

SRC ENERGY

**WELD COUNTY (NAD83, TRUE NORTH)
5N-66W-29 SANFORD 21-29 PAD
SANFORD 32N-30B-M**

**Wellbore #1
Design #1**

Anticollision Report

25 October, 2018

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	15,571.21	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-29 Offsets Incomplete (Need 2 Directionals)						
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	2,115.57	2,007.61	1,079.00	1,054.19	43.487	CC, ES
BENSLER J 29-17D - Noble PR Well - Actual Ensign Su	4,000.00	3,804.19	1,197.16	1,162.91	34.954	SF
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,071.35	4,135.07	533.13	500.45	16.313	CC
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,100.00	4,159.61	533.29	500.38	16.202	ES
BENSLER J 29-18D - Noble SI Well - Actual Ensign Surv	4,300.00	4,316.41	544.91	510.37	15.777	SF
BENSLER J 29-21D (Need Directional Surveys) - Noble	2,201.41	2,135.00	944.71	862.12	11.439	CC
BENSLER J 29-21D (Need Directional Surveys) - Noble	2,600.00	2,518.00	951.14	854.36	9.828	ES
BENSLER J 29-21D (Need Directional Surveys) - Noble	4,800.00	4,631.93	1,187.66	1,010.34	6.698	SF
BENSLER J 29-27D (Need Directional Surveys) - Noble	2,270.07	2,200.98	989.40	904.38	11.638	CC
BENSLER J 29-27D (Need Directional Surveys) - Noble	2,700.00	2,614.09	996.54	896.15	9.927	ES
BENSLER J 29-27D (Need Directional Surveys) - Noble	4,700.00	4,535.84	1,196.62	1,022.87	6.887	SF
CARLSON 10-29 - Noble SI Well - Actual VES Surveys	7,151.67	6,891.25	997.40	962.52	28.594	CC, ES
CARLSON 10-29 - Noble SI Well - Actual VES Surveys	7,200.00	6,934.99	998.60	963.57	28.513	SF
HSR-MILLARD 9-29 - Noble SI Well - No Surveys						Out of range
KAMMERZELL 1 - XOG P&A Well - No Surveys	9,648.90	7,207.63	874.32	578.24	2.953	CC, ES
KAMMERZELL 1 - XOG P&A Well - No Surveys	9,700.00	7,207.70	875.81	578.66	2.947	SF
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	200.00	201.00	176.71	166.33	17.036	CC
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	400.00	401.07	178.88	161.82	10.486	ES
KAMMERZELL 29-3H6 - Noble SI Well - No Surveys	1,000.00	1,009.54	244.15	204.88	6.218	SF
KAMMERZELL 29-4H6 - XOG PR Well - No Surveys	9,430.52	7,206.68	734.76	441.84	2.508	CC, ES, SF
KAMMERZELL 29-5 - XOG PR Well - No Surveys						Out of range
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	3,576.27	3,460.07	581.66	448.63	4.372	CC
KAMMERZELL 29-6H6 - Noble SI Well - No Surveys	8,062.42	7,161.39	693.27	417.86	2.517	ES, SF
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	0.00	13.80	1,080.98			
KAMMERZELL J 29-19 - Noble SI Well - Actual Coretech	9,100.00	7,160.65	1,186.60	1,134.43	22.744	SF
UPRC 29-7C - Noble T/A Well - No Surveys	5,673.65	5,474.40	330.45	118.28	1.557	CC
UPRC 29-7C - Noble T/A Well - No Surveys	5,800.00	5,604.20	332.30	115.10	1.530	ES
UPRC 29-7C - Noble T/A Well - No Surveys	5,900.00	5,708.11	336.34	115.19	1.521	SF
UPRC 29-8C - Noble SI Well - No Surveys						Out of range
UPV 29-1H6 - Noble PR Well - No Surveys						Out of range
UPV 29-2H6 - Noble SI Well - No Surveys	2,448.19	2,359.13	1,012.43	921.31	11.110	CC
UPV 29-2H6 - Noble SI Well - No Surveys	2,900.00	2,806.74	1,020.14	912.24	9.454	ES
UPV 29-2H6 - Noble SI Well - No Surveys	4,700.00	4,522.84	1,189.13	1,015.48	6.848	SF

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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 32N-30B-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	201.01	234.08	226.51	30.906	CC
SANFORD 1C-27-XR - Wellbore #1 - Design #1	203.31	204.37	234.09	226.51	30.897	ES
SANFORD 1C-27-XR - Wellbore #1 - Design #1	400.00	401.39	237.54	229.77	30.574	SF
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	219.42	211.85	28.970	CC
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	202.79	203.79	219.42	211.85	28.963	ES
SANFORD 1N-27A-XR - Wellbore #1 - Design #1	300.00	300.70	219.96	212.30	28.734	SF
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	200.00	201.00	249.90	242.32	32.993	CC, ES
SANFORD 1N-27B-XR - Wellbore #1 - Design #1	300.00	294.75	251.83	244.17	32.887	SF
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	312.08	317.33	204.59	196.93	26.680	CC, ES
SANFORD 1N-27C-XR - Wellbore #1 - Design #1	400.00	404.86	205.98	198.21	26.513	SF
SANFORD 26C-27-XR - Wellbore #1 - Design #1	200.00	201.00	300.09	292.52	39.620	CC, ES
SANFORD 26C-27-XR - Wellbore #1 - Design #1	300.00	292.19	302.00	294.35	39.447	SF
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	200.00	201.00	282.98	275.41	37.361	CC, ES
SANFORD 26N-27A-XR - Wellbore #1 - Design #1	300.00	292.74	284.88	277.22	37.209	SF
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	200.00	201.00	266.12	258.54	35.135	CC, ES
SANFORD 26N-27C-XR - Wellbore #1 - Design #1	300.00	293.12	268.04	260.38	35.008	SF
SANFORD 30C-30-M - Wellbore #1 - Design #1	200.00	200.00	240.07	232.49	31.697	CC, ES
SANFORD 30C-30-M - Wellbore #1 - Design #1	300.00	297.30	241.02	233.36	31.473	SF
SANFORD 30N-30A-M - Wellbore #1 - Design #1	200.00	200.00	220.03	212.46	29.052	CC, ES
SANFORD 30N-30A-M - Wellbore #1 - Design #1	300.00	297.69	220.95	213.29	28.852	SF
SANFORD 30N-30B-M - Wellbore #1 - Design #1	200.00	200.00	260.11	252.53	34.343	CC, ES
SANFORD 30N-30B-M - Wellbore #1 - Design #1	300.00	295.80	261.30	253.64	34.124	SF
SANFORD 31N-30B-M - Wellbore #1 - Design #1	372.73	376.55	98.82	91.09	12.776	CC, ES
SANFORD 31N-30B-M - Wellbore #1 - Design #1	15,571.56	15,404.95	1,099.79	825.33	4.007	SF
SANFORD 31N-30C-M - Wellbore #1 - Design #1	312.81	315.17	119.35	111.68	15.561	CC, ES
SANFORD 31N-30C-M - Wellbore #1 - Design #1	500.00	505.88	121.99	114.06	15.373	SF
SANFORD 32N-30C-M - Wellbore #1 - Design #1	794.01	796.52	14.59	5.85	1.669	CC
SANFORD 32N-30C-M - Wellbore #1 - Design #1	15,571.56	15,598.44	225.42	-47.06	0.827	Level 1, ES, SF
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	200.38	201.38	151.36	143.79	19.983	CC, ES
SANFORD 40N-27B-XR - Wellbore #1 - Design #1	7,488.17	7,663.12	224.43	181.75	5.257	SF
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	7,791.06	7,497.93	67.50	23.97	1.551	CC, ES
SANFORD 40N-27C-XR - Wellbore #1 - Design #1	7,800.00	7,489.65	67.59	23.98	1.550	SF
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	322.15	327.52	191.53	183.85	24.943	CC, ES
SANFORD 41N-27B-XR - Wellbore #1 - Design #1	500.00	507.56	194.81	186.88	24.565	SF
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	311.08	315.40	179.67	172.00	23.434	CC, ES
SANFORD 41N-27C-XR - Wellbore #1 - Design #1	500.00	508.00	182.49	174.56	23.009	SF
SANFORD 4C-30-M - Wellbore #1 - Design #1	300.00	301.77	159.76	152.10	20.862	CC, ES
SANFORD 4C-30-M - Wellbore #1 - Design #1	400.00	403.39	161.27	153.50	20.741	SF
SANFORD 4N-30A-M - Wellbore #1 - Design #1	300.00	301.69	139.67	132.02	18.240	CC, ES
SANFORD 4N-30A-M - Wellbore #1 - Design #1	400.00	403.25	141.04	133.26	18.140	SF
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	179.97	172.39	23.761	CC
SANFORD 4N-30B-M - Wellbore #1 - Design #1	200.00	200.00	179.97	172.39	23.761	ES
SANFORD 4N-30B-M - Wellbore #1 - Design #1	300.00	300.28	180.28	172.62	23.540	SF
SANFORD 4N-30C-M - Wellbore #1 - Design #1	200.00	200.00	199.99	192.42	26.406	CC
SANFORD 4N-30C-M - Wellbore #1 - Design #1	201.74	201.74	199.99	192.42	26.402	ES
SANFORD 4N-30C-M - Wellbore #1 - Design #1	300.00	298.73	200.70	193.04	26.207	SF
SANFORD 5C-30-M - Wellbore #1 - Design #1	634.94	641.78	56.69	48.49	6.913	CC
SANFORD 5C-30-M - Wellbore #1 - Design #1	700.00	707.72	56.80	48.43	6.781	ES
SANFORD 5C-30-M - Wellbore #1 - Design #1	15,571.56	15,664.90	735.38	464.14	2.711	SF
SANFORD 5N-30B-M - Wellbore #1 - Design #1	697.78	702.83	35.92	27.55	4.292	CC
SANFORD 5N-30B-M - Wellbore #1 - Design #1	800.00	805.85	36.19	27.47	4.151	ES
SANFORD 5N-30B-M - Wellbore #1 - Design #1	15,571.56	15,486.88	439.68	165.27	1.602	SF
SANFORD 5N-30C-M - Wellbore #1 - Design #1	452.64	457.64	78.46	70.62	10.003	CC, ES

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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 32N-30B-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 5N-30C-M - Wellbore #1 - Design #1	15,571.56	15,499.33	881.30	606.64	3.209	SF
SANFORD 8C-27-XR - Wellbore #1 - Design #1	300.00	303.41	169.59	161.93	22.151	CC, ES
SANFORD 8C-27-XR - Wellbore #1 - Design #1	600.00	608.72	176.56	168.40	21.658	SF
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	300.00	302.74	161.13	153.47	21.046	CC, ES
SANFORD 8N-27B-XR - Wellbore #1 - Design #1	7,200.00	7,801.23	656.39	613.92	15.455	SF
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	300.00	302.07	155.08	147.43	20.257	CC, ES
SANFORD 8N-27C-XR - Wellbore #1 - Design #1	7,500.00	7,667.27	454.14	412.34	10.867	SF
5N-66W-30 Offsets Incomplete						
HOMYAK 1 - XOG PR Well - No Surveys						Out of range
HOMYAK 2 - XOG SI Well - No Surveys	10,898.57	7,202.40	546.65	231.68	1.736	CC
HOMYAK 2 - XOG SI Well - No Surveys	10,900.00	7,202.40	546.66	231.68	1.736	ES, SF
LUNDVALL 3 - Noble PR Well - No Surveys	14,974.90	7,233.16	580.77	198.45	1.519	CC, ES, SF
LUNDVALL 30-11H6 - Noble SI Well - No Surveys	13,828.20	7,203.54	899.58	537.19	2.482	CC, ES
LUNDVALL 30-11H6 - Noble SI Well - No Surveys	13,900.00	7,203.64	902.44	538.54	2.480	SF
LUNDVALL 4 - Noble PR Well - No Surveys						Out of range
LUNDVALL J 30-19 - Noble PR Well - Actual Ensign Sur						Out of range
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys	12,337.46	7,205.57	722.91	384.78	2.138	CC, ES
MOSSBERG PMJ 30-10 - Noble PR Well - No Surveys	12,400.00	7,205.48	725.61	386.08	2.137	SF
MOSSBERG-PM J30-9 - Noble PR Well - No Surveys	11,002.31	7,202.54	845.11	528.50	2.669	CC, ES, SF
RICKS-PM J30-12 - Noble PR Well - No Surveys	14,989.83	7,217.18	716.15	334.15	1.875	CC
RICKS-PM J30-12 - Noble PR Well - No Surveys	15,000.00	7,217.19	716.22	333.95	1.874	ES, SF
STEVE J 30-4J - Noble PR Well - Actual Multishot Survey						Out of range
STEVE J 30-6 - Noble PR Well - Actual Multishot Survey	13,521.00	7,434.49	584.60	438.95	4.014	CC, ES, SF

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	499.68	488.61	488.61	3.49	14.99	-65.88	38.30	1,201.93	1,198.03	1,178.76	19.26	62.191		
600.00	599.13	586.35	586.35	3.59	15.49	-66.41	38.44	1,201.98	1,193.84	1,173.98	19.87	60.094		
700.00	698.15	683.10	683.10	3.73	15.49	-67.11	38.51	1,202.21	1,188.55	1,168.54	20.01	59.395		
800.00	796.63	780.52	780.51	3.91	15.50	-67.98	38.51	1,202.59	1,182.22	1,162.02	20.20	58.523		
900.00	894.44	878.33	878.33	4.14	15.52	-69.03	38.43	1,203.06	1,174.93	1,154.50	20.44	57.492		
1,000.00	991.46	979.21	979.21	4.42	15.54	-70.30	38.22	1,203.35	1,166.58	1,145.85	20.73	56.279		
1,100.00	1,087.69	1,077.19	1,077.19	4.75	15.56	-71.63	37.91	1,203.38	1,157.40	1,136.32	21.07	54.919		
1,200.00	1,183.78	1,172.90	1,172.90	5.12	15.58	-72.88	37.77	1,203.37	1,148.61	1,127.15	21.46	53.521		
1,300.00	1,279.86	1,267.99	1,267.99	5.51	15.61	-74.13	37.44	1,203.46	1,140.49	1,118.61	21.88	52.123		
1,400.00	1,375.95	1,381.61	1,381.54	5.93	15.65	-75.51	34.04	1,203.46	1,132.41	1,110.08	22.33	50.706		
1,500.00	1,472.04	1,481.33	1,480.97	6.36	15.70	-76.51	26.55	1,203.39	1,123.80	1,100.99	22.81	49.272		
1,600.00	1,568.13	1,601.50	1,600.57	6.81	15.76	-77.61	14.88	1,203.23	1,115.12	1,091.81	23.30	47.852		
1,700.00	1,664.21	1,707.27	1,705.35	7.27	15.83	-78.41	0.62	1,201.55	1,104.27	1,080.45	23.82	46.359		
1,800.00	1,760.30	1,795.82	1,792.73	7.74	15.90	-78.96	-13.76	1,201.22	1,094.11	1,069.75	24.36	44.906		
1,900.00	1,856.39	1,863.23	1,859.18	8.01	15.96	-79.34	-25.03	1,202.36	1,085.94	1,061.44	24.50	44.324		
2,000.00	1,952.48	1,928.75	1,923.77	8.07	16.02	-79.72	-35.59	1,205.42	1,080.88	1,056.25	24.64	43.873		
2,100.00	2,048.56	1,996.40	1,990.37	8.17	16.09	-80.09	-46.12	1,210.70	1,079.03	1,054.25	24.78	43.536		
2,115.57	2,063.53	2,007.61	2,001.42	8.19	16.10	-80.15	-47.75	1,211.73	1,079.00	1,054.19	24.81	43.487	CC, ES	
2,200.00	2,144.65	2,071.40	2,064.30	8.28	16.16	-80.55	-56.35	1,218.19	1,079.92	1,054.96	24.96	43.265		
2,300.00	2,240.74	2,161.73	2,153.24	8.42	16.27	-81.11	-68.28	1,228.47	1,082.41	1,057.21	25.20	42.956		

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Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 517-SRC Energy_ISCWSA REV 2 MWD												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,400.00	2,336.83	2,252.26	2,242.09	8.58	16.39	-81.58	-81.54	1,239.72	1,085.57	1,060.10	25.47	42.614	
2,500.00	2,432.91	2,331.45	2,319.43	8.75	16.52	-81.91	-94.10	1,251.19	1,090.38	1,064.63	25.75	42.348	
2,600.00	2,529.00	2,419.94	2,405.66	8.95	16.67	-82.27	-107.85	1,265.47	1,096.87	1,070.80	26.08	42.064	
2,700.00	2,625.09	2,520.43	2,503.43	9.16	16.86	-82.62	-124.35	1,281.82	1,103.29	1,076.81	26.48	41.662	
2,800.00	2,721.18	2,614.74	2,594.61	9.39	17.07	-82.84	-141.59	1,298.62	1,110.57	1,083.66	26.91	41.272	
2,900.00	2,817.26	2,713.93	2,690.23	9.63	17.32	-82.99	-160.99	1,316.53	1,117.68	1,090.29	27.40	40.796	
3,000.00	2,913.35	2,811.66	2,783.93	9.89	17.61	-83.05	-181.68	1,335.05	1,125.12	1,097.19	27.93	40.285	
3,100.00	3,009.44	2,905.93	2,874.14	10.15	17.90	-83.08	-202.02	1,353.30	1,132.80	1,104.34	28.47	39.795	
3,200.00	3,105.53	3,025.55	2,989.12	10.43	18.26	-83.19	-226.84	1,375.07	1,139.62	1,110.50	29.12	39.130	
3,300.00	3,201.61	3,122.07	3,082.06	10.73	18.57	-83.30	-246.60	1,392.02	1,145.98	1,116.27	29.71	38.567	
3,400.00	3,297.70	3,225.49	3,181.79	11.03	18.91	-83.45	-267.17	1,410.09	1,152.46	1,122.11	30.35	37.977	
3,500.00	3,393.79	3,317.90	3,271.36	11.34	19.21	-83.67	-283.91	1,425.48	1,158.80	1,127.87	30.93	37.468	
3,600.00	3,489.88	3,396.71	3,347.81	11.66	19.47	-83.90	-297.11	1,439.30	1,166.46	1,135.00	31.46	37.075	
3,700.00	3,585.96	3,502.64	3,450.54	11.98	19.84	-84.21	-314.06	1,458.83	1,175.27	1,143.12	32.15	36.555	
3,800.00	3,682.05	3,606.00	3,550.86	12.32	20.20	-84.52	-330.85	1,477.15	1,183.34	1,150.49	32.85	36.026	
3,900.00	3,778.14	3,720.96	3,662.42	12.66	20.63	-84.82	-350.89	1,496.38	1,190.01	1,156.39	33.63	35.390	
4,000.00	3,874.23	3,804.19	3,743.27	13.00	20.95	-85.06	-364.83	1,510.41	1,197.16	1,162.91	34.25	34.954 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 Offsets Incomplete (Need 2 Directionals) - BENSLE J 29-18D - Noble SI Well - Actual Ens													Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 554-SRC Energy_ISCWSA REV 2 MWD													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	3.28	3.28	88.02	34.99	1,013.03	1,013.69					
100.00	100.00	89.00	89.00	3.28	3.56	88.02	34.99	1,013.03	1,013.63	1,006.00	7.63	132.855		
200.00	200.00	189.00	189.00	3.31	5.73	88.02	34.99	1,013.03	1,013.63	1,003.81	9.82	103.180		
300.00	300.00	289.00	289.00	3.35	8.87	-65.50	34.99	1,013.03	1,013.45	1,000.45	13.01	77.924		
400.00	399.93	388.93	388.93	3.40	12.23	-65.71	34.99	1,013.03	1,012.01	995.59	16.42	61.630		
500.00	499.68	488.54	488.54	3.49	14.99	-66.12	35.01	1,013.03	1,009.16	989.90	19.26	52.390		
600.00	599.13	588.14	588.14	3.59	16.12	-66.76	35.26	1,013.04	1,004.99	984.48	20.51	49.010		
700.00	698.15	688.42	688.42	3.73	16.13	-67.59	35.18	1,012.99	999.48	978.83	20.65	48.399		
800.00	796.63	786.17	786.17	3.91	16.14	-68.61	34.95	1,012.92	992.83	971.99	20.84	47.641		
900.00	894.44	883.81	883.81	4.14	16.15	-69.85	34.88	1,012.90	985.28	964.21	21.08	46.751		
1,000.00	991.46	982.33	982.33	4.42	16.17	-71.31	34.59	1,012.82	976.91	955.54	21.37	45.721		
1,100.00	1,087.69	1,079.73	1,079.73	4.75	16.19	-72.86	33.98	1,012.65	967.98	946.27	21.71	44.578		
1,200.00	1,183.78	1,176.59	1,176.59	5.12	16.22	-74.36	33.35	1,012.40	959.51	937.40	22.10	43.410		
1,300.00	1,279.86	1,273.55	1,273.55	5.51	16.25	-75.89	32.66	1,012.10	951.67	929.14	22.53	42.246		
1,400.00	1,375.95	1,370.68	1,370.67	5.93	16.28	-77.42	31.67	1,011.77	944.46	921.49	22.98	41.106		
1,500.00	1,472.04	1,472.38	1,472.36	6.36	16.32	-79.05	30.51	1,011.12	937.65	914.20	23.45	39.980		
1,600.00	1,568.13	1,585.98	1,585.93	6.81	16.37	-80.90	29.09	1,009.42	930.84	906.89	23.94	38.874		
1,700.00	1,664.21	1,730.37	1,730.06	7.27	16.45	-83.22	24.30	1,002.36	921.00	896.59	24.41	37.724		
1,800.00	1,760.30	1,858.05	1,856.99	7.74	16.53	-85.18	15.93	991.57	907.58	882.70	24.88	36.479		
1,900.00	1,856.39	1,996.21	1,993.70	8.01	16.64	-87.46	5.81	974.46	891.05	866.17	24.87	35.822		
2,000.00	1,952.48	2,125.70	2,120.79	8.07	16.78	-89.55	-7.99	953.89	870.79	845.91	24.88	35.001		
2,100.00	2,048.56	2,267.63	2,258.58	8.17	16.98	-91.93	-26.73	925.59	846.53	821.72	24.80	34.132		
2,200.00	2,144.65	2,370.63	2,357.61	8.28	17.17	-93.67	-43.19	902.61	819.78	794.84	24.94	32.872		
2,300.00	2,240.74	2,456.82	2,440.35	8.42	17.33	-95.03	-59.32	884.63	793.72	768.52	25.20	31.496		
2,400.00	2,336.83	2,573.95	2,552.67	8.58	17.57	-96.97	-81.81	860.18	768.09	742.82	25.28	30.389		
2,500.00	2,432.91	2,651.62	2,627.04	8.75	17.76	-98.43	-96.01	842.89	742.19	716.55	25.65	28.938		
2,600.00	2,529.00	2,781.43	2,750.52	8.95	18.14	-101.24	-119.30	810.37	714.72	689.08	25.64	27.877		
2,700.00	2,625.09	2,871.51	2,835.69	9.16	18.43	-103.40	-135.89	786.19	686.75	660.79	25.96	26.458		
2,800.00	2,721.18	2,950.79	2,910.90	9.39	18.68	-105.44	-150.05	765.52	660.86	634.48	26.39	25.046		
2,900.00	2,817.26	3,037.15	2,993.47	9.63	18.95	-107.69	-165.28	745.31	638.30	611.52	26.77	23.840		
3,000.00	2,913.35	3,142.02	3,093.44	9.89	19.33	-110.32	-186.67	721.99	616.04	589.02	27.02	22.798		
3,100.00	3,009.44	3,227.70	3,174.95	10.15	19.66	-112.73	-203.70	701.81	594.42	566.96	27.46	21.643		
3,200.00	3,105.53	3,310.55	3,254.20	10.43	19.97	-115.37	-217.72	682.11	576.14	548.19	27.95	20.613		
3,300.00	3,201.61	3,393.79	3,334.16	10.73	20.27	-118.19	-230.47	662.85	561.22	532.77	28.45	19.725		
3,400.00	3,297.70	3,477.18	3,414.78	11.03	20.57	-120.98	-243.00	645.60	549.91	520.94	28.97	18.984		
3,500.00	3,393.79	3,569.23	3,504.16	11.34	20.90	-124.06	-256.27	628.06	541.83	512.39	29.44	18.405		
3,600.00	3,489.88	3,646.81	3,579.69	11.66	21.17	-126.67	-267.02	613.95	536.62	506.60	30.02	17.877		
3,639.20	3,527.55	3,674.84	3,607.16	11.78	21.26	-127.59	-270.31	609.51	536.16	505.91	30.25	17.724		
3,700.00	3,585.96	3,733.15	3,664.46	11.98	21.44	-129.45	-276.92	600.97	536.53	505.99	30.54	17.567		
3,800.00	3,682.05	3,844.02	3,773.10	12.32	21.81	-133.04	-290.57	583.63	537.26	506.27	30.99	17.338		
3,900.00	3,778.14	3,964.58	3,889.31	12.66	22.35	-137.58	-308.32	557.04	535.26	503.78	31.48	17.003		
4,000.00	3,874.23	4,064.52	3,984.80	13.00	22.84	-141.59	-324.40	532.32	533.80	501.65	32.16	16.600		
4,071.35	3,942.78	4,135.07	4,051.90	13.25	23.20	-144.43	-336.95	514.50	533.13	500.45	32.68	16.313 CC		
4,100.00	3,970.32	4,159.61	4,075.25	13.35	23.32	-145.42	-341.28	508.32	533.29	500.38	32.92	16.202 ES		
4,200.00	4,066.40	4,240.47	4,152.43	13.71	23.72	-148.65	-354.72	488.32	536.58	502.84	33.74	15.902		
4,300.00	4,162.49	4,316.41	4,225.56	14.07	24.06	-151.51	-365.43	470.87	544.91	510.37	34.54	15.777 SF		
4,400.00	4,258.58	4,403.30	4,310.14	14.44	24.43	-154.43	-375.16	453.54	558.16	522.87	35.29	15.816		
4,500.00	4,354.67	4,493.99	4,398.53	14.81	24.79	-157.28	-385.76	436.23	572.75	536.71	36.03	15.896		
4,600.00	4,450.75	4,576.44	4,479.56	15.18	25.09	-159.49	-393.43	423.08	590.81	554.11	36.70	16.098		
4,700.00	4,546.84	4,668.38	4,570.50	15.56	25.37	-161.50	-400.40	411.63	611.18	573.84	37.34	16.369		
4,800.00	4,642.93	4,757.04	4,658.60	15.94	25.60	-163.03	-406.36	403.58	632.60	594.68	37.91	16.686		
4,900.00	4,739.02	4,847.13	4,748.34	16.32	25.80	-164.34	-410.72	396.97	655.93	617.47	38.46	17.056		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
5,000.00	4,835.10	4,951.24	4,852.16	16.71	26.02	-165.61	-415.62	390.94	679.44	640.41	39.03	17.409	
5,100.00	4,931.19	5,051.10	4,951.80	17.10	26.21	-166.58	-420.96	387.19	702.14	662.58	39.56	17.749	
5,200.00	5,027.28	5,140.57	5,041.13	17.49	26.37	-167.32	-425.32	384.84	725.21	685.16	40.04	18.111	
5,300.00	5,123.37	5,209.19	5,109.71	17.88	26.48	-167.81	-426.83	383.18	750.83	710.40	40.43	18.573	
5,400.00	5,219.45	5,298.75	5,199.25	18.28	26.59	-168.29	-426.27	381.91	778.89	738.03	40.86	19.062	
5,500.00	5,315.54	5,396.71	5,297.21	18.67	26.70	-168.70	-425.27	381.62	807.10	765.78	41.31	19.535	
5,600.00	5,411.63	5,495.66	5,396.15	19.07	26.81	-169.05	-424.45	381.83	835.03	793.26	41.77	19.990	
5,700.00	5,507.72	5,596.61	5,497.10	19.47	26.93	-169.39	-424.10	382.14	862.51	820.27	42.24	20.419	
5,800.00	5,603.80	5,696.75	5,597.24	19.88	27.04	-169.71	-424.27	382.62	889.50	846.80	42.70	20.833	
5,900.00	5,699.89	5,796.15	5,696.62	20.28	27.14	-169.89	-424.30	384.84	916.14	873.00	43.14	21.236	
6,000.00	5,795.98	5,895.05	5,795.48	20.69	27.25	-170.03	-424.50	387.55	942.50	898.91	43.58	21.627	
6,100.00	5,892.07	5,993.72	5,894.13	21.09	27.38	-170.34	-425.76	387.61	968.63	924.57	44.06	21.985	
6,200.00	5,988.15	6,087.78	5,988.18	21.50	27.52	-170.68	-427.22	386.75	994.81	950.27	44.54	22.337	
6,300.00	6,084.24	6,183.81	6,084.20	21.91	27.67	-170.98	-428.42	386.24	1,021.19	976.17	45.02	22.684	
6,400.00	6,180.33	6,285.07	6,185.45	22.32	27.81	-171.25	-429.82	386.20	1,047.32	1,001.81	45.51	23.011	
6,500.00	6,276.42	6,380.92	6,281.28	22.74	27.95	-171.48	-431.33	386.57	1,073.16	1,027.17	45.99	23.336	
6,600.00	6,372.51	6,472.29	6,372.65	23.15	28.08	-171.69	-432.43	386.90	1,099.38	1,052.93	46.45	23.670	
6,700.00	6,468.59	6,567.69	6,468.04	23.56	28.21	-171.89	-433.24	387.22	1,125.94	1,079.02	46.92	23.997	
6,800.00	6,565.18	6,665.42	6,565.77	23.88	28.35	155.64	-434.08	387.69	1,150.37	1,103.03	47.34	24.298	
6,900.00	6,661.43	6,762.64	6,662.99	24.11	28.49	125.08	-434.94	388.30	1,169.79	1,122.11	47.68	24.532	
7,000.00	6,754.97	6,856.99	6,757.33	24.30	28.62	107.99	-435.81	389.01	1,184.36	1,136.42	47.94	24.703	
7,100.00	6,843.50	6,942.12	6,842.46	24.44	28.75	99.52	-436.50	389.56	1,195.03	1,146.91	48.12	24.835	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	87.97	36.80	1,037.27	1,037.98				
100.00	100.00	89.00	89.00	3.28	3.56	87.97	36.80	1,037.27	1,037.92	1,030.29	7.63	136.038	
200.00	200.00	189.00	189.00	3.31	5.73	87.97	36.80	1,037.27	1,037.92	1,028.10	9.82	105.652	
300.00	300.00	289.00	289.00	3.35	8.87	-65.56	36.80	1,037.27	1,037.74	1,024.74	13.01	79.792	
400.00	399.93	388.93	388.93	3.40	12.23	-65.76	36.80	1,037.27	1,036.30	1,019.88	16.42	63.109	
500.00	499.68	488.68	488.68	3.49	15.66	-66.16	36.80	1,037.27	1,033.45	1,013.52	19.93	51.843	
600.00	599.13	588.13	588.13	3.59	19.12	-66.77	36.80	1,037.27	1,029.26	1,005.76	23.50	43.795	
700.00	698.15	687.15	687.15	3.73	22.58	-67.58	36.80	1,037.27	1,023.82	996.71	27.11	37.770	
800.00	796.63	785.63	785.63	3.91	26.04	-68.59	36.80	1,037.27	1,017.25	986.51	30.74	33.091	
900.00	894.44	883.44	883.44	4.14	29.48	-69.81	36.80	1,037.27	1,009.72	975.32	34.40	29.348	
1,000.00	991.46	980.46	980.46	4.42	32.90	-71.24	36.80	1,037.27	1,001.44	963.34	38.10	26.287	
1,100.00	1,087.69	1,076.69	1,076.69	4.75	36.30	-72.76	36.80	1,037.27	992.74	950.93	41.82	23.741	
1,200.00	1,183.78	1,172.78	1,172.78	5.12	39.69	-74.25	36.80	1,037.27	984.59	939.01	45.57	21.605	
1,300.00	1,279.86	1,268.86	1,268.86	5.51	43.08	-75.75	36.80	1,037.27	977.14	927.79	49.36	19.797	
1,400.00	1,375.95	1,364.95	1,364.95	5.93	46.48	-77.28	36.80	1,037.27	970.44	917.27	53.17	18.251	
1,500.00	1,472.04	1,461.04	1,461.04	6.36	49.87	-78.82	36.80	1,037.27	964.48	907.47	57.00	16.919	
1,600.00	1,568.13	1,557.13	1,557.13	6.81	53.27	-80.38	36.80	1,037.27	959.28	898.43	60.86	15.763	
1,700.00	1,664.21	1,653.21	1,653.21	7.27	56.67	-81.96	36.80	1,037.27	954.86	890.14	64.72	14.754	
1,800.00	1,760.30	1,749.30	1,749.30	7.74	60.07	-83.55	36.80	1,037.27	951.23	882.64	68.59	13.868	
1,900.00	1,856.39	1,845.39	1,845.39	8.01	63.47	-85.15	36.80	1,037.27	948.39	876.34	72.05	13.162	
2,000.00	1,952.48	1,941.48	1,941.48	8.07	66.87	-86.75	36.80	1,037.27	946.36	870.83	75.53	12.530	
2,100.00	2,048.56	2,037.56	2,037.56	8.17	70.27	-88.36	36.80	1,037.27	945.13	866.11	79.02	11.960	
2,200.00	2,144.65	2,133.65	2,133.65	8.28	73.67	-89.98	36.80	1,037.27	944.71	862.17	82.54	11.446	
2,201.41	2,146.00	2,135.00	2,135.00	8.28	73.72	-90.00	36.80	1,037.27	944.71	862.12	82.59	11.439 CC	
2,300.00	2,240.74	2,229.74	2,229.74	8.42	77.07	-91.59	36.80	1,037.27	945.10	859.03	86.07	10.981	
2,400.00	2,336.83	2,325.83	2,325.83	8.58	80.47	-93.20	36.80	1,037.27	946.31	856.69	89.62	10.559	
2,500.00	2,432.91	2,421.91	2,421.91	8.75	83.88	-94.81	36.80	1,037.27	948.32	855.13	93.19	10.176	
2,600.00	2,529.00	2,518.00	2,518.00	8.95	87.28	-96.41	36.80	1,037.27	951.14	854.36	96.77	9.828 ES	
2,700.00	2,625.09	2,614.09	2,614.09	9.16	90.68	-98.00	36.80	1,037.27	954.75	854.38	100.37	9.512	
2,800.00	2,721.18	2,710.18	2,710.18	9.39	94.08	-99.57	36.80	1,037.27	959.15	855.17	103.98	9.224	
2,900.00	2,817.26	2,806.26	2,806.26	9.63	97.49	-101.13	36.80	1,037.27	964.32	856.72	107.60	8.962	
3,000.00	2,913.35	2,902.35	2,902.35	9.89	100.89	-102.68	36.80	1,037.27	970.26	859.03	111.23	8.723	
3,100.00	3,009.44	3,001.56	2,998.44	10.15	104.40	-104.21	36.80	1,037.27	976.95	861.97	114.97	8.497	
3,200.00	3,105.53	3,105.47	3,094.53	10.43	108.08	-105.71	36.80	1,037.27	984.37	865.47	118.90	8.279	
3,300.00	3,201.61	3,209.39	3,190.61	10.73	111.76	-107.20	36.80	1,037.27	992.51	869.68	122.82	8.081	
3,400.00	3,297.70	3,286.70	3,286.70	11.03	114.50	-108.66	36.80	1,037.27	1,001.34	875.53	125.82	7.959	
3,500.00	3,393.79	3,382.79	3,382.79	11.34	117.90	-110.09	36.80	1,037.27	1,010.86	881.39	129.48	7.807	
3,600.00	3,489.88	3,478.88	3,478.88	11.66	121.31	-111.50	36.80	1,037.27	1,021.05	887.91	133.14	7.669	
3,700.00	3,585.96	3,574.96	3,574.96	11.98	124.71	-112.89	36.80	1,037.27	1,031.88	895.06	136.81	7.542	
3,800.00	3,682.05	3,671.05	3,671.05	12.32	128.11	-114.24	36.80	1,037.27	1,043.33	902.84	140.48	7.427	
3,900.00	3,778.14	3,767.14	3,767.14	12.66	131.52	-115.57	36.80	1,037.27	1,055.38	911.22	144.16	7.321	
4,000.00	3,874.23	3,863.23	3,863.23	13.00	134.92	-116.87	36.80	1,037.27	1,068.01	920.18	147.84	7.224	
4,100.00	3,970.32	3,959.32	3,959.32	13.35	138.32	-118.14	36.80	1,037.27	1,081.21	929.69	151.52	7.136	
4,200.00	4,066.40	4,055.40	4,055.40	13.71	141.73	-119.38	36.80	1,037.27	1,094.95	939.75	155.20	7.055	
4,300.00	4,162.49	4,151.49	4,151.49	14.07	145.13	-120.59	36.80	1,037.27	1,109.21	950.33	158.88	6.981	
4,400.00	4,258.58	4,247.58	4,247.58	14.44	148.54	-121.77	36.80	1,037.27	1,123.97	961.41	162.57	6.914	
4,500.00	4,354.67	4,343.67	4,343.67	14.81	151.94	-122.93	36.80	1,037.27	1,139.22	972.96	166.25	6.852	
4,600.00	4,450.75	4,439.75	4,439.75	15.18	155.34	-124.05	36.80	1,037.27	1,154.92	984.98	169.94	6.796	
4,700.00	4,546.84	4,535.84	4,535.84	15.56	158.75	-125.14	36.80	1,037.27	1,171.08	997.45	173.63	6.745	
4,800.00	4,642.93	4,631.93	4,631.93	15.94	162.15	-126.21	36.80	1,037.27	1,187.66	1,010.34	177.32	6.698 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	87.90	39.72	1,085.75	1,086.53				
100.00	100.00	89.00	89.00	3.28	3.56	87.90	39.72	1,085.75	1,086.47	1,078.84	7.63	142.402	
200.00	200.00	189.00	189.00	3.31	5.73	87.90	39.72	1,085.75	1,086.47	1,076.65	9.82	110.595	
300.00	300.00	289.00	289.00	3.35	8.87	-65.62	39.72	1,085.75	1,086.29	1,073.29	13.01	83.525	
400.00	399.93	388.93	388.93	3.40	12.23	-65.81	39.72	1,085.75	1,084.86	1,068.44	16.42	66.066	
500.00	499.68	488.68	488.68	3.49	15.66	-66.20	39.72	1,085.75	1,082.02	1,062.08	19.93	54.279	
600.00	599.13	588.13	588.13	3.59	19.12	-66.78	39.72	1,085.75	1,077.83	1,054.32	23.50	45.862	
700.00	698.15	687.15	687.15	3.73	22.58	-67.56	39.72	1,085.75	1,072.38	1,045.28	27.11	39.562	
800.00	796.63	785.63	785.63	3.91	26.04	-68.54	39.72	1,085.75	1,065.80	1,035.06	30.74	34.670	
900.00	894.44	883.44	883.44	4.14	29.48	-69.71	39.72	1,085.75	1,058.25	1,023.85	34.40	30.759	
1,000.00	991.46	980.46	980.46	4.42	32.90	-71.07	39.72	1,085.75	1,049.91	1,011.82	38.10	27.560	
1,100.00	1,087.69	1,076.69	1,076.69	4.75	36.30	-72.53	39.72	1,085.75	1,041.12	999.31	41.82	24.898	
1,200.00	1,183.78	1,172.78	1,172.78	5.12	39.69	-73.94	39.72	1,085.75	1,032.84	987.27	45.57	22.665	
1,300.00	1,279.86	1,268.86	1,268.86	5.51	43.08	-75.38	39.72	1,085.75	1,025.23	975.88	49.36	20.772	
1,400.00	1,375.95	1,364.95	1,364.95	5.93	46.48	-76.83	39.72	1,085.75	1,018.32	965.16	53.17	19.153	
1,500.00	1,472.04	1,461.04	1,461.04	6.36	49.87	-78.30	39.72	1,085.75	1,012.13	955.13	57.00	17.756	
1,600.00	1,568.13	1,557.13	1,557.13	6.81	53.27	-79.78	39.72	1,085.75	1,006.65	945.80	60.85	16.543	
1,700.00	1,664.21	1,653.21	1,653.21	7.27	56.67	-81.28	39.72	1,085.75	1,001.92	937.20	64.72	15.482	
1,800.00	1,760.30	1,749.30	1,749.30	7.74	60.07	-82.79	39.72	1,085.75	997.93	929.34	68.59	14.549	
1,900.00	1,856.39	1,845.39	1,845.39	8.01	63.47	-84.32	39.72	1,085.75	994.69	922.64	72.05	13.806	
2,000.00	1,952.48	1,941.48	1,941.48	8.07	66.87	-85.84	39.72	1,085.75	992.22	916.70	75.52	13.138	
2,100.00	2,048.56	2,037.56	2,037.56	8.17	70.27	-87.38	39.72	1,085.75	990.52	911.50	79.02	12.535	
2,200.00	2,144.65	2,133.65	2,133.65	8.28	73.67	-88.92	39.72	1,085.75	989.59	907.05	82.54	11.990	
2,270.07	2,211.98	2,200.98	2,200.98	8.38	76.05	-90.00	39.72	1,085.75	989.40	904.38	85.02	11.638 CC	
2,300.00	2,240.74	2,229.74	2,229.74	8.42	77.07	-90.46	39.72	1,085.75	989.43	903.36	86.07	11.495	
2,400.00	2,336.83	2,325.83	2,325.83	8.58	80.47	-92.00	39.72	1,085.75	990.05	900.42	89.63	11.046	
2,500.00	2,432.91	2,421.91	2,421.91	8.75	83.88	-93.54	39.72	1,085.75	991.45	898.25	93.20	10.638	
2,600.00	2,529.00	2,518.00	2,518.00	8.95	87.28	-95.07	39.72	1,085.75	993.61	896.82	96.79	10.266	
2,700.00	2,625.09	2,614.09	2,614.09	9.16	90.68	-96.60	39.72	1,085.75	996.54	896.15	100.38	9.927 ES	
2,800.00	2,721.18	2,710.18	2,710.18	9.39	94.08	-98.11	39.72	1,085.75	1,000.23	896.23	104.00	9.618	
2,900.00	2,817.26	2,806.26	2,806.26	9.63	97.49	-99.62	39.72	1,085.75	1,004.66	897.04	107.62	9.335	
3,000.00	2,913.35	2,902.35	2,902.35	9.89	100.89	-101.11	39.72	1,085.75	1,009.84	898.59	111.25	9.077	
3,100.00	3,009.44	3,001.56	2,998.44	10.15	104.40	-102.58	39.72	1,085.75	1,015.75	900.74	115.01	8.832	
3,200.00	3,105.53	3,105.47	3,094.53	10.43	108.08	-104.04	39.72	1,085.75	1,022.37	903.44	118.93	8.596	
3,300.00	3,201.61	3,209.39	3,190.61	10.73	111.76	-105.49	39.72	1,085.75	1,029.70	906.84	122.87	8.381	
3,400.00	3,297.70	3,286.70	3,286.70	11.03	114.50	-106.91	39.72	1,085.75	1,037.72	911.85	125.86	8.245	
3,500.00	3,393.79	3,382.79	3,382.79	11.34	117.90	-108.31	39.72	1,085.75	1,046.40	916.87	129.53	8.079	
3,600.00	3,489.88	3,478.88	3,478.88	11.66	121.31	-109.68	39.72	1,085.75	1,055.75	922.55	133.20	7.926	
3,700.00	3,585.96	3,574.96	3,574.96	11.98	124.71	-111.04	39.72	1,085.75	1,065.73	928.85	136.87	7.786	
3,800.00	3,682.05	3,671.05	3,671.05	12.32	128.11	-112.37	39.72	1,085.75	1,076.33	935.77	140.55	7.658	
3,900.00	3,778.14	3,767.14	3,767.14	12.66	131.52	-113.67	39.72	1,085.75	1,087.53	943.30	144.23	7.540	
4,000.00	3,874.23	3,863.23	3,863.23	13.00	134.92	-114.95	39.72	1,085.75	1,099.32	951.40	147.92	7.432	
4,100.00	3,970.32	3,959.32	3,959.32	13.35	138.32	-116.21	39.72	1,085.75	1,111.67	960.07	151.60	7.333	
4,200.00	4,066.40	4,055.40	4,055.40	13.71	141.73	-117.44	39.72	1,085.75	1,124.57	969.28	155.29	7.242	
4,300.00	4,162.49	4,151.49	4,151.49	14.07	145.13	-118.64	39.72	1,085.75	1,137.99	979.02	158.98	7.158	
4,400.00	4,258.58	4,247.58	4,247.58	14.44	148.54	-119.81	39.72	1,085.75	1,151.93	989.27	162.67	7.082	
4,500.00	4,354.67	4,343.67	4,343.67	14.81	151.94	-120.96	39.72	1,085.75	1,166.36	1,000.00	166.36	7.011	
4,600.00	4,450.75	4,439.75	4,439.75	15.18	155.34	-122.08	39.72	1,085.75	1,181.26	1,011.21	170.05	6.947	
4,700.00	4,546.84	4,535.84	4,535.84	15.56	158.75	-123.17	39.72	1,085.75	1,196.62	1,022.87	173.74	6.887 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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) - CARLSON 10-29 - Noble SI Well - Actual VES S												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_VESSI GyroFlex V4, 7300-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
6,300.00	6,084.24	6,053.86	6,053.47	21.91	13.24	9.83	-2,528.62	1,043.89	1,179.70	1,148.62	31.08	37.958	
6,400.00	6,180.33	6,153.65	6,153.26	22.32	13.45	10.06	-2,528.96	1,044.31	1,152.82	1,121.21	31.62	36.463	
6,500.00	6,276.42	6,253.55	6,253.15	22.74	13.65	10.30	-2,528.77	1,044.67	1,125.45	1,093.29	32.15	35.001	
6,600.00	6,372.51	6,349.85	6,349.45	23.15	13.85	10.52	-2,528.46	1,045.18	1,098.02	1,065.33	32.70	33.584	
6,700.00	6,468.59	6,444.88	6,444.48	23.56	14.05	10.76	-2,528.14	1,045.70	1,070.60	1,037.36	33.24	32.211	
6,800.00	6,565.18	6,544.00	6,543.60	23.88	14.26	-22.11	-2,527.99	1,046.01	1,045.09	1,011.36	33.72	30.990	
6,900.00	6,661.43	6,647.15	6,646.75	24.11	14.47	-54.77	-2,527.19	1,046.03	1,023.55	989.42	34.12	29.996	
7,000.00	6,754.97	6,744.73	6,744.32	24.30	14.68	-75.28	-2,525.94	1,046.10	1,007.50	973.04	34.45	29.241	
7,100.00	6,843.50	6,841.49	6,841.07	24.44	14.88	-88.02	-2,524.21	1,045.92	998.66	963.92	34.74	28.747	
7,151.67	6,886.56	6,891.25	6,890.80	24.48	14.98	-92.89	-2,522.94	1,045.59	997.40	962.52	34.88	28.594 CC, ES	
7,200.00	6,924.84	6,934.99	6,934.53	24.53	15.07	-96.64	-2,521.59	1,045.18	998.60	963.57	35.02	28.513 SF	
7,300.00	6,996.99	7,017.39	7,016.86	24.58	15.25	-102.47	-2,518.44	1,044.18	1,009.46	974.09	35.37	28.542	
7,400.00	7,058.17	7,087.27	7,086.65	24.59	15.39	-105.98	-2,515.03	1,043.30	1,033.01	997.19	35.82	28.837	
7,500.00	7,106.87	7,135.92	7,135.23	24.57	15.49	-106.81	-2,512.41	1,042.66	1,070.25	1,033.83	36.42	29.387	
7,600.00	7,141.90	7,170.31	7,169.56	24.51	15.57	-105.09	-2,510.70	1,042.12	1,120.92	1,083.81	37.11	30.204	
7,700.00	7,162.39	7,208.86	7,190.37	24.43	15.65	-100.45	-2,509.73	1,041.75	1,183.32	1,145.44	37.88	31.240	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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 1 - XOG P&A Well - No Surveys										Offset Site Error:	0.00 usft
Survey Program:		100-SRC Energy_2" CONE_2.448										Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
8,900.00	7,169.57	7,206.57	7,206.57	32.30	253.60	-89.93	-2,550.01	-1,747.91	1,151.21	870.93	280.28	4.107	
9,000.00	7,169.71	7,206.71	7,206.71	33.58	253.60	-89.94	-2,550.01	-1,747.91	1,088.81	807.20	281.62	3.866	
9,100.00	7,169.86	7,206.86	7,206.86	34.89	253.61	-89.95	-2,550.01	-1,747.91	1,032.34	749.05	283.29	3.644	
9,200.00	7,170.00	7,207.00	7,207.00	36.23	253.61	-89.96	-2,550.01	-1,747.91	982.83	697.54	285.29	3.445	
9,300.00	7,170.14	7,207.14	7,207.14	37.60	253.62	-89.97	-2,550.01	-1,747.91	941.37	653.79	287.57	3.273	
9,400.00	7,170.28	7,207.28	7,207.28	38.99	253.62	-89.98	-2,550.01	-1,747.91	909.06	619.02	290.04	3.134	
9,500.00	7,170.42	7,207.42	7,207.42	40.40	253.63	-89.99	-2,550.01	-1,747.91	886.91	594.34	292.57	3.031	
9,600.00	7,170.56	7,207.56	7,207.56	41.82	253.63	-90.00	-2,550.01	-1,747.91	875.69	580.70	294.98	2.969	
9,648.90	7,170.63	7,207.63	7,207.63	42.53	253.63	-90.00	-2,550.01	-1,747.91	874.32	578.24	296.08	2.953 CC, ES	
9,700.00	7,170.70	7,207.70	7,207.70	43.27	253.64	-90.00	-2,550.01	-1,747.91	875.81	578.66	297.15	2.947 SF	
9,800.00	7,170.84	7,207.84	7,207.84	44.73	253.64	-90.01	-2,550.01	-1,747.91	887.28	588.34	298.94	2.968	
9,900.00	7,170.99	7,207.99	7,207.99	46.20	253.65	-90.02	-2,550.01	-1,747.91	909.66	609.36	300.30	3.029	
10,000.00	7,171.13	7,208.13	7,208.13	47.69	253.65	-90.03	-2,550.01	-1,747.91	942.18	640.95	301.23	3.128	
10,100.00	7,171.27	7,208.27	7,208.27	49.19	253.66	-90.04	-2,550.01	-1,747.91	983.83	682.06	301.77	3.260	
10,200.00	7,171.41	7,208.41	7,208.41	50.70	253.66	-90.05	-2,550.01	-1,747.91	1,033.51	731.52	301.99	3.422	
10,300.00	7,171.55	7,208.55	7,208.55	52.22	253.67	-90.06	-2,550.01	-1,747.91	1,090.12	788.16	301.96	3.610	
10,400.00	7,171.69	7,208.69	7,208.69	53.74	253.67	-90.07	-2,550.01	-1,747.91	1,152.64	850.88	301.76	3.820	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	-1.00	3.28	3.28	-83.37	20.40	-175.53	176.71				
100.00	100.00	101.00	99.00	3.28	3.74	-83.37	20.40	-175.53	176.71	168.89	7.82	22.599	
200.00	200.00	201.00	199.00	3.31	6.28	-83.37	20.40	-175.53	176.71	166.33	10.37	17.036 CC	
200.00	200.00	201.00	199.00	3.31	6.28	-83.37	20.40	-175.53	176.71	166.33	10.37	17.036	
300.00	300.00	301.00	299.00	3.35	9.48	123.24	20.40	-175.53	176.95	163.33	13.62	12.994	
400.00	399.93	401.07	398.93	3.40	12.86	124.15	20.40	-175.53	178.88	161.82	17.06	10.486 ES	
500.00	499.68	501.32	498.68	3.49	16.32	125.89	20.40	-175.53	182.89	162.29	20.60	8.879	
600.00	599.13	601.87	598.13	3.59	19.83	128.34	20.40	-175.53	189.22	165.01	24.21	7.816	
700.00	698.15	702.85	697.15	3.73	23.36	131.35	20.40	-175.53	198.20	170.31	27.88	7.108	
800.00	796.63	804.37	795.63	3.91	26.93	134.70	20.40	-175.53	210.15	178.53	31.62	6.647	
900.00	894.44	906.56	893.44	4.14	30.53	138.22	20.40	-175.53	225.38	189.97	35.41	6.365	
1,000.00	991.46	1,009.54	990.46	4.42	34.16	141.73	20.40	-175.53	244.15	204.88	39.26	6.218 SF	
1,100.00	1,087.69	1,086.69	1,086.69	4.75	36.88	145.18	20.40	-175.53	266.30	224.06	42.24	6.305	
1,200.00	1,183.78	1,182.78	1,182.78	5.12	40.27	148.27	20.40	-175.53	289.74	243.86	45.88	6.315	
1,300.00	1,279.86	1,278.86	1,278.86	5.51	43.66	150.91	20.40	-175.53	313.87	264.33	49.53	6.336	
1,400.00	1,375.95	1,374.95	1,374.95	5.93	47.06	153.17	20.40	-175.53	338.55	285.35	53.20	6.364	
1,500.00	1,472.04	1,471.04	1,471.04	6.36	50.46	155.13	20.40	-175.53	363.66	306.79	56.87	6.394	
1,600.00	1,568.13	1,567.13	1,567.13	6.81	53.86	156.83	20.40	-175.53	389.12	328.57	60.55	6.426	
1,700.00	1,664.21	1,663.21	1,663.21	7.27	57.25	158.33	20.40	-175.53	414.87	350.63	64.24	6.458	
1,800.00	1,760.30	1,759.30	1,759.30	7.74	60.65	159.65	20.40	-175.53	440.86	372.93	67.94	6.489	
1,900.00	1,856.39	1,855.39	1,855.39	8.01	64.05	160.83	20.40	-175.53	467.04	395.75	71.30	6.551	
2,000.00	1,952.48	1,951.48	1,951.48	8.07	67.45	161.88	20.40	-175.53	493.39	418.69	74.71	6.604	
2,100.00	2,048.56	2,047.56	2,047.56	8.17	70.85	162.83	20.40	-175.53	519.88	441.74	78.14	6.653	
2,200.00	2,144.65	2,143.65	2,143.65	8.28	74.26	163.68	20.40	-175.53	546.49	464.90	81.59	6.698	
2,300.00	2,240.74	2,239.74	2,239.74	8.42	77.66	164.46	20.40	-175.53	573.20	488.14	85.07	6.738	
2,400.00	2,336.83	2,335.83	2,335.83	8.58	81.06	165.17	20.40	-175.53	600.00	511.45	88.56	6.775	
2,500.00	2,432.91	2,431.91	2,431.91	8.75	84.46	165.81	20.40	-175.53	626.88	534.81	92.07	6.809	
2,600.00	2,529.00	2,528.00	2,528.00	8.95	87.86	166.41	20.40	-175.53	653.83	558.23	95.60	6.839	
2,700.00	2,625.09	2,624.09	2,624.09	9.16	91.27	166.95	20.40	-175.53	680.84	581.70	99.14	6.867	
2,800.00	2,721.18	2,720.18	2,720.18	9.39	94.67	167.46	20.40	-175.53	707.90	605.20	102.70	6.893	
2,900.00	2,817.26	2,816.26	2,816.26	9.63	98.07	167.93	20.40	-175.53	735.01	628.74	106.27	6.916	
3,000.00	2,913.35	2,912.35	2,912.35	9.89	101.47	168.36	20.40	-175.53	762.16	652.30	109.86	6.938	
3,100.00	3,009.44	3,008.44	3,008.44	10.15	104.88	168.77	20.40	-175.53	789.35	675.89	113.46	6.957	
3,200.00	3,105.53	3,104.53	3,104.53	10.43	108.28	169.14	20.40	-175.53	816.57	699.51	117.07	6.975	
3,300.00	3,201.61	3,200.61	3,200.61	10.73	111.68	169.50	20.40	-175.53	843.83	723.14	120.69	6.992	
3,400.00	3,297.70	3,303.30	3,296.70	11.03	115.32	169.83	20.40	-175.53	871.11	746.56	124.55	6.994	
3,500.00	3,393.79	3,407.21	3,392.79	11.34	119.00	170.14	20.40	-175.53	898.42	769.95	128.46	6.994	
3,600.00	3,489.88	3,488.88	3,488.88	11.66	121.89	170.43	20.40	-175.53	925.75	794.15	131.60	7.035	
3,700.00	3,585.96	3,584.96	3,584.96	11.98	125.30	170.71	20.40	-175.53	953.10	817.85	135.25	7.047	
3,800.00	3,682.05	3,681.05	3,681.05	12.32	128.70	170.97	20.40	-175.53	980.47	841.56	138.91	7.058	
3,900.00	3,778.14	3,777.14	3,777.14	12.66	132.10	171.22	20.40	-175.53	1,007.86	865.28	142.58	7.069	
4,000.00	3,874.23	3,873.23	3,873.23	13.00	135.51	171.45	20.40	-175.53	1,035.27	889.01	146.25	7.079	
4,100.00	3,970.32	3,969.32	3,969.32	13.35	138.91	171.67	20.40	-175.53	1,062.69	912.76	149.93	7.088	
4,200.00	4,066.40	4,065.40	4,065.40	13.71	142.31	171.88	20.40	-175.53	1,090.12	936.51	153.61	7.097	
4,300.00	4,162.49	4,161.49	4,161.49	14.07	145.72	172.08	20.40	-175.53	1,117.57	960.27	157.30	7.105	
4,400.00	4,258.58	4,257.58	4,257.58	14.44	149.12	172.28	20.40	-175.53	1,145.03	984.04	160.99	7.112	
4,500.00	4,354.67	4,353.67	4,353.67	14.81	152.52	172.46	20.40	-175.53	1,172.50	1,007.81	164.69	7.120	
4,600.00	4,450.75	4,449.75	4,449.75	15.18	155.93	172.63	20.40	-175.53	1,199.98	1,031.60	168.39	7.126	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
8,500.00	7,169.01	7,207.99	7,192.01	27.61	253.65	89.90	-941.29	-1,526.85	1,185.64	904.51	281.13	4.217	
8,600.00	7,169.15	7,207.85	7,192.15	28.71	253.64	89.91	-941.29	-1,526.85	1,108.89	826.84	282.05	3.932	
8,700.00	7,169.29	7,207.71	7,192.29	29.86	253.64	89.92	-941.29	-1,526.85	1,036.11	752.98	283.13	3.659	
8,800.00	7,169.43	7,207.57	7,192.43	31.06	253.63	89.93	-941.29	-1,526.85	968.21	683.83	284.38	3.405	
8,900.00	7,169.57	7,207.43	7,192.57	32.30	253.63	89.94	-941.29	-1,526.85	906.27	620.49	285.78	3.171	
9,000.00	7,169.71	7,207.29	7,192.71	33.58	253.62	89.95	-941.29	-1,526.85	851.60	564.29	287.31	2.964	
9,100.00	7,169.86	7,207.15	7,192.86	34.89	253.62	89.96	-941.29	-1,526.85	805.67	516.79	288.89	2.789	
9,200.00	7,170.00	7,207.00	7,193.00	36.23	253.61	89.97	-941.29	-1,526.85	770.07	479.66	290.41	2.652	
9,300.00	7,170.14	7,206.86	7,193.14	37.60	253.61	89.99	-941.29	-1,526.85	746.26	454.53	291.73	2.558	
9,400.00	7,170.28	7,206.72	7,193.28	38.99	253.60	90.00	-941.29	-1,526.85	735.39	442.69	292.70	2.512	
9,430.52	7,170.32	7,206.68	7,193.32	39.42	253.60	90.00	-941.29	-1,526.85	734.76	441.84	292.91	2.508 CC, ES, SF	
9,500.00	7,170.42	7,206.58	7,193.42	40.40	253.60	90.01	-941.29	-1,526.85	738.03	444.81	293.22	2.517	
9,600.00	7,170.56	7,206.44	7,193.56	41.82	253.59	90.02	-941.29	-1,526.85	754.05	460.78	293.26	2.571	
9,700.00	7,170.70	7,206.30	7,193.70	43.27	253.59	90.03	-941.29	-1,526.85	782.61	489.73	292.89	2.672	
9,800.00	7,170.84	7,206.16	7,193.84	44.73	253.58	90.04	-941.29	-1,526.85	822.42	530.23	292.19	2.815	
9,900.00	7,170.99	7,206.01	7,193.99	46.20	253.58	90.05	-941.29	-1,526.85	871.94	580.63	291.30	2.993	
10,000.00	7,171.13	7,205.87	7,194.13	47.69	253.57	90.06	-941.29	-1,526.85	929.61	639.28	290.33	3.202	
10,100.00	7,171.27	7,205.73	7,194.27	49.19	253.57	90.07	-941.29	-1,526.85	994.01	704.67	289.34	3.435	
10,200.00	7,171.41	7,205.59	7,194.41	50.70	253.56	90.08	-941.29	-1,526.85	1,063.94	775.54	288.39	3.689	
10,300.00	7,171.55	7,205.45	7,194.55	52.22	253.56	90.10	-941.29	-1,526.85	1,138.36	850.85	287.51	3.959	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-170.84	-985.06	-158.81	997.78				
100.00	100.00	107.00	93.00	3.28	3.85	-170.84	-985.06	-158.81	997.78	989.85	7.93	125.883	
200.00	200.00	207.00	193.00	3.31	6.46	-170.84	-985.06	-158.81	997.78	987.22	10.55	94.534	
300.00	300.00	307.00	293.00	3.35	9.68		-985.06	-158.81	997.42	983.60	13.82	72.184	
400.00	399.93	407.07	392.93	3.40	13.07	35.83	-985.06	-158.81	994.59	977.32	17.27	57.607	
500.00	499.68	507.32	492.68	3.49	16.53	36.13	-985.06	-158.81	988.94	968.13	20.81	47.526	
600.00	599.13	607.87	592.13	3.59	20.04	36.59	-985.06	-158.81	980.51	956.09	24.42	40.153	
700.00	698.15	708.85	691.15	3.73	23.57	37.22	-985.06	-158.81	969.34	941.25	28.09	34.510	
800.00	796.63	789.63	789.63	3.91	26.41	38.01	-985.06	-158.81	955.50	924.42	31.09	30.735	
900.00	894.44	887.44	887.44	4.14	29.85	39.00	-985.06	-158.81	939.10	904.37	34.72	27.044	
1,000.00	991.46	984.46	984.46	4.42	33.27	40.18	-985.06	-158.81	920.23	881.85	38.37	23.981	
1,100.00	1,087.69	1,080.69	1,080.69	4.75	36.67	41.43	-985.06	-158.81	899.31	857.27	42.04	21.394	
1,200.00	1,183.78	1,176.78	1,176.78	5.12	40.06	42.61	-985.06	-158.81	878.36	832.65	45.72	19.212	
1,300.00	1,279.86	1,272.86	1,272.86	5.51	43.45	43.83	-985.06	-158.81	857.81	808.37	49.43	17.353	
1,400.00	1,375.95	1,368.95	1,368.95	5.93	46.85	45.12	-985.06	-158.81	837.66	784.49	53.17	15.754	
1,500.00	1,472.04	1,465.04	1,465.04	6.36	50.25	46.47	-985.06	-158.81	817.95	761.02	56.94	14.366	
1,600.00	1,568.13	1,561.13	1,561.13	6.81	53.64	47.88	-985.06	-158.81	798.72	738.00	60.72	13.153	
1,700.00	1,664.21	1,657.21	1,657.21	7.27	57.04	49.35	-985.06	-158.81	780.00	715.47	64.53	12.087	
1,800.00	1,760.30	1,753.30	1,753.30	7.74	60.44	50.90	-985.06	-158.81	761.83	693.47	68.36	11.144	
1,900.00	1,856.39	1,849.39	1,849.39	8.01	63.84	52.51	-985.06	-158.81	744.24	672.42	71.83	10.362	
2,000.00	1,952.48	1,945.48	1,945.48	8.07	67.24	54.20	-985.06	-158.81	727.28	651.96	75.32	9.655	
2,100.00	2,048.56	2,041.56	2,041.56	8.17	70.64	55.96	-985.06	-158.81	711.00	632.15	78.85	9.017	
2,200.00	2,144.65	2,137.65	2,137.65	8.28	74.04	57.80	-985.06	-158.81	695.44	613.04	82.40	8.440	
2,300.00	2,240.74	2,233.74	2,233.74	8.42	77.44	59.72	-985.06	-158.81	680.65	594.68	85.97	7.917	
2,400.00	2,336.83	2,329.83	2,329.83	8.58	80.85	61.71	-985.06	-158.81	666.69	577.12	89.57	7.443	
2,500.00	2,432.91	2,425.91	2,425.91	8.75	84.25	63.78	-985.06	-158.81	653.60	560.41	93.19	7.014	
2,600.00	2,529.00	2,522.00	2,522.00	8.95	87.65	65.93	-985.06	-158.81	641.44	544.61	96.83	6.624	
2,700.00	2,625.09	2,618.09	2,618.09	9.16	91.05	68.15	-985.06	-158.81	630.27	529.78	100.49	6.272	
2,800.00	2,721.18	2,714.18	2,714.18	9.39	94.46	70.45	-985.06	-158.81	620.13	515.96	104.16	5.953	
2,900.00	2,817.26	2,810.26	2,810.26	9.63	97.86	72.81	-985.06	-158.81	611.08	503.22	107.86	5.666	
3,000.00	2,913.35	2,906.35	2,906.35	9.89	101.26	75.23	-985.06	-158.81	603.16	491.60	111.56	5.407	
3,100.00	3,009.44	3,002.44	3,002.44	10.15	104.66	77.71	-985.06	-158.81	596.43	481.16	115.27	5.174	
3,200.00	3,105.53	3,101.47	3,098.53	10.43	108.17	80.23	-985.06	-158.81	590.92	471.82	119.10	4.962	
3,300.00	3,201.61	3,205.39	3,194.61	10.73	111.85	82.80	-985.06	-158.81	586.67	463.57	123.10	4.766	
3,400.00	3,297.70	3,309.30	3,290.70	11.03	115.53	85.39	-985.06	-158.81	583.70	456.59	127.11	4.592	
3,500.00	3,393.79	3,386.79	3,386.79	11.34	118.28	88.00	-985.06	-158.81	582.04	451.86	130.18	4.471	
3,576.27	3,467.07	3,460.07	3,460.07	11.58	120.87	90.00	-985.06	-158.81	581.66	448.63	133.03	4.372 CC	
3,600.00	3,489.88	3,482.88	3,482.88	11.66	121.68	90.62	-985.06	-158.81	581.70	447.78	133.92	4.344	
3,700.00	3,585.96	3,578.96	3,578.96	11.98	125.08	93.24	-985.06	-158.81	582.67	445.02	137.65	4.233	
3,800.00	3,682.05	3,675.05	3,675.05	12.32	128.49	95.85	-985.06	-158.81	584.95	443.58	141.37	4.138	
3,900.00	3,778.14	3,771.14	3,771.14	12.66	131.89	98.43	-985.06	-158.81	588.53	443.44	145.09	4.056	
4,000.00	3,874.23	3,867.23	3,867.23	13.00	135.29	100.97	-985.06	-158.81	593.38	444.57	148.81	3.988	
4,100.00	3,970.32	3,963.32	3,963.32	13.35	138.70	103.48	-985.06	-158.81	599.48	446.95	152.52	3.930	
4,200.00	4,066.40	4,059.40	4,059.40	13.71	142.10	105.93	-985.06	-158.81	606.77	450.55	156.22	3.884	
4,300.00	4,162.49	4,155.49	4,155.49	14.07	145.50	108.32	-985.06	-158.81	615.23	455.31	159.92	3.847	
4,400.00	4,258.58	4,251.58	4,251.58	14.44	148.91	110.65	-985.06	-158.81	624.81	461.19	163.62	3.819	
4,500.00	4,354.67	4,347.67	4,347.67	14.81	152.31	112.91	-985.06	-158.81	635.44	468.14	167.30	3.798	
4,600.00	4,450.75	4,443.75	4,443.75	15.18	155.72	115.10	-985.06	-158.81	647.09	476.11	170.99	3.784	
4,700.00	4,546.84	4,539.84	4,539.84	15.56	159.12	117.21	-985.06	-158.81	659.70	485.04	174.66	3.777	
4,800.00	4,642.93	4,635.93	4,635.93	15.94	162.52	119.25	-985.06	-158.81	673.21	494.87	178.34	3.775	
4,900.00	4,739.02	4,732.02	4,732.02	16.32	165.93	121.20	-985.06	-158.81	687.57	505.56	182.01	3.778	
5,000.00	4,835.10	4,828.10	4,828.10	16.71	169.33	123.08	-985.06	-158.81	702.73	517.05	185.69	3.785	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
5,100.00	4,931.19	4,924.19	4,924.19	17.10	172.74	124.88	-985.06	-158.81	718.64	529.29	189.36	3.795	
5,200.00	5,027.28	5,020.28	5,020.28	17.49	176.14	126.61	-985.06	-158.81	735.25	542.22	193.03	3.809	
5,300.00	5,123.37	5,116.37	5,116.37	17.88	179.54	128.26	-985.06	-158.81	752.51	555.81	196.70	3.826	
5,400.00	5,219.45	5,212.45	5,212.45	18.28	182.95	129.84	-985.06	-158.81	770.38	570.01	200.37	3.845	
5,500.00	5,315.54	5,308.54	5,308.54	18.67	186.35	131.35	-985.06	-158.81	788.82	584.78	204.04	3.866	
5,600.00	5,411.63	5,404.63	5,404.63	19.07	189.76	132.80	-985.06	-158.81	807.79	600.08	207.71	3.889	
5,700.00	5,507.72	5,500.72	5,500.72	19.47	193.16	134.18	-985.06	-158.81	827.25	615.86	211.39	3.913	
5,800.00	5,603.80	5,603.20	5,596.80	19.88	196.79	135.50	-985.06	-158.81	847.17	631.88	215.29	3.935	
5,900.00	5,699.89	5,707.11	5,692.89	20.28	200.47	136.76	-985.06	-158.81	867.51	648.27	219.25	3.957	
6,000.00	5,795.98	5,788.98	5,788.98	20.69	203.37	137.96	-985.06	-158.81	888.26	665.84	222.42	3.994	
6,100.00	5,892.07	5,885.07	5,885.07	21.09	206.78	139.11	-985.06	-158.81	909.37	683.27	226.11	4.022	
6,200.00	5,988.15	5,981.15	5,981.15	21.50	210.18	140.21	-985.06	-158.81	930.83	701.04	229.79	4.051	
6,300.00	6,084.24	6,077.24	6,077.24	21.91	213.58	141.26	-985.06	-158.81	952.61	719.14	233.48	4.080	
6,400.00	6,180.33	6,173.33	6,173.33	22.32	216.99	142.26	-985.06	-158.81	974.70	737.53	237.17	4.110	
6,500.00	6,276.42	6,269.42	6,269.42	22.74	220.39	143.22	-985.06	-158.81	997.06	756.20	240.86	4.140	
6,600.00	6,372.51	6,365.50	6,365.50	23.15	223.80	144.14	-985.06	-158.81	1,019.68	775.13	244.55	4.170	
6,700.00	6,468.59	6,461.59	6,461.59	23.56	227.20	145.02	-985.06	-158.81	1,042.55	794.30	248.25	4.200	
6,800.00	6,565.18	6,558.18	6,558.18	23.88	230.62	114.71	-985.06	-158.81	1,059.84	807.95	251.88	4.208	
6,900.00	6,661.43	6,654.43	6,654.43	24.11	234.03	86.13	-985.06	-158.81	1,064.10	808.68	255.42	4.166	
7,000.00	6,754.97	6,747.97	6,747.97	24.30	237.35	70.93	-985.06	-158.81	1,055.77	796.98	258.79	4.080	
7,100.00	6,843.50	6,836.50	6,836.50	24.44	240.48	64.65	-985.06	-158.81	1,035.80	773.88	261.93	3.955	
7,200.00	6,924.84	6,917.84	6,917.84	24.53	243.37	63.40	-985.06	-158.81	1,005.61	740.85	264.76	3.798	
7,300.00	6,996.99	6,989.99	6,989.99	24.58	245.92	65.37	-985.06	-158.81	967.06	699.82	267.24	3.619	
7,400.00	7,058.17	7,051.17	7,051.17	24.59	248.09	69.54	-985.06	-158.81	922.48	653.14	269.34	3.425	
7,500.00	7,106.87	7,100.13	7,099.87	24.57	249.82	75.07	-985.06	-158.81	874.57	603.51	271.06	3.226	
7,600.00	7,141.90	7,134.90	7,134.90	24.51	251.06	81.02	-985.06	-158.81	826.34	553.96	272.38	3.034	
7,700.00	7,162.39	7,155.39	7,155.39	24.43	251.78	86.41	-985.06	-158.81	780.91	507.58	273.34	2.857	
7,800.00	7,168.02	7,161.02	7,161.02	24.34	251.98	89.97	-985.06	-158.81	741.28	467.36	273.92	2.706	
7,900.00	7,168.16	7,161.16	7,161.16	24.28	251.99	89.98	-985.06	-158.81	712.04	437.62	274.42	2.595	
8,000.00	7,168.30	7,161.30	7,161.30	24.29	251.99	89.99	-985.06	-158.81	696.08	421.06	275.02	2.531	
8,062.42	7,168.39	7,161.39	7,161.39	24.37	251.99	90.00	-985.06	-158.81	693.27	417.86	275.42	2.517 ES, SF	
8,100.00	7,168.44	7,161.44	7,161.44	24.47	252.00	90.00	-985.06	-158.81	694.29	418.66	275.63	2.519	
8,200.00	7,168.58	7,161.58	7,161.58	24.93	252.00	90.02	-985.06	-158.81	706.79	430.59	276.20	2.559	
8,300.00	7,168.72	7,161.72	7,161.72	25.68	252.01	90.03	-985.06	-158.81	732.85	456.19	276.66	2.649	
8,400.00	7,168.87	7,161.87	7,161.87	26.59	252.01	90.04	-985.06	-158.81	771.10	494.09	277.00	2.784	
8,500.00	7,169.01	7,162.01	7,162.01	27.61	252.02	90.05	-985.06	-158.81	819.82	542.59	277.23	2.957	
8,600.00	7,169.15	7,162.15	7,162.15	28.71	252.02	90.06	-985.06	-158.81	877.28	599.93	277.35	3.163	
8,700.00	7,169.29	7,162.29	7,162.29	29.86	252.03	90.07	-985.06	-158.81	941.88	664.47	277.41	3.395	
8,800.00	7,169.43	7,162.43	7,162.43	31.06	252.03	90.09	-985.06	-158.81	1,012.25	734.84	277.42	3.649	
8,900.00	7,169.57	7,162.57	7,162.57	32.30	252.04	90.10	-985.06	-158.81	1,087.28	809.89	277.39	3.920	
9,000.00	7,169.71	7,162.71	7,162.71	33.58	252.04	90.11	-985.06	-158.81	1,166.06	888.70	277.35	4.204	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	13.80	13.80	3.28	3.28	-114.55	-449.16	-983.24	1,080.98				
100.00	100.00	106.34	106.34	3.28	3.29	-114.55	-449.37	-983.64	1,081.46	1,074.10	7.36	146.951	
200.00	200.00	206.53	206.52	3.31	3.32	-114.56	-449.84	-984.30	1,082.25	1,074.84	7.42	145.942	
300.00	300.00	305.48	305.47	3.35	3.38	91.93	-450.52	-984.91	1,083.12	1,075.60	7.52	144.025	
400.00	399.93	411.02	411.01	3.40	3.48	92.09	-451.27	-985.29	1,083.86	1,076.19	7.67	141.336	
500.00	499.68	508.26	508.24	3.49	3.58	92.39	-452.10	-985.49	1,084.67	1,076.82	7.86	138.056	
600.00	599.13	611.32	611.30	3.59	3.72	92.91	-452.92	-985.61	1,085.59	1,077.49	8.10	133.980	
700.00	698.15	708.35	708.33	3.73	3.87	93.55	-453.77	-985.66	1,086.78	1,078.38	8.39	129.484	
800.00	796.63	807.70	807.67	3.91	4.04	94.38	-454.79	-985.68	1,088.41	1,079.67	8.75	124.459	
900.00	894.44	908.68	908.64	4.14	4.23	95.39	-455.73	-985.55	1,090.45	1,081.29	9.16	119.095	
1,000.00	991.46	1,007.04	1,007.00	4.42	4.41	96.54	-456.53	-985.27	1,093.06	1,083.44	9.62	113.649	
1,100.00	1,087.69	1,104.11	1,104.07	4.75	4.60	97.84	-457.24	-984.94	1,096.50	1,086.36	10.14	108.174	
1,200.00	1,183.78	1,196.35	1,196.31	5.12	4.80	99.11	-458.13	-984.71	1,100.81	1,090.11	10.70	102.865	
1,300.00	1,279.86	1,289.38	1,289.33	5.51	5.02	100.38	-459.25	-984.74	1,106.06	1,094.74	11.31	97.773	
1,400.00	1,375.95	1,385.13	1,385.07	5.93	5.26	101.68	-460.33	-984.97	1,112.11	1,100.15	11.96	92.995	
1,500.00	1,472.04	1,483.34	1,483.28	6.36	5.51	102.99	-461.47	-985.15	1,118.72	1,106.08	12.63	88.559	
1,600.00	1,568.13	1,578.72	1,578.64	6.81	5.76	104.25	-462.68	-985.22	1,125.85	1,112.53	13.32	84.554	
1,700.00	1,664.21	1,674.30	1,674.22	7.27	6.02	105.49	-463.96	-985.39	1,133.67	1,119.65	14.01	80.910	
1,800.00	1,760.30	1,770.70	1,770.61	7.74	6.28	106.74	-464.99	-985.63	1,142.08	1,127.37	14.71	77.632	
1,900.00	1,856.39	1,865.86	1,865.77	8.01	6.52	107.98	-465.40	-985.99	1,151.10	1,136.12	14.99	76.810	
2,000.00	1,952.48	1,960.17	1,960.08	8.07	6.75	109.20	-465.75	-986.47	1,160.83	1,145.57	15.26	76.076	
2,100.00	2,048.56	2,054.30	2,054.21	8.17	6.96	110.41	-466.00	-987.13	1,171.29	1,155.76	15.54	75.389	
2,200.00	2,144.65	2,147.75	2,147.66	8.28	7.16	111.58	-466.24	-987.95	1,182.49	1,166.66	15.83	74.705	
2,300.00	2,240.74	2,242.37	2,242.26	8.42	7.37	112.75	-466.54	-988.98	1,194.44	1,178.30	16.14	73.996	
8,700.00	7,169.29	7,171.30	7,170.36	29.86	18.64	89.30	-505.86	-1,004.37	1,189.60	1,140.82	48.78	24.386	
8,800.00	7,169.43	7,168.61	7,167.68	31.06	18.64	89.17	-505.91	-1,004.46	1,176.18	1,126.41	49.77	23.632	
8,900.00	7,169.57	7,165.94	7,165.01	32.30	18.64	89.04	-505.95	-1,004.56	1,171.16	1,120.48	50.69	23.106	
8,908.94	7,169.59	7,165.70	7,164.77	32.42	18.64	89.03	-505.96	-1,004.57	1,171.13	1,120.36	50.76	23.070	
9,000.00	7,169.71	7,163.28	7,162.36	33.58	18.63	88.91	-506.00	-1,004.65	1,174.66	1,123.17	51.49	22.812	
9,100.00	7,169.86	7,160.65	7,159.72	34.89	18.63	88.78	-506.04	-1,004.74	1,186.60	1,134.43	52.17	22.744 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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) - UPRC 29-7C - Noble T/A 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		
1,600.00	1,568.13	1,560.13	1,560.13	6.81	53.61	-16.95	-1,097.97	916.67	1,175.71	1,115.49	60.22	19.522		
1,700.00	1,664.21	1,656.21	1,656.21	7.27	57.01	-17.35	-1,097.97	916.67	1,149.16	1,085.23	63.93	17.976		
1,800.00	1,760.30	1,752.30	1,752.30	7.74	60.41	-17.77	-1,097.97	916.67	1,122.66	1,055.01	67.64	16.597		
1,900.00	1,856.39	1,848.39	1,848.39	8.01	63.81	-18.21	-1,097.97	916.67	1,096.22	1,025.18	71.03	15.433		
2,000.00	1,952.48	1,944.48	1,944.48	8.07	67.21	-18.67	-1,097.97	916.67	1,069.84	995.37	74.47	14.366		
2,100.00	2,048.56	2,040.56	2,040.56	8.17	70.61	-19.16	-1,097.97	916.67	1,043.53	965.60	77.93	13.391		
2,200.00	2,144.65	2,136.65	2,136.65	8.28	74.01	-19.67	-1,097.97	916.67	1,017.30	935.89	81.41	12.496		
2,300.00	2,240.74	2,232.74	2,232.74	8.42	77.41	-20.21	-1,097.97	916.67	991.14	906.23	84.91	11.673		
2,400.00	2,336.83	2,328.83	2,328.83	8.58	80.81	-20.77	-1,097.97	916.67	965.07	876.64	88.43	10.913		
2,500.00	2,432.91	2,424.91	2,424.91	8.75	84.21	-21.37	-1,097.97	916.67	939.10	847.12	91.97	10.211		
2,600.00	2,529.00	2,521.00	2,521.00	8.95	87.61	-22.00	-1,097.97	916.67	913.22	817.69	95.53	9.559		
2,700.00	2,625.09	2,617.09	2,617.09	9.16	91.02	-22.66	-1,097.97	916.67	887.46	788.35	99.11	8.954		
2,800.00	2,721.18	2,713.18	2,713.18	9.39	94.42	-23.37	-1,097.97	916.67	861.81	759.11	102.71	8.391		
2,900.00	2,817.26	2,809.26	2,809.26	9.63	97.82	-24.12	-1,097.97	916.67	836.30	729.98	106.32	7.866		
3,000.00	2,913.35	2,905.35	2,905.35	9.89	101.23	-24.91	-1,097.97	916.67	810.93	700.98	109.95	7.375		
3,100.00	3,009.44	3,001.44	3,001.44	10.15	104.63	-25.75	-1,097.97	916.67	785.72	672.12	113.60	6.917		
3,200.00	3,105.53	3,102.47	3,097.53	10.43	108.21	-26.65	-1,097.97	916.67	760.68	643.24	117.43	6.478		
3,300.00	3,201.61	3,206.39	3,193.61	10.73	111.89	-27.61	-1,097.97	916.67	735.83	614.44	121.38	6.062		
3,400.00	3,297.70	3,289.70	3,289.70	11.03	114.84	-28.64	-1,097.97	916.67	711.19	586.56	124.62	5.707		
3,500.00	3,393.79	3,385.79	3,385.79	11.34	118.24	-29.74	-1,097.97	916.67	686.78	558.45	128.33	5.352		
3,600.00	3,489.88	3,481.88	3,481.88	11.66	121.64	-30.91	-1,097.97	916.67	662.63	530.59	132.05	5.018		
3,700.00	3,585.96	3,577.96	3,577.96	11.98	125.05	-32.17	-1,097.97	916.67	638.78	502.99	135.79	4.704		
3,800.00	3,682.05	3,674.05	3,674.05	12.32	128.45	-33.53	-1,097.97	916.67	615.24	475.70	139.54	4.409		
3,900.00	3,778.14	3,770.14	3,770.14	12.66	131.85	-34.99	-1,097.97	916.67	592.06	448.76	143.30	4.132		
4,000.00	3,874.23	3,866.23	3,866.23	13.00	135.26	-36.57	-1,097.97	916.67	569.29	422.20	147.09	3.870		
4,100.00	3,970.32	3,962.32	3,962.32	13.35	138.66	-38.27	-1,097.97	916.67	546.97	396.09	150.89	3.625		
4,200.00	4,066.40	4,058.40	4,058.40	13.71	142.07	-40.12	-1,097.97	916.67	525.17	370.46	154.70	3.395		
4,300.00	4,162.49	4,154.49	4,154.49	14.07	145.47	-42.11	-1,097.97	916.67	503.94	345.40	158.54	3.179		
4,400.00	4,258.58	4,250.58	4,250.58	14.44	148.87	-44.27	-1,097.97	916.67	483.37	320.98	162.39	2.977		
4,500.00	4,354.67	4,346.67	4,346.67	14.81	152.28	-46.61	-1,097.97	916.67	463.54	297.28	166.27	2.788		
4,600.00	4,450.75	4,442.75	4,442.75	15.18	155.68	-49.15	-1,097.97	916.67	444.56	274.40	170.16	2.613		
4,700.00	4,546.84	4,538.84	4,538.84	15.56	159.08	-51.90	-1,097.97	916.67	426.53	252.46	174.07	2.450		
4,800.00	4,642.93	4,634.93	4,634.93	15.94	162.49	-54.87	-1,097.97	916.67	409.58	231.58	178.00	2.301		
4,900.00	4,739.02	4,731.02	4,731.02	16.32	165.89	-58.07	-1,097.97	916.67	393.85	211.91	181.94	2.165		
5,000.00	4,835.10	4,827.10	4,827.10	16.71	169.30	-61.52	-1,097.97	916.67	379.49	193.60	185.89	2.041		
5,100.00	4,931.19	4,923.19	4,923.19	17.10	172.70	-65.20	-1,097.97	916.67	366.66	176.82	189.85	1.931		
5,200.00	5,027.28	5,019.28	5,019.28	17.49	176.10	-69.12	-1,097.97	916.67	355.54	161.74	193.80	1.835		
5,300.00	5,123.37	5,115.37	5,115.37	17.88	179.51	-73.25	-1,097.97	916.67	346.28	148.54	197.74	1.751		
5,400.00	5,219.45	5,211.45	5,211.45	18.28	182.91	-77.57	-1,097.97	916.67	339.03	137.38	201.66	1.681		
5,500.00	5,315.54	5,307.54	5,307.54	18.67	186.32	-82.04	-1,097.97	916.67	333.93	128.39	205.54	1.625		
5,600.00	5,411.63	5,403.63	5,403.63	19.07	189.72	-86.61	-1,097.97	916.67	331.08	121.70	209.38	1.581		
5,673.65	5,482.40	5,474.40	5,474.40	19.37	192.23	-90.00	-1,097.97	916.67	330.45	118.28	212.17	1.557 CC		
5,700.00	5,507.72	5,500.28	5,499.72	19.47	193.14	-91.22	-1,097.97	916.67	330.53	117.35	213.18	1.550		
5,800.00	5,603.80	5,604.20	5,595.80	19.88	196.83	-95.81	-1,097.97	916.67	332.30	115.10	217.20	1.530 ES		
5,900.00	5,699.89	5,708.11	5,691.89	20.28	200.51	-100.33	-1,097.97	916.67	336.34	115.19	221.16	1.521 SF		
6,000.00	5,795.98	5,787.98	5,787.98	20.69	203.34	-104.73	-1,097.97	916.67	342.59	118.37	224.22	1.528		
6,100.00	5,892.07	5,884.07	5,884.07	21.09	206.74	-108.95	-1,097.97	916.67	350.92	123.10	227.82	1.540		
6,200.00	5,988.15	5,980.15	5,980.15	21.50	210.15	-112.97	-1,097.97	916.67	361.18	129.80	231.38	1.561		
6,300.00	6,084.24	6,076.24	6,076.24	21.91	213.55	-116.77	-1,097.97	916.67	373.22	138.29	234.93	1.589		
6,400.00	6,180.33	6,172.33	6,172.33	22.32	216.95	-120.33	-1,097.97	916.67	386.87	148.41	238.46	1.622		
6,500.00	6,276.42	6,268.42	6,268.42	22.74	220.36	-123.65	-1,097.97	916.67	401.97	159.98	241.99	1.661		
6,600.00	6,372.51	6,364.50	6,364.50	23.15	223.76	-126.73	-1,097.97	916.67	418.37	172.84	245.52	1.704		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
6,700.00	6,468.59	6,460.59	6,460.59	23.56	227.17	-129.58	-1,097.97	916.67	435.90	186.84	249.06	1.750	
6,800.00	6,565.18	6,557.18	6,557.18	23.88	230.59	-163.76	-1,097.97	916.67	456.95	204.33	252.62	1.809	
6,900.00	6,661.43	6,653.43	6,653.43	24.11	234.00	164.20	-1,097.97	916.67	483.70	227.45	256.25	1.888	
7,000.00	6,754.97	6,746.97	6,746.97	24.30	237.31	145.75	-1,097.97	916.67	515.53	255.67	259.86	1.984	
7,100.00	6,843.50	6,835.50	6,835.50	24.44	240.45	135.90	-1,097.97	916.67	552.79	289.45	263.34	2.099	
7,200.00	6,924.84	6,916.84	6,916.84	24.53	243.33	130.07	-1,097.97	916.67	596.34	329.76	266.58	2.237	
7,300.00	6,996.99	6,988.99	6,988.99	24.58	245.89	125.78	-1,097.97	916.67	647.01	377.54	269.47	2.401	
7,400.00	7,058.17	7,050.17	7,050.17	24.59	248.05	121.52	-1,097.97	916.67	705.25	433.32	271.94	2.593	
7,500.00	7,106.87	7,101.13	7,098.87	24.57	249.86	116.24	-1,097.97	916.67	770.85	496.88	273.97	2.814	
7,600.00	7,141.90	7,133.90	7,133.90	24.51	251.02	109.13	-1,097.97	916.67	842.92	567.64	275.27	3.062	
7,700.00	7,162.39	7,154.39	7,154.39	24.43	251.75	99.73	-1,097.97	916.67	919.98	643.91	276.07	3.332	
7,800.00	7,168.02	7,160.02	7,160.02	24.34	251.95	90.11	-1,097.97	916.67	1,000.14	723.89	276.26	3.620	
7,900.00	7,168.16	7,160.16	7,160.16	24.28	251.95	90.13	-1,097.97	916.67	1,083.02	806.80	276.23	3.921	
8,000.00	7,168.30	7,160.30	7,160.30	24.29	251.96	90.14	-1,097.97	916.67	1,168.59	892.39	276.19	4.231	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	89.70	5.85	1,128.38	1,128.65				
100.00	100.00	76.00	76.00	3.28	3.55	89.70	5.85	1,128.38	1,128.39	1,120.77	7.62	148.084	
200.00	200.00	176.00	176.00	3.31	5.54	89.70	5.85	1,128.38	1,128.39	1,118.76	9.64	117.093	
300.00	300.00	276.00	276.00	3.35	8.65	-63.82	5.85	1,128.38	1,128.20	1,115.41	12.79	88.195	
400.00	399.93	375.93	375.93	3.40	12.01	-64.01	5.85	1,128.38	1,126.66	1,110.46	16.20	69.551	
500.00	499.68	475.68	475.68	3.49	15.44	-64.38	5.85	1,128.38	1,123.62	1,103.91	19.71	57.010	
600.00	599.13	575.13	575.13	3.59	18.89	-64.94	5.85	1,128.38	1,119.13	1,095.85	23.27	48.083	
700.00	698.15	674.15	674.15	3.73	22.36	-65.69	5.85	1,128.38	1,113.27	1,086.39	26.88	41.419	
800.00	796.63	772.63	772.63	3.91	25.81	-66.63	5.85	1,128.38	1,106.16	1,075.65	30.51	36.253	
900.00	894.44	870.44	870.44	4.14	29.25	-67.76	5.85	1,128.38	1,097.95	1,063.78	34.17	32.128	
1,000.00	991.46	967.46	967.46	4.42	32.67	-69.08	5.85	1,128.38	1,088.82	1,050.95	37.86	28.757	
1,100.00	1,087.69	1,063.69	1,063.69	4.75	36.07	-70.49	5.85	1,128.38	1,079.10	1,037.52	41.58	25.952	
1,200.00	1,183.78	1,159.78	1,159.78	5.12	39.46	-71.83	5.85	1,128.38	1,069.83	1,024.50	45.33	23.600	
1,300.00	1,279.86	1,255.86	1,255.86	5.51	42.85	-73.20	5.85	1,128.38	1,061.21	1,012.09	49.12	21.606	
1,400.00	1,375.95	1,351.95	1,351.95	5.93	46.25	-74.59	5.85	1,128.38	1,053.24	1,000.31	52.93	19.900	
1,500.00	1,472.04	1,448.04	1,448.04	6.36	49.64	-76.00	5.85	1,128.38	1,045.94	989.18	56.76	18.428	
1,600.00	1,568.13	1,544.13	1,544.13	6.81	53.04	-77.43	5.85	1,128.38	1,039.33	978.73	60.61	17.149	
1,700.00	1,664.21	1,640.21	1,640.21	7.27	56.44	-78.87	5.85	1,128.38	1,033.42	968.95	64.47	16.030	
1,800.00	1,760.30	1,736.30	1,736.30	7.74	59.84	-80.33	5.85	1,128.38	1,028.23	959.88	68.34	15.045	
1,900.00	1,856.39	1,832.39	1,832.39	8.01	63.24	-81.80	5.85	1,128.38	1,023.76	951.95	71.81	14.257	
2,000.00	1,952.48	1,928.48	1,928.48	8.07	66.64	-83.28	5.85	1,128.38	1,020.02	944.73	75.28	13.549	
2,100.00	2,048.56	2,024.56	2,024.56	8.17	70.04	-84.77	5.85	1,128.38	1,017.02	938.23	78.78	12.909	
2,200.00	2,144.65	2,120.65	2,120.65	8.28	73.44	-86.27	5.85	1,128.38	1,014.76	932.46	82.31	12.329	
2,300.00	2,240.74	2,216.74	2,216.74	8.42	76.84	-87.77	5.85	1,128.38	1,013.27	927.42	85.85	11.803	
2,400.00	2,336.83	2,312.83	2,312.83	8.58	80.24	-89.27	5.85	1,128.38	1,012.52	923.12	89.40	11.325	
2,448.19	2,383.13	2,359.13	2,359.13	8.66	81.88	-90.00	5.85	1,128.38	1,012.43	921.31	91.13	11.110 CC	
2,500.00	2,432.91	2,408.91	2,408.91	8.75	83.65	-90.78	5.85	1,128.38	1,012.54	919.56	92.98	10.890	
2,600.00	2,529.00	2,505.00	2,505.00	8.95	87.05	-92.29	5.85	1,128.38	1,013.31	916.73	96.57	10.493	
2,700.00	2,625.09	2,601.09	2,601.09	9.16	90.45	-93.79	5.85	1,128.38	1,014.83	914.66	100.18	10.130	
2,800.00	2,721.18	2,702.82	2,697.18	9.39	94.05	-95.28	5.85	1,128.38	1,017.11	913.12	104.00	9.780	
2,900.00	2,817.26	2,806.74	2,793.26	9.63	97.73	-96.77	5.85	1,128.38	1,020.14	912.24	107.90	9.454 ES	
3,000.00	2,913.35	2,889.35	2,889.35	9.89	100.66	-98.25	5.85	1,128.38	1,023.91	912.84	111.06	9.219	
3,100.00	3,009.44	2,985.44	2,985.44	10.15	104.06	-99.72	5.85	1,128.38	1,028.40	913.69	114.71	8.965	
3,200.00	3,105.53	3,081.53	3,081.53	10.43	107.46	-101.18	5.85	1,128.38	1,033.63	915.26	118.37	8.732	
3,300.00	3,201.61	3,177.61	3,177.61	10.73	110.87	-102.62	5.85	1,128.38	1,039.56	917.53	122.03	8.519	
3,400.00	3,297.70	3,273.70	3,273.70	11.03	114.27	-104.05	5.85	1,128.38	1,046.19	920.49	125.70	8.323	
3,500.00	3,393.79	3,369.79	3,369.79	11.34	117.67	-105.46	5.85	1,128.38	1,053.52	924.14	129.37	8.143	
3,600.00	3,489.88	3,465.88	3,465.88	11.66	121.08	-106.85	5.85	1,128.38	1,061.51	928.46	133.05	7.978	
3,700.00	3,585.96	3,561.96	3,561.96	11.98	124.48	-108.21	5.85	1,128.38	1,070.16	933.43	136.73	7.827	
3,800.00	3,682.05	3,658.05	3,658.05	12.32	127.88	-109.56	5.85	1,128.38	1,079.45	939.03	140.42	7.687	
3,900.00	3,778.14	3,754.14	3,754.14	12.66	131.29	-110.89	5.85	1,128.38	1,089.37	945.26	144.10	7.560	
4,000.00	3,874.23	3,850.23	3,850.23	13.00	134.69	-112.19	5.85	1,128.38	1,099.89	952.10	147.79	7.442	
4,100.00	3,970.32	3,946.32	3,946.32	13.35	138.09	-113.47	5.85	1,128.38	1,111.01	959.53	151.48	7.334	
4,200.00	4,066.40	4,042.40	4,042.40	13.71	141.50	-114.73	5.85	1,128.38	1,122.70	967.52	155.18	7.235	
4,300.00	4,162.49	4,138.49	4,138.49	14.07	144.90	-115.96	5.85	1,128.38	1,134.95	976.08	158.87	7.144	
4,400.00	4,258.58	4,234.58	4,234.58	14.44	148.31	-117.16	5.85	1,128.38	1,147.73	985.16	162.56	7.060	
4,500.00	4,354.67	4,330.67	4,330.67	14.81	151.71	-118.34	5.85	1,128.38	1,161.03	994.77	166.26	6.983	
4,600.00	4,450.75	4,426.75	4,426.75	15.18	155.11	-119.49	5.85	1,128.38	1,174.84	1,004.88	169.96	6.913	
4,700.00	4,546.84	4,522.84	4,522.84	15.56	158.52	-120.62	5.85	1,128.38	1,189.13	1,015.48	173.65	6.848 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 1C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7728-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-40.17	178.87	-151.01	234.08				
100.00	100.00	101.00	101.00	3.28	3.28	-40.17	178.87	-151.01	234.08	226.56	7.53	31.091	
200.00	200.00	201.01	201.01	3.31	3.31	-40.17	178.87	-151.01	234.08	226.51	7.57	30.906 CC	
203.31	203.31	204.37	204.37	3.31	3.31	166.33	178.86	-151.01	234.09	226.51	7.58	30.897 ES	
300.00	300.00	301.45	301.44	3.35	3.34	166.12	178.12	-151.63	234.35	226.69	7.65	30.616	
400.00	399.93	401.39	401.38	3.40	3.40	166.04	177.26	-152.36	237.54	229.77	7.77	30.574 SF	
500.00	499.68	501.17	501.15	3.49	3.48	166.14	176.39	-153.08	244.13	236.20	7.93	30.783	
600.00	599.13	600.65	600.63	3.59	3.58	166.40	175.52	-153.81	254.09	245.96	8.13	31.234	
700.00	698.15	700.27	699.70	3.73	3.70	166.80	174.66	-154.53	267.44	259.05	8.38	31.908	
800.00	796.63	801.72	798.24	3.91	3.83	167.30	173.81	-155.25	284.16	275.49	8.67	32.770	
900.00	894.44	903.82	896.14	4.14	3.99	167.87	172.96	-155.96	304.27	295.27	9.00	33.802	
1,000.00	991.46	1,006.69	993.26	4.42	4.15	168.47	172.11	-156.67	327.75	318.38	9.37	34.977	
1,100.00	1,087.69	1,089.65	1,089.59	4.75	4.30	169.11	171.28	-157.38	354.23	344.49	9.74	36.371	
1,200.00	1,183.78	1,185.86	1,185.79	5.12	4.47	169.73	170.44	-158.08	381.24	371.10	10.14	37.591	
1,300.00	1,279.86	1,282.06	1,281.99	5.51	4.66	170.27	169.60	-158.78	408.29	397.72	10.57	38.635	
1,400.00	1,375.95	1,378.27	1,378.19	5.93	4.85	170.74	168.77	-159.48	435.37	424.35	11.01	39.527	
1,500.00	1,472.04	1,474.48	1,474.40	6.36	5.05	171.16	167.93	-160.18	462.47	450.99	11.48	40.288	
1,600.00	1,568.13	1,570.68	1,570.60	6.81	5.25	171.53	167.09	-160.88	489.59	477.63	11.96	40.938	
1,700.00	1,664.21	1,666.89	1,666.80	7.27	5.46	171.86	166.26	-161.58	516.72	504.27	12.45	41.495	
1,800.00	1,760.30	1,763.10	1,763.00	7.74	5.67	172.16	165.42	-162.29	543.88	530.92	12.96	41.971	
1,900.00	1,856.39	1,859.30	1,859.20	8.01	5.89	172.43	164.59	-162.99	571.04	558.07	12.97	44.013	
2,000.00	1,952.48	1,955.51	1,955.40	8.07	6.12	172.67	163.75	-163.69	598.21	585.00	13.22	45.253	
2,100.00	2,048.56	2,051.72	2,051.60	8.17	6.34	172.90	162.91	-164.39	625.40	611.91	13.49	46.371	
2,200.00	2,144.65	2,147.92	2,147.80	8.28	6.57	173.10	162.08	-165.09	652.59	638.81	13.78	47.369	
2,300.00	2,240.74	2,244.13	2,244.00	8.42	6.80	173.29	161.24	-165.79	679.79	665.70	14.09	48.254	
2,400.00	2,336.83	2,340.34	2,340.20	8.58	7.04	173.46	160.41	-166.50	707.00	692.58	14.42	49.032	
2,500.00	2,432.91	2,436.54	2,436.40	8.75	7.27	173.63	159.57	-167.20	734.21	719.44	14.77	49.710	
2,600.00	2,529.00	2,532.75	2,532.60	8.95	7.51	173.78	158.73	-167.90	761.42	746.29	15.14	50.297	
2,700.00	2,625.09	2,628.96	2,628.80	9.16	7.75	173.92	157.90	-168.60	788.64	773.12	15.52	50.799	
2,800.00	2,721.18	2,725.16	2,725.00	9.39	7.99	174.05	157.06	-169.30	815.87	799.94	15.93	51.226	
2,900.00	2,817.26	2,821.37	2,821.20	9.63	8.24	174.17	156.23	-170.00	843.10	826.75	16.34	51.585	
3,000.00	2,913.35	2,917.58	2,917.40	9.89	8.48	174.28	155.39	-170.70	870.33	853.55	16.77	51.883	
3,100.00	3,009.44	3,013.78	3,013.60	10.15	8.73	174.39	154.55	-171.41	897.56	880.35	17.22	52.126	
3,200.00	3,105.53	3,109.99	3,109.80	10.43	8.97	174.49	153.72	-172.11	924.80	907.13	17.68	52.322	
3,300.00	3,201.61	3,206.20	3,206.00	10.73	9.22	174.59	152.88	-172.81	952.04	933.90	18.14	52.477	
3,400.00	3,297.70	3,302.40	3,302.20	11.03	9.47	174.68	152.05	-173.51	979.28	960.66	18.62	52.594	
3,500.00	3,393.79	3,401.39	3,398.41	11.34	9.73	174.76	151.21	-174.21	1,006.53	987.42	19.11	52.660	
3,600.00	3,489.88	3,505.18	3,494.61	11.66	10.00	174.84	150.37	-174.91	1,033.78	1,014.15	19.63	52.666	
3,700.00	3,585.96	3,608.98	3,590.81	11.98	10.27	174.92	149.54	-175.62	1,061.02	1,040.87	20.15	52.650	
3,800.00	3,682.05	3,687.23	3,687.01	12.32	10.47	174.99	148.70	-176.32	1,088.27	1,067.66	20.62	52.786	
3,900.00	3,778.14	3,783.44	3,783.21	12.66	10.73	175.06	147.87	-177.02	1,115.52	1,094.39	21.13	52.782	
4,000.00	3,874.23	3,879.64	3,879.41	13.00	10.98	175.12	147.03	-177.72	1,142.78	1,121.12	21.66	52.763	
4,100.00	3,970.32	3,975.85	3,975.61	13.35	11.23	175.19	146.19	-178.42	1,170.03	1,147.84	22.19	52.731	
4,200.00	4,066.40	4,072.06	4,071.81	13.71	11.49	175.25	145.36	-179.12	1,197.29	1,174.56	22.72	52.688	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-43.49	159.20	-151.01	219.42				
100.00	100.00	101.00	101.00	3.28	3.28	-43.49	159.20	-151.01	219.42	211.89	7.53	29.144	
200.00	200.00	201.00	201.00	3.31	3.31	-43.49	159.20	-151.01	219.42	211.85	7.57	28.970 CC	
202.79	202.79	203.79	203.79	3.31	3.31	163.01	159.20	-151.01	219.42	211.85	7.58	28.963 ES	
300.00	300.00	300.70	300.69	3.35	3.34	162.81	158.68	-151.72	219.96	212.30	7.65	28.734 SF	
400.00	399.93	400.63	400.62	3.40	3.40	162.80	158.07	-152.56	223.43	215.66	7.77	28.752	
500.00	499.68	500.39	500.38	3.49	3.48	163.02	157.47	-153.39	230.23	222.30	7.93	29.023	
600.00	599.13	600.15	599.83	3.59	3.58	163.44	156.87	-154.21	240.37	232.24	8.14	29.536	
700.00	698.15	701.11	698.87	3.73	3.70	164.03	156.27	-155.04	253.86	245.47	8.39	30.266	
800.00	796.63	802.61	797.36	3.91	3.84	164.74	155.67	-155.86	270.71	262.03	8.68	31.191	
900.00	894.44	904.77	895.20	4.14	3.99	165.51	155.08	-156.68	290.92	281.91	9.01	32.285	
1,000.00	991.46	1,007.71	992.25	4.42	4.16	166.31	154.49	-157.48	314.50	305.12	9.38	33.522	
1,100.00	1,087.69	1,088.56	1,088.51	4.75	4.30	167.16	153.91	-158.29	341.09	331.34	9.75	34.988	
1,200.00	1,183.78	1,184.69	1,184.64	5.12	4.48	167.95	153.33	-159.09	368.23	358.07	10.15	36.271	
1,300.00	1,279.86	1,280.82	1,280.76	5.51	4.66	168.64	152.74	-159.89	395.42	384.84	10.58	37.378	
1,400.00	1,375.95	1,376.95	1,376.89	5.93	4.85	169.24	152.16	-160.69	422.66	411.64	11.03	38.332	
1,500.00	1,472.04	1,473.08	1,473.01	6.36	5.05	169.77	151.58	-161.49	449.94	438.45	11.49	39.154	
1,600.00	1,568.13	1,569.21	1,569.13	6.81	5.25	170.24	151.00	-162.29	477.26	465.28	11.97	39.865	
1,700.00	1,664.21	1,665.34	1,665.26	7.27	5.46	170.65	150.42	-163.09	504.59	492.13	12.47	40.478	
1,800.00	1,760.30	1,761.47	1,761.38	7.74	5.68	171.03	149.84	-163.89	531.95	518.98	12.97	41.010	
1,900.00	1,856.39	1,857.60	1,857.51	8.01	5.83	171.36	149.25	-164.69	559.33	546.41	12.92	43.284	
2,000.00	1,952.48	1,953.72	1,953.63	8.07	5.89	171.67	148.67	-165.49	586.73	573.72	13.00	45.130	
2,100.00	2,048.56	2,049.85	2,049.76	8.17	5.91	171.95	148.09	-166.29	614.13	601.07	13.06	47.019	
2,200.00	2,144.65	2,145.98	2,145.88	8.28	5.94	172.20	147.51	-167.10	641.55	628.40	13.15	48.776	
2,300.00	2,240.74	2,242.11	2,242.01	8.42	5.98	172.43	146.93	-167.90	668.99	655.71	13.28	50.394	
2,400.00	2,336.83	2,338.24	2,338.13	8.58	6.03	172.65	146.34	-168.70	696.43	683.00	13.43	51.871	
2,500.00	2,432.91	2,434.37	2,434.26	8.75	6.10	172.85	145.76	-169.50	723.88	710.27	13.61	53.205	
2,600.00	2,529.00	2,530.50	2,530.38	8.95	6.17	173.03	145.18	-170.30	751.33	737.52	13.81	54.399	
2,700.00	2,625.09	2,626.63	2,626.50	9.16	6.26	173.20	144.60	-171.10	778.80	764.75	14.04	55.456	
2,800.00	2,721.18	2,722.76	2,722.63	9.39	6.35	173.36	144.02	-171.90	806.27	791.97	14.30	56.383	
2,900.00	2,817.26	2,818.89	2,818.75	9.63	6.46	173.51	143.44	-172.70	833.74	819.16	14.58	57.188	
3,000.00	2,913.35	2,915.02	2,914.88	9.89	6.57	173.65	142.85	-173.50	861.22	846.34	14.88	57.878	
3,100.00	3,009.44	3,011.15	3,011.00	10.15	6.70	173.78	142.27	-174.30	888.71	873.51	15.20	58.463	
3,200.00	3,105.53	3,107.28	3,107.13	10.43	6.83	173.91	141.69	-175.10	916.20	900.65	15.54	58.953	
3,300.00	3,201.61	3,203.41	3,203.25	10.73	6.97	174.02	141.11	-175.90	943.69	927.79	15.90	59.355	
3,400.00	3,297.70	3,300.46	3,299.38	11.03	7.11	174.13	140.53	-176.70	971.18	954.91	16.27	59.674	
3,500.00	3,393.79	3,404.33	3,395.50	11.34	7.28	174.24	139.94	-177.51	998.68	982.01	16.68	59.883	
3,600.00	3,489.88	3,508.20	3,491.62	11.66	7.45	174.34	139.36	-178.31	1,026.18	1,009.09	17.09	60.029	
3,700.00	3,585.96	3,587.93	3,587.75	11.98	7.59	174.43	138.78	-179.11	1,053.69	1,036.20	17.48	60.265	
3,800.00	3,682.05	3,684.06	3,683.87	12.32	7.76	174.52	138.20	-179.91	1,081.20	1,063.28	17.91	60.356	
3,900.00	3,778.14	3,780.19	3,780.00	12.66	7.94	174.60	137.62	-180.71	1,108.70	1,090.35	18.35	60.405	
4,000.00	3,874.23	3,876.32	3,876.12	13.00	8.12	174.68	137.04	-181.51	1,136.22	1,117.41	18.81	60.418	
4,100.00	3,970.32	3,972.45	3,972.25	13.35	8.30	174.76	136.45	-182.31	1,163.73	1,144.46	19.27	60.400	
4,200.00	4,066.40	4,068.58	4,068.37	13.71	8.49	174.83	135.87	-183.11	1,191.24	1,171.51	19.74	60.354	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-37.26	198.90	-151.28	249.90					
100.00	100.00	101.00	101.00	3.28	3.28	-37.26	198.90	-151.28	249.90	242.37	7.53	33.192		
200.00	200.00	201.00	201.00	3.31	3.31	-37.26	198.90	-151.28	249.90	242.32	7.57	32.993 CC, ES		
300.00	300.00	294.75	294.73	3.35	3.35	169.36	200.32	-151.77	251.83	244.17	7.66	32.887 SF		
400.00	399.93	405.44	394.51	3.40	3.42	169.67	202.79	-152.62	257.75	249.96	7.79	33.092		
500.00	499.68	505.91	494.01	3.49	3.51	170.07	205.25	-153.47	267.10	259.14	7.96	33.553		
600.00	599.13	593.23	593.12	3.59	3.60	170.56	207.71	-154.32	279.89	271.73	8.16	34.300		
700.00	698.15	708.14	691.71	3.73	3.75	171.10	210.15	-155.16	296.12	287.68	8.43	35.116		
800.00	796.63	789.85	789.67	3.91	3.86	171.66	212.57	-155.99	315.77	307.06	8.70	36.294		
900.00	894.44	887.09	886.87	4.14	4.01	172.22	214.98	-156.82	338.82	329.80	9.02	37.544		
1,000.00	991.46	983.45	983.20	4.42	4.17	172.77	217.36	-157.64	365.27	355.89	9.38	38.930		
1,100.00	1,087.69	1,078.94	1,078.66	4.75	4.33	173.33	219.73	-158.46	394.73	384.96	9.77	40.392		
1,200.00	1,183.78	1,174.28	1,173.96	5.12	4.51	173.85	222.09	-159.27	424.71	414.54	10.17	41.761		
1,300.00	1,279.86	1,269.61	1,269.26	5.51	4.70	174.30	224.45	-160.08	454.71	444.12	10.59	42.934		
1,400.00	1,375.95	1,364.95	1,364.57	5.93	4.89	174.69	226.81	-160.89	484.74	473.70	11.03	43.940		
1,500.00	1,472.04	1,460.28	1,459.87	6.36	5.09	175.04	229.17	-161.71	514.78	503.29	11.49	44.800		
1,600.00	1,568.13	1,555.62	1,555.17	6.81	5.29	175.35	231.53	-162.52	544.84	532.88	11.96	45.538		
1,700.00	1,664.21	1,650.95	1,650.47	7.27	5.50	175.63	233.89	-163.33	574.91	562.46	12.45	46.170		
1,800.00	1,760.30	1,746.29	1,745.78	7.74	5.71	175.88	236.25	-164.14	605.00	592.05	12.95	46.713		
1,900.00	1,856.39	1,841.63	1,841.08	8.01	5.88	176.10	238.60	-164.96	635.09	622.17	12.92	49.154		
2,000.00	1,952.48	1,936.96	1,936.38	8.07	5.96	176.31	240.96	-165.77	665.19	652.18	13.02	51.102		
2,100.00	2,048.56	2,032.30	2,031.69	8.17	5.97	176.50	243.32	-166.58	695.30	682.22	13.08	53.173		
2,200.00	2,144.65	2,127.63	2,126.99	8.28	6.00	176.67	245.68	-167.39	725.42	712.25	13.17	55.099		
2,300.00	2,240.74	2,222.97	2,222.29	8.42	6.04	176.83	248.04	-168.21	755.54	742.25	13.28	56.873		
2,400.00	2,336.83	2,318.31	2,317.60	8.58	6.09	176.98	250.40	-169.02	785.66	772.23	13.43	58.491		
2,500.00	2,432.91	2,413.64	2,412.90	8.75	6.15	177.11	252.76	-169.83	815.79	802.18	13.61	59.952		
2,600.00	2,529.00	2,508.98	2,508.20	8.95	6.22	177.24	255.12	-170.64	845.93	832.12	13.81	61.258		
2,700.00	2,625.09	2,604.31	2,603.51	9.16	6.31	177.35	257.48	-171.46	876.06	862.03	14.04	62.414		
2,800.00	2,721.18	2,700.35	2,698.81	9.39	6.40	177.46	259.84	-172.27	906.20	891.92	14.29	63.424		
2,900.00	2,817.26	2,805.02	2,794.11	9.63	6.51	177.57	262.20	-173.08	936.35	921.77	14.57	64.253		
3,000.00	2,913.35	2,909.68	2,889.42	9.89	6.63	177.66	264.56	-173.89	966.49	951.61	14.88	64.951		
3,100.00	3,009.44	2,985.66	2,984.72	10.15	6.73	177.75	266.92	-174.71	996.64	981.47	15.17	65.687		
3,200.00	3,105.53	3,080.99	3,080.02	10.43	6.86	177.84	269.28	-175.52	1,026.79	1,011.28	15.51	66.216		
3,300.00	3,201.61	3,176.33	3,175.32	10.73	6.99	177.92	271.64	-176.33	1,056.94	1,041.08	15.86	66.649		
3,400.00	3,297.70	3,271.66	3,270.63	11.03	7.13	177.99	274.00	-177.14	1,087.10	1,070.87	16.23	66.995		
3,500.00	3,393.79	3,367.00	3,365.93	11.34	7.28	178.07	276.36	-177.96	1,117.25	1,100.64	16.61	67.265		
3,600.00	3,489.88	3,462.34	3,461.23	11.66	7.43	178.13	278.72	-178.77	1,147.41	1,130.40	17.01	67.466		
3,700.00	3,585.96	3,557.67	3,556.54	11.98	7.60	178.20	281.08	-179.58	1,177.57	1,160.15	17.42	67.607		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-47.29	139.15	-150.73	205.14				
100.00	100.00	101.00	101.00	3.28	3.28	-47.29	139.15	-150.73	205.14	197.61	7.53	27.247	
200.00	200.00	201.04	201.04	3.31	3.31	-47.29	139.15	-150.73	205.14	197.57	7.57	27.084	
300.00	300.00	304.80	304.77	3.35	3.35	158.80	137.28	-151.13	204.61	196.95	7.66	26.723	
312.08	312.08	317.33	317.29	3.35	3.35	158.71	136.80	-151.23	204.59	196.93	7.67	26.680 CC, ES	
400.00	399.93	404.86	404.77	3.40	3.41	158.24	133.61	-151.91	205.98	198.21	7.77	26.513 SF	
500.00	499.68	504.75	504.58	3.49	3.48	158.02	129.94	-152.69	210.60	202.67	7.93	26.564	
600.00	599.13	604.43	604.20	3.59	3.58	158.13	126.28	-153.46	218.45	210.32	8.13	26.864	
700.00	698.15	703.79	703.49	3.73	3.70	158.54	122.64	-154.24	229.54	221.16	8.38	27.393	
800.00	796.63	802.71	802.33	3.91	3.84	159.17	119.01	-155.01	243.88	235.21	8.67	28.132	
900.00	894.44	901.06	900.62	4.14	3.99	159.96	115.40	-155.78	261.48	252.49	9.00	29.059	
1,000.00	991.46	1,001.27	998.21	4.42	4.15	160.86	111.82	-156.54	282.39	273.02	9.37	30.138	
1,100.00	1,087.69	1,104.32	1,095.10	4.75	4.34	161.86	108.26	-157.30	306.25	296.47	9.78	31.305	
1,200.00	1,183.78	1,207.48	1,191.87	5.12	4.53	162.82	104.70	-158.05	330.68	320.47	10.21	32.383	
1,300.00	1,279.86	1,289.35	1,288.63	5.51	4.69	163.64	101.15	-158.81	355.19	344.57	10.62	33.438	
1,400.00	1,375.95	1,386.18	1,385.40	5.93	4.89	164.36	97.60	-159.56	379.75	368.67	11.08	34.267	
1,500.00	1,472.04	1,483.02	1,482.16	6.36	5.10	164.99	94.04	-160.32	404.37	392.81	11.56	34.981	
1,600.00	1,568.13	1,579.85	1,578.93	6.81	5.31	165.55	90.49	-161.07	429.02	416.97	12.05	35.595	
1,700.00	1,664.21	1,676.68	1,675.69	7.27	5.53	166.04	86.94	-161.83	453.71	441.15	12.56	36.126	
1,800.00	1,760.30	1,773.51	1,772.46	7.74	5.75	166.49	83.38	-162.58	478.43	465.35	13.08	36.585	
1,900.00	1,856.39	1,870.35	1,869.22	8.01	5.90	166.89	79.83	-163.34	503.17	490.15	13.02	38.652	
2,000.00	1,952.48	1,967.18	1,965.99	8.07	5.94	167.26	76.28	-164.09	527.93	514.85	13.08	40.352	
2,100.00	2,048.56	2,064.01	2,062.75	8.17	5.97	167.59	72.72	-164.85	552.71	539.57	13.15	42.044	
2,200.00	2,144.65	2,160.85	2,159.52	8.28	6.00	167.89	69.17	-165.60	577.51	564.27	13.24	43.616	
2,300.00	2,240.74	2,257.68	2,256.28	8.42	6.05	168.17	65.62	-166.36	602.32	588.96	13.37	45.062	
2,400.00	2,336.83	2,354.51	2,353.05	8.58	6.11	168.43	62.06	-167.11	627.15	613.63	13.52	46.380	
2,500.00	2,432.91	2,451.35	2,449.81	8.75	6.18	168.67	58.51	-167.87	651.98	638.28	13.71	47.567	
2,600.00	2,529.00	2,548.18	2,546.58	8.95	6.26	168.88	54.96	-168.63	676.83	662.91	13.92	48.628	
2,700.00	2,625.09	2,645.01	2,643.34	9.16	6.35	169.09	51.40	-169.38	701.68	687.52	14.16	49.566	
2,800.00	2,721.18	2,741.85	2,740.11	9.39	6.45	169.28	47.85	-170.14	726.54	712.12	14.42	50.386	
2,900.00	2,817.26	2,838.68	2,836.87	9.63	6.57	169.46	44.30	-170.89	751.41	736.70	14.71	51.096	
3,000.00	2,913.35	2,935.51	2,933.64	9.89	6.69	169.62	40.74	-171.65	776.28	761.27	15.01	51.704	
3,100.00	3,009.44	3,032.35	3,030.40	10.15	6.82	169.78	37.19	-172.40	801.16	785.82	15.34	52.217	
3,200.00	3,105.53	3,129.18	3,127.17	10.43	6.96	169.93	33.64	-173.16	826.05	810.36	15.69	52.645	
3,300.00	3,201.61	3,226.01	3,223.93	10.73	7.10	170.06	30.08	-173.91	850.94	834.88	16.06	52.996	
3,400.00	3,297.70	3,322.85	3,320.70	11.03	7.25	170.19	26.53	-174.67	875.83	859.39	16.44	53.277	
3,500.00	3,393.79	3,419.68	3,417.46	11.34	7.42	170.32	22.98	-175.42	900.73	883.89	16.84	53.497	
3,600.00	3,489.88	3,516.51	3,514.23	11.66	7.58	170.43	19.42	-176.18	925.63	908.38	17.25	53.662	
3,700.00	3,585.96	3,613.34	3,610.99	11.98	7.75	170.54	15.87	-176.93	950.54	932.86	17.67	53.779	
3,800.00	3,682.05	3,710.18	3,707.76	12.32	7.93	170.65	12.32	-177.69	975.45	957.34	18.11	53.854	
3,900.00	3,778.14	3,807.01	3,804.52	12.66	8.12	170.75	8.76	-178.44	1,000.36	981.80	18.56	53.892	
4,000.00	3,874.23	3,903.84	3,901.29	13.00	8.31	170.84	5.21	-179.20	1,025.27	1,006.25	19.02	53.899	
4,100.00	3,970.32	4,000.68	3,998.05	13.35	8.50	170.93	1.66	-179.95	1,050.19	1,030.70	19.49	53.878	
4,200.00	4,066.40	4,102.49	4,094.82	13.71	8.71	171.02	-1.90	-180.71	1,075.11	1,055.13	19.98	53.806	
4,300.00	4,162.49	4,205.66	4,191.58	14.07	8.92	171.10	-5.45	-181.47	1,100.03	1,079.55	20.48	53.707	
4,400.00	4,258.58	4,308.82	4,288.35	14.44	9.14	171.18	-9.00	-182.22	1,124.95	1,103.96	20.99	53.591	
4,500.00	4,354.67	4,388.01	4,385.11	14.81	9.31	171.25	-12.56	-182.98	1,149.88	1,128.42	21.46	53.591	
4,600.00	4,450.75	4,484.84	4,481.88	15.18	9.52	171.32	-16.11	-183.73	1,174.81	1,152.84	21.97	53.482	
4,700.00	4,546.84	4,581.68	4,578.64	15.56	9.74	171.39	-19.66	-184.49	1,199.73	1,177.25	22.48	53.364	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 26C-27-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 7745-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	1.00	1.00	3.28	3.28	-30.33	259.01	-151.56	300.09				
100.00	100.00	101.00	101.00	3.28	3.28	-30.33	259.01	-151.56	300.09	292.56	7.53	39.858	
200.00	200.00	201.00	201.00	3.31	3.31	-30.33	259.01	-151.56	300.09	292.52	7.57	39.620 CC, ES	
300.00	300.00	292.19	292.17	3.35	3.35	176.29	260.48	-151.71	302.00	294.35	7.66	39.447 SF	
400.00	399.93	383.02	382.90	3.40	3.41	176.65	264.82	-152.12	309.85	302.08	7.77	39.875	
500.00	499.68	479.17	478.79	3.49	3.49	177.22	271.75	-152.79	323.39	315.45	7.94	40.748	
600.00	599.13	577.62	576.97	3.59	3.60	177.79	279.00	-153.49	340.56	332.41	8.15	41.793	
700.00	698.15	675.41	674.49	3.73	3.72	178.33	286.20	-154.18	361.18	352.78	8.40	42.994	
800.00	796.63	772.42	771.24	3.91	3.85	178.81	293.34	-154.87	385.23	376.54	8.69	44.331	
900.00	894.44	868.52	867.08	4.14	4.01	179.25	300.41	-155.55	412.68	403.67	9.01	45.781	
1,000.00	991.46	963.61	961.91	4.42	4.17	179.64	307.41	-156.22	443.49	434.12	9.37	47.327	
1,100.00	1,087.69	1,057.70	1,055.74	4.75	4.34	179.98	314.33	-156.89	477.27	467.51	9.76	48.912	
1,200.00	1,183.78	1,151.61	1,149.39	5.12	4.53	-179.72	321.24	-157.56	511.54	501.39	10.15	50.397	
1,300.00	1,279.86	1,245.52	1,243.05	5.51	4.72	-179.46	328.15	-158.22	545.83	535.26	10.57	51.657	
1,400.00	1,375.95	1,339.44	1,336.70	5.93	4.92	-179.23	335.06	-158.89	580.12	569.11	11.00	52.725	
1,500.00	1,472.04	1,433.35	1,430.36	6.36	5.13	-179.03	341.98	-159.55	614.41	602.96	11.46	53.629	
1,600.00	1,568.13	1,527.26	1,524.02	6.81	5.34	-178.84	348.89	-160.22	648.72	636.79	11.93	54.392	
1,700.00	1,664.21	1,621.17	1,617.67	7.27	5.56	-178.68	355.80	-160.88	683.03	670.62	12.41	55.037	
1,800.00	1,760.30	1,715.09	1,711.33	7.74	5.78	-178.53	362.71	-161.55	717.34	704.44	12.91	55.582	
1,900.00	1,856.39	1,809.00	1,804.98	8.01	6.01	-178.40	369.62	-162.21	751.66	738.74	12.93	58.148	
2,000.00	1,952.48	1,902.91	1,898.64	8.07	6.24	-178.27	376.53	-162.88	785.98	772.81	13.18	59.655	
2,100.00	2,048.56	2,003.17	1,992.29	8.17	6.49	-178.16	383.44	-163.54	820.31	806.85	13.46	60.937	
2,200.00	2,144.65	2,090.74	2,085.95	8.28	6.71	-178.06	390.36	-164.21	854.64	840.90	13.74	62.210	
2,300.00	2,240.74	2,184.65	2,179.61	8.42	6.95	-177.96	397.27	-164.88	888.97	874.92	14.05	63.271	
2,400.00	2,336.83	2,278.56	2,273.26	8.58	7.19	-177.87	404.18	-165.54	923.30	908.91	14.38	64.199	
2,500.00	2,432.91	2,372.48	2,366.92	8.75	7.43	-177.79	411.09	-166.21	957.63	942.90	14.73	65.004	
2,600.00	2,529.00	2,466.39	2,460.57	8.95	7.68	-177.71	418.00	-166.87	991.96	976.87	15.10	65.695	
2,700.00	2,625.09	2,560.30	2,554.23	9.16	7.93	-177.64	424.91	-167.54	1,026.30	1,010.82	15.48	66.282	
2,800.00	2,721.18	2,654.22	2,647.89	9.39	8.18	-177.57	431.82	-168.20	1,060.64	1,044.76	15.88	66.776	
2,900.00	2,817.26	2,748.13	2,741.54	9.63	8.43	-177.51	438.74	-168.87	1,094.98	1,078.68	16.30	67.186	
3,000.00	2,913.35	2,842.04	2,835.20	9.89	8.68	-177.45	445.65	-169.53	1,129.32	1,112.59	16.73	67.522	
3,100.00	3,009.44	2,935.95	2,928.85	10.15	8.94	-177.40	452.56	-170.20	1,163.66	1,146.49	17.17	67.791	
3,200.00	3,105.53	3,029.87	3,022.51	10.43	9.19	-177.35	459.47	-170.86	1,198.00	1,180.38	17.62	68.001	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-32.38	238.97	-151.56	282.98				
100.00	100.00	101.00	101.00	3.28	3.28	-32.38	238.97	-151.56	282.98	275.45	7.53	37.586	
200.00	200.00	201.00	201.00	3.31	3.31	-32.38	238.97	-151.56	282.98	275.41	7.57	37.361 CC, ES	
300.00	300.00	292.74	292.73	3.35	3.35	174.26	240.46	-151.72	284.88	277.22	7.66	37.209 SF	
400.00	399.93	384.13	384.00	3.40	3.41	174.69	244.85	-152.18	292.69	284.92	7.77	37.662	
500.00	499.68	480.99	480.62	3.49	3.49	175.35	251.73	-152.90	306.05	298.11	7.94	38.554	
600.00	599.13	579.47	578.84	3.59	3.60	176.02	258.82	-153.65	322.99	314.84	8.15	39.627	
700.00	698.15	677.29	676.40	3.73	3.72	176.65	265.86	-154.39	343.40	334.99	8.40	40.866	
800.00	796.63	774.33	773.19	3.91	3.86	177.24	272.84	-155.12	367.24	358.54	8.69	42.247	
900.00	894.44	870.47	869.08	4.14	4.01	177.78	279.76	-155.85	394.49	385.47	9.02	43.749	
1,000.00	991.46	965.60	963.96	4.42	4.17	178.26	286.61	-156.57	425.10	415.73	9.37	45.350	
1,100.00	1,087.69	1,059.73	1,057.84	4.75	4.35	178.69	293.38	-157.28	458.70	448.94	9.76	46.993	
1,200.00	1,183.78	1,153.69	1,151.55	5.12	4.53	179.08	300.14	-157.99	492.80	482.65	10.15	48.533	
1,300.00	1,279.86	1,247.65	1,245.26	5.51	4.72	179.41	306.91	-158.70	526.92	516.35	10.57	49.850	
1,400.00	1,375.95	1,341.61	1,338.98	5.93	4.92	179.71	313.67	-159.41	561.05	550.05	11.01	50.974	
1,500.00	1,472.04	1,435.56	1,432.69	6.36	5.13	179.97	320.43	-160.12	595.20	583.74	11.46	51.933	
1,600.00	1,568.13	1,529.52	1,526.40	6.81	5.34	-179.80	327.19	-160.84	629.35	617.42	11.93	52.750	
1,700.00	1,664.21	1,623.48	1,620.11	7.27	5.56	-179.59	333.96	-161.55	663.51	651.10	12.41	53.447	
1,800.00	1,760.30	1,717.44	1,713.82	7.74	5.78	-179.40	340.72	-162.26	697.68	684.77	12.91	54.041	
1,900.00	1,856.39	1,811.40	1,807.53	8.01	5.99	-179.23	347.48	-162.97	731.85	718.94	12.92	56.657	
2,000.00	1,952.48	1,905.36	1,901.25	8.07	6.10	-179.08	354.24	-163.68	766.03	752.98	13.05	58.700	
2,100.00	2,048.56	2,000.69	1,994.96	8.17	6.12	-178.94	361.01	-164.39	800.22	787.11	13.11	61.052	
2,200.00	2,144.65	2,106.73	2,088.67	8.28	6.16	-178.81	367.77	-165.10	834.40	821.20	13.20	63.217	
2,300.00	2,240.74	2,187.23	2,182.38	8.42	6.19	-178.69	374.53	-165.81	868.60	855.28	13.31	65.253	
2,400.00	2,336.83	2,281.19	2,276.09	8.58	6.24	-178.57	381.29	-166.52	902.79	889.33	13.46	67.092	
2,500.00	2,432.91	2,375.15	2,369.81	8.75	6.30	-178.47	388.05	-167.23	936.99	923.36	13.63	68.754	
2,600.00	2,529.00	2,469.10	2,463.52	8.95	6.38	-178.38	394.82	-167.94	971.19	957.36	13.83	70.241	
2,700.00	2,625.09	2,563.06	2,557.23	9.16	6.46	-178.29	401.58	-168.65	1,005.39	991.34	14.05	71.558	
2,800.00	2,721.18	2,657.02	2,650.94	9.39	6.55	-178.20	408.34	-169.36	1,039.59	1,025.30	14.30	72.714	
2,900.00	2,817.26	2,750.98	2,744.65	9.63	6.65	-178.13	415.10	-170.07	1,073.80	1,059.23	14.57	73.716	
3,000.00	2,913.35	2,844.94	2,838.36	9.89	6.76	-178.05	421.87	-170.79	1,108.01	1,093.15	14.86	74.575	
3,100.00	3,009.44	2,938.90	2,932.08	10.15	6.88	-177.98	428.63	-171.50	1,142.21	1,127.05	15.17	75.303	
3,200.00	3,105.53	3,032.85	3,025.79	10.43	7.01	-177.92	435.39	-172.21	1,176.43	1,160.93	15.50	75.909	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-34.64	218.93	-151.28	266.12				
100.00	100.00	101.00	101.00	3.28	3.28	-34.64	218.93	-151.28	266.12	258.59	7.53	35.346	
200.00	200.00	201.00	201.00	3.31	3.31	-34.64	218.93	-151.28	266.12	258.54	7.57	35.135 CC, ES	
300.00	300.00	293.12	293.10	3.35	3.35	172.00	220.43	-151.53	268.04	260.38	7.66	35.008 SF	
400.00	399.93	389.45	389.34	3.40	3.41	172.45	224.55	-152.22	275.42	267.65	7.78	35.417	
500.00	499.68	488.79	488.57	3.49	3.50	172.99	229.08	-152.98	286.54	278.60	7.95	36.062	
600.00	599.13	587.67	587.35	3.59	3.60	173.55	233.59	-153.74	301.13	292.97	8.16	36.915	
700.00	698.15	685.97	685.54	3.73	3.72	174.12	238.07	-154.49	319.17	310.76	8.41	37.956	
800.00	796.63	783.57	783.04	3.91	3.86	174.68	242.52	-155.23	340.64	331.94	8.70	39.165	
900.00	894.44	880.36	879.72	4.14	4.01	175.21	246.94	-155.97	365.53	356.51	9.02	40.517	
1,000.00	991.46	976.21	975.47	4.42	4.17	175.71	251.31	-156.70	393.81	384.43	9.38	41.990	
1,100.00	1,087.69	1,071.13	1,070.29	4.75	4.33	176.18	255.64	-157.43	425.09	415.32	9.77	43.526	
1,200.00	1,183.78	1,165.89	1,164.95	5.12	4.51	176.62	259.96	-158.15	456.88	446.72	10.16	44.964	
1,300.00	1,279.86	1,260.65	1,259.61	5.51	4.70	177.00	264.28	-158.87	488.69	478.11	10.58	46.195	
1,400.00	1,375.95	1,355.41	1,354.27	5.93	4.89	177.33	268.60	-159.60	520.51	509.49	11.02	47.246	
1,500.00	1,472.04	1,450.17	1,448.93	6.36	5.09	177.62	272.92	-160.32	552.35	540.88	11.47	48.144	
1,600.00	1,568.13	1,544.93	1,543.58	6.81	5.30	177.89	277.24	-161.04	584.20	572.26	11.94	48.911	
1,700.00	1,664.21	1,639.69	1,638.24	7.27	5.51	178.12	281.56	-161.77	616.06	603.63	12.43	49.566	
1,800.00	1,760.30	1,734.45	1,732.90	7.74	5.72	178.33	285.88	-162.49	647.93	635.00	12.93	50.127	
1,900.00	1,856.39	1,829.21	1,827.56	8.01	5.94	178.53	290.21	-163.21	679.80	666.86	12.94	52.523	
2,000.00	1,952.48	1,923.97	1,922.22	8.07	6.17	178.70	294.53	-163.93	711.69	698.50	13.19	53.963	
2,100.00	2,048.56	2,018.73	2,016.88	8.17	6.39	178.86	298.85	-164.66	743.57	730.12	13.46	55.259	
2,200.00	2,144.65	2,113.49	2,111.54	8.28	6.62	179.01	303.17	-165.38	775.47	761.72	13.75	56.418	
2,300.00	2,240.74	2,208.25	2,206.20	8.42	6.85	179.14	307.49	-166.10	807.36	793.31	14.05	57.444	
2,400.00	2,336.83	2,303.01	2,300.86	8.58	7.09	179.27	311.81	-166.83	839.26	824.88	14.38	58.347	
2,500.00	2,432.91	2,402.23	2,395.51	8.75	7.34	179.38	316.13	-167.55	871.16	856.42	14.74	59.089	
2,600.00	2,529.00	2,507.47	2,490.17	8.95	7.60	179.49	320.45	-168.27	903.07	887.94	15.14	59.666	
2,700.00	2,625.09	2,587.29	2,584.83	9.16	7.80	179.59	324.78	-169.00	934.98	919.50	15.48	60.397	
2,800.00	2,721.18	2,682.05	2,679.49	9.39	8.05	179.68	329.10	-169.72	966.89	951.01	15.88	60.892	
2,900.00	2,817.26	2,776.81	2,774.15	9.63	8.29	179.77	333.42	-170.44	998.81	982.51	16.29	61.308	
3,000.00	2,913.35	2,871.57	2,868.81	9.89	8.53	179.85	337.74	-171.17	1,030.72	1,014.00	16.72	61.653	
3,100.00	3,009.44	2,966.33	2,963.47	10.15	8.78	179.93	342.06	-171.89	1,062.64	1,045.48	17.16	61.935	
3,200.00	3,105.53	3,061.09	3,058.13	10.43	9.03	-180.00	346.38	-172.61	1,094.56	1,076.95	17.61	62.162	
3,300.00	3,201.61	3,155.85	3,152.79	10.73	9.27	-179.93	350.70	-173.33	1,126.48	1,108.41	18.07	62.340	
3,400.00	3,297.70	3,250.61	3,247.44	11.03	9.52	-179.86	355.02	-174.06	1,158.40	1,139.86	18.54	62.475	
3,500.00	3,393.79	3,345.37	3,342.10	11.34	9.77	-179.80	359.34	-174.78	1,190.32	1,171.30	19.02	62.573	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.33	240.06	-1.39	240.07				
100.00	100.00	100.00	100.00	3.28	3.28	-0.33	240.06	-1.39	240.07	232.54	7.53	31.886	
200.00	200.00	200.00	200.00	3.31	3.31	-0.33	240.06	-1.39	240.07	232.49	7.57	31.697 CC, ES	
300.00	300.00	297.30	297.29	3.35	3.35	-153.50	240.61	0.17	241.02	233.36	7.66	31.473 SF	
400.00	399.93	394.35	394.20	3.40	3.41	-152.72	242.25	4.82	245.85	238.07	7.78	31.612	
500.00	499.68	490.85	490.35	3.49	3.50	-151.60	244.95	12.53	254.99	247.05	7.95	32.094	
600.00	599.13	587.01	585.84	3.59	3.61	-150.22	248.70	23.20	268.49	260.32	8.16	32.887	
700.00	698.15	685.42	683.42	3.73	3.75	-149.03	252.93	35.24	285.54	277.10	8.44	33.842	
800.00	796.63	783.35	780.52	3.91	3.91	-148.26	257.13	47.22	305.59	296.83	8.76	34.888	
900.00	894.44	880.67	877.02	4.14	4.09	-147.86	261.31	59.12	328.55	319.42	9.13	35.996	
1,000.00	991.46	977.26	972.80	4.42	4.29	-147.75	265.46	70.94	354.38	344.84	9.54	37.145	
1,100.00	1,087.69	1,073.11	1,067.84	4.75	4.50	-147.99	269.58	82.67	382.76	372.76	9.99	38.296	
1,200.00	1,183.78	1,168.84	1,162.75	5.12	4.72	-148.39	273.69	94.38	411.57	401.10	10.47	39.316	
1,300.00	1,279.86	1,264.56	1,257.67	5.51	4.96	-148.73	277.81	106.09	440.40	429.43	10.97	40.145	
1,400.00	1,375.95	1,360.28	1,352.59	5.93	5.20	-149.03	281.92	117.80	469.24	457.75	11.50	40.817	
1,500.00	1,472.04	1,456.01	1,447.50	6.36	5.45	-149.29	286.03	129.51	498.09	486.05	12.04	41.361	
1,600.00	1,568.13	1,551.73	1,542.42	6.81	5.71	-149.53	290.14	141.22	526.96	514.35	12.61	41.799	
1,700.00	1,664.21	1,647.45	1,637.33	7.27	5.98	-149.74	294.26	152.93	555.82	542.64	13.19	42.153	
1,800.00	1,760.30	1,743.18	1,732.25	7.74	6.25	-149.93	298.37	164.64	584.70	570.92	13.78	42.437	
1,900.00	1,856.39	1,838.90	1,827.16	8.01	6.52	-150.10	302.48	176.35	613.58	599.71	13.87	44.244	
2,000.00	1,952.48	1,934.63	1,922.08	8.07	6.80	-150.26	306.59	188.06	642.46	628.28	14.18	45.311	
2,100.00	2,048.56	2,030.35	2,016.99	8.17	7.09	-150.40	310.71	199.77	671.35	656.84	14.51	46.258	
2,200.00	2,144.65	2,126.07	2,111.91	8.28	7.37	-150.54	314.82	211.48	700.24	685.37	14.87	47.092	
2,300.00	2,240.74	2,221.80	2,206.82	8.42	7.66	-150.66	318.93	223.19	729.14	713.89	15.25	47.820	
2,400.00	2,336.83	2,317.52	2,301.74	8.58	7.95	-150.77	323.04	234.90	758.03	742.39	15.65	48.451	
2,500.00	2,432.91	2,413.24	2,396.66	8.75	8.25	-150.87	327.16	246.61	786.93	770.87	16.06	48.992	
2,600.00	2,529.00	2,508.97	2,491.57	8.95	8.54	-150.97	331.27	258.33	815.84	799.34	16.50	49.451	
2,700.00	2,625.09	2,604.69	2,586.49	9.16	8.84	-151.06	335.38	270.04	844.74	827.79	16.95	49.837	
2,800.00	2,721.18	2,700.41	2,681.40	9.39	9.14	-151.14	339.49	281.75	873.65	856.23	17.42	50.157	
2,900.00	2,817.26	2,803.86	2,776.32	9.63	9.47	-151.22	343.61	293.46	902.55	884.63	17.93	50.350	
3,000.00	2,913.35	2,908.14	2,871.23	9.89	9.80	-151.30	347.72	305.17	931.46	913.01	18.45	50.488	
3,100.00	3,009.44	2,987.58	2,966.15	10.15	10.05	-151.37	351.83	316.88	960.37	941.47	18.91	50.793	
3,200.00	3,105.53	3,083.31	3,061.06	10.43	10.35	-151.43	355.94	328.59	989.29	969.86	19.43	50.919	
3,300.00	3,201.61	3,179.03	3,155.98	10.73	10.66	-151.49	360.06	340.30	1,018.20	998.24	19.96	51.010	
3,400.00	3,297.70	3,274.75	3,250.89	11.03	10.97	-151.55	364.17	352.01	1,047.11	1,026.61	20.50	51.071	
3,500.00	3,393.79	3,370.48	3,345.81	11.34	11.27	-151.61	368.28	363.72	1,076.03	1,054.97	21.05	51.106	
3,600.00	3,489.88	3,466.20	3,440.72	11.66	11.58	-151.66	372.39	375.43	1,104.94	1,083.33	21.61	51.120	
3,700.00	3,585.96	3,561.92	3,535.64	11.98	11.89	-151.71	376.51	387.14	1,133.86	1,111.68	22.18	51.114	
3,800.00	3,682.05	3,657.65	3,630.56	12.32	12.20	-151.75	380.62	398.85	1,162.78	1,140.02	22.76	51.092	
3,900.00	3,778.14	3,753.37	3,725.47	12.66	12.51	-151.80	384.73	410.56	1,191.70	1,168.35	23.34	51.057	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
0.00	0.00	0.00	0.00	3.28	3.28	-0.36	220.03	-1.39	220.03				
100.00	100.00	100.00	100.00	3.28	3.28	-0.36	220.03	-1.39	220.03	212.51	7.53	29.225	
200.00	200.00	200.00	200.00	3.31	3.31	-0.36	220.03	-1.39	220.03	212.46	7.57	29.052 CC, ES	
300.00	300.00	297.69	297.67	3.35	3.35	-153.49	220.54	0.19	220.95	213.29	7.66	28.852 SF	
400.00	399.93	395.12	394.97	3.40	3.41	-152.63	222.08	4.92	225.67	217.90	7.78	29.016	
500.00	499.68	492.01	491.51	3.49	3.50	-151.40	224.63	12.75	234.66	226.71	7.95	29.531	
600.00	599.13	588.08	586.90	3.59	3.61	-149.89	228.14	23.57	247.95	239.79	8.17	30.367	
700.00	698.15	686.48	684.39	3.73	3.75	-148.50	232.25	36.20	264.96	256.52	8.44	31.392	
800.00	796.63	784.40	781.41	3.91	3.92	-147.61	236.33	48.78	284.97	276.20	8.76	32.512	
900.00	894.44	881.73	877.85	4.14	4.10	-147.12	240.39	61.28	307.88	298.74	9.14	33.697	
1,000.00	991.46	978.35	973.59	4.42	4.30	-146.97	244.42	73.68	333.63	324.07	9.55	34.921	
1,100.00	1,087.69	1,074.23	1,068.59	4.75	4.52	-147.20	248.42	86.00	361.91	351.90	10.01	36.142	
1,200.00	1,183.78	1,169.99	1,163.48	5.12	4.75	-147.58	252.42	98.29	390.62	380.13	10.49	37.227	
1,300.00	1,279.86	1,265.75	1,258.36	5.51	4.98	-147.91	256.42	110.59	419.34	408.34	11.00	38.119	
1,400.00	1,375.95	1,361.51	1,353.25	5.93	5.23	-148.20	260.41	122.89	448.07	436.54	11.53	38.850	
1,500.00	1,472.04	1,457.27	1,448.13	6.36	5.49	-148.45	264.41	135.19	476.82	464.73	12.09	39.449	
1,600.00	1,568.13	1,553.04	1,543.01	6.81	5.75	-148.67	268.40	147.48	505.57	492.91	12.66	39.940	
1,700.00	1,664.21	1,648.80	1,637.90	7.27	6.02	-148.87	272.40	159.78	534.32	521.08	13.24	40.343	
1,800.00	1,760.30	1,744.56	1,732.78	7.74	6.30	-149.05	276.39	172.08	563.08	549.24	13.84	40.674	
1,900.00	1,856.39	1,840.32	1,827.66	8.01	6.52	-149.22	280.39	184.37	591.85	577.97	13.88	42.626	
2,000.00	1,952.48	1,936.08	1,922.55	8.07	6.63	-149.36	284.39	196.67	620.62	606.60	14.02	44.259	
2,100.00	2,048.56	2,031.84	2,017.43	8.17	6.66	-149.50	288.38	208.97	649.39	635.29	14.11	46.027	
2,200.00	2,144.65	2,127.60	2,112.31	8.28	6.71	-149.62	292.38	221.27	678.17	663.94	14.23	47.665	
2,300.00	2,240.74	2,223.36	2,207.20	8.42	6.77	-149.73	296.37	233.56	706.95	692.57	14.38	49.167	
2,400.00	2,336.83	2,319.12	2,302.08	8.58	6.84	-149.84	300.37	245.86	735.73	721.17	14.56	50.532	
2,500.00	2,432.91	2,414.88	2,396.96	8.75	6.93	-149.93	304.36	258.16	764.51	749.74	14.77	51.761	
2,600.00	2,529.00	2,510.64	2,491.85	8.95	7.02	-150.02	308.36	270.45	793.30	778.29	15.01	52.857	
2,700.00	2,625.09	2,606.40	2,586.73	9.16	7.13	-150.10	312.35	282.75	822.09	806.81	15.27	53.825	
2,800.00	2,721.18	2,702.16	2,681.61	9.39	7.25	-150.18	316.35	295.05	850.88	835.31	15.56	54.672	
2,900.00	2,817.26	2,802.08	2,776.50	9.63	7.39	-150.25	320.35	307.35	879.66	863.78	15.88	55.383	
3,000.00	2,913.35	2,906.32	2,871.38	9.89	7.54	-150.32	324.34	319.64	908.46	892.22	16.23	55.964	
3,100.00	3,009.44	2,989.44	2,966.27	10.15	7.67	-150.38	328.34	331.94	937.25	920.68	16.57	56.559	
3,200.00	3,105.53	3,085.20	3,061.15	10.43	7.82	-150.44	332.33	344.24	966.04	949.09	16.95	57.001	
3,300.00	3,201.61	3,180.96	3,156.03	10.73	7.99	-150.50	336.33	356.53	994.83	977.49	17.34	57.364	
3,400.00	3,297.70	3,276.72	3,250.92	11.03	8.16	-150.55	340.32	368.83	1,023.63	1,005.88	17.75	57.655	
3,500.00	3,393.79	3,372.48	3,345.80	11.34	8.34	-150.60	344.32	381.13	1,052.43	1,034.24	18.18	57.884	
3,600.00	3,489.88	3,468.24	3,440.68	11.66	8.53	-150.65	348.31	393.43	1,081.22	1,062.60	18.62	58.056	
3,700.00	3,585.96	3,564.00	3,535.57	11.98	8.72	-150.69	352.31	405.72	1,110.02	1,090.94	19.08	58.180	
3,800.00	3,682.05	3,659.76	3,630.45	12.32	8.92	-150.74	356.31	418.02	1,138.82	1,119.27	19.55	58.260	
3,900.00	3,778.14	3,755.53	3,725.33	12.66	9.13	-150.78	360.30	430.32	1,167.61	1,147.59	20.03	58.302	
4,000.00	3,874.23	3,851.29	3,820.22	13.00	9.34	-150.82	364.30	442.61	1,196.41	1,175.89	20.52	58.311	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	-0.37	260.10	-1.67	260.11				
100.00	100.00	100.00	100.00	3.28	3.28	-0.37	260.10	-1.67	260.11	252.58	7.53	34.548	
200.00	200.00	200.00	200.00	3.31	3.31	-0.37	260.10	-1.67	260.11	252.53	7.57	34.343 CC, ES	
300.00	300.00	295.80	295.79	3.35	3.35	-153.59	260.88	-0.27	261.30	253.64	7.66	34.124 SF	
400.00	399.93	391.33	391.18	3.40	3.41	-152.96	263.19	3.92	266.85	259.08	7.78	34.320	
500.00	499.68	486.23	485.75	3.49	3.50	-152.06	267.01	10.84	277.18	269.24	7.94	34.902	
600.00	599.13	580.18	579.06	3.59	3.60	-150.95	272.28	20.38	292.28	284.12	8.16	35.838	
700.00	698.15	676.18	674.08	3.73	3.74	-149.78	278.88	32.35	311.82	303.40	8.42	37.018	
800.00	796.63	773.51	770.39	3.91	3.90	-148.94	285.69	44.68	334.50	325.75	8.74	38.253	
900.00	894.44	870.17	866.03	4.14	4.09	-148.44	292.45	56.92	360.09	350.98	9.11	39.520	
1,000.00	991.46	966.02	960.88	4.42	4.29	-148.22	299.15	69.07	388.56	379.03	9.52	40.799	
1,100.00	1,087.69	1,061.07	1,054.93	4.75	4.51	-148.35	305.80	81.11	419.56	409.58	9.98	42.050	
1,200.00	1,183.78	1,155.98	1,148.84	5.12	4.74	-148.65	312.44	93.13	450.99	440.54	10.45	43.158	
1,300.00	1,279.86	1,250.89	1,242.75	5.51	4.98	-148.91	319.07	105.15	482.42	471.47	10.95	44.053	
1,400.00	1,375.95	1,345.80	1,336.66	5.93	5.23	-149.14	325.71	117.18	513.87	502.39	11.48	44.779	
1,500.00	1,472.04	1,440.71	1,430.56	6.36	5.49	-149.35	332.35	129.20	545.32	533.30	12.02	45.359	
1,600.00	1,568.13	1,535.61	1,524.47	6.81	5.75	-149.53	338.98	141.22	576.78	564.19	12.59	45.825	
1,700.00	1,664.21	1,630.52	1,618.38	7.27	6.03	-149.69	345.62	153.25	608.24	595.07	13.17	46.196	
1,800.00	1,760.30	1,725.43	1,712.29	7.74	6.31	-149.84	352.26	165.27	639.70	625.94	13.76	46.491	
1,900.00	1,856.39	1,820.34	1,806.20	8.01	6.56	-149.97	358.90	177.29	671.17	657.34	13.83	48.542	
2,000.00	1,952.48	1,915.25	1,900.11	8.07	6.70	-150.09	365.53	189.31	702.64	688.65	13.99	50.223	
2,100.00	2,048.56	2,010.16	1,994.02	8.17	6.73	-150.20	372.17	201.34	734.12	720.04	14.07	52.162	
2,200.00	2,144.65	2,105.06	2,087.93	8.28	6.77	-150.31	378.81	213.36	765.59	751.40	14.19	53.955	
2,300.00	2,240.74	2,200.03	2,181.84	8.42	6.83	-150.40	385.44	225.38	797.07	782.74	14.34	55.598	
2,400.00	2,336.83	2,305.12	2,275.75	8.58	6.91	-150.49	392.08	237.41	828.55	814.03	14.52	57.053	
2,500.00	2,432.91	2,389.79	2,369.66	8.75	6.99	-150.57	398.72	249.43	860.04	845.31	14.72	58.420	
2,600.00	2,529.00	2,484.70	2,463.57	8.95	7.08	-150.64	405.36	261.45	891.52	876.56	14.96	59.608	
2,700.00	2,625.09	2,579.61	2,557.48	9.16	7.19	-150.71	411.99	273.48	923.00	907.79	15.22	60.653	
2,800.00	2,721.18	2,674.52	2,651.39	9.39	7.31	-150.78	418.63	285.50	954.49	938.99	15.50	61.563	
2,900.00	2,817.26	2,769.42	2,745.30	9.63	7.44	-150.84	425.27	297.52	985.98	970.16	15.81	62.347	
3,000.00	2,913.35	2,864.33	2,839.21	9.89	7.58	-150.89	431.90	309.55	1,017.46	1,001.32	16.15	63.014	
3,100.00	3,009.44	2,959.24	2,933.12	10.15	7.72	-150.95	438.54	321.57	1,048.95	1,032.45	16.50	63.574	
3,200.00	3,105.53	3,054.15	3,027.03	10.43	7.88	-151.00	445.18	333.59	1,080.44	1,063.57	16.87	64.037	
3,300.00	3,201.61	3,149.06	3,120.94	10.73	8.04	-151.05	451.82	345.61	1,111.93	1,094.67	17.26	64.411	
3,400.00	3,297.70	3,243.97	3,214.85	11.03	8.22	-151.09	458.45	357.64	1,143.42	1,125.75	17.67	64.707	
3,500.00	3,393.79	3,338.87	3,308.76	11.34	8.40	-151.13	465.09	369.66	1,174.92	1,156.82	18.09	64.933	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.32	99.81	-0.56	99.81				
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	99.81	-0.56	99.81	92.29	7.53	13.258	
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	99.81	-0.56	99.81	92.24	7.57	13.179	
300.00	300.00	302.24	302.22	3.35	3.35	-153.12	98.66	0.85	99.07	91.42	7.66	12.940	
372.73	372.69	376.55	376.43	3.39	3.39	-152.08	96.37	3.65	98.82	91.09	7.73	12.776	CC, ES
400.00	399.93	404.39	404.22	3.40	3.41	-151.60	95.20	5.08	98.86	91.09	7.77	12.726	
500.00	499.68	506.41	505.83	3.49	3.50	-149.38	89.44	12.11	99.65	91.73	7.93	12.570	
600.00	599.13	608.27	606.89	3.59	3.62	-146.57	81.42	21.92	101.59	93.44	8.14	12.478	
700.00	698.15	709.07	706.46	3.73	3.78	-143.51	71.48	34.06	104.99	96.57	8.42	12.468	
800.00	796.63	808.82	804.91	3.91	3.97	-141.54	61.34	46.45	111.16	102.39	8.76	12.683	
900.00	894.44	908.40	903.20	4.14	4.18	-140.81	51.21	58.82	120.11	110.95	9.16	13.110	
1,000.00	991.46	1,007.71	1,001.22	4.42	4.42	-141.11	41.11	71.16	131.76	122.16	9.61	13.713	
1,100.00	1,087.69	1,106.67	1,098.90	4.75	4.67	-142.15	31.04	83.46	145.86	135.76	10.10	14.444	
1,200.00	1,183.78	1,205.57	1,196.52	5.12	4.94	-143.20	20.99	95.75	160.41	149.79	10.62	15.110	
1,300.00	1,279.86	1,304.47	1,294.13	5.51	5.22	-144.08	10.93	108.04	175.00	163.84	11.16	15.678	
1,400.00	1,375.95	1,403.36	1,391.74	5.93	5.52	-144.82	0.87	120.33	189.62	177.89	11.73	16.163	
1,500.00	1,472.04	1,502.26	1,489.36	6.36	5.82	-145.45	-9.19	132.62	204.27	191.95	12.32	16.578	
1,600.00	1,568.13	1,601.16	1,586.97	6.81	6.13	-146.00	-19.25	144.90	218.94	206.01	12.93	16.934	
1,700.00	1,664.21	1,700.06	1,684.59	7.27	6.45	-146.48	-29.30	157.19	233.63	220.08	13.55	17.241	
1,800.00	1,760.30	1,801.05	1,782.20	7.74	6.78	-146.91	-39.36	169.48	248.34	234.15	14.19	17.500	
1,900.00	1,856.39	1,897.85	1,879.81	8.01	6.95	-147.28	-49.42	181.77	263.05	248.90	14.15	18.586	
2,000.00	1,952.48	2,003.25	1,977.43	8.07	7.00	-147.62	-59.48	194.06	277.78	263.56	14.21	19.544	
2,100.00	2,048.56	2,104.35	2,075.04	8.17	7.05	-147.92	-69.54	206.35	292.51	278.21	14.31	20.447	
2,200.00	2,144.65	2,194.54	2,172.66	8.28	7.11	-148.20	-79.59	218.64	307.25	292.83	14.43	21.297	
2,300.00	2,240.74	2,306.56	2,270.27	8.42	7.21	-148.45	-89.65	230.92	322.00	307.40	14.60	22.057	
2,400.00	2,336.83	2,407.66	2,367.89	8.58	7.31	-148.67	-99.71	243.21	336.75	321.96	14.80	22.760	
2,500.00	2,432.91	2,508.77	2,465.50	8.75	7.43	-148.88	-109.77	255.50	351.51	336.48	15.02	23.395	
2,600.00	2,529.00	2,609.87	2,563.11	8.95	7.56	-149.07	-119.83	267.79	366.27	350.99	15.28	23.963	
2,700.00	2,625.09	2,689.03	2,660.73	9.16	7.67	-149.25	-129.88	280.08	381.04	365.49	15.54	24.515	
2,800.00	2,721.18	2,787.93	2,758.34	9.39	7.82	-149.41	-139.94	292.37	395.80	379.95	15.85	24.967	
2,900.00	2,817.26	2,886.82	2,855.96	9.63	7.98	-149.56	-150.00	304.66	410.58	394.39	16.19	25.364	
3,000.00	2,913.35	2,985.72	2,953.57	9.89	8.15	-149.70	-160.06	316.94	425.35	408.80	16.55	25.708	
3,100.00	3,009.44	3,084.62	3,051.18	10.15	8.33	-149.83	-170.12	329.23	440.13	423.20	16.93	26.004	
3,200.00	3,105.53	3,183.52	3,148.80	10.43	8.52	-149.96	-180.18	341.52	454.90	437.58	17.33	26.256	
3,300.00	3,201.61	3,282.41	3,246.41	10.73	8.72	-150.07	-190.23	353.81	469.68	451.94	17.74	26.469	
3,400.00	3,297.70	3,381.31	3,344.03	11.03	8.93	-150.18	-200.29	366.10	484.47	466.29	18.18	26.646	
3,500.00	3,393.79	3,480.21	3,441.64	11.34	9.15	-150.28	-210.35	378.39	499.25	480.62	18.63	26.792	
3,600.00	3,489.88	3,579.11	3,539.26	11.66	9.37	-150.38	-220.41	390.68	514.04	494.93	19.10	26.910	
3,700.00	3,585.96	3,678.00	3,636.87	11.98	9.60	-150.47	-230.47	402.96	528.82	509.24	19.58	27.003	
3,800.00	3,682.05	3,776.90	3,734.48	12.32	9.84	-150.55	-240.52	415.25	543.61	523.53	20.08	27.075	
3,900.00	3,778.14	3,875.80	3,832.10	12.66	10.08	-150.63	-250.58	427.54	558.40	537.81	20.58	27.127	
4,000.00	3,874.23	3,974.70	3,929.71	13.00	10.33	-150.71	-260.64	439.83	573.19	552.09	21.10	27.163	
4,100.00	3,970.32	4,073.59	4,027.33	13.35	10.58	-150.78	-270.70	452.12	587.98	566.35	21.63	27.185	
4,200.00	4,066.40	4,172.49	4,124.94	13.71	10.83	-150.85	-280.76	464.41	602.77	580.60	22.17	27.194	
4,300.00	4,162.49	4,271.39	4,222.55	14.07	11.10	-150.92	-290.81	476.70	617.56	594.85	22.71	27.192	
4,400.00	4,258.58	4,370.29	4,320.17	14.44	11.36	-150.98	-300.87	488.98	632.36	609.09	23.27	27.180	
4,500.00	4,354.67	4,469.18	4,417.78	14.81	11.63	-151.04	-310.93	501.27	647.15	623.32	23.83	27.161	
4,600.00	4,450.75	4,568.08	4,515.40	15.18	11.90	-151.10	-320.99	513.56	661.94	637.55	24.39	27.135	
4,700.00	4,546.84	4,666.98	4,613.01	15.56	12.18	-151.16	-331.05	525.85	676.74	651.77	24.97	27.103	
4,800.00	4,642.93	4,765.88	4,710.63	15.94	12.45	-151.21	-341.10	538.14	691.54	665.99	25.55	27.066	
4,900.00	4,739.02	4,864.77	4,808.24	16.32	12.73	-151.26	-351.16	550.43	706.33	680.20	26.14	27.025	
5,000.00	4,835.10	4,963.67	4,905.85	16.71	13.02	-151.31	-361.22	562.72	721.13	694.40	26.73	26.980	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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		
5,100.00	4,931.19	5,062.57	5,003.47	17.10	13.30	-151.35	-371.28	575.00	735.93	708.60	27.32	26.932		
5,200.00	5,027.28	5,161.47	5,101.08	17.49	13.59	-151.40	-381.34	587.29	750.72	722.80	27.93	26.883		
5,300.00	5,123.37	5,260.36	5,198.70	17.88	13.88	-151.44	-391.39	599.58	765.52	736.99	28.53	26.831		
5,400.00	5,219.45	5,359.26	5,296.31	18.28	14.18	-151.48	-401.45	611.87	780.32	751.18	29.14	26.777		
5,500.00	5,315.54	5,458.16	5,393.92	18.67	14.47	-151.52	-411.51	624.16	795.12	765.37	29.75	26.723		
5,600.00	5,411.63	5,557.06	5,491.54	19.07	14.77	-151.56	-421.57	636.45	809.92	779.55	30.37	26.667		
5,700.00	5,507.72	5,655.95	5,589.15	19.47	15.07	-151.60	-431.63	648.74	824.72	793.73	30.99	26.611		
5,800.00	5,603.80	5,754.85	5,686.77	19.88	15.37	-151.63	-441.69	661.02	839.52	807.90	31.61	26.555		
5,900.00	5,699.89	5,853.75	5,784.38	20.28	15.67	-151.67	-451.74	673.31	854.32	822.08	32.24	26.498		
6,000.00	5,795.98	5,952.64	5,882.00	20.69	15.97	-151.70	-461.80	685.60	869.12	836.25	32.87	26.441		
6,100.00	5,892.07	6,051.54	5,979.61	21.09	16.27	-151.73	-471.86	697.89	883.92	850.42	33.50	26.385		
6,200.00	5,988.15	6,150.44	6,077.22	21.50	16.58	-151.76	-481.92	710.18	898.72	864.59	34.14	26.328		
6,300.00	6,084.24	6,249.34	6,174.84	21.91	16.88	-151.79	-491.98	722.47	913.52	878.75	34.77	26.272		
6,400.00	6,180.33	6,348.23	6,272.45	22.32	17.19	-151.82	-502.03	734.76	928.32	892.91	35.41	26.216		
6,500.00	6,276.42	6,447.13	6,370.07	22.74	17.50	-151.85	-512.09	747.04	943.13	907.08	36.05	26.161		
6,600.00	6,372.51	6,546.43	6,468.09	23.15	17.81	-151.88	-522.19	759.26	957.93	921.24	36.69	26.108		
6,700.00	6,468.59	6,647.43	6,568.42	23.56	17.99	-152.50	-532.49	761.85	972.57	935.39	37.18	26.161		
6,800.00	6,565.18	6,744.82	6,664.39	23.88	18.13	174.53	-542.30	749.23	987.44	949.95	37.48	26.342		
6,900.00	6,661.43	6,839.65	6,754.96	24.11	18.21	142.42	-551.50	722.95	1,002.59	964.92	37.68	26.610		
7,000.00	6,754.97	6,932.30	6,838.73	24.30	18.25	122.86	-559.96	684.50	1,017.61	979.82	37.79	26.928		
7,100.00	6,843.50	7,023.12	6,914.63	24.44	18.27	111.36	-567.58	635.35	1,032.04	994.19	37.85	27.267		
7,200.00	6,924.84	7,112.42	6,981.74	24.53	18.27	104.02	-574.26	576.93	1,045.47	1,007.58	37.89	27.590		
7,300.00	6,996.99	7,200.48	7,039.32	24.58	18.25	98.99	-579.94	510.63	1,057.53	1,019.56	37.97	27.855		
7,400.00	7,058.17	7,287.57	7,086.79	24.59	18.24	95.42	-584.55	437.84	1,067.86	1,029.74	38.12	28.012		
7,500.00	7,106.87	7,373.91	7,123.67	24.57	18.23	92.91	-588.07	359.93	1,076.17	1,037.76	38.41	28.021		
7,600.00	7,141.90	7,459.69	7,149.60	24.51	18.25	91.24	-590.44	278.27	1,082.24	1,043.38	38.85	27.854		
7,700.00	7,162.39	7,545.10	7,164.34	24.43	18.34	90.28	-591.66	194.22	1,085.89	1,046.40	39.48	27.503		
7,800.00	7,168.02	7,633.40	7,168.03	24.34	18.57	90.00	-591.73	106.04	1,087.04	1,046.73	40.31	26.970		
7,900.00	7,168.16	7,733.40	7,168.20	24.28	19.06	90.00	-591.40	6.04	1,087.20	1,045.80	41.40	26.263		
8,000.00	7,168.30	7,833.40	7,168.36	24.29	19.75	90.00	-591.07	-93.96	1,087.37	1,044.65	42.72	25.453		
8,100.00	7,168.44	7,933.40	7,168.53	24.47	20.58	90.00	-590.74	-193.96	1,087.53	1,043.27	44.26	24.571		
8,200.00	7,168.58	8,033.40	7,168.70	24.93	21.51	90.01	-590.41	-293.96	1,087.69	1,041.70	46.00	23.648		
8,300.00	7,168.72	8,133.40	7,168.86	25.68	22.54	90.01	-590.08	-393.96	1,087.86	1,039.96	47.90	22.710		
8,400.00	7,168.87	8,233.40	7,169.03	26.59	23.64	90.01	-589.75	-493.95	1,088.02	1,038.06	49.96	21.777		
8,500.00	7,169.01	8,333.40	7,169.20	27.61	24.80	90.01	-589.42	-593.95	1,088.19	1,036.03	52.16	20.864		
8,600.00	7,169.15	8,433.40	7,169.37	28.71	26.02	90.01	-589.09	-693.95	1,088.35	1,033.88	54.47	19.981		
8,700.00	7,169.29	8,533.40	7,169.53	29.86	27.28	90.01	-588.76	-793.95	1,088.51	1,031.63	56.89	19.135		
8,800.00	7,169.43	8,633.40	7,169.70	31.06	28.59	90.01	-588.43	-893.95	1,088.68	1,029.29	59.39	18.330		
8,900.00	7,169.57	8,733.40	7,169.87	32.30	29.93	90.02	-588.10	-993.95	1,088.84	1,026.86	61.98	17.568		
9,000.00	7,169.71	8,833.40	7,170.03	33.58	31.30	90.02	-587.77	-1,093.95	1,089.01	1,024.37	64.64	16.849		
9,100.00	7,169.86	8,933.40	7,170.20	34.89	32.70	90.02	-587.43	-1,193.95	1,089.17	1,021.82	67.35	16.171		
9,200.00	7,170.00	9,033.40	7,170.37	36.23	34.12	90.02	-587.10	-1,293.95	1,089.34	1,019.21	70.13	15.534		
9,300.00	7,170.14	9,133.40	7,170.53	37.60	35.57	90.02	-586.77	-1,393.95	1,089.50	1,016.55	72.95	14.936		
9,400.00	7,170.28	9,233.40	7,170.70	38.99	37.03	90.02	-586.44	-1,493.95	1,089.66	1,013.85	75.81	14.374		
9,500.00	7,170.42	9,333.40	7,170.87	40.40	38.51	90.02	-586.11	-1,593.95	1,089.83	1,011.12	78.71	13.846		
9,600.00	7,170.56	9,433.40	7,171.03	41.82	40.01	90.02	-585.78	-1,693.94	1,089.99	1,008.35	81.65	13.350		
9,700.00	7,170.70	9,533.40	7,171.20	43.27	41.52	90.03	-585.45	-1,793.94	1,090.16	1,005.54	84.61	12.884		
9,800.00	7,170.84	9,633.40	7,171.37	44.73	43.04	90.03	-585.12	-1,893.94	1,090.32	1,002.71	87.61	12.446		
9,900.00	7,170.99	9,733.40	7,171.53	46.20	44.57	90.03	-584.79	-1,993.94	1,090.48	999.86	90.62	12.033		
10,000.00	7,171.13	9,833.40	7,171.70	47.69	46.11	90.03	-584.46	-2,093.94	1,090.65	996.98	93.66	11.644		
10,100.00	7,171.27	9,933.40	7,171.87	49.19	47.66	90.03	-584.13	-2,193.94	1,090.81	994.09	96.72	11.278		
10,200.00	7,171.41	10,033.40	7,172.03	50.70	49.22	90.03	-583.80	-2,293.94	1,090.98	991.17	99.80	10.931		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
10,300.00	7,171.55	10,133.40	7,172.20	52.22	50.78	90.03	-583.47	-2,393.94	1,091.14	988.24	102.90	10.604		
10,400.00	7,171.69	10,233.40	7,172.37	53.74	52.35	90.04	-583.14	-2,493.94	1,091.30	985.30	106.01	10.295		
10,500.00	7,171.83	10,333.40	7,172.53	55.28	53.93	90.04	-582.80	-2,593.94	1,091.47	982.34	109.13	10.001		
10,600.00	7,171.97	10,433.40	7,172.70	56.82	55.51	90.04	-582.47	-2,693.94	1,091.63	979.36	112.27	9.723		
10,700.00	7,172.12	10,533.40	7,172.87	58.37	57.10	90.04	-582.14	-2,793.94	1,091.80	976.38	115.42	9.460		
10,800.00	7,172.26	10,633.40	7,173.03	59.93	58.69	90.04	-581.81	-2,893.94	1,091.96	973.38	118.58	9.209		
10,900.00	7,172.40	10,733.40	7,173.20	61.49	60.29	90.04	-581.48	-2,993.93	1,092.13	970.38	121.75	8.970		
11,000.00	7,172.54	10,833.40	7,173.37	63.05	61.89	90.04	-581.15	-3,093.93	1,092.29	967.36	124.93	8.744		
11,100.00	7,172.68	10,933.40	7,173.53	64.63	63.49	90.04	-580.82	-3,193.93	1,092.45	964.34	128.11	8.527		
11,200.00	7,172.82	11,033.40	7,173.70	66.20	65.10	90.05	-580.49	-3,293.93	1,092.62	961.31	131.31	8.321		
11,300.00	7,172.96	11,133.40	7,173.87	67.78	66.71	90.05	-580.16	-3,393.93	1,092.78	958.27	134.51	8.124		
11,400.00	7,173.11	11,233.40	7,174.03	69.37	68.32	90.05	-579.83	-3,493.93	1,092.95	955.23	137.72	7.936		
11,500.00	7,173.25	11,333.40	7,174.20	70.96	69.94	90.05	-579.50	-3,593.93	1,093.11	952.18	140.93	7.756		
11,600.00	7,173.39	11,433.40	7,174.37	72.55	71.56	90.05	-579.17	-3,693.93	1,093.27	949.12	144.15	7.584		
11,700.00	7,173.53	11,533.40	7,174.53	74.15	73.18	90.05	-578.84	-3,793.93	1,093.44	946.06	147.38	7.419		
11,800.00	7,173.67	11,633.40	7,174.70	75.75	74.80	90.05	-578.50	-3,893.93	1,093.60	942.99	150.61	7.261		
11,900.00	7,173.81	11,733.40	7,174.87	77.35	76.43	90.06	-578.17	-3,993.93	1,093.77	939.92	153.85	7.109		
12,000.00	7,173.95	11,833.40	7,175.03	78.96	78.06	90.06	-577.84	-4,093.93	1,093.93	936.84	157.09	6.964		
12,100.00	7,174.09	11,933.40	7,175.20	80.56	79.69	90.06	-577.51	-4,193.92	1,094.10	933.76	160.33	6.824		
12,200.00	7,174.24	12,033.40	7,175.37	82.18	81.32	90.06	-577.18	-4,293.92	1,094.26	930.68	163.58	6.689		
12,300.00	7,174.38	12,133.40	7,175.54	83.79	82.95	90.06	-576.85	-4,393.92	1,094.42	927.59	166.84	6.560		
12,400.00	7,174.52	12,233.40	7,175.70	85.40	84.58	90.06	-576.52	-4,493.92	1,094.59	924.50	170.09	6.435		
12,500.00	7,174.66	12,333.40	7,175.87	87.02	86.22	90.06	-576.19	-4,593.92	1,094.75	921.40	173.35	6.315		
12,600.00	7,174.80	12,433.40	7,176.04	88.64	87.86	90.06	-575.86	-4,693.92	1,094.92	918.30	176.62	6.199		
12,700.00	7,174.94	12,533.40	7,176.20	90.26	89.50	90.07	-575.53	-4,793.92	1,095.08	915.20	179.88	6.088		
12,800.00	7,175.08	12,633.40	7,176.37	91.88	91.13	90.07	-575.20	-4,893.92	1,095.24	912.09	183.15	5.980		
12,900.00	7,175.23	12,733.40	7,176.54	93.51	92.78	90.07	-574.87	-4,993.92	1,095.41	908.99	186.42	5.876		
13,000.00	7,175.37	12,833.40	7,176.70	95.13	94.42	90.07	-574.54	-5,093.92	1,095.57	905.88	189.70	5.775		
13,100.00	7,175.51	12,933.40	7,176.87	96.76	96.06	90.07	-574.21	-5,193.92	1,095.74	902.76	192.97	5.678		
13,200.00	7,175.65	13,033.40	7,177.04	98.39	97.70	90.07	-573.87	-5,293.92	1,095.90	899.65	196.25	5.584		
13,300.00	7,175.79	13,133.39	7,177.20	100.02	99.35	90.07	-573.54	-5,393.91	1,096.07	896.53	199.53	5.493		
13,400.00	7,175.93	13,233.39	7,177.37	101.65	100.99	90.08	-573.21	-5,493.91	1,096.23	893.41	202.82	5.405		
13,500.00	7,176.07	13,333.39	7,177.54	103.29	102.64	90.08	-572.88	-5,593.91	1,096.39	890.29	206.10	5.320		
13,600.00	7,176.21	13,433.39	7,177.70	104.92	104.29	90.08	-572.55	-5,693.91	1,096.56	887.17	209.39	5.237		
13,700.00	7,176.36	13,533.39	7,177.87	106.55	105.94	90.08	-572.22	-5,793.91	1,096.72	884.05	212.68	5.157		
13,800.00	7,176.50	13,633.39	7,178.04	108.19	107.58	90.08	-571.89	-5,893.91	1,096.89	880.92	215.97	5.079		
13,900.00	7,176.64	13,733.39	7,178.20	109.83	109.23	90.08	-571.56	-5,993.91	1,097.05	877.79	219.26	5.003		
14,000.00	7,176.78	13,833.39	7,178.37	111.47	110.88	90.08	-571.23	-6,093.91	1,097.21	874.66	222.55	4.930		
14,100.00	7,176.92	13,933.39	7,178.54	113.11	112.53	90.08	-570.90	-6,193.91	1,097.38	871.53	225.85	4.859		
14,200.00	7,177.06	14,033.39	7,178.70	114.75	114.19	90.09	-570.57	-6,293.91	1,097.54	868.40	229.14	4.790		
14,300.00	7,177.20	14,133.39	7,178.87	116.39	115.84	90.09	-570.24	-6,393.91	1,097.71	865.27	232.44	4.723		
14,400.00	7,177.35	14,233.39	7,179.04	118.03	117.49	90.09	-569.91	-6,493.91	1,097.87	862.13	235.74	4.657		
14,500.00	7,177.49	14,333.39	7,179.20	119.67	119.14	90.09	-569.58	-6,593.90	1,098.04	859.00	239.04	4.594		
14,600.00	7,177.63	14,433.39	7,179.37	121.32	120.80	90.09	-569.24	-6,693.90	1,098.20	855.86	242.34	4.532		
14,700.00	7,177.77	14,533.39	7,179.54	122.96	122.45	90.09	-568.91	-6,793.90	1,098.36	852.72	245.64	4.471		
14,800.00	7,177.91	14,633.39	7,179.70	124.61	124.11	90.09	-568.58	-6,893.90	1,098.53	849.58	248.95	4.413		
14,900.00	7,178.05	14,733.39	7,179.87	126.25	125.76	90.10	-568.25	-6,993.90	1,098.69	846.44	252.25	4.356		
15,000.00	7,178.19	14,833.39	7,180.04	127.90	127.42	90.10	-567.92	-7,093.90	1,098.86	843.30	255.56	4.300		
15,100.00	7,178.33	14,933.39	7,180.20	129.55	129.07	90.10	-567.59	-7,193.90	1,099.02	840.16	258.86	4.246		
15,200.00	7,178.48	15,033.39	7,180.37	131.19	130.73	90.10	-567.26	-7,293.90	1,099.18	837.01	262.17	4.193		
15,300.00	7,178.62	15,133.39	7,180.54	132.84	132.38	90.10	-566.93	-7,393.90	1,099.35	833.87	265.48	4.141		
15,400.00	7,178.76	15,233.39	7,180.70	134.49	134.04	90.10	-566.60	-7,493.90	1,099.51	830.72	268.79	4.091		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 31N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,178.90	15,333.39	7,180.87	136.14	135.70	90.10	-566.27	-7,593.90	1,099.68	827.58	272.10	4.041	
15,571.56	7,179.00	15,404.95	7,180.99	137.39	136.89	90.10	-566.03	-7,665.45	1,099.79	825.33	274.47	4.007 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
0.00	0.00	0.00	0.00	3.28	3.28	-0.27	119.85	-0.56	119.85				
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	119.85	-0.56	119.85	112.32	7.53	15.919	
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	119.85	-0.56	119.85	112.28	7.57	15.824	
300.00	300.00	302.10	302.07	3.35	3.35	-153.11	118.95	1.02	119.36	111.70	7.66	15.588	
312.81	312.81	315.17	315.14	3.35	3.35	-152.95	118.71	1.46	119.35	111.68	7.67	15.561	CC, ES
400.00	399.93	404.08	403.90	3.40	3.41	-151.60	116.26	5.76	119.91	112.13	7.77	15.428	
500.00	499.68	505.88	505.30	3.49	3.50	-149.40	111.79	13.63	121.99	114.06	7.94	15.373	SF
600.00	599.13	607.44	606.07	3.59	3.62	-146.63	105.56	24.59	125.77	117.61	8.16	15.421	
700.00	698.15	707.10	704.72	3.73	3.78	-144.21	98.59	36.86	132.02	123.59	8.44	15.647	
800.00	796.63	806.62	803.24	3.91	3.95	-142.83	91.63	49.11	141.24	132.46	8.77	16.098	
900.00	894.44	905.89	901.51	4.14	4.16	-142.39	84.69	61.34	153.25	144.09	9.16	16.728	
1,000.00	991.46	1,004.78	999.40	4.42	4.38	-142.70	77.77	73.51	168.01	158.42	9.60	17.506	
1,100.00	1,087.69	1,103.23	1,096.86	4.75	4.61	-143.58	70.89	85.63	185.26	175.18	10.08	18.386	
1,200.00	1,183.78	1,201.61	1,194.25	5.12	4.86	-144.49	64.01	97.74	202.96	192.38	10.58	19.182	
1,300.00	1,279.86	1,300.02	1,291.63	5.51	5.12	-145.25	57.13	109.85	220.70	209.59	11.11	19.858	
1,400.00	1,375.95	1,401.64	1,389.02	5.93	5.40	-145.90	50.25	121.97	238.47	226.79	11.68	20.419	
1,500.00	1,472.04	1,503.27	1,486.40	6.36	5.69	-146.46	43.37	134.08	256.27	244.01	12.27	20.894	
1,600.00	1,568.13	1,604.89	1,583.78	6.81	5.99	-146.94	36.49	146.19	274.09	261.22	12.87	21.300	
1,700.00	1,664.21	1,706.52	1,681.17	7.27	6.30	-147.37	29.61	158.30	291.93	278.44	13.49	21.646	
1,800.00	1,760.30	1,808.15	1,778.55	7.74	6.59	-147.75	22.73	170.41	309.78	295.67	14.11	21.961	
1,900.00	1,856.39	1,909.77	1,875.93	8.01	6.75	-148.09	15.85	182.52	327.64	313.58	14.06	23.301	
2,000.00	1,952.48	1,988.60	1,973.32	8.07	6.78	-148.39	8.97	194.63	345.51	331.40	14.11	24.485	
2,100.00	2,048.56	2,086.98	2,070.70	8.17	6.82	-148.66	2.09	206.74	363.39	349.19	14.20	25.590	
2,200.00	2,144.65	2,185.35	2,168.08	8.28	6.88	-148.91	-4.80	218.86	381.27	366.95	14.32	26.618	
2,300.00	2,240.74	2,283.73	2,265.47	8.42	6.96	-149.13	-11.68	230.97	399.17	384.69	14.48	27.565	
2,400.00	2,336.83	2,382.10	2,362.85	8.58	7.04	-149.34	-18.56	243.08	417.07	402.40	14.67	28.430	
2,500.00	2,432.91	2,480.48	2,460.23	8.75	7.14	-149.53	-25.44	255.19	434.97	420.08	14.89	29.213	
2,600.00	2,529.00	2,578.85	2,557.62	8.95	7.26	-149.70	-32.32	267.30	452.88	437.74	15.14	29.915	
2,700.00	2,625.09	2,677.23	2,655.00	9.16	7.39	-149.86	-39.20	279.41	470.79	455.37	15.42	30.540	
2,800.00	2,721.18	2,775.60	2,752.39	9.39	7.52	-150.01	-46.08	291.52	488.70	472.98	15.72	31.092	
2,900.00	2,817.26	2,873.98	2,849.77	9.63	7.67	-150.15	-52.96	303.63	506.62	490.57	16.05	31.575	
3,000.00	2,913.35	2,972.35	2,947.15	9.89	7.83	-150.28	-59.84	315.75	524.54	508.14	16.40	31.993	
3,100.00	3,009.44	3,070.73	3,044.54	10.15	8.00	-150.40	-66.72	327.86	542.46	525.70	16.77	32.353	
3,200.00	3,105.53	3,169.10	3,141.92	10.43	8.18	-150.51	-73.60	339.97	560.39	543.23	17.16	32.660	
3,300.00	3,201.61	3,267.47	3,239.30	10.73	8.36	-150.61	-80.48	352.08	578.31	560.74	17.57	32.918	
3,400.00	3,297.70	3,365.85	3,336.69	11.03	8.56	-150.71	-87.36	364.19	596.24	578.25	18.00	33.133	
3,500.00	3,393.79	3,464.22	3,434.07	11.34	8.76	-150.81	-94.24	376.30	614.17	595.73	18.44	33.309	
3,600.00	3,489.88	3,562.60	3,531.45	11.66	8.97	-150.89	-101.12	388.41	632.10	613.21	18.90	33.540	
3,700.00	3,585.96	3,660.97	3,628.84	11.98	9.18	-150.98	-108.00	400.53	650.04	630.67	19.37	33.561	
3,800.00	3,682.05	3,759.35	3,726.22	12.32	9.41	-151.06	-114.88	412.64	667.97	648.12	19.85	33.646	
3,900.00	3,778.14	3,857.72	3,823.60	12.66	9.63	-151.13	-121.76	424.75	685.91	665.56	20.35	33.707	
4,000.00	3,874.23	3,956.10	3,920.99	13.00	9.86	-151.20	-128.64	436.86	703.84	682.99	20.86	33.748	
4,100.00	3,970.32	4,054.47	4,018.37	13.35	10.10	-151.27	-135.52	448.97	721.78	700.41	21.37	33.770	
4,200.00	4,066.40	4,152.85	4,115.75	13.71	10.34	-151.33	-142.40	461.08	739.72	717.82	21.90	33.778	
4,300.00	4,162.49	4,251.22	4,213.14	14.07	10.59	-151.39	-149.28	473.19	757.66	735.22	22.43	33.771	
4,400.00	4,258.58	4,349.60	4,310.52	14.44	10.84	-151.45	-156.16	485.30	775.60	752.62	22.98	33.754	
4,500.00	4,354.67	4,447.97	4,407.91	14.81	11.09	-151.51	-163.04	497.42	793.54	770.01	23.53	33.726	
4,600.00	4,450.75	4,546.35	4,505.29	15.18	11.35	-151.56	-169.92	509.53	811.48	787.39	24.09	33.690	
4,700.00	4,546.84	4,644.72	4,602.67	15.56	11.61	-151.61	-176.80	521.64	829.42	804.77	24.65	33.647	
4,800.00	4,642.93	4,743.09	4,700.06	15.94	11.87	-151.66	-183.68	533.75	847.36	822.14	25.22	33.598	
4,900.00	4,739.02	4,841.47	4,797.44	16.32	12.14	-151.71	-190.56	545.86	865.31	839.51	25.80	33.544	
5,000.00	4,835.10	4,939.84	4,894.82	16.71	12.40	-151.75	-197.44	557.97	883.25	856.87	26.38	33.485	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
5,100.00	4,931.19	5,038.22	4,992.21	17.10	12.67	-151.79	-204.32	570.08	901.19	874.23	26.96	33.423	
5,200.00	5,027.28	5,136.59	5,089.59	17.49	12.95	-151.84	-211.20	582.19	919.14	891.58	27.55	33.358	
5,300.00	5,123.37	5,234.97	5,186.97	17.88	13.22	-151.88	-218.08	594.31	937.08	908.93	28.15	33.290	
5,400.00	5,219.45	5,333.34	5,284.36	18.28	13.50	-151.91	-224.96	606.42	955.03	926.28	28.75	33.221	
5,500.00	5,315.54	5,431.72	5,381.74	18.67	13.78	-151.95	-231.84	618.53	972.97	943.62	29.35	33.150	
5,600.00	5,411.63	5,530.09	5,479.12	19.07	14.06	-151.99	-238.72	630.64	990.92	960.96	29.96	33.079	
5,700.00	5,507.72	5,628.47	5,576.51	19.47	14.34	-152.02	-245.60	642.75	1,008.87	978.30	30.57	33.006	
5,800.00	5,603.80	5,726.84	5,673.89	19.88	14.63	-152.05	-252.48	654.86	1,026.81	995.64	31.18	32.933	
5,900.00	5,699.89	5,825.22	5,771.28	20.28	14.91	-152.09	-259.36	666.97	1,044.76	1,012.97	31.79	32.860	
6,000.00	5,795.98	5,923.59	5,868.66	20.69	15.20	-152.12	-266.24	679.08	1,062.71	1,030.30	32.41	32.787	
6,100.00	5,892.07	6,021.97	5,966.04	21.09	15.49	-152.15	-273.12	691.20	1,080.66	1,047.62	33.03	32.714	
6,200.00	5,988.15	6,120.34	6,063.43	21.50	15.78	-152.17	-280.00	703.31	1,098.60	1,064.95	33.66	32.641	
6,300.00	6,084.24	6,218.71	6,160.81	21.91	16.07	-152.20	-286.88	715.42	1,116.55	1,082.27	34.28	32.568	
6,400.00	6,180.33	6,317.09	6,258.19	22.32	16.36	-152.23	-293.76	727.53	1,134.50	1,099.59	34.91	32.496	
6,500.00	6,276.42	6,415.46	6,355.58	22.74	16.65	-152.26	-300.64	739.64	1,152.45	1,116.91	35.54	32.425	
6,600.00	6,372.51	6,513.84	6,452.96	23.15	16.95	-152.28	-307.52	751.75	1,170.40	1,134.23	36.17	32.354	
6,700.00	6,468.59	6,612.67	6,550.84	23.56	17.22	-152.32	-314.44	763.57	1,188.34	1,151.55	36.79	32.297	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	0.00	20.03	0.00	20.03					
100.00	100.00	100.00	100.00	3.28	3.28	0.00	20.03	0.00	20.03	12.50	7.53	2.661		
200.00	200.00	200.00	200.00	3.31	3.31	0.00	20.03	0.00	20.03	12.46	7.57	2.645		
300.00	300.00	300.58	300.56	3.35	3.35	-151.45	18.50	0.87	18.91	11.25	7.65	2.470		
400.00	399.93	401.10	400.94	3.40	3.41	-147.85	13.90	3.49	17.53	9.77	7.76	2.259		
500.00	499.68	501.55	501.00	3.49	3.49	-143.09	6.25	7.84	16.34	8.43	7.91	2.065		
600.00	599.13	601.94	600.62	3.59	3.61	-137.07	-4.43	13.93	15.39	7.28	8.12	1.897		
700.00	698.15	702.26	699.69	3.73	3.76	-129.85	-18.13	21.73	14.79	6.39	8.39	1.762		
794.01	790.75	796.52	792.22	3.90	3.95	-122.23	-33.75	30.61	14.59	5.85	8.74	1.669 CC		
800.00	796.63	802.52	798.09	3.91	3.96	-121.72	-34.83	31.23	14.59	5.82	8.76	1.665		
900.00	894.44	902.71	895.68	4.14	4.21	-113.24	-54.49	42.42	14.86	5.61	9.25	1.606		
1,000.00	991.46	1,002.72	992.59	4.42	4.51	-109.67	-75.96	54.64	15.94	6.12	9.82	1.623		
1,100.00	1,087.69	1,102.67	1,089.44	4.75	4.84	-115.92	-97.45	66.87	18.20	7.81	10.39	1.752		
1,200.00	1,183.78	1,202.61	1,186.28	5.12	5.20	-121.96	-118.93	79.10	20.90	9.93	10.97	1.905		
1,300.00	1,279.86	1,302.56	1,283.11	5.51	5.57	-126.59	-140.41	91.33	23.78	12.21	11.57	2.055		
1,400.00	1,375.95	1,402.50	1,379.95	5.93	5.96	-130.19	-161.90	103.56	26.77	14.59	12.18	2.198		
1,500.00	1,472.04	1,502.44	1,476.79	6.36	6.37	-133.07	-183.38	115.79	29.85	17.04	12.81	2.330		
1,600.00	1,568.13	1,602.38	1,573.63	6.81	6.79	-135.40	-204.86	128.02	33.00	19.54	13.45	2.453		
1,700.00	1,664.21	1,702.33	1,670.46	7.27	7.21	-137.32	-226.35	140.25	36.18	22.08	14.11	2.565		
1,800.00	1,760.30	1,802.27	1,767.30	7.74	7.64	-138.93	-247.83	152.48	39.41	24.64	14.77	2.668		
1,900.00	1,856.39	1,902.21	1,864.14	8.01	7.88	-140.30	-269.31	164.70	42.65	27.94	14.72	2.898		
2,000.00	1,952.48	2,002.15	1,960.97	8.07	7.94	-141.47	-290.79	176.93	45.92	31.19	14.74	3.116		
2,100.00	2,048.56	2,102.10	2,057.81	8.17	8.03	-142.48	-312.28	189.16	49.21	34.41	14.80	3.325		
2,200.00	2,144.65	2,202.04	2,154.65	8.28	8.13	-143.37	-333.76	201.39	52.51	37.60	14.91	3.522		
2,300.00	2,240.74	2,301.98	2,251.49	8.42	8.25	-144.16	-355.24	213.62	55.82	40.76	15.06	3.707		
2,400.00	2,336.83	2,401.92	2,348.32	8.58	8.39	-144.85	-376.73	225.85	59.13	43.89	15.25	3.878		
2,500.00	2,432.91	2,501.86	2,445.16	8.75	8.55	-145.47	-398.21	238.08	62.46	46.99	15.47	4.037		
2,600.00	2,529.00	2,601.81	2,542.00	8.95	8.72	-146.03	-419.69	250.31	65.79	50.06	15.73	4.182		
2,700.00	2,625.09	2,701.75	2,638.83	9.16	8.92	-146.54	-441.17	262.53	69.13	53.11	16.03	4.313		
2,800.00	2,721.18	2,801.69	2,735.67	9.39	9.12	-146.99	-462.66	274.76	72.48	56.13	16.35	4.432		
2,900.00	2,817.26	2,901.63	2,832.51	9.63	9.34	-147.41	-484.14	286.99	75.83	59.12	16.70	4.539		
3,000.00	2,913.35	3,001.58	2,929.35	9.89	9.57	-147.79	-505.62	299.22	79.18	62.09	17.08	4.635		
3,100.00	3,009.44	3,101.52	3,026.18	10.15	9.81	-148.15	-527.11	311.45	82.53	65.05	17.49	4.720		
3,200.00	3,105.53	3,201.46	3,123.02	10.43	10.07	-148.47	-548.59	323.68	85.89	67.98	17.91	4.795		
3,300.00	3,201.61	3,301.40	3,219.86	10.73	10.33	-148.77	-570.07	335.91	89.25	70.89	18.36	4.861		
3,400.00	3,297.70	3,401.35	3,316.70	11.03	10.61	-149.05	-591.55	348.14	92.61	73.79	18.83	4.920		
3,500.00	3,393.79	3,501.29	3,413.53	11.34	10.89	-149.30	-613.04	360.36	95.98	76.67	19.31	4.971		
3,600.00	3,489.88	3,601.23	3,510.37	11.66	11.18	-149.55	-634.52	372.59	99.35	79.54	19.81	5.015		
3,700.00	3,585.96	3,701.17	3,607.21	11.98	11.48	-149.77	-656.00	384.82	102.71	82.39	20.32	5.054		
3,800.00	3,682.05	3,801.12	3,704.04	12.32	11.79	-149.98	-677.48	397.05	106.08	85.23	20.85	5.087		
3,900.00	3,778.14	3,901.06	3,800.88	12.66	12.10	-150.18	-698.97	409.28	109.45	88.06	21.40	5.116		
4,000.00	3,874.23	4,001.00	3,897.72	13.00	12.42	-150.36	-720.45	421.51	112.83	90.88	21.95	5.141		
4,100.00	3,970.32	4,100.94	3,994.56	13.35	12.74	-150.54	-741.93	433.74	116.20	93.69	22.51	5.162		
4,200.00	4,066.40	4,200.89	4,091.39	13.71	13.07	-150.71	-763.42	445.97	119.57	96.49	23.09	5.179		
4,300.00	4,162.49	4,300.83	4,188.23	14.07	13.40	-150.86	-784.90	458.19	122.95	99.28	23.67	5.194		
4,400.00	4,258.58	4,400.77	4,285.07	14.44	13.74	-151.01	-806.38	470.42	126.33	102.06	24.26	5.207		
4,500.00	4,354.67	4,500.71	4,381.90	14.81	14.08	-151.15	-827.86	482.65	129.70	104.84	24.86	5.217		
4,600.00	4,450.75	4,600.66	4,478.74	15.18	14.43	-151.28	-849.35	494.88	133.08	107.61	25.47	5.225		
4,700.00	4,546.84	4,700.60	4,575.58	15.56	14.77	-151.41	-870.83	507.11	136.46	110.38	26.08	5.232		
4,800.00	4,642.93	4,800.54	4,672.42	15.94	15.13	-151.53	-892.31	519.34	139.84	113.14	26.70	5.237		
4,900.00	4,739.02	4,900.48	4,769.25	16.32	15.48	-151.64	-913.80	531.57	143.22	115.89	27.33	5.241		
5,000.00	4,835.10	5,000.43	4,866.09	16.71	15.84	-151.75	-935.28	543.80	146.60	118.64	27.96	5.243		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,931.19	5,100.37	4,962.93	17.10	16.20	-151.86	-956.76	556.02	149.98	121.38	28.59	5.245		
5,200.00	5,027.28	5,200.31	5,059.76	17.49	16.56	-151.96	-978.24	568.25	153.36	124.12	29.24	5.246		
5,300.00	5,123.37	5,300.25	5,156.60	17.88	16.93	-152.05	-999.73	580.48	156.74	126.86	29.88	5.246		
5,400.00	5,219.45	5,400.20	5,253.44	18.28	17.29	-152.14	-1,021.21	592.71	160.12	129.59	30.53	5.245		
5,500.00	5,315.54	5,500.14	5,350.28	18.67	17.66	-152.23	-1,042.69	604.94	163.51	132.32	31.18	5.243		
5,600.00	5,411.63	5,600.08	5,447.11	19.07	18.03	-152.32	-1,064.18	617.17	166.89	135.05	31.84	5.242		
5,700.00	5,507.72	5,700.02	5,543.95	19.47	18.41	-152.40	-1,085.66	629.40	170.27	137.77	32.50	5.239		
5,800.00	5,603.80	5,799.97	5,640.79	19.88	18.78	-152.47	-1,107.14	641.63	173.66	140.49	33.16	5.236		
5,900.00	5,699.89	5,900.09	5,737.63	20.28	19.16	-152.55	-1,128.62	653.85	177.04	143.21	33.83	5.233		
6,000.00	5,795.98	6,000.15	5,834.46	20.69	19.54	-152.62	-1,150.11	666.08	180.42	145.92	34.50	5.230		
6,100.00	5,892.07	6,100.21	5,931.30	21.09	19.91	-152.69	-1,171.59	678.31	183.81	148.64	35.17	5.226		
6,200.00	5,988.15	6,200.26	6,028.14	21.50	20.30	-152.76	-1,193.07	690.54	187.19	151.35	35.85	5.222		
6,300.00	6,084.24	6,300.32	6,124.97	21.91	20.68	-152.82	-1,214.56	702.77	190.58	154.05	36.52	5.218		
6,400.00	6,180.33	6,400.38	6,221.81	22.32	21.06	-152.88	-1,236.04	715.00	193.96	156.76	37.20	5.214		
6,500.00	6,276.42	6,499.56	6,318.65	22.74	21.44	-152.94	-1,257.52	727.23	197.35	159.47	37.88	5.210		
6,600.00	6,372.51	6,599.51	6,415.49	23.15	21.83	-153.00	-1,279.00	739.46	200.73	162.17	38.56	5.205		
6,700.00	6,468.59	6,700.55	6,512.32	23.56	22.22	-153.06	-1,300.49	751.68	204.12	164.87	39.25	5.200		
6,800.00	6,565.18	6,799.93	6,610.02	23.88	22.52	176.76	-1,322.15	759.96	207.59	167.66	39.93	5.199		
6,900.00	6,661.43	6,901.08	6,708.43	24.11	22.75	147.53	-1,343.95	752.95	211.09	170.62	40.47	5.217		
7,000.00	6,754.97	7,002.73	6,805.00	24.30	22.92	130.65	-1,365.32	729.93	214.52	173.66	40.86	5.250		
7,100.00	6,843.50	7,104.87	6,897.19	24.44	23.05	121.59	-1,385.69	691.25	217.78	176.65	41.14	5.294		
7,200.00	6,924.84	7,207.43	6,982.50	24.53	23.13	116.39	-1,404.52	637.74	220.79	179.46	41.32	5.343		
7,300.00	6,996.99	7,310.37	7,058.59	24.58	23.17	113.17	-1,421.28	570.65	223.45	181.96	41.48	5.386		
7,400.00	7,058.17	7,413.59	7,123.32	24.59	23.16	111.07	-1,435.50	491.65	225.68	183.99	41.69	5.413		
7,500.00	7,106.87	7,517.02	7,174.83	24.57	23.12	109.65	-1,446.78	402.80	227.44	185.41	42.03	5.412		
7,600.00	7,141.90	7,620.56	7,211.67	24.51	23.05	108.69	-1,454.79	306.49	228.65	186.10	42.55	5.373		
7,700.00	7,162.39	7,724.12	7,232.80	24.43	22.95	108.07	-1,459.31	205.33	229.31	186.00	43.31	5.294		
7,800.00	7,168.02	7,826.92	7,237.97	24.34	22.84	107.75	-1,460.30	102.76	229.40	185.10	44.30	5.179		
7,900.00	7,168.16	7,926.92	7,237.84	24.28	22.76	107.69	-1,460.11	2.76	229.33	183.84	45.49	5.041		
8,000.00	7,168.30	8,026.92	7,237.72	24.29	22.79	107.62	-1,459.92	-97.24	229.27	182.40	46.88	4.891		
8,100.00	7,168.44	8,126.92	7,237.59	24.47	23.14	107.56	-1,459.74	-197.23	229.21	180.77	48.44	4.732		
8,200.00	7,168.58	8,226.92	7,237.46	24.93	23.90	107.49	-1,459.55	-297.23	229.15	178.99	50.16	4.568		
8,300.00	7,168.72	8,326.92	7,237.33	25.68	24.83	107.43	-1,459.36	-397.23	229.09	177.06	52.02	4.403		
8,400.00	7,168.87	8,426.91	7,237.20	26.59	25.85	107.36	-1,459.18	-497.23	229.02	175.00	54.02	4.240		
8,500.00	7,169.01	8,526.91	7,237.07	27.61	26.93	107.29	-1,458.99	-597.23	228.96	172.83	56.13	4.079		
8,600.00	7,169.15	8,626.91	7,236.95	28.71	28.07	107.23	-1,458.80	-697.23	228.90	170.55	58.35	3.923		
8,700.00	7,169.29	8,726.91	7,236.82	29.86	29.26	107.16	-1,458.62	-797.23	228.84	168.18	60.66	3.773		
8,800.00	7,169.43	8,826.91	7,236.69	31.06	30.49	107.10	-1,458.43	-897.23	228.78	165.73	63.05	3.629		
8,900.00	7,169.57	8,926.91	7,236.56	32.30	31.76	107.03	-1,458.24	-997.23	228.72	163.21	65.51	3.491		
9,000.00	7,169.71	9,026.91	7,236.43	33.58	33.07	106.96	-1,458.06	-1,097.23	228.66	160.62	68.04	3.361		
9,100.00	7,169.86	9,126.91	7,236.30	34.89	34.41	106.90	-1,457.87	-1,197.23	228.60	157.97	70.63	3.237		
9,200.00	7,170.00	9,226.91	7,236.18	36.23	35.77	106.83	-1,457.68	-1,297.23	228.54	155.27	73.27	3.119		
9,300.00	7,170.14	9,326.91	7,236.05	37.60	37.15	106.77	-1,457.49	-1,397.23	228.48	152.53	75.96	3.008		
9,400.00	7,170.28	9,426.91	7,235.92	38.99	38.56	106.70	-1,457.31	-1,497.23	228.43	149.74	78.69	2.903		
9,500.00	7,170.42	9,526.91	7,235.79	40.40	39.99	106.63	-1,457.12	-1,597.23	228.37	146.91	81.46	2.803		
9,600.00	7,170.56	9,626.91	7,235.66	41.82	41.43	106.57	-1,456.93	-1,697.23	228.31	144.05	84.27	2.709		
9,700.00	7,170.70	9,726.91	7,235.53	43.27	42.90	106.50	-1,456.75	-1,797.22	228.25	141.15	87.10	2.621		
9,800.00	7,170.84	9,826.91	7,235.41	44.73	44.37	106.43	-1,456.56	-1,897.22	228.20	138.23	89.97	2.536		
9,900.00	7,170.99	9,926.91	7,235.28	46.20	45.86	106.37	-1,456.37	-1,997.22	228.14	135.28	92.86	2.457		
10,000.00	7,171.13	10,026.91	7,235.15	47.69	47.36	106.30	-1,456.19	-2,097.22	228.08	132.31	95.77	2.381		
10,100.00	7,171.27	10,126.91	7,235.02	49.19	48.87	106.24	-1,456.00	-2,197.22	228.03	129.32	98.71	2.310		
10,200.00	7,171.41	10,226.91	7,234.89	50.70	50.39	106.17	-1,455.81	-2,297.22	227.97	126.30	101.67	2.242		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,300.00	7,171.55	10,326.91	7,234.76	52.22	51.92	106.10	-1,455.63	-2,397.22	227.91	123.27	104.64	2.178		
10,400.00	7,171.69	10,426.91	7,234.64	53.74	53.46	106.04	-1,455.44	-2,497.22	227.86	120.22	107.64	2.117		
10,500.00	7,171.83	10,526.91	7,234.51	55.28	55.00	105.97	-1,455.25	-2,597.22	227.80	117.16	110.65	2.059		
10,600.00	7,171.97	10,626.91	7,234.38	56.82	56.56	105.90	-1,455.07	-2,697.22	227.75	114.08	113.67	2.004		
10,700.00	7,172.12	10,726.91	7,234.25	58.37	58.11	105.84	-1,454.88	-2,797.22	227.70	110.99	116.71	1.951		
10,800.00	7,172.26	10,826.91	7,234.12	59.93	59.68	105.77	-1,454.69	-2,897.22	227.64	107.88	119.76	1.901		
10,900.00	7,172.40	10,926.91	7,233.99	61.49	61.25	105.70	-1,454.51	-2,997.22	227.59	104.76	122.82	1.853		
11,000.00	7,172.54	11,026.91	7,233.87	63.05	62.82	105.64	-1,454.32	-3,097.22	227.53	101.64	125.90	1.807		
11,100.00	7,172.68	11,126.91	7,233.74	64.63	64.40	105.57	-1,454.13	-3,197.22	227.48	98.50	128.98	1.764		
11,200.00	7,172.82	11,226.90	7,233.61	66.20	65.99	105.50	-1,453.95	-3,297.22	227.43	95.35	132.08	1.722		
11,300.00	7,172.96	11,326.90	7,233.48	67.78	67.58	105.44	-1,453.76	-3,397.22	227.38	92.19	135.18	1.682		
11,400.00	7,173.11	11,426.90	7,233.35	69.37	69.17	105.37	-1,453.57	-3,497.21	227.32	89.03	138.29	1.644		
11,500.00	7,173.25	11,526.90	7,233.22	70.96	70.77	105.30	-1,453.39	-3,597.21	227.27	85.86	141.41	1.607		
11,600.00	7,173.39	11,626.90	7,233.10	72.55	72.36	105.23	-1,453.20	-3,697.21	227.22	82.68	144.54	1.572		
11,700.00	7,173.53	11,726.90	7,232.97	74.15	73.97	105.17	-1,453.01	-3,797.21	227.17	79.49	147.68	1.538		
11,800.00	7,173.67	11,826.90	7,232.84	75.75	75.57	105.10	-1,452.83	-3,897.21	227.12	76.30	150.82	1.506		
11,900.00	7,173.81	11,926.90	7,232.71	77.35	77.18	105.03	-1,452.64	-3,997.21	227.07	73.10	153.97	1.475 Level 3		
12,000.00	7,173.95	12,026.90	7,232.58	78.96	78.79	104.97	-1,452.45	-4,097.21	227.02	69.89	157.13	1.445 Level 3		
12,100.00	7,174.09	12,126.90	7,232.45	80.56	80.40	104.90	-1,452.27	-4,197.21	226.97	66.68	160.29	1.416 Level 3		
12,200.00	7,174.24	12,226.90	7,232.33	82.18	82.02	104.83	-1,452.08	-4,297.21	226.92	63.46	163.46	1.388 Level 3		
12,300.00	7,174.38	12,326.90	7,232.20	83.79	83.64	104.77	-1,451.89	-4,397.21	226.87	60.24	166.63	1.362 Level 3		
12,400.00	7,174.52	12,426.90	7,232.07	85.40	85.26	104.70	-1,451.71	-4,497.21	226.82	57.01	169.81	1.336 Level 3		
12,500.00	7,174.66	12,526.90	7,231.94	87.02	86.88	104.63	-1,451.52	-4,597.21	226.77	53.78	172.99	1.311 Level 3		
12,600.00	7,174.80	12,626.90	7,231.81	88.64	88.50	104.56	-1,451.33	-4,697.21	226.72	50.54	176.18	1.287 Level 3		
12,700.00	7,174.94	12,726.90	7,231.69	90.26	90.13	104.50	-1,451.15	-4,797.21	226.67	47.30	179.37	1.264 Level 3		
12,800.00	7,175.08	12,826.90	7,231.56	91.88	91.75	104.43	-1,450.96	-4,897.21	226.62	44.05	182.57	1.241 Level 2		
12,900.00	7,175.23	12,926.90	7,231.43	93.51	93.38	104.36	-1,450.77	-4,997.21	226.58	40.81	185.77	1.220 Level 2		
13,000.00	7,175.37	13,026.90	7,231.30	95.13	95.01	104.30	-1,450.59	-5,097.20	226.53	37.55	188.98	1.199 Level 2		
13,100.00	7,175.51	13,126.90	7,231.17	96.76	96.64	104.23	-1,450.40	-5,197.20	226.48	34.30	192.19	1.178 Level 2		
13,200.00	7,175.65	13,226.90	7,231.04	98.39	98.28	104.16	-1,450.21	-5,297.20	226.44	31.04	195.40	1.159 Level 2		
13,300.00	7,175.79	13,326.90	7,230.92	100.02	99.91	104.09	-1,450.03	-5,397.20	226.39	27.77	198.62	1.140 Level 2		
13,400.00	7,175.93	13,426.90	7,230.79	101.65	101.54	104.03	-1,449.84	-5,497.20	226.34	24.50	201.84	1.121 Level 2		
13,500.00	7,176.07	13,526.90	7,230.66	103.29	103.18	103.96	-1,449.65	-5,597.20	226.30	21.23	205.06	1.104 Level 2		
13,600.00	7,176.21	13,626.90	7,230.53	104.92	104.82	103.89	-1,449.47	-5,697.20	226.25	17.96	208.29	1.086 Level 2		
13,700.00	7,176.36	13,726.90	7,230.40	106.55	106.46	103.82	-1,449.28	-5,797.20	226.21	14.69	211.52	1.069 Level 2		
13,800.00	7,176.50	13,826.90	7,230.27	108.19	108.10	103.76	-1,449.09	-5,897.20	226.16	11.41	214.76	1.053 Level 2		
13,900.00	7,176.64	13,926.89	7,230.15	109.83	109.74	103.69	-1,448.91	-5,997.20	226.12	8.13	217.99	1.037 Level 2		
14,000.00	7,176.78	14,026.89	7,230.02	111.47	111.38	103.62	-1,448.72	-6,097.20	226.07	4.84	221.23	1.022 Level 2		
14,100.00	7,176.92	14,126.89	7,229.89	113.11	113.02	103.55	-1,448.53	-6,197.20	226.03	1.55	224.48	1.007 Level 2		
14,200.00	7,177.06	14,226.89	7,229.76	114.75	114.66	103.48	-1,448.35	-6,297.20	225.99	-1.74	227.72	0.992 Level 1		
14,300.00	7,177.20	14,326.89	7,229.63	116.39	116.31	103.42	-1,448.16	-6,397.20	225.94	-5.03	230.97	0.978 Level 1		
14,400.00	7,177.35	14,426.89	7,229.50	118.03	117.95	103.35	-1,447.97	-6,497.20	225.90	-8.32	234.22	0.964 Level 1		
14,500.00	7,177.49	14,526.89	7,229.38	119.67	119.60	103.28	-1,447.79	-6,597.20	225.86	-11.62	237.48	0.951 Level 1		
14,600.00	7,177.63	14,626.89	7,229.25	121.32	121.24	103.21	-1,447.60	-6,697.19	225.82	-14.92	240.73	0.938 Level 1		
14,700.00	7,177.77	14,726.89	7,229.12	122.96	122.89	103.15	-1,447.41	-6,797.19	225.77	-18.22	243.99	0.925 Level 1		
14,800.00	7,177.91	14,826.89	7,228.99	124.61	124.54	103.08	-1,447.23	-6,897.19	225.73	-21.52	247.25	0.913 Level 1		
14,900.00	7,178.05	14,926.89	7,228.86	126.25	126.18	103.01	-1,447.04	-6,997.19	225.69	-24.82	250.52	0.901 Level 1		
15,000.00	7,178.19	15,026.89	7,228.73	127.90	127.83	102.94	-1,446.85	-7,097.19	225.65	-28.13	253.78	0.889 Level 1		
15,100.00	7,178.33	15,126.89	7,228.61	129.55	129.48	102.87	-1,446.67	-7,197.19	225.61	-31.44	257.05	0.878 Level 1		
15,200.00	7,178.48	15,226.89	7,228.48	131.19	131.13	102.81	-1,446.48	-7,297.19	225.57	-34.75	260.32	0.867 Level 1		
15,300.00	7,178.62	15,326.89	7,228.35	132.84	132.78	102.74	-1,446.29	-7,397.19	225.53	-38.06	263.59	0.856 Level 1		
15,400.00	7,178.76	15,426.89	7,228.22	134.49	134.43	102.67	-1,446.11	-7,497.19	225.49	-41.38	266.87	0.845 Level 1		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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
5N-66W-29 SANFORD 21-29 PAD - SANFORD 32N-30C-M - Wellbore #1 - Design #1												Offset Well Error:	3.28 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,178.90	15,526.89	7,228.09	136.14	136.08	102.60	-1,445.92	-7,597.19	225.45	-44.69	270.14	0.835 Level 1	
15,571.56	7,179.00	15,598.44	7,228.00	137.39	137.27	102.55	-1,445.79	-7,668.74	225.42	-47.06	272.49	0.827 Level 1, ES, SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1													Offset Site Error: 0.00 usft	
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error: 3.28 usft	
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-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		
200.38	200.38	201.38	201.38	3.31	3.31	-82.81	18.94	-150.17	151.36	143.79	7.57	19.983	CC, ES	
300.00	300.00	301.37	301.35	3.35	3.35	123.15	17.15	-150.26	151.47	143.82	7.66	19.786		
400.00	399.93	401.65	401.48	3.40	3.41	122.24	11.85	-150.52	153.05	145.28	7.77	19.703		
500.00	499.68	501.78	501.22	3.49	3.49	121.13	3.08	-150.96	156.35	148.42	7.93	19.712		
600.00	599.13	601.72	600.40	3.59	3.60	119.86	-9.15	-151.57	161.41	153.25	8.15	19.792		
700.00	698.15	701.43	698.87	3.73	3.75	118.50	-24.78	-152.35	168.22	159.78	8.45	19.917		
800.00	796.63	800.86	796.47	3.91	3.95	117.08	-43.76	-153.29	176.81	168.00	8.82	20.056		
900.00	894.44	900.24	893.53	4.14	4.18	115.99	-65.04	-154.35	187.13	177.86	9.27	20.189		
1,000.00	991.46	1,000.47	990.50	4.42	4.45	115.86	-86.37	-155.41	198.98	189.18	9.80	20.303		
1,100.00	1,087.69	1,101.40	1,087.26	4.75	4.74	116.57	-107.65	-156.47	212.21	201.81	10.40	20.396		
1,200.00	1,183.78	1,202.36	1,183.97	5.12	5.06	117.42	-128.93	-157.53	225.72	214.66	11.06	20.411		
1,300.00	1,279.86	1,303.33	1,280.68	5.51	5.39	118.18	-150.20	-158.59	239.26	227.51	11.75	20.360		
1,400.00	1,375.95	1,404.30	1,377.40	5.93	5.74	118.86	-171.47	-159.65	252.85	240.37	12.48	20.264		
1,500.00	1,472.04	1,505.27	1,474.11	6.36	6.10	119.47	-192.75	-160.71	266.46	253.23	13.23	20.142		
1,600.00	1,568.13	1,606.24	1,570.82	6.81	6.47	120.01	-214.02	-161.77	280.10	266.10	14.00	20.004		
1,700.00	1,664.21	1,707.21	1,667.54	7.27	6.85	120.51	-235.29	-162.83	293.77	278.97	14.79	19.858		
1,800.00	1,760.30	1,808.18	1,764.25	7.74	7.22	120.97	-256.56	-163.89	307.45	291.86	15.58	19.728		
1,900.00	1,856.39	1,909.14	1,860.97	8.01	7.42	121.38	-277.84	-164.95	321.15	305.51	15.64	20.537		
2,000.00	1,952.48	1,989.89	1,957.68	8.07	7.46	121.76	-299.11	-166.01	334.87	319.14	15.73	21.289		
2,100.00	2,048.56	2,088.92	2,054.39	8.17	7.53	122.11	-320.38	-167.07	348.59	332.72	15.87	21.965		
2,200.00	2,144.65	2,187.95	2,151.11	8.28	7.62	122.44	-341.66	-168.13	362.34	346.28	16.05	22.573		
2,300.00	2,240.74	2,286.98	2,247.82	8.42	7.73	122.74	-362.93	-169.18	376.09	359.82	16.27	23.113		
2,400.00	2,336.83	2,386.01	2,344.53	8.58	7.85	123.02	-384.20	-170.24	389.85	373.32	16.53	23.586		
2,500.00	2,432.91	2,485.04	2,441.25	8.75	7.99	123.28	-405.47	-171.30	403.62	386.80	16.82	23.995		
2,600.00	2,529.00	2,584.08	2,537.96	8.95	8.14	123.52	-426.75	-172.36	417.40	400.25	17.15	24.343		
2,700.00	2,625.09	2,683.11	2,634.68	9.16	8.31	123.75	-448.02	-173.42	431.18	413.68	17.50	24.635		
2,800.00	2,721.18	2,782.14	2,731.39	9.39	8.49	123.96	-469.29	-174.48	444.97	427.08	17.89	24.875		
2,900.00	2,817.26	2,881.17	2,828.10	9.63	8.69	124.16	-490.57	-175.54	458.77	440.46	18.30	25.067		
3,000.00	2,913.35	2,980.20	2,924.82	9.89	8.89	124.35	-511.84	-176.60	472.57	453.83	18.74	25.217		
3,100.00	3,009.44	3,079.23	3,021.53	10.15	9.11	124.53	-533.11	-177.66	486.37	467.17	19.20	25.329		
3,200.00	3,105.53	3,178.26	3,118.25	10.43	9.34	124.70	-554.39	-178.72	500.18	480.50	19.69	25.408		
3,300.00	3,201.61	3,277.29	3,214.96	10.73	9.58	124.85	-575.66	-179.78	514.00	493.81	20.19	25.458		
3,400.00	3,297.70	3,376.33	3,311.67	11.03	9.82	125.01	-596.93	-180.84	527.82	507.10	20.71	25.482		
3,500.00	3,393.79	3,475.36	3,408.39	11.34	10.08	125.15	-618.20	-181.89	541.64	520.38	21.25	25.485		
3,600.00	3,489.88	3,574.39	3,505.10	11.66	10.34	125.28	-639.48	-182.95	555.46	533.65	21.81	25.469		
3,700.00	3,585.96	3,673.42	3,601.81	11.98	10.61	125.41	-660.75	-184.01	569.29	546.91	22.38	25.437		
3,800.00	3,682.05	3,772.45	3,698.53	12.32	10.89	125.54	-682.02	-185.07	583.12	560.16	22.96	25.392		
3,900.00	3,778.14	3,871.48	3,795.24	12.66	11.17	125.66	-703.30	-186.13	596.95	573.39	23.56	25.336		
4,000.00	3,874.23	3,970.51	3,891.96	13.00	11.46	125.77	-724.57	-187.19	610.79	586.62	24.17	25.271		
4,100.00	3,970.32	4,069.55	3,988.67	13.35	11.75	125.87	-745.84	-188.25	624.63	599.84	24.79	25.198		
4,200.00	4,066.40	4,168.58	4,085.38	13.71	12.05	125.98	-767.11	-189.31	638.47	613.05	25.42	25.119		
4,300.00	4,162.49	4,267.61	4,182.10	14.07	12.35	126.08	-788.39	-190.37	652.31	626.25	26.06	25.035		
4,400.00	4,258.58	4,366.64	4,278.81	14.44	12.66	126.17	-809.66	-191.43	666.15	639.45	26.70	24.948		
4,500.00	4,354.67	4,465.67	4,375.52	14.81	12.97	126.26	-830.93	-192.49	679.99	652.64	27.36	24.857		
4,600.00	4,450.75	4,564.70	4,472.24	15.18	13.28	126.35	-852.21	-193.55	693.84	665.82	28.02	24.764		
4,700.00	4,546.84	4,663.73	4,568.95	15.56	13.60	126.43	-873.48	-194.60	707.69	679.00	28.69	24.670		
4,800.00	4,642.93	4,762.77	4,665.67	15.94	13.92	126.51	-894.75	-195.66	721.54	692.18	29.36	24.575		
4,900.00	4,739.02	4,861.80	4,762.38	16.32	14.24	126.59	-916.03	-196.72	735.39	705.35	30.04	24.479		
5,000.00	4,835.10	4,960.83	4,859.09	16.71	14.57	126.66	-937.30	-197.78	749.24	718.51	30.73	24.384		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design													5N-66W-29 SANFORD 21-29 PAD - SANFORD 40N-27B-XR - Wellbore #1 - Design #1		Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft		
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	4,931.19	5,059.86	4,955.81	17.10	14.90	126.73	-958.57	-198.84	763.09	731.68	31.42	24.288				
5,200.00	5,027.28	5,158.89	5,052.52	17.49	15.23	126.80	-979.84	-199.90	776.95	744.83	32.11	24.194				
5,300.00	5,123.37	5,257.92	5,149.23	17.88	15.56	126.87	-1,001.12	-200.96	790.80	757.99	32.81	24.100				
5,400.00	5,219.45	5,356.95	5,245.95	18.28	15.90	126.93	-1,022.39	-202.02	804.66	771.14	33.52	24.006				
5,500.00	5,315.54	5,455.99	5,342.66	18.67	16.24	127.00	-1,043.66	-203.08	818.52	784.29	34.23	23.915				
5,600.00	5,411.63	5,555.02	5,439.38	19.07	16.58	127.06	-1,064.94	-204.14	832.38	797.44	34.94	23.824				
5,700.00	5,507.72	5,654.05	5,536.09	19.47	16.92	127.11	-1,086.21	-205.20	846.24	810.58	35.65	23.735				
5,800.00	5,603.80	5,753.08	5,632.80	19.88	17.26	127.17	-1,107.48	-206.25	860.10	823.72	36.37	23.647				
5,900.00	5,699.89	5,852.11	5,729.52	20.28	17.60	127.23	-1,128.75	-207.31	873.96	836.86	37.09	23.560				
6,000.00	5,795.98	5,951.14	5,826.23	20.69	17.95	127.28	-1,150.03	-208.37	887.82	850.00	37.82	23.475				
6,100.00	5,892.07	6,050.17	5,922.94	21.09	18.30	127.33	-1,171.30	-209.43	901.68	863.13	38.55	23.392				
6,200.00	5,988.15	6,149.20	6,019.66	21.50	18.64	127.38	-1,192.57	-210.49	915.54	876.27	39.28	23.310				
6,300.00	6,084.24	6,248.24	6,116.37	21.91	18.99	127.43	-1,213.85	-211.55	929.41	889.40	40.01	23.230				
6,400.00	6,180.33	6,347.27	6,213.09	22.32	19.34	127.47	-1,235.12	-212.61	943.27	902.53	40.74	23.152				
6,500.00	6,276.42	7,983.24	7,158.64	22.74	25.30	-179.33	-1,445.88	724.13	881.23	851.17	30.07	29.310				
6,600.00	6,372.51	8,004.45	7,158.63	23.15	25.48	-176.71	-1,445.91	736.44	785.66	754.91	30.75	25.552				
6,700.00	6,468.59	8,007.86	7,158.61	23.56	25.51	-174.00	-1,445.95	748.75	691.12	659.65	31.47	21.959				
6,800.00	6,565.18	8,013.35	7,158.60	23.88	25.56	178.41	-1,445.96	754.24	597.64	565.22	32.42	18.435				
6,900.00	6,661.43	8,003.21	7,158.62	24.11	25.47	165.35	-1,445.93	744.10	506.89	473.30	33.59	15.092				
7,000.00	6,754.97	7,977.65	7,158.65	24.30	25.25	155.89	-1,445.87	718.54	422.45	387.32	35.13	12.026				
7,100.00	6,843.50	7,937.30	7,158.69	24.44	24.92	148.03	-1,445.76	678.19	348.40	311.23	37.17	9.373				
7,200.00	6,924.84	7,883.14	7,158.76	24.53	24.51	139.38	-1,445.61	624.03	289.27	249.63	39.64	7.298				
7,300.00	6,996.99	7,816.52	7,158.84	24.58	24.06	128.91	-1,445.43	557.41	249.08	207.17	41.91	5.943				
7,400.00	7,058.17	7,739.08	7,158.93	24.59	23.61	116.85	-1,445.23	479.97	228.88	185.89	42.99	5.324				
7,488.17	7,101.80	7,663.12	7,158.80	24.57	23.25	106.10	-1,444.98	404.01	224.43	181.75	42.69	5.257 SF				
7,500.00	7,106.87	7,652.61	7,158.46	24.57	23.21	104.69	-1,444.87	393.50	224.50	181.92	42.58	5.272				
7,600.00	7,141.90	7,566.72	7,149.32	24.51	22.89	93.29	-1,442.61	308.20	230.07	188.60	41.47	5.548				
7,700.00	7,162.39	7,485.30	7,130.38	24.43	22.65	83.25	-1,438.21	229.19	243.08	202.81	40.27	6.036				
7,800.00	7,168.02	7,407.43	7,103.20	24.34	22.44	75.09	-1,432.02	156.54	261.04	221.61	39.43	6.621				
7,900.00	7,168.16	7,335.98	7,070.81	24.28	22.27	68.86	-1,424.71	93.32	287.04	248.04	39.00	7.360				
8,000.00	7,168.30	7,273.00	7,036.67	24.29	22.12	63.15	-1,417.04	40.97	324.20	285.18	39.01	8.310				
8,100.00	7,168.44	7,218.07	7,002.90	24.47	21.99	58.29	-1,409.49	-1.66	371.96	332.52	39.44	9.432				
8,200.00	7,168.58	7,170.43	6,970.80	24.93	21.87	54.31	-1,402.33	-36.10	428.86	388.77	40.09	10.697				
8,300.00	7,168.72	7,129.15	6,941.01	25.68	21.77	51.09	-1,395.69	-63.89	493.26	452.44	40.82	12.084				
8,400.00	7,168.87	7,100.00	6,918.94	26.59	21.70	48.97	-1,390.78	-82.29	563.71	522.02	41.69	13.521				
8,500.00	7,169.01	7,062.12	6,889.08	27.61	21.60	46.40	-1,384.15	-104.62	638.76	596.58	42.18	15.144				
8,600.00	7,169.15	7,034.83	6,866.79	28.71	21.53	44.68	-1,379.20	-119.57	717.66	674.94	42.73	16.797				
8,700.00	7,169.29	7,000.00	6,837.47	29.86	21.44	42.64	-1,372.70	-137.19	799.76	756.71	43.05	18.576				
8,800.00	7,169.43	7,000.00	6,837.47	31.06	21.44	42.64	-1,372.70	-137.19	884.13	840.41	43.72	20.222				
8,900.00	7,169.57	6,970.82	6,812.20	32.30	21.36	41.07	-1,367.10	-150.67	970.38	926.43	43.95	22.079				
9,000.00	7,169.71	6,950.00	6,793.82	33.58	21.30	40.01	-1,363.03	-159.56	1,058.44	1,014.23	44.21	23.940				
9,100.00	7,169.86	6,950.00	6,793.82	34.89	21.30	40.01	-1,363.03	-159.56	1,148.00	1,103.43	44.57	25.757				

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							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	-1.10	-149.89	149.90					
100.00	100.00	101.00	101.00	3.28	3.28	-90.42	-1.10	-149.89	149.90	142.37	7.53	19.909		
200.00	200.00	201.00	201.00	3.31	3.31	-90.42	-1.10	-149.89	149.90	142.32	7.57	19.790		
201.65	201.65	202.65	202.65	3.31	3.31	116.08	-1.10	-149.89	149.90	142.32	7.58	19.788		
300.00	300.00	300.71	300.68	3.35	3.35	115.55	-2.87	-149.97	150.18	142.53	7.66	19.619		
400.00	399.93	400.32	400.16	3.40	3.41	114.73	-8.09	-150.19	152.02	144.25	7.77	19.572		
500.00	499.68	499.80	499.25	3.49	3.49	113.80	-16.76	-150.56	155.59	147.66	7.93	19.620		
600.00	599.13	599.10	597.81	3.59	3.60	112.79	-28.83	-151.08	160.92	152.77	8.15	19.740		
700.00	698.15	698.17	695.66	3.73	3.75	111.74	-44.27	-151.74	167.99	159.55	8.44	19.901		
800.00	796.63	796.98	792.67	3.91	3.94	110.69	-63.02	-152.54	176.82	168.01	8.81	20.071		
900.00	894.44	895.50	888.68	4.14	4.18	109.65	-85.03	-153.48	187.37	178.10	9.27	20.222		
1,000.00	991.46	1,005.75	984.23	4.42	4.49	108.78	-109.95	-154.55	199.56	189.71	9.85	20.258		
1,100.00	1,087.69	1,106.64	1,080.04	4.75	4.82	108.78	-135.33	-155.64	212.82	202.33	10.50	20.277		
1,200.00	1,183.78	1,207.55	1,175.82	5.12	5.17	109.02	-160.70	-156.72	226.25	215.05	11.20	20.202		
1,300.00	1,279.86	1,308.46	1,271.60	5.51	5.55	109.24	-186.07	-157.81	239.69	227.74	11.95	20.057		
1,400.00	1,375.95	1,409.37	1,367.38	5.93	5.94	109.43	-211.44	-158.89	253.12	240.39	12.74	19.872		
1,500.00	1,472.04	1,489.72	1,463.16	6.36	6.26	109.60	-236.81	-159.98	266.56	253.09	13.47	19.785		
1,600.00	1,568.13	1,588.81	1,558.94	6.81	6.67	109.76	-262.19	-161.07	280.00	265.70	14.31	19.573		
1,700.00	1,664.21	1,687.90	1,654.72	7.27	7.09	109.90	-287.56	-162.15	293.44	278.29	15.16	19.358		
1,800.00	1,760.30	1,786.99	1,750.50	7.74	7.51	110.03	-312.93	-163.24	306.89	290.86	16.03	19.145		
1,900.00	1,856.39	1,886.08	1,846.28	8.01	7.77	110.14	-338.30	-164.32	320.33	304.17	16.17	19.816		
2,000.00	1,952.48	1,985.17	1,942.06	8.07	7.86	110.25	-363.68	-165.41	333.78	317.46	16.32	20.455		
2,100.00	2,048.56	2,084.26	2,037.84	8.17	7.94	110.35	-389.05	-166.49	347.23	330.74	16.49	21.062		
2,200.00	2,144.65	2,183.35	2,133.62	8.28	8.05	110.44	-414.42	-167.58	360.68	343.98	16.70	21.601		
2,300.00	2,240.74	2,282.44	2,229.40	8.42	8.17	110.53	-439.79	-168.67	374.13	357.18	16.95	22.073		
2,400.00	2,336.83	2,381.53	2,325.18	8.58	8.31	110.61	-465.17	-169.75	387.58	370.34	17.24	22.481		
2,500.00	2,432.91	2,480.62	2,420.96	8.75	8.47	110.69	-490.54	-170.84	401.03	383.46	17.57	22.827		
2,600.00	2,529.00	2,579.71	2,516.74	8.95	8.65	110.76	-515.91	-171.92	414.48	396.55	17.93	23.115		
2,700.00	2,625.09	2,678.80	2,612.52	9.16	8.84	110.82	-541.28	-173.01	427.93	409.61	18.33	23.350		
2,800.00	2,721.18	2,777.89	2,708.30	9.39	9.05	110.88	-566.66	-174.09	441.39	422.63	18.75	23.537		
2,900.00	2,817.26	2,876.98	2,804.08	9.63	9.27	110.94	-592.03	-175.18	454.84	435.63	19.21	23.680		
3,000.00	2,913.35	2,976.07	2,899.86	9.89	9.50	110.99	-617.40	-176.27	468.29	448.60	19.69	23.784		
3,100.00	3,009.44	3,075.16	2,995.64	10.15	9.75	111.05	-642.77	-177.35	481.75	461.55	20.19	23.855		
3,200.00	3,105.53	3,174.25	3,091.42	10.43	10.00	111.09	-668.15	-178.44	495.20	474.48	20.72	23.896		
3,300.00	3,201.61	3,273.34	3,187.20	10.73	10.27	111.14	-693.52	-179.52	508.66	487.38	21.27	23.911		
3,400.00	3,297.70	3,372.43	3,282.98	11.03	10.55	111.18	-718.89	-180.61	522.11	500.27	21.84	23.905		
3,500.00	3,393.79	3,471.52	3,378.76	11.34	10.83	111.23	-744.26	-181.70	535.57	513.14	22.43	23.879		
3,600.00	3,489.88	3,570.61	3,474.54	11.66	11.13	111.27	-769.64	-182.78	549.02	525.99	23.03	23.838		
3,700.00	3,585.96	3,669.70	3,570.32	11.98	11.43	111.30	-795.01	-183.87	562.48	538.83	23.65	23.784		
3,800.00	3,682.05	3,768.79	3,666.10	12.32	11.74	111.34	-820.38	-184.95	575.93	551.65	24.28	23.719		
3,900.00	3,778.14	3,867.88	3,761.88	12.66	12.05	111.37	-845.75	-186.04	589.39	564.46	24.93	23.645		
4,000.00	3,874.23	3,966.97	3,857.66	13.00	12.37	111.41	-871.13	-187.12	602.85	577.26	25.58	23.564		
4,100.00	3,970.32	4,066.06	3,953.45	13.35	12.70	111.44	-896.50	-188.21	616.30	590.05	26.25	23.478		
4,200.00	4,066.40	4,165.15	4,049.23	13.71	13.03	111.47	-921.87	-189.30	629.76	602.83	26.93	23.386		
4,300.00	4,162.49	4,264.24	4,145.01	14.07	13.36	111.50	-947.24	-190.38	643.22	615.60	27.62	23.292		
4,400.00	4,258.58	4,363.33	4,240.79	14.44	13.70	111.52	-972.62	-191.47	656.67	628.36	28.31	23.194		
4,500.00	4,354.67	4,462.42	4,336.57	14.81	14.04	111.55	-997.99	-192.55	670.13	641.12	29.02	23.095		
4,600.00	4,450.75	4,561.51	4,432.35	15.18	14.39	111.57	-1,023.36	-193.64	683.59	653.86	29.73	22.995		
4,700.00	4,546.84	4,660.60	4,528.13	15.56	14.74	111.60	-1,048.73	-194.72	697.05	666.60	30.45	22.895		
4,800.00	4,642.93	4,759.69	4,623.91	15.94	15.10	111.62	-1,074.11	-195.81	710.50	679.33	31.17	22.794		
4,900.00	4,739.02	4,858.78	4,719.69	16.32	15.45	111.64	-1,099.48	-196.90	723.96	692.06	31.90	22.694		
5,000.00	4,835.10	4,957.87	4,815.47	16.71	15.81	111.67	-1,124.85	-197.98	737.42	704.78	32.64	22.594		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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
5,100.00	4,931.19	5,056.96	4,911.25	17.10	16.18	111.69	-1,150.22	-199.07	750.88	717.50	33.38	22.496	
5,200.00	5,027.28	5,156.05	5,007.03	17.49	16.54	111.71	-1,175.60	-200.15	764.34	730.21	34.13	22.398	
5,300.00	5,123.37	5,255.14	5,102.81	17.88	16.91	111.73	-1,200.97	-201.24	777.79	742.92	34.88	22.301	
5,400.00	5,219.45	5,354.23	5,198.59	18.28	17.28	111.75	-1,226.34	-202.32	791.25	755.62	35.63	22.206	
5,500.00	5,315.54	5,453.32	5,294.37	18.67	17.65	111.76	-1,251.71	-203.41	804.71	768.32	36.39	22.113	
5,600.00	5,411.63	5,552.41	5,390.15	19.07	18.02	111.78	-1,277.09	-204.50	818.17	781.02	37.15	22.021	
5,700.00	5,507.72	5,651.50	5,485.93	19.47	18.40	111.80	-1,302.46	-205.58	831.63	793.71	37.92	21.931	
5,800.00	5,603.80	5,750.59	5,581.71	19.88	18.77	111.82	-1,327.83	-206.67	845.09	806.40	38.69	21.842	
5,900.00	5,699.89	5,849.67	5,677.49	20.28	19.15	111.83	-1,353.20	-207.75	858.55	819.08	39.46	21.756	
6,000.00	5,795.98	5,948.76	5,773.27	20.69	19.53	111.85	-1,378.58	-208.84	872.00	831.77	40.24	21.671	
6,100.00	5,892.07	6,047.85	5,869.05	21.09	19.91	111.86	-1,403.95	-209.92	885.46	844.45	41.02	21.587	
6,200.00	5,988.15	6,146.94	5,964.83	21.50	20.29	111.88	-1,429.32	-211.01	898.92	857.12	41.80	21.506	
6,300.00	6,084.24	6,246.03	6,060.61	21.91	20.68	111.89	-1,454.69	-212.10	912.38	869.80	42.58	21.426	
6,400.00	6,180.33	6,345.12	6,156.39	22.32	21.06	111.90	-1,480.07	-213.18	925.84	882.47	43.37	21.348	
6,500.00	6,276.42	6,444.21	6,252.17	22.74	21.45	111.92	-1,505.44	-214.27	939.30	895.14	44.16	21.272	
6,600.00	6,372.51	6,542.30	6,348.26	23.15	21.84	84.91	-1,765.16	733.75	903.81	874.29	29.52	30.619	
6,700.00	6,468.59	8,146.27	7,229.50	23.56	27.60	81.89	-1,765.18	746.29	804.90	775.06	29.85	26.967	
6,800.00	6,565.18	8,151.99	7,229.51	23.88	27.65	-17.26	-1,765.18	752.01	705.57	675.42	30.15	23.401	
6,900.00	6,661.43	8,142.08	7,229.49	24.11	27.57	-92.45	-1,765.17	742.10	606.69	576.32	30.37	19.977	
7,000.00	6,754.97	8,116.74	7,229.45	24.30	27.39	-120.00	-1,765.14	716.75	510.78	480.27	30.50	16.746	
7,100.00	6,843.50	8,076.59	7,229.39	24.44	27.11	-132.48	-1,765.09	676.61	420.28	389.71	30.57	13.747	
7,200.00	6,924.84	8,022.63	7,229.31	24.53	26.76	-138.31	-1,765.02	622.64	337.58	306.96	30.62	11.024	
7,300.00	6,996.99	7,956.18	7,229.21	24.58	26.38	-140.31	-1,764.94	556.20	264.93	234.19	30.74	8.619	
7,400.00	7,058.17	7,878.88	7,229.09	24.59	26.01	-139.48	-1,764.84	478.90	204.41	173.35	31.06	6.581	
7,500.00	7,106.87	7,785.57	7,228.19	24.57	25.65	-135.50	-1,764.52	385.60	157.21	125.04	32.17	4.887	
7,600.00	7,141.90	7,678.16	7,214.18	24.51	25.32	-125.16	-1,760.71	279.30	115.30	79.78	35.53	3.246	
7,700.00	7,162.39	7,580.22	7,186.52	24.43	25.06	-105.22	-1,753.31	185.74	80.92	40.69	40.24	2.011	
7,791.06	7,168.92	7,497.93	7,152.78	24.34	24.86	-75.28	-1,744.30	111.29	67.50	23.97	43.53	1.551 CC, ES	
7,800.00	7,168.02	7,489.65	7,148.88	24.34	24.84	-72.66	-1,743.26	104.06	67.59	23.98	43.61	1.550 SF	
7,900.00	7,168.16	7,409.81	7,106.69	24.28	24.64	-40.53	-1,732.03	37.28	89.28	46.28	43.00	2.076	
8,000.00	7,168.30	7,342.54	7,065.11	24.29	24.47	-22.17	-1,720.97	-14.39	139.94	96.73	43.20	3.239	
8,100.00	7,168.44	7,286.28	7,026.44	24.47	24.32	-12.70	-1,710.69	-53.92	205.26	161.07	44.19	4.645	
8,200.00	7,168.58	7,239.21	6,991.60	24.93	24.20	-7.37	-1,701.44	-84.16	278.85	233.67	45.18	6.172	
8,300.00	7,168.72	7,200.00	6,961.00	25.68	24.09	-4.09	-1,693.31	-107.27	357.86	311.85	46.01	7.778	
8,400.00	7,168.87	7,166.21	6,933.56	26.59	23.99	-1.86	-1,686.02	-125.59	440.75	394.10	46.65	9.448	
8,500.00	7,169.01	7,137.69	6,909.69	27.61	23.91	-0.29	-1,679.69	-139.87	526.54	479.37	47.17	11.163	
8,600.00	7,169.15	7,113.18	6,888.71	28.71	23.83	0.86	-1,674.12	-151.24	614.56	566.98	47.58	12.917	
8,700.00	7,169.29	7,100.00	6,877.26	29.86	23.80	1.42	-1,671.08	-157.00	704.42	656.40	48.02	14.670	
8,800.00	7,169.43	7,073.42	6,853.82	31.06	23.72	2.44	-1,664.86	-167.88	795.50	747.33	48.17	16.516	
8,900.00	7,169.57	7,050.00	6,832.82	32.30	23.64	3.23	-1,659.29	-176.62	887.88	839.57	48.31	18.380	
9,000.00	7,169.71	7,050.00	6,832.82	33.58	23.64	3.23	-1,659.29	-176.62	981.12	932.50	48.62	20.180	
9,100.00	7,169.86	7,029.89	6,814.55	34.89	23.58	3.84	-1,654.45	-183.48	1,075.08	1,026.37	48.71	22.073	
9,200.00	7,170.00	7,018.41	6,804.03	36.23	23.55	4.17	-1,651.65	-187.13	1,169.75	1,120.92	48.83	23.955	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-51.68	119.12	-150.73	192.12					
100.00	100.00	101.00	101.00	3.28	3.28	-51.68	119.12	-150.73	192.12	184.59	7.53	25.517		
200.00	200.00	201.04	201.04	3.31	3.31	-51.68	119.12	-150.73	192.12	184.54	7.57	25.365		
300.00	300.00	304.60	304.58	3.35	3.35	154.39	117.23	-150.96	191.56	183.90	7.66	25.020		
322.15	322.14	327.52	327.48	3.36	3.36	154.22	116.30	-151.08	191.53	183.85	7.68	24.943	CC, ES	
400.00	399.93	407.65	407.47	3.40	3.41	153.42	111.68	-151.65	191.95	184.18	7.77	24.708		
500.00	499.68	507.56	507.15	3.49	3.49	152.56	104.90	-152.50	194.81	186.88	7.93	24.565	SF	
600.00	599.13	607.37	606.72	3.59	3.60	152.18	98.13	-153.34	200.79	192.65	8.14	24.669		
700.00	698.15	706.95	706.07	3.73	3.72	152.23	91.38	-154.18	209.85	201.45	8.39	24.997		
800.00	796.63	806.19	805.07	3.91	3.87	152.67	84.64	-155.02	221.99	213.29	8.70	25.529		
900.00	894.44	904.95	903.61	4.14	4.03	153.40	77.94	-155.86	237.23	228.20	9.04	26.247		
1,000.00	991.46	1,003.13	1,001.55	4.42	4.20	154.35	71.28	-156.69	255.63	246.21	9.42	27.130		
1,100.00	1,087.69	1,100.68	1,098.87	4.75	4.39	155.49	64.67	-157.51	276.89	267.05	9.84	28.130		
1,200.00	1,183.78	1,198.12	1,196.09	5.12	4.59	156.59	58.06	-158.33	298.71	288.43	10.28	29.055		
1,300.00	1,279.86	1,304.44	1,293.30	5.51	4.81	157.54	51.44	-159.16	320.63	309.87	10.76	29.794		
1,400.00	1,375.95	1,393.00	1,390.51	5.93	5.01	158.37	44.83	-159.98	342.62	331.39	11.23	30.521		
1,500.00	1,472.04	1,509.56	1,487.72	6.36	5.27	159.10	38.22	-160.80	364.66	352.90	11.77	30.984		
1,600.00	1,568.13	1,587.88	1,584.93	6.81	5.46	159.75	31.61	-161.63	386.76	374.52	12.24	31.593		
1,700.00	1,664.21	1,685.32	1,682.15	7.27	5.69	160.33	25.00	-162.45	408.90	396.13	12.77	32.018		
1,800.00	1,760.30	1,782.76	1,779.36	7.74	5.93	160.85	18.39	-163.28	431.08	417.77	13.31	32.384		
1,900.00	1,856.39	1,880.20	1,876.57	8.01	6.08	161.31	11.78	-164.10	453.28	440.03	13.25	34.209		
2,000.00	1,952.48	1,977.64	1,973.78	8.07	6.12	161.74	5.17	-164.92	475.52	462.21	13.31	35.733		
2,100.00	2,048.56	2,075.08	2,070.99	8.17	6.15	162.12	-1.44	-165.75	497.77	484.40	13.37	37.219		
2,200.00	2,144.65	2,172.52	2,168.21	8.28	6.19	162.48	-8.05	-166.57	520.04	506.57	13.47	38.598		
2,300.00	2,240.74	2,269.96	2,265.42	8.42	6.24	162.80	-14.66	-167.39	542.34	528.73	13.60	39.864		
2,400.00	2,336.83	2,367.40	2,362.63	8.58	6.31	163.10	-21.27	-168.22	564.64	550.87	13.77	41.016		
2,500.00	2,432.91	2,464.84	2,459.84	8.75	6.39	163.37	-27.88	-169.04	586.96	573.00	13.96	42.052		
2,600.00	2,529.00	2,562.28	2,557.05	8.95	6.48	163.63	-34.49	-169.86	609.29	595.11	14.18	42.975		
2,700.00	2,625.09	2,659.72	2,654.27	9.16	6.58	163.87	-41.10	-170.69	631.64	617.21	14.42	43.789		
2,800.00	2,721.18	2,757.16	2,751.48	9.39	6.69	164.09	-47.71	-171.51	653.99	639.29	14.70	44.500		
2,900.00	2,817.26	2,854.60	2,848.69	9.63	6.81	164.29	-54.32	-172.33	676.35	661.36	14.99	45.113		
3,000.00	2,913.35	2,952.04	2,945.90	9.89	6.94	164.49	-60.93	-173.16	698.72	683.41	15.31	45.637		
3,100.00	3,009.44	3,049.48	3,043.11	10.15	7.08	164.67	-67.54	-173.98	721.09	705.44	15.65	46.078		
3,200.00	3,105.53	3,146.92	3,140.33	10.43	7.23	164.84	-74.15	-174.80	743.47	727.47	16.01	46.444		
3,300.00	3,201.61	3,244.36	3,237.54	10.73	7.39	165.00	-80.76	-175.63	765.86	749.48	16.38	46.743		
3,400.00	3,297.70	3,341.79	3,334.75	11.03	7.55	165.15	-87.37	-176.45	788.25	771.48	16.78	46.981		
3,500.00	3,393.79	3,439.23	3,431.96	11.34	7.72	165.29	-93.98	-177.27	810.65	793.47	17.19	47.165		
3,600.00	3,489.88	3,536.67	3,529.17	11.66	7.90	165.43	-100.59	-178.10	833.06	815.44	17.61	47.303		
3,700.00	3,585.96	3,634.11	3,626.39	11.98	8.08	165.56	-107.20	-178.92	855.46	837.41	18.05	47.398		
3,800.00	3,682.05	3,731.55	3,723.60	12.32	8.27	165.68	-113.81	-179.74	877.87	859.37	18.50	47.458		
3,900.00	3,778.14	3,828.99	3,820.81	12.66	8.47	165.79	-120.42	-180.57	900.29	881.33	18.96	47.485		
4,000.00	3,874.23	3,926.43	3,918.02	13.00	8.67	165.90	-127.03	-181.39	922.70	903.27	19.43	47.486		
4,100.00	3,970.32	4,023.87	4,015.23	13.35	8.87	166.01	-133.64	-182.21	945.13	925.21	19.91	47.463		
4,200.00	4,066.40	4,121.31	4,112.45	13.71	9.08	166.11	-140.25	-183.04	967.55	947.15	20.40	47.420		
4,300.00	4,162.49	4,218.75	4,209.66	14.07	9.29	166.20	-146.86	-183.86	989.98	969.07	20.90	47.359		
4,400.00	4,258.58	4,316.19	4,306.87	14.44	9.51	166.29	-153.47	-184.68	1,012.40	990.99	21.41	47.284		
4,500.00	4,354.67	4,413.63	4,404.08	14.81	9.73	166.38	-160.08	-185.51	1,034.84	1,012.91	21.93	47.197		
4,600.00	4,450.75	4,511.07	4,501.29	15.18	9.95	166.47	-166.69	-186.33	1,057.27	1,034.82	22.45	47.099		
4,700.00	4,546.84	4,608.51	4,598.51	15.56	10.18	166.55	-173.30	-187.15	1,079.70	1,056.73	22.98	46.993		
4,800.00	4,642.93	4,705.95	4,695.72	15.94	10.40	166.62	-179.91	-187.98	1,102.14	1,078.63	23.51	46.880		
4,900.00	4,739.02	4,803.39	4,792.93	16.32	10.64	166.70	-186.52	-188.80	1,124.58	1,100.53	24.05	46.761		
5,000.00	4,835.10	4,900.83	4,890.14	16.71	10.87	166.77	-193.13	-189.62	1,147.02	1,122.43	24.59	46.638		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27B-XR - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,931.19	5,001.73	4,987.35	17.10	11.11	166.83	-199.74	-190.45	1,169.46	1,144.31	25.15	46.496	
5,200.00	5,027.28	5,104.29	5,084.57	17.49	11.37	166.90	-206.36	-191.27	1,191.91	1,166.19	25.72	46.344	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 41N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	1.00	1.00	3.28	3.28	-56.63	99.08	-150.45	180.14				
100.00	100.00	101.00	101.00	3.28	3.28	-56.63	99.08	-150.45	180.14	172.62	7.53	23.927	
200.00	200.00	201.03	201.03	3.31	3.31	-56.63	99.08	-150.45	180.14	172.57	7.57	23.784	
300.00	300.00	304.00	303.98	3.35	3.35	149.41	97.20	-150.64	179.68	172.02	7.66	23.468	
311.08	311.07	315.40	315.37	3.35	3.35	149.32	96.77	-150.68	179.67	172.00	7.67	23.434 CC, ES	
400.00	399.93	406.85	406.67	3.40	3.41	148.41	91.65	-151.20	180.23	172.46	7.77	23.201	
500.00	499.68	508.00	507.46	3.49	3.50	147.13	83.15	-152.05	182.49	174.56	7.93	23.009 SF	
600.00	599.13	607.84	606.91	3.59	3.60	146.37	74.41	-152.93	187.58	179.43	8.14	23.031	
700.00	698.15	707.52	706.20	3.73	3.74	146.19	65.68	-153.81	195.59	187.18	8.41	23.263	
800.00	796.63	806.90	805.20	3.91	3.89	146.53	56.98	-154.69	206.49	197.77	8.72	23.685	
900.00	894.44	905.88	903.79	4.14	4.06	147.29	48.31	-155.56	220.31	211.23	9.07	24.277	
1,000.00	991.46	1,004.33	1,001.86	4.42	4.24	148.36	39.69	-156.43	237.11	227.64	9.47	25.027	
1,100.00	1,087.69	1,102.21	1,099.36	4.75	4.44	149.69	31.11	-157.29	256.66	246.75	9.91	25.891	
1,200.00	1,183.78	1,200.02	1,196.76	5.12	4.65	150.99	22.55	-158.16	276.79	266.41	10.37	26.686	
1,300.00	1,279.86	1,302.24	1,294.15	5.51	4.88	152.11	13.99	-159.02	297.03	286.16	10.87	27.338	
1,400.00	1,375.95	1,404.46	1,391.55	5.93	5.12	153.08	5.42	-159.88	317.36	305.98	11.38	27.888	
1,500.00	1,472.04	1,506.69	1,488.95	6.36	5.36	153.94	-3.14	-160.74	337.77	325.86	11.91	28.354	
1,600.00	1,568.13	1,608.91	1,586.34	6.81	5.62	154.70	-11.70	-161.61	358.25	345.79	12.46	28.749	
1,700.00	1,664.21	1,688.87	1,683.74	7.27	5.82	155.38	-20.27	-162.47	378.78	365.81	12.97	29.210	
1,800.00	1,760.30	1,786.64	1,781.14	7.74	6.07	155.99	-28.83	-163.33	399.35	385.83	13.53	29.520	
1,900.00	1,856.39	1,884.42	1,878.54	8.01	6.22	156.54	-37.39	-164.19	419.97	406.50	13.47	31.174	
2,000.00	1,952.48	1,982.20	1,975.93	8.07	6.26	157.03	-45.96	-165.06	440.62	427.09	13.53	32.574	
2,100.00	2,048.56	2,079.97	2,073.33	8.17	6.30	157.49	-54.52	-165.92	461.30	447.70	13.60	33.929	
2,200.00	2,144.65	2,177.75	2,170.73	8.28	6.34	157.90	-63.08	-166.78	482.00	468.30	13.70	35.185	
2,300.00	2,240.74	2,275.53	2,268.12	8.42	6.40	158.28	-71.65	-167.64	502.72	488.89	13.83	36.338	
2,400.00	2,336.83	2,373.30	2,365.52	8.58	6.47	158.63	-80.21	-168.50	523.47	509.47	14.00	37.385	
2,500.00	2,432.91	2,471.08	2,462.92	8.75	6.56	158.95	-88.78	-169.37	544.23	530.03	14.20	38.327	
2,600.00	2,529.00	2,568.86	2,560.31	8.95	6.65	159.25	-97.34	-170.23	565.01	550.58	14.43	39.167	
2,700.00	2,625.09	2,666.63	2,657.71	9.16	6.76	159.53	-105.90	-171.09	585.80	571.12	14.68	39.906	
2,800.00	2,721.18	2,764.41	2,755.11	9.39	6.88	159.79	-114.47	-171.95	606.60	591.64	14.96	40.552	
2,900.00	2,817.26	2,862.19	2,852.51	9.63	7.01	160.03	-123.03	-172.82	627.42	612.15	15.26	41.109	
3,000.00	2,913.35	2,959.96	2,949.90	9.89	7.15	160.26	-131.59	-173.68	648.24	632.65	15.59	41.584	
3,100.00	3,009.44	3,057.74	3,047.30	10.15	7.29	160.47	-140.16	-174.54	669.07	653.14	15.94	41.984	
3,200.00	3,105.53	3,155.52	3,144.70	10.43	7.45	160.67	-148.72	-175.40	689.91	673.61	16.30	42.317	
3,300.00	3,201.61	3,253.29	3,242.09	10.73	7.62	160.86	-157.28	-176.27	710.76	694.07	16.69	42.588	
3,400.00	3,297.70	3,351.07	3,339.49	11.03	7.79	161.04	-165.85	-177.13	731.62	714.53	17.09	42.805	
3,500.00	3,393.79	3,448.85	3,436.89	11.34	7.97	161.20	-174.41	-177.99	752.48	734.97	17.51	42.973	
3,600.00	3,489.88	3,546.62	3,534.28	11.66	8.15	161.36	-182.97	-178.85	773.35	755.41	17.94	43.099	
3,700.00	3,585.96	3,644.40	3,631.68	11.98	8.34	161.51	-191.54	-179.72	794.22	775.83	18.39	43.187	
3,800.00	3,682.05	3,742.18	3,729.08	12.32	8.54	161.65	-200.10	-180.58	815.10	796.25	18.85	43.242	
3,900.00	3,778.14	3,839.95	3,826.48	12.66	8.74	161.79	-208.66	-181.44	835.99	816.67	19.32	43.269	
4,000.00	3,874.23	3,937.73	3,923.87	13.00	8.95	161.92	-217.23	-182.30	856.87	837.07	19.80	43.271	
4,100.00	3,970.32	4,035.51	4,021.27	13.35	9.17	162.04	-225.79	-183.16	877.77	857.47	20.29	43.252	
4,200.00	4,066.40	4,133.28	4,118.67	13.71	9.38	162.16	-234.35	-184.03	898.66	877.86	20.80	43.214	
4,300.00	4,162.49	4,231.06	4,216.06	14.07	9.60	162.27	-242.92	-184.89	919.56	898.25	21.31	43.161	
4,400.00	4,258.58	4,328.83	4,313.46	14.44	9.83	162.38	-251.48	-185.75	940.46	918.64	21.82	43.095	
4,500.00	4,354.67	4,426.61	4,410.86	14.81	10.06	162.48	-260.04	-186.61	961.37	939.02	22.35	43.018	
4,600.00	4,450.75	4,524.39	4,508.26	15.18	10.29	162.58	-268.61	-187.48	982.27	959.39	22.88	42.932	
4,700.00	4,546.84	4,622.16	4,605.65	15.56	10.52	162.67	-277.17	-188.34	1,003.18	979.76	23.42	42.838	
4,800.00	4,642.93	4,719.94	4,703.05	15.94	10.76	162.76	-285.74	-189.20	1,024.10	1,000.13	23.96	42.738	
4,900.00	4,739.02	4,817.72	4,800.45	16.32	11.00	162.85	-294.30	-190.06	1,045.01	1,020.50	24.51	42.633	
5,000.00	4,835.10	4,915.49	4,897.84	16.71	11.24	162.93	-302.86	-190.93	1,065.93	1,040.86	25.07	42.523	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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
5,100.00	4,931.19	5,013.27	4,995.24	17.10	11.49	163.01	-311.43	-191.79	1,086.85	1,061.22	25.63	42.410	
5,200.00	5,027.28	5,111.05	5,092.64	17.49	11.74	163.08	-319.99	-192.65	1,107.77	1,081.58	26.19	42.295	
5,300.00	5,123.37	5,208.82	5,190.03	17.88	11.99	163.16	-328.55	-193.51	1,128.69	1,101.93	26.76	42.178	
5,400.00	5,219.45	5,306.60	5,287.43	18.28	12.24	163.23	-337.12	-194.38	1,149.61	1,122.28	27.33	42.060	
5,500.00	5,315.54	5,404.38	5,384.83	18.67	12.49	163.30	-345.68	-195.24	1,170.54	1,142.63	27.91	41.941	
5,600.00	5,411.63	5,502.15	5,482.23	19.07	12.75	163.36	-354.24	-196.10	1,191.47	1,162.98	28.49	41.822	
6,900.00	6,661.43	7,952.37	7,234.58	24.11	22.10	148.62	-522.99	757.93	1,175.30	1,133.78	41.52	28.307	
7,000.00	6,754.97	7,927.39	7,234.53	24.30	21.82	131.95	-522.61	732.95	1,154.89	1,112.94	41.95	27.528	
7,100.00	6,843.50	7,887.58	7,234.46	24.44	21.39	121.76	-522.00	693.15	1,143.00	1,100.97	42.03	27.194	
7,200.00	6,924.84	7,833.93	7,234.37	24.53	20.84	114.38	-521.18	639.51	1,138.69	1,096.91	41.78	27.252	
7,217.62	6,938.27	7,823.14	7,234.35	24.54	20.73	113.24	-521.01	628.72	1,138.60	1,096.89	41.71	27.299	
7,300.00	6,996.99	7,767.77	7,234.25	24.58	20.19	108.33	-520.17	573.35	1,140.31	1,099.04	41.27	27.629	
7,400.00	7,058.17	7,709.29	7,234.12	24.59	19.64	103.17	-518.99	496.30	1,145.80	1,105.02	40.77	28.102	
7,500.00	7,106.87	7,603.91	7,233.68	24.57	18.77	98.89	-517.64	409.52	1,152.96	1,113.06	39.90	28.895	
7,600.00	7,141.90	7,514.65	7,224.65	24.51	18.15	95.35	-515.50	320.82	1,160.01	1,120.70	39.32	29.506	
7,700.00	7,162.39	7,430.32	7,204.84	24.43	17.69	92.50	-512.52	238.96	1,166.32	1,127.39	38.93	29.958	
7,800.00	7,168.02	7,349.97	7,176.11	24.34	17.39	90.35	-508.85	164.08	1,171.56	1,132.82	38.74	30.245	
7,900.00	7,168.16	7,276.59	7,141.83	24.28	17.20	88.67	-504.86	99.36	1,178.06	1,139.33	38.72	30.421	
8,000.00	7,168.30	7,212.24	7,105.84	24.29	17.06	86.93	-500.88	46.20	1,187.99	1,149.14	38.85	30.580	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.30	159.92	-0.84	159.92				
100.00	100.00	100.00	100.00	3.28	3.28	-0.30	159.92	-0.84	159.92	152.39	7.53	21.241	
200.00	200.00	200.00	200.00	3.31	3.31	-0.30	159.92	-0.84	159.92	152.35	7.57	21.115	
280.54	280.54	281.98	281.97	3.34	3.34	-153.49	159.56	0.28	160.07	152.43	7.64	20.955	
300.00	300.00	301.77	301.75	3.35	3.35	-153.26	159.36	0.88	159.76	152.10	7.66	20.862 CC, ES	
400.00	399.93	403.39	403.22	3.40	3.41	-151.98	157.67	6.02	161.27	153.50	7.78	20.741 SF	
500.00	499.68	504.77	504.19	3.49	3.50	-150.11	154.86	14.55	164.97	157.02	7.94	20.768	
600.00	599.13	605.25	603.94	3.59	3.62	-147.85	151.07	26.09	171.05	162.88	8.17	20.945	
700.00	698.15	704.71	702.59	3.73	3.77	-146.15	147.11	38.13	180.13	171.68	8.44	21.330	
800.00	796.63	803.94	801.01	3.91	3.94	-145.17	143.16	50.14	192.17	183.40	8.77	21.902	
900.00	894.44	902.82	899.08	4.14	4.13	-144.82	139.23	62.11	207.08	197.93	9.15	22.624	
1,000.00	991.46	1,001.22	996.68	4.42	4.34	-144.98	135.31	74.02	224.80	215.23	9.58	23.469	
1,100.00	1,087.69	1,100.90	1,093.76	4.75	4.56	-145.59	131.41	85.87	245.06	235.01	10.05	24.382	
1,200.00	1,183.78	1,203.11	1,190.75	5.12	4.81	-146.28	127.52	97.70	265.77	255.22	10.55	25.182	
1,300.00	1,279.86	1,305.33	1,287.74	5.51	5.07	-146.87	123.63	109.54	286.51	275.42	11.09	25.845	
1,400.00	1,375.95	1,407.54	1,384.73	5.93	5.33	-147.37	119.74	121.38	307.27	295.63	11.64	26.394	
1,500.00	1,472.04	1,509.75	1,481.72	6.36	5.61	-147.82	115.85	133.21	328.06	315.84	12.22	26.849	
1,600.00	1,568.13	1,588.03	1,578.71	6.81	5.83	-148.21	111.96	145.05	348.86	336.11	12.75	27.368	
1,700.00	1,664.21	1,685.82	1,675.70	7.27	6.10	-148.56	108.07	156.88	369.67	356.33	13.34	27.707	
1,800.00	1,760.30	1,783.61	1,772.69	7.74	6.39	-148.87	104.17	168.72	390.50	376.55	13.95	27.993	
1,900.00	1,856.39	1,881.39	1,869.68	8.01	6.56	-149.14	100.28	180.56	411.33	397.40	13.93	29.525	
2,000.00	1,952.48	1,979.18	1,966.67	8.07	6.61	-149.40	96.39	192.39	432.18	418.16	14.01	30.845	
2,100.00	2,048.56	2,076.97	2,063.66	8.17	6.65	-149.62	92.50	204.23	453.03	438.93	14.10	32.131	
2,200.00	2,144.65	2,174.75	2,160.65	8.28	6.71	-149.83	88.61	216.06	473.88	459.66	14.22	33.324	
2,300.00	2,240.74	2,272.54	2,257.64	8.42	6.77	-150.02	84.72	227.90	494.75	480.37	14.37	34.418	
2,400.00	2,336.83	2,370.33	2,354.63	8.58	6.86	-150.20	80.83	239.73	515.61	501.05	14.56	35.413	
2,500.00	2,432.91	2,468.11	2,451.62	8.75	6.95	-150.36	76.93	251.57	536.49	521.71	14.78	36.310	
2,600.00	2,529.00	2,565.90	2,548.61	8.95	7.05	-150.51	73.04	263.41	557.36	542.34	15.02	37.110	
2,700.00	2,625.09	2,663.69	2,645.60	9.16	7.17	-150.65	69.15	275.24	578.24	562.95	15.29	37.818	
2,800.00	2,721.18	2,761.47	2,742.59	9.39	7.30	-150.78	65.26	287.08	599.12	583.54	15.59	38.438	
2,900.00	2,817.26	2,859.26	2,839.58	9.63	7.44	-150.90	61.37	298.91	620.01	604.10	15.91	38.976	
3,000.00	2,913.35	2,957.05	2,936.57	9.89	7.59	-151.01	57.48	310.75	640.90	624.64	16.25	39.438	
3,100.00	3,009.44	3,054.83	3,033.56	10.15	7.75	-151.12	53.59	322.58	661.78	645.17	16.61	39.831	
3,200.00	3,105.53	3,152.62	3,130.55	10.43	7.91	-151.22	49.69	334.42	682.68	665.68	17.00	40.160	
3,300.00	3,201.61	3,250.41	3,227.54	10.73	8.09	-151.31	45.80	346.26	703.57	686.17	17.40	40.432	
3,400.00	3,297.70	3,348.20	3,324.53	11.03	8.27	-151.40	41.91	358.09	724.46	706.64	17.82	40.654	
3,500.00	3,393.79	3,445.98	3,421.52	11.34	8.46	-151.48	38.02	369.93	745.36	727.11	18.26	40.830	
3,600.00	3,489.88	3,543.77	3,518.51	11.66	8.66	-151.56	34.13	381.76	766.26	747.55	18.71	40.965	
3,700.00	3,585.96	3,641.56	3,615.50	11.98	8.86	-151.63	30.24	393.60	787.16	767.99	19.17	41.066	
3,800.00	3,682.05	3,739.34	3,712.48	12.32	9.07	-151.70	26.35	405.44	808.06	788.42	19.64	41.135	
3,900.00	3,778.14	3,837.13	3,809.47	12.66	9.29	-151.77	22.45	417.27	828.96	808.83	20.13	41.177	
4,000.00	3,874.23	3,934.92	3,906.46	13.00	9.51	-151.83	18.56	429.11	849.86	829.23	20.63	41.196	
4,100.00	3,970.32	4,032.70	4,003.45	13.35	9.73	-151.89	14.67	440.94	870.77	849.63	21.14	41.194	
4,200.00	4,066.40	4,130.49	4,100.44	13.71	9.96	-151.95	10.78	452.78	891.67	870.02	21.66	41.175	
4,300.00	4,162.49	4,228.28	4,197.43	14.07	10.20	-152.01	6.89	464.61	912.58	890.39	22.18	41.141	
4,400.00	4,258.58	4,326.06	4,294.42	14.44	10.44	-152.06	3.00	476.45	933.48	910.77	22.72	41.093	
4,500.00	4,354.67	4,423.85	4,391.41	14.81	10.68	-152.11	-0.89	488.29	954.39	931.13	23.26	41.035	
4,600.00	4,450.75	4,521.64	4,488.40	15.18	10.92	-152.16	-4.78	500.12	975.30	951.49	23.81	40.968	
4,700.00	4,546.84	4,619.42	4,585.39	15.56	11.17	-152.20	-8.68	511.96	996.20	971.84	24.36	40.892	
4,800.00	4,642.93	4,717.21	4,682.38	15.94	11.42	-152.25	-12.57	523.79	1,017.11	992.19	24.92	40.811	
4,900.00	4,739.02	4,815.00	4,779.37	16.32	11.67	-152.29	-16.46	535.63	1,038.02	1,012.53	25.49	40.724	
5,000.00	4,835.10	4,912.78	4,876.36	16.71	11.93	-152.33	-20.35	547.46	1,058.93	1,032.87	26.06	40.632	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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
5N-66W-29 SANFORD 21-29 PAD - SANFORD 4C-30-M - Wellbore #1 - Design #1												Offset Well Error:	3.28 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,931.19	5,010.57	4,973.35	17.10	12.19	-152.37	-24.24	559.30	1,079.84	1,053.20	26.64	40.537	
5,200.00	5,027.28	5,108.36	5,070.34	17.49	12.45	-152.41	-28.13	571.14	1,100.75	1,073.53	27.22	40.439	
5,300.00	5,123.37	5,206.14	5,167.33	17.88	12.71	-152.44	-32.02	582.97	1,121.66	1,093.86	27.81	40.339	
5,400.00	5,219.45	5,303.93	5,264.32	18.28	12.98	-152.48	-35.92	594.81	1,142.58	1,114.18	28.40	40.238	
5,500.00	5,315.54	5,401.72	5,361.31	18.67	13.24	-152.51	-39.81	606.64	1,163.49	1,134.50	28.99	40.135	
5,600.00	5,411.63	5,500.50	5,458.30	19.07	13.52	-152.54	-43.70	618.48	1,184.40	1,154.81	29.59	40.028	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.00	0.00	0.00	0.00	3.28	3.28	-0.34	139.89	-0.84	139.89				
100.00	100.00	100.00	100.00	3.28	3.28	-0.34	139.89	-0.84	139.89	132.36	7.53	18.581	
200.00	200.00	200.00	200.00	3.31	3.31	-0.34	139.89	-0.84	139.89	132.32	7.57	18.470	
284.92	284.92	286.37	286.36	3.34	3.34	-153.46	139.44	0.39	140.01	132.37	7.64	18.320	
300.00	300.00	301.69	301.67	3.35	3.35	-153.23	139.27	0.86	139.67	132.02	7.66	18.240 CC, ES	
400.00	399.93	403.25	403.08	3.40	3.41	-151.80	137.42	5.94	141.04	133.26	7.77	18.140 SF	
500.00	499.68	504.56	503.99	3.49	3.50	-149.71	134.36	14.36	144.49	136.55	7.94	18.194	
600.00	599.13	605.34	604.00	3.59	3.62	-147.12	130.11	26.03	150.21	142.04	8.17	18.396	
700.00	698.15	704.82	702.55	3.73	3.77	-144.99	125.49	38.71	158.79	150.34	8.45	18.799	
800.00	796.63	804.09	800.91	3.91	3.95	-143.73	120.89	51.37	170.34	161.56	8.78	19.399	
900.00	894.44	903.04	898.94	4.14	4.14	-143.24	116.29	63.99	184.72	175.55	9.17	20.152	
1,000.00	991.46	1,001.55	996.54	4.42	4.36	-143.37	111.72	76.56	201.86	192.26	9.60	21.027	
1,100.00	1,087.69	1,100.43	1,093.65	4.75	4.59	-144.01	107.17	89.06	221.49	211.41	10.08	21.975	
1,200.00	1,183.78	1,202.51	1,190.67	5.12	4.84	-144.72	102.63	101.55	241.55	230.96	10.59	22.806	
1,300.00	1,279.86	1,304.58	1,287.69	5.51	5.10	-145.33	98.08	114.03	261.65	250.52	11.13	23.500	
1,400.00	1,375.95	1,406.66	1,384.71	5.93	5.38	-145.84	93.53	126.52	281.77	270.07	11.70	24.081	
1,500.00	1,472.04	1,508.73	1,481.72	6.36	5.66	-146.29	88.99	139.01	301.91	289.62	12.29	24.567	
1,600.00	1,568.13	1,589.19	1,578.74	6.81	5.89	-146.69	84.44	151.50	322.07	309.23	12.83	25.096	
1,700.00	1,664.21	1,687.12	1,675.76	7.27	6.18	-147.03	79.90	163.99	342.24	328.80	13.44	25.462	
1,800.00	1,760.30	1,785.04	1,772.78	7.74	6.47	-147.34	75.35	176.48	362.42	348.35	14.06	25.774	
1,900.00	1,856.39	1,882.97	1,869.80	8.01	6.65	-147.61	70.81	188.96	382.60	368.56	14.05	27.235	
2,000.00	1,952.48	1,980.89	1,966.82	8.07	6.70	-147.86	66.26	201.45	402.80	388.67	14.13	28.509	
2,100.00	2,048.56	2,078.82	2,063.84	8.17	6.74	-148.09	61.72	213.94	423.00	408.78	14.22	29.746	
2,200.00	2,144.65	2,176.74	2,160.86	8.28	6.80	-148.29	57.17	226.43	443.21	428.87	14.35	30.895	
2,300.00	2,240.74	2,274.67	2,257.88	8.42	6.87	-148.48	52.63	238.92	463.42	448.92	14.50	31.952	
2,400.00	2,336.83	2,372.59	2,354.90	8.58	6.95	-148.65	48.08	251.41	483.64	468.95	14.69	32.916	
2,500.00	2,432.91	2,470.52	2,451.92	8.75	7.05	-148.80	43.53	263.90	503.86	488.95	14.91	33.786	
2,600.00	2,529.00	2,568.45	2,548.94	8.95	7.16	-148.95	38.99	276.38	524.09	508.92	15.16	34.565	
2,700.00	2,625.09	2,666.37	2,645.96	9.16	7.28	-149.08	34.44	288.87	544.31	528.88	15.44	35.257	
2,800.00	2,721.18	2,764.30	2,742.98	9.39	7.41	-149.21	29.90	301.36	564.54	548.80	15.74	35.866	
2,900.00	2,817.26	2,862.22	2,839.99	9.63	7.56	-149.32	25.35	313.85	584.78	568.71	16.07	36.397	
3,000.00	2,913.35	2,960.15	2,937.01	9.89	7.71	-149.43	20.81	326.34	605.01	588.59	16.42	36.856	
3,100.00	3,009.44	3,058.07	3,034.03	10.15	7.87	-149.53	16.26	338.83	625.25	608.46	16.79	37.248	
3,200.00	3,105.53	3,156.00	3,131.05	10.43	8.04	-149.63	11.72	351.32	645.48	628.31	17.18	37.581	
3,300.00	3,201.61	3,253.92	3,228.07	10.73	8.22	-149.71	7.17	363.80	665.72	648.14	17.58	37.859	
3,400.00	3,297.70	3,351.85	3,325.09	11.03	8.41	-149.80	2.63	376.29	685.97	667.96	18.01	38.089	
3,500.00	3,393.79	3,449.77	3,422.11	11.34	8.61	-149.88	-1.92	388.78	706.21	687.76	18.45	38.275	
3,600.00	3,489.88	3,547.70	3,519.13	11.66	8.81	-149.95	-6.46	401.27	726.45	707.54	18.91	38.422	
3,700.00	3,585.96	3,645.62	3,616.15	11.98	9.02	-150.02	-11.01	413.76	746.70	727.32	19.38	38.535	
3,800.00	3,682.05	3,743.55	3,713.17	12.32	9.23	-150.09	-15.56	426.25	766.94	747.08	19.86	38.619	
3,900.00	3,778.14	3,841.47	3,810.19	12.66	9.45	-150.15	-20.10	438.73	787.19	766.84	20.35	38.676	
4,000.00	3,874.23	3,939.40	3,907.21	13.00	9.68	-150.21	-24.65	451.22	807.44	786.58	20.86	38.711	
4,100.00	3,970.32	4,037.32	4,004.23	13.35	9.91	-150.27	-29.19	463.71	827.69	806.31	21.37	38.726	
4,200.00	4,066.40	4,135.25	4,101.25	13.71	10.14	-150.32	-33.74	476.20	847.93	826.04	21.90	38.723	
4,300.00	4,162.49	4,233.18	4,198.26	14.07	10.38	-150.38	-38.28	488.69	868.18	845.75	22.43	38.706	
4,400.00	4,258.58	4,331.10	4,295.28	14.44	10.63	-150.43	-42.83	501.18	888.44	865.46	22.97	38.676	
4,500.00	4,354.67	4,429.03	4,392.30	14.81	10.87	-150.47	-47.37	513.67	908.69	885.17	23.52	38.635	
4,600.00	4,450.75	4,526.95	4,489.32	15.18	11.12	-150.52	-51.92	526.15	928.94	904.86	24.08	38.585	
4,700.00	4,546.84	4,624.88	4,586.34	15.56	11.38	-150.56	-56.46	538.64	949.19	924.55	24.64	38.527	
4,800.00	4,642.93	4,722.80	4,683.36	15.94	11.63	-150.60	-61.01	551.13	969.44	944.24	25.21	38.462	
4,900.00	4,739.02	4,820.73	4,780.38	16.32	11.89	-150.64	-65.56	563.62	989.70	963.92	25.78	38.392	
5,000.00	4,835.10	4,918.65	4,877.40	16.71	12.15	-150.68	-70.10	576.11	1,009.95	983.59	26.36	38.317	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	
5,100.00	4,931.19	5,016.58	4,974.42	17.10	12.42	-150.72	-74.65	588.60	1,030.20	1,003.26	26.94	38.238	
5,200.00	5,027.28	5,114.50	5,071.44	17.49	12.68	-150.75	-79.19	601.09	1,050.46	1,022.93	27.53	38.157	
5,300.00	5,123.37	5,212.43	5,168.46	17.88	12.95	-150.79	-83.74	613.57	1,070.71	1,042.59	28.12	38.073	
5,400.00	5,219.45	5,310.35	5,265.48	18.28	13.22	-150.82	-88.28	626.06	1,090.97	1,062.25	28.72	37.987	
5,500.00	5,315.54	5,408.28	5,362.50	18.67	13.49	-150.85	-92.83	638.55	1,111.22	1,081.90	29.32	37.900	
5,600.00	5,411.63	5,506.20	5,459.51	19.07	13.77	-150.88	-97.37	651.04	1,131.48	1,101.56	29.92	37.811	
5,700.00	5,507.72	5,604.13	5,556.53	19.47	14.04	-150.91	-101.92	663.53	1,151.74	1,121.20	30.53	37.723	
5,800.00	5,603.80	5,702.05	5,653.55	19.88	14.32	-150.94	-106.46	676.02	1,171.99	1,140.85	31.14	37.633	
5,900.00	5,699.89	5,800.02	5,750.57	20.28	14.60	-150.97	-111.01	688.50	1,192.25	1,160.49	31.76	37.544	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.35	179.96	-1.11	179.97				
100.00	100.00	100.00	100.00	3.28	3.28	-0.35	179.96	-1.11	179.97	172.44	7.53	23.903	
200.00	200.00	200.00	200.00	3.31	3.31	-0.35	179.96	-1.11	179.97	172.39	7.57	23.761	CC
200.00	200.00	200.00	200.00	3.31	3.31	-0.35	179.96	-1.11	179.97	172.39	7.57	23.761	ES
300.00	300.00	300.28	300.26	3.35	3.35	-153.36	179.89	0.64	180.28	172.62	7.66	23.540	SF
400.00	399.93	400.37	400.20	3.40	3.41	-152.18	179.66	5.88	183.22	175.44	7.78	23.557	
500.00	499.68	500.08	499.53	3.49	3.50	-150.46	179.28	14.57	189.28	181.33	7.95	23.815	
600.00	599.13	600.65	598.09	3.59	3.62	-148.42	178.76	26.39	198.59	190.42	8.17	24.296	
700.00	698.15	701.57	696.39	3.73	3.77	-146.85	178.22	38.84	211.06	202.60	8.45	24.964	
800.00	796.63	802.82	794.36	3.91	3.94	-145.91	177.68	51.23	226.50	217.71	8.79	25.776	
900.00	894.44	904.51	891.88	4.14	4.13	-145.50	177.14	63.58	244.81	235.64	9.17	26.692	
1,000.00	991.46	1,006.78	988.83	4.42	4.35	-145.52	176.60	75.85	265.94	256.34	9.61	27.687	
1,100.00	1,087.69	1,109.66	1,085.18	4.75	4.58	-145.96	176.07	88.04	289.60	279.51	10.09	28.714	
1,200.00	1,183.78	1,187.35	1,181.43	5.12	4.76	-146.50	175.54	100.22	313.70	303.17	10.53	29.794	
1,300.00	1,279.86	1,284.36	1,277.67	5.51	5.00	-146.97	175.01	112.40	337.82	326.77	11.04	30.586	
1,400.00	1,375.95	1,381.38	1,373.92	5.93	5.25	-147.38	174.47	124.59	361.95	350.37	11.58	31.244	
1,500.00	1,472.04	1,478.39	1,470.16	6.36	5.50	-147.74	173.94	136.77	386.10	373.96	12.14	31.791	
1,600.00	1,568.13	1,575.40	1,566.40	6.81	5.77	-148.05	173.41	148.95	410.27	397.55	12.72	32.247	
1,700.00	1,664.21	1,672.42	1,662.65	7.27	6.04	-148.33	172.88	161.13	434.44	421.13	13.32	32.628	
1,800.00	1,760.30	1,769.43	1,758.89	7.74	6.31	-148.58	172.35	173.31	458.63	444.71	13.92	32.947	
1,900.00	1,856.39	1,866.44	1,855.14	8.01	6.50	-148.80	171.81	185.49	482.82	468.89	13.92	34.674	
2,000.00	1,952.48	1,963.46	1,951.38	8.07	6.57	-149.01	171.28	197.67	507.02	492.99	14.03	36.148	
2,100.00	2,048.56	2,060.47	2,047.63	8.17	6.61	-149.19	170.75	209.85	531.22	517.10	14.11	37.636	
2,200.00	2,144.65	2,157.48	2,143.87	8.28	6.66	-149.36	170.22	222.03	555.43	541.19	14.24	39.015	
2,300.00	2,240.74	2,254.50	2,240.11	8.42	6.72	-149.51	169.69	234.21	579.64	565.25	14.39	40.281	
2,400.00	2,336.83	2,351.51	2,336.36	8.58	6.80	-149.66	169.16	246.40	603.85	589.28	14.57	41.433	
2,500.00	2,432.91	2,448.52	2,432.60	8.75	6.89	-149.79	168.62	258.58	628.07	613.28	14.79	42.471	
2,600.00	2,529.00	2,545.54	2,528.85	8.95	6.99	-149.91	168.09	270.76	652.29	637.26	15.03	43.397	
2,700.00	2,625.09	2,642.55	2,625.09	9.16	7.10	-150.02	167.56	282.94	676.52	661.22	15.30	44.217	
2,800.00	2,721.18	2,739.56	2,721.33	9.39	7.22	-150.13	167.03	295.12	700.74	685.15	15.59	44.936	
2,900.00	2,817.26	2,836.58	2,817.58	9.63	7.36	-150.22	166.50	307.30	724.97	709.06	15.91	45.560	
3,000.00	2,913.35	2,933.59	2,913.82	9.89	7.50	-150.32	165.96	319.48	749.20	732.95	16.25	46.095	
3,100.00	3,009.44	3,030.60	3,010.07	10.15	7.65	-150.40	165.43	331.66	773.43	756.82	16.61	46.551	
3,200.00	3,105.53	3,127.62	3,106.31	10.43	7.81	-150.48	164.90	343.84	797.67	780.67	17.00	46.933	
3,300.00	3,201.61	3,224.63	3,202.55	10.73	7.98	-150.56	164.37	356.02	821.90	804.51	17.40	47.249	
3,400.00	3,297.70	3,321.64	3,298.80	11.03	8.16	-150.63	163.84	368.21	846.14	828.33	17.81	47.505	
3,500.00	3,393.79	3,418.66	3,395.04	11.34	8.34	-150.70	163.31	380.39	870.38	852.13	18.24	47.709	
3,600.00	3,489.88	3,515.67	3,491.29	11.66	8.53	-150.76	162.77	392.57	894.61	875.92	18.69	47.866	
3,700.00	3,585.96	3,612.68	3,587.53	11.98	8.73	-150.82	162.24	404.75	918.85	899.70	19.15	47.982	
3,800.00	3,682.05	3,709.70	3,683.78	12.32	8.93	-150.88	161.71	416.93	943.09	923.47	19.62	48.062	
3,900.00	3,778.14	3,806.71	3,780.02	12.66	9.14	-150.93	161.18	429.11	967.33	947.23	20.11	48.110	
4,000.00	3,874.23	3,903.72	3,876.26	13.00	9.36	-150.98	160.65	441.29	991.58	970.97	20.60	48.131	
4,100.00	3,970.32	4,000.74	3,972.51	13.35	9.58	-151.03	160.11	453.47	1,015.82	994.71	21.11	48.127	
4,200.00	4,066.40	4,102.25	4,068.75	13.71	9.81	-151.08	159.58	465.65	1,040.06	1,018.43	21.63	48.080	
4,300.00	4,162.49	4,205.24	4,165.00	14.07	10.05	-151.13	159.05	477.83	1,064.31	1,042.14	22.17	48.009	
4,400.00	4,258.58	4,308.22	4,261.24	14.44	10.30	-151.17	158.52	490.02	1,088.55	1,065.84	22.71	47.922	
4,500.00	4,354.67	4,388.79	4,357.48	14.81	10.49	-151.21	157.99	502.20	1,112.80	1,089.58	23.21	47.936	
4,600.00	4,450.75	4,485.80	4,453.73	15.18	10.73	-151.25	157.45	514.38	1,137.04	1,113.28	23.76	47.856	
4,700.00	4,546.84	4,582.82	4,549.97	15.56	10.97	-151.29	156.92	526.56	1,161.29	1,136.98	24.31	47.766	
4,800.00	4,642.93	4,679.83	4,646.22	15.94	11.22	-151.32	156.39	538.74	1,185.53	1,160.66	24.87	47.669	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 4N-30C-M - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.00	0.00	0.00	0.00	3.28	3.28	-0.32	199.99	-1.11	199.99				
100.00	100.00	100.00	100.00	3.28	3.28	-0.32	199.99	-1.11	199.99	192.46	7.53	26.564	
200.00	200.00	200.00	200.00	3.31	3.31	-0.32	199.99	-1.11	199.99	192.42	7.57	26.406 CC	
201.74	201.74	201.74	201.74	3.31	3.31	-153.82	199.99	-1.11	199.99	192.42	7.58	26.402 ES	
300.00	300.00	298.73	298.71	3.35	3.35	-153.39	200.30	0.56	200.70	193.04	7.66	26.207 SF	
400.00	399.93	397.23	397.08	3.40	3.41	-152.38	201.24	5.56	204.81	197.03	7.78	26.332	
500.00	499.68	495.25	494.73	3.49	3.50	-150.94	202.79	13.83	212.79	204.84	7.95	26.773	
600.00	599.13	606.85	591.94	3.59	3.63	-149.20	204.91	25.20	224.69	216.50	8.19	27.440	
700.00	698.15	708.14	689.86	3.73	3.78	-147.83	207.20	37.42	239.89	231.42	8.47	28.320	
800.00	796.63	809.85	787.37	3.91	3.95	-146.99	209.48	49.60	258.08	249.27	8.80	29.311	
900.00	894.44	887.90	884.34	4.14	4.10	-146.61	211.75	61.71	279.15	270.00	9.14	30.537	
1,000.00	991.46	984.99	980.65	4.42	4.30	-146.58	214.00	73.73	303.06	293.50	9.56	31.707	
1,100.00	1,087.69	1,081.38	1,076.28	4.75	4.51	-146.94	216.23	85.68	329.51	319.49	10.02	32.894	
1,200.00	1,183.78	1,177.66	1,171.79	5.12	4.74	-147.42	218.46	97.60	356.39	345.89	10.50	33.953	
1,300.00	1,279.86	1,273.94	1,267.30	5.51	4.97	-147.84	220.70	109.53	383.29	372.29	11.00	34.832	
1,400.00	1,375.95	1,370.22	1,362.81	5.93	5.22	-148.20	222.93	121.45	410.22	398.68	11.54	35.560	
1,500.00	1,472.04	1,466.49	1,458.32	6.36	5.47	-148.52	225.16	133.38	437.15	425.06	12.09	36.165	
1,600.00	1,568.13	1,562.77	1,553.83	6.81	5.73	-148.80	227.39	145.31	464.09	451.44	12.66	36.667	
1,700.00	1,664.21	1,659.05	1,649.34	7.27	5.99	-149.05	229.62	157.23	491.05	477.81	13.24	37.084	
1,800.00	1,760.30	1,755.33	1,744.85	7.74	6.26	-149.28	231.86	169.16	518.01	504.17	13.84	37.432	
1,900.00	1,856.39	1,851.61	1,840.36	8.01	6.47	-149.48	234.09	181.09	544.98	531.12	13.86	39.320	
2,000.00	1,952.48	1,947.88	1,935.87	8.07	6.56	-149.66	236.32	193.01	571.96	557.98	13.98	40.911	
2,100.00	2,048.56	2,044.16	2,031.38	8.17	6.59	-149.83	238.55	204.94	598.94	584.87	14.07	42.579	
2,200.00	2,144.65	2,140.44	2,126.89	8.28	6.64	-149.98	240.78	216.87	625.92	611.73	14.19	44.125	
2,300.00	2,240.74	2,236.72	2,222.40	8.42	6.70	-150.12	243.02	228.79	652.91	638.57	14.34	45.545	
2,400.00	2,336.83	2,333.00	2,317.91	8.58	6.77	-150.25	245.25	240.72	679.90	665.38	14.52	46.837	
2,500.00	2,432.91	2,429.27	2,413.42	8.75	6.85	-150.37	247.48	252.65	706.89	692.17	14.73	48.001	
2,600.00	2,529.00	2,525.55	2,508.93	8.95	6.95	-150.48	249.71	264.57	733.89	718.92	14.96	49.042	
2,700.00	2,625.09	2,621.83	2,604.44	9.16	7.06	-150.58	251.94	276.50	760.89	745.66	15.23	49.962	
2,800.00	2,721.18	2,718.11	2,699.95	9.39	7.18	-150.68	254.18	288.43	787.89	772.37	15.52	50.769	
2,900.00	2,817.26	2,814.38	2,795.46	9.63	7.31	-150.76	256.41	300.35	814.89	799.06	15.83	51.469	
3,000.00	2,913.35	2,910.66	2,890.97	9.89	7.45	-150.85	258.64	312.28	841.90	825.73	16.17	52.071	
3,100.00	3,009.44	3,006.94	2,986.48	10.15	7.59	-150.93	260.87	324.20	868.90	852.38	16.52	52.584	
3,200.00	3,105.53	3,103.22	3,081.99	10.43	7.75	-151.00	263.10	336.13	895.91	879.01	16.90	53.010	
3,300.00	3,201.61	3,200.51	3,177.50	10.73	7.92	-151.07	265.34	348.06	922.92	905.62	17.30	53.359	
3,400.00	3,297.70	3,304.23	3,273.01	11.03	8.10	-151.13	267.57	359.98	949.93	932.21	17.72	53.603	
3,500.00	3,393.79	3,407.95	3,368.52	11.34	8.30	-151.20	269.80	371.91	976.94	958.78	18.16	53.787	
3,600.00	3,489.88	3,488.33	3,464.03	11.66	8.45	-151.25	272.03	383.84	1,003.95	985.38	18.57	54.051	
3,700.00	3,585.96	3,584.61	3,559.54	11.98	8.65	-151.31	274.26	395.76	1,030.96	1,011.94	19.03	54.179	
3,800.00	3,682.05	3,680.88	3,655.05	12.32	8.84	-151.36	276.50	407.69	1,057.98	1,038.48	19.50	54.266	
3,900.00	3,778.14	3,777.16	3,750.56	12.66	9.05	-151.41	278.73	419.62	1,084.99	1,065.02	19.98	54.317	
4,000.00	3,874.23	3,873.44	3,846.07	13.00	9.26	-151.46	280.96	431.54	1,112.01	1,091.54	20.47	54.337	
4,100.00	3,970.32	3,969.72	3,941.58	13.35	9.47	-151.50	283.19	443.47	1,139.02	1,118.06	20.96	54.330	
4,200.00	4,066.40	4,066.00	4,037.09	13.71	9.69	-151.55	285.42	455.40	1,166.04	1,144.57	21.47	54.300	
4,300.00	4,162.49	4,162.27	4,132.61	14.07	9.91	-151.59	287.66	467.32	1,193.06	1,171.07	21.99	54.250	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.27	60.10	-0.28	60.10					
100.00	100.00	100.00	100.00	3.28	3.28	-0.27	60.10	-0.28	60.10	52.57	7.53	7.983		
200.00	200.00	200.00	200.00	3.31	3.31	-0.27	60.10	-0.28	60.10	52.53	7.57	7.935		
300.00	300.00	301.70	301.68	3.35	3.35	-152.94	58.64	0.78	59.06	51.40	7.65	7.715		
400.00	399.93	403.33	403.16	3.40	3.41	-151.35	54.27	3.97	57.92	50.16	7.76	7.461		
500.00	499.68	504.88	504.30	3.49	3.50	-149.17	47.00	9.27	57.12	49.20	7.91	7.217		
600.00	599.13	606.35	604.99	3.59	3.61	-146.43	36.85	16.67	56.72	48.61	8.12	6.990		
634.94	633.79	641.78	640.03	3.64	3.67	-145.34	32.63	19.75	56.69	48.49	8.20	6.913 CC		
700.00	698.15	707.72	705.07	3.73	3.77	-143.17	23.84	26.16	56.80	48.43	8.38	6.781 ES		
800.00	796.63	808.76	804.20	3.91	3.98	-139.53	8.09	37.65	57.48	48.76	8.71	6.595		
900.00	894.44	908.69	902.02	4.14	4.22	-137.41	-8.43	49.69	60.21	51.08	9.13	6.592		
1,000.00	991.46	1,008.54	999.76	4.42	4.49	-137.58	-24.93	61.72	65.55	55.95	9.60	6.827		
1,100.00	1,087.69	1,108.22	1,097.34	4.75	4.79	-139.38	-41.40	73.73	73.23	63.12	10.11	7.246		
1,200.00	1,183.78	1,207.86	1,194.87	5.12	5.10	-141.11	-57.86	85.74	81.36	70.72	10.64	7.647		
1,300.00	1,279.86	1,307.51	1,292.41	5.51	5.43	-142.52	-74.32	97.75	89.55	78.35	11.20	7.995		
1,400.00	1,375.95	1,407.15	1,389.94	5.93	5.77	-143.69	-90.79	109.75	97.79	86.01	11.79	8.297		
1,500.00	1,472.04	1,506.79	1,487.48	6.36	6.13	-144.68	-107.25	121.76	106.06	93.67	12.39	8.560		
1,600.00	1,568.13	1,606.43	1,585.02	6.81	6.49	-145.53	-123.72	133.76	114.36	101.35	13.01	8.789		
1,700.00	1,664.21	1,706.07	1,682.55	7.27	6.87	-146.26	-140.18	145.77	122.68	109.04	13.65	8.990		
1,800.00	1,760.30	1,805.72	1,780.09	7.74	7.24	-146.90	-156.64	157.77	131.02	116.74	14.29	9.172		
1,900.00	1,856.39	1,905.36	1,877.62	8.01	7.45	-147.46	-173.11	169.78	139.37	125.13	14.25	9.783		
2,000.00	1,952.48	2,005.00	1,975.16	8.07	7.49	-147.96	-189.57	181.78	147.74	133.45	14.29	10.341		
2,100.00	2,048.56	2,104.64	2,072.70	8.17	7.55	-148.41	-206.03	193.79	156.11	141.74	14.37	10.862		
2,200.00	2,144.65	2,204.28	2,170.23	8.28	7.64	-148.81	-222.50	205.80	164.50	150.00	14.49	11.349		
2,300.00	2,240.74	2,303.92	2,267.77	8.42	7.74	-149.17	-238.96	217.80	172.88	158.23	14.65	11.797		
2,400.00	2,336.83	2,403.57	2,365.31	8.58	7.86	-149.50	-255.43	229.81	181.28	166.43	14.85	12.207		
2,500.00	2,432.91	2,503.21	2,462.84	8.75	8.00	-149.80	-271.89	241.81	189.68	174.60	15.08	12.579		
2,600.00	2,529.00	2,602.85	2,560.38	8.95	8.15	-150.07	-288.35	253.82	198.09	182.75	15.34	12.913		
2,700.00	2,625.09	2,702.49	2,657.91	9.16	8.31	-150.32	-304.82	265.82	206.50	190.87	15.63	13.211		
2,800.00	2,721.18	2,802.13	2,755.45	9.39	8.49	-150.55	-321.28	277.83	214.91	198.96	15.95	13.475		
2,900.00	2,817.26	2,901.78	2,852.99	9.63	8.68	-150.77	-337.75	289.84	223.33	207.04	16.29	13.706		
3,000.00	2,913.35	3,001.42	2,950.52	9.89	8.88	-150.96	-354.21	301.84	231.75	215.09	16.66	13.908		
3,100.00	3,009.44	3,101.06	3,048.06	10.15	9.09	-151.15	-370.67	313.85	240.17	223.12	17.06	14.082		
3,200.00	3,105.53	3,200.70	3,145.59	10.43	9.32	-151.32	-387.14	325.85	248.60	231.13	17.47	14.231		
3,300.00	3,201.61	3,300.34	3,243.13	10.73	9.55	-151.48	-403.60	337.86	257.02	239.12	17.90	14.357		
3,400.00	3,297.70	3,400.02	3,340.67	11.03	9.79	-151.63	-420.07	349.86	265.45	247.10	18.35	14.463		
3,500.00	3,393.79	3,500.37	3,438.20	11.34	10.04	-151.77	-436.53	361.87	273.88	255.06	18.82	14.550		
3,600.00	3,489.88	3,600.73	3,535.74	11.66	10.30	-151.91	-452.99	373.88	282.31	263.00	19.31	14.621		
3,700.00	3,585.96	3,701.09	3,633.27	11.98	10.57	-152.03	-469.46	385.88	290.75	270.94	19.81	14.678		
3,800.00	3,682.05	3,801.45	3,730.81	12.32	10.84	-152.15	-485.92	397.89	299.18	278.86	20.32	14.723		
3,900.00	3,778.14	3,901.81	3,828.35	12.66	11.12	-152.26	-502.38	409.89	307.62	286.77	20.85	14.756		
4,000.00	3,874.23	4,002.17	3,925.88	13.00	11.40	-152.37	-518.85	421.90	316.05	294.67	21.38	14.781		
4,100.00	3,970.32	4,102.52	4,023.42	13.35	11.69	-152.47	-535.31	433.90	324.49	302.56	21.93	14.797		
4,200.00	4,066.40	4,202.88	4,120.96	13.71	11.99	-152.56	-551.78	445.91	332.93	310.44	22.49	14.806		
4,300.00	4,162.49	4,303.24	4,218.49	14.07	12.29	-152.65	-568.24	457.92	341.37	318.32	23.05	14.809		
4,400.00	4,258.58	4,396.40	4,316.03	14.44	12.57	-152.74	-584.70	469.92	349.81	326.21	23.61	14.819		
4,500.00	4,354.67	4,503.96	4,413.56	14.81	12.90	-152.82	-601.17	481.93	358.25	334.05	24.21	14.799		
4,600.00	4,450.75	4,604.31	4,511.10	15.18	13.21	-152.90	-617.63	493.93	366.70	341.90	24.80	14.789		
4,700.00	4,546.84	4,704.67	4,608.64	15.56	13.52	-152.97	-634.10	505.94	375.14	349.75	25.39	14.775		
4,800.00	4,642.93	4,794.97	4,706.17	15.94	13.81	-153.05	-650.56	517.94	383.58	357.62	25.96	14.774		
4,900.00	4,739.02	4,905.39	4,803.71	16.32	14.16	-153.11	-667.02	529.95	392.02	365.43	26.60	14.738		
5,000.00	4,835.10	5,005.75	4,901.24	16.71	14.48	-153.18	-683.49	541.96	400.47	373.26	27.21	14.717		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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		
5,100.00	4,931.19	5,106.11	4,998.78	17.10	14.81	-153.24	-699.95	553.96	408.91	381.09	27.83	14.694		
5,200.00	5,027.28	5,206.46	5,096.32	17.49	15.14	-153.30	-716.42	565.97	417.36	388.91	28.45	14.670		
5,300.00	5,123.37	5,293.18	5,193.85	17.88	15.42	-153.36	-732.88	577.97	425.81	396.77	29.04	14.665		
5,400.00	5,219.45	5,407.18	5,291.39	18.28	15.80	-153.42	-749.34	589.98	434.25	404.55	29.71	14.618		
5,500.00	5,315.54	5,492.46	5,388.92	18.67	16.08	-153.47	-765.81	601.98	442.70	412.40	30.29	14.613		
5,600.00	5,411.63	5,607.90	5,486.46	19.07	16.47	-153.52	-782.27	613.99	451.14	420.17	30.98	14.564		
5,700.00	5,507.72	5,708.25	5,584.00	19.47	16.81	-153.57	-798.73	625.99	459.59	427.97	31.62	14.536		
5,800.00	5,603.80	5,791.39	5,681.53	19.88	17.09	-153.62	-815.20	638.00	468.04	435.83	32.21	14.531		
5,900.00	5,699.89	5,908.97	5,779.07	20.28	17.49	-153.66	-831.66	650.01	476.49	443.58	32.91	14.479		
6,000.00	5,795.98	5,990.67	5,876.61	20.69	17.77	-153.71	-848.13	662.01	484.94	451.44	33.50	14.476		
6,100.00	5,892.07	6,090.31	5,974.14	21.09	18.11	-153.75	-864.59	674.02	493.38	459.23	34.15	14.448		
6,200.00	5,988.15	6,189.95	6,071.68	21.50	18.45	-153.79	-881.05	686.02	501.83	467.03	34.80	14.420		
6,300.00	6,084.24	6,289.60	6,169.21	21.91	18.79	-153.83	-897.52	698.03	510.28	474.83	35.46	14.392		
6,400.00	6,180.33	6,389.24	6,266.75	22.32	19.14	-153.87	-913.98	710.03	518.73	482.62	36.11	14.364		
6,500.00	6,276.42	6,488.88	6,364.29	22.74	19.49	-153.91	-930.45	722.04	527.18	490.41	36.77	14.337		
6,600.00	6,372.51	6,588.52	6,461.82	23.15	19.83	-153.95	-946.91	734.05	535.63	498.20	37.43	14.309		
6,700.00	6,468.59	6,688.16	6,559.36	23.56	20.18	-153.98	-963.37	746.05	544.08	505.99	38.09	14.282		
6,800.00	6,565.18	6,787.49	6,656.59	23.88	20.53	175.35	-979.79	758.02	552.58	513.80	38.78	14.249		
6,900.00	6,661.43	6,887.87	6,755.37	24.11	20.76	146.28	-996.45	762.37	561.31	521.90	39.41	14.243		
7,000.00	6,754.97	6,990.66	6,855.94	24.30	20.94	129.60	-1,013.40	750.47	570.14	530.23	39.91	14.287		
7,100.00	6,843.50	7,095.98	6,955.65	24.44	21.07	120.76	-1,030.18	721.43	578.80	538.54	40.26	14.376		
7,200.00	6,924.84	7,203.87	7,051.48	24.53	21.16	115.80	-1,046.29	674.84	587.01	546.52	40.49	14.498		
7,300.00	6,996.99	7,314.28	7,140.07	24.58	21.19	112.83	-1,061.16	610.90	594.48	553.84	40.64	14.629		
7,400.00	7,058.17	7,427.00	7,217.92	24.59	21.19	110.98	-1,074.20	530.64	600.93	560.14	40.78	14.734		
7,500.00	7,106.87	7,541.70	7,281.57	24.57	21.14	109.79	-1,084.82	436.00	606.10	565.06	41.03	14.770		
7,600.00	7,141.90	7,657.89	7,327.94	24.51	21.06	109.03	-1,092.52	329.91	609.77	568.28	41.49	14.696		
7,700.00	7,162.39	7,774.98	7,354.67	24.43	20.95	108.57	-1,096.90	216.17	611.79	569.55	42.24	14.484		
7,800.00	7,168.02	7,888.36	7,360.99	24.34	20.82	108.38	-1,097.83	103.09	612.15	568.89	43.26	14.152		
7,900.00	7,168.16	7,988.36	7,360.97	24.28	20.72	108.36	-1,097.71	3.09	612.05	567.59	44.46	13.766		
8,000.00	7,168.30	8,088.36	7,360.94	24.29	21.14	108.35	-1,097.59	-96.91	611.95	566.09	45.86	13.344		
8,100.00	7,168.44	8,188.36	7,360.91	24.47	21.98	108.33	-1,097.47	-196.91	611.86	564.42	47.44	12.898		
8,200.00	7,168.58	8,288.36	7,360.89	24.93	22.90	108.32	-1,097.35	-296.91	611.76	562.58	49.18	12.440		
8,300.00	7,168.72	8,388.36	7,360.86	25.68	23.90	108.31	-1,097.23	-396.91	611.66	560.60	51.06	11.979		
8,400.00	7,168.87	8,488.36	7,360.84	26.59	24.96	108.29	-1,097.11	-496.91	611.57	558.49	53.08	11.522		
8,500.00	7,169.01	8,588.36	7,360.81	27.61	26.08	108.28	-1,096.99	-596.91	611.47	556.26	55.21	11.076		
8,600.00	7,169.15	8,688.36	7,360.79	28.71	27.26	108.27	-1,096.87	-696.91	611.37	553.94	57.44	10.644		
8,700.00	7,169.29	8,788.36	7,360.76	29.86	28.48	108.25	-1,096.75	-796.91	611.28	551.52	59.76	10.229		
8,800.00	7,169.43	8,888.36	7,360.74	31.06	29.74	108.24	-1,096.63	-896.91	611.18	549.02	62.17	9.832		
8,900.00	7,169.57	8,988.36	7,360.71	32.30	31.04	108.23	-1,096.51	-996.91	611.08	546.44	64.64	9.454		
9,000.00	7,169.71	9,088.36	7,360.68	33.58	32.38	108.21	-1,096.39	-1,096.90	610.99	543.81	67.18	9.095		
9,100.00	7,169.86	9,188.36	7,360.66	34.89	33.74	108.20	-1,096.27	-1,196.90	610.89	541.12	69.77	8.755		
9,200.00	7,170.00	9,288.36	7,360.63	36.23	35.12	108.19	-1,096.15	-1,296.90	610.79	538.37	72.42	8.434		
9,300.00	7,170.14	9,388.36	7,360.61	37.60	36.53	108.17	-1,096.03	-1,396.90	610.70	535.59	75.11	8.131		
9,400.00	7,170.28	9,488.36	7,360.58	38.99	37.96	108.16	-1,095.91	-1,496.90	610.60	532.76	77.84	7.844		
9,413.58	7,170.30	9,501.35	7,360.58	39.18	38.15	108.16	-1,095.89	-1,509.89	610.59	532.39	78.20	7.808		
9,500.00	7,170.42	9,573.20	7,360.56	40.40	39.19	108.12	-1,094.83	-1,581.74	611.62	531.51	80.11	7.635		
9,600.00	7,170.56	9,656.22	7,360.54	41.82	40.40	108.01	-1,091.37	-1,664.68	615.38	533.09	82.29	7.478		
9,700.00	7,170.70	9,738.97	7,360.52	43.27	41.61	107.84	-1,085.52	-1,747.23	621.90	537.45	84.44	7.365		
9,800.00	7,170.84	9,833.13	7,360.49	44.73	43.00	107.58	-1,076.77	-1,840.98	630.53	543.46	87.07	7.242		
9,900.00	7,170.99	9,932.70	7,360.47	46.20	44.47	107.32	-1,067.40	-1,940.11	639.30	549.36	89.95	7.108		
10,000.00	7,171.13	10,032.28	7,360.44	47.69	45.96	107.06	-1,058.02	-2,039.24	648.09	555.24	92.85	6.980		
10,100.00	7,171.27	10,131.85	7,360.42	49.19	47.46	106.81	-1,048.65	-2,138.37	656.90	561.11	95.79	6.858		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5C-30-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
10,200.00	7,171.41	10,231.42	7,360.39	50.70	48.98	106.57	-1,039.27	-2,237.49	665.71	566.97	98.74	6.742		
10,300.00	7,171.55	10,330.99	7,360.37	52.22	50.50	106.33	-1,029.90	-2,336.62	674.54	572.82	101.72	6.631		
10,400.00	7,171.69	10,430.56	7,360.34	53.74	52.03	106.10	-1,020.52	-2,435.75	683.38	578.66	104.72	6.526		
10,500.00	7,171.83	10,530.13	7,360.32	55.28	53.57	105.87	-1,011.15	-2,534.88	692.23	584.49	107.74	6.425		
10,600.00	7,171.97	10,629.70	7,360.29	56.82	55.11	105.65	-1,001.77	-2,634.01	701.09	590.32	110.78	6.329		
10,700.00	7,172.12	10,729.27	7,360.27	58.37	56.67	105.44	-992.39	-2,733.14	709.96	596.13	113.83	6.237		
10,800.00	7,172.26	10,828.84	7,360.24	59.93	58.23	105.23	-983.02	-2,832.27	718.84	601.95	116.89	6.150		
10,900.00	7,172.40	10,934.86	7,360.21	61.49	59.89	105.01	-973.16	-2,937.82	727.64	607.39	120.26	6.051		
11,000.00	7,172.54	11,067.33	7,360.18	63.05	61.99	104.84	-964.95	-3,070.03	733.43	608.77	124.66	5.883		
11,100.00	7,172.68	11,206.65	7,360.15	64.63	64.20	104.78	-962.74	-3,196.02	734.84	605.99	128.85	5.703		
11,200.00	7,172.82	11,306.65	7,360.12	66.20	65.80	104.77	-962.52	-3,296.02	734.85	602.90	131.95	5.569		
11,300.00	7,172.96	11,406.65	7,360.10	67.78	67.40	104.75	-962.30	-3,396.02	734.86	599.81	135.06	5.441		
11,400.00	7,173.11	11,506.65	7,360.07	69.37	69.00	104.74	-962.08	-3,496.01	734.88	596.70	138.17	5.319		
11,500.00	7,173.25	11,606.65	7,360.04	70.96	70.61	104.73	-961.85	-3,596.01	734.89	593.59	141.29	5.201		
11,600.00	7,173.39	11,706.65	7,360.02	72.55	72.22	104.71	-961.63	-3,696.01	734.90	590.48	144.42	5.089		
11,700.00	7,173.53	11,806.65	7,359.99	74.15	73.83	104.70	-961.41	-3,796.01	734.91	587.35	147.55	4.981		
11,800.00	7,173.67	11,906.65	7,359.97	75.75	75.45	104.68	-961.19	-3,896.01	734.92	584.23	150.69	4.877		
11,900.00	7,173.81	12,006.65	7,359.94	77.35	77.06	104.67	-960.96	-3,996.01	734.93	581.09	153.84	4.777		
12,000.00	7,173.95	12,106.65	7,359.92	78.96	78.68	104.66	-960.74	-4,096.01	734.94	577.95	156.99	4.681		
12,100.00	7,174.09	12,206.65	7,359.89	80.56	80.30	104.64	-960.52	-4,196.01	734.96	574.81	160.15	4.589		
12,200.00	7,174.24	12,306.65	7,359.87	82.18	81.93	104.63	-960.30	-4,296.01	734.97	571.66	163.31	4.501		
12,300.00	7,174.38	12,406.65	7,359.84	83.79	83.55	104.62	-960.08	-4,396.01	734.98	568.51	166.47	4.415		
12,400.00	7,174.52	12,506.65	7,359.81	85.40	85.18	104.60	-959.85	-4,496.01	734.99	565.35	169.64	4.333		
12,500.00	7,174.66	12,606.65	7,359.79	87.02	86.81	104.59	-959.63	-4,596.01	735.00	562.19	172.81	4.253		
12,600.00	7,174.80	12,706.65	7,359.76	88.64	88.44	104.57	-959.41	-4,696.01	735.01	559.03	175.99	4.177		
12,700.00	7,174.94	12,806.65	7,359.74	90.26	90.07	104.56	-959.19	-4,796.01	735.03	555.86	179.17	4.102		
12,800.00	7,175.08	12,906.65	7,359.71	91.88	91.70	104.55	-958.96	-4,896.01	735.04	552.69	182.35	4.031		
12,900.00	7,175.23	13,006.65	7,359.69	93.51	93.34	104.53	-958.74	-4,996.01	735.05	549.52	185.53	3.962		
13,000.00	7,175.37	13,106.65	7,359.66	95.13	94.97	104.52	-958.52	-5,096.01	735.06	546.34	188.72	3.895		
13,100.00	7,175.51	13,206.65	7,359.63	96.76	96.61	104.51	-958.30	-5,196.01	735.07	543.16	191.92	3.830		
13,200.00	7,175.65	13,306.66	7,359.61	98.39	98.25	104.49	-958.08	-5,296.01	735.09	539.98	195.11	3.768		
13,300.00	7,175.79	13,406.66	7,359.58	100.02	99.89	104.48	-957.85	-5,396.01	735.10	536.79	198.31	3.707		
13,400.00	7,175.93	13,506.66	7,359.56	101.65	101.53	104.47	-957.63	-5,496.01	735.11	533.60	201.51	3.648		
13,500.00	7,176.07	13,606.66	7,359.53	103.29	103.17	104.45	-957.41	-5,596.01	735.12	530.41	204.71	3.591		
13,600.00	7,176.21	13,706.66	7,359.51	104.92	104.81	104.44	-957.19	-5,696.01	735.13	527.22	207.91	3.536		
13,700.00	7,176.36	13,806.66	7,359.48	106.55	106.46	104.42	-956.96	-5,796.01	735.15	524.03	211.12	3.482		
13,800.00	7,176.50	13,893.34	7,359.46	108.19	107.88	104.41	-956.74	-5,896.01	735.16	521.04	214.12	3.433		
13,900.00	7,176.64	14,006.66	7,359.43	109.83	109.75	104.40	-956.52	-5,996.00	735.17	517.63	217.54	3.379		
14,000.00	7,176.78	14,106.66	7,359.40	111.47	111.39	104.38	-956.30	-6,096.00	735.18	514.43	220.75	3.330		
14,100.00	7,176.92	14,206.66	7,359.38	113.11	113.04	104.37	-956.08	-6,196.00	735.20	511.23	223.97	3.283		
14,200.00	7,177.06	14,306.66	7,359.35	114.75	114.69	104.36	-955.85	-6,296.00	735.21	508.02	227.18	3.236		
14,300.00	7,177.20	14,406.66	7,359.33	116.39	116.33	104.34	-955.63	-6,396.00	735.22	504.82	230.40	3.191		
14,400.00	7,177.35	14,506.66	7,359.30	118.03	117.98	104.33	-955.41	-6,496.00	735.23	501.61	233.62	3.147		
14,500.00	7,177.49	14,606.66	7,359.28	119.67	119.63	104.31	-955.19	-6,596.00	735.25	498.40	236.85	3.104		
14,600.00	7,177.63	14,706.66	7,359.25	121.32	121.28	104.30	-954.96	-6,696.00	735.26	495.19	240.07	3.063		
14,700.00	7,177.77	14,806.66	7,359.22	122.96	122.93	104.29	-954.74	-6,796.00	735.27	491.98	243.29	3.022		
14,800.00	7,177.91	14,906.66	7,359.20	124.61	124.58	104.27	-954.52	-6,896.00	735.28	488.76	246.52	2.983		
14,900.00	7,178.05	15,006.66	7,359.17	126.25	126.23	104.26	-954.30	-6,996.00	735.30	485.55	249.75	2.944		
15,000.00	7,178.19	15,106.66	7,359.15	127.90	127.89	104.25	-954.08	-7,096.00	735.31	482.33	252.98	2.907		
15,100.00	7,178.33	15,206.66	7,359.12	129.55	129.54	104.23	-953.85	-7,196.00	735.32	479.11	256.21	2.870		
15,200.00	7,178.48	15,306.66	7,359.10	131.19	131.19	104.22	-953.63	-7,296.00	735.34	475.90	259.44	2.834		
15,300.00	7,178.62	15,406.66	7,359.07	132.84	132.85	104.21	-953.41	-7,396.00	735.35	472.67	262.67	2.799		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	7,178.76	15,506.66	7,359.04	134.49	134.50	104.19	-953.19	-7,496.00	735.36	469.45	265.91	2.765	
15,500.00	7,178.90	15,606.66	7,359.02	136.14	136.15	104.18	-952.96	-7,596.00	735.37	466.23	269.14	2.732	
15,571.56	7,179.00	15,664.90	7,359.00	137.39	137.12	104.17	-952.81	-7,667.55	735.38	464.14	271.24	2.711 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-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	5.322		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	40.07	-0.28	40.07	32.50	7.57	5.290		
300.00	300.00	301.16	301.13	3.35	3.35	-152.75	38.58	0.71	38.99	31.34	7.65	5.094		
400.00	399.93	402.24	402.07	3.40	3.41	-150.64	34.12	3.67	37.74	29.98	7.76	4.863		
500.00	499.68	503.26	502.69	3.49	3.49	-147.79	26.70	8.58	36.77	28.86	7.91	4.648		
600.00	599.13	604.20	602.86	3.59	3.61	-144.23	16.34	15.45	36.14	28.03	8.11	4.455		
697.78	695.96	702.83	700.25	3.73	3.76	-140.12	3.39	24.05	35.92	27.55	8.37	4.292 CC		
700.00	698.15	705.07	702.45	3.73	3.77	-140.02	3.06	24.26	35.92	27.54	8.38	4.288		
800.00	796.63	805.85	801.34	3.91	3.97	-135.28	-13.12	34.99	36.19	27.47	8.72	4.151 ES		
900.00	894.44	906.13	899.13	4.14	4.22	-130.98	-31.61	47.26	37.35	28.19	9.16	4.078		
1,000.00	991.46	1,006.06	996.52	4.42	4.51	-130.50	-50.29	59.64	40.72	31.06	9.66	4.216		
1,100.00	1,087.69	1,105.89	1,093.81	4.75	4.82	-133.05	-68.95	72.02	46.17	35.99	10.19	4.534		
1,200.00	1,183.78	1,205.70	1,191.07	5.12	5.15	-135.49	-87.61	84.39	52.06	41.32	10.74	4.847		
1,300.00	1,279.86	1,305.50	1,288.34	5.51	5.50	-137.43	-106.26	96.76	58.02	46.70	11.32	5.124		
1,400.00	1,375.95	1,405.31	1,385.60	5.93	5.87	-139.01	-124.91	109.13	64.04	52.11	11.93	5.367		
1,500.00	1,472.04	1,505.11	1,482.86	6.36	6.25	-140.32	-143.57	121.50	70.09	57.54	12.56	5.582		
1,600.00	1,568.13	1,604.92	1,580.12	6.81	6.64	-141.42	-162.22	133.87	76.18	62.98	13.20	5.771		
1,700.00	1,664.21	1,704.72	1,677.39	7.27	7.04	-142.35	-180.88	146.24	82.29	68.43	13.86	5.938		
1,800.00	1,760.30	1,804.53	1,774.65	7.74	7.43	-143.16	-199.53	158.61	88.42	73.90	14.52	6.089		
1,900.00	1,856.39	1,904.33	1,871.91	8.01	7.65	-143.86	-218.19	170.98	94.56	80.08	14.48	6.529		
2,000.00	1,952.48	2,004.14	1,969.17	8.07	7.70	-144.48	-236.84	183.35	100.72	86.19	14.53	6.932		
2,100.00	2,048.56	2,103.94	2,066.44	8.17	7.78	-145.02	-255.50	195.72	106.89	92.27	14.62	7.313		
2,200.00	2,144.65	2,203.75	2,163.70	8.28	7.87	-145.51	-274.15	208.09	113.06	98.32	14.74	7.670		
2,300.00	2,240.74	2,303.55	2,260.96	8.42	7.98	-145.94	-292.80	220.46	119.24	104.34	14.91	8.000		
2,400.00	2,336.83	2,403.36	2,358.22	8.58	8.11	-146.34	-311.46	232.83	125.43	110.33	15.11	8.304		
2,500.00	2,432.91	2,503.16	2,455.49	8.75	8.26	-146.69	-330.11	245.20	131.63	116.29	15.34	8.580		
2,600.00	2,529.00	2,602.97	2,552.75	8.95	8.42	-147.01	-348.77	257.57	137.83	122.22	15.61	8.830		
2,700.00	2,625.09	2,702.77	2,650.01	9.16	8.60	-147.31	-367.42	269.94	144.03	128.12	15.91	9.054		
2,800.00	2,721.18	2,802.57	2,747.27	9.39	8.79	-147.58	-386.08	282.31	150.24	134.00	16.24	9.254		
2,900.00	2,817.26	2,902.38	2,844.54	9.63	8.99	-147.83	-404.73	294.69	156.45	139.85	16.59	9.430		
3,000.00	2,913.35	3,002.18	2,941.80	9.89	9.20	-148.06	-423.38	307.06	162.66	145.69	16.97	9.585		
3,100.00	3,009.44	3,101.99	3,039.06	10.15	9.43	-148.27	-442.04	319.43	168.87	151.50	17.37	9.720		
3,200.00	3,105.53	3,201.79	3,136.32	10.43	9.67	-148.47	-460.69	331.80	175.09	157.29	17.80	9.838		
3,300.00	3,201.61	3,301.60	3,233.59	10.73	9.92	-148.66	-479.35	344.17	181.31	163.06	18.24	9.938		
3,400.00	3,297.70	3,401.40	3,330.85	11.03	10.17	-148.83	-498.00	356.54	187.53	168.82	18.71	10.025		
3,500.00	3,393.79	3,501.21	3,428.11	11.34	10.44	-148.99	-516.66	368.91	193.75	174.56	19.19	10.098		
3,600.00	3,489.88	3,601.01	3,525.37	11.66	10.71	-149.14	-535.31	381.28	199.97	180.29	19.68	10.159		
3,700.00	3,585.96	3,700.82	3,622.64	11.98	10.99	-149.29	-553.96	393.65	206.20	186.00	20.19	10.211		
3,800.00	3,682.05	3,800.62	3,719.90	12.32	11.27	-149.42	-572.62	406.02	212.42	191.70	20.72	10.253		
3,900.00	3,778.14	3,900.43	3,817.16	12.66	11.57	-149.55	-591.27	418.39	218.65	197.40	21.26	10.287		
4,000.00	3,874.23	4,000.23	3,914.42	13.00	11.87	-149.67	-609.93	430.76	224.88	203.08	21.80	10.314		
4,100.00	3,970.32	4,100.04	4,011.69	13.35	12.17	-149.78	-628.58	443.13	231.11	208.75	22.36	10.335		
4,200.00	4,066.40	4,200.16	4,108.95	13.71	12.48	-149.89	-647.24	455.50	237.34	214.41	22.93	10.350		
4,300.00	4,162.49	4,300.35	4,206.21	14.07	12.79	-149.99	-665.89	467.87	243.57	220.06	23.51	10.361		
4,400.00	4,258.58	4,400.55	4,303.47	14.44	13.11	-150.08	-684.54	480.24	249.80	225.70	24.10	10.367		
4,500.00	4,354.67	4,500.74	4,400.74	14.81	13.43	-150.17	-703.20	492.61	256.03	231.34	24.69	10.370		
4,600.00	4,450.75	4,599.06	4,498.00	15.18	13.75	-150.26	-721.85	504.98	262.26	236.98	25.29	10.372		
4,700.00	4,546.84	4,698.87	4,595.26	15.56	14.08	-150.35	-740.51	517.35	268.50	242.60	25.89	10.369		
4,800.00	4,642.93	4,798.67	4,692.52	15.94	14.41	-150.43	-759.16	529.72	274.73	248.22	26.51	10.365		
4,900.00	4,739.02	4,901.52	4,789.79	16.32	14.76	-150.50	-777.82	542.09	280.96	253.83	27.13	10.355		
5,000.00	4,835.10	4,998.28	4,887.05	16.71	15.09	-150.57	-796.47	554.46	287.20	259.45	27.75	10.350		

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,931.19	5,098.09	4,984.31	17.10	15.43	-150.64	-815.12	566.84	293.43	265.06	28.38	10.340		
5,200.00	5,027.28	5,202.11	5,081.57	17.49	15.78	-150.71	-833.78	579.21	299.67	270.64	29.03	10.324		
5,300.00	5,123.37	5,302.31	5,178.84	17.88	16.13	-150.77	-852.43	591.58	305.91	276.24	29.66	10.312		
5,400.00	5,219.45	5,402.50	5,276.10	18.28	16.48	-150.84	-871.09	603.95	312.14	281.83	30.31	10.299		
5,500.00	5,315.54	5,502.70	5,373.36	18.67	16.83	-150.89	-889.74	616.32	318.38	287.42	30.96	10.285		
5,600.00	5,411.63	5,602.89	5,470.62	19.07	17.18	-150.95	-908.40	628.69	324.61	293.01	31.61	10.271		
5,700.00	5,507.72	5,696.91	5,567.89	19.47	17.51	-151.01	-927.05	641.06	330.85	298.61	32.24	10.262		
5,800.00	5,603.80	5,803.28	5,665.15	19.88	17.89	-151.06	-945.71	653.43	337.09	304.17	32.92	10.240		
5,900.00	5,699.89	5,896.52	5,762.41	20.28	18.22	-151.11	-964.36	665.80	343.33	309.77	33.56	10.232		
6,000.00	5,795.98	6,003.67	5,859.67	20.69	18.60	-151.16	-983.01	678.17	349.57	315.32	34.24	10.209		
6,100.00	5,892.07	6,103.87	5,956.94	21.09	18.96	-151.21	-1,001.67	690.54	355.80	320.90	34.91	10.193		
6,200.00	5,988.15	6,204.06	6,054.20	21.50	19.32	-151.25	-1,020.32	702.91	362.04	326.47	35.57	10.177		
6,300.00	6,084.24	6,295.74	6,151.46	21.91	19.66	-151.30	-1,038.98	715.28	368.28	332.06	36.22	10.169		
6,400.00	6,180.33	6,404.45	6,248.72	22.32	20.05	-151.34	-1,057.63	727.65	374.52	337.60	36.92	10.145		
6,500.00	6,276.42	6,504.65	6,345.99	22.74	20.41	-151.38	-1,076.29	740.02	380.76	343.17	37.59	10.129		
6,600.00	6,372.51	6,595.16	6,443.25	23.15	20.75	-151.42	-1,094.94	752.39	387.00	348.76	38.24	10.121		
6,700.00	6,468.59	6,697.26	6,543.13	23.56	21.04	-152.15	-1,114.16	760.31	393.01	354.22	38.78	10.133		
6,800.00	6,565.18	6,797.90	6,641.52	23.88	21.24	174.79	-1,133.28	752.58	398.83	359.79	39.04	10.216		
6,900.00	6,661.43	6,896.48	6,735.54	24.11	21.39	142.64	-1,151.74	729.80	404.85	365.65	39.20	10.328		
7,000.00	6,754.97	6,993.18	6,823.30	24.30	21.49	123.06	-1,169.15	693.36	410.87	371.57	39.30	10.455		
7,100.00	6,843.50	7,088.18	6,903.24	24.44	21.56	111.56	-1,185.21	644.78	416.69	377.34	39.35	10.588		
7,200.00	6,924.84	7,181.68	6,974.11	24.53	21.59	104.21	-1,199.64	585.65	422.10	382.70	39.40	10.713		
7,300.00	6,996.99	7,273.86	7,034.89	24.58	21.58	99.17	-1,212.23	517.61	426.87	387.40	39.47	10.815		
7,400.00	7,058.17	7,364.94	7,084.85	24.59	21.55	95.59	-1,222.81	442.29	430.83	391.21	39.62	10.875		
7,500.00	7,106.87	7,455.10	7,123.39	24.57	21.50	93.05	-1,231.26	361.31	433.81	393.92	39.89	10.876		
7,600.00	7,141.90	7,544.54	7,150.15	24.51	21.42	91.34	-1,237.48	276.27	435.67	395.35	40.32	10.805		
7,700.00	7,162.39	7,633.44	7,164.88	24.43	21.33	90.33	-1,241.41	188.76	436.33	395.38	40.94	10.657		
7,800.00	7,168.02	7,725.38	7,168.06	24.34	21.22	90.00	-1,243.15	96.94	435.65	393.89	41.76	10.433		
7,900.00	7,168.16	7,825.37	7,168.24	24.28	21.13	90.01	-1,244.41	-3.05	434.22	391.39	42.82	10.140		
8,000.00	7,168.30	7,925.36	7,168.42	24.29	21.31	90.01	-1,245.68	-103.03	432.79	388.67	44.12	9.810		
8,100.00	7,168.44	8,025.35	7,168.59	24.47	22.12	90.02	-1,246.94	-203.01	431.36	385.73	45.63	9.454		
8,200.00	7,168.58	8,125.34	7,168.77	24.93	23.05	90.02	-1,248.21	-302.99	429.93	382.60	47.32	9.085		
8,300.00	7,168.72	8,225.33	7,168.95	25.68	24.05	90.03	-1,249.47	-402.97	428.49	379.30	49.19	8.710		
8,400.00	7,168.87	8,325.32	7,169.13	26.59	25.12	90.03	-1,250.74	-502.95	427.06	375.85	51.21	8.339		
8,500.00	7,169.01	8,425.31	7,169.31	27.61	26.25	90.04	-1,252.00	-602.94	425.63	372.26	53.37	7.975		
8,600.00	7,169.15	8,525.30	7,169.49	28.71	27.43	90.05	-1,253.27	-702.92	424.20	368.56	55.64	7.624		
8,700.00	7,169.29	8,625.29	7,169.67	29.86	28.65	90.05	-1,254.53	-802.90	422.77	364.75	58.02	7.286		
8,800.00	7,169.43	8,725.28	7,169.85	31.06	29.92	90.06	-1,255.80	-902.88	421.34	360.85	60.49	6.965		
8,900.00	7,169.57	8,825.27	7,170.03	32.30	31.22	90.06	-1,257.06	-1,002.86	419.91	356.86	63.04	6.660		
9,000.00	7,169.71	8,925.26	7,170.21	33.58	32.55	90.07	-1,258.32	-1,102.84	418.48	352.81	65.67	6.373		
9,100.00	7,169.86	9,025.25	7,170.39	34.89	33.91	90.07	-1,259.59	-1,202.82	417.05	348.69	68.35	6.101		
9,200.00	7,170.00	9,125.24	7,170.57	36.23	35.30	90.08	-1,260.85	-1,302.81	415.61	344.52	71.10	5.846		
9,300.00	7,170.14	9,225.23	7,170.74	37.60	36.71	90.08	-1,262.12	-1,402.79	414.18	340.29	73.89	5.605		
9,400.00	7,170.28	9,325.22	7,170.92	38.99	38.14	90.09	-1,263.38	-1,502.77	412.75	336.02	76.73	5.379		
9,500.00	7,170.42	9,425.21	7,171.10	40.40	39.58	90.09	-1,264.65	-1,602.75	411.32	331.72	79.60	5.167		
9,600.00	7,170.56	9,525.20	7,171.28	41.82	41.05	90.10	-1,265.91	-1,702.73	409.89	327.37	82.52	4.967		
9,700.00	7,170.70	9,625.19	7,171.46	43.27	42.53	90.11	-1,267.18	-1,802.71	408.46	323.00	85.46	4.780		
9,800.00	7,170.84	9,725.18	7,171.64	44.73	44.02	90.11	-1,268.44	-1,902.70	407.03	318.60	88.43	4.603		
9,900.00	7,170.99	9,825.17	7,171.82	46.20	45.52	90.12	-1,269.70	-2,002.68	405.60	314.17	91.43	4.436		
10,000.00	7,171.13	9,925.16	7,172.00	47.69	47.04	90.12	-1,270.97	-2,102.66	404.16	309.71	94.45	4.279		
10,100.00	7,171.27	10,025.15	7,172.18	49.19	48.56	90.13	-1,272.23	-2,202.64	402.73	305.24	97.49	4.131		
10,200.00	7,171.41	10,125.14	7,172.36	50.70	50.09	90.13	-1,273.50	-2,302.62	401.30	300.75	100.55	3.991		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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
10,300.00	7,171.55	10,225.13	7,172.54	52.22	51.63	90.14	-1,274.76	-2,402.60	399.87	296.24	103.63	3.859	
10,400.00	7,171.69	10,325.12	7,172.72	53.74	53.18	90.15	-1,276.03	-2,502.59	398.44	291.71	106.73	3.733	
10,500.00	7,171.83	10,425.11	7,172.90	55.28	54.74	90.15	-1,277.29	-2,602.57	397.01	287.17	109.84	3.615	
10,600.00	7,171.97	10,525.10	7,173.07	56.82	56.30	90.16	-1,278.56	-2,702.55	395.58	282.62	112.96	3.502	
10,700.00	7,172.12	10,625.09	7,173.25	58.37	57.87	90.16	-1,279.82	-2,802.53	394.15	278.05	116.10	3.395	
10,800.00	7,172.26	10,722.18	7,173.43	59.93	59.40	90.17	-1,280.97	-2,899.62	392.80	273.70	119.10	3.298	
10,822.64	7,172.29	10,742.09	7,173.46	60.28	59.71	90.17	-1,281.01	-2,919.53	392.73	273.04	119.68	3.281	
10,900.00	7,172.40	10,815.56	7,173.60	61.49	60.87	90.18	-1,280.30	-2,992.99	393.33	271.41	121.92	3.226	
11,000.00	7,172.54	10,915.55	7,173.78	63.05	62.45	90.18	-1,279.14	-3,092.98	394.32	269.24	125.09	3.152	
11,100.00	7,172.68	11,015.55	7,173.96	64.63	64.04	90.19	-1,277.98	-3,192.97	395.32	267.05	128.26	3.082	
11,200.00	7,172.82	11,115.54	7,174.13	66.20	65.63	90.19	-1,276.82	-3,292.95	396.31	264.86	131.45	3.015	
11,300.00	7,172.96	11,215.54	7,174.31	67.78	67.22	90.20	-1,275.66	-3,392.94	397.30	262.66	134.64	2.951	
11,400.00	7,173.11	11,315.53	7,174.49	69.37	68.82	90.20	-1,274.50	-3,492.93	398.29	260.45	137.84	2.890	
11,500.00	7,173.25	11,415.53	7,174.67	70.96	70.42	90.21	-1,273.35	-3,592.92	399.28	258.24	141.04	2.831	
11,600.00	7,173.39	11,515.52	7,174.85	72.55	72.02	90.21	-1,272.19	-3,692.91	400.28	256.02	144.26	2.775	
11,700.00	7,173.53	11,615.52	7,175.03	74.15	73.63	90.22	-1,271.03	-3,792.89	401.27	253.79	147.48	2.721	
11,800.00	7,173.67	11,715.51	7,175.21	75.75	75.24	90.22	-1,269.87	-3,892.88	402.26	251.56	150.70	2.669	
11,900.00	7,173.81	11,815.51	7,175.39	77.35	76.85	90.23	-1,268.71	-3,992.87	403.25	249.32	153.93	2.620	
12,000.00	7,173.95	11,915.50	7,175.57	78.96	78.47	90.23	-1,267.55	-4,092.86	404.24	247.08	157.16	2.572	
12,100.00	7,174.09	12,015.50	7,175.75	80.56	80.09	90.24	-1,266.40	-4,192.85	405.24	244.84	160.40	2.526	
12,200.00	7,174.24	12,115.49	7,175.93	82.18	81.70	90.24	-1,265.24	-4,292.84	406.23	242.58	163.64	2.482	
12,300.00	7,174.38	12,215.49	7,176.11	83.79	83.33	90.24	-1,264.08	-4,392.82	407.22	240.33	166.89	2.440	
12,400.00	7,174.52	12,315.48	7,176.29	85.40	84.95	90.25	-1,262.92	-4,492.81	408.21	238.07	170.14	2.399	
12,500.00	7,174.66	12,415.48	7,176.47	87.02	86.58	90.25	-1,261.76	-4,592.80	409.20	235.81	173.40	2.360	
12,600.00	7,174.80	12,515.47	7,176.65	88.64	88.20	90.26	-1,260.60	-4,692.79	410.20	233.54	176.65	2.322	
12,700.00	7,174.94	12,615.47	7,176.83	90.26	89.83	90.26	-1,259.45	-4,792.78	411.19	231.27	179.92	2.285	
12,800.00	7,175.08	12,715.46	7,177.01	91.88	91.46	90.27	-1,258.29	-4,892.76	412.18	229.00	183.18	2.250	
12,900.00	7,175.23	12,815.46	7,177.19	93.51	93.09	90.27	-1,257.13	-4,992.75	413.17	226.73	186.45	2.216	
13,000.00	7,175.37	12,915.45	7,177.37	95.13	94.73	90.28	-1,255.97	-5,092.74	414.16	224.45	189.72	2.183	
13,100.00	7,175.51	13,015.45	7,177.55	96.76	96.36	90.28	-1,254.81	-5,192.73	415.16	222.17	192.99	2.151	
13,200.00	7,175.65	13,115.44	7,177.73	98.39	98.00	90.29	-1,253.65	-5,292.72	416.15	219.89	196.26	2.120	
13,300.00	7,175.79	13,215.44	7,177.91	100.02	99.63	90.29	-1,252.49	-5,392.71	417.14	217.60	199.54	2.091	
13,400.00	7,175.93	13,315.43	7,178.09	101.65	101.27	90.30	-1,251.34	-5,492.69	418.13	215.31	202.82	2.062	
13,500.00	7,176.07	13,415.43	7,178.27	103.29	102.91	90.30	-1,250.18	-5,592.68	419.13	213.03	206.10	2.034	
13,600.00	7,176.21	13,515.42	7,178.45	104.92	104.55	90.31	-1,249.02	-5,692.67	420.12	210.73	209.38	2.006	
13,700.00	7,176.36	13,615.42	7,178.63	106.55	106.19	90.31	-1,247.86	-5,792.66	421.11	208.44	212.67	1.980	
13,800.00	7,176.50	13,715.41	7,178.81	108.19	107.84	90.31	-1,246.70	-5,892.65	422.10	206.15	215.96	1.955	
13,900.00	7,176.64	13,815.41	7,178.99	109.83	109.48	90.32	-1,245.54	-5,992.63	423.09	203.85	219.24	1.930	
14,000.00	7,176.78	13,915.40	7,179.17	111.47	111.12	90.32	-1,244.39	-6,092.62	424.09	201.55	222.54	1.906	
14,100.00	7,176.92	14,015.40	7,179.35	113.11	112.77	90.33	-1,243.23	-6,192.61	425.08	199.25	225.83	1.882	
14,200.00	7,177.06	14,115.39	7,179.53	114.75	114.41	90.33	-1,242.07	-6,292.60	426.07	196.95	229.12	1.860	
14,300.00	7,177.20	14,215.39	7,179.71	116.39	116.06	90.34	-1,240.91	-6,392.59	427.06	194.65	232.42	1.837	
14,400.00	7,177.35	14,315.38	7,179.88	118.03	117.71	90.34	-1,239.75	-6,492.58	428.05	192.34	235.71	1.816	
14,500.00	7,177.49	14,415.38	7,180.06	119.67	119.35	90.35	-1,238.59	-6,592.56	429.05	190.04	239.01	1.795	
14,600.00	7,177.63	14,515.37	7,180.24	121.32	121.00	90.35	-1,237.44	-6,692.55	430.04	187.73	242.31	1.775	
14,700.00	7,177.77	14,615.37	7,180.42	122.96	122.65	90.35	-1,236.28	-6,792.54	431.03	185.42	245.61	1.755	
14,800.00	7,177.91	14,715.36	7,180.60	124.61	124.30	90.36	-1,235.12	-6,892.53	432.02	183.11	248.91	1.736	
14,900.00	7,178.05	14,815.36	7,180.78	126.25	125.95	90.36	-1,233.96	-6,992.52	433.01	180.80	252.21	1.717	
15,000.00	7,178.19	14,915.35	7,180.96	127.90	127.60	90.37	-1,232.80	-7,092.51	434.01	178.49	255.52	1.699	
15,100.00	7,178.33	15,015.35	7,181.14	129.55	129.26	90.37	-1,231.64	-7,192.49	435.00	176.18	258.82	1.681	
15,200.00	7,178.48	15,115.34	7,181.32	131.19	130.91	90.37	-1,230.49	-7,292.48	435.99	173.86	262.13	1.663	
15,300.00	7,178.62	15,215.34	7,181.50	132.84	132.56	90.38	-1,229.33	-7,392.47	436.98	171.55	265.44	1.646	

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design	5N-66W-29 SANFORD 21-29 PAD - SANFORD 5N-30B-M - Wellbore #1 - Design #1											Offset Site Error:	0.00 usft
Survey Program:	0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA											Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,400.00	7,178.76	15,315.33	7,181.68	134.49	134.21	90.38	-1,228.17	-7,492.46	437.97	169.23	268.74	1.630	
15,500.00	7,178.90	15,415.33	7,181.86	136.14	135.87	90.39	-1,227.01	-7,592.45	438.97	166.92	272.05	1.614	
15,571.56	7,179.00	15,486.88	7,181.99	137.39	137.05	90.39	-1,226.18	-7,663.99	439.68	165.27	274.41	1.602 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-0.40	80.14	-0.56	80.14					
100.00	100.00	100.00	100.00	3.28	3.28	-0.40	80.14	-0.56	80.14	72.61	7.53	10.645		
200.00	200.00	200.00	200.00	3.31	3.31	-0.40	80.14	-0.56	80.14	72.57	7.57	10.581		
300.00	300.00	302.04	302.02	3.35	3.35	-153.14	78.83	0.70	79.25	71.59	7.66	10.351		
400.00	399.93	404.01	403.83	3.40	3.41	-151.55	74.90	4.47	78.56	70.79	7.77	10.116		
452.64	452.47	457.64	457.29	3.44	3.45	-150.44	71.78	7.46	78.46	70.62	7.84	10.003 CC, ES		
500.00	499.68	505.87	505.29	3.49	3.50	-149.29	68.37	10.73	78.54	70.62	7.92	9.915		
600.00	599.13	607.62	606.24	3.59	3.62	-146.41	59.25	19.48	79.31	71.18	8.13	9.755		
700.00	698.15	709.23	706.55	3.73	3.78	-143.03	47.56	30.69	80.96	72.56	8.40	9.638		
800.00	796.63	809.14	804.87	3.91	3.98	-140.26	34.73	42.99	84.53	75.78	8.75	9.661		
900.00	894.44	908.92	903.06	4.14	4.20	-139.17	21.92	55.28	90.88	81.73	9.16	9.927		
1,000.00	991.46	1,008.51	1,001.05	4.42	4.45	-139.50	9.13	67.54	99.88	90.27	9.61	10.393		
1,100.00	1,087.69	1,107.82	1,098.78	4.75	4.72	-140.84	-3.63	79.78	111.28	101.18	10.11	11.010		
1,200.00	1,183.78	1,207.08	1,196.46	5.12	5.01	-142.15	-16.38	92.00	123.14	112.50	10.63	11.581		
1,300.00	1,279.86	1,306.34	1,294.13	5.51	5.31	-143.22	-29.13	104.23	135.04	123.85	11.19	12.071		
1,400.00	1,375.95	1,405.60	1,391.81	5.93	5.62	-144.12	-41.87	116.45	146.99	135.22	11.77	12.493		
1,500.00	1,472.04	1,504.86	1,489.48	6.36	5.95	-144.88	-54.62	128.68	158.96	146.60	12.36	12.857		
1,600.00	1,568.13	1,604.12	1,587.16	6.81	6.28	-145.54	-67.37	140.90	170.96	157.98	12.98	13.172		
1,700.00	1,664.21	1,703.38	1,684.83	7.27	6.62	-146.11	-80.12	153.13	182.98	169.37	13.61	13.446		
1,800.00	1,760.30	1,802.64	1,782.51	7.74	6.96	-146.61	-92.87	165.35	195.01	180.77	14.25	13.689		
1,900.00	1,856.39	1,901.90	1,880.19	8.01	7.15	-147.05	-105.62	177.58	207.06	192.85	14.21	14.572		
2,000.00	1,952.48	2,001.16	1,977.86	8.07	7.19	-147.45	-118.36	189.80	219.12	204.86	14.26	15.365		
2,100.00	2,048.56	2,100.42	2,075.54	8.17	7.25	-147.80	-131.11	202.03	231.18	216.83	14.35	16.110		
2,200.00	2,144.65	2,199.68	2,173.21	8.28	7.32	-148.12	-143.86	214.25	243.26	228.78	14.48	16.804		
2,300.00	2,240.74	2,301.06	2,270.89	8.42	7.42	-148.40	-156.61	226.48	255.34	240.70	14.64	17.442		
2,400.00	2,336.83	2,398.20	2,368.56	8.58	7.52	-148.66	-169.36	238.70	267.43	252.59	14.83	18.029		
2,500.00	2,432.91	2,502.55	2,466.24	8.75	7.65	-148.90	-182.10	250.93	279.52	264.45	15.07	18.553		
2,600.00	2,529.00	2,603.29	2,563.91	8.95	7.79	-149.12	-194.85	263.15	291.61	276.29	15.33	19.027		
2,700.00	2,625.09	2,704.03	2,661.59	9.16	7.94	-149.32	-207.60	275.38	303.71	288.10	15.62	19.449		
2,800.00	2,721.18	2,804.77	2,759.27	9.39	8.10	-149.51	-220.35	287.60	315.82	299.88	15.93	19.821		
2,900.00	2,817.26	2,894.49	2,856.94	9.63	8.26	-149.68	-233.10	299.83	327.92	311.67	16.26	20.169		
3,000.00	2,913.35	3,006.25	2,954.62	9.89	8.47	-149.84	-245.85	312.05	340.03	323.39	16.64	20.430		
3,100.00	3,009.44	3,106.99	3,052.29	10.15	8.66	-149.99	-258.59	324.28	352.14	335.11	17.03	20.674		
3,200.00	3,105.53	3,207.73	3,149.97	10.43	8.87	-150.13	-271.34	336.50	364.26	346.82	17.44	20.882		
3,300.00	3,201.61	3,308.47	3,247.64	10.73	9.09	-150.26	-284.09	348.73	376.37	358.50	17.87	21.058		
3,400.00	3,297.70	3,409.21	3,345.32	11.03	9.32	-150.38	-296.84	360.95	388.49	370.17	18.32	21.205		
3,500.00	3,393.79	3,509.95	3,443.00	11.34	9.55	-150.50	-309.59	373.18	400.61	381.83	18.79	21.326		
3,600.00	3,489.88	3,589.31	3,540.67	11.66	9.74	-150.61	-322.33	385.40	412.73	393.52	19.22	21.477		
3,700.00	3,585.96	3,688.57	3,638.35	11.98	9.98	-150.71	-335.08	397.63	424.85	405.15	19.71	21.560		
3,800.00	3,682.05	3,787.83	3,736.02	12.32	10.23	-150.80	-347.83	409.85	436.98	416.77	20.21	21.624		
3,900.00	3,778.14	3,887.09	3,833.70	12.66	10.49	-150.89	-360.58	422.08	449.10	428.38	20.72	21.673		
4,000.00	3,874.23	3,986.35	3,931.37	13.00	10.75	-150.98	-373.33	434.30	461.23	439.98	21.25	21.709		
4,100.00	3,970.32	4,085.61	4,029.05	13.35	11.01	-151.06	-386.08	446.53	473.36	451.57	21.78	21.732		
4,200.00	4,066.40	4,184.87	4,126.73	13.71	11.28	-151.14	-398.82	458.75	485.48	463.16	22.33	21.745		
4,300.00	4,162.49	4,284.13	4,224.40	14.07	11.56	-151.21	-411.57	470.98	497.61	474.73	22.88	21.749		
4,400.00	4,258.58	4,383.39	4,322.08	14.44	11.84	-151.28	-424.32	483.20	509.74	486.30	23.44	21.746		
4,500.00	4,354.67	4,482.65	4,419.75	14.81	12.12	-151.35	-437.07	495.43	521.87	497.86	24.01	21.735		
4,600.00	4,450.75	4,581.91	4,517.43	15.18	12.41	-151.42	-449.82	507.65	534.00	509.41	24.59	21.719		
4,700.00	4,546.84	4,681.17	4,615.10	15.56	12.70	-151.48	-462.56	519.88	546.13	520.96	25.17	21.699		
4,800.00	4,642.93	4,780.43	4,712.78	15.94	12.99	-151.54	-475.31	532.10	558.26	532.51	25.76	21.674		
4,900.00	4,739.02	4,879.69	4,810.46	16.32	13.28	-151.59	-488.06	544.33	570.40	544.04	26.35	21.645		
5,000.00	4,835.10	4,978.95	4,908.13	16.71	13.58	-151.64	-500.81	556.55	582.53	555.58	26.95	21.614		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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		
5,100.00	4,931.19	5,078.21	5,005.81	17.10	13.88	-151.70	-513.56	568.78	594.66	567.11	27.56	21.580		
5,200.00	5,027.28	5,177.47	5,103.48	17.49	14.19	-151.75	-526.31	581.00	606.80	578.63	28.17	21.544		
5,300.00	5,123.37	5,276.73	5,201.16	17.88	14.49	-151.79	-539.05	593.23	618.93	590.15	28.78	21.506		
5,400.00	5,219.45	5,375.99	5,298.83	18.28	14.80	-151.84	-551.80	605.45	631.06	601.67	29.40	21.467		
5,500.00	5,315.54	5,475.25	5,396.51	18.67	15.11	-151.88	-564.55	617.68	643.20	613.18	30.02	21.427		
5,600.00	5,411.63	5,574.51	5,494.19	19.07	15.42	-151.93	-577.30	629.90	655.33	624.69	30.64	21.386		
5,700.00	5,507.72	5,673.77	5,591.86	19.47	15.73	-151.97	-590.05	642.13	667.47	636.20	31.27	21.345		
5,800.00	5,603.80	5,773.03	5,689.54	19.88	16.05	-152.01	-602.79	654.35	679.61	647.70	31.90	21.303		
5,900.00	5,699.89	5,872.29	5,787.21	20.28	16.36	-152.04	-615.54	666.58	691.74	659.21	32.54	21.261		
6,000.00	5,795.98	5,971.55	5,884.89	20.69	16.68	-152.08	-628.29	678.80	703.88	670.71	33.17	21.218		
6,100.00	5,892.07	6,070.81	5,982.56	21.09	17.00	-152.12	-641.04	691.03	716.02	682.20	33.81	21.176		
6,200.00	5,988.15	6,170.07	6,080.24	21.50	17.32	-152.15	-653.79	703.25	728.15	693.70	34.45	21.134		
6,300.00	6,084.24	6,269.33	6,177.92	21.91	17.64	-152.18	-666.54	715.48	740.29	705.19	35.10	21.092		
6,400.00	6,180.33	6,368.59	6,275.59	22.32	17.96	-152.22	-679.28	727.70	752.43	716.68	35.75	21.050		
6,500.00	6,276.42	6,467.85	6,373.27	22.74	18.28	-152.25	-692.03	739.93	764.57	728.17	36.39	21.008		
6,600.00	6,372.51	6,567.11	6,470.94	23.15	18.61	-152.28	-704.78	752.16	776.70	739.66	37.04	20.967		
6,700.00	6,468.59	6,667.29	6,569.66	23.56	18.90	-152.40	-717.66	763.15	788.82	751.15	37.66	20.943		
6,800.00	6,565.18	6,767.82	6,669.23	23.88	19.08	-175.37	-730.63	761.10	800.93	762.84	38.08	21.031		
6,900.00	6,661.43	6,867.16	6,766.09	24.11	19.22	143.97	-743.21	743.57	813.07	774.70	38.37	21.190		
7,000.00	6,754.97	6,965.41	6,858.10	24.30	19.30	125.06	-755.12	711.52	824.94	786.38	38.56	21.396		
7,100.00	6,843.50	7,062.71	6,943.32	24.44	19.35	114.15	-766.13	666.10	836.23	797.56	38.67	21.626		
7,200.00	6,924.84	7,159.16	7,020.07	24.53	19.36	107.31	-776.00	608.67	846.65	807.90	38.75	21.851		
7,300.00	6,996.99	7,254.89	7,086.88	24.58	19.35	102.71	-784.56	540.78	855.93	817.09	38.84	22.036		
7,400.00	7,058.17	7,350.01	7,142.54	24.59	19.32	99.48	-791.65	464.07	863.84	824.82	39.01	22.142		
7,500.00	7,106.87	7,444.63	7,186.06	24.57	19.27	97.23	-797.14	380.34	870.16	830.84	39.32	22.131		
7,600.00	7,141.90	7,538.83	7,216.70	24.51	19.23	95.72	-800.95	291.43	874.73	834.94	39.80	21.979		
7,700.00	7,162.39	7,632.71	7,233.97	24.43	19.20	94.85	-803.00	199.26	877.45	836.97	40.47	21.680		
7,800.00	7,168.02	7,727.79	7,237.98	24.34	19.25	94.57	-803.32	104.33	878.23	836.89	41.34	21.242		
7,900.00	7,168.16	7,827.79	7,237.89	24.28	19.59	94.55	-803.10	4.33	878.27	835.81	42.46	20.686		
8,000.00	7,168.30	7,927.79	7,237.80	24.29	20.26	94.54	-802.88	-95.67	878.31	834.51	43.80	20.054		
8,100.00	7,168.44	8,027.79	7,237.71	24.47	21.08	94.52	-802.66	-195.67	878.35	833.00	45.35	19.370		
8,200.00	7,168.58	8,127.79	7,237.62	24.93	22.01	94.51	-802.44	-295.67	878.38	831.30	47.08	18.657		
8,300.00	7,168.72	8,227.79	7,237.53	25.68	23.03	94.49	-802.21	-395.67	878.42	829.44	48.99	17.932		
8,400.00	7,168.87	8,327.79	7,237.44	26.59	24.11	94.48	-801.99	-495.67	878.46	827.42	51.04	17.212		
8,500.00	7,169.01	8,427.79	7,237.35	27.61	25.26	94.46	-801.77	-595.67	878.50	825.28	53.22	16.507		
8,600.00	7,169.15	8,527.79	7,237.26	28.71	26.47	94.45	-801.55	-695.67	878.53	823.01	55.52	15.824		
8,700.00	7,169.29	8,627.79	7,237.17	29.86	27.72	94.43	-801.32	-795.67	878.57	820.65	57.92	15.169		
8,800.00	7,169.43	8,727.79	7,237.08	31.06	29.01	94.42	-801.10	-895.67	878.61	818.20	60.41	14.545		
8,900.00	7,169.57	8,827.79	7,236.99	32.30	30.34	94.40	-800.88	-995.67	878.65	815.67	62.98	13.952		
9,000.00	7,169.71	8,927.79	7,236.90	33.58	31.70	94.39	-800.66	-1,095.67	878.68	813.07	65.61	13.392		
9,100.00	7,169.86	9,027.79	7,236.81	34.89	33.08	94.37	-800.44	-1,195.66	878.72	810.41	68.31	12.863		
9,200.00	7,170.00	9,127.79	7,236.72	36.23	34.49	94.35	-800.21	-1,295.66	878.76	807.69	71.07	12.366		
9,300.00	7,170.14	9,227.79	7,236.63	37.60	35.93	94.34	-799.99	-1,395.66	878.80	804.93	73.87	11.897		
9,400.00	7,170.28	9,327.79	7,236.54	38.99	37.38	94.32	-799.77	-1,495.66	878.84	802.12	76.71	11.457		
9,500.00	7,170.42	9,427.79	7,236.45	40.40	38.85	94.31	-799.55	-1,595.66	878.87	799.28	79.59	11.042		
9,600.00	7,170.56	9,527.79	7,236.36	41.82	40.33	94.29	-799.32	-1,695.66	878.91	796.40	82.51	10.652		
9,700.00	7,170.70	9,627.79	7,236.27	43.27	41.83	94.28	-799.10	-1,795.66	878.95	793.49	85.46	10.285		
9,800.00	7,170.84	9,727.79	7,236.18	44.73	43.34	94.26	-798.88	-1,895.66	878.99	790.56	88.43	9.940		
9,900.00	7,170.99	9,827.79	7,236.09	46.20	44.86	94.25	-798.66	-1,995.66	879.03	787.59	91.43	9.614		
10,000.00	7,171.13	9,927.79	7,236.00	47.69	46.40	94.23	-798.44	-2,095.66	879.06	784.61	94.45	9.307		
10,100.00	7,171.27	10,027.79	7,235.91	49.19	47.94	94.22	-798.21	-2,195.66	879.10	781.61	97.50	9.017		
10,200.00	7,171.41	10,127.79	7,235.82	50.70	49.49	94.20	-797.99	-2,295.66	879.14	778.58	100.56	8.743		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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		
10,300.00	7,171.55	10,227.79	7,235.73	52.22	51.04	94.19	-797.77	-2,395.66	879.18	775.54	103.64	8.483		
10,400.00	7,171.69	10,327.79	7,235.64	53.74	52.61	94.17	-797.55	-2,495.66	879.22	772.49	106.73	8.238		
10,500.00	7,171.83	10,427.79	7,235.55	55.28	54.18	94.16	-797.32	-2,595.66	879.26	769.42	109.84	8.005		
10,600.00	7,171.97	10,527.79	7,235.46	56.82	55.75	94.14	-797.10	-2,695.66	879.30	766.33	112.96	7.784		
10,700.00	7,172.12	10,627.79	7,235.37	58.37	57.34	94.13	-796.88	-2,795.66	879.33	763.24	116.10	7.574		
10,800.00	7,172.26	10,727.78	7,235.28	59.93	58.92	94.11	-796.66	-2,895.66	879.37	760.13	119.24	7.375		
10,900.00	7,172.40	10,827.78	7,235.19	61.49	60.51	94.09	-796.44	-2,995.65	879.41	757.02	122.39	7.185		
11,000.00	7,172.54	10,927.78	7,235.10	63.05	62.11	94.08	-796.21	-3,095.65	879.45	753.89	125.56	7.004		
11,100.00	7,172.68	11,027.78	7,235.01	64.63	63.71	94.06	-795.99	-3,195.65	879.49	750.76	128.73	6.832		
11,200.00	7,172.82	11,127.78	7,234.93	66.20	65.31	94.05	-795.77	-3,295.65	879.53	747.62	131.91	6.668		
11,300.00	7,172.96	11,227.78	7,234.84	67.78	66.92	94.03	-795.55	-3,395.65	879.57	744.47	135.10	6.510		
11,400.00	7,173.11	11,327.78	7,234.75	69.37	68.52	94.02	-795.32	-3,495.65	879.61	741.31	138.30	6.360		
11,500.00	7,173.25	11,427.78	7,234.66	70.96	70.14	94.00	-795.10	-3,595.65	879.65	738.15	141.50	6.217		
11,600.00	7,173.39	11,527.78	7,234.57	72.55	71.75	93.99	-794.88	-3,695.65	879.69	734.98	144.71	6.079		
11,700.00	7,173.53	11,627.78	7,234.48	74.15	73.37	93.97	-794.66	-3,795.65	879.73	731.81	147.92	5.947		
11,800.00	7,173.67	11,727.78	7,234.39	75.75	74.99	93.96	-794.44	-3,895.65	879.77	728.63	151.14	5.821		
11,900.00	7,173.81	11,827.78	7,234.30	77.35	76.61	93.94	-794.21	-3,995.65	879.81	725.44	154.37	5.700		
12,000.00	7,173.95	11,927.78	7,234.21	78.96	78.23	93.93	-793.99	-4,095.65	879.85	722.25	157.59	5.583		
12,100.00	7,174.09	12,027.78	7,234.12	80.56	79.86	93.91	-793.77	-4,195.65	879.88	719.06	160.83	5.471		
12,200.00	7,174.24	12,127.78	7,234.03	82.18	81.49	93.90	-793.55	-4,295.65	879.92	715.86	164.07	5.363		
12,300.00	7,174.38	12,227.78	7,233.94	83.79	83.12	93.88	-793.32	-4,395.65	879.96	712.66	167.31	5.260		
12,400.00	7,174.52	12,327.78	7,233.85	85.40	84.75	93.87	-793.10	-4,495.65	880.00	709.45	170.55	5.160		
12,500.00	7,174.66	12,427.78	7,233.76	87.02	86.38	93.85	-792.88	-4,595.65	880.04	706.24	173.80	5.063		
12,600.00	7,174.80	12,527.78	7,233.67	88.64	88.01	93.84	-792.66	-4,695.65	880.08	703.03	177.05	4.971		
12,700.00	7,174.94	12,627.78	7,233.58	90.26	89.65	93.82	-792.44	-4,795.64	880.12	699.81	180.31	4.881		
12,800.00	7,175.08	12,727.78	7,233.49	91.88	91.29	93.80	-792.21	-4,895.64	880.16	696.60	183.57	4.795		
12,900.00	7,175.23	12,827.78	7,233.40	93.51	92.92	93.79	-791.99	-4,995.64	880.20	693.37	186.83	4.711		
13,000.00	7,175.37	12,927.78	7,233.31	95.13	94.56	93.77	-791.77	-5,095.64	880.24	690.15	190.09	4.631		
13,100.00	7,175.51	13,027.78	7,233.22	96.76	96.20	93.76	-791.55	-5,195.64	880.29	686.92	193.36	4.553		
13,200.00	7,175.65	13,127.78	7,233.13	98.39	97.84	93.74	-791.32	-5,295.64	880.33	683.69	196.63	4.477		
13,300.00	7,175.79	13,227.78	7,233.04	100.02	99.49	93.73	-791.10	-5,395.64	880.37	680.46	199.90	4.404		
13,400.00	7,175.93	13,327.78	7,232.95	101.65	101.13	93.71	-790.88	-5,495.64	880.41	677.23	203.18	4.333		
13,500.00	7,176.07	13,427.78	7,232.86	103.29	102.77	93.70	-790.66	-5,595.64	880.45	674.00	206.45	4.265		
13,600.00	7,176.21	13,527.78	7,232.77	104.92	104.42	93.68	-790.44	-5,695.64	880.49	670.76	209.73	4.198		
13,700.00	7,176.36	13,627.78	7,232.68	106.55	106.06	93.67	-790.21	-5,795.64	880.53	667.52	213.01	4.134		
13,800.00	7,176.50	13,727.78	7,232.59	108.19	107.71	93.65	-789.99	-5,895.64	880.57	664.28	216.29	4.071		
13,900.00	7,176.64	13,827.78	7,232.50	109.83	109.36	93.64	-789.77	-5,995.64	880.61	661.03	219.58	4.011		
14,000.00	7,176.78	13,927.78	7,232.41	111.47	111.01	93.62	-789.55	-6,095.64	880.65	657.79	222.86	3.952		
14,100.00	7,176.92	14,027.78	7,232.32	113.11	112.66	93.61	-789.32	-6,195.64	880.69	654.54	226.15	3.894		
14,200.00	7,177.06	14,127.78	7,232.23	114.75	114.30	93.59	-789.10	-6,295.64	880.73	651.30	229.44	3.839		
14,300.00	7,177.20	14,227.78	7,232.14	116.39	115.96	93.58	-788.88	-6,395.64	880.77	648.05	232.73	3.785		
14,400.00	7,177.35	14,327.77	7,232.05	118.03	117.61	93.56	-788.66	-6,495.63	880.82	644.80	236.02	3.732		
14,500.00	7,177.49	14,427.77	7,231.96	119.67	119.26	93.55	-788.44	-6,595.63	880.86	641.55	239.31	3.681		
14,600.00	7,177.63	14,527.77	7,231.87	121.32	120.91	93.53	-788.21	-6,695.63	880.90	638.29	242.60	3.631		
14,700.00	7,177.77	14,627.77	7,231.79	122.96	122.56	93.52	-787.99	-6,795.63	880.94	635.04	245.90	3.583		
14,800.00	7,177.91	14,727.77	7,231.70	124.61	124.21	93.50	-787.77	-6,895.63	880.98	631.79	249.20	3.535		
14,900.00	7,178.05	14,827.77	7,231.61	126.25	125.87	93.48	-787.55	-6,995.63	881.02	628.53	252.49	3.489		
15,000.00	7,178.19	14,927.77	7,231.52	127.90	127.52	93.47	-787.32	-7,095.63	881.06	625.27	255.79	3.444		
15,100.00	7,178.33	15,027.77	7,231.43	129.55	129.18	93.45	-787.10	-7,195.63	881.10	622.01	259.09	3.401		
15,200.00	7,178.48	15,127.77	7,231.34	131.19	130.83	93.44	-786.88	-7,295.63	881.15	618.75	262.39	3.358		
15,300.00	7,178.62	15,227.77	7,231.25	132.84	132.49	93.42	-786.66	-7,395.63	881.19	615.49	265.69	3.317		
15,400.00	7,178.76	15,327.77	7,231.16	134.49	134.14	93.41	-786.44	-7,495.63	881.23	612.23	269.00	3.276		

Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
15,500.00	7,178.90	15,427.77	7,231.07	136.14	135.80	93.39	-786.21	-7,595.63	881.27	608.97	272.30	3.236	
15,571.56	7,179.00	15,499.33	7,231.00	137.39	136.98	93.38	-786.05	-7,667.18	881.30	606.64	274.66	3.209 SF	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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	-62.28	79.05	-150.45	169.95				
100.00	100.00	101.00	101.00	3.28	3.28	-62.28	79.05	-150.45	169.95	162.42	7.53	22.573	
200.00	200.00	201.02	201.02	3.31	3.31	-62.28	79.05	-150.45	169.95	162.38	7.57	22.438	
299.97	299.97	303.39	303.37	3.35	3.35	143.82	77.19	-150.59	169.94	162.28	7.66	22.197	
300.00	300.00	303.41	303.38	3.35	3.35	143.73	77.19	-150.59	169.59	161.93	7.66	22.151 CC, ES	
400.00	399.93	405.68	405.50	3.40	3.41	142.72	71.69	-151.00	170.32	162.56	7.77	21.925	
500.00	499.68	507.79	507.20	3.49	3.50	141.31	62.58	-151.69	172.58	164.65	7.93	21.759	
600.00	599.13	608.72	607.38	3.59	3.61	139.68	50.41	-152.60	176.56	168.40	8.15	21.658 SF	
700.00	698.15	708.46	706.33	3.73	3.76	138.69	37.89	-153.54	183.12	174.69	8.43	21.724	
800.00	796.63	808.02	805.11	3.91	3.92	138.42	25.40	-154.48	192.32	183.55	8.76	21.951	
900.00	894.44	907.30	903.60	4.14	4.11	138.79	12.94	-155.42	204.12	194.97	9.15	22.318	
1,000.00	991.46	1,006.17	1,001.68	4.42	4.32	139.67	0.53	-156.35	218.57	208.99	9.58	22.815	
1,100.00	1,087.69	1,104.57	1,099.30	4.75	4.54	140.97	-11.82	-157.28	235.48	225.42	10.06	23.409	
1,200.00	1,183.78	1,202.89	1,196.83	5.12	4.78	142.27	-24.16	-158.21	252.91	242.34	10.56	23.940	
1,300.00	1,279.86	1,301.21	1,294.37	5.51	5.03	143.41	-36.50	-159.14	270.44	259.35	11.10	24.374	
1,400.00	1,375.95	1,400.47	1,391.91	5.93	5.29	144.40	-48.84	-160.07	288.07	276.42	11.65	24.723	
1,500.00	1,472.04	1,502.15	1,489.44	6.36	5.56	145.28	-61.18	-160.99	305.77	293.54	12.23	24.994	
1,600.00	1,568.13	1,603.84	1,586.98	6.81	5.84	146.07	-73.51	-161.92	323.54	310.71	12.83	25.215	
1,700.00	1,664.21	1,705.52	1,684.51	7.27	6.13	146.77	-85.85	-162.85	341.36	327.91	13.44	25.394	
1,800.00	1,760.30	1,807.20	1,782.05	7.74	6.42	147.41	-98.19	-163.78	359.22	345.16	14.06	25.557	
1,900.00	1,856.39	1,908.88	1,879.59	8.01	6.56	147.98	-110.53	-164.71	377.12	363.12	14.00	26.932	
2,000.00	1,952.48	1,989.43	1,977.12	8.07	6.59	148.50	-122.87	-165.63	395.05	381.01	14.04	28.129	
2,100.00	2,048.56	2,087.75	2,074.66	8.17	6.63	148.98	-135.21	-166.56	413.02	398.89	14.13	29.239	
2,200.00	2,144.65	2,186.07	2,172.19	8.28	6.69	149.41	-147.55	-167.49	431.01	416.77	14.24	30.263	
2,300.00	2,240.74	2,284.39	2,269.73	8.42	6.76	149.82	-159.89	-168.42	449.02	434.63	14.39	31.197	
2,400.00	2,336.83	2,382.71	2,367.27	8.58	6.84	150.19	-172.22	-169.34	467.05	452.47	14.58	32.040	
2,500.00	2,432.91	2,481.02	2,464.80	8.75	6.94	150.53	-184.56	-170.27	485.10	470.31	14.79	32.794	
2,600.00	2,529.00	2,579.34	2,562.34	8.95	7.05	150.85	-196.90	-171.20	503.16	488.12	15.04	33.460	
2,700.00	2,625.09	2,677.66	2,659.87	9.16	7.18	151.14	-209.24	-172.13	521.24	505.93	15.31	34.043	
2,800.00	2,721.18	2,775.98	2,757.41	9.39	7.31	151.42	-221.58	-173.06	539.33	523.72	15.61	34.547	
2,900.00	2,817.26	2,874.29	2,854.95	9.63	7.46	151.68	-233.92	-173.98	557.43	541.50	15.94	34.978	
3,000.00	2,913.35	2,972.61	2,952.48	9.89	7.61	151.92	-246.26	-174.91	575.55	559.26	16.29	35.341	
3,100.00	3,009.44	3,070.93	3,050.02	10.15	7.78	152.15	-258.60	-175.84	593.67	577.01	16.66	35.643	
3,200.00	3,105.53	3,169.25	3,147.56	10.43	7.95	152.36	-270.93	-176.77	611.80	594.75	17.05	35.889	
3,300.00	3,201.61	3,267.57	3,245.09	10.73	8.13	152.57	-283.27	-177.70	629.94	612.48	17.46	36.086	
3,400.00	3,297.70	3,365.88	3,342.63	11.03	8.33	152.76	-295.61	-178.62	648.08	630.20	17.88	36.239	
3,500.00	3,393.79	3,464.20	3,440.16	11.34	8.52	152.94	-307.95	-179.55	666.23	647.91	18.33	36.353	
3,600.00	3,489.88	3,562.52	3,537.70	11.66	8.73	153.11	-320.29	-180.48	684.39	665.60	18.79	36.432	
3,700.00	3,585.96	3,660.84	3,635.24	11.98	8.94	153.27	-332.63	-181.41	702.55	683.30	19.26	36.482	
3,800.00	3,682.05	3,759.15	3,732.77	12.32	9.16	153.42	-344.97	-182.33	720.72	700.98	19.74	36.506	
3,900.00	3,778.14	3,857.47	3,830.31	12.66	9.38	153.57	-357.30	-183.26	738.89	718.66	20.24	36.508	
4,000.00	3,874.23	3,955.79	3,927.84	13.00	9.61	153.71	-369.64	-184.19	757.07	736.33	20.75	36.491	
4,100.00	3,970.32	4,054.11	4,025.38	13.35	9.84	153.84	-381.98	-185.12	775.25	753.99	21.26	36.457	
4,200.00	4,066.40	4,152.43	4,122.92	13.71	10.08	153.97	-394.32	-186.05	793.44	771.65	21.79	36.410	
4,300.00	4,162.49	4,250.74	4,220.45	14.07	10.32	154.09	-406.66	-186.97	811.63	789.30	22.33	36.350	
4,400.00	4,258.58	4,349.06	4,317.99	14.44	10.56	154.20	-419.00	-187.90	829.82	806.95	22.87	36.281	
4,500.00	4,354.67	4,447.38	4,415.52	14.81	10.81	154.31	-431.34	-188.83	848.02	824.59	23.42	36.204	
4,600.00	4,450.75	4,545.70	4,513.06	15.18	11.07	154.42	-443.68	-189.76	866.22	842.23	23.98	36.119	
4,700.00	4,546.84	4,644.01	4,610.60	15.56	11.32	154.52	-456.01	-190.68	884.42	859.87	24.55	36.030	
4,800.00	4,642.93	4,742.33	4,708.13	15.94	11.58	154.62	-468.35	-191.61	902.62	877.50	25.12	35.935	
4,900.00	4,739.02	4,840.65	4,805.67	16.32	11.84	154.71	-480.69	-192.54	920.83	895.13	25.69	35.837	
5,000.00	4,835.10	4,938.97	4,903.20	16.71	12.10	154.80	-493.03	-193.47	939.04	912.76	26.28	35.737	

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Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design											5N-66W-29 SANFORD 21-29 PAD - SANFORD 8C-27-XR - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:		3.28 usft
Reference		Offset		Semi Major Axis		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.00	4,931.19	5,037.29	5,000.74	17.10	12.37	154.89	-505.37	-194.40	957.25	930.38	26.86	35.634			
5,200.00	5,027.28	5,135.60	5,098.28	17.49	12.64	154.97	-517.71	-195.32	975.46	948.00	27.45	35.530			
5,300.00	5,123.37	5,233.92	5,195.81	17.88	12.91	155.05	-530.05	-196.25	993.67	965.62	28.05	35.425			
5,400.00	5,219.45	5,332.24	5,293.35	18.28	13.18	155.13	-542.39	-197.18	1,011.89	983.24	28.65	35.319			
5,500.00	5,315.54	5,430.56	5,390.88	18.67	13.45	155.20	-554.72	-198.11	1,030.11	1,000.86	29.25	35.214			
5,600.00	5,411.63	5,528.88	5,488.42	19.07	13.73	155.27	-567.06	-199.04	1,048.33	1,018.47	29.86	35.108			
5,700.00	5,507.72	5,627.19	5,585.96	19.47	14.01	155.34	-579.40	-199.96	1,066.55	1,036.08	30.47	35.003			
5,800.00	5,603.80	5,725.51	5,683.49	19.88	14.29	155.41	-591.74	-200.89	1,084.77	1,053.69	31.08	34.899			
5,900.00	5,699.89	5,823.83	5,781.03	20.28	14.57	155.48	-604.08	-201.82	1,103.00	1,071.30	31.70	34.795			
6,000.00	5,795.98	5,922.15	5,878.56	20.69	14.85	155.54	-616.42	-202.75	1,121.22	1,088.90	32.32	34.693			
6,100.00	5,892.07	6,020.46	5,976.10	21.09	15.13	155.60	-628.76	-203.67	1,139.45	1,106.51	32.94	34.591			
6,200.00	5,988.15	6,118.78	6,073.64	21.50	15.42	155.66	-641.10	-204.60	1,157.68	1,124.11	33.56	34.491			
6,300.00	6,084.24	6,217.10	6,171.17	21.91	15.70	155.72	-653.43	-205.53	1,175.91	1,141.71	34.19	34.392			
6,400.00	6,180.33	6,315.42	6,268.71	22.32	15.99	155.77	-665.77	-206.46	1,194.14	1,159.32	34.82	34.295			
6,700.00	6,468.59	8,076.60	7,357.41	23.56	22.65	-160.81	-779.53	728.43	1,143.43	1,105.58	37.85	30.208			
6,800.00	6,565.18	8,081.65	7,357.42	23.88	22.70	174.56	-779.40	733.47	1,087.19	1,048.13	39.05	27.839			
6,900.00	6,661.43	8,071.07	7,357.41	24.11	22.60	149.32	-779.67	722.90	1,037.34	997.25	40.09	25.877			
7,000.00	6,754.97	8,045.08	7,357.37	24.30	22.34	134.55	-780.32	696.92	995.67	954.79	40.88	24.354			
7,100.00	6,843.50	8,004.33	7,357.32	24.44	21.93	125.93	-781.35	656.18	963.11	921.74	41.37	23.282			
7,200.00	6,924.84	7,949.82	7,357.24	24.53	21.44	119.80	-782.72	601.69	939.60	898.06	41.54	22.619			
7,300.00	6,996.99	7,882.89	7,357.15	24.58	20.86	114.72	-784.40	534.78	924.14	882.73	41.40	22.320			
7,400.00	7,058.17	7,805.20	7,357.04	24.59	20.26	110.30	-786.36	457.11	914.99	873.93	41.06	22.285			
7,500.00	7,106.87	7,703.45	7,352.93	24.57	19.64	105.97	-788.42	355.54	909.61	869.15	40.46	22.481			
7,600.00	7,141.90	7,601.34	7,333.44	24.51	19.20	102.03	-788.50	255.41	905.33	865.35	39.98	22.642			
7,700.00	7,162.39	7,508.36	7,302.10	24.43	18.94	98.72	-786.76	167.99	902.15	862.41	39.73	22.705			
7,800.00	7,168.02	7,422.36	7,262.16	24.34	18.76	95.94	-783.64	91.96	900.02	860.36	39.66	22.696			
7,836.48	7,168.07	7,393.28	7,246.40	24.30	18.70	94.93	-782.27	67.56	899.77	860.09	39.68	22.678			
7,900.00	7,168.16	7,346.70	7,218.90	24.28	18.61	93.17	-779.75	30.06	900.65	860.93	39.71	22.678			
8,000.00	7,168.30	7,283.03	7,177.08	24.29	18.48	90.50	-775.68	-17.74	906.31	866.43	39.88	22.728			
8,100.00	7,168.44	7,229.71	7,138.56	24.47	18.38	88.06	-771.75	-54.37	918.28	878.17	40.11	22.895			
8,200.00	7,168.58	7,185.00	7,104.02	24.93	18.28	85.90	-768.10	-82.51	937.36	896.96	40.40	23.202			
8,300.00	7,168.72	7,150.00	7,075.67	25.68	18.21	84.15	-765.03	-102.80	963.91	923.17	40.74	23.660			
8,400.00	7,168.87	7,115.34	7,046.55	26.59	18.14	82.37	-761.83	-121.31	997.85	956.79	41.06	24.303			
8,500.00	7,169.01	7,087.99	7,022.90	27.61	18.08	80.95	-759.18	-134.78	1,038.89	997.49	41.40	25.096			
8,600.00	7,169.15	7,064.42	7,002.06	28.71	18.02	79.71	-756.82	-145.56	1,086.49	1,044.77	41.72	26.043			
8,700.00	7,169.29	7,050.00	6,989.14	29.86	17.99	78.95	-755.35	-151.77	1,140.08	1,098.02	42.06	27.108			
8,800.00	7,169.43	7,026.01	6,967.33	31.06	17.94	77.68	-752.84	-161.44	1,198.90	1,156.62	42.29	28.351			

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-68.55	59.01	-150.17	161.35					
100.00	100.00	101.00	101.00	3.28	3.28	-68.55	59.01	-150.17	161.35	153.82	7.53	21.430		
200.00	200.00	201.02	201.02	3.31	3.31	-68.55	59.01	-150.17	161.35	153.77	7.57	21.302		
288.90	288.89	291.46	291.44	3.34	3.34	137.62	57.55	-150.26	161.42	153.78	7.65	21.115		
300.00	300.00	302.74	302.71	3.35	3.35	137.43	57.17	-150.29	161.13	153.47	7.66	21.046	CC, ES	
400.00	399.93	404.35	404.18	3.40	3.41	136.43	51.74	-150.64	162.13	154.36	7.77	20.869		
500.00	499.68	505.81	505.23	3.49	3.50	135.08	42.73	-151.21	164.73	156.79	7.93	20.766		
600.00	599.13	607.07	605.70	3.59	3.61	133.43	30.19	-152.01	168.99	160.83	8.15	20.724		
700.00	698.15	707.35	704.79	3.73	3.76	131.74	14.85	-152.99	175.08	166.64	8.44	20.739		
800.00	796.63	806.96	803.18	3.91	3.94	130.87	-0.72	-153.98	183.51	174.72	8.79	20.869		
900.00	894.44	906.38	901.37	4.14	4.15	130.82	-16.26	-154.97	194.23	185.02	9.20	21.101		
1,000.00	991.46	1,005.48	999.25	4.42	4.38	131.46	-31.75	-155.96	207.23	197.56	9.67	21.423		
1,100.00	1,087.69	1,104.20	1,096.75	4.75	4.62	132.67	-47.18	-156.95	222.36	212.17	10.19	21.815		
1,200.00	1,183.78	1,202.86	1,194.19	5.12	4.88	133.93	-62.60	-157.93	237.95	227.20	10.75	22.144		
1,300.00	1,279.86	1,301.51	1,291.62	5.51	5.16	135.03	-78.01	-158.91	253.63	242.30	11.33	22.389		
1,400.00	1,375.95	1,400.16	1,389.06	5.93	5.44	136.00	-93.43	-159.90	269.39	257.45	11.94	22.571		
1,500.00	1,472.04	1,501.18	1,486.49	6.36	5.74	136.86	-108.85	-160.88	285.22	272.65	12.57	22.691		
1,600.00	1,568.13	1,602.53	1,583.93	6.81	6.05	137.64	-124.27	-161.86	301.10	287.88	13.22	22.773		
1,700.00	1,664.21	1,703.88	1,681.37	7.27	6.37	138.33	-139.69	-162.85	317.04	303.15	13.89	22.828		
1,800.00	1,760.30	1,805.23	1,778.80	7.74	6.68	138.96	-155.11	-163.83	333.01	318.45	14.56	22.873		
1,900.00	1,856.39	1,906.57	1,876.24	8.01	6.85	139.53	-170.52	-164.81	349.02	334.48	14.54	24.005		
2,000.00	1,952.48	2,007.92	1,973.67	8.07	6.89	140.06	-185.94	-165.80	365.06	350.46	14.60	25.001		
2,100.00	2,048.56	2,109.27	2,071.11	8.17	6.95	140.53	-201.36	-166.78	381.13	366.43	14.70	25.921		
2,200.00	2,144.65	2,189.39	2,168.54	8.28	7.00	140.97	-216.78	-167.77	397.22	382.40	14.83	26.791		
2,300.00	2,240.74	2,288.04	2,265.98	8.42	7.08	141.38	-232.20	-168.75	413.34	398.34	15.00	27.562		
2,400.00	2,336.83	2,386.69	2,363.41	8.58	7.18	141.75	-247.62	-169.73	429.47	414.27	15.20	28.254		
2,500.00	2,432.91	2,485.34	2,460.85	8.75	7.29	142.10	-263.03	-170.72	445.62	430.18	15.44	28.867		
2,600.00	2,529.00	2,584.00	2,558.29	8.95	7.42	142.42	-278.45	-171.70	461.78	446.07	15.70	29.404		
2,700.00	2,625.09	2,682.65	2,655.72	9.16	7.55	142.72	-293.87	-172.68	477.96	461.95	16.00	29.869		
2,800.00	2,721.18	2,781.30	2,753.16	9.39	7.70	143.00	-309.29	-173.67	494.14	477.82	16.33	30.267		
2,900.00	2,817.26	2,879.96	2,850.59	9.63	7.86	143.27	-324.71	-174.65	510.34	493.67	16.68	30.603		
3,000.00	2,913.35	2,978.61	2,948.03	9.89	8.04	143.52	-340.13	-175.63	526.55	509.50	17.05	30.882		
3,100.00	3,009.44	3,077.26	3,045.46	10.15	8.22	143.75	-355.55	-176.62	542.77	525.32	17.45	31.109		
3,200.00	3,105.53	3,175.91	3,142.90	10.43	8.41	143.97	-370.96	-177.60	559.00	541.13	17.86	31.291		
3,300.00	3,201.61	3,274.57	3,240.33	10.73	8.61	144.17	-386.38	-178.59	575.23	556.93	18.30	31.431		
3,400.00	3,297.70	3,373.22	3,337.77	11.03	8.82	144.37	-401.80	-179.57	591.47	572.72	18.76	31.535		
3,500.00	3,393.79	3,471.87	3,435.21	11.34	9.03	144.56	-417.22	-180.55	607.72	588.49	19.23	31.608		
3,600.00	3,489.88	3,570.53	3,532.64	11.66	9.26	144.73	-432.64	-181.54	623.97	604.26	19.71	31.652		
3,700.00	3,585.96	3,669.18	3,630.08	11.98	9.49	144.90	-448.06	-182.52	640.23	620.02	20.21	31.673		
3,800.00	3,682.05	3,767.83	3,727.51	12.32	9.72	145.06	-463.47	-183.50	656.49	635.77	20.73	31.673		
3,900.00	3,778.14	3,866.48	3,824.95	12.66	9.96	145.21	-478.89	-184.49	672.76	651.51	21.25	31.656		
4,000.00	3,874.23	3,965.14	3,922.38	13.00	10.21	145.35	-494.31	-185.47	689.04	667.25	21.79	31.623		
4,100.00	3,970.32	4,063.79	4,019.82	13.35	10.46	145.49	-509.73	-186.45	705.31	682.98	22.34	31.577		
4,200.00	4,066.40	4,162.44	4,117.25	13.71	10.72	145.62	-525.15	-187.44	721.59	698.70	22.89	31.521		
4,300.00	4,162.49	4,261.09	4,214.69	14.07	10.98	145.74	-540.57	-188.42	737.88	714.42	23.46	31.456		
4,400.00	4,258.58	4,359.75	4,312.12	14.44	11.24	145.86	-555.98	-189.41	754.16	730.13	24.03	31.383		
4,500.00	4,354.67	4,458.40	4,409.56	14.81	11.51	145.98	-571.40	-190.39	770.45	745.84	24.61	31.304		
4,600.00	4,450.75	4,557.05	4,507.00	15.18	11.78	146.09	-586.82	-191.37	786.75	761.55	25.20	31.220		
4,700.00	4,546.84	4,655.71	4,604.43	15.56	12.06	146.19	-602.24	-192.36	803.04	777.25	25.79	31.132		
4,800.00	4,642.93	4,754.36	4,701.87	15.94	12.34	146.29	-617.66	-193.34	819.34	792.94	26.40	31.041		
4,900.00	4,739.02	4,853.01	4,799.30	16.32	12.62	146.39	-633.08	-194.32	835.64	808.64	27.00	30.947		
5,000.00	4,835.10	4,951.66	4,896.74	16.71	12.90	146.48	-648.49	-195.31	851.94	824.33	27.61	30.852		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27B-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,931.19	5,050.32	4,994.17	17.10	13.19	146.57	-663.91	-196.29	868.25	840.02	28.23	30.756		
5,200.00	5,027.28	5,148.97	5,091.61	17.49	13.48	146.66	-679.33	-197.28	884.55	855.70	28.85	30.659		
5,300.00	5,123.37	5,247.62	5,189.04	17.88	13.77	146.74	-694.75	-198.26	900.86	871.39	29.48	30.561		
5,400.00	5,219.45	5,346.28	5,286.48	18.28	14.06	146.82	-710.17	-199.24	917.17	887.07	30.11	30.464		
5,500.00	5,315.54	5,444.93	5,383.92	18.67	14.35	146.90	-725.59	-200.23	933.49	902.75	30.74	30.367		
5,600.00	5,411.63	5,543.58	5,481.35	19.07	14.65	146.98	-741.00	-201.21	949.80	918.42	31.38	30.270		
5,700.00	5,507.72	5,642.23	5,578.79	19.47	14.94	147.05	-756.42	-202.19	966.12	934.10	32.02	30.175		
5,800.00	5,603.80	5,740.89	5,676.22	19.88	15.24	147.12	-771.84	-203.18	982.43	949.77	32.66	30.080		
5,900.00	5,699.89	5,839.54	5,773.66	20.28	15.54	147.19	-787.26	-204.16	998.75	965.44	33.31	29.986		
6,000.00	5,795.98	5,938.19	5,871.09	20.69	15.85	147.25	-802.68	-205.14	1,015.07	981.11	33.96	29.893		
6,100.00	5,892.07	6,036.85	5,968.53	21.09	16.15	147.31	-818.10	-206.13	1,031.39	996.78	34.61	29.802		
6,200.00	5,988.15	6,135.50	6,065.96	21.50	16.45	147.38	-833.51	-207.11	1,047.71	1,012.45	35.26	29.712		
6,300.00	6,084.24	6,234.15	6,163.40	21.91	16.76	147.44	-848.93	-208.10	1,064.04	1,028.12	35.92	29.623		
6,400.00	6,180.33	7,887.32	7,159.69	22.32	22.94	-163.77	-1,003.50	706.99	1,065.49	1,032.05	33.44	31.866		
6,500.00	6,276.42	7,900.15	7,159.72	22.74	23.06	-162.71	-1,003.46	719.52	988.99	954.34	34.64	28.548		
6,600.00	6,372.51	7,912.38	7,159.75	23.15	23.18	-161.63	-1,003.43	732.05	916.85	880.85	36.01	25.464		
6,700.00	6,468.59	7,924.91	7,159.79	23.56	23.31	-160.56	-1,003.39	744.58	850.19	812.66	37.53	22.652		
6,800.00	6,565.18	7,930.62	7,159.80	23.88	23.37	175.59	-1,003.37	750.30	790.07	750.96	39.11	20.201		
6,900.00	6,661.43	7,920.70	7,159.78	24.11	23.27	150.37	-1,003.40	740.37	738.65	698.10	40.55	18.216		
7,000.00	6,754.97	7,904.65	7,159.71	24.30	23.11	134.84	-1,003.48	715.02	698.59	656.81	41.78	16.722		
7,100.00	6,843.50	7,855.20	7,159.61	24.44	22.63	124.78	-1,003.59	674.87	671.27	628.91	42.36	15.845		
7,200.00	6,924.84	7,801.23	7,159.47	24.53	22.14	116.69	-1,003.75	620.90	656.39	613.92	42.47	15.455 SF		
7,300.00	6,996.99	7,734.78	7,159.31	24.58	21.59	109.32	-1,003.95	554.45	651.94	609.85	42.09	15.490		
7,303.37	6,999.23	7,732.34	7,159.30	24.58	21.57	109.08	-1,003.95	552.01	651.94	609.87	42.07	15.497		
7,400.00	7,058.17	7,657.47	7,159.11	24.59	21.02	102.57	-1,004.17	477.15	654.72	613.36	41.37	15.827		
7,500.00	7,106.87	7,573.74	7,158.19	24.57	20.51	96.83	-1,004.31	393.43	661.21	620.64	40.57	16.298		
7,600.00	7,141.90	7,494.62	7,149.46	24.51	20.14	92.07	-1,003.19	314.85	669.45	629.50	39.95	16.759		
7,700.00	7,162.39	7,418.85	7,132.14	24.43	19.87	88.04	-1,000.70	241.17	678.67	639.16	39.50	17.181		
7,800.00	7,168.02	7,345.74	7,107.35	24.34	19.67	84.84	-997.00	172.54	688.13	648.89	39.24	17.537		
7,900.00	7,168.16	7,277.97	7,077.57	24.28	19.50	82.41	-992.49	111.87	700.79	661.66	39.13	17.910		
8,000.00	7,168.30	7,217.47	7,045.74	24.29	19.37	79.88	-987.63	60.67	719.38	680.25	39.13	18.385		
8,100.00	7,168.44	7,164.04	7,013.75	24.47	19.25	77.41	-982.71	18.19	744.70	705.46	39.24	18.979		
8,200.00	7,168.58	7,117.16	6,982.86	24.93	19.15	75.11	-977.94	-16.75	777.13	737.69	39.44	19.703		
8,300.00	7,168.72	7,076.10	6,953.79	25.68	19.06	73.01	-973.44	-45.39	816.68	776.96	39.72	20.561		
8,400.00	7,168.87	7,040.13	6,926.88	26.59	18.98	71.13	-969.26	-68.87	863.02	822.98	40.04	21.553		
8,500.00	7,169.01	7,000.00	6,895.36	27.61	18.89	69.01	-964.35	-93.21	915.71	875.40	40.30	22.720		
8,600.00	7,169.15	6,980.73	6,879.70	28.71	18.84	67.99	-961.91	-104.17	973.88	933.13	40.75	23.898		
8,700.00	7,169.29	6,950.00	6,854.07	29.86	18.77	66.37	-957.91	-120.64	1,037.15	996.12	41.03	25.275		
8,800.00	7,169.43	6,934.28	6,840.67	31.06	18.73	65.54	-955.82	-128.57	1,104.68	1,063.27	41.41	26.679		
8,900.00	7,169.57	6,914.79	6,823.79	32.30	18.69	64.52	-953.18	-137.95	1,176.01	1,134.32	41.70	28.203		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA													Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	1.00	1.00	3.28	3.28	-75.45	38.98	-150.17	155.15					
100.00	100.00	101.00	101.00	3.28	3.28	-75.45	38.98	-150.17	155.15	147.62	7.53	20.607		
200.00	200.00	201.01	201.01	3.31	3.31	-75.45	38.98	-150.17	155.15	147.57	7.57	20.484		
273.76	273.76	275.56	275.55	3.33	3.33	130.82	37.98	-150.23	155.26	147.63	7.63	20.347		
300.00	300.00	302.07	302.04	3.35	3.35	130.51	37.16	-150.27	155.08	147.43	7.66	20.257	CC, ES	
400.00	399.93	403.02	402.85	3.40	3.41	129.54	31.80	-150.56	156.36	148.59	7.77	20.128		
500.00	499.68	503.83	503.26	3.49	3.49	128.29	22.90	-151.04	159.31	151.38	7.93	20.084		
600.00	599.13	604.44	603.10	3.59	3.61	126.81	10.52	-151.71	163.97	155.81	8.16	20.106		
700.00	698.15	704.81	702.20	3.73	3.76	125.16	-5.32	-152.57	170.37	161.92	8.45	20.169		
800.00	796.63	804.56	800.24	3.91	3.95	123.69	-23.66	-153.56	178.61	169.80	8.81	20.268		
900.00	894.44	904.02	897.98	4.14	4.17	123.15	-42.10	-154.56	188.82	179.58	9.25	20.418		
1,000.00	991.46	1,003.26	995.50	4.42	4.42	123.46	-60.50	-155.56	200.94	191.19	9.75	20.611		
1,100.00	1,087.69	1,102.21	1,092.72	4.75	4.69	124.48	-78.84	-156.55	214.82	204.51	10.31	20.836		
1,200.00	1,183.78	1,201.10	1,189.89	5.12	4.97	125.59	-97.17	-157.55	229.06	218.15	10.91	20.994		
1,300.00	1,279.86	1,300.01	1,287.06	5.51	5.27	126.58	-115.51	-158.54	243.38	231.83	11.55	21.078		
1,400.00	1,375.95	1,401.13	1,384.23	5.93	5.59	127.45	-133.84	-159.53	257.76	245.54	12.22	21.099		
1,500.00	1,472.04	1,502.24	1,481.40	6.36	5.92	128.23	-152.17	-160.52	272.19	259.28	12.91	21.084		
1,600.00	1,568.13	1,603.35	1,578.56	6.81	6.26	128.94	-170.51	-161.52	286.67	273.04	13.62	21.045		
1,700.00	1,664.21	1,704.46	1,675.73	7.27	6.60	129.57	-188.84	-162.51	301.18	286.83	14.35	20.989		
1,800.00	1,760.30	1,805.57	1,772.90	7.74	6.95	130.15	-207.17	-163.50	315.73	300.65	15.08	20.936		
1,900.00	1,856.39	1,906.68	1,870.07	8.01	7.13	130.67	-225.51	-164.50	330.31	315.21	15.10	21.877		
2,000.00	1,952.48	2,007.80	1,967.24	8.07	7.18	131.16	-243.84	-165.49	344.91	329.73	15.18	22.722		
2,100.00	2,048.56	2,108.91	2,064.41	8.17	7.24	131.60	-262.17	-166.48	359.53	344.23	15.30	23.496		
2,200.00	2,144.65	2,189.98	2,161.58	8.28	7.31	132.01	-280.51	-167.48	374.18	358.73	15.45	24.226		
2,300.00	2,240.74	2,288.87	2,258.75	8.42	7.40	132.38	-298.84	-168.47	388.84	373.20	15.64	24.864		
2,400.00	2,336.83	2,387.76	2,356.92	8.58	7.51	132.73	-317.17	-169.46	403.51	387.65	15.87	25.430		
2,500.00	2,432.91	2,486.65	2,453.08	8.75	7.64	133.06	-335.51	-170.46	418.20	402.07	16.13	25.927		
2,600.00	2,529.00	2,585.53	2,550.25	8.95	7.77	133.36	-353.84	-171.45	432.90	416.48	16.42	26.357		
2,700.00	2,625.09	2,684.42	2,647.42	9.16	7.93	133.64	-372.17	-172.44	447.62	430.87	16.75	26.724		
2,800.00	2,721.18	2,783.31	2,744.59	9.39	8.09	133.91	-390.51	-173.43	462.34	445.24	17.10	27.033		
2,900.00	2,817.26	2,882.20	2,841.76	9.63	8.27	134.16	-408.84	-174.43	477.07	459.59	17.48	27.288		
3,000.00	2,913.35	2,981.09	2,938.93	9.89	8.46	134.39	-427.17	-175.42	491.81	473.92	17.89	27.495		
3,100.00	3,009.44	3,079.98	3,036.10	10.15	8.66	134.61	-445.51	-176.41	506.56	488.24	18.31	27.659		
3,200.00	3,105.53	3,178.86	3,133.27	10.43	8.87	134.82	-463.84	-177.41	521.31	502.55	18.76	27.784		
3,300.00	3,201.61	3,277.75	3,230.44	10.73	9.08	135.02	-482.18	-178.40	536.07	516.84	19.23	27.875		
3,400.00	3,297.70	3,376.64	3,327.61	11.03	9.31	135.20	-500.51	-179.39	550.84	531.12	19.72	27.936		
3,500.00	3,393.79	3,475.53	3,424.77	11.34	9.55	135.38	-518.84	-180.39	565.61	545.39	20.22	27.970		
3,600.00	3,489.88	3,574.42	3,521.94	11.66	9.79	135.55	-537.18	-181.38	580.39	559.65	20.74	27.983		
3,700.00	3,585.96	3,673.31	3,619.11	11.98	10.04	135.70	-555.51	-182.37	595.17	573.90	21.27	27.976		
3,800.00	3,682.05	3,772.19	3,716.28	12.32	10.29	135.86	-573.84	-183.36	609.96	588.14	21.82	27.953		
3,900.00	3,778.14	3,871.08	3,813.45	12.66	10.55	136.00	-592.18	-184.36	624.75	602.37	22.38	27.915		
4,000.00	3,874.23	3,969.97	3,910.62	13.00	10.82	136.14	-610.51	-185.35	639.54	616.59	22.95	27.866		
4,100.00	3,970.32	4,068.86	4,007.79	13.35	11.09	136.27	-628.84	-186.34	654.34	630.81	23.53	27.807		
4,200.00	4,066.40	4,167.75	4,104.96	13.71	11.37	136.39	-647.18	-187.34	669.14	645.02	24.12	27.740		
4,300.00	4,162.49	4,266.64	4,202.13	14.07	11.65	136.51	-665.51	-188.33	683.94	659.22	24.72	27.666		
4,400.00	4,258.58	4,365.52	4,299.29	14.44	11.93	136.63	-683.84	-189.32	698.75	673.42	25.33	27.587		
4,500.00	4,354.67	4,464.41	4,396.46	14.81	12.22	136.74	-702.18	-190.32	713.56	687.61	25.94	27.504		
4,600.00	4,450.75	4,563.30	4,493.63	15.18	12.51	136.84	-720.51	-191.31	728.37	701.80	26.57	27.417		
4,700.00	4,546.84	4,662.19	4,590.80	15.56	12.81	136.95	-738.84	-192.30	743.18	715.99	27.20	27.327		
4,800.00	4,642.93	4,761.08	4,687.97	15.94	13.11	137.04	-757.18	-193.29	758.00	730.17	27.83	27.235		
4,900.00	4,739.02	4,859.97	4,785.14	16.32	13.41	137.14	-775.51	-194.29	772.82	744.34	28.47	27.142		
5,000.00	4,835.10	4,958.85	4,882.31	16.71	13.71	137.23	-793.84	-195.28	787.63	758.52	29.12	27.049		

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-29 SANFORD 21-29 PAD - SANFORD 8N-27C-XR - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-SRC Energy_ISCWSA REV 2 MWD+IFR1, 1800-SRC Energy_ISCWSA REV 2 MWD+IFR1+MSA												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,100.00	4,931.19	5,057.74	4,979.48	17.10	14.02	137.31	-812.18	-196.27	802.46	772.69	29.77	26.955	
5,200.00	5,027.28	5,156.63	5,076.65	17.49	14.33	137.40	-830.51	-197.27	817.28	786.85	30.43	26.860	
5,300.00	5,123.37	5,255.52	5,173.82	17.88	14.64	137.48	-848.84	-198.26	832.10	801.02	31.09	26.767	
5,400.00	5,219.45	5,354.41	5,270.98	18.28	14.95	137.56	-867.18	-199.25	846.93	815.18	31.75	26.673	
5,500.00	5,315.54	5,453.30	5,368.15	18.67	15.27	137.63	-885.51	-200.25	861.76	829.34	32.42	26.581	
5,600.00	5,411.63	5,552.18	5,465.32	19.07	15.58	137.70	-903.84	-201.24	876.59	843.50	33.09	26.489	
5,700.00	5,507.72	5,651.07	5,562.49	19.47	15.90	137.77	-922.18	-202.23	891.42	857.65	33.77	26.398	
5,800.00	5,603.80	5,749.96	5,659.66	19.88	16.22	137.84	-940.51	-203.22	906.25	871.80	34.45	26.309	
5,900.00	5,699.89	5,848.85	5,756.83	20.28	16.54	137.91	-958.84	-204.22	921.08	885.96	35.13	26.220	
6,000.00	5,795.98	5,947.74	5,854.00	20.69	16.87	137.97	-977.18	-205.21	935.92	900.11	35.81	26.133	
6,100.00	5,892.07	6,046.63	5,951.17	21.09	17.19	138.03	-995.51	-206.20	950.75	914.25	36.50	26.048	
6,200.00	5,988.15	6,145.51	6,048.34	21.50	17.52	138.09	-1,013.84	-207.20	965.59	928.40	37.19	25.964	
6,300.00	6,084.24	6,244.40	6,145.50	21.91	17.84	138.15	-1,032.18	-208.19	980.43	942.55	37.88	25.881	
6,400.00	6,180.33	6,343.29	6,242.67	22.32	18.17	138.21	-1,050.51	-209.18	995.27	956.69	38.58	25.800	
6,500.00	6,276.42	6,441.10	6,341.76	22.74	18.50	138.27	-1,068.84	-210.17	1,010.10	970.83	39.27	25.719	
6,600.00	6,372.51	6,538.19	6,438.85	23.15	18.83	138.33	-1,087.18	-211.16	1,025.03	985.96	40.00	25.638	
6,700.00	6,468.59	6,635.28	6,534.94	23.56	19.16	138.39	-1,105.51	-212.15	1,040.00	1,001.10	40.75	25.557	
6,800.00	6,564.68	6,732.37	6,631.03	23.97	19.49	138.45	-1,123.84	-213.14	1,055.07	1,016.25	41.50	25.476	
6,900.00	6,660.77	6,829.46	6,727.12	24.38	19.82	138.51	-1,142.18	-214.13	1,070.14	1,031.40	42.25	25.395	
7,000.00	6,756.86	6,926.55	6,823.21	24.79	20.15	138.57	-1,160.51	-215.12	1,085.21	1,046.55	43.00	25.314	
7,100.00	6,852.95	7,023.64	6,919.30	25.20	20.48	138.63	-1,178.84	-216.11	1,100.28	1,061.70	43.75	25.233	
7,200.00	6,949.04	7,120.73	7,015.39	25.61	20.81	138.69	-1,197.18	-217.10	1,115.35	1,076.85	44.50	25.152	
7,300.00	7,045.13	7,217.82	7,111.48	26.02	21.14	138.75	-1,215.51	-218.09	1,130.42	1,092.00	45.25	25.071	
7,400.00	7,141.22	7,314.91	7,207.57	26.43	21.47	138.81	-1,233.84	-219.08	1,145.49	1,107.15	46.00	24.990	
7,500.00	7,237.31	7,412.00	7,303.66	26.84	21.80	138.87	-1,252.18	-220.07	1,160.56	1,122.30	46.75	24.909	
7,600.00	7,333.40	7,509.09	7,400.00	27.25	22.13	138.93	-1,270.51	-221.06	1,175.63	1,137.45	47.50	24.828	
7,700.00	7,429.49	7,606.18	7,496.09	27.66	22.46	138.99	-1,288.84	-222.05	1,190.70	1,152.60	48.25	24.747	
7,800.00	7,525.58	7,703.27	7,592.18	28.07	22.79	139.05	-1,307.18	-223.04	1,205.77	1,167.75	49.00	24.666	
7,900.00	7,621.67	7,800.36	7,688.27	28.48	23.12	139.11	-1,325.51	-224.03	1,220.84	1,182.90	49.75	24.585	
8,000.00	7,717.76	7,897.45	7,784.36	28.89	23.45	139.17	-1,343.84	-225.02	1,235.91	1,198.05	50.50	24.504	
8,100.00	7,813.85	7,994.54	7,880.45	29.30	23.78	139.23	-1,362.18	-226.01	1,250.98	1,213.20	51.25	24.423	
8,200.00	7,909.94	8,091.63	7,976.54	29.71	24.11	139.29	-1,380.51	-227.00	1,266.05	1,228.35	52.00	24.342	
8,300.00	8,006.03	8,188.72	8,072.63	30.12	24.44	139.35	-1,398.84	-228.00	1,281.12	1,243.50	52.75	24.261	
8,400.00	8,102.12	8,285.81	8,168.72	30.53	24.77	139.41	-1,417.18	-229.00	1,296.19	1,258.65	53.50	24.180	
8,500.00	8,198.21	8,382.90	8,264.81	30.94	25.10	139.47	-1,435.51	-230.00	1,311.26	1,273.80	54.25	24.099	
8,600.00	8,294.30	8,480.00	8,360.90	31.35	25.43	139.53	-1,453.84	-231.00	1,326.33	1,288.95	55.00	24.018	
8,700.00	8,390.39	8,577.09	8,457.00	31.76	25.76	139.59	-1,472.18	-232.00	1,341.40	1,304.10	55.75	23.937	
8,800.00	8,486.48	8,674.18	8,553.09	32.17	26.09	139.65	-1,490.51	-233.00	1,356.47	1,319.25	56.50	23.856	
8,900.00	8,582.57	8,771.27	8,649.18	32.58	26.42	139.71	-1,508.84	-234.00	1,371.54	1,334.40	57.25	23.775	
9,000.00	8,678.66	8,868.36	8,745.27	32.99	26.75	139.77	-1,527.18	-235.00	1,386.61	1,349.55	58.00	23.694	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - HOMYAK 2 - XOG SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,900.00	7,170.99	7,200.99	7,200.99	46.20	253.40	89.85	-1,126.95	-2,995.21	1,138.41	849.85	288.56	3.945	
10,000.00	7,171.13	7,201.13	7,201.13	47.69	253.40	89.87	-1,126.95	-2,995.21	1,051.79	761.48	290.31	3.623	
10,100.00	7,171.27	7,201.27	7,201.27	49.19	253.41	89.88	-1,126.95	-2,995.21	967.75	675.38	292.38	3.310	
10,200.00	7,171.41	7,201.41	7,201.41	50.70	253.41	89.90	-1,126.95	-2,995.21	887.04	592.23	294.80	3.009	
10,300.00	7,171.55	7,201.55	7,201.55	52.22	253.42	89.91	-1,126.95	-2,995.21	810.63	513.00	297.63	2.724	
10,400.00	7,171.69	7,201.69	7,201.69	53.74	253.42	89.93	-1,126.95	-2,995.21	739.87	439.02	300.85	2.459	
10,500.00	7,171.83	7,201.83	7,201.83	55.28	253.43	89.94	-1,126.95	-2,995.21	676.53	372.13	304.40	2.223	
10,600.00	7,171.97	7,201.97	7,201.97	56.82	253.43	89.96	-1,126.95	-2,995.21	622.88	314.82	308.06	2.022	
10,700.00	7,172.12	7,202.12	7,202.12	58.37	253.44	89.97	-1,126.95	-2,995.21	581.60	270.17	311.43	1.868	
10,800.00	7,172.26	7,202.26	7,202.26	59.93	253.44	89.99	-1,126.95	-2,995.21	555.47	241.55	313.92	1.769	
10,898.57	7,172.40	7,202.40	7,202.40	61.46	253.45	90.00	-1,126.95	-2,995.21	546.65	231.68	314.97	1.736 CC	
10,900.00	7,172.40	7,202.40	7,202.40	61.49	253.45	90.00	-1,126.95	-2,995.21	546.66	231.68	314.97	1.736 ES, SF	
11,000.00	7,172.54	7,202.54	7,202.54	63.05	253.45	90.02	-1,126.95	-2,995.21	555.98	241.66	314.33	1.769	
11,100.00	7,172.68	7,202.68	7,202.68	64.63	253.46	90.03	-1,126.95	-2,995.21	582.58	270.37	312.21	1.866	
11,200.00	7,172.82	7,202.82	7,202.82	66.20	253.46	90.04	-1,126.95	-2,995.21	624.25	315.08	309.17	2.019	
11,300.00	7,172.96	7,202.96	7,202.96	67.78	253.47	90.06	-1,126.95	-2,995.21	678.21	372.42	305.79	2.218	
11,400.00	7,173.11	7,203.11	7,203.11	69.37	253.47	90.07	-1,126.95	-2,995.21	741.79	439.32	302.47	2.452	
11,500.00	7,173.25	7,203.25	7,203.25	70.96	253.48	90.09	-1,126.95	-2,995.21	812.74	513.30	299.44	2.714	
11,600.00	7,173.39	7,203.39	7,203.39	72.55	253.48	90.10	-1,126.95	-2,995.21	889.28	592.52	296.77	2.997	
11,700.00	7,173.53	7,203.53	7,203.53	74.15	253.49	90.12	-1,126.95	-2,995.21	970.11	675.64	294.47	3.294	
11,800.00	7,173.67	7,203.67	7,203.67	75.75	253.49	90.13	-1,126.95	-2,995.21	1,054.23	761.71	292.52	3.604	
11,900.00	7,173.81	7,203.81	7,203.81	77.35	253.50	90.15	-1,126.95	-2,995.21	1,140.91	850.05	290.86	3.923	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design 5N-66W-30 Offsets Incomplete - LUNDVALL 3 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	7,176.78	7,231.78	7,231.78	111.47	254.49	89.86	-1,086.04	-7,071.47	1,134.78	812.00	322.78	3.516	
14,100.00	7,176.92	7,231.92	7,231.92	113.11	254.49	89.88	-1,086.04	-7,071.47	1,050.12	722.49	327.63	3.205	
14,200.00	7,177.06	7,232.06	7,232.06	114.75	254.50	89.89	-1,086.04	-7,071.47	968.38	635.22	333.16	2.907	
14,300.00	7,177.20	7,232.20	7,232.20	116.39	254.50	89.91	-1,086.04	-7,071.47	890.38	550.94	339.44	2.623	
14,400.00	7,177.35	7,232.35	7,232.35	118.03	254.51	89.92	-1,086.04	-7,071.47	817.19	470.71	346.48	2.359	
14,500.00	7,177.49	7,232.49	7,232.49	119.67	254.51	89.93	-1,086.04	-7,071.47	750.22	396.03	354.19	2.118	
14,600.00	7,177.63	7,232.63	7,232.63	121.32	254.52	89.95	-1,086.04	-7,071.47	691.26	329.00	362.26	1.908	
14,700.00	7,177.77	7,232.77	7,232.77	122.96	254.52	89.96	-1,086.04	-7,071.47	642.54	272.43	370.11	1.736	
14,800.00	7,177.91	7,232.91	7,232.91	124.61	254.53	89.98	-1,086.04	-7,071.47	606.53	229.73	376.80	1.610	
14,900.00	7,178.05	7,233.05	7,233.05	126.25	254.53	89.99	-1,086.04	-7,071.47	585.58	204.42	381.16	1.536	
14,974.90	7,178.16	7,233.16	7,233.16	127.49	254.54	90.00	-1,086.04	-7,071.47	580.77	198.45	382.32	1.519	CC, ES, SF
15,000.00	7,178.19	7,233.19	7,233.19	127.90	254.54	90.00	-1,086.04	-7,071.47	581.31	199.06	382.25	1.521	
15,100.00	7,178.33	7,233.33	7,233.33	129.55	254.54	90.02	-1,086.04	-7,071.47	594.09	214.25	379.84	1.564	
15,200.00	7,178.48	7,233.48	7,233.48	131.19	254.55	90.03	-1,086.04	-7,071.47	622.87	248.32	374.54	1.663	
15,300.00	7,178.62	7,233.62	7,233.62	132.84	254.55	90.05	-1,086.04	-7,071.47	665.57	298.11	367.46	1.811	
15,400.00	7,178.76	7,233.76	7,233.76	134.49	254.56	90.06	-1,086.04	-7,071.47	719.72	360.05	359.68	2.001	
15,500.00	7,178.90	7,233.90	7,233.90	136.14	254.56	90.07	-1,086.04	-7,071.47	782.96	430.98	351.98	2.224	
15,571.56	7,179.00	7,234.00	7,234.00	137.39	254.57	90.08	-1,086.04	-7,071.47	832.64	483.96	348.68	2.388	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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 30-11H6 - Noble SI Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
13,100.00	7,175.51	7,202.51	7,202.51	96.76	253.45	-89.93	-2,568.30	-5,927.24	1,157.38	831.79	325.59	3.555	
13,200.00	7,175.65	7,202.65	7,202.65	98.39	253.46	-89.94	-2,568.30	-5,927.24	1,097.21	766.12	331.09	3.314	
13,300.00	7,175.79	7,202.79	7,202.79	100.02	253.46	-89.95	-2,568.30	-5,927.24	1,043.19	706.35	336.83	3.097	
13,400.00	7,175.93	7,202.93	7,202.93	101.65	253.47	-89.96	-2,568.30	-5,927.24	996.29	653.63	342.66	2.908	
13,500.00	7,176.07	7,203.07	7,203.07	103.29	253.47	-89.97	-2,568.30	-5,927.24	957.58	609.24	348.34	2.749	
13,600.00	7,176.21	7,203.21	7,203.21	104.92	253.48	-89.98	-2,568.30	-5,927.24	928.07	574.47	353.60	2.625	
13,700.00	7,176.36	7,203.36	7,203.36	106.55	253.48	-89.99	-2,568.30	-5,927.24	908.67	550.55	358.12	2.537	
13,800.00	7,176.50	7,203.50	7,203.50	108.19	253.49	-90.00	-2,568.30	-5,927.24	900.02	538.40	361.62	2.489	
13,828.20	7,176.54	7,203.54	7,203.54	108.65	253.49	-90.00	-2,568.30	-5,927.24	899.58	537.19	362.39	2.482 CC, ES	
13,900.00	7,176.64	7,203.64	7,203.64	109.83	253.49	-90.01	-2,568.30	-5,927.24	902.44	538.54	363.90	2.480 SF	
14,000.00	7,176.78	7,203.78	7,203.78	111.47	253.50	-90.02	-2,568.30	-5,927.24	915.84	550.93	364.91	2.510	
14,100.00	7,176.92	7,203.92	7,203.92	113.11	253.50	-90.02	-2,568.30	-5,927.24	939.74	575.04	364.70	2.577	
14,200.00	7,177.06	7,204.06	7,204.06	114.75	253.51	-90.03	-2,568.30	-5,927.24	973.38	609.92	363.47	2.678	
14,300.00	7,177.20	7,204.20	7,204.20	116.39	253.51	-90.04	-2,568.30	-5,927.24	1,015.79	654.35	361.44	2.810	
14,400.00	7,177.35	7,204.35	7,204.35	118.03	253.52	-90.05	-2,568.30	-5,927.24	1,065.92	707.06	358.86	2.970	
14,500.00	7,177.49	7,204.49	7,204.49	119.67	253.52	-90.06	-2,568.30	-5,927.24	1,122.74	766.79	355.95	3.154	
14,600.00	7,177.63	7,204.63	7,204.63	121.32	253.53	-90.07	-2,568.30	-5,927.24	1,185.29	832.40	352.89	3.359	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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 - MOSSBERG PMJ 30-10 - 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	
11,400.00	7,173.11	7,206.89	7,193.11	69.37	253.61	-89.90	-2,394.11	-4,436.20	1,183.82	888.88	294.94	4.014	
11,500.00	7,173.25	7,206.75	7,193.25	70.96	253.60	-89.91	-2,394.11	-4,436.20	1,106.31	807.94	298.37	3.708	
11,600.00	7,173.39	7,206.61	7,193.39	72.55	253.60	-89.92	-2,394.11	-4,436.20	1,032.69	730.36	302.32	3.416	
11,700.00	7,173.53	7,206.47	7,193.53	74.15	253.59	-89.93	-2,394.11	-4,436.20	963.82	657.01	306.81	3.141	
11,800.00	7,173.67	7,206.33	7,193.67	75.75	253.59	-89.94	-2,394.11	-4,436.20	900.81	589.02	311.79	2.889	
11,900.00	7,173.81	7,206.19	7,193.81	77.35	253.58	-89.95	-2,394.11	-4,436.20	844.97	527.79	317.18	2.664	
12,000.00	7,173.95	7,206.05	7,193.95	78.96	253.58	-89.96	-2,394.11	-4,436.20	797.79	475.03	322.76	2.472	
12,100.00	7,174.09	7,205.91	7,194.09	80.56	253.57	-89.97	-2,394.11	-4,436.20	760.91	432.69	328.22	2.318	
12,200.00	7,174.24	7,205.76	7,194.24	82.18	253.57	-89.98	-2,394.11	-4,436.20	735.86	402.74	333.12	2.209	
12,300.00	7,174.38	7,205.62	7,194.38	83.79	253.56	-90.00	-2,394.11	-4,436.20	723.88	386.87	337.01	2.148	
12,337.46	7,174.43	7,205.57	7,194.43	84.39	253.56	-90.00	-2,394.11	-4,436.20	722.91	384.78	338.13	2.138 CC, ES	
12,400.00	7,174.52	7,205.48	7,194.52	85.40	253.56	-90.01	-2,394.11	-4,436.20	725.61	386.08	339.53	2.137 SF	
12,500.00	7,174.66	7,205.34	7,194.66	87.02	253.55	-90.02	-2,394.11	-4,436.20	740.96	400.39	340.57	2.176	
12,600.00	7,174.80	7,205.20	7,194.80	88.64	253.55	-90.03	-2,394.11	-4,436.20	769.11	428.88	340.23	2.261	
12,700.00	7,174.94	7,205.06	7,194.94	90.26	253.54	-90.04	-2,394.11	-4,436.20	808.73	469.93	338.80	2.387	
12,800.00	7,175.08	7,204.92	7,195.08	91.88	253.54	-90.05	-2,394.11	-4,436.20	858.22	521.59	336.64	2.549	
12,900.00	7,175.23	7,204.78	7,195.23	93.51	253.53	-90.06	-2,394.11	-4,436.20	916.00	581.94	334.06	2.742	
13,000.00	7,175.37	7,204.63	7,195.37	95.13	253.53	-90.07	-2,394.11	-4,436.20	980.59	649.28	331.32	2.960	
13,100.00	7,175.51	7,204.49	7,195.51	96.76	253.52	-90.09	-2,394.11	-4,436.20	1,050.75	722.17	328.58	3.198	
13,200.00	7,175.65	7,204.35	7,195.65	98.39	253.52	-90.10	-2,394.11	-4,436.20	1,125.42	799.48	325.94	3.453	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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 - MOSSBERG-PM J30-9 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
10,200.00	7,171.41	7,201.41	7,201.41	50.70	253.41	-89.92	-2,518.54	-3,101.26	1,165.30	875.72	289.58	4.024	
10,300.00	7,171.55	7,201.55	7,201.55	52.22	253.42	-89.93	-2,518.54	-3,101.26	1,098.84	806.45	292.39	3.758	
10,400.00	7,171.69	7,201.69	7,201.69	53.74	253.42	-89.94	-2,518.54	-3,101.26	1,037.78	742.21	295.57	3.511	
10,500.00	7,171.83	7,201.83	7,201.83	55.28	253.43	-89.95	-2,518.54	-3,101.26	983.12	684.05	299.08	3.287	
10,600.00	7,171.97	7,201.97	7,201.97	56.82	253.43	-89.96	-2,518.54	-3,101.26	935.99	633.17	302.81	3.091	
10,700.00	7,172.12	7,202.12	7,202.12	58.37	253.44	-89.97	-2,518.54	-3,101.26	897.56	590.92	306.64	2.927	
10,800.00	7,172.26	7,202.26	7,202.26	59.93	253.44	-89.98	-2,518.54	-3,101.26	868.99	558.64	310.36	2.800	
10,900.00	7,172.40	7,202.40	7,202.40	61.49	253.45	-89.99	-2,518.54	-3,101.26	851.28	537.55	313.73	2.713	
11,000.00	7,172.54	7,202.54	7,202.54	63.05	253.45	-90.00	-2,518.54	-3,101.26	845.12	528.56	316.56	2.670	
11,002.31	7,172.54	7,202.54	7,202.54	63.09	253.45	-90.00	-2,518.54	-3,101.26	845.11	528.50	316.61	2.669	CC, ES, SF
11,100.00	7,172.68	7,202.68	7,202.68	64.63	253.46	-90.01	-2,518.54	-3,101.26	850.74	532.08	318.66	2.670	
11,200.00	7,172.82	7,202.82	7,202.82	66.20	253.46	-90.02	-2,518.54	-3,101.26	867.93	547.96	319.97	2.713	
11,300.00	7,172.96	7,202.96	7,202.96	67.78	253.47	-90.03	-2,518.54	-3,101.26	896.01	575.48	320.53	2.795	
11,400.00	7,173.11	7,203.11	7,203.11	69.37	253.47	-90.04	-2,518.54	-3,101.26	934.01	613.57	320.44	2.915	
11,500.00	7,173.25	7,203.25	7,203.25	70.96	253.48	-90.05	-2,518.54	-3,101.26	980.77	660.93	319.84	3.066	
11,600.00	7,173.39	7,203.39	7,203.39	72.55	253.48	-90.06	-2,518.54	-3,101.26	1,035.11	716.21	318.90	3.246	
11,700.00	7,173.53	7,203.53	7,203.53	74.15	253.49	-90.07	-2,518.54	-3,101.26	1,095.90	778.17	317.73	3.449	
11,800.00	7,173.67	7,203.67	7,203.67	75.75	253.49	-90.08	-2,518.54	-3,101.26	1,162.12	845.68	316.44	3.672	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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 - RICKS-PM J30-12 - Noble PR Well - No Surveys												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,100.00	7,176.92	7,215.92	7,215.92	113.11	253.93	-89.90	-2,382.93	-7,088.56	1,142.22	820.39	321.83	3.549	
14,200.00	7,177.06	7,216.06	7,216.06	114.75	253.93	-89.91	-2,382.93	-7,088.56	1,066.16	738.39	327.77	3.253	
14,300.00	7,177.20	7,216.20	7,216.20	116.39	253.94	-89.92	-2,382.93	-7,088.56	994.35	659.95	334.40	2.974	
14,400.00	7,177.35	7,216.35	7,216.35	118.03	253.94	-89.93	-2,382.93	-7,088.56	927.77	586.10	341.68	2.715	
14,500.00	7,177.49	7,216.49	7,216.49	119.67	253.95	-89.94	-2,382.93	-7,088.56	867.64	518.15	349.49	2.483	
14,600.00	7,177.63	7,216.63	7,216.63	121.32	253.95	-89.96	-2,382.93	-7,088.56	815.37	457.78	357.59	2.280	
14,700.00	7,177.77	7,216.77	7,216.77	122.96	253.96	-89.97	-2,382.93	-7,088.56	772.57	407.03	365.54	2.114	
14,800.00	7,177.91	7,216.91	7,216.91	124.61	253.96	-89.98	-2,382.93	-7,088.56	740.88	368.13	372.75	1.988	
14,900.00	7,178.05	7,217.05	7,217.05	126.25	253.97	-89.99	-2,382.93	-7,088.56	721.76	343.23	378.53	1.907	
14,989.83	7,178.18	7,217.18	7,217.18	127.73	253.97	-90.00	-2,382.93	-7,088.56	716.15	334.15	382.00	1.875 CC	
15,000.00	7,178.19	7,217.19	7,217.19	127.90	253.97	-90.00	-2,382.93	-7,088.56	716.22	333.95	382.27	1.874 ES, SF	
15,100.00	7,178.33	7,217.33	7,217.33	129.55	253.98	-90.01	-2,382.93	-7,088.56	724.57	340.91	383.66	1.889	
15,200.00	7,178.48	7,217.48	7,217.48	131.19	253.98	-90.02	-2,382.93	-7,088.56	746.35	363.57	382.78	1.950	
15,300.00	7,178.62	7,217.62	7,217.62	132.84	253.99	-90.04	-2,382.93	-7,088.56	780.43	400.40	380.02	2.054	
15,400.00	7,178.76	7,217.76	7,217.76	134.49	253.99	-90.05	-2,382.93	-7,088.56	825.29	449.31	375.98	2.195	
15,500.00	7,178.90	7,217.90	7,217.90	136.14	254.00	-90.06	-2,382.93	-7,088.56	879.28	508.07	371.21	2.369	
15,571.56	7,179.00	7,218.00	7,218.00	137.39	254.00	-90.07	-2,382.93	-7,088.56	922.64	553.04	369.60	2.496	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-M	Survey Calculation Method:	Minimum Curvature
Well Error:	3.28 usft	Output errors are at	2.45 sigma
Reference Wellbore	Wellbore #1	Database:	EDM 5000.14 Single User Db
Reference Design:	Design #1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 100-SRC Energy_2" CONE_2.448, 608-SRC Energy_ISCWSA REV 2 MWD, 7534-SRC Energy_2" CONE_2.448												Offset Well Error:	3.28 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
12,500.00	7,174.66	7,444.56	7,249.75	87.02	41.81	91.14	-1,084.65	-5,617.43	1,176.47	1,089.75	86.72	13.567	
12,600.00	7,174.80	7,443.46	7,248.65	88.64	41.81	91.03	-1,084.64	-5,617.44	1,090.82	999.96	90.86	12.005	
12,700.00	7,174.94	7,442.36	7,247.55	90.26	41.81	90.93	-1,084.64	-5,617.46	1,007.83	912.17	95.65	10.536	
12,800.00	7,175.08	7,441.27	7,246.46	91.88	41.80	90.82	-1,084.64	-5,617.47	928.19	827.02	101.17	9.175	
12,900.00	7,175.23	7,440.19	7,245.38	93.51	41.80	90.71	-1,084.64	-5,617.48	852.85	745.39	107.46	7.937	
13,000.00	7,175.37	7,439.11	7,244.31	95.13	41.80	90.61	-1,084.64	-5,617.50	783.05	668.54	114.51	6.838	
13,100.00	7,175.51	7,438.04	7,243.23	96.76	41.80	90.50	-1,084.64	-5,617.51	720.40	598.26	122.14	5.898	
13,200.00	7,175.65	7,436.96	7,242.16	98.39	41.80	90.40	-1,084.64	-5,617.52	666.92	536.97	129.95	5.132	
13,300.00	7,175.79	7,435.89	7,241.08	100.02	41.80	90.29	-1,084.64	-5,617.54	624.97	487.80	137.17	4.556	
13,400.00	7,175.93	7,434.81	7,240.00	101.65	41.80	90.19	-1,084.64	-5,617.55	596.99	454.27	142.72	4.183	
13,500.00	7,176.07	7,434.27	7,238.93	103.29	41.80	90.08	-1,084.64	-5,617.56	584.98	439.48	145.49	4.021	
13,521.00	7,176.10	7,434.49	7,238.70	103.63	41.80	90.06	-1,084.64	-5,617.56	584.60	438.95	145.65	4.014	CC, ES, SF
13,600.00	7,176.21	7,435.34	7,237.85	104.92	41.80	89.98	-1,084.63	-5,617.57	589.91	445.04	144.87	4.072	
13,700.00	7,176.36	7,436.42	7,236.78	106.55	41.80	89.87	-1,084.63	-5,617.59	611.39	470.32	141.07	4.334	
13,800.00	7,176.50	7,437.49	7,235.70	108.19	41.80	89.76	-1,084.63	-5,617.60	647.76	512.76	135.00	4.798	
13,900.00	7,176.64	7,438.57	7,234.63	109.83	41.80	89.66	-1,084.63	-5,617.61	696.69	568.89	127.80	5.451	
14,000.00	7,176.78	7,439.65	7,233.55	111.47	41.80	89.55	-1,084.63	-5,617.63	755.76	635.37	120.39	6.278	
14,100.00	7,176.92	7,440.72	7,232.47	113.11	41.80	89.45	-1,084.63	-5,617.64	822.78	709.43	113.34	7.259	
14,200.00	7,177.06	7,441.80	7,231.40	114.75	41.81	89.34	-1,084.63	-5,617.65	895.96	789.02	106.94	8.378	
14,300.00	7,177.20	7,442.87	7,230.32	116.39	41.81	89.24	-1,084.63	-5,617.67	973.93	872.66	101.27	9.617	
14,400.00	7,177.35	7,443.95	7,229.25	118.03	41.81	89.13	-1,084.63	-5,617.68	1,055.61	959.29	96.32	10.959	
14,500.00	7,177.49	7,423.35	7,228.55	119.67	41.78	89.06	-1,084.62	-5,617.69	1,140.22	1,048.21	92.00	12.393	

Hewlett-Packard

Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-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 32N-30B-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

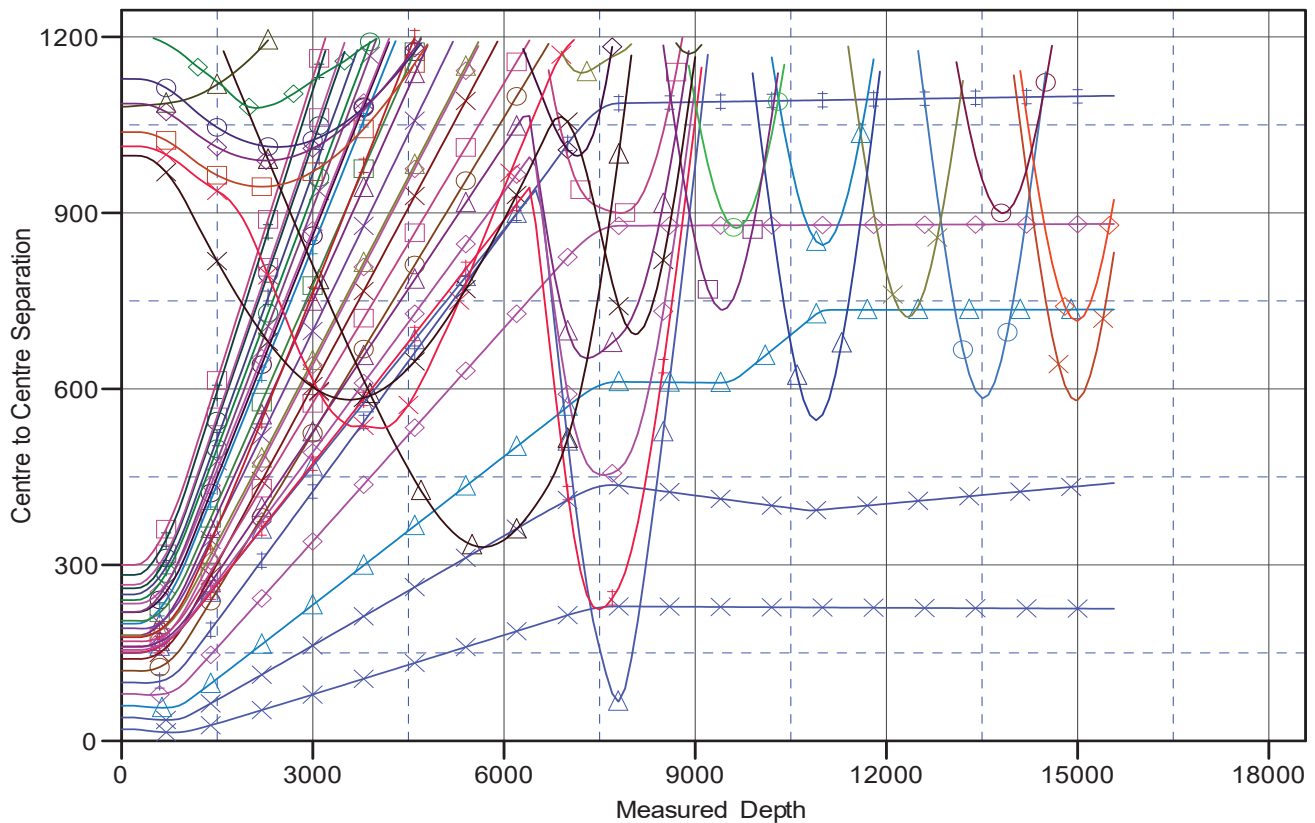
Central Meridian is -105.500000

Coordinates are relative to: SANFORD 32N-30B-M

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.45°

Ladder Plot



LEGEND

SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 9N-30B-M, Wellbore #1, Design #1 V0	LUNDVALL 30-11H6, Noble SI Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 5C-30-M, Wellbore #1, Design #1 V0	MOSSBERGPM J30-9, Noble PR Well, No Surveys V0
SANFORD 4C-30-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 26N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 1, XOG P&A Well, No Surveys V0
SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	SANFORD 4N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	BENSLEY 29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	CARLSON 1-29, Noble SI Well, Actual VES Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	BENSLEY J29-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J29-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	STEVE J 31-6, Noble PR Well, Actual Multishot Surveys V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	ROCKS-PM J30-12, Noble PR Well, No Surveys V0	KAMMERZELL J29-19, Noble SI Well, Actual Coretech Gross V0
SANFORD 9N-30C-M, Wellbore #1, Design #1 V0	MOSSBERGPM J30-10, Noble PR Well, No Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	
SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0	

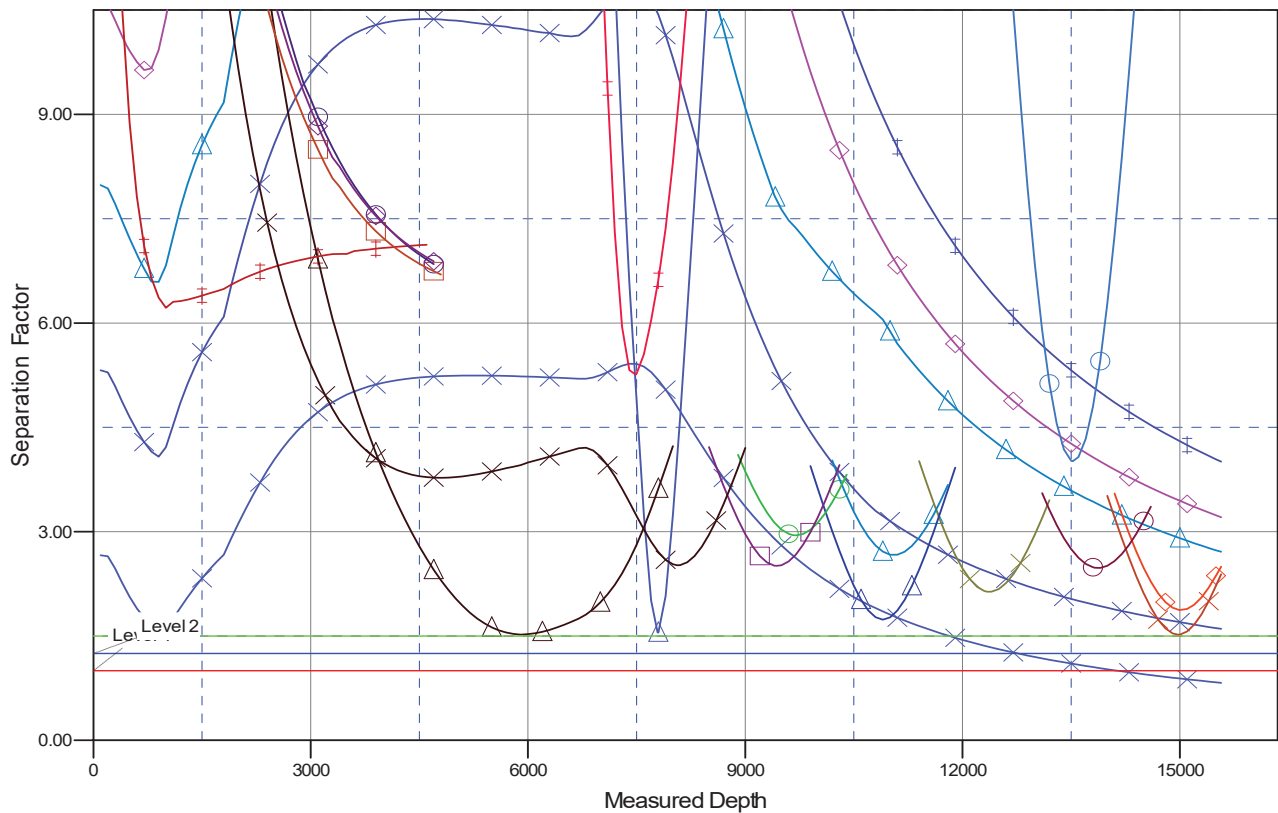
Hewlett-Packard
Anticollision Report

Company:	SRC ENERGY	Local Co-ordinate Reference:	Well SANFORD 32N-30B-M
Project:	WELD COUNTY (NAD83, TRUE NORTH)	TVD Reference:	RKB = 4' @ 4908.00usft (RIG)
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Reference Well:	SANFORD 32N-30B-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 32N-30B-M
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.45°

Separation Factor Plot



LEGEND

SANFORD 1N-27A-XR, Wellbore #1, Design #1 V0	SANFORD 9N-30B-M, Wellbore #1, Design #1 V0	LUNDVALL 30-11H6, Noble SI Well, No Surveys V0
SANFORD 4N-30A-M, Wellbore #1, Design #1 V0	SANFORD 1C-27-XR, Wellbore #1, Design #1 V0	MOSSBERGPM J30-9, Noble PR Well, No Surveys V0
SANFORD 4N-30B-M, Wellbore #1, Design #1 V0	SANFORD 30N-30A-M, Wellbore #1, Design #1 V0	UPRC 29-7C, Noble T/A Well, No Surveys V0
SANFORD 32N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28N-27A-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-3H6, Noble SI Well, No Surveys V0
SANFORD 31N-30B-M, Wellbore #1, Design #1 V0	SANFORD 40N-27C-XR, Wellbore #1, Design #1 V0	KAMMERZELL 1, XOG P&A Well, No Surveys V0
SANFORD 4N-30C-M, Wellbore #1, Design #1 V0	SANFORD 28C-27-XR, Wellbore #1, Design #1 V0	KAMMERZELL 29-4H6, XOG PR Well, No Surveys V0
SANFORD 1N-27B-XR, Wellbore #1, Design #1 V0	SANFORD 40N-27B-XR, Wellbore #1, Design #1 V0	BENSLEY 29-21D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 8C-27-XR, Wellbore #1, Design #1 V0	SANFORD 28N-27C-XR, Wellbore #1, Design #1 V0	UPV 29-2H6, Noble SI Well, No Surveys V0
SANFORD 1N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 30C-30-M, Wellbore #1, Design #1 V0	CARLSON 10-29, Noble SI Well, Actual VES Surveys V0
SANFORD 41N-27C-XR, Wellbore #1, Design #1 V0	SANFORD 8N-27C-XR, Wellbore #1, Design #1 V0	BENSLEY J25-18D, Noble SI Well, Actual Ensign Surveys V0
SANFORD 31N-30C-M, Wellbore #1, Design #1 V0	STEVE J 30-8, Noble PR Well, Actual Multishot Surveys V0	BENSLEY J25-17D, Noble PR Well, Actual Ensign Surveys V0
SANFORD 41N-27B-XR, Wellbore #1, Design #1 V0	ROCKS-PM J30-12, Noble PR Well, No Surveys V0	KAMMERZELL 29-6H6, Noble SI Well, No Surveys V0
SANFORD 9N-30C-M, Wellbore #1, Design #1 V0	MOSSBERGPM J30-10, Noble PR Well, No Surveys V0	KAMMERZELL J 29-19, Noble SI Well, Actual Coretech (Gras) V0
SANFORD 8N-27B-XR, Wellbore #1, Design #1 V0	LUNDVALL 3, Noble PR Well, No Surveys V0	BENSLEY J29-27D (Need Directional Surveys), Noble SI Well, No Surveys V0
SANFORD 30N-30B-M, Wellbore #1, Design #1 V0	HOMYAK 2 XOG SI Well, No Surveys V0	