

EXTRACTION OIL & GAS

Weld County

Sec 28-T1N-R68W

COYOTE TRAILS 33S-20-7N

ORIGINAL WELLBORE

PROPOSAL 1

Anticollision Report

29 November, 2017

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference	PROPOSAL 1		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.00usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Maximum center-center distance of 9,999.98 usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	11/29/2017		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	18,027.34	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD OWSG	OWSG MWD - Standard

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						
Sec 28-T1N-R68W						
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	1,000.00	1,000.00	215.94	209.22	32.127	CC, ES
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	18,027.46	17,871.77	1,740.70	1,341.04	4.355	SF
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	1,000.00	1,000.00	179.95	173.23	26.773	CC, ES
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	18,027.46	18,124.67	1,473.95	1,078.35	3.726	SF
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	1,000.00	1,000.00	143.96	137.24	21.418	CC, ES
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	18,024.56	17,884.88	1,160.59	760.52	2.901	SF
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	1,000.00	1,000.00	107.97	101.25	16.063	CC, ES
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	18,027.46	17,905.33	870.32	470.41	2.176	SF
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	1,000.00	1,000.00	71.98	65.26	10.709	CC, ES
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	18,027.46	18,189.28	636.28	262.23	1.701	SF
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	1,000.00	1,000.00	35.99	29.27	5.354	CC
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	18,027.46	17,975.54	290.01	-109.45	0.726	Level 1, ES, SF
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	700.00	700.00	53.99	49.42	11.812	CC, ES
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	18,027.46	18,325.69	1,057.27	657.38	2.644	SF
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	600.00	600.00	71.98	68.13	18.679	CC, ES
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	18,027.46	18,707.85	1,461.08	1,068.92	3.726	SF
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	500.00	500.00	89.97	86.84	28.685	CC, ES
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	18,027.46	18,668.44	1,817.58	1,417.95	4.548	SF
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	400.00	400.00	107.97	105.55	44.621	CC, ES
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	18,027.46	18,813.46	2,197.78	1,797.42	5.489	SF
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	300.00	300.00	125.97	124.26	73.978	CC, ES
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	18,027.46	19,186.66	2,556.17	2,158.89	6.434	SF
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	200.00	200.00	143.96	142.97	146.035	CC, ES
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	18,027.46	19,201.48	2,957.97	2,557.05	7.378	SF
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	100.00	100.00	161.96	161.69	602.394	CC, ES
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	18,027.46	19,362.42	3,332.97	2,931.44	8.301	SF
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	900.00	900.00	18.00	11.99	2.997	CC, ES
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	17,985.38	20,076.26	389.70	54.55	1.163	Level 2, SF
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	800.00	800.00	35.99	30.70	6.807	CC, ES
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	17,950.78	24,076.65	579.77	78.13	1.156	Level 2, SF
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,000.00	1,000.00	3,837.24	3,814.15	166.202	CC
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,100.00	1,100.02	3,838.89	3,813.45	150.858	ES
EXIST VERT CARR 1 - Wellbore #1 - Design #1	7,900.00	7,625.34	5,531.11	5,348.46	30.283	SF
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,000.00	1,019.00	899.60	876.18	38.427	CC
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,200.00	1,218.84	902.62	874.50	32.104	ES
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	7,650.00	7,430.81	2,204.46	2,025.43	12.314	SF
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,000.00	1,008.00	2,813.88	2,790.67	121.190	CC

CC - Min centre to center distance or covergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 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						
Sec 28-T1N-R68W						
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,100.00	1,108.02	2,815.54	2,789.96	110.078	ES
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	8,000.00	7,684.07	4,501.85	4,317.17	24.377	SF
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	6,444.06	6,240.65	504.35	344.33	3.152	CC
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,469.20	7,250.00	525.46	341.71	2.860	ES
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,500.00	7,280.78	526.23	341.79	2.853	SF
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,000.00	972.00	3,784.98	3,762.49	168.269	CC
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,100.00	1,071.98	3,785.91	3,761.06	152.336	ES
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	7,800.00	7,518.72	4,946.79	4,762.05	26.778	SF
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,000.00	1,023.00	3,582.38	3,558.86	152.306	CC
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,100.00	1,122.98	3,584.12	3,558.24	138.495	ES
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	7,950.00	7,683.33	5,340.22	5,156.70	29.099	SF
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	2,878.72	2,822.96	306.59	237.71	4.451	CC
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,000.00	2,938.77	308.69	236.79	4.293	ES
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,200.00	3,129.76	321.08	244.33	4.184	SF
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	2,771.21	2,700.29	242.04	176.29	3.681	CC
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	2,800.00	2,727.79	242.19	175.71	3.643	ES
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	3,000.00	2,918.77	251.39	180.02	3.522	SF
Sec 33-T1N-R68W						
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,226.56	7,178.00	1,497.68	1,407.77	16.659	CC, ES
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,300.00	7,178.00	1,499.48	1,409.21	16.612	SF
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,095.27	7,768.98	202.96	-17.20	0.922	Level 1, CC
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,100.00	7,768.98	203.02	-17.64	0.920	Level 1, ES, SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,400.00	8,098.25	1,144.03	1,060.33	13.668	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,578.53	8,099.15	1,130.01	1,048.16	13.806	CC, ES
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,331.31	8,095.06	968.53	848.36	8.060	CC, ES
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,400.00	8,092.36	970.96	850.29	8.047	SF

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Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 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						
Sec 34-T1N-R68W						
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	11,744.93	7,746.96	1,835.60	1,589.00	7.444	CC
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	11,800.00	7,746.96	1,836.43	1,588.35	7.402	ES
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	12,000.00	7,746.95	1,853.24	1,600.42	7.330	SF
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,250.05	5,503.00	5,753.25	5,572.18	31.774	CC
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,400.00	5,503.00	5,755.21	5,571.37	31.307	ES
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	13,500.00	5,503.00	6,177.55	5,960.24	28.427	SF
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,236.94	7,702.95	5,130.02	4,876.03	20.197	CC
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,300.00	7,702.95	5,130.41	4,875.11	20.095	ES
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	13,700.00	7,702.93	5,334.57	5,054.48	19.046	SF
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	6,566.22	5,145.00	4,525.00	4,397.59	35.515	CC, ES
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	11,000.00	5,145.00	5,509.28	5,345.52	33.642	SF
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,228.00	7,760.03	2,665.76	2,554.55	23.970	CC
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,300.00	7,760.58	2,666.74	2,553.90	23.633	ES
BICKLER 23-34 - Wellbore #1 - Wellbore #1	12,100.00	7,766.62	2,804.75	2,677.74	22.083	SF
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,736.00	7,983.57	2,685.45	2,534.08	17.742	CC
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,800.00	7,982.93	2,686.21	2,533.48	17.589	ES
BICKLER 24-34 - Wellbore #1 - Wellbore #1	13,300.00	7,977.68	2,744.02	2,583.11	17.053	SF
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,636.81	7,666.77	3,444.05	3,345.94	35.106	CC
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,700.00	7,667.89	3,444.63	3,345.16	34.631	ES
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	12,000.00	7,687.82	3,703.96	3,582.00	30.372	SF
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,914.81	7,780.88	3,424.03	3,296.49	26.846	CC
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	12,000.00	7,780.76	3,425.09	3,295.63	26.456	ES
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	13,000.00	7,779.26	3,591.88	3,444.86	24.431	SF
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,048.41	7,809.98	1,700.77	1,480.49	7.721	CC
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,100.00	7,809.98	1,701.55	1,479.92	7.677	ES
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,300.00	7,809.98	1,719.28	1,492.84	7.593	SF
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,200.15	8,035.29	4,536.17	4,338.82	22.985	CC
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,300.00	8,035.59	4,537.27	4,337.80	22.747	ES
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	17,400.00	8,038.91	4,692.17	4,474.13	21.520	SF
Sec 3-T1S-R68W						
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,559.09	7,771.88	2,872.87	2,525.45	8.269	CC
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,600.00	7,771.88	2,873.16	2,524.75	8.246	ES
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,900.00	7,771.88	2,893.03	2,538.53	8.161	SF
Sec 4-T1N-R68W						
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,175.59	5,625.00	3,080.71	2,903.50	17.385	CC
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,200.00	5,625.00	3,080.81	2,903.45	17.371	ES
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,500.00	5,625.00	3,097.74	2,918.67	17.299	SF
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,991.34	7,753.92	778.15	475.85	2.574	CC
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	15,000.00	7,753.92	778.20	475.53	2.571	ES
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	15,100.00	7,753.91	785.70	480.04	2.570	SF
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,492.96	7,815.88	3,262.96	2,915.81	9.399	CC
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,500.00	7,815.88	3,262.97	2,915.74	9.397	ES
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,700.00	7,815.88	3,269.53	2,920.43	9.366	SF
EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #	16,500.00	7,779.90	746.70	417.51	2.268	ES, SF
EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #	16,504.94	7,779.90	746.68	417.54	2.269	CC

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	1.20	-215.93	215.94					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	1.20	-215.93	215.94	215.67	0.27	803.175		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	1.20	-215.93	215.94	214.95	0.99	219.048		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	1.20	-215.93	215.94	214.23	1.70	126.817		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	1.20	-215.93	215.94	213.52	2.42	89.242		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	1.20	-215.93	215.94	212.80	3.14	68.844		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	1.20	-215.93	215.94	212.08	3.85	56.036		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	1.20	-215.93	215.94	211.37	4.57	47.246		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	1.20	-215.93	215.94	210.65	5.29	40.839		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	1.20	-215.93	215.94	209.93	6.00	35.963		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	1.20	-215.93	215.94	209.22	6.72	32.127	CC, ES	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.72	143.57	1.20	-215.93	217.34	209.91	7.42	29.274		
1,200.00	1,199.84	1,200.16	1,199.84	4.04	4.08	144.32	1.20	-215.93	221.57	213.45	8.12	27.294		
1,300.00	1,299.45	1,300.55	1,299.45	4.39	4.44	145.51	1.20	-215.93	228.71	219.90	8.82	25.936		
1,400.00	1,398.70	1,401.30	1,398.70	4.74	4.80	147.06	1.20	-215.93	238.88	229.35	9.53	25.076		
1,500.00	1,497.47	1,502.53	1,497.47	5.12	5.16	148.84	1.20	-215.93	252.18	241.94	10.24	24.624		
1,600.00	1,595.62	1,595.62	1,595.62	5.51	5.50	150.78	1.20	-215.93	268.75	257.82	10.93	24.581		
1,700.00	1,693.06	1,692.74	1,692.72	5.94	5.83	152.45	-0.27	-216.25	288.74	277.11	11.63	24.831		
1,800.00	1,789.64	1,789.50	1,789.36	6.39	6.14	153.53	-4.93	-217.26	312.08	299.76	12.32	25.341		
1,863.26	1,850.25	1,850.46	1,850.14	6.70	6.35	153.95	-9.50	-218.25	328.49	315.73	12.76	25.751		
1,900.00	1,885.34	1,885.81	1,885.34	6.89	6.46	154.18	-12.73	-218.95	338.38	325.37	13.01	26.002		
2,000.00	1,980.83	1,982.13	1,980.99	7.41	6.78	154.38	-23.68	-221.32	365.33	351.61	13.72	26.622		
2,100.00	2,076.33	2,078.42	2,076.20	7.95	7.12	154.07	-37.76	-224.36	392.27	377.82	14.45	27.139		
2,200.00	2,171.82	2,174.47	2,170.63	8.50	7.47	153.34	-54.91	-228.08	419.26	404.05	15.21	27.564		
2,300.00	2,267.32	2,270.47	2,264.63	9.07	7.83	152.43	-73.98	-232.20	446.35	430.36	15.99	27.906		
2,400.00	2,362.81	2,366.50	2,358.65	9.64	8.21	151.62	-93.08	-236.33	473.54	456.75	16.80	28.188		
2,500.00	2,458.30	2,462.53	2,452.67	10.22	8.59	150.90	-112.17	-240.47	500.81	483.19	17.62	28.421		
2,600.00	2,553.80	2,558.56	2,546.69	10.81	8.99	150.25	-131.27	-244.60	528.15	509.69	18.46	28.612		
2,700.00	2,649.29	2,654.59	2,640.71	11.41	9.39	149.67	-150.37	-248.73	555.54	536.23	19.31	28.769		
2,800.00	2,744.79	2,750.62	2,734.73	12.01	9.80	149.14	-169.46	-252.87	582.98	562.80	20.17	28.897		
2,900.00	2,840.28	2,846.65	2,828.75	12.61	10.22	148.66	-188.56	-257.00	610.46	589.41	21.05	29.003		
3,000.00	2,935.77	2,942.68	2,922.77	13.22	10.64	148.22	-207.66	-261.13	637.97	616.04	21.93	29.089		
3,100.00	3,031.27	3,038.71	3,016.79	13.83	11.07	147.82	-226.75	-265.26	665.52	642.70	22.82	29.160		
3,200.00	3,126.76	3,134.74	3,110.81	14.44	11.50	147.45	-245.85	-269.40	693.10	669.38	23.72	29.217		
3,300.00	3,222.26	3,230.76	3,204.83	15.06	11.94	147.10	-264.95	-273.53	720.70	696.07	24.63	29.263		
3,400.00	3,317.75	3,326.79	3,298.85	15.68	12.38	146.79	-284.05	-277.66	748.33	722.78	25.54	29.299		
3,500.00	3,413.25	3,422.82	3,392.87	16.30	12.82	146.49	-303.14	-281.79	775.97	749.51	26.46	29.328		
3,600.00	3,508.74	3,518.85	3,486.89	16.92	13.26	146.22	-322.24	-285.93	803.63	776.25	27.38	29.351		
3,700.00	3,604.23	3,614.88	3,580.91	17.54	13.71	145.96	-341.34	-290.06	831.31	803.00	28.31	29.368		
3,800.00	3,699.73	3,710.91	3,674.93	18.17	14.16	145.72	-360.43	-294.19	859.00	829.76	29.24	29.380		
3,900.00	3,795.22	3,806.94	3,768.95	18.79	14.61	145.49	-379.53	-298.33	886.71	856.53	30.17	29.389		
4,000.00	3,890.72	3,902.97	3,862.97	19.42	15.06	145.28	-398.63	-302.46	914.42	883.31	31.11	29.394		
4,100.00	3,986.21	3,999.00	3,956.99	20.05	15.52	145.08	-417.72	-306.59	942.15	910.10	32.05	29.397		
4,200.00	4,081.70	4,104.97	4,051.01	20.67	16.02	144.90	-436.82	-310.72	969.89	936.85	33.04	29.355		
4,300.00	4,177.20	4,208.95	4,145.03	21.30	16.52	144.72	-455.92	-314.86	997.64	963.61	34.02	29.322		
4,400.00	4,272.69	4,287.08	4,239.05	21.93	16.89	144.55	-475.02	-318.99	1,025.39	990.50	34.89	29.392		
4,500.00	4,368.19	4,383.11	4,333.07	22.56	17.35	144.39	-494.11	-323.12	1,053.15	1,017.32	35.84	29.387		
4,600.00	4,463.68	4,479.14	4,427.09	23.19	17.81	144.24	-513.21	-327.25	1,080.92	1,044.13	36.79	29.381		
4,700.00	4,559.17	4,575.17	4,521.11	23.83	18.28	144.10	-532.31	-331.39	1,108.70	1,070.96	37.74	29.374		
4,800.00	4,654.67	4,671.20	4,615.13	24.46	18.74	143.96	-551.40	-335.52	1,136.48	1,097.78	38.70	29.367		
4,900.00	4,750.16	4,767.23	4,709.15	25.09	19.21	143.83	-570.50	-339.65	1,164.27	1,124.61	39.66	29.358		
5,000.00	4,845.66	4,863.26	4,803.17	25.72	19.67	143.71	-589.60	-343.79	1,192.06	1,151.45	40.62	29.349		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,959.29	4,897.19	26.36	20.14	143.59	-608.69	-347.92	1,219.86	1,178.29	41.58	29.340		
5,200.00	5,036.65	5,055.32	4,991.21	26.99	20.60	143.48	-627.79	-352.05	1,247.66	1,205.13	42.54	29.330		
5,300.00	5,132.14	5,151.34	5,085.23	27.63	21.07	143.37	-646.89	-356.18	1,275.47	1,231.97	43.50	29.320		
5,400.00	5,227.63	5,247.37	5,179.25	28.26	21.54	143.27	-665.99	-360.32	1,303.28	1,258.82	44.47	29.310		
5,500.00	5,323.13	5,343.40	5,273.27	28.90	22.01	143.17	-685.08	-364.45	1,331.10	1,285.67	45.43	29.300		
5,600.00	5,418.62	5,439.43	5,367.30	29.53	22.48	143.07	-704.18	-368.58	1,358.92	1,312.52	46.40	29.289		
5,700.00	5,514.12	5,535.46	5,461.32	30.17	22.95	142.98	-723.28	-372.71	1,386.74	1,339.37	47.36	29.278		
5,800.00	5,609.61	5,631.49	5,555.34	30.80	23.42	142.90	-742.37	-376.85	1,414.56	1,366.23	48.33	29.268		
5,900.00	5,705.10	5,727.52	5,649.36	31.44	23.89	142.81	-761.47	-380.98	1,442.39	1,393.09	49.30	29.257		
6,000.00	5,800.60	5,823.55	5,743.38	32.08	24.36	142.73	-780.57	-385.11	1,470.22	1,419.95	50.27	29.246		
6,100.00	5,896.09	5,919.58	5,837.40	32.71	24.83	142.65	-799.67	-389.25	1,498.05	1,446.81	51.24	29.236		
6,200.00	5,991.59	6,015.61	5,931.42	33.35	25.30	142.58	-818.76	-393.38	1,525.89	1,473.68	52.21	29.225		
6,300.00	6,087.08	6,111.63	6,025.44	33.99	25.78	142.51	-837.86	-397.51	1,553.73	1,500.54	53.18	29.214		
6,400.00	6,182.57	6,207.66	6,119.46	34.62	26.25	142.44	-856.96	-401.64	1,581.57	1,527.41	54.16	29.204		
6,499.99	6,278.06	6,303.68	6,213.46	35.26	26.72	142.37	-876.05	-405.78	1,609.41	1,554.28	55.13	29.193		
6,505.95	6,283.75	6,309.40	6,219.07	35.30	26.75	142.36	-877.19	-406.02	1,611.06	1,555.88	55.19	29.192		
6,600.00	6,374.00	6,400.03	6,307.80	35.88	27.20	142.58	-895.21	-409.92	1,636.08	1,579.98	56.10	29.164		
6,700.00	6,470.87	6,503.02	6,402.72	36.44	27.70	142.71	-914.49	-414.09	1,660.07	1,602.99	57.09	29.080		
6,800.00	6,568.53	6,594.44	6,498.14	36.96	28.15	142.74	-933.87	-418.29	1,681.39	1,623.39	58.00	28.987		
6,900.00	6,666.89	6,698.53	6,600.14	37.43	28.66	142.65	-954.16	-422.68	1,699.94	1,640.95	58.99	28.818		
7,000.00	6,765.82	6,811.41	6,711.43	37.85	29.18	142.55	-972.58	-426.66	1,715.11	1,655.13	59.98	28.595		
7,100.00	6,865.19	6,925.41	6,824.49	38.22	29.66	142.47	-986.81	-429.75	1,726.71	1,665.82	60.89	28.357		
7,200.00	6,964.89	7,040.22	6,938.85	38.55	30.09	142.42	-996.70	-431.88	1,734.71	1,672.98	61.73	28.104		
7,300.00	7,064.80	7,155.56	7,054.05	38.83	30.48	142.39	-1,002.11	-433.06	1,739.06	1,676.59	62.47	27.837		
7,369.20	7,134.00	7,235.53	7,134.00	39.00	30.73	-90.61	-1,003.20	-433.29	1,739.94	1,677.01	62.93	27.647		
7,400.00	7,164.80	7,266.32	7,164.80	39.06	30.81	-90.61	-1,003.20	-433.29	1,739.94	1,676.85	63.09	27.577		
7,446.14	7,210.93	7,312.46	7,210.93	39.17	30.94	-90.61	-1,003.20	-433.29	1,739.94	1,676.60	63.34	27.472		
7,469.20	7,234.00	7,335.53	7,234.00	39.22	31.00	-90.61	-1,003.20	-433.29	1,739.94	1,676.48	63.46	27.419		
7,500.00	7,264.78	7,365.89	7,264.35	39.29	31.10	89.74	-1,004.01	-433.29	1,739.94	1,676.30	63.64	27.339		
7,550.00	7,314.53	7,415.19	7,313.40	39.44	31.29	89.74	-1,008.73	-433.26	1,739.94	1,675.93	64.01	27.183		
7,600.00	7,363.66	7,464.50	7,361.88	39.62	31.52	89.74	-1,017.65	-433.21	1,739.94	1,675.49	64.45	26.998		
7,650.00	7,411.81	7,513.82	7,409.42	39.82	31.78	89.75	-1,030.72	-433.13	1,739.94	1,674.98	64.96	26.785		
7,700.00	7,458.61	7,563.15	7,456.69	40.06	32.09	89.76	-1,047.82	-433.03	1,739.94	1,674.40	65.54	26.548		
7,750.00	7,503.69	7,612.52	7,500.32	40.32	32.42	89.77	-1,068.86	-432.91	1,739.94	1,673.75	66.19	26.287		
7,800.00	7,546.72	7,661.90	7,543.01	40.60	32.80	89.78	-1,093.67	-432.76	1,739.95	1,673.04	66.91	26.006		
7,850.00	7,587.38	7,711.33	7,583.43	40.92	33.20	89.79	-1,122.08	-432.59	1,739.95	1,672.26	67.69	25.706		
7,900.00	7,625.34	7,760.79	7,621.28	41.25	33.64	89.81	-1,153.89	-432.40	1,739.95	1,671.42	68.53	25.390		
7,950.00	7,660.33	7,810.28	7,656.27	41.61	34.10	89.82	-1,188.88	-432.20	1,739.95	1,670.52	69.43	25.060		
8,000.00	7,692.07	7,859.83	7,688.14	42.00	34.60	89.84	-1,226.79	-431.97	1,739.96	1,669.57	70.39	24.719		
8,050.00	7,720.33	7,909.42	7,716.64	42.40	35.12	89.86	-1,267.36	-431.73	1,739.96	1,668.56	71.40	24.370		
8,100.00	7,744.89	7,959.06	7,741.56	42.83	35.66	89.88	-1,310.28	-431.48	1,739.96	1,667.51	72.46	24.014		
8,150.00	7,765.56	8,008.76	7,762.69	43.27	36.23	89.90	-1,355.24	-431.22	1,739.97	1,666.41	73.55	23.655		
8,200.00	7,782.18	8,058.52	7,779.86	43.74	36.81	89.92	-1,401.92	-430.94	1,739.97	1,665.28	74.69	23.296		
8,250.00	7,794.63	8,108.33	7,792.93	44.22	37.41	89.94	-1,449.97	-430.66	1,739.98	1,664.12	75.85	22.938		
8,300.00	7,802.82	8,158.20	7,801.78	44.71	38.03	89.97	-1,499.04	-430.37	1,739.98	1,662.94	77.04	22.585		
8,350.00	7,806.68	8,208.14	7,806.34	45.21	38.64	89.99	-1,548.75	-430.08	1,739.99	1,661.75	78.24	22.240		
8,369.28	7,807.00	8,227.41	7,806.94	45.40	38.88	90.00	-1,568.01	-429.96	1,739.99	1,661.29	78.70	22.109		
8,400.00	7,807.00	8,258.13	7,807.00	45.72	39.27	90.00	-1,598.73	-429.78	1,739.99	1,660.55	79.45	21.902		
8,500.00	7,807.00	8,358.13	7,807.00	46.77	40.54	90.00	-1,698.72	-429.19	1,740.01	1,658.09	81.92	21.241		
8,600.00	7,807.00	8,458.13	7,806.99	47.86	41.85	90.00	-1,798.72	-428.60	1,740.02	1,655.55	84.47	20.600		
8,700.00	7,807.00	8,558.13	7,806.99	48.99	43.19	90.00	-1,898.72	-428.01	1,740.03	1,652.95	87.08	19.981		
8,800.00	7,806.99	8,658.13	7,806.99	50.16	44.56	90.00	-1,998.72	-427.42	1,740.04	1,650.28	89.77	19.384		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	8,758.13	7,806.99	51.37	45.96	90.00	-2,098.72	-426.83	1,740.05	1,647.55	92.51	18.810		
9,000.00	7,806.99	8,858.13	7,806.99	52.60	47.38	90.00	-2,198.72	-426.24	1,740.07	1,644.77	95.30	18.259		
9,100.00	7,806.99	8,958.13	7,806.98	53.87	48.83	90.00	-2,298.71	-425.65	1,740.08	1,641.94	98.14	17.731		
9,200.00	7,806.99	9,058.13	7,806.98	55.17	50.30	90.00	-2,398.71	-425.06	1,740.09	1,639.06	101.03	17.224		
9,300.00	7,806.99	9,158.13	7,806.98	56.49	51.79	90.00	-2,498.71	-424.48	1,740.10	1,636.15	103.95	16.739		
9,400.00	7,806.99	9,258.13	7,806.98	57.83	53.29	90.00	-2,598.71	-423.89	1,740.11	1,633.20	106.92	16.275		
9,500.00	7,806.99	9,358.13	7,806.97	59.20	54.81	90.00	-2,698.71	-423.30	1,740.13	1,630.21	109.92	15.832		
9,600.00	7,806.98	9,458.13	7,806.97	60.59	56.35	90.00	-2,798.71	-422.71	1,740.14	1,627.19	112.95	15.407		
9,700.00	7,806.98	9,558.13	7,806.97	62.00	57.90	90.00	-2,898.70	-422.12	1,740.15	1,624.15	116.01	15.001		
9,800.00	7,806.98	9,658.13	7,806.97	63.43	59.46	90.00	-2,998.70	-421.53	1,740.16	1,621.07	119.09	14.612		
9,900.00	7,806.98	9,758.13	7,806.96	64.87	61.03	90.00	-3,098.70	-420.94	1,740.17	1,617.97	122.20	14.240		
10,000.00	7,806.98	9,858.13	7,806.96	66.34	62.61	90.00	-3,198.70	-420.35	1,740.19	1,614.85	125.34	13.884		
10,100.00	7,806.98	9,958.13	7,806.96	67.81	64.21	90.00	-3,298.70	-419.76	1,740.20	1,611.70	128.49	13.543		
10,200.00	7,806.98	10,058.13	7,806.96	69.30	65.81	90.00	-3,398.70	-419.17	1,740.21	1,608.54	131.67	13.216		
10,300.00	7,806.98	10,158.13	7,806.95	70.81	67.42	90.00	-3,498.69	-418.58	1,740.22	1,605.36	134.86	12.904		
10,400.00	7,806.97	10,258.13	7,806.95	72.32	69.04	90.00	-3,598.69	-417.99	1,740.24	1,602.16	138.08	12.603		
10,500.00	7,806.97	10,358.13	7,806.95	73.85	70.67	90.00	-3,698.69	-417.40	1,740.25	1,599.94	141.30	12.316		
10,600.00	7,806.97	10,458.13	7,806.95	75.39	72.30	90.00	-3,798.69	-416.81	1,740.26	1,597.71	144.55	12.040		
10,700.00	7,806.97	10,558.13	7,806.95	76.94	73.94	90.00	-3,898.69	-416.22	1,740.27	1,595.47	147.80	11.774		
10,800.00	7,806.97	10,658.13	7,806.94	78.49	75.59	90.00	-3,998.68	-415.63	1,740.28	1,593.21	151.07	11.520		
10,900.00	7,806.97	10,758.13	7,806.94	80.06	77.24	90.00	-4,098.68	-415.04	1,740.30	1,590.94	154.35	11.275		
11,000.00	7,806.97	10,858.13	7,806.94	81.64	78.90	90.00	-4,198.68	-414.45	1,740.31	1,588.66	157.65	11.039		
11,100.00	7,806.97	10,958.13	7,806.94	83.22	80.56	90.00	-4,298.68	-413.86	1,740.32	1,586.37	160.95	10.813		
11,200.00	7,806.96	11,058.13	7,806.93	84.81	82.22	90.00	-4,398.68	-413.27	1,740.33	1,584.07	164.26	10.595		
11,300.00	7,806.96	11,158.13	7,806.93	86.41	83.90	90.00	-4,498.68	-412.68	1,740.34	1,581.76	167.59	10.385		
11,400.00	7,806.96	11,258.13	7,806.93	88.01	85.57	90.00	-4,598.67	-412.09	1,740.36	1,579.44	170.92	10.182		
11,500.00	7,806.96	11,358.13	7,806.93	89.63	87.25	90.00	-4,698.67	-411.50	1,740.37	1,577.11	174.26	9.987		
11,600.00	7,806.96	11,458.13	7,806.92	91.24	88.93	90.00	-4,798.67	-410.92	1,740.38	1,574.77	177.61	9.799		
11,700.00	7,806.96	11,558.13	7,806.92	92.87	90.62	90.00	-4,898.67	-410.33	1,740.39	1,572.43	180.97	9.617		
11,800.00	7,806.96	11,658.13	7,806.92	94.49	92.31	90.00	-4,998.67	-409.74	1,740.40	1,570.08	184.33	9.442		
11,900.00	7,806.95	11,758.13	7,806.92	96.13	94.00	90.00	-5,098.67	-409.15	1,740.42	1,567.72	187.70	9.272		
12,000.00	7,806.95	11,858.13	7,806.92	97.77	95.69	90.00	-5,198.66	-408.56	1,740.43	1,565.35	191.08	9.109		
12,100.00	7,806.95	11,958.13	7,806.91	99.41	97.39	90.00	-5,298.66	-407.97	1,740.44	1,562.98	194.46	8.950		
12,200.00	7,806.95	12,058.13	7,806.91	101.06	99.09	90.00	-5,398.66	-407.38	1,740.45	1,560.61	197.85	8.797		
12,300.00	7,806.95	12,158.13	7,806.91	102.71	100.80	90.00	-5,498.66	-406.79	1,740.46	1,558.22	201.24	8.649		
12,400.00	7,806.95	12,258.13	7,806.91	104.37	102.50	90.00	-5,598.66	-406.20	1,740.48	1,555.84	204.64	8.505		
12,500.00	7,806.95	12,358.13	7,806.90	106.02	104.21	90.00	-5,698.66	-405.61	1,740.49	1,553.45	208.04	8.366		
12,600.00	7,806.95	12,458.13	7,806.90	107.69	105.92	90.00	-5,798.65	-405.02	1,740.50	1,551.05	211.45	8.231		
12,700.00	7,806.94	12,558.13	7,806.90	109.35	107.63	90.00	-5,898.65	-404.43	1,740.51	1,548.65	214.86	8.101		
12,800.00	7,806.94	12,658.13	7,806.90	111.02	109.35	90.00	-5,998.65	-403.84	1,740.53	1,546.24	218.28	7.974		
12,900.00	7,806.94	12,758.13	7,806.89	112.70	111.06	90.00	-6,098.65	-403.25	1,740.54	1,543.83	221.70	7.851		
13,000.00	7,806.94	12,858.13	7,806.89	114.37	112.78	90.00	-6,198.65	-402.66	1,740.55	1,541.42	225.13	7.731		
13,100.00	7,806.94	12,958.13	7,806.89	116.05	114.50	90.00	-6,298.64	-402.07	1,740.56	1,539.00	228.56	7.615		
13,200.00	7,806.94	13,058.13	7,806.89	117.74	116.22	90.00	-6,398.64	-401.48	1,740.57	1,536.58	231.99	7.503		
13,300.00	7,806.94	13,158.13	7,806.88	119.42	117.94	90.00	-6,498.64	-400.89	1,740.59	1,534.16	235.43	7.393		
13,400.00	7,806.94	13,258.13	7,806.88	121.11	119.67	90.00	-6,598.64	-400.30	1,740.60	1,531.73	238.86	7.287		
13,500.00	7,806.93	13,358.13	7,806.88	122.80	121.39	90.00	-6,698.64	-399.71	1,740.61	1,498.30	242.31	7.184		
13,600.00	7,806.93	13,458.13	7,806.88	124.49	123.12	90.00	-6,798.64	-399.12	1,740.62	1,495.87	245.75	7.083		
13,700.00	7,806.93	13,558.13	7,806.88	126.18	124.85	90.00	-6,898.63	-398.53	1,740.63	1,493.43	249.20	6.985		
13,800.00	7,806.93	13,658.13	7,806.87	127.88	126.58	90.00	-6,998.63	-397.95	1,740.65	1,491.00	252.65	6.890		
13,900.00	7,806.93	13,758.13	7,806.87	129.58	128.31	90.00	-7,098.63	-397.36	1,740.66	1,488.56	256.10	6.797		
14,000.00	7,806.93	13,858.13	7,806.87	131.28	130.04	90.00	-7,198.63	-396.77	1,740.67	1,486.11	259.56	6.706		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	13,958.13	7,806.87	132.98	131.77	90.00	-7,298.63	-396.18	1,740.68	1,477.67	263.02	6.618		
14,200.00	7,806.93	14,058.13	7,806.86	134.68	133.51	90.00	-7,398.63	-395.59	1,740.69	1,474.22	266.48	6.532		
14,300.00	7,806.92	14,158.13	7,806.86	136.39	135.24	90.00	-7,498.62	-395.00	1,740.71	1,470.77	269.94	6.449		
14,400.00	7,806.92	14,258.13	7,806.86	138.10	136.98	90.00	-7,598.62	-394.41	1,740.72	1,467.31	273.40	6.367		
14,500.00	7,806.92	14,358.13	7,806.86	139.81	138.71	90.00	-7,698.62	-393.82	1,740.73	1,463.86	276.87	6.287		
14,600.00	7,806.92	14,458.13	7,806.85	141.52	140.45	90.00	-7,798.62	-393.23	1,740.74	1,460.40	280.34	6.209		
14,700.00	7,806.92	14,558.13	7,806.85	143.23	142.19	90.00	-7,898.62	-392.64	1,740.75	1,456.94	283.81	6.133		
14,800.00	7,806.92	14,658.13	7,806.85	144.94	143.93	90.00	-7,998.62	-392.05	1,740.77	1,453.48	287.28	6.059		
14,900.00	7,806.92	14,758.13	7,806.85	146.66	145.67	90.00	-8,098.61	-391.46	1,740.78	1,450.02	290.76	5.987		
15,000.00	7,806.92	14,858.13	7,806.84	148.37	147.41	90.00	-8,198.61	-390.87	1,740.79	1,446.56	294.23	5.916		
15,100.00	7,806.91	14,958.13	7,806.84	150.09	149.15	90.00	-8,298.61	-390.28	1,740.80	1,443.09	297.71	5.847		
15,200.00	7,806.91	15,058.13	7,806.84	151.81	150.90	90.00	-8,398.61	-389.69	1,740.81	1,439.62	301.19	5.780		
15,300.00	7,806.91	15,158.13	7,806.84	153.53	152.64	90.00	-8,498.61	-389.10	1,740.83	1,436.15	304.67	5.714		
15,400.00	7,806.91	15,258.13	7,806.84	155.25	154.38	90.00	-8,598.61	-388.51	1,740.84	1,432.68	308.15	5.649		
15,500.00	7,806.91	15,358.13	7,806.83	156.97	156.13	90.00	-8,698.60	-387.92	1,740.85	1,429.21	311.64	5.586		
15,600.00	7,806.91	15,458.13	7,806.83	158.70	157.87	90.00	-8,798.60	-387.33	1,740.86	1,425.74	315.12	5.524		
15,700.00	7,806.91	15,558.13	7,806.83	160.42	159.62	90.00	-8,898.60	-386.74	1,740.88	1,422.27	318.61	5.464		
15,800.00	7,806.91	15,658.13	7,806.83	162.15	161.37	90.00	-8,998.60	-386.15	1,740.89	1,418.79	322.10	5.405		
15,900.00	7,806.90	15,758.13	7,806.82	163.88	163.11	90.00	-9,098.60	-385.56	1,740.90	1,415.31	325.59	5.347		
16,000.00	7,806.90	15,858.13	7,806.82	165.60	164.86	90.00	-9,198.59	-384.98	1,740.91	1,411.83	329.08	5.290		
16,100.00	7,806.90	15,958.13	7,806.82	167.33	166.61	90.00	-9,298.59	-384.39	1,740.92	1,408.35	332.57	5.235		
16,200.00	7,806.90	16,058.13	7,806.82	169.06	168.36	90.00	-9,398.59	-383.80	1,740.94	1,404.87	336.06	5.180		
16,300.00	7,806.90	16,158.13	7,806.81	170.79	170.11	90.00	-9,498.59	-383.21	1,740.95	1,401.39	339.56	5.127		
16,400.00	7,806.90	16,258.13	7,806.81	172.52	171.86	90.00	-9,598.59	-382.62	1,740.96	1,397.91	343.05	5.075		
16,500.00	7,806.90	16,358.13	7,806.81	174.26	173.61	90.00	-9,698.59	-382.03	1,740.97	1,394.43	346.55	5.024		
16,600.00	7,806.89	16,458.13	7,806.81	175.99	175.36	90.00	-9,798.58	-381.44	1,740.98	1,390.94	350.04	4.974		
16,700.00	7,806.89	16,558.13	7,806.80	177.72	177.11	90.00	-9,898.58	-380.85	1,741.00	1,387.46	353.54	4.924		
16,800.00	7,806.89	16,658.13	7,806.80	179.46	178.86	90.00	-9,998.58	-380.26	1,741.01	1,383.97	357.04	4.876		
16,900.00	7,806.89	16,758.13	7,806.80	181.19	180.61	90.00	-10,098.58	-379.67	1,741.02	1,380.48	360.54	4.829		
17,000.00	7,806.89	16,858.13	7,806.80	182.93	182.36	90.00	-10,198.58	-379.08	1,741.03	1,376.99	364.04	4.783		
17,100.00	7,806.89	16,958.13	7,806.80	184.67	184.12	90.00	-10,298.58	-378.49	1,741.04	1,373.50	367.54	4.737		
17,200.00	7,806.89	17,058.13	7,806.79	186.40	185.87	90.00	-10,398.57	-377.90	1,741.06	1,370.01	371.04	4.692		
17,300.00	7,806.89	17,158.13	7,806.79	188.14	187.62	90.00	-10,498.57	-377.31	1,741.07	1,366.52	374.55	4.648		
17,400.00	7,806.88	17,258.13	7,806.79	189.88	189.38	90.00	-10,598.57	-376.72	1,741.08	1,363.03	378.05	4.605		
17,500.00	7,806.88	17,358.13	7,806.79	191.62	191.13	90.00	-10,698.57	-376.13	1,741.09	1,359.54	381.56	4.563		
17,600.00	7,806.88	17,458.13	7,806.78	193.36	192.89	90.00	-10,798.57	-375.54	1,741.10	1,356.04	385.06	4.522		
17,700.00	7,806.88	17,558.13	7,806.78	195.10	194.64	90.00	-10,898.57	-374.95	1,741.12	1,352.55	388.57	4.481		
17,800.00	7,806.88	17,658.13	7,806.78	196.84	196.40	90.00	-10,998.56	-374.36	1,741.13	1,349.05	392.07	4.441		
17,900.00	7,806.88	17,758.13	7,806.78	198.58	198.15	90.00	-11,098.56	-373.77	1,741.14	1,345.56	395.58	4.401		
18,000.00	7,806.88	17,863.98	7,806.98	200.33	200.01	90.00	-11,204.41	-372.93	1,740.95	1,341.70	399.25	4.361		
18,024.37	7,806.88	17,871.77	7,807.00	200.75	200.15	90.00	-11,212.20	-372.86	1,740.95	1,341.30	399.65	4.356		
18,027.46	7,807.00	17,871.77	7,807.00	200.80	200.15	90.00	-11,212.20	-372.86	1,740.70	1,341.04	399.66	4.355 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	1.00	-179.95	179.95					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	1.00	-179.95	179.95	179.68	0.27	669.317		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	1.00	-179.95	179.95	178.96	0.99	182.541		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	1.00	-179.95	179.95	178.25	1.70	105.682		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	1.00	-179.95	179.95	177.53	2.42	74.369		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	1.00	-179.95	179.95	176.81	3.14	57.370		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	1.00	-179.95	179.95	176.10	3.85	46.697		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	1.00	-179.95	179.95	175.38	4.57	39.372		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	1.00	-179.95	179.95	174.66	5.29	34.033		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	1.00	-179.95	179.95	173.94	6.00	29.969		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	1.00	-179.95	179.95	173.23	6.72	26.773 CC, ES		
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.72	143.63	1.00	-179.95	181.35	173.93	7.42	24.427		
1,200.00	1,199.84	1,200.16	1,199.84	4.04	4.08	144.54	1.00	-179.95	185.59	177.47	8.12	22.862		
1,300.00	1,299.45	1,300.55	1,299.45	4.39	4.44	145.96	1.00	-179.95	192.76	183.94	8.82	21.859		
1,400.00	1,398.70	1,401.30	1,398.70	4.74	4.80	147.77	1.00	-179.95	202.99	193.46	9.53	21.309		
1,500.00	1,497.47	1,497.47	1,497.47	5.12	5.14	149.83	1.00	-179.95	216.42	206.20	10.22	21.171		
1,600.00	1,595.62	1,597.18	1,597.16	5.51	5.48	151.66	-0.64	-179.89	232.85	221.93	10.92	21.324		
1,700.00	1,693.06	1,696.96	1,696.81	5.94	5.81	152.79	-5.76	-179.70	251.82	240.21	11.61	21.693		
1,800.00	1,789.64	1,796.64	1,796.11	6.39	6.14	153.34	-14.33	-179.39	273.17	260.86	12.31	22.189		
1,863.26	1,850.25	1,859.58	1,858.64	6.70	6.35	153.43	-21.52	-179.12	287.87	275.10	12.77	22.546		
1,900.00	1,885.34	1,896.13	1,894.87	6.89	6.47	153.47	-26.32	-178.95	296.61	283.58	13.03	22.756		
2,000.00	1,980.83	1,995.85	1,993.38	7.41	6.83	153.13	-41.77	-178.38	319.87	306.09	13.78	23.217		
2,100.00	2,076.33	2,106.00	2,089.89	7.95	7.23	152.40	-59.59	-177.73	342.57	327.98	14.59	23.480		
2,200.00	2,171.82	2,208.69	2,185.55	8.50	7.62	151.74	-77.44	-177.08	365.27	349.87	15.40	23.722		
2,300.00	2,267.32	2,288.61	2,281.20	9.07	7.93	151.15	-95.29	-176.43	388.01	371.88	16.14	24.046		
2,400.00	2,362.81	2,385.92	2,376.85	9.64	8.32	150.63	-113.14	-175.78	410.79	393.83	16.96	24.225		
2,500.00	2,458.30	2,483.23	2,472.51	10.22	8.72	150.17	-130.99	-175.13	433.60	415.80	17.79	24.369		
2,600.00	2,553.80	2,580.53	2,568.16	10.81	9.12	149.75	-148.84	-174.48	456.43	437.79	18.64	24.486		
2,700.00	2,649.29	2,677.84	2,663.81	11.41	9.53	149.37	-166.70	-173.82	479.28	459.78	19.50	24.579		
2,800.00	2,744.79	2,775.15	2,759.47	12.01	9.94	149.02	-184.55	-173.17	502.15	481.78	20.37	24.654		
2,900.00	2,840.28	2,872.46	2,855.12	12.61	10.36	148.71	-202.40	-172.52	525.04	503.79	21.24	24.714		
3,000.00	2,935.77	2,969.76	2,950.78	13.22	10.78	148.42	-220.25	-171.87	547.94	525.81	22.13	24.761		
3,100.00	3,031.27	3,067.07	3,046.43	13.83	11.21	148.15	-238.10	-171.22	570.85	547.83	23.02	24.798		
3,200.00	3,126.76	3,164.38	3,142.08	14.44	11.63	147.91	-255.95	-170.57	593.77	569.85	23.92	24.826		
3,300.00	3,222.26	3,261.68	3,237.74	15.06	12.06	147.68	-273.80	-169.92	616.70	591.88	24.82	24.847		
3,400.00	3,317.75	3,358.99	3,333.39	15.68	12.50	147.47	-291.65	-169.26	639.64	613.92	25.73	24.862		
3,500.00	3,413.25	3,456.30	3,429.04	16.30	12.93	147.27	-309.50	-168.61	662.59	635.95	26.64	24.873		
3,600.00	3,508.74	3,553.61	3,524.70	16.92	13.37	147.09	-327.35	-167.96	685.55	657.99	27.56	24.879		
3,700.00	3,604.23	3,650.91	3,620.35	17.54	13.81	146.92	-345.20	-167.31	708.51	680.03	28.47	24.882		
3,800.00	3,699.73	3,748.22	3,716.00	18.17	14.25	146.76	-363.05	-166.66	731.47	702.08	29.40	24.882		
3,900.00	3,795.22	3,845.53	3,811.66	18.79	14.70	146.61	-380.90	-166.01	754.45	724.12	30.32	24.880		
4,000.00	3,890.72	3,942.83	3,907.31	19.42	15.14	146.47	-398.75	-165.35	777.42	746.17	31.25	24.876		
4,100.00	3,986.21	4,040.14	4,002.97	20.05	15.59	146.33	-416.60	-164.70	800.40	768.22	32.18	24.871		
4,200.00	4,081.70	4,137.45	4,098.62	20.67	16.03	146.21	-434.45	-164.05	823.39	790.27	33.12	24.864		
4,300.00	4,177.20	4,234.76	4,194.27	21.30	16.48	146.09	-452.31	-163.40	846.38	812.33	34.05	24.856		
4,400.00	4,272.69	4,332.06	4,289.93	21.93	16.93	145.98	-470.16	-162.75	869.37	834.38	34.99	24.847		
4,500.00	4,368.19	4,429.37	4,385.58	22.56	17.38	145.87	-488.01	-162.10	892.36	856.43	35.93	24.838		
4,600.00	4,463.68	4,526.68	4,481.23	23.19	17.83	145.77	-505.86	-161.44	915.36	878.49	36.87	24.828		
4,700.00	4,559.17	4,623.98	4,576.89	23.83	18.28	145.67	-523.71	-160.79	938.36	900.55	37.81	24.817		
4,800.00	4,654.67	4,721.29	4,672.54	24.46	18.73	145.58	-541.56	-160.14	961.36	922.61	38.75	24.806		
4,900.00	4,750.16	4,818.60	4,768.19	25.09	19.18	145.49	-559.41	-159.49	984.37	944.67	39.70	24.795		
5,000.00	4,845.66	4,915.91	4,863.85	25.72	19.64	145.41	-577.26	-158.84	1,007.37	966.73	40.65	24.784		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,013.21	4,959.50	26.36	20.09	145.33	-595.11	-158.19	1,030.38	988.79	41.59	24.772		
5,200.00	5,036.65	5,110.52	5,055.15	26.99	20.54	145.25	-612.96	-157.54	1,053.39	1,010.85	42.54	24.761		
5,300.00	5,132.14	5,207.83	5,150.81	27.63	21.00	145.18	-630.81	-156.88	1,076.41	1,032.91	43.49	24.749		
5,400.00	5,227.63	5,305.13	5,246.46	28.26	21.46	145.11	-648.66	-156.23	1,099.42	1,054.98	44.44	24.737		
5,500.00	5,323.13	5,402.44	5,342.12	28.90	21.91	145.04	-666.51	-155.58	1,122.43	1,077.04	45.40	24.726		
5,600.00	5,418.62	5,500.25	5,437.77	29.53	22.37	144.97	-684.36	-154.93	1,145.45	1,099.10	46.35	24.713		
5,700.00	5,514.12	5,602.94	5,533.42	30.17	22.85	144.91	-702.21	-154.28	1,168.47	1,121.14	47.33	24.688		
5,800.00	5,609.61	5,705.64	5,629.08	30.80	23.33	144.85	-720.06	-153.63	1,191.49	1,143.18	48.31	24.664		
5,900.00	5,705.10	5,808.33	5,724.73	31.44	23.82	144.80	-737.92	-152.97	1,214.51	1,165.22	49.29	24.641		
6,000.00	5,800.60	5,888.98	5,820.38	32.08	24.20	144.74	-755.77	-152.32	1,237.53	1,187.36	50.17	24.669		
6,100.00	5,896.09	5,986.28	5,916.04	32.71	24.65	144.69	-773.62	-151.67	1,260.55	1,209.43	51.12	24.657		
6,200.00	5,991.59	6,083.59	6,011.69	33.35	25.11	144.64	-791.47	-151.02	1,283.58	1,231.50	52.08	24.646		
6,300.00	6,087.08	6,180.90	6,107.34	33.99	25.57	144.59	-809.32	-150.37	1,306.60	1,253.56	53.04	24.636		
6,400.00	6,182.57	6,278.21	6,203.00	34.62	26.03	144.54	-827.17	-149.72	1,329.63	1,275.63	54.00	24.625		
6,499.99	6,278.06	6,375.50	6,298.64	35.26	26.49	144.49	-845.02	-149.06	1,352.65	1,297.70	54.95	24.614		
6,505.95	6,283.75	6,381.30	6,304.34	35.30	26.51	144.49	-846.08	-149.03	1,354.02	1,299.01	55.01	24.614		
6,600.00	6,374.00	6,473.08	6,394.56	35.88	26.95	144.65	-862.92	-148.41	1,374.46	1,318.54	55.91	24.583		
6,700.00	6,470.87	6,571.17	6,490.99	36.44	27.41	144.71	-880.91	-147.75	1,393.48	1,336.62	56.86	24.507		
6,800.00	6,568.53	6,669.66	6,587.80	36.96	27.88	144.66	-898.98	-147.10	1,409.72	1,351.92	57.81	24.387		
6,900.00	6,666.89	6,768.44	6,684.90	37.43	28.34	144.49	-917.10	-146.43	1,423.18	1,364.44	58.74	24.228		
7,000.00	6,765.82	6,867.37	6,782.15	37.85	28.81	144.22	-935.25	-145.77	1,433.87	1,374.20	59.67	24.030		
7,100.00	6,865.19	6,966.07	6,879.17	38.22	29.28	143.85	-953.34	-145.11	1,441.83	1,381.25	60.58	23.799		
7,200.00	6,964.89	7,062.79	6,974.59	38.55	29.71	143.46	-969.13	-144.53	1,447.18	1,385.75	61.44	23.556		
7,300.00	7,064.80	7,160.13	7,071.10	38.83	30.12	143.09	-981.77	-144.07	1,449.97	1,387.74	62.23	23.301		
7,369.20	7,134.00	7,227.79	7,138.41	39.00	30.39	-90.15	-988.62	-143.82	1,450.39	1,387.65	62.73	23.120		
7,400.00	7,164.80	7,257.97	7,168.48	39.06	30.51	-90.25	-991.16	-143.73	1,450.30	1,387.36	62.94	23.041		
7,469.20	7,234.00	7,325.97	7,236.33	39.22	30.75	-90.43	-995.73	-143.56	1,450.16	1,386.76	63.40	22.873		
7,500.00	7,264.78	7,356.31	7,266.63	39.29	30.86	89.89	-997.25	-143.51	1,450.11	1,386.51	63.60	22.802		
7,550.00	7,314.53	7,405.47	7,315.75	39.44	31.02	90.01	-999.03	-143.44	1,450.05	1,386.14	63.91	22.688		
7,579.57	7,343.68	7,434.26	7,344.54	39.54	31.11	90.18	-999.68	-143.42	1,450.04	1,385.95	64.09	22.626		
7,600.00	7,363.66	7,453.95	7,364.23	39.62	31.17	90.33	-999.96	-143.41	1,450.05	1,385.85	64.20	22.586		
7,650.00	7,411.81	7,501.53	7,411.81	39.82	31.31	90.81	-1,000.13	-143.40	1,450.18	1,385.71	64.48	22.492		
7,700.00	7,458.61	7,548.33	7,458.61	40.06	31.44	91.42	-1,000.13	-143.40	1,450.55	1,385.81	64.74	22.406		
7,750.00	7,503.69	7,594.44	7,504.72	40.32	31.56	92.13	-1,000.21	-143.40	1,451.29	1,386.29	65.00	22.327		
7,800.00	7,546.72	7,645.36	7,555.53	40.60	31.75	92.94	-1,003.33	-143.38	1,452.42	1,387.06	65.36	22.222		
7,850.00	7,587.38	7,698.80	7,608.33	40.92	31.98	93.74	-1,011.45	-143.34	1,453.89	1,388.08	65.82	22.091		
7,900.00	7,625.34	7,755.11	7,662.89	41.25	32.28	94.54	-1,025.27	-143.25	1,455.68	1,389.30	66.38	21.928		
7,950.00	7,660.33	7,814.66	7,718.82	41.61	32.65	95.35	-1,045.65	-143.13	1,457.75	1,390.67	67.07	21.734		
8,000.00	7,692.07	7,877.85	7,775.51	42.00	33.09	96.14	-1,073.48	-142.97	1,460.02	1,392.13	67.89	21.504		
8,050.00	7,720.33	7,945.05	7,832.04	42.40	33.62	96.92	-1,109.73	-142.75	1,462.43	1,393.57	68.86	21.239		
8,100.00	7,744.89	8,016.58	7,887.12	42.83	34.25	97.68	-1,155.30	-142.48	1,464.87	1,394.89	69.98	20.933		
8,150.00	7,765.56	8,092.64	7,938.97	43.27	34.98	98.39	-1,210.88	-142.16	1,467.22	1,395.95	71.27	20.586		
8,200.00	7,782.18	8,173.21	7,985.35	43.74	35.83	99.02	-1,276.67	-141.77	1,469.37	1,396.62	72.75	20.198		
8,250.00	7,794.63	8,257.98	8,023.70	44.22	36.78	99.55	-1,352.19	-141.32	1,471.16	1,396.76	74.40	19.773		
8,300.00	7,802.82	8,346.27	8,051.34	44.71	37.82	99.94	-1,435.94	-140.82	1,472.49	1,396.26	76.23	19.316		
8,350.00	7,806.68	8,436.98	8,066.01	45.21	38.93	100.16	-1,525.37	-140.30	1,473.24	1,395.04	78.20	18.840		
8,369.28	7,807.00	8,472.32	8,067.86	45.40	39.36	100.20	-1,560.65	-140.09	1,473.36	1,394.38	78.98	18.655		
8,400.00	7,807.00	8,508.73	8,068.00	45.72	39.81	100.20	-1,597.06	-139.87	1,473.38	1,393.55	79.83	18.457		
8,500.00	7,807.00	8,608.73	8,068.00	46.77	41.07	100.20	-1,697.05	-139.28	1,473.39	1,391.13	82.26	17.911		
8,600.00	7,807.00	8,708.73	8,067.99	47.86	42.37	100.20	-1,797.05	-138.69	1,473.40	1,388.63	84.77	17.382		
8,700.00	7,807.00	8,808.73	8,067.99	48.99	43.70	100.20	-1,897.05	-138.10	1,473.41	1,386.07	87.34	16.869		
8,800.00	7,806.99	8,908.73	8,067.99	50.16	45.06	100.20	-1,997.05	-137.50	1,473.42	1,383.44	89.98	16.375		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	9,008.73	8,067.99	51.37	46.45	100.20	-2,097.05	-136.91	1,473.43	1,380.75	92.68	15.898		
9,000.00	7,806.99	9,108.73	8,067.98	52.60	47.87	100.20	-2,197.04	-136.32	1,473.44	1,378.01	95.42	15.441		
9,100.00	7,806.99	9,208.73	8,067.98	53.87	49.31	100.20	-2,297.04	-135.73	1,473.45	1,375.23	98.22	15.001		
9,200.00	7,806.99	9,308.73	8,067.98	55.17	50.77	100.20	-2,397.04	-135.14	1,473.46	1,372.40	101.06	14.580		
9,300.00	7,806.99	9,408.73	8,067.98	56.49	52.25	100.20	-2,497.04	-134.55	1,473.47	1,369.53	103.94	14.176		
9,400.00	7,806.99	9,508.73	8,067.97	57.83	53.74	100.20	-2,597.04	-133.95	1,473.48	1,366.62	106.86	13.789		
9,500.00	7,806.99	9,608.73	8,067.97	59.20	55.26	100.20	-2,697.04	-133.36	1,473.49	1,363.68	109.81	13.419		
9,600.00	7,806.98	9,708.73	8,067.97	60.59	56.78	100.20	-2,797.03	-132.77	1,473.49	1,360.70	112.79	13.064		
9,700.00	7,806.98	9,808.73	8,067.97	62.00	58.33	100.20	-2,897.03	-132.18	1,473.50	1,357.70	115.80	12.724		
9,800.00	7,806.98	9,908.73	8,067.96	63.43	59.88	100.20	-2,997.03	-131.59	1,473.51	1,354.67	118.84	12.399		
9,900.00	7,806.98	10,008.73	8,067.96	64.87	61.45	100.20	-3,097.03	-131.00	1,473.52	1,351.62	121.91	12.087		
10,000.00	7,806.98	10,108.73	8,067.96	66.34	63.03	100.20	-3,197.03	-130.40	1,473.53	1,348.54	124.99	11.789		
10,100.00	7,806.98	10,208.73	8,067.96	67.81	64.61	100.20	-3,297.03	-129.81	1,473.54	1,345.44	128.10	11.503		
10,200.00	7,806.98	10,308.73	8,067.95	69.30	66.21	100.20	-3,397.02	-129.22	1,473.55	1,342.32	131.23	11.229		
10,300.00	7,806.98	10,408.73	8,067.95	70.81	67.82	100.20	-3,497.02	-128.63	1,473.56	1,339.19	134.37	10.966		
10,400.00	7,806.97	10,508.73	8,067.95	72.32	69.43	100.20	-3,597.02	-128.04	1,473.57	1,336.03	137.54	10.714		
10,500.00	7,806.97	10,608.73	8,067.95	73.85	71.05	100.20	-3,697.02	-127.44	1,473.58	1,332.86	140.72	10.472		
10,600.00	7,806.97	10,708.73	8,067.94	75.39	72.68	100.20	-3,797.02	-126.85	1,473.59	1,329.68	143.91	10.240		
10,700.00	7,806.97	10,808.73	8,067.94	76.94	74.32	100.20	-3,897.02	-126.26	1,473.60	1,326.48	147.12	10.016		
10,800.00	7,806.97	10,908.73	8,067.94	78.49	75.96	100.20	-3,997.01	-125.67	1,473.61	1,323.27	150.34	9.802		
10,900.00	7,806.97	11,008.73	8,067.94	80.06	77.61	100.20	-4,097.01	-125.08	1,473.62	1,320.05	153.57	9.596		
11,000.00	7,806.97	11,108.73	8,067.93	81.64	79.26	100.20	-4,197.01	-124.49	1,473.63	1,316.81	156.82	9.397		
11,100.00	7,806.97	11,208.73	8,067.93	83.22	80.92	100.20	-4,297.01	-123.89	1,473.64	1,313.56	160.07	9.206		
11,200.00	7,806.96	11,308.73	8,067.93	84.81	82.58	100.20	-4,397.01	-123.30	1,473.65	1,310.31	163.34	9.022		
11,300.00	7,806.96	11,408.73	8,067.93	86.41	84.25	100.20	-4,497.00	-122.71	1,473.66	1,307.04	166.62	8.845		
11,400.00	7,806.96	11,508.73	8,067.92	88.01	85.92	100.20	-4,597.00	-122.12	1,473.67	1,303.77	169.90	8.674		
11,500.00	7,806.96	11,608.73	8,067.92	89.63	87.59	100.20	-4,697.00	-121.53	1,473.68	1,300.48	173.19	8.509		
11,600.00	7,806.96	11,708.73	8,067.92	91.24	89.27	100.20	-4,797.00	-120.94	1,473.69	1,297.19	176.50	8.350		
11,700.00	7,806.96	11,808.73	8,067.92	92.87	90.96	100.20	-4,897.00	-120.34	1,473.69	1,293.89	179.80	8.196		
11,800.00	7,806.96	11,908.73	8,067.91	94.49	92.64	100.20	-4,997.00	-119.75	1,473.70	1,290.58	183.12	8.048		
11,900.00	7,806.95	12,008.73	8,067.91	96.13	94.33	100.20	-5,096.99	-119.16	1,473.71	1,287.27	186.44	7.904		
12,000.00	7,806.95	12,108.73	8,067.91	97.77	96.02	100.20	-5,196.99	-118.57	1,473.72	1,283.95	189.77	7.766		
12,100.00	7,806.95	12,208.73	8,067.91	99.41	97.72	100.20	-5,296.99	-117.98	1,473.73	1,280.63	193.11	7.632		
12,200.00	7,806.95	12,308.73	8,067.90	101.06	99.42	100.20	-5,396.99	-117.39	1,473.74	1,277.29	196.45	7.502		
12,300.00	7,806.95	12,408.73	8,067.90	102.71	101.12	100.20	-5,496.99	-116.79	1,473.75	1,273.96	199.80	7.376		
12,400.00	7,806.95	12,508.73	8,067.90	104.37	102.82	100.20	-5,596.99	-116.20	1,473.76	1,270.61	203.15	7.255		
12,500.00	7,806.95	12,608.73	8,067.90	106.02	104.53	100.20	-5,696.98	-115.61	1,473.77	1,267.27	206.50	7.137		
12,600.00	7,806.95	12,708.73	8,067.89	107.69	106.23	100.20	-5,796.98	-115.02	1,473.78	1,263.91	209.87	7.022		
12,700.00	7,806.94	12,808.73	8,067.89	109.35	107.94	100.20	-5,896.98	-114.43	1,473.79	1,260.56	213.23	6.912		
12,800.00	7,806.94	12,908.73	8,067.89	111.02	109.66	100.20	-5,996.98	-113.84	1,473.80	1,257.20	216.60	6.804		
12,900.00	7,806.94	13,008.73	8,067.89	112.70	111.37	100.20	-6,096.98	-113.24	1,473.81	1,253.83	219.98	6.700		
13,000.00	7,806.94	13,108.73	8,067.88	114.37	113.08	100.20	-6,196.97	-112.65	1,473.82	1,250.46	223.36	6.599		
13,100.00	7,806.94	13,208.73	8,067.88	116.05	114.80	100.20	-6,296.97	-112.06	1,473.83	1,247.09	226.74	6.500		
13,200.00	7,806.94	13,308.73	8,067.88	117.74	116.52	100.20	-6,396.97	-111.47	1,473.84	1,243.71	230.12	6.405		
13,300.00	7,806.94	13,408.73	8,067.88	119.42	118.24	100.20	-6,496.97	-110.88	1,473.85	1,240.34	233.51	6.312		
13,400.00	7,806.94	13,508.73	8,067.87	121.11	119.96	100.20	-6,596.97	-110.29	1,473.86	1,236.95	236.90	6.221		
13,500.00	7,806.93	13,608.73	8,067.87	122.80	121.69	100.20	-6,696.97	-109.69	1,473.87	1,233.57	240.30	6.133		
13,600.00	7,806.93	13,708.73	8,067.87	124.49	123.41	100.20	-6,796.96	-109.10	1,473.88	1,230.18	243.70	6.048		
13,700.00	7,806.93	13,808.73	8,067.87	126.18	125.14	100.20	-6,896.96	-108.51	1,473.89	1,226.79	247.10	5.965		
13,800.00	7,806.93	13,908.73	8,067.86	127.88	126.87	100.20	-6,996.96	-107.92	1,473.90	1,223.39	250.50	5.884		
13,900.00	7,806.93	14,008.73	8,067.86	129.58	128.60	100.20	-7,096.96	-107.33	1,473.90	1,219.99	253.91	5.805		
14,000.00	7,806.93	14,108.73	8,067.86	131.28	130.33	100.20	-7,196.96	-106.73	1,473.91	1,216.59	257.32	5.728		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 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
14,100.00	7,806.93	14,208.73	8,067.86	132.98	132.06	100.20	-7,296.96	-106.14	1,473.92	1,213.19	260.73	5.653	
14,200.00	7,806.93	14,308.73	8,067.85	134.68	133.79	100.20	-7,396.95	-105.55	1,473.93	1,209.79	264.15	5.580	
14,300.00	7,806.92	14,408.73	8,067.85	136.39	135.52	100.20	-7,496.95	-104.96	1,473.94	1,206.38	267.56	5.509	
14,400.00	7,806.92	14,508.73	8,067.85	138.10	137.26	100.20	-7,596.95	-104.37	1,473.95	1,202.97	270.98	5.439	
14,500.00	7,806.92	14,608.73	8,067.85	139.81	138.99	100.20	-7,696.95	-103.78	1,473.96	1,199.56	274.40	5.372	
14,600.00	7,806.92	14,708.73	8,067.84	141.52	140.73	100.20	-7,796.95	-103.18	1,473.97	1,196.15	277.83	5.305	
14,700.00	7,806.92	14,808.73	8,067.84	143.23	142.47	100.20	-7,896.95	-102.59	1,473.98	1,192.73	281.25	5.241	
14,800.00	7,806.92	14,908.73	8,067.84	144.94	144.20	100.20	-7,996.94	-102.00	1,473.99	1,189.31	284.68	5.178	
14,900.00	7,806.92	15,008.73	8,067.84	146.66	145.94	100.20	-8,096.94	-101.41	1,474.00	1,185.89	288.11	5.116	
15,000.00	7,806.92	15,108.73	8,067.83	148.37	147.68	100.20	-8,196.94	-100.82	1,474.01	1,182.47	291.54	5.056	
15,100.00	7,806.91	15,208.73	8,067.83	150.09	149.42	100.20	-8,296.94	-100.23	1,474.02	1,179.05	294.97	4.997	
15,200.00	7,806.91	15,308.73	8,067.83	151.81	151.17	100.20	-8,396.94	-99.63	1,474.03	1,175.63	298.40	4.940	
15,300.00	7,806.91	15,408.73	8,067.83	153.53	152.91	100.20	-8,496.93	-99.04	1,474.04	1,172.20	301.84	4.884	
15,400.00	7,806.91	15,508.73	8,067.82	155.25	154.65	100.20	-8,596.93	-98.45	1,474.05	1,168.78	305.27	4.829	
15,500.00	7,806.91	15,608.73	8,067.82	156.97	156.39	100.20	-8,696.93	-97.86	1,474.06	1,165.35	308.71	4.775	
15,600.00	7,806.91	15,708.73	8,067.82	158.70	158.14	100.20	-8,796.93	-97.27	1,474.07	1,161.92	312.15	4.722	
15,700.00	7,806.91	15,808.73	8,067.82	160.42	159.88	100.20	-8,896.93	-96.68	1,474.08	1,158.49	315.59	4.671	
15,800.00	7,806.91	15,908.73	8,067.81	162.15	161.63	100.19	-8,996.93	-96.08	1,474.09	1,155.05	319.03	4.620	
15,900.00	7,806.90	16,008.73	8,067.81	163.88	163.37	100.19	-9,096.92	-95.49	1,474.10	1,151.62	322.48	4.571	
16,000.00	7,806.90	16,108.73	8,067.81	165.60	165.12	100.19	-9,196.92	-94.90	1,474.11	1,148.18	325.92	4.523	
16,100.00	7,806.90	16,208.73	8,067.81	167.33	166.87	100.19	-9,296.92	-94.31	1,474.11	1,144.75	329.37	4.476	
16,200.00	7,806.90	16,308.73	8,067.80	169.06	168.62	100.19	-9,396.92	-93.72	1,474.12	1,141.31	332.81	4.429	
16,300.00	7,806.90	16,408.73	8,067.80	170.79	170.36	100.19	-9,496.92	-93.13	1,474.13	1,137.87	336.26	4.384	
16,400.00	7,806.90	16,508.73	8,067.80	172.52	172.11	100.19	-9,596.92	-92.53	1,474.14	1,134.43	339.71	4.339	
16,500.00	7,806.90	16,608.73	8,067.80	174.26	173.86	100.19	-9,696.91	-91.94	1,474.15	1,130.99	343.16	4.296	
16,600.00	7,806.89	16,708.73	8,067.79	175.99	175.61	100.19	-9,796.91	-91.35	1,474.16	1,127.55	346.61	4.253	
16,700.00	7,806.89	16,808.73	8,067.79	177.72	177.36	100.19	-9,896.91	-90.76	1,474.17	1,124.11	350.07	4.211	
16,800.00	7,806.89	16,908.73	8,067.79	179.46	179.11	100.19	-9,996.91	-90.17	1,474.18	1,120.66	353.52	4.170	
16,900.00	7,806.89	17,008.73	8,067.79	181.19	180.86	100.19	-10,096.91	-89.58	1,474.19	1,117.22	356.97	4.130	
17,000.00	7,806.89	17,108.73	8,067.78	182.93	182.62	100.19	-10,196.90	-88.98	1,474.20	1,113.77	360.43	4.090	
17,100.00	7,806.89	17,208.73	8,067.78	184.67	184.37	100.19	-10,296.90	-88.39	1,474.21	1,110.32	363.89	4.051	
17,200.00	7,806.89	17,308.73	8,067.78	186.40	186.12	100.19	-10,396.90	-87.80	1,474.22	1,106.88	367.34	4.013	
17,300.00	7,806.89	17,408.73	8,067.78	188.14	187.87	100.19	-10,496.90	-87.21	1,474.23	1,103.43	370.80	3.976	
17,400.00	7,806.88	17,508.73	8,067.77	189.88	189.63	100.19	-10,596.90	-86.62	1,474.24	1,099.98	374.26	3.939	
17,500.00	7,806.88	17,608.73	8,067.77	191.62	191.38	100.19	-10,696.90	-86.02	1,474.25	1,096.53	377.72	3.903	
17,600.00	7,806.88	17,708.73	8,067.77	193.36	193.13	100.19	-10,796.89	-85.43	1,474.26	1,093.08	381.18	3.868	
17,700.00	7,806.88	17,808.73	8,067.77	195.10	194.89	100.19	-10,896.89	-84.84	1,474.27	1,089.63	384.64	3.833	
17,800.00	7,806.88	17,908.73	8,067.76	196.84	196.64	100.19	-10,996.89	-84.25	1,474.28	1,086.18	388.10	3.799	
17,900.00	7,806.88	18,008.73	8,067.76	198.58	198.40	100.19	-11,096.89	-83.66	1,474.29	1,082.72	391.56	3.765	
18,000.00	7,806.88	18,115.08	8,067.91	200.33	200.26	100.20	-11,203.23	-82.94	1,474.24	1,079.03	395.21	3.730	
18,024.73	7,806.88	18,124.67	8,068.00	200.76	200.43	100.20	-11,212.82	-82.82	1,474.22	1,078.62	395.60	3.727	
18,027.46	7,807.00	18,124.67	8,068.00	200.80	200.43	100.20	-11,212.82	-82.82	1,473.95	1,078.35	395.60	3.726 SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	0.80	-143.96	143.96					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.80	-143.96	143.96	143.69	0.27	535.450		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.80	-143.96	143.96	142.97	0.99	146.032		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.80	-143.96	143.96	142.26	1.70	84.545		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.80	-143.96	143.96	141.54	2.42	59.494		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.80	-143.96	143.96	140.82	3.14	45.896		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.80	-143.96	143.96	140.10	3.85	37.357		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.80	-143.96	143.96	139.39	4.57	31.497		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.80	-143.96	143.96	138.67	5.29	27.226		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.80	-143.96	143.96	137.95	6.00	23.975		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.80	-143.96	143.96	137.24	6.72	21.418	CC, ES	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.72	143.71	0.80	-143.96	145.36	137.94	7.42	19.579		
1,200.00	1,199.84	1,200.16	1,199.84	4.04	4.08	144.85	0.80	-143.96	149.61	141.49	8.12	18.429		
1,300.00	1,299.45	1,300.55	1,299.45	4.39	4.44	146.60	0.80	-143.96	156.82	148.00	8.82	17.784		
1,400.00	1,398.70	1,398.70	1,398.70	4.74	4.79	148.79	0.80	-143.96	167.15	157.63	9.52	17.564		
1,500.00	1,497.47	1,500.08	1,500.06	5.12	5.14	150.78	-0.88	-143.47	180.03	169.82	10.21	17.629		
1,600.00	1,595.62	1,601.72	1,601.55	5.51	5.47	152.01	-6.01	-141.97	194.65	183.75	10.90	17.859		
1,700.00	1,693.06	1,703.53	1,702.96	5.94	5.81	152.60	-14.62	-139.46	210.86	199.26	11.60	18.178		
1,800.00	1,789.64	1,805.43	1,804.08	6.39	6.16	152.67	-26.70	-135.94	228.58	216.26	12.32	18.557		
1,863.26	1,850.25	1,869.90	1,867.80	6.70	6.38	152.49	-36.12	-133.20	240.56	227.77	12.79	18.811		
1,900.00	1,885.34	1,907.39	1,904.74	6.89	6.52	152.35	-42.22	-131.42	247.58	234.52	13.06	18.954		
2,000.00	1,980.83	2,008.07	2,003.57	7.41	6.90	151.61	-60.67	-126.05	265.78	251.94	13.83	19.211		
2,100.00	2,076.33	2,106.38	2,099.95	7.95	7.28	150.86	-79.30	-120.62	283.74	269.11	14.63	19.397		
2,200.00	2,171.82	2,204.69	2,196.32	8.50	7.67	150.19	-97.93	-115.19	301.75	286.30	15.44	19.538		
2,300.00	2,267.32	2,303.00	2,292.70	9.07	8.08	149.60	-116.55	-109.77	319.79	303.51	16.28	19.645		
2,400.00	2,362.81	2,401.31	2,389.07	9.64	8.49	149.08	-135.18	-104.34	337.86	320.73	17.13	19.725		
2,500.00	2,458.30	2,500.38	2,485.45	10.22	8.92	148.61	-153.81	-98.92	355.95	337.96	18.00	19.780		
2,600.00	2,553.80	2,602.07	2,581.82	10.81	9.36	148.18	-172.43	-93.49	374.07	355.18	18.89	19.806		
2,700.00	2,649.29	2,703.77	2,678.20	11.41	9.81	147.79	-191.06	-88.06	392.20	372.41	19.79	19.819		
2,800.00	2,744.79	2,805.46	2,774.57	12.01	10.26	147.44	-209.69	-82.64	410.35	389.65	20.70	19.822		
2,900.00	2,840.28	2,907.15	2,870.95	12.61	10.72	147.11	-228.31	-77.21	428.52	406.89	21.62	19.818		
3,000.00	2,935.77	3,008.84	2,967.33	13.22	11.18	146.82	-246.94	-71.78	446.69	424.14	22.55	19.808		
3,100.00	3,031.27	3,089.47	3,063.70	13.83	11.55	146.54	-265.56	-66.36	464.88	441.49	23.39	19.873		
3,200.00	3,126.76	3,187.78	3,160.08	14.44	12.00	146.29	-284.19	-60.93	483.08	458.76	24.32	19.865		
3,300.00	3,222.26	3,286.09	3,256.45	15.06	12.45	146.06	-302.82	-55.51	501.28	476.03	25.25	19.853		
3,400.00	3,317.75	3,384.40	3,352.83	15.68	12.91	145.84	-321.44	-50.08	519.49	493.31	26.19	19.839		
3,500.00	3,413.25	3,482.71	3,449.20	16.30	13.37	145.63	-340.07	-44.65	537.71	510.59	27.13	19.823		
3,600.00	3,508.74	3,581.02	3,545.58	16.92	13.83	145.44	-358.70	-39.23	555.94	527.87	28.07	19.805		
3,700.00	3,604.23	3,679.32	3,641.96	17.54	14.29	145.27	-377.32	-33.80	574.17	545.15	29.02	19.787		
3,800.00	3,699.73	3,777.63	3,738.33	18.17	14.76	145.10	-395.95	-28.37	592.40	562.43	29.97	19.767		
3,900.00	3,795.22	3,875.94	3,834.71	18.79	15.22	144.94	-414.58	-22.95	610.64	579.72	30.92	19.747		
4,000.00	3,890.72	3,974.25	3,931.08	19.42	15.69	144.79	-433.20	-17.52	628.89	597.01	31.88	19.727		
4,100.00	3,986.21	4,072.56	4,027.46	20.05	16.16	144.65	-451.83	-12.10	647.14	614.30	32.84	19.706		
4,200.00	4,081.70	4,170.87	4,123.83	20.67	16.63	144.52	-470.45	-6.67	665.39	631.59	33.80	19.686		
4,300.00	4,177.20	4,269.18	4,220.21	21.30	17.10	144.40	-489.08	-1.24	683.64	648.88	34.76	19.665		
4,400.00	4,272.69	4,367.49	4,316.59	21.93	17.57	144.28	-507.71	4.18	701.90	666.17	35.73	19.645		
4,500.00	4,368.19	4,465.80	4,412.96	22.56	18.04	144.16	-526.33	9.61	720.16	683.46	36.70	19.625		
4,600.00	4,463.68	4,564.11	4,509.34	23.19	18.51	144.06	-544.96	15.04	738.42	700.76	37.67	19.605		
4,700.00	4,559.17	4,662.41	4,605.71	23.83	18.99	143.96	-563.59	20.46	756.69	718.05	38.64	19.585		
4,800.00	4,654.67	4,760.72	4,702.09	24.46	19.46	143.86	-582.21	25.89	774.96	735.35	39.61	19.565		
4,900.00	4,750.16	4,859.03	4,798.46	25.09	19.94	143.77	-600.84	31.31	793.23	752.65	40.58	19.546		
5,000.00	4,845.66	4,957.34	4,894.84	25.72	20.41	143.68	-619.47	36.74	811.50	769.94	41.56	19.528		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,055.65	4,991.22	26.36	20.89	143.59	-638.09	42.17	829.77	787.24	42.53	19.509		
5,200.00	5,036.65	5,153.96	5,087.59	26.99	21.36	143.51	-656.72	47.59	848.05	804.54	43.51	19.491		
5,300.00	5,132.14	5,252.27	5,183.97	27.63	21.84	143.44	-675.34	53.02	866.33	821.84	44.49	19.474		
5,400.00	5,227.63	5,350.58	5,280.34	28.26	22.32	143.36	-693.97	58.45	884.60	839.14	45.47	19.456		
5,500.00	5,323.13	5,448.89	5,376.72	28.90	22.79	143.29	-712.60	63.87	902.88	856.44	46.45	19.439		
5,600.00	5,418.62	5,547.20	5,473.09	29.53	23.27	143.22	-731.22	69.30	921.16	873.74	47.43	19.423		
5,700.00	5,514.12	5,645.50	5,569.47	30.17	23.75	143.16	-749.85	74.72	939.45	891.04	48.41	19.407		
5,800.00	5,609.61	5,743.81	5,665.85	30.80	24.23	143.09	-768.48	80.15	957.73	908.34	49.39	19.391		
5,900.00	5,705.10	5,842.12	5,762.22	31.44	24.71	143.03	-787.10	85.58	976.01	925.64	50.37	19.376		
6,000.00	5,800.60	5,940.43	5,858.60	32.08	25.19	142.97	-805.73	91.00	994.30	942.94	51.36	19.361		
6,100.00	5,896.09	6,038.74	5,954.97	32.71	25.67	142.92	-824.36	96.43	1,012.59	960.25	52.34	19.346		
6,200.00	5,991.59	6,137.05	6,051.35	33.35	26.15	142.86	-842.98	101.86	1,030.87	977.55	53.33	19.332		
6,300.00	6,087.08	6,235.36	6,147.72	33.99	26.63	142.81	-861.61	107.28	1,049.16	994.85	54.31	19.318		
6,400.00	6,182.57	6,333.67	6,244.10	34.62	27.11	142.76	-880.23	112.71	1,067.45	1,012.15	55.30	19.304		
6,499.99	6,278.06	6,431.96	6,340.46	35.26	27.59	142.71	-898.86	118.13	1,085.74	1,029.46	56.28	19.291		
6,505.95	6,283.75	6,437.82	6,346.21	35.30	27.62	142.71	-899.97	118.46	1,086.83	1,030.49	56.34	19.290		
6,600.00	6,374.00	6,530.48	6,437.05	35.88	28.07	142.81	-917.52	123.57	1,102.82	1,045.55	57.27	19.256		
6,700.00	6,470.87	6,629.37	6,533.99	36.44	28.55	142.78	-936.26	129.03	1,117.17	1,058.91	58.26	19.176		
6,800.00	6,568.53	6,722.14	6,625.04	36.96	29.00	142.67	-953.29	133.99	1,128.97	1,069.79	59.17	19.079		
6,900.00	6,666.89	6,811.63	6,713.34	37.43	29.41	142.58	-967.24	138.05	1,138.84	1,078.83	60.01	18.978		
7,000.00	6,765.82	6,901.35	6,802.28	37.85	29.79	142.50	-978.55	141.35	1,146.84	1,086.06	60.78	18.869		
7,100.00	6,865.19	6,991.26	6,891.73	38.22	30.14	142.45	-987.20	143.87	1,152.94	1,091.45	61.48	18.752		
7,200.00	6,964.89	7,081.30	6,981.55	38.55	30.46	142.41	-993.15	145.60	1,157.13	1,095.01	62.12	18.626		
7,300.00	7,064.80	7,171.42	7,071.61	38.83	30.76	142.39	-996.40	146.55	1,159.42	1,096.72	62.70	18.491		
7,369.20	7,134.00	7,233.81	7,134.00	39.00	30.95	-90.61	-997.05	146.74	1,159.88	1,096.82	63.06	18.394		
7,400.00	7,164.80	7,264.61	7,164.80	39.06	31.03	-90.61	-997.05	146.74	1,159.88	1,096.66	63.22	18.348		
7,446.14	7,210.93	7,310.75	7,210.93	39.17	31.15	-90.61	-997.05	146.74	1,159.88	1,096.42	63.46	18.278		
7,469.20	7,234.00	7,333.81	7,234.00	39.22	31.21	-90.61	-997.05	146.74	1,159.88	1,096.30	63.58	18.243		
7,500.00	7,264.78	7,364.32	7,264.49	39.29	31.31	89.74	-997.86	146.74	1,159.88	1,096.11	63.76	18.190		
7,550.00	7,314.53	7,413.86	7,313.78	39.44	31.50	89.74	-1,002.63	146.77	1,159.88	1,095.75	64.13	18.087		
7,600.00	7,363.66	7,463.40	7,362.48	39.62	31.73	89.74	-1,011.64	146.83	1,159.88	1,095.31	64.57	17.964		
7,650.00	7,411.81	7,512.94	7,410.23	39.82	32.00	89.75	-1,024.82	146.90	1,159.88	1,094.80	65.08	17.823		
7,700.00	7,458.61	7,562.51	7,456.67	40.06	32.30	89.76	-1,042.08	147.01	1,159.88	1,094.22	65.66	17.665		
7,750.00	7,503.69	7,612.08	7,501.46	40.32	32.64	89.77	-1,063.30	147.13	1,159.88	1,093.57	66.31	17.491		
7,800.00	7,546.72	7,661.68	7,544.26	40.60	33.01	89.78	-1,088.32	147.28	1,159.88	1,092.85	67.03	17.304		
7,850.00	7,587.38	7,711.30	7,584.76	40.92	33.42	89.79	-1,116.95	147.45	1,159.88	1,092.07	67.81	17.105		
7,900.00	7,625.34	7,760.94	7,622.65	41.25	33.86	89.81	-1,149.00	147.64	1,159.88	1,091.23	68.66	16.894		
7,950.00	7,660.33	7,810.61	7,657.65	41.61	34.32	89.82	-1,184.23	147.85	1,159.88	1,090.32	69.56	16.675		
8,000.00	7,692.07	7,860.31	7,689.48	42.00	34.82	89.84	-1,222.38	148.08	1,159.89	1,089.37	70.52	16.448		
8,050.00	7,720.33	7,910.04	7,717.90	42.40	35.34	89.86	-1,263.17	148.32	1,159.89	1,088.36	71.53	16.215		
8,100.00	7,744.89	7,959.80	7,742.69	42.83	35.89	89.88	-1,306.30	148.57	1,159.89	1,087.30	72.59	15.978		
8,150.00	7,765.56	8,009.61	7,763.67	43.27	36.46	89.90	-1,351.45	148.84	1,159.89	1,086.20	73.69	15.740		
8,200.00	7,782.18	8,059.45	7,780.65	43.74	37.04	89.92	-1,398.29	149.12	1,159.90	1,085.07	74.83	15.501		
8,250.00	7,794.63	8,109.32	7,793.52	44.22	37.64	89.94	-1,446.46	149.41	1,159.90	1,083.91	75.99	15.263		
8,300.00	7,802.82	8,159.24	7,802.15	44.71	38.25	89.97	-1,495.61	149.70	1,159.90	1,082.72	77.18	15.028		
8,350.00	7,806.68	8,209.20	7,806.47	45.21	38.87	89.99	-1,545.37	149.99	1,159.91	1,081.53	78.38	14.799		
8,369.28	7,807.00	8,239.31	7,807.00	45.40	39.24	90.00	-1,564.63	150.11	1,159.91	1,080.93	78.98	14.687		
8,400.00	7,807.00	8,259.20	7,807.00	45.72	39.49	90.00	-1,595.36	150.29	1,159.91	1,080.33	79.58	14.575		
8,500.00	7,807.00	8,359.20	7,807.00	46.77	40.76	90.00	-1,695.35	150.88	1,159.92	1,077.86	82.06	14.136		
8,600.00	7,807.00	8,459.20	7,806.99	47.86	42.07	90.00	-1,795.35	151.48	1,159.93	1,075.33	84.60	13.711		
8,700.00	7,807.00	8,559.20	7,806.99	48.99	43.40	90.00	-1,895.35	152.07	1,159.94	1,072.72	87.22	13.300		
8,800.00	7,806.99	8,659.20	7,806.99	50.16	44.77	90.00	-1,995.35	152.67	1,159.94	1,070.05	89.90	12.903		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	8,759.20	7,806.99	51.37	46.17	90.00	-2,095.35	153.26	1,159.95	1,067.32	92.63	12.522				
9,000.00	7,806.99	8,859.20	7,806.98	52.60	47.59	90.00	-2,195.34	153.85	1,159.96	1,064.54	95.42	12.156				
9,100.00	7,806.99	8,959.20	7,806.98	53.87	49.03	90.00	-2,295.34	154.45	1,159.97	1,061.70	98.26	11.805				
9,200.00	7,806.99	9,059.20	7,806.98	55.17	50.49	90.00	-2,395.34	155.04	1,159.97	1,058.83	101.15	11.468				
9,300.00	7,806.99	9,159.20	7,806.98	56.49	51.98	90.00	-2,495.34	155.63	1,159.98	1,055.91	104.07	11.146				
9,400.00	7,806.99	9,259.20	7,806.97	57.83	53.48	90.00	-2,595.34	156.23	1,159.99	1,052.96	107.03	10.838				
9,500.00	7,806.99	9,359.20	7,806.97	59.20	55.00	90.00	-2,695.34	156.82	1,160.00	1,049.97	110.03	10.542				
9,600.00	7,806.98	9,459.20	7,806.97	60.59	56.53	90.00	-2,795.33	157.42	1,160.01	1,046.95	113.06	10.260				
9,700.00	7,806.98	9,559.20	7,806.97	62.00	58.07	90.00	-2,895.33	158.01	1,160.01	1,043.90	116.12	9.990				
9,800.00	7,806.98	9,659.20	7,806.96	63.43	59.63	90.00	-2,995.33	158.60	1,160.02	1,040.82	119.20	9.732				
9,900.00	7,806.98	9,759.20	7,806.96	64.87	61.20	90.00	-3,095.33	159.20	1,160.03	1,037.72	122.31	9.484				
10,000.00	7,806.98	9,859.20	7,806.96	66.34	62.78	90.00	-3,195.33	159.79	1,160.04	1,034.59	125.45	9.247				
10,100.00	7,806.98	9,959.20	7,806.96	67.81	64.37	90.00	-3,295.33	160.38	1,160.05	1,031.45	128.60	9.021				
10,200.00	7,806.98	10,059.20	7,806.95	69.30	65.97	90.00	-3,395.32	160.98	1,160.05	1,028.28	131.77	8.803				
10,300.00	7,806.98	10,159.20	7,806.95	70.81	67.58	90.00	-3,495.32	161.57	1,160.06	1,025.09	134.97	8.595				
10,400.00	7,806.97	10,259.20	7,806.95	72.32	69.20	90.00	-3,595.32	162.17	1,160.07	1,021.89	138.18	8.395				
10,500.00	7,806.97	10,359.20	7,806.95	73.85	70.82	90.00	-3,695.32	162.76	1,160.08	1,018.67	141.40	8.204				
10,600.00	7,806.97	10,459.20	7,806.94	75.39	72.46	90.00	-3,795.32	163.35	1,160.09	1,015.44	144.65	8.020				
10,700.00	7,806.97	10,559.20	7,806.94	76.94	74.09	90.00	-3,895.31	163.95	1,160.09	1,012.19	147.90	7.844				
10,800.00	7,806.97	10,659.20	7,806.94	78.49	75.74	90.00	-3,995.31	164.54	1,160.10	1,008.93	151.17	7.674				
10,900.00	7,806.97	10,759.20	7,806.94	80.06	77.39	90.00	-4,095.31	165.13	1,160.11	1,005.66	154.45	7.511				
11,000.00	7,806.97	10,859.20	7,806.93	81.64	79.04	90.00	-4,195.31	165.73	1,160.12	1,002.37	157.74	7.355				
11,100.00	7,806.97	10,959.20	7,806.93	83.22	80.70	90.00	-4,295.31	166.32	1,160.12	999.08	161.04	7.204				
11,200.00	7,806.96	11,059.20	7,806.93	84.81	82.37	90.00	-4,395.31	166.92	1,160.13	995.77	164.36	7.059				
11,300.00	7,806.96	11,159.20	7,806.93	86.41	84.04	90.00	-4,495.30	167.51	1,160.14	992.46	167.68	6.919				
11,400.00	7,806.96	11,259.20	7,806.92	88.01	85.71	90.00	-4,595.30	168.10	1,160.15	989.14	171.01	6.784				
11,500.00	7,806.96	11,359.20	7,806.92	89.63	87.39	90.00	-4,695.30	168.70	1,160.16	985.80	174.35	6.654				
11,600.00	7,806.96	11,459.20	7,806.92	91.24	89.07	90.00	-4,795.30	169.29	1,160.16	982.46	177.70	6.529				
11,700.00	7,806.96	11,559.20	7,806.92	92.87	90.75	90.00	-4,895.30	169.88	1,160.17	979.12	181.06	6.408				
11,800.00	7,806.96	11,659.20	7,806.91	94.49	92.44	90.00	-4,995.30	170.48	1,160.18	975.76	184.42	6.291				
11,900.00	7,806.95	11,759.20	7,806.91	96.13	94.13	90.00	-5,095.29	171.07	1,160.19	972.40	187.79	6.178				
12,000.00	7,806.95	11,859.20	7,806.91	97.77	95.82	90.00	-5,195.29	171.67	1,160.20	969.03	191.16	6.069				
12,100.00	7,806.95	11,959.20	7,806.91	99.41	97.52	90.00	-5,295.29	172.26	1,160.20	965.66	194.55	5.964				
12,200.00	7,806.95	12,059.20	7,806.90	101.06	99.22	90.00	-5,395.29	172.85	1,160.21	962.28	197.93	5.862				
12,300.00	7,806.95	12,159.20	7,806.90	102.71	100.92	90.00	-5,495.29	173.45	1,160.22	958.89	201.33	5.763				
12,400.00	7,806.95	12,259.20	7,806.90	104.37	102.63	90.00	-5,595.28	174.04	1,160.23	955.50	204.72	5.667				
12,500.00	7,806.95	12,359.20	7,806.90	106.02	104.33	90.00	-5,695.28	174.63	1,160.24	952.11	208.13	5.575				
12,600.00	7,806.95	12,459.20	7,806.89	107.69	106.04	90.00	-5,795.28	175.23	1,160.24	948.71	211.54	5.485				
12,700.00	7,806.94	12,559.20	7,806.89	109.35	107.75	90.00	-5,895.28	175.82	1,160.25	945.30	214.95	5.398				
12,800.00	7,806.94	12,659.20	7,806.89	111.02	109.47	90.00	-5,995.28	176.42	1,160.26	941.89	218.36	5.313				
12,900.00	7,806.94	12,759.20	7,806.89	112.70	111.18	90.00	-6,095.28	177.01	1,160.27	938.48	221.79	5.231				
13,000.00	7,806.94	12,859.20	7,806.88	114.37	112.90	90.00	-6,195.27	177.60	1,160.27	935.06	225.21	5.152				
13,100.00	7,806.94	12,959.20	7,806.88	116.05	114.62	90.00	-6,295.27	178.20	1,160.28	931.64	228.64	5.075				
13,200.00	7,806.94	13,059.20	7,806.88	117.74	116.34	90.00	-6,395.27	178.79	1,160.29	928.22	232.07	5.000				
13,300.00	7,806.94	13,159.20	7,806.88	119.42	118.06	90.00	-6,495.27	179.38	1,160.30	924.79	235.51	4.927				
13,400.00	7,806.94	13,259.20	7,806.88	121.11	119.78	90.00	-6,595.27	179.98	1,160.31	921.36	238.94	4.856				
13,500.00	7,806.93	13,359.20	7,806.87	122.80	121.51	90.00	-6,695.27	180.57	1,160.31	917.93	242.39	4.787				
13,600.00	7,806.93	13,459.20	7,806.87	124.49	123.23	90.00	-6,795.26	181.17	1,160.32	914.49	245.83	4.720				
13,700.00	7,806.93	13,559.20	7,806.87	126.18	124.96	90.00	-6,895.26	181.76	1,160.33	911.05	249.28	4.655				
13,800.00	7,806.93	13,659.20	7,806.87	127.88	126.69	90.00	-6,995.26	182.35	1,160.34	907.61	252.73	4.591				
13,900.00	7,806.93	13,759.20	7,806.86	129.58	128.42	90.00	-7,095.26	182.95	1,160.35	904.16	256.18	4.529				
14,000.00	7,806.93	13,859.20	7,806.86	131.28	130.15	90.00	-7,195.26	183.54	1,160.35	900.72	259.64	4.469				

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	13,959.20	7,806.86	132.98	131.88	90.00	-7,295.25	184.13	1,160.36	897.27	263.09	4.410		
14,200.00	7,806.93	14,059.20	7,806.86	134.68	133.61	90.00	-7,395.25	184.73	1,160.37	893.82	266.55	4.353		
14,300.00	7,806.92	14,159.20	7,806.85	136.39	135.35	90.00	-7,495.25	185.32	1,160.38	890.36	270.02	4.297		
14,400.00	7,806.92	14,259.20	7,806.85	138.10	137.08	90.00	-7,595.25	185.92	1,160.38	886.90	273.48	4.243		
14,500.00	7,806.92	14,359.20	7,806.85	139.81	138.82	90.00	-7,695.25	186.51	1,160.39	883.45	276.95	4.190		
14,600.00	7,806.92	14,459.20	7,806.85	141.52	140.56	90.00	-7,795.25	187.10	1,160.40	879.99	280.42	4.138		
14,700.00	7,806.92	14,559.20	7,806.84	143.23	142.29	90.00	-7,895.24	187.70	1,160.41	876.52	283.89	4.088		
14,800.00	7,806.92	14,659.20	7,806.84	144.94	144.03	90.00	-7,995.24	188.29	1,160.42	873.06	287.36	4.038		
14,900.00	7,806.92	14,759.20	7,806.84	146.66	145.77	90.00	-8,095.24	188.88	1,160.42	869.59	290.83	3.990		
15,000.00	7,806.92	14,859.20	7,806.84	148.37	147.51	90.00	-8,195.24	189.48	1,160.43	866.12	294.31	3.943		
15,100.00	7,806.91	14,959.20	7,806.83	150.09	149.25	90.00	-8,295.24	190.07	1,160.44	862.65	297.79	3.897		
15,200.00	7,806.91	15,059.20	7,806.83	151.81	151.00	90.00	-8,395.24	190.67	1,160.45	859.18	301.26	3.852		
15,300.00	7,806.91	15,159.20	7,806.83	153.53	152.74	90.00	-8,495.23	191.26	1,160.46	855.71	304.75	3.808		
15,400.00	7,806.91	15,259.20	7,806.83	155.25	154.48	90.00	-8,595.23	191.85	1,160.46	852.24	308.23	3.765		
15,500.00	7,806.91	15,359.20	7,806.82	156.97	156.23	90.00	-8,695.23	192.45	1,160.47	848.76	311.71	3.723		
15,600.00	7,806.91	15,459.20	7,806.82	158.70	157.97	90.00	-8,795.23	193.04	1,160.48	845.28	315.20	3.682		
15,700.00	7,806.91	15,559.20	7,806.82	160.42	159.72	90.00	-8,895.23	193.63	1,160.49	841.81	318.68	3.642		
15,800.00	7,806.91	15,659.20	7,806.82	162.15	161.46	90.00	-8,995.22	194.23	1,160.50	838.33	322.17	3.602		
15,900.00	7,806.90	15,759.20	7,806.81	163.88	163.21	90.00	-9,095.22	194.82	1,160.50	834.84	325.66	3.564		
16,000.00	7,806.90	15,859.20	7,806.81	165.60	164.96	90.00	-9,195.22	195.42	1,160.51	831.36	329.15	3.526		
16,100.00	7,806.90	15,959.20	7,806.81	167.33	166.70	90.00	-9,295.22	196.01	1,160.52	827.88	332.64	3.489		
16,200.00	7,806.90	16,059.20	7,806.81	169.06	168.45	90.00	-9,395.22	196.60	1,160.53	824.39	336.13	3.453		
16,300.00	7,806.90	16,159.20	7,806.80	170.79	170.20	90.00	-9,495.22	197.20	1,160.53	820.91	339.63	3.417		
16,400.00	7,806.90	16,259.20	7,806.80	172.52	171.95	90.00	-9,595.21	197.79	1,160.54	817.42	343.12	3.382		
16,500.00	7,806.90	16,359.20	7,806.80	174.26	173.70	90.00	-9,695.21	198.38	1,160.55	813.93	346.62	3.348		
16,600.00	7,806.89	16,459.20	7,806.80	175.99	175.45	90.00	-9,795.21	198.98	1,160.56	810.45	350.11	3.315		
16,700.00	7,806.89	16,559.20	7,806.79	177.72	177.20	90.00	-9,895.21	199.57	1,160.57	806.96	353.61	3.282		
16,800.00	7,806.89	16,659.20	7,806.79	179.46	178.95	89.99	-9,995.21	200.17	1,160.57	803.47	357.11	3.250		
16,900.00	7,806.89	16,759.20	7,806.79	181.19	180.70	89.99	-10,095.21	200.76	1,160.58	799.97	360.61	3.218		
17,000.00	7,806.89	16,859.20	7,806.79	182.93	182.46	89.99	-10,195.20	201.35	1,160.59	796.48	364.11	3.187		
17,100.00	7,806.89	16,959.20	7,806.78	184.67	184.21	89.99	-10,295.20	201.95	1,160.60	792.99	367.61	3.157		
17,200.00	7,806.89	17,059.20	7,806.78	186.40	185.96	89.99	-10,395.20	202.54	1,160.61	789.49	371.11	3.127		
17,300.00	7,806.89	17,159.20	7,806.78	188.14	187.71	89.99	-10,495.20	203.13	1,160.61	786.00	374.62	3.098		
17,400.00	7,806.88	17,259.20	7,806.78	189.88	189.47	89.99	-10,595.20	203.73	1,160.62	782.50	378.12	3.069		
17,500.00	7,806.88	17,359.20	7,806.77	191.62	191.22	89.99	-10,695.20	204.32	1,160.63	779.01	381.62	3.041		
17,600.00	7,806.88	17,459.20	7,806.77	193.36	192.98	89.99	-10,795.19	204.92	1,160.64	775.51	385.13	3.014		
17,700.00	7,806.88	17,559.20	7,806.77	195.10	194.73	89.99	-10,895.19	205.51	1,160.65	772.01	388.64	2.986		
17,800.00	7,806.88	17,659.20	7,806.77	196.84	196.49	89.99	-10,995.19	206.10	1,160.65	768.51	392.14	2.960		
17,900.00	7,806.88	17,759.20	7,806.76	198.58	198.24	89.99	-11,095.19	206.70	1,160.66	765.01	395.65	2.934		
18,000.00	7,806.88	17,860.32	7,806.95	200.33	200.02	90.00	-11,196.31	207.36	1,160.61	761.41	399.20	2.907		
18,024.56	7,806.88	17,884.88	7,807.02	200.75	200.45	90.01	-11,220.87	207.52	1,160.59	760.52	400.06	2.901 SF		
18,027.46	7,807.00	17,877.44	7,807.00	200.80	200.32	90.00	-11,213.43	207.47	1,160.37	760.62	399.75	2.903		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	0.60	-107.97	107.97					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.60	-107.97	107.97	107.70	0.27	401.582		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.60	-107.97	107.97	106.98	0.99	109.523		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.60	-107.97	107.97	106.26	1.70	63.408		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.60	-107.97	107.97	105.55	2.42	44.620		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.60	-107.97	107.97	104.83	3.14	34.421		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.60	-107.97	107.97	104.11	3.85	28.017		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.60	-107.97	107.97	103.40	4.57	23.623		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.60	-107.97	107.97	102.68	5.29	20.419		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.60	-107.97	107.97	101.96	6.00	17.981		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.60	-107.97	107.97	101.25	6.72	16.063	CC, ES	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.72	143.84	0.60	-107.97	109.37	101.95	7.42	14.732		
1,200.00	1,199.84	1,200.16	1,199.84	4.04	4.08	145.35	0.60	-107.97	113.64	105.52	8.12	13.998		
1,300.00	1,299.45	1,299.45	1,299.45	4.39	4.43	147.62	0.60	-107.97	120.92	112.10	8.81	13.718		
1,400.00	1,398.70	1,401.41	1,401.39	4.74	4.78	149.80	-0.97	-107.10	130.36	120.85	9.51	13.713		
1,500.00	1,497.47	1,503.68	1,503.51	5.12	5.12	151.19	-5.75	-104.49	140.87	130.68	10.19	13.828		
1,600.00	1,595.62	1,606.19	1,605.61	5.51	5.46	151.90	-13.74	-100.11	152.33	141.45	10.88	14.002		
1,700.00	1,693.06	1,708.93	1,707.54	5.94	5.82	152.08	-24.95	-93.97	164.68	153.10	11.59	14.213		
1,800.00	1,789.64	1,811.85	1,809.13	6.39	6.19	151.81	-39.40	-86.06	177.89	165.58	12.32	14.445		
1,863.26	1,850.25	1,877.04	1,873.15	6.70	6.44	151.45	-50.20	-80.15	186.69	173.90	12.79	14.595		
1,900.00	1,885.34	1,914.87	1,910.16	6.89	6.59	151.20	-57.05	-76.40	191.76	178.68	13.07	14.668		
2,000.00	1,980.83	2,013.93	2,006.96	7.41	6.98	150.48	-75.50	-66.29	205.21	191.34	13.87	14.799		
2,100.00	2,076.33	2,112.99	2,103.77	7.95	7.40	149.85	-93.95	-56.19	218.68	204.00	14.68	14.895		
2,200.00	2,171.82	2,212.05	2,200.57	8.50	7.82	149.29	-112.40	-46.09	232.18	216.67	15.52	14.963		
2,300.00	2,267.32	2,311.11	2,297.37	9.07	8.25	148.79	-130.85	-35.99	245.70	229.33	16.37	15.009		
2,400.00	2,362.81	2,410.17	2,394.17	9.64	8.69	148.34	-149.30	-25.89	259.24	242.00	17.24	15.039		
2,500.00	2,458.30	2,509.24	2,490.97	10.22	9.14	147.94	-167.74	-15.79	272.79	254.67	18.12	15.056		
2,600.00	2,553.80	2,608.30	2,587.78	10.81	9.60	147.58	-186.19	-5.68	286.35	267.34	19.01	15.061		
2,700.00	2,649.29	2,707.36	2,684.58	11.41	10.06	147.25	-204.64	4.42	299.92	280.01	19.92	15.060		
2,800.00	2,744.79	2,806.42	2,781.38	12.01	10.52	146.94	-223.09	14.52	313.50	292.68	20.83	15.053		
2,900.00	2,840.28	2,905.48	2,878.18	12.61	10.99	146.67	-241.54	24.62	327.09	305.34	21.75	15.041		
3,000.00	2,935.77	3,004.54	2,974.98	13.22	11.46	146.41	-259.99	34.72	340.69	318.01	22.67	15.026		
3,100.00	3,031.27	3,103.60	3,071.78	13.83	11.94	146.18	-278.43	44.82	354.29	330.68	23.61	15.008		
3,200.00	3,126.76	3,202.66	3,168.59	14.44	12.41	145.96	-296.88	54.93	367.90	343.35	24.55	14.988		
3,300.00	3,222.26	3,301.72	3,265.39	15.06	12.89	145.76	-315.33	65.03	381.51	356.02	25.49	14.967		
3,400.00	3,317.75	3,400.78	3,362.19	15.68	13.38	145.57	-333.78	75.13	395.12	368.69	26.44	14.945		
3,500.00	3,413.25	3,500.16	3,458.99	16.30	13.86	145.39	-352.23	85.23	408.74	381.35	27.39	14.922		
3,600.00	3,508.74	3,601.10	3,555.79	16.92	14.36	145.23	-370.68	95.33	422.37	394.01	28.36	14.895		
3,700.00	3,604.23	3,702.04	3,652.60	17.54	14.85	145.07	-389.13	105.43	435.99	406.67	29.32	14.868		
3,800.00	3,699.73	3,802.98	3,749.40	18.17	15.35	144.93	-407.57	115.54	449.62	419.33	30.30	14.841		
3,900.00	3,795.22	3,903.92	3,846.20	18.79	15.85	144.79	-426.02	125.64	463.26	431.99	31.27	14.815		
4,000.00	3,890.72	4,004.86	3,943.00	19.42	16.35	144.66	-444.47	135.74	476.89	444.64	32.25	14.789		
4,100.00	3,986.21	4,105.80	4,039.80	20.05	16.85	144.54	-462.92	145.84	490.53	457.30	33.23	14.763		
4,200.00	4,081.70	4,206.74	4,136.61	20.67	17.36	144.43	-481.37	155.94	504.17	469.96	34.21	14.739		
4,300.00	4,177.20	4,307.67	4,233.41	21.30	17.86	144.32	-499.82	166.04	517.81	482.62	35.19	14.714		
4,400.00	4,272.69	4,408.61	4,330.21	21.93	18.37	144.22	-518.26	176.15	531.45	495.28	36.18	14.691		
4,500.00	4,368.19	4,509.55	4,427.01	22.56	18.87	144.12	-536.71	186.25	545.10	507.93	37.16	14.668		
4,600.00	4,463.68	4,589.51	4,523.81	23.19	19.27	144.02	-555.16	196.35	558.74	520.69	38.05	14.684		
4,700.00	4,559.17	4,688.57	4,620.62	23.83	19.77	143.94	-573.61	206.45	572.39	533.36	39.03	14.665		
4,800.00	4,654.67	4,787.63	4,717.42	24.46	20.27	143.85	-592.06	216.55	586.04	546.02	40.01	14.646		
4,900.00	4,750.16	4,886.69	4,814.22	25.09	20.77	143.77	-610.51	226.65	599.69	558.69	41.00	14.627		
5,000.00	4,845.66	4,985.75	4,911.02	25.72	21.27	143.69	-628.96	236.76	613.34	571.36	41.98	14.609		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,084.81	5,007.82	26.36	21.77	143.62	-647.40	246.86	626.99	584.02	42.97	14.592		
5,200.00	5,036.65	5,183.87	5,104.62	26.99	22.27	143.55	-665.85	256.96	640.64	596.69	43.95	14.575		
5,300.00	5,132.14	5,282.93	5,201.43	27.63	22.77	143.48	-684.30	267.06	654.30	609.36	44.94	14.559		
5,400.00	5,227.63	5,381.99	5,298.23	28.26	23.27	143.42	-702.75	277.16	667.95	622.02	45.93	14.543		
5,500.00	5,323.13	5,481.05	5,395.03	28.90	23.77	143.35	-721.20	287.27	681.61	634.69	46.92	14.527		
5,600.00	5,418.62	5,580.11	5,491.83	29.53	24.27	143.29	-739.65	297.37	695.27	647.35	47.91	14.512		
5,700.00	5,514.12	5,679.17	5,588.63	30.17	24.77	143.24	-758.10	307.47	708.92	660.02	48.90	14.497		
5,800.00	5,609.61	5,778.23	5,685.44	30.80	25.27	143.18	-776.54	317.57	722.58	672.69	49.89	14.482		
5,900.00	5,705.10	5,877.29	5,782.24	31.44	25.78	143.13	-794.99	327.67	736.24	685.35	50.89	14.468		
6,000.00	5,800.60	5,976.36	5,879.04	32.08	26.28	143.07	-813.44	337.77	749.90	698.02	51.88	14.455		
6,100.00	5,896.09	6,075.42	5,975.84	32.71	26.78	143.03	-831.89	347.88	763.56	710.68	52.87	14.442		
6,200.00	5,991.59	6,174.48	6,072.64	33.35	27.29	142.98	-850.34	357.98	777.22	723.35	53.87	14.429		
6,300.00	6,087.08	6,273.54	6,169.45	33.99	27.79	142.93	-868.79	368.08	790.88	736.02	54.86	14.416		
6,400.00	6,182.57	6,372.60	6,266.25	34.62	28.29	142.89	-887.23	378.18	804.54	748.68	55.86	14.404		
6,499.99	6,278.06	6,471.65	6,363.04	35.26	28.80	142.84	-905.68	388.28	818.20	761.35	56.85	14.392		
6,505.95	6,283.75	6,477.55	6,368.80	35.30	28.83	142.84	-906.78	388.88	819.01	762.10	56.91	14.391		
6,600.00	6,374.00	6,570.86	6,459.99	35.88	29.30	142.88	-924.16	398.40	830.64	772.79	57.85	14.358		
6,700.00	6,470.87	6,666.32	6,553.30	36.44	29.78	142.77	-941.82	408.07	840.41	781.58	58.83	14.285		
6,800.00	6,568.53	6,753.53	6,638.96	36.96	30.20	142.66	-956.18	415.93	848.55	788.86	59.69	14.216		
6,900.00	6,666.89	6,840.83	6,725.16	37.43	30.60	142.57	-968.26	422.55	855.40	794.91	60.49	14.142		
7,000.00	6,765.82	6,928.18	6,811.80	37.85	30.96	142.50	-978.04	427.90	860.94	799.72	61.22	14.063		
7,100.00	6,865.19	7,015.60	6,898.79	38.22	31.30	142.45	-985.50	431.99	865.16	803.28	61.89	13.980		
7,200.00	6,964.89	7,103.05	6,986.04	38.55	31.61	142.41	-990.63	434.79	868.07	805.58	62.49	13.892		
7,300.00	7,064.80	7,190.53	7,073.46	38.83	31.89	142.39	-993.42	436.32	869.65	806.63	63.02	13.800		
7,369.20	7,134.00	7,251.07	7,134.00	39.00	32.06	-90.61	-993.98	436.63	869.97	806.63	63.34	13.736		
7,400.00	7,164.80	7,281.87	7,164.80	39.06	32.14	-90.61	-993.98	436.63	869.97	806.47	63.50	13.701		
7,469.20	7,234.00	7,351.07	7,234.00	39.22	32.32	-90.61	-993.98	436.63	869.97	806.11	63.86	13.624		
7,474.10	7,238.89	7,355.96	7,238.89	39.23	32.33	89.74	-993.98	436.63	869.97	806.09	63.88	13.618		
7,500.00	7,264.78	7,381.65	7,264.57	39.29	32.41	89.74	-994.80	436.64	869.97	805.93	64.04	13.585		
7,550.00	7,314.53	7,431.30	7,313.97	39.44	32.59	89.74	-999.59	436.66	869.97	805.57	64.40	13.509		
7,600.00	7,363.66	7,480.96	7,362.78	39.62	32.81	89.74	-1,008.64	436.72	869.97	805.14	64.83	13.419		
7,650.00	7,411.81	7,530.62	7,410.62	39.82	33.07	89.75	-1,021.88	436.80	869.97	804.63	65.34	13.315		
7,700.00	7,458.61	7,580.29	7,457.15	40.06	33.36	89.76	-1,039.22	436.90	869.97	804.05	65.92	13.198		
7,750.00	7,503.69	7,629.97	7,502.02	40.32	33.69	89.77	-1,060.53	437.03	869.97	803.41	66.56	13.070		
7,800.00	7,546.72	7,679.67	7,544.88	40.60	34.04	89.78	-1,085.65	437.18	869.97	802.70	67.27	12.932		
7,850.00	7,587.38	7,729.38	7,585.42	40.92	34.43	89.79	-1,114.39	437.35	869.97	801.93	68.05	12.785		
7,900.00	7,625.34	7,779.11	7,623.33	41.25	34.85	89.81	-1,146.56	437.54	869.97	801.09	68.88	12.630		
7,950.00	7,660.33	7,828.87	7,658.32	41.61	35.30	89.82	-1,181.90	437.75	869.98	800.20	69.78	12.467		
8,000.00	7,692.07	7,878.64	7,690.13	42.00	35.78	89.84	-1,220.17	437.98	869.98	799.25	70.73	12.300		
8,050.00	7,720.33	7,928.44	7,718.51	42.40	36.28	89.86	-1,261.07	438.22	869.98	798.24	71.74	12.128		
8,100.00	7,744.89	7,978.27	7,743.25	42.83	36.81	89.88	-1,304.30	438.48	869.98	797.19	72.79	11.953		
8,150.00	7,765.56	8,028.12	7,764.14	43.27	37.36	89.90	-1,349.54	438.75	869.98	796.10	73.88	11.776		
8,200.00	7,782.18	8,078.00	7,781.04	43.74	37.92	89.92	-1,396.46	439.03	869.99	794.98	75.01	11.599		
8,250.00	7,794.63	8,127.91	7,793.80	44.22	38.50	89.94	-1,444.69	439.31	869.99	793.83	76.16	11.423		
8,300.00	7,802.82	8,177.85	7,802.32	44.71	39.09	89.97	-1,493.88	439.61	869.99	792.65	77.34	11.249		
8,350.00	7,806.68	8,227.82	7,806.53	45.21	39.69	89.99	-1,543.66	439.90	869.99	791.47	78.53	11.079		
8,369.28	7,807.00	8,255.20	7,807.00	45.40	40.02	90.00	-1,562.93	440.02	869.99	790.91	79.09	11.000		
8,400.00	7,807.00	8,277.82	7,807.00	45.72	40.29	90.00	-1,593.65	440.20	870.00	790.27	79.72	10.913		
8,500.00	7,807.00	8,377.82	7,807.00	46.77	41.53	90.00	-1,693.65	440.80	870.00	787.82	82.18	10.587		
8,600.00	7,807.00	8,477.82	7,807.00	47.86	42.80	90.00	-1,793.64	441.39	870.01	785.30	84.71	10.271		
8,700.00	7,807.00	8,577.82	7,807.00	48.99	44.10	90.00	-1,893.64	441.99	870.02	782.71	87.31	9.965		
8,800.00	7,806.99	8,677.82	7,806.99	50.16	45.44	90.00	-1,993.64	442.58	870.02	780.05	89.97	9.670		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	8,777.82	7,806.99	51.37	46.81	90.00	-2,093.64	443.18	870.03	777.33	92.70	9.386		
9,000.00	7,806.99	8,877.82	7,806.99	52.60	48.20	90.00	-2,193.64	443.77	870.03	774.56	95.48	9.113		
9,100.00	7,806.99	8,977.82	7,806.99	53.87	49.62	90.00	-2,293.64	444.37	870.04	771.74	98.30	8.851		
9,200.00	7,806.99	9,077.82	7,806.99	55.17	51.06	90.00	-2,393.63	444.96	870.05	768.87	101.18	8.599		
9,300.00	7,806.99	9,177.82	7,806.99	56.49	52.52	90.00	-2,493.63	445.56	870.05	765.96	104.09	8.359		
9,400.00	7,806.99	9,277.82	7,806.98	57.83	53.99	90.00	-2,593.63	446.15	870.06	763.02	107.04	8.128		
9,500.00	7,806.99	9,377.82	7,806.98	59.20	55.49	90.00	-2,693.63	446.75	870.07	760.03	110.03	7.907		
9,600.00	7,806.98	9,477.82	7,806.98	60.59	57.00	90.00	-2,793.63	447.35	870.07	757.02	113.05	7.696		
9,700.00	7,806.98	9,577.82	7,806.98	62.00	58.53	90.00	-2,893.63	447.94	870.08	753.98	116.10	7.494		
9,800.00	7,806.98	9,677.82	7,806.98	63.43	60.07	90.00	-2,993.62	448.54	870.08	750.91	119.18	7.301		
9,900.00	7,806.98	9,777.82	7,806.98	64.87	61.62	90.00	-3,093.62	449.13	870.09	747.81	122.28	7.116		
10,000.00	7,806.98	9,877.82	7,806.98	66.34	63.18	90.00	-3,193.62	449.73	870.10	744.69	125.41	6.938		
10,100.00	7,806.98	9,977.82	7,806.97	67.81	64.75	90.00	-3,293.62	450.32	870.10	741.55	128.55	6.768		
10,200.00	7,806.98	10,077.82	7,806.97	69.30	66.34	90.00	-3,393.62	450.92	870.11	738.39	131.72	6.606		
10,300.00	7,806.98	10,177.82	7,806.97	70.81	67.93	90.00	-3,493.61	451.51	870.12	735.21	134.91	6.450		
10,400.00	7,806.97	10,277.82	7,806.97	72.32	69.53	90.00	-3,593.61	452.11	870.12	732.01	138.11	6.300		
10,500.00	7,806.97	10,377.82	7,806.97	73.85	71.14	90.00	-3,693.61	452.70	870.13	728.79	141.33	6.157		
10,600.00	7,806.97	10,477.82	7,806.97	75.39	72.76	90.00	-3,793.61	453.30	870.13	725.56	144.57	6.019		
10,700.00	7,806.97	10,577.82	7,806.96	76.94	74.39	90.00	-3,893.61	453.90	870.14	722.32	147.82	5.887		
10,800.00	7,806.97	10,677.82	7,806.96	78.49	76.02	90.00	-3,993.61	454.49	870.15	719.06	151.08	5.759		
10,900.00	7,806.97	10,777.82	7,806.96	80.06	77.66	90.00	-4,093.60	455.09	870.15	715.79	154.36	5.637		
11,000.00	7,806.97	10,877.82	7,806.96	81.64	79.30	90.00	-4,193.60	455.68	870.16	712.51	157.65	5.520		
11,100.00	7,806.97	10,977.82	7,806.96	83.22	80.95	90.00	-4,293.60	456.28	870.17	709.22	160.95	5.407		
11,200.00	7,806.96	11,077.82	7,806.96	84.81	82.60	90.00	-4,393.60	456.87	870.17	705.92	164.25	5.298		
11,300.00	7,806.96	11,177.82	7,806.96	86.41	84.26	90.00	-4,493.60	457.47	870.18	702.60	167.57	5.193		
11,400.00	7,806.96	11,277.82	7,806.95	88.01	85.92	90.00	-4,593.60	458.06	870.18	699.28	170.90	5.092		
11,500.00	7,806.96	11,377.82	7,806.95	89.63	87.59	90.00	-4,693.59	458.66	870.19	695.95	174.24	4.994		
11,600.00	7,806.96	11,477.82	7,806.95	91.24	89.26	90.00	-4,793.59	459.25	870.20	692.61	177.58	4.900		
11,700.00	7,806.96	11,577.82	7,806.95	92.87	90.94	90.00	-4,893.59	459.85	870.20	689.27	180.93	4.810		
11,800.00	7,806.96	11,677.82	7,806.95	94.49	92.62	90.00	-4,993.59	460.44	870.21	685.92	184.29	4.722		
11,900.00	7,806.95	11,777.82	7,806.95	96.13	94.30	90.00	-5,093.59	461.04	870.21	682.56	187.66	4.637		
12,000.00	7,806.95	11,877.82	7,806.94	97.77	95.99	90.00	-5,193.58	461.64	870.22	679.19	191.03	4.555		
12,100.00	7,806.95	11,977.82	7,806.94	99.41	97.68	90.00	-5,293.58	462.23	870.23	675.82	194.41	4.476		
12,200.00	7,806.95	12,077.82	7,806.94	101.06	99.37	90.00	-5,393.58	462.83	870.23	672.44	197.80	4.400		
12,300.00	7,806.95	12,177.82	7,806.94	102.71	101.06	90.00	-5,493.58	463.42	870.24	669.05	201.19	4.326		
12,400.00	7,806.95	12,277.82	7,806.94	104.37	102.76	90.00	-5,593.58	464.02	870.25	665.66	204.58	4.254		
12,500.00	7,806.95	12,377.82	7,806.94	106.02	104.46	90.00	-5,693.58	464.61	870.25	662.27	207.98	4.184		
12,600.00	7,806.95	12,477.82	7,806.94	107.69	106.16	90.00	-5,793.57	465.21	870.26	658.87	211.39	4.117		
12,700.00	7,806.94	12,577.82	7,806.93	109.35	107.87	90.00	-5,893.57	465.80	870.26	655.47	214.80	4.052		
12,800.00	7,806.94	12,677.82	7,806.93	111.02	109.57	90.00	-5,993.57	466.40	870.27	652.06	218.21	3.988		
12,900.00	7,806.94	12,777.82	7,806.93	112.70	111.28	90.00	-6,093.57	466.99	870.28	648.65	221.63	3.927		
13,000.00	7,806.94	12,877.82	7,806.93	114.37	112.99	90.00	-6,193.57	467.59	870.28	645.23	225.05	3.867		
13,100.00	7,806.94	12,977.82	7,806.93	116.05	114.71	90.00	-6,293.57	468.18	870.29	641.81	228.48	3.809		
13,200.00	7,806.94	13,077.82	7,806.93	117.74	116.42	90.00	-6,393.56	468.78	870.30	638.39	231.91	3.753		
13,300.00	7,806.94	13,177.82	7,806.92	119.42	118.14	90.00	-6,493.56	469.38	870.30	634.96	235.34	3.698		
13,400.00	7,806.94	13,277.82	7,806.92	121.11	119.85	90.00	-6,593.56	469.97	870.31	631.53	238.78	3.645		
13,500.00	7,806.93	13,377.82	7,806.92	122.80	121.57	90.00	-6,693.56	470.57	870.31	628.09	242.22	3.593		
13,600.00	7,806.93	13,477.82	7,806.92	124.49	123.30	90.00	-6,793.56	471.16	870.32	624.66	245.66	3.543		
13,700.00	7,806.93	13,577.82	7,806.92	126.18	125.02	90.00	-6,893.55	471.76	870.33	621.22	249.11	3.494		
13,800.00	7,806.93	13,677.82	7,806.92	127.88	126.74	90.00	-6,993.55	472.35	870.33	617.78	252.56	3.446		
13,900.00	7,806.93	13,777.82	7,806.91	129.58	128.47	90.00	-7,093.55	472.95	870.34	614.33	256.01	3.400		
14,000.00	7,806.93	13,877.82	7,806.91	131.28	130.19	90.00	-7,193.55	473.54	870.35	610.88	259.46	3.354		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 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
14,100.00	7,806.93	13,977.82	7,806.91	132.98	131.92	90.00	-7,293.55	474.14	870.35	607.43	262.92	3.310	
14,200.00	7,806.93	14,077.82	7,806.91	134.68	133.65	90.00	-7,393.55	474.73	870.36	603.98	266.38	3.267	
14,300.00	7,806.92	14,177.82	7,806.91	136.39	135.38	90.00	-7,493.54	475.33	870.36	600.53	269.84	3.226	
14,400.00	7,806.92	14,277.82	7,806.91	138.10	137.11	90.00	-7,593.54	475.92	870.37	597.07	273.30	3.185	
14,500.00	7,806.92	14,377.82	7,806.91	139.81	138.84	90.00	-7,693.54	476.52	870.38	593.61	276.77	3.145	
14,600.00	7,806.92	14,477.82	7,806.90	141.52	140.58	90.00	-7,793.54	477.12	870.38	590.15	280.23	3.106	
14,700.00	7,806.92	14,577.82	7,806.90	143.23	142.31	90.00	-7,893.54	477.71	870.39	586.69	283.70	3.068	
14,800.00	7,806.92	14,677.82	7,806.90	144.94	144.05	90.00	-7,993.54	478.31	870.40	583.22	287.17	3.031	
14,900.00	7,806.92	14,777.82	7,806.90	146.66	145.78	90.00	-8,093.53	478.90	870.40	579.76	290.65	2.995	
15,000.00	7,806.92	14,877.82	7,806.90	148.37	147.52	90.00	-8,193.53	479.50	870.41	576.29	294.12	2.959	
15,100.00	7,806.91	14,977.82	7,806.90	150.09	149.26	90.00	-8,293.53	480.09	870.41	572.82	297.60	2.925	
15,200.00	7,806.91	15,077.82	7,806.89	151.81	151.00	90.00	-8,393.53	480.69	870.42	569.35	301.08	2.891	
15,300.00	7,806.91	15,177.82	7,806.89	153.53	152.74	90.00	-8,493.53	481.28	870.43	565.87	304.55	2.858	
15,400.00	7,806.91	15,277.82	7,806.89	155.25	154.48	90.00	-8,593.52	481.88	870.43	562.40	308.04	2.826	
15,500.00	7,806.91	15,377.82	7,806.89	156.97	156.22	90.00	-8,693.52	482.47	870.44	558.92	311.52	2.794	
15,600.00	7,806.91	15,477.82	7,806.89	158.70	157.96	90.00	-8,793.52	483.07	870.45	555.44	315.00	2.763	
15,700.00	7,806.91	15,577.82	7,806.89	160.42	159.70	90.00	-8,893.52	483.66	870.45	551.96	318.49	2.733	
15,800.00	7,806.91	15,677.82	7,806.89	162.15	161.44	90.00	-8,993.52	484.26	870.46	548.48	321.97	2.704	
15,900.00	7,806.90	15,777.82	7,806.88	163.88	163.19	90.00	-9,093.52	484.86	870.46	545.00	325.46	2.675	
16,000.00	7,806.90	15,877.82	7,806.88	165.60	164.93	90.00	-9,193.51	485.45	870.47	541.52	328.95	2.646	
16,100.00	7,806.90	15,977.82	7,806.88	167.33	166.68	90.00	-9,293.51	486.05	870.48	538.04	332.44	2.618	
16,200.00	7,806.90	16,077.82	7,806.88	169.06	168.42	90.00	-9,393.51	486.64	870.48	534.55	335.93	2.591	
16,300.00	7,806.90	16,177.82	7,806.88	170.79	170.17	90.00	-9,493.51	487.24	870.49	531.06	339.43	2.565	
16,400.00	7,806.90	16,277.82	7,806.88	172.52	171.92	90.00	-9,593.51	487.83	870.50	527.58	342.92	2.538	
16,500.00	7,806.90	16,377.82	7,806.87	174.26	173.66	90.00	-9,693.50	488.43	870.50	524.09	346.41	2.513	
16,600.00	7,806.89	16,477.82	7,806.87	175.99	175.41	90.00	-9,793.50	489.02	870.51	520.60	349.91	2.488	
16,700.00	7,806.89	16,577.82	7,806.87	177.72	177.16	90.00	-9,893.50	489.62	870.51	517.11	353.41	2.463	
16,800.00	7,806.89	16,677.82	7,806.87	179.46	178.91	90.00	-9,993.50	490.21	870.52	513.62	356.90	2.439	
16,900.00	7,806.89	16,777.82	7,806.87	181.19	180.66	90.00	-10,093.50	490.81	870.53	510.12	360.40	2.415	
17,000.00	7,806.89	16,877.82	7,806.87	182.93	182.41	90.00	-10,193.50	491.41	870.53	506.63	363.90	2.392	
17,100.00	7,806.89	16,977.82	7,806.87	184.67	184.16	90.00	-10,293.49	492.00	870.54	503.13	367.40	2.369	
17,200.00	7,806.89	17,077.82	7,806.86	186.40	185.91	90.00	-10,393.49	492.60	870.55	499.64	370.91	2.347	
17,300.00	7,806.89	17,177.82	7,806.86	188.14	187.66	90.00	-10,493.49	493.19	870.55	496.14	374.41	2.325	
17,400.00	7,806.88	17,277.82	7,806.86	189.88	189.41	90.00	-10,593.49	493.79	870.56	492.65	377.91	2.304	
17,500.00	7,806.88	17,377.82	7,806.86	191.62	191.16	90.00	-10,693.49	494.38	870.56	489.15	381.41	2.282	
17,600.00	7,806.88	17,477.82	7,806.86	193.36	192.91	90.00	-10,793.49	494.98	870.57	485.65	384.92	2.262	
17,700.00	7,806.88	17,577.82	7,806.86	195.10	194.67	90.00	-10,893.48	495.57	870.58	482.15	388.42	2.241	
17,800.00	7,806.88	17,677.82	7,806.85	196.84	196.42	90.00	-10,993.48	496.17	870.58	478.65	391.93	2.221	
17,900.00	7,806.88	17,777.82	7,806.85	198.58	198.17	90.00	-11,093.48	496.76	870.59	475.15	395.44	2.202	
18,000.00	7,806.88	17,877.82	7,806.97	200.33	199.93	90.01	-11,193.53	497.36	870.59	471.64	398.95	2.182	
18,027.46	7,806.88	17,905.33	7,807.01	200.80	200.41	90.01	-11,220.99	497.53	870.59	470.68	399.91	2.177	
18,027.46	7,807.00	17,905.33	7,807.01	200.80	200.41	90.00	-11,220.99	497.53	870.32	470.41	399.91	2.176 SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	0.40	-71.98	71.98					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.40	-71.98	71.98	71.71	0.27	267.725		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.40	-71.98	71.98	70.99	0.99	73.016		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.40	-71.98	71.98	70.28	1.70	42.272		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.40	-71.98	71.98	69.56	2.42	29.747		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.40	-71.98	71.98	68.84	3.14	22.948		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.40	-71.98	71.98	68.13	3.85	18.679		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.40	-71.98	71.98	67.41	4.57	15.749		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.40	-71.98	71.98	66.69	5.29	13.613		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.40	-71.98	71.98	65.97	6.00	11.988		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.40	-71.98	71.98	65.26	6.72	10.709 CC, ES		
1,100.00	1,099.98	1,100.02	1,099.98	3.71	3.72	144.11	0.40	-71.98	73.39	65.96	7.42	9.885		
1,200.00	1,199.84	1,199.84	1,199.84	4.04	4.08	146.33	0.40	-71.98	77.69	69.57	8.12	9.571		
1,300.00	1,299.45	1,301.56	1,301.54	4.39	4.43	148.72	-1.00	-70.85	83.83	75.03	8.80	9.524		
1,400.00	1,398.70	1,403.52	1,403.35	4.74	4.76	150.30	-5.23	-67.44	90.57	81.09	9.48	9.557		
1,500.00	1,497.47	1,505.69	1,505.11	5.12	5.11	151.20	-12.29	-61.76	97.81	87.65	10.16	9.628		
1,600.00	1,595.62	1,608.07	1,606.69	5.51	5.47	151.56	-22.19	-53.78	105.50	94.65	10.85	9.723		
1,700.00	1,693.06	1,710.63	1,707.93	5.94	5.84	151.46	-34.95	-43.51	113.62	102.06	11.56	9.831		
1,800.00	1,789.64	1,813.38	1,808.70	6.39	6.24	151.01	-50.54	-30.94	122.16	109.87	12.29	9.940		
1,863.26	1,850.25	1,877.42	1,871.16	6.70	6.51	150.62	-61.55	-22.07	127.91	115.14	12.77	10.013		
1,900.00	1,885.34	1,913.98	1,906.79	6.89	6.66	150.51	-67.92	-16.94	131.53	118.46	13.06	10.068		
2,000.00	1,980.83	2,013.49	2,003.78	7.41	7.08	150.22	-85.26	-2.98	141.37	127.50	13.86	10.196		
2,100.00	2,076.33	2,113.00	2,100.77	7.95	7.52	149.97	-102.60	10.99	151.21	136.53	14.69	10.297		
2,200.00	2,171.82	2,212.51	2,197.76	8.50	7.97	149.74	-119.93	24.95	161.06	145.54	15.52	10.376		
2,300.00	2,267.32	2,312.03	2,294.76	9.07	8.43	149.55	-137.27	38.92	170.91	154.54	16.37	10.439		
2,400.00	2,362.81	2,411.54	2,391.75	9.64	8.90	149.37	-154.61	52.88	180.76	163.52	17.24	10.488		
2,500.00	2,458.30	2,511.05	2,488.74	10.22	9.37	149.22	-171.94	66.85	190.61	172.50	18.11	10.526		
2,600.00	2,553.80	2,610.56	2,585.73	10.81	9.85	149.08	-189.28	80.81	200.47	181.47	18.99	10.556		
2,700.00	2,649.29	2,710.08	2,682.72	11.41	10.33	148.95	-206.62	94.78	210.32	190.44	19.88	10.579		
2,800.00	2,744.79	2,809.59	2,779.71	12.01	10.82	148.83	-223.95	108.74	220.18	199.40	20.78	10.596		
2,900.00	2,840.28	2,909.10	2,876.70	12.61	11.31	148.73	-241.29	122.70	230.03	208.35	21.68	10.610		
3,000.00	2,935.77	3,008.61	2,973.69	13.22	11.80	148.63	-258.63	136.67	239.89	217.30	22.59	10.619		
3,100.00	3,031.27	3,108.12	3,070.68	13.83	12.30	148.54	-275.96	150.63	249.75	226.24	23.50	10.626		
3,200.00	3,126.76	3,207.64	3,167.67	14.44	12.80	148.46	-293.30	164.60	259.61	235.18	24.42	10.630		
3,300.00	3,222.26	3,307.15	3,264.66	15.06	13.30	148.38	-310.63	178.56	269.46	244.12	25.34	10.632		
3,400.00	3,317.75	3,406.66	3,361.65	15.68	13.80	148.31	-327.97	192.53	279.32	253.06	26.27	10.633		
3,500.00	3,413.25	3,506.17	3,458.64	16.30	14.31	148.24	-345.31	206.49	289.18	261.99	27.20	10.633		
3,600.00	3,508.74	3,605.68	3,555.63	16.92	14.82	148.18	-362.64	220.46	299.04	270.92	28.13	10.631		
3,700.00	3,604.23	3,705.20	3,652.62	17.54	15.33	148.12	-379.98	234.42	308.90	279.84	29.06	10.629		
3,800.00	3,699.73	3,804.71	3,749.61	18.17	15.83	148.07	-397.32	248.39	318.76	288.77	30.00	10.626		
3,900.00	3,795.22	3,904.22	3,846.60	18.79	16.35	148.01	-414.65	262.35	328.63	297.69	30.94	10.623		
4,000.00	3,890.72	4,003.73	3,943.59	19.42	16.86	147.97	-431.99	276.31	338.49	306.61	31.88	10.619		
4,100.00	3,986.21	4,103.25	4,040.58	20.05	17.37	147.92	-449.33	290.28	348.35	315.53	32.82	10.615		
4,200.00	4,081.70	4,202.76	4,137.57	20.67	17.88	147.88	-466.66	304.24	358.21	324.45	33.76	10.610		
4,300.00	4,177.20	4,302.27	4,234.56	21.30	18.40	147.84	-484.00	318.21	368.07	333.37	34.71	10.606		
4,400.00	4,272.69	4,401.78	4,331.55	21.93	18.91	147.80	-501.34	332.17	377.93	342.28	35.65	10.601		
4,500.00	4,368.19	4,501.29	4,428.54	22.56	19.43	147.76	-518.67	346.14	387.80	351.20	36.60	10.596		
4,600.00	4,463.68	4,600.81	4,525.53	23.19	19.94	147.73	-536.01	360.10	397.66	360.11	37.55	10.591		
4,700.00	4,559.17	4,700.32	4,622.52	23.83	20.46	147.69	-553.35	374.07	407.52	369.02	38.50	10.586		
4,800.00	4,654.67	4,799.83	4,719.51	24.46	20.98	147.66	-570.68	388.03	417.38	377.94	39.45	10.580		
4,900.00	4,750.16	4,900.66	4,816.50	25.09	21.50	147.63	-588.02	402.00	427.25	386.84	40.41	10.574		
5,000.00	4,845.66	5,001.14	4,913.49	25.72	22.03	147.60	-605.36	415.96	437.11	395.75	41.36	10.568		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,098.37	5,010.48	26.36	22.53	147.57	-622.69	429.93	446.97	404.67	42.31	10.565		
5,200.00	5,036.65	5,202.12	5,107.47	26.99	23.08	147.55	-640.03	443.89	456.84	413.56	43.28	10.555		
5,300.00	5,132.14	5,302.61	5,204.46	27.63	23.60	147.52	-657.36	457.85	466.70	422.46	44.24	10.549		
5,400.00	5,227.63	5,396.90	5,301.45	28.26	24.09	147.50	-674.70	471.82	476.56	431.39	45.17	10.550		
5,500.00	5,323.13	5,496.42	5,398.44	28.90	24.61	147.48	-692.04	485.78	486.42	440.30	46.13	10.545		
5,600.00	5,418.62	5,604.07	5,495.43	29.53	25.18	147.45	-709.37	499.75	496.29	449.17	47.12	10.532		
5,700.00	5,514.12	5,695.44	5,592.42	30.17	25.65	147.43	-726.71	513.71	506.15	458.11	48.04	10.536		
5,800.00	5,609.61	5,805.05	5,689.41	30.80	26.23	147.41	-744.05	527.68	516.02	466.97	49.05	10.521		
5,900.00	5,705.10	5,905.53	5,786.40	31.44	26.76	147.39	-761.38	541.64	525.88	475.87	50.01	10.516		
6,000.00	5,800.60	6,006.02	5,883.40	32.08	27.28	147.37	-778.72	555.61	535.74	484.77	50.97	10.510		
6,100.00	5,896.09	6,106.51	5,980.39	32.71	27.81	147.35	-796.06	569.57	545.61	493.67	51.94	10.505		
6,200.00	5,991.59	6,207.00	6,077.38	33.35	28.34	147.34	-813.39	583.54	555.47	502.57	52.90	10.500		
6,300.00	6,087.08	6,307.49	6,174.37	33.99	28.86	147.32	-830.73	597.50	565.33	511.47	53.87	10.495		
6,400.00	6,182.57	6,407.97	6,271.36	34.62	29.39	147.30	-848.07	611.47	575.20	520.37	54.83	10.490		
6,499.99	6,278.06	6,508.47	6,368.33	35.26	29.92	147.29	-865.40	625.43	585.06	529.26	55.80	10.486		
6,505.95	6,283.75	6,502.55	6,374.11	35.30	29.89	147.29	-866.43	626.26	585.65	529.85	55.80	10.496		
6,600.00	6,374.00	6,608.84	6,465.44	35.88	30.45	147.28	-882.76	639.41	593.63	536.86	56.77	10.456		
6,700.00	6,470.87	6,709.05	6,562.71	36.44	30.97	147.06	-900.14	653.41	599.29	541.51	57.78	10.372		
6,800.00	6,568.53	6,790.80	6,660.02	36.96	31.40	146.64	-917.54	667.43	602.04	543.31	58.73	10.251		
6,900.00	6,666.89	6,890.57	6,757.27	37.43	31.93	146.01	-934.92	681.43	601.93	542.14	59.79	10.067		
7,000.00	6,765.82	6,977.65	6,842.44	37.85	32.37	145.38	-949.01	692.77	600.10	539.35	60.75	9.878		
7,100.00	6,865.19	7,065.32	6,928.71	38.22	32.78	144.75	-961.15	702.55	597.50	535.85	61.65	9.692		
7,200.00	6,964.89	7,163.17	7,015.60	38.55	33.16	144.13	-971.25	710.69	594.13	531.65	62.49	9.508		
7,300.00	7,064.80	7,261.22	7,103.03	38.83	33.52	143.52	-979.28	717.16	589.98	526.72	63.26	9.327		
7,369.20	7,134.00	7,302.27	7,163.83	39.00	33.75	-89.89	-983.63	720.66	586.65	522.90	63.75	9.202		
7,400.00	7,164.80	7,329.47	7,190.95	39.06	33.84	-90.05	-985.23	721.96	585.18	521.23	63.95	9.151		
7,469.20	7,234.00	7,390.74	7,252.11	39.22	34.05	-90.33	-988.12	724.28	582.56	518.19	64.37	9.050		
7,500.00	7,264.78	7,418.06	7,279.40	39.29	34.14	90.08	-989.08	725.06	581.69	517.17	64.53	9.015		
7,550.00	7,314.53	7,462.30	7,323.61	39.44	34.27	90.49	-990.21	725.96	580.69	516.01	64.68	8.978		
7,600.00	7,363.66	7,505.95	7,367.25	39.62	34.40	91.26	-990.80	726.44	580.28	515.57	64.71	8.968		
7,603.93	7,367.49	7,509.34	7,370.64	39.63	34.41	91.34	-990.82	726.45	580.28	515.57	64.71	8.968		
7,650.00	7,411.81	7,550.50	7,411.81	39.82	34.52	92.40	-990.90	726.52	580.62	516.00	64.62	8.985		
7,700.00	7,458.61	7,602.70	7,458.61	40.06	34.65	93.92	-990.90	726.52	581.66	517.17	64.49	9.019		
7,750.00	7,503.69	7,643.49	7,504.80	40.32	34.76	95.67	-990.98	726.52	583.65	519.40	64.25	9.084		
7,800.00	7,546.72	7,694.84	7,556.03	40.60	34.92	97.65	-994.16	726.54	586.61	522.45	64.17	9.142		
7,850.00	7,587.38	7,748.77	7,609.31	40.92	35.13	99.62	-1,002.42	726.59	590.39	526.16	64.23	9.191		
7,900.00	7,625.34	7,805.63	7,664.37	41.25	35.40	101.58	-1,016.50	726.67	594.91	530.44	64.47	9.228		
7,950.00	7,660.33	7,865.81	7,720.82	41.61	35.73	103.50	-1,037.27	726.79	600.04	535.17	64.87	9.250		
8,000.00	7,692.07	7,929.69	7,778.01	42.00	36.13	105.39	-1,065.67	726.96	605.61	540.18	65.43	9.257		
8,050.00	7,720.33	7,997.64	7,834.97	42.40	36.60	107.20	-1,102.65	727.18	611.41	545.28	66.14	9.245		
8,100.00	7,744.89	8,069.97	7,890.33	42.83	37.17	108.92	-1,149.12	727.46	617.20	550.18	67.02	9.209		
8,150.00	7,765.56	8,146.84	7,942.25	43.27	37.83	110.49	-1,205.72	727.79	622.70	554.61	68.09	9.145		
8,200.00	7,782.18	8,228.19	7,988.43	43.74	38.59	111.87	-1,272.60	728.19	627.59	558.18	69.41	9.042		
8,250.00	7,794.63	8,313.63	8,026.24	44.22	39.46	112.98	-1,349.15	728.64	631.60	560.55	71.05	8.890		
8,300.00	7,802.82	8,402.42	8,053.01	44.71	40.41	113.76	-1,433.71	729.14	634.45	561.39	73.06	8.684		
8,350.00	7,806.68	8,493.42	8,066.58	45.21	41.42	114.17	-1,523.58	729.68	635.93	560.46	75.47	8.426		
8,369.28	7,807.00	8,528.79	8,067.98	45.40	41.82	114.22	-1,558.92	729.89	636.11	559.61	76.50	8.315		
8,400.00	7,807.00	8,561.78	8,068.00	45.72	42.20	114.22	-1,591.91	730.08	636.12	558.85	77.27	8.232		
8,500.00	7,807.00	8,661.78	8,068.00	46.77	43.37	114.22	-1,691.91	730.67	636.13	556.60	79.53	7.998		
8,600.00	7,807.00	8,761.78	8,068.00	47.86	44.57	114.22	-1,791.91	731.27	636.14	554.27	81.86	7.771		
8,700.00	7,807.00	8,861.78	8,067.99	48.99	45.82	114.22	-1,891.91	731.86	636.14	551.88	84.26	7.550		
8,800.00	7,806.99	8,961.78	8,067.99	50.16	47.09	114.22	-1,991.91	732.45	636.15	549.44	86.72	7.336		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	9,061.78	8,067.99	51.37	48.40	114.22	-2,091.90	733.05	636.16	546.93	89.23	7.130		
9,000.00	7,806.99	9,161.78	8,067.99	52.60	49.74	114.22	-2,191.90	733.64	636.17	544.38	91.78	6.931		
9,100.00	7,806.99	9,261.78	8,067.99	53.87	51.10	114.22	-2,291.90	734.23	636.18	541.78	94.39	6.740		
9,200.00	7,806.99	9,361.78	8,067.99	55.17	52.49	114.22	-2,391.90	734.83	636.18	539.14	97.04	6.556		
9,300.00	7,806.99	9,461.78	8,067.98	56.49	53.90	114.22	-2,491.90	735.42	636.19	536.46	99.72	6.379		
9,400.00	7,806.99	9,561.78	8,067.98	57.83	55.33	114.22	-2,591.90	736.01	636.20	533.75	102.45	6.210		
9,500.00	7,806.99	9,661.78	8,067.98	59.20	56.78	114.22	-2,691.90	736.61	636.20	531.00	105.20	6.047		
9,600.00	7,806.98	9,761.78	8,067.98	60.59	58.25	114.22	-2,791.90	737.20	636.21	528.22	107.99	5.891		
9,700.00	7,806.98	9,861.79	8,067.98	62.00	59.74	114.22	-2,891.89	737.79	636.22	525.42	110.80	5.742		
9,800.00	7,806.98	9,961.79	8,067.98	63.43	61.24	114.22	-2,991.89	738.39	636.23	522.58	113.64	5.598		
9,900.00	7,806.98	10,061.79	8,067.98	64.87	62.75	114.22	-3,091.89	738.98	636.23	519.73	116.51	5.461		
10,000.00	7,806.98	10,161.79	8,067.98	66.34	64.28	114.22	-3,191.89	739.58	636.24	516.85	119.39	5.329		
10,100.00	7,806.98	10,261.79	8,067.97	67.81	65.82	114.22	-3,291.89	740.17	636.25	513.94	122.30	5.202		
10,200.00	7,806.98	10,361.79	8,067.97	69.30	67.37	114.22	-3,391.89	740.76	636.25	511.02	125.23	5.081		
10,300.00	7,806.98	10,461.79	8,067.97	70.81	68.93	114.22	-3,491.89	741.36	636.26	508.09	128.17	4.964		
10,400.00	7,806.97	10,561.79	8,067.97	72.32	70.50	114.22	-3,591.88	741.95	636.27	505.13	131.14	4.852		
10,500.00	7,806.97	10,661.79	8,067.97	73.85	72.08	114.22	-3,691.88	742.55	636.27	502.16	134.11	4.744		
10,600.00	7,806.97	10,761.79	8,067.97	75.39	73.67	114.22	-3,791.88	743.14	636.28	499.17	137.11	4.641		
10,700.00	7,806.97	10,861.79	8,067.97	76.94	75.27	114.22	-3,891.88	743.74	636.29	496.17	140.11	4.541		
10,800.00	7,806.97	10,961.79	8,067.97	78.49	76.87	114.22	-3,991.88	744.33	636.29	493.16	143.13	4.446		
10,900.00	7,806.97	11,061.79	8,067.97	80.06	78.49	114.22	-4,091.88	744.93	636.30	490.14	146.16	4.353		
11,000.00	7,806.97	11,161.79	8,067.96	81.64	80.11	114.22	-4,191.88	745.52	636.31	487.10	149.20	4.265		
11,100.00	7,806.97	11,261.79	8,067.96	83.22	81.73	114.22	-4,291.88	746.12	636.31	484.05	152.26	4.179		
11,200.00	7,806.96	11,361.79	8,067.96	84.81	83.36	114.22	-4,391.87	746.71	636.32	481.00	155.32	4.097		
11,300.00	7,806.96	11,461.79	8,067.96	86.41	85.00	114.22	-4,491.87	747.31	636.32	477.93	158.39	4.017		
11,400.00	7,806.96	11,561.79	8,067.96	88.01	86.64	114.22	-4,591.87	747.90	636.33	474.85	161.48	3.941		
11,500.00	7,806.96	11,661.79	8,067.96	89.63	88.29	114.22	-4,691.87	748.50	636.34	471.77	164.57	3.867		
11,600.00	7,806.96	11,761.79	8,067.96	91.24	89.94	114.21	-4,791.87	749.09	636.34	468.68	167.66	3.795		
11,700.00	7,806.96	11,861.79	8,067.96	92.87	91.60	114.21	-4,891.87	749.69	636.35	465.58	170.77	3.726		
11,800.00	7,806.96	11,961.79	8,067.96	94.49	93.26	114.21	-4,991.87	750.28	636.35	462.47	173.88	3.660		
11,900.00	7,806.95	12,061.79	8,067.96	96.13	94.93	114.21	-5,091.86	750.88	636.36	459.36	177.00	3.595		
12,000.00	7,806.95	12,161.80	8,067.96	97.77	96.60	114.21	-5,191.86	751.48	636.36	456.24	180.13	3.533		
12,100.00	7,806.95	12,261.80	8,067.96	99.41	98.27	114.21	-5,291.86	752.07	636.37	453.11	183.26	3.473		
12,200.00	7,806.95	12,361.80	8,067.96	101.06	99.95	114.21	-5,391.86	752.67	636.38	449.98	186.40	3.414		
12,300.00	7,806.95	12,461.80	8,067.96	102.71	101.63	114.21	-5,491.86	753.26	636.38	446.84	189.54	3.358		
12,400.00	7,806.95	12,561.80	8,067.96	104.37	103.31	114.21	-5,591.86	753.86	636.39	443.70	192.69	3.303		
12,500.00	7,806.95	12,661.80	8,067.96	106.02	104.99	114.21	-5,691.86	754.46	636.39	440.55	195.84	3.250		
12,600.00	7,806.95	12,761.80	8,067.96	107.69	106.68	114.21	-5,791.85	755.05	636.40	437.40	199.00	3.198		
12,700.00	7,806.94	12,861.80	8,067.96	109.35	108.37	114.21	-5,891.85	755.65	636.40	434.24	202.16	3.148		
12,800.00	7,806.94	12,961.80	8,067.96	111.02	110.07	114.21	-5,991.85	756.25	636.41	431.08	205.33	3.099		
12,900.00	7,806.94	13,061.80	8,067.96	112.70	111.76	114.21	-6,091.85	756.84	636.41	427.91	208.50	3.052		
13,000.00	7,806.94	13,161.80	8,067.96	114.37	113.46	114.21	-6,191.85	757.44	636.42	424.74	211.67	3.007		
13,100.00	7,806.94	13,261.80	8,067.96	116.05	115.16	114.21	-6,291.85	758.04	636.42	421.57	214.85	2.962		
13,200.00	7,806.94	13,361.80	8,067.96	117.74	116.87	114.21	-6,391.85	758.63	636.43	418.39	218.03	2.919		
13,300.00	7,806.94	13,461.80	8,067.96	119.42	118.57	114.21	-6,491.85	759.23	636.43	415.21	221.22	2.877		
13,400.00	7,806.94	13,561.80	8,067.96	121.11	120.28	114.21	-6,591.84	759.83	636.44	412.03	224.41	2.836		
13,500.00	7,806.93	13,661.80	8,067.96	122.80	121.99	114.21	-6,691.84	760.42	636.44	408.84	227.60	2.796		
13,600.00	7,806.93	13,761.80	8,067.96	124.49	123.70	114.21	-6,791.84	761.02	636.44	405.65	230.80	2.758		
13,700.00	7,806.93	13,861.80	8,067.96	126.18	125.41	114.21	-6,891.84	761.62	636.45	402.46	233.99	2.720		
13,800.00	7,806.93	13,961.80	8,067.96	127.88	127.12	114.21	-6,991.84	762.22	636.45	399.26	237.19	2.683		
13,900.00	7,806.93	14,061.80	8,067.96	129.58	128.84	114.21	-7,091.84	762.81	636.46	396.06	240.40	2.648		
14,000.00	7,806.93	14,161.80	8,067.96	131.28	130.56	114.21	-7,191.84	763.41	636.46	392.86	243.60	2.613		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE - PROPOSAL 1												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 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
14,100.00	7,806.93	14,261.80	8,067.96	132.98	132.28	114.21	-7,291.83	764.01	636.47	389.65	246.81	2.579	
14,200.00	7,806.93	14,361.80	8,067.96	134.68	134.00	114.21	-7,391.83	764.61	636.47	386.45	250.02	2.546	
14,300.00	7,806.92	14,461.80	8,067.96	136.39	135.72	114.21	-7,491.83	765.21	636.47	383.24	253.23	2.513	
14,400.00	7,806.92	14,561.81	8,067.96	138.10	137.44	114.21	-7,591.83	765.80	636.48	380.03	256.45	2.482	
14,500.00	7,806.92	14,661.81	8,067.96	139.81	139.16	114.21	-7,691.83	766.40	636.48	376.82	259.67	2.451	
14,600.00	7,806.92	14,761.81	8,067.96	141.52	140.89	114.21	-7,791.83	767.00	636.49	373.60	262.89	2.421	
14,700.00	7,806.92	14,861.81	8,067.96	143.23	142.62	114.21	-7,891.83	767.60	636.49	370.38	266.11	2.392	
14,800.00	7,806.92	14,961.81	8,067.96	144.94	144.34	114.21	-7,991.82	768.20	636.49	367.16	269.33	2.363	
14,900.00	7,806.92	15,061.81	8,067.96	146.66	146.07	114.21	-8,091.82	768.79	636.50	363.94	272.55	2.335	
15,000.00	7,806.92	15,161.81	8,067.96	148.37	147.80	114.21	-8,191.82	769.39	636.50	360.72	275.78	2.308	
15,100.00	7,806.91	15,261.81	8,067.96	150.09	149.53	114.21	-8,291.82	769.99	636.50	357.50	279.01	2.281	
15,200.00	7,806.91	15,361.81	8,067.96	151.81	151.26	114.21	-8,391.82	770.59	636.51	354.27	282.24	2.255	
15,300.00	7,806.91	15,461.81	8,067.96	153.53	153.00	114.21	-8,491.82	771.19	636.51	351.04	285.47	2.230	
15,400.00	7,806.91	15,561.81	8,067.96	155.25	154.73	114.21	-8,591.82	771.79	636.51	347.81	288.70	2.205	
15,500.00	7,806.91	15,661.81	8,067.97	156.97	156.47	114.21	-8,691.82	772.39	636.52	344.58	291.94	2.180	
15,600.00	7,806.91	15,761.81	8,067.97	158.70	158.20	114.21	-8,791.81	772.99	636.52	341.35	295.17	2.156	
15,700.00	7,806.91	15,861.81	8,067.97	160.42	159.94	114.21	-8,891.81	773.59	636.52	338.11	298.41	2.133	
15,800.00	7,806.91	15,961.81	8,067.97	162.15	161.67	114.21	-8,991.81	774.18	636.53	334.88	301.65	2.110	
15,900.00	7,806.90	16,061.81	8,067.97	163.88	163.41	114.21	-9,091.81	774.78	636.53	331.64	304.89	2.088	
16,000.00	7,806.90	16,161.81	8,067.97	165.60	165.15	114.21	-9,191.81	775.38	636.53	328.40	308.13	2.066	
16,100.00	7,806.90	16,261.81	8,067.97	167.33	166.89	114.21	-9,291.81	775.98	636.54	325.17	311.37	2.044	
16,200.00	7,806.90	16,361.81	8,067.97	169.06	168.63	114.21	-9,391.81	776.58	636.54	321.93	314.61	2.023	
16,300.00	7,806.90	16,461.81	8,067.97	170.79	170.37	114.21	-9,491.80	777.18	636.54	318.68	317.86	2.003	
16,400.00	7,806.90	16,561.81	8,067.98	172.52	172.11	114.21	-9,591.80	777.78	636.54	315.44	321.10	1.982	
16,500.00	7,806.90	16,661.81	8,067.98	174.26	173.85	114.21	-9,691.80	778.38	636.55	312.20	324.35	1.963	
16,600.00	7,806.89	16,761.81	8,067.98	175.99	175.60	114.21	-9,791.80	778.98	636.55	308.95	327.60	1.943	
16,700.00	7,806.89	16,861.82	8,067.98	177.72	177.34	114.21	-9,891.80	779.58	636.55	305.71	330.85	1.924	
16,800.00	7,806.89	16,961.82	8,067.98	179.46	179.08	114.21	-9,991.80	780.18	636.55	302.46	334.10	1.905	
16,900.00	7,806.89	17,061.82	8,067.98	181.19	180.83	114.21	-10,091.80	780.78	636.56	299.21	337.35	1.887	
17,000.00	7,806.89	17,161.82	8,067.98	182.93	182.57	114.22	-10,191.79	781.38	636.56	295.96	340.60	1.869	
17,100.00	7,806.89	17,261.82	8,067.98	184.67	184.32	114.22	-10,291.79	781.98	636.56	292.71	343.85	1.851	
17,200.00	7,806.89	17,361.82	8,067.99	186.40	186.07	114.22	-10,391.79	782.58	636.56	289.46	347.10	1.834	
17,300.00	7,806.89	17,461.82	8,067.99	188.14	187.81	114.22	-10,491.79	783.18	636.57	286.21	350.36	1.817	
17,400.00	7,806.88	17,561.82	8,067.99	189.88	189.56	114.22	-10,591.79	783.79	636.57	282.96	353.61	1.800	
17,500.00	7,806.88	17,661.82	8,067.99	191.62	191.31	114.22	-10,691.79	784.39	636.57	279.70	356.87	1.784	
17,600.00	7,806.88	17,761.82	8,067.99	193.36	193.05	114.22	-10,791.79	784.99	636.57	276.45	360.12	1.768	
17,700.00	7,806.88	17,861.82	8,067.99	195.10	194.80	114.22	-10,891.79	785.59	636.57	273.19	363.38	1.752	
17,800.00	7,806.88	17,961.82	8,068.00	196.84	196.55	114.22	-10,991.78	786.19	636.58	269.94	366.64	1.736	
17,900.00	7,806.88	18,061.82	8,068.00	198.58	198.30	114.22	-11,091.78	786.79	636.58	266.68	369.90	1.721	
18,000.00	7,806.88	18,161.82	8,068.00	200.33	200.05	114.22	-11,191.78	787.39	636.58	263.42	373.15	1.706	
18,027.46	7,806.88	18,189.28	8,068.00	200.80	200.53	114.22	-11,219.24	787.56	636.58	262.53	374.05	1.702	
18,027.46	7,807.00	18,189.28	8,068.00	200.80	200.53	114.22	-11,219.24	787.56	636.28	262.23	374.05	1.701 SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-89.68	0.20	-35.99	35.99					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.20	-35.99	35.99	35.72	0.27	133.857		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.20	-35.99	35.99	35.00	0.99	36.507		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.20	-35.99	35.99	34.29	1.70	21.135		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.20	-35.99	35.99	33.57	2.42	14.873		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.20	-35.99	35.99	32.85	3.14	11.473		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.20	-35.99	35.99	32.13	3.85	9.339		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.20	-35.99	35.99	31.42	4.57	7.874		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.20	-35.99	35.99	30.70	5.29	6.806		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.20	-35.99	35.99	29.98	6.00	5.994		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.20	-35.99	35.99	29.27	6.72	5.354 CC		
1,100.00	1,099.98	1,099.98	1,099.98	3.71	3.72	144.90	0.20	-35.99	37.40	29.98	7.42	5.038		
1,200.00	1,199.84	1,200.97	1,200.95	4.04	4.07	147.51	-1.02	-34.69	40.40	32.30	8.10	4.987		
1,300.00	1,299.45	1,302.08	1,301.91	4.39	4.40	149.31	-4.67	-30.79	43.66	34.89	8.77	4.978		
1,400.00	1,398.70	1,403.31	1,402.75	4.74	4.75	150.44	-10.78	-24.29	47.11	37.67	9.44	4.990		
1,500.00	1,497.47	1,504.66	1,503.31	5.12	5.11	151.02	-19.33	-15.18	50.75	40.63	10.12	5.015		
1,600.00	1,595.62	1,606.11	1,603.48	5.51	5.49	151.15	-30.32	-3.48	54.54	43.73	10.81	5.046		
1,700.00	1,693.06	1,707.67	1,703.13	5.94	5.88	150.91	-43.74	10.83	58.49	46.97	11.51	5.080		
1,800.00	1,789.64	1,809.34	1,802.12	6.39	6.31	150.38	-59.59	27.72	62.59	50.34	12.24	5.113		
1,863.26	1,850.25	1,873.71	1,864.34	6.70	6.60	149.92	-70.87	39.73	65.26	52.54	12.72	5.131		
1,900.00	1,885.34	1,910.29	1,899.61	6.89	6.77	149.70	-77.49	46.78	66.90	53.88	13.02	5.138		
2,000.00	1,980.83	2,010.19	1,995.95	7.41	7.24	149.14	-95.57	66.05	71.37	57.52	13.85	5.154		
2,100.00	2,076.33	2,110.08	2,092.29	7.95	7.73	148.65	-113.66	85.32	75.84	61.14	14.70	5.160		
2,200.00	2,171.82	2,209.98	2,188.63	8.50	8.23	148.22	-131.75	104.59	80.32	64.75	15.56	5.160		
2,300.00	2,267.32	2,309.88	2,284.97	9.07	8.74	147.83	-149.84	123.87	84.80	68.35	16.45	5.155		
2,400.00	2,362.81	2,409.78	2,381.31	9.64	9.27	147.48	-167.93	143.14	89.28	71.93	17.35	5.146		
2,500.00	2,458.30	2,509.68	2,477.64	10.22	9.79	147.16	-186.01	162.41	93.77	75.51	18.26	5.135		
2,600.00	2,553.80	2,609.57	2,573.98	10.81	10.33	146.88	-204.10	181.68	98.26	79.08	19.18	5.122		
2,700.00	2,649.29	2,709.47	2,670.32	11.41	10.87	146.61	-222.19	200.95	102.75	82.64	20.12	5.108		
2,800.00	2,744.79	2,809.37	2,766.66	12.01	11.42	146.37	-240.28	220.22	107.25	86.19	21.06	5.093		
2,900.00	2,840.28	2,909.27	2,863.00	12.61	11.97	146.15	-258.37	239.49	111.74	89.74	22.00	5.078		
3,000.00	2,935.77	3,009.17	2,959.34	13.22	12.52	145.95	-276.45	258.76	116.24	93.28	22.96	5.063		
3,100.00	3,031.27	3,109.06	3,056.67	13.83	13.08	145.76	-294.54	278.03	120.74	96.82	23.92	5.048		
3,200.00	3,126.76	3,208.96	3,152.01	14.44	13.64	145.58	-312.63	297.31	125.24	100.35	24.88	5.033		
3,300.00	3,222.26	3,308.86	3,248.35	15.06	14.20	145.42	-330.72	316.58	129.74	103.88	25.85	5.018		
3,400.00	3,317.75	3,408.76	3,344.69	15.68	14.77	145.27	-348.81	335.85	134.24	107.41	26.83	5.004		
3,500.00	3,413.25	3,508.66	3,441.03	16.30	15.33	145.13	-366.89	355.12	138.74	110.94	27.81	4.990		
3,600.00	3,508.74	3,608.55	3,537.37	16.92	15.90	144.99	-384.98	374.39	143.25	114.46	28.79	4.976		
3,700.00	3,604.23	3,708.45	3,633.70	17.54	16.47	144.87	-403.07	393.66	147.75	117.98	29.77	4.963		
3,800.00	3,699.73	3,808.35	3,730.04	18.17	17.04	144.75	-421.16	412.93	152.26	121.50	30.76	4.950		
3,900.00	3,795.22	3,908.25	3,826.38	18.79	17.61	144.64	-439.24	432.20	156.76	125.01	31.75	4.937		
4,000.00	3,890.72	4,008.15	3,922.72	19.42	18.18	144.53	-457.33	451.47	161.27	128.53	32.74	4.925		
4,100.00	3,986.21	4,108.04	4,019.06	20.05	18.76	144.43	-475.42	470.74	165.78	132.04	33.74	4.914		
4,200.00	4,081.70	4,207.94	4,115.40	20.67	19.33	144.34	-493.51	490.02	170.28	135.55	34.73	4.902		
4,300.00	4,177.20	4,307.84	4,211.73	21.30	19.91	144.25	-511.60	509.29	174.79	139.06	35.73	4.892		
4,400.00	4,272.69	4,407.74	4,308.07	21.93	20.48	144.17	-529.68	528.56	179.30	142.57	36.73	4.881		
4,500.00	4,368.19	4,507.64	4,404.41	22.56	21.06	144.09	-547.77	547.83	183.81	146.07	37.73	4.871		
4,600.00	4,463.68	4,607.53	4,500.75	23.19	21.64	144.01	-565.86	567.10	188.32	149.58	38.74	4.861		
4,700.00	4,559.17	4,707.43	4,597.09	23.83	22.22	143.94	-583.95	586.37	192.82	153.08	39.74	4.852		
4,800.00	4,654.67	4,807.33	4,693.42	24.46	22.79	143.87	-602.04	605.64	197.33	156.59	40.75	4.843		
4,900.00	4,750.16	4,907.23	4,789.76	25.09	23.37	143.80	-620.12	624.91	201.84	160.09	41.76	4.834		
5,000.00	4,845.66	5,007.13	4,886.10	25.72	23.95	143.74	-638.21	644.18	206.35	163.59	42.76	4.826		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,107.02	4,982.44	26.36	24.53	143.68	-656.30	663.46	210.86	167.09	43.77	4.817		
5,200.00	5,036.65	5,206.92	5,078.78	26.99	25.11	143.62	-674.39	682.73	215.37	170.59	44.78	4.809		
5,300.00	5,132.14	5,306.82	5,175.12	27.63	25.70	143.56	-692.48	702.00	219.89	174.09	45.79	4.802		
5,400.00	5,227.63	5,406.72	5,271.45	28.26	26.28	143.51	-710.56	721.27	224.40	177.59	46.80	4.794		
5,500.00	5,323.13	5,506.62	5,367.79	28.90	26.86	143.46	-728.65	740.54	228.91	181.09	47.82	4.787		
5,600.00	5,418.62	5,606.51	5,464.13	29.53	27.44	143.41	-746.74	759.81	233.42	184.59	48.83	4.780		
5,700.00	5,514.12	5,706.41	5,560.47	30.17	28.02	143.36	-764.83	779.08	237.93	188.09	49.84	4.773		
5,800.00	5,609.61	5,806.31	5,656.81	30.80	28.61	143.31	-782.92	798.35	242.44	191.58	50.86	4.767		
5,900.00	5,705.10	5,906.21	5,753.15	31.44	29.19	143.27	-801.00	817.62	246.95	195.08	51.87	4.761		
6,000.00	5,800.60	6,006.11	5,849.48	32.08	29.77	143.23	-819.09	836.89	251.46	198.58	52.89	4.755		
6,100.00	5,896.09	6,106.00	5,945.82	32.71	30.35	143.18	-837.18	856.17	255.98	202.07	53.91	4.749		
6,200.00	5,991.59	6,205.90	6,042.16	33.35	30.94	143.14	-855.27	875.44	260.49	205.57	54.92	4.743		
6,300.00	6,087.08	6,305.80	6,138.50	33.99	31.52	143.11	-873.35	894.71	265.00	209.06	55.94	4.737		
6,400.00	6,182.57	6,405.70	6,234.84	34.62	32.11	143.07	-891.44	913.98	269.51	212.56	56.96	4.732		
6,499.99	6,278.06	6,505.58	6,331.16	35.26	32.69	143.03	-909.53	933.25	274.03	216.05	57.98	4.727		
6,505.95	6,283.75	6,511.54	6,336.90	35.30	32.72	143.03	-910.61	934.40	274.29	216.26	58.04	4.726		
6,600.00	6,374.00	6,602.00	6,424.26	35.88	33.25	142.92	-926.70	951.54	277.65	218.64	59.00	4.706		
6,700.00	6,470.87	6,695.32	6,515.03	36.44	33.75	142.79	-941.51	967.32	280.61	220.66	59.96	4.680		
6,800.00	6,568.53	6,788.61	6,606.42	36.96	34.22	142.67	-954.29	980.93	283.17	222.35	60.83	4.655		
6,900.00	6,666.89	6,881.87	6,698.35	37.43	34.64	142.58	-965.02	992.37	285.33	223.71	61.62	4.631		
7,000.00	6,765.82	6,975.10	6,790.72	37.85	35.03	142.51	-973.69	1,001.61	287.07	224.74	62.33	4.606		
7,100.00	6,865.19	7,068.32	6,883.43	38.22	35.38	142.45	-980.31	1,008.66	288.40	225.44	62.96	4.581		
7,200.00	6,964.89	7,161.52	6,976.39	38.55	35.69	142.41	-984.85	1,013.50	289.31	225.80	63.51	4.555		
7,300.00	7,064.80	7,254.72	7,069.51	38.83	35.97	142.39	-987.32	1,016.13	289.81	225.82	63.98	4.529		
7,369.20	7,134.00	7,319.21	7,134.00	39.00	36.14	-90.61	-987.82	1,016.66	289.91	225.65	64.26	4.512		
7,400.00	7,164.80	7,350.01	7,164.80	39.06	36.21	-90.61	-987.82	1,016.66	289.91	225.49	64.41	4.501		
7,446.14	7,210.93	7,396.14	7,210.93	39.17	36.32	-90.61	-987.82	1,016.66	289.91	225.25	64.65	4.484		
7,469.20	7,234.00	7,419.21	7,234.00	39.22	36.37	-90.61	-987.82	1,016.66	289.91	225.14	64.77	4.476		
7,500.00	7,264.78	7,449.94	7,264.71	39.29	36.46	89.74	-988.64	1,016.67	289.91	224.96	64.95	4.464		
7,550.00	7,314.53	7,499.82	7,314.34	39.44	36.61	89.74	-993.48	1,016.70	289.91	224.61	65.30	4.440		
7,600.00	7,363.66	7,549.71	7,363.37	39.62	36.81	89.74	-1,002.62	1,016.75	289.91	224.19	65.72	4.411		
7,650.00	7,411.81	7,599.59	7,411.42	39.82	37.03	89.75	-1,015.98	1,016.83	289.91	223.69	66.21	4.378		
7,700.00	7,458.61	7,649.49	7,458.13	40.06	37.29	89.76	-1,033.47	1,016.93	289.91	223.13	66.77	4.342		
7,750.00	7,503.69	7,699.38	7,503.14	40.32	37.57	89.77	-1,054.96	1,017.06	289.91	222.50	67.40	4.301		
7,800.00	7,546.72	7,749.28	7,546.12	40.60	37.88	89.78	-1,080.29	1,017.22	289.91	221.81	68.09	4.257		
7,850.00	7,587.38	7,799.19	7,586.73	40.92	38.22	89.79	-1,109.26	1,017.39	289.91	221.06	68.85	4.211		
7,900.00	7,625.34	7,849.10	7,624.68	41.25	38.59	89.81	-1,141.65	1,017.58	289.91	220.24	69.67	4.161		
7,950.00	7,660.33	7,899.02	7,659.67	41.61	38.98	89.82	-1,177.23	1,017.80	289.91	219.37	70.54	4.110		
8,000.00	7,692.07	7,948.94	7,691.43	42.00	39.40	89.84	-1,215.73	1,018.03	289.91	218.44	71.47	4.056		
8,050.00	7,720.33	7,998.88	7,719.73	42.40	39.84	89.86	-1,256.85	1,018.27	289.91	217.46	72.45	4.001		
8,100.00	7,744.89	8,048.82	7,744.35	42.83	40.30	89.88	-1,300.29	1,018.53	289.91	216.43	73.48	3.945		
8,150.00	7,765.56	8,098.77	7,765.09	43.27	40.78	89.90	-1,345.71	1,018.81	289.91	215.36	74.55	3.889		
8,200.00	7,782.18	8,148.73	7,781.81	43.74	41.28	89.92	-1,392.78	1,019.09	289.91	214.25	75.66	3.832		
8,250.00	7,794.63	8,198.70	7,794.36	44.22	41.80	89.95	-1,441.13	1,019.38	289.91	213.12	76.79	3.775		
8,300.00	7,802.82	8,248.68	7,802.66	44.71	42.33	89.97	-1,490.40	1,019.67	289.91	211.97	77.95	3.719		
8,350.00	7,806.68	8,298.68	7,806.63	45.21	42.87	89.99	-1,540.21	1,019.97	289.91	210.80	79.11	3.665		
8,369.28	7,807.00	8,320.63	7,807.00	45.40	43.10	90.00	-1,559.49	1,020.09	289.91	210.32	79.60	3.642		
8,400.00	7,807.00	8,348.67	7,807.00	45.72	43.41	90.00	-1,590.21	1,020.27	289.91	209.62	80.29	3.611		
8,500.00	7,807.00	8,448.67	7,807.00	46.77	44.53	90.00	-1,690.20	1,020.87	289.92	207.21	82.70	3.506		
8,600.00	7,807.00	8,548.67	7,806.99	47.86	45.70	90.00	-1,790.20	1,021.47	289.92	204.73	85.19	3.403		
8,700.00	7,807.00	8,648.67	7,806.99	48.99	46.90	90.00	-1,890.20	1,022.07	289.92	202.16	87.76	3.304		
8,800.00	7,806.99	8,748.67	7,806.99	50.16	48.13	90.00	-1,990.20	1,022.67	289.92	199.54	90.39	3.208		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance								Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	8,848.67	7,806.99	51.37	49.40	90.00	-2,090.20	1,023.27	289.93	196.85	93.08	3.115					
9,000.00	7,806.99	8,948.67	7,806.98	52.60	50.70	90.00	-2,190.20	1,023.87	289.93	194.10	95.82	3.026					
9,100.00	7,806.99	9,048.67	7,806.98	53.87	52.03	90.00	-2,290.19	1,024.47	289.93	191.31	98.62	2.940					
9,200.00	7,806.99	9,148.67	7,806.98	55.17	53.38	90.00	-2,390.19	1,025.07	289.93	188.47	101.46	2.857					
9,300.00	7,806.99	9,248.67	7,806.98	56.49	54.76	90.00	-2,490.19	1,025.67	289.93	185.58	104.35	2.778					
9,400.00	7,806.99	9,348.67	7,806.98	57.83	56.16	90.00	-2,590.19	1,026.27	289.94	182.66	107.28	2.703					
9,500.00	7,806.99	9,448.67	7,806.97	59.20	57.58	90.00	-2,690.19	1,026.87	289.94	179.70	110.24	2.630					
9,600.00	7,806.98	9,548.67	7,806.97	60.59	59.02	90.00	-2,790.18	1,027.47	289.94	176.70	113.24	2.560					
9,700.00	7,806.98	9,648.67	7,806.97	62.00	60.48	90.00	-2,890.18	1,028.07	289.94	173.68	116.26	2.494					
9,800.00	7,806.98	9,748.67	7,806.97	63.43	61.95	90.00	-2,990.18	1,028.67	289.94	170.62	119.32	2.430					
9,900.00	7,806.98	9,848.67	7,806.96	64.87	63.44	90.00	-3,090.18	1,029.27	289.95	167.54	122.40	2.369					
10,000.00	7,806.98	9,948.67	7,806.96	66.34	64.94	90.00	-3,190.18	1,029.86	289.95	164.44	125.51	2.310					
10,100.00	7,806.98	10,048.67	7,806.96	67.81	66.46	90.00	-3,290.18	1,030.46	289.95	161.31	128.64	2.254					
10,200.00	7,806.98	10,148.67	7,806.96	69.30	67.99	90.00	-3,390.17	1,031.06	289.95	158.16	131.79	2.200					
10,300.00	7,806.98	10,248.67	7,806.95	70.81	69.53	90.00	-3,490.17	1,031.66	289.96	154.99	134.96	2.148					
10,400.00	7,806.97	10,348.67	7,806.95	72.32	71.08	90.00	-3,590.17	1,032.26	289.96	151.81	138.15	2.099					
10,500.00	7,806.97	10,448.67	7,806.95	73.85	72.64	90.00	-3,690.17	1,032.86	289.96	148.60	141.36	2.051					
10,600.00	7,806.97	10,548.67	7,806.95	75.39	74.21	90.00	-3,790.17	1,033.46	289.96	145.38	144.58	2.006					
10,700.00	7,806.97	10,648.67	7,806.94	76.94	75.79	89.99	-3,890.17	1,034.06	289.96	142.15	147.81	1.962					
10,800.00	7,806.97	10,748.67	7,806.94	78.49	77.38	89.99	-3,990.16	1,034.66	289.97	138.90	151.06	1.919					
10,900.00	7,806.97	10,848.67	7,806.94	80.06	78.98	89.99	-4,090.16	1,035.26	289.97	135.64	154.33	1.879					
11,000.00	7,806.97	10,948.67	7,806.94	81.64	80.58	89.99	-4,190.16	1,035.86	289.97	132.37	157.60	1.840					
11,100.00	7,806.97	11,048.67	7,806.93	83.22	82.19	89.99	-4,290.16	1,036.46	289.97	129.08	160.89	1.802					
11,200.00	7,806.96	11,148.67	7,806.93	84.81	83.81	89.99	-4,390.16	1,037.06	289.97	125.78	164.19	1.766					
11,300.00	7,806.96	11,248.67	7,806.93	86.41	85.43	89.99	-4,490.15	1,037.66	289.98	122.48	167.50	1.731					
11,400.00	7,806.96	11,348.67	7,806.93	88.01	87.06	89.99	-4,590.15	1,038.26	289.98	119.16	170.81	1.698					
11,500.00	7,806.96	11,448.67	7,806.92	89.63	88.70	89.99	-4,690.15	1,038.86	289.98	115.84	174.14	1.665					
11,600.00	7,806.96	11,548.67	7,806.92	91.24	90.34	89.99	-4,790.15	1,039.46	289.98	112.51	177.48	1.634					
11,700.00	7,806.96	11,648.67	7,806.92	92.87	91.98	89.99	-4,890.15	1,040.06	289.98	109.16	180.82	1.604					
11,800.00	7,806.96	11,748.67	7,806.92	94.49	93.63	89.99	-4,990.15	1,040.66	289.99	105.82	184.17	1.575					
11,900.00	7,806.95	11,848.67	7,806.91	96.13	95.29	89.99	-5,090.14	1,041.26	289.99	102.46	187.53	1.546					
12,000.00	7,806.95	11,948.67	7,806.91	97.77	96.94	89.99	-5,190.14	1,041.86	289.99	99.10	190.89	1.519					
12,100.00	7,806.95	12,048.67	7,806.91	99.41	98.61	89.99	-5,290.14	1,042.45	289.99	95.73	194.26	1.493 Level 3					
12,200.00	7,806.95	12,148.67	7,806.91	101.06	100.27	89.99	-5,390.14	1,043.05	290.00	92.35	197.64	1.467 Level 3					
12,300.00	7,806.95	12,248.67	7,806.91	102.71	101.94	89.99	-5,490.14	1,043.65	290.00	88.97	201.03	1.443 Level 3					
12,400.00	7,806.95	12,348.67	7,806.90	104.37	103.61	89.99	-5,590.13	1,044.25	290.00	85.59	204.41	1.419 Level 3					
12,500.00	7,806.95	12,448.67	7,806.90	106.02	105.29	89.99	-5,690.13	1,044.85	290.00	82.19	207.81	1.396 Level 3					
12,600.00	7,806.95	12,548.67	7,806.90	107.69	106.97	89.99	-5,790.13	1,045.45	290.00	78.80	211.21	1.373 Level 3					
12,700.00	7,806.94	12,648.67	7,806.90	109.35	108.65	89.99	-5,890.13	1,046.05	290.01	75.39	214.61	1.351 Level 3					
12,800.00	7,806.94	12,748.67	7,806.89	111.02	110.34	89.99	-5,990.13	1,046.65	290.01	71.99	218.02	1.330 Level 3					
12,900.00	7,806.94	12,848.67	7,806.89	112.70	112.03	89.99	-6,090.13	1,047.25	290.01	68.58	221.43	1.310 Level 3					
13,000.00	7,806.94	12,948.67	7,806.89	114.37	113.72	89.99	-6,190.12	1,047.85	290.01	65.16	224.85	1.290 Level 3					
13,100.00	7,806.94	13,048.67	7,806.89	116.05	115.41	89.99	-6,290.12	1,048.45	290.01	61.75	228.27	1.270 Level 3					
13,200.00	7,806.94	13,148.67	7,806.88	117.74	117.11	89.99	-6,390.12	1,049.05	290.02	58.32	231.69	1.252 Level 3					
13,300.00	7,806.94	13,248.67	7,806.88	119.42	118.80	89.99	-6,490.12	1,049.65	290.02	54.90	235.12	1.233 Level 2					
13,400.00	7,806.94	13,348.67	7,806.88	121.11	120.50	89.99	-6,590.12	1,050.25	290.02	51.47	238.55	1.216 Level 2					
13,500.00	7,806.93	13,448.67	7,806.88	122.80	122.21	89.99	-6,690.11	1,050.85	290.02	48.03	241.99	1.198 Level 2					
13,600.00	7,806.93	13,548.67	7,806.87	124.49	123.91	89.99	-6,790.11	1,051.45	290.02	44.60	245.43	1.182 Level 2					
13,700.00	7,806.93	13,648.67	7,806.87	126.18	125.62	89.99	-6,890.11	1,052.05	290.03	41.16	248.87	1.165 Level 2					
13,800.00	7,806.93	13,748.67	7,806.87	127.88	127.32	89.99	-6,990.11	1,052.65	290.03	37.72	252.31	1.149 Level 2					
13,900.00	7,806.93	13,848.67	7,806.87	129.58	129.03	89.99	-7,090.11	1,053.25	290.03	34.27	255.76	1.134 Level 2					
14,000.00	7,806.93	13,948.67	7,806.86	131.28	130.75	89.99	-7,190.11	1,053.85	290.03	30.83	259.21	1.119 Level 2					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG												Offset Well Error:	0.00 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
14,100.00	7,806.93	14,048.67	7,806.86	132.98	132.46	89.99	-7,290.10	1,054.44	290.04	27.38	262.66	1.104	Level 2
14,200.00	7,806.93	14,148.67	7,806.86	134.68	134.17	89.99	-7,390.10	1,055.04	290.04	23.92	266.11	1.090	Level 2
14,300.00	7,806.92	14,248.67	7,806.86	136.39	135.89	89.99	-7,490.10	1,055.64	290.04	20.47	269.57	1.076	Level 2
14,400.00	7,806.92	14,348.67	7,806.85	138.10	137.61	89.99	-7,590.10	1,056.24	290.04	17.01	273.03	1.062	Level 2
14,500.00	7,806.92	14,448.67	7,806.85	139.81	139.33	89.99	-7,690.10	1,056.84	290.04	13.55	276.49	1.049	Level 2
14,600.00	7,806.92	14,548.67	7,806.85	141.52	141.05	89.99	-7,790.10	1,057.44	290.05	10.09	279.95	1.036	Level 2
14,700.00	7,806.92	14,648.67	7,806.85	143.23	142.77	89.99	-7,890.09	1,058.04	290.05	6.63	283.42	1.023	Level 2
14,800.00	7,806.92	14,748.67	7,806.84	144.94	144.49	89.99	-7,990.09	1,058.64	290.05	3.16	286.89	1.011	Level 2
14,900.00	7,806.92	14,848.67	7,806.84	146.66	146.21	89.99	-8,090.09	1,059.24	290.05	-0.30	290.36	0.999	Level 1
15,000.00	7,806.92	14,948.67	7,806.84	148.37	147.94	89.99	-8,190.09	1,059.84	290.05	-3.77	293.83	0.987	Level 1
15,100.00	7,806.91	15,048.67	7,806.84	150.09	149.67	89.98	-8,290.09	1,060.44	290.06	-7.25	297.30	0.976	Level 1
15,200.00	7,806.91	15,148.67	7,806.84	151.81	151.39	89.98	-8,390.08	1,061.04	290.06	-10.72	300.78	0.964	Level 1
15,300.00	7,806.91	15,248.67	7,806.83	153.53	153.12	89.98	-8,490.08	1,061.64	290.06	-14.19	304.25	0.953	Level 1
15,400.00	7,806.91	15,348.67	7,806.83	155.25	154.85	89.98	-8,590.08	1,062.24	290.06	-17.67	307.73	0.943	Level 1
15,500.00	7,806.91	15,448.67	7,806.83	156.97	156.58	89.98	-8,690.08	1,062.84	290.07	-21.15	311.21	0.932	Level 1
15,600.00	7,806.91	15,548.67	7,806.83	158.70	158.31	89.98	-8,790.08	1,063.44	290.07	-24.62	314.69	0.922	Level 1
15,700.00	7,806.91	15,648.67	7,806.82	160.42	160.05	89.98	-8,890.08	1,064.04	290.07	-28.10	318.17	0.912	Level 1
15,800.00	7,806.91	15,748.67	7,806.82	162.15	161.78	89.98	-8,990.07	1,064.64	290.07	-31.59	321.66	0.902	Level 1
15,900.00	7,806.90	15,848.67	7,806.82	163.88	163.51	89.98	-9,090.07	1,065.24	290.07	-35.07	325.14	0.892	Level 1
16,000.00	7,806.90	15,948.67	7,806.82	165.60	165.25	89.98	-9,190.07	1,065.84	290.08	-38.55	328.63	0.883	Level 1
16,100.00	7,806.90	16,048.67	7,806.81	167.33	166.98	89.98	-9,290.07	1,066.44	290.08	-42.04	332.12	0.873	Level 1
16,200.00	7,806.90	16,148.67	7,806.81	169.06	168.72	89.98	-9,390.07	1,067.03	290.08	-45.53	335.61	0.864	Level 1
16,300.00	7,806.90	16,248.67	7,806.81	170.79	170.46	89.98	-9,490.06	1,067.63	290.08	-49.01	339.10	0.855	Level 1
16,400.00	7,806.90	16,348.68	7,806.81	172.52	172.19	89.98	-9,590.06	1,068.23	290.08	-52.50	342.59	0.847	Level 1
16,500.00	7,806.90	16,448.68	7,806.80	174.26	173.93	89.98	-9,690.06	1,068.83	290.09	-55.99	346.08	0.838	Level 1
16,600.00	7,806.89	16,548.68	7,806.80	175.99	175.67	89.98	-9,790.06	1,069.43	290.09	-59.49	349.57	0.830	Level 1
16,700.00	7,806.89	16,648.68	7,806.80	177.72	177.41	89.98	-9,890.06	1,070.03	290.09	-62.98	353.07	0.822	Level 1
16,800.00	7,806.89	16,748.68	7,806.80	179.46	179.15	89.98	-9,990.06	1,070.63	290.09	-66.47	356.56	0.814	Level 1
16,900.00	7,806.89	16,848.68	7,806.79	181.19	180.90	89.98	-10,090.05	1,071.23	290.09	-69.97	360.06	0.806	Level 1
17,000.00	7,806.89	16,948.68	7,806.79	182.93	182.64	89.98	-10,190.05	1,071.83	290.10	-73.46	363.56	0.798	Level 1
17,100.00	7,806.89	17,048.68	7,806.79	184.67	184.38	89.98	-10,290.05	1,072.43	290.10	-76.96	367.06	0.790	Level 1
17,200.00	7,806.89	17,148.68	7,806.79	186.40	186.12	89.98	-10,390.05	1,073.03	290.10	-80.45	370.56	0.783	Level 1
17,300.00	7,806.89	17,248.68	7,806.78	188.14	187.87	89.98	-10,490.05	1,073.63	290.10	-83.95	374.06	0.776	Level 1
17,400.00	7,806.88	17,348.68	7,806.78	189.88	189.61	89.98	-10,590.04	1,074.23	290.11	-87.45	377.56	0.768	Level 1
17,500.00	7,806.88	17,448.68	7,806.78	191.62	191.36	89.98	-10,690.04	1,074.83	290.11	-90.95	381.06	0.761	Level 1
17,600.00	7,806.88	17,548.68	7,806.78	193.36	193.10	89.98	-10,790.04	1,075.43	290.11	-94.45	384.56	0.754	Level 1
17,700.00	7,806.88	17,648.68	7,806.77	195.10	194.85	89.98	-10,890.04	1,076.03	290.11	-97.95	388.07	0.748	Level 1
17,800.00	7,806.88	17,748.68	7,806.77	196.84	196.59	89.98	-10,990.04	1,076.63	290.11	-101.46	391.57	0.741	Level 1
17,900.00	7,806.88	17,848.68	7,806.77	198.58	198.34	89.98	-11,090.04	1,077.23	290.12	-104.96	395.07	0.734	Level 1
18,000.00	7,806.88	17,948.07	7,806.92	200.33	200.08	90.01	-11,189.43	1,077.72	290.22	-108.28	398.50	0.728	Level 1
18,026.44	7,806.88	17,974.53	7,807.00	200.79	200.55	90.02	-11,215.89	1,077.83	290.27	-109.15	399.43	0.727	Level 1
18,027.46	7,807.00	17,975.54	7,807.01	200.80	200.56	90.00	-11,216.89	1,077.83	290.01	-109.45	399.46	0.726	Level 1, ES, SF

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.30	53.99	53.99					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.30	53.99	53.99	53.72	0.27	200.802		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.30	53.99	53.99	53.00	0.99	54.764		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.30	53.99	53.99	52.28	1.70	31.706		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.30	53.99	53.99	51.57	2.42	22.311		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.30	53.99	53.99	50.85	3.14	17.212		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.30	53.99	53.99	50.13	3.85	14.009		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.30	53.99	53.99	49.42	4.57	11.812	CC, ES	
800.00	800.00	798.25	798.23	2.64	2.63	90.99	-0.96	55.54	55.57	50.31	5.27	10.548		
900.00	900.00	896.27	896.12	3.00	2.96	92.77	-2.92	60.18	60.37	54.42	5.95	10.138		
1,000.00	1,000.00	993.83	993.32	3.36	3.31	95.19	-6.16	67.86	68.46	61.82	6.64	10.313		
1,100.00	1,099.98	1,090.92	1,089.71	3.71	3.66	-29.79	-10.66	78.52	78.40	71.10	7.30	10.739		
1,200.00	1,199.84	1,187.67	1,185.31	4.04	4.03	-28.72	-16.41	92.13	88.61	80.67	7.95	11.153		
1,300.00	1,299.45	1,284.06	1,280.02	4.39	4.43	-28.32	-23.38	108.65	99.04	90.45	8.59	11.527		
1,400.00	1,398.70	1,380.11	1,373.74	4.74	4.85	-28.40	-31.55	128.01	109.65	100.41	9.24	11.867		
1,500.00	1,497.47	1,475.80	1,466.36	5.12	5.30	-28.82	-40.91	150.17	120.44	110.54	9.90	12.168		
1,600.00	1,595.62	1,571.15	1,557.78	5.51	5.79	-29.50	-51.42	175.07	131.40	120.83	10.57	12.435		
1,700.00	1,693.06	1,666.14	1,647.93	5.94	6.32	-30.37	-63.07	202.65	142.55	131.30	11.25	12.667		
1,800.00	1,789.64	1,760.77	1,736.70	6.39	6.90	-31.38	-75.82	232.86	153.91	141.94	11.97	12.861		
1,863.26	1,850.25	1,820.46	1,792.11	6.70	7.29	-32.07	-84.44	253.29	161.21	148.77	12.43	12.965		
1,900.00	1,885.34	1,855.04	1,824.00	6.89	7.53	-32.49	-89.65	265.61	165.69	152.97	12.71	13.033		
2,000.00	1,980.83	1,948.67	1,909.50	7.41	8.21	-33.30	-104.48	300.74	180.00	166.52	13.48	13.351		
2,100.00	2,076.33	2,043.56	1,994.94	7.95	8.94	-33.70	-120.53	338.78	197.16	182.86	14.31	13.782		
2,200.00	2,171.82	2,141.96	2,083.26	8.50	9.74	-33.98	-137.41	378.75	214.95	199.71	15.23	14.110		
2,300.00	2,267.32	2,240.36	2,171.58	9.07	10.56	-34.23	-154.29	418.72	232.73	216.55	16.18	14.385		
2,400.00	2,362.81	2,338.77	2,259.90	9.64	11.39	-34.43	-171.16	458.70	250.52	233.38	17.14	14.616		
2,500.00	2,458.30	2,437.17	2,348.22	10.22	12.23	-34.61	-188.04	498.67	268.31	250.20	18.11	14.813		
2,600.00	2,553.80	2,535.57	2,436.54	10.81	13.09	-34.77	-204.91	538.64	286.11	267.01	19.10	14.981		
2,700.00	2,649.29	2,633.97	2,524.86	11.41	13.95	-34.91	-221.79	578.61	303.90	283.81	20.09	15.125		
2,800.00	2,744.79	2,732.37	2,613.18	12.01	14.81	-35.03	-238.66	618.59	321.70	300.61	21.09	15.250		
2,900.00	2,840.28	2,830.77	2,701.50	12.61	15.69	-35.14	-255.54	658.56	339.50	317.40	22.10	15.359		
3,000.00	2,935.77	2,929.17	2,789.81	13.22	16.56	-35.24	-272.41	698.53	357.30	334.18	23.12	15.454		
3,100.00	3,031.27	3,027.57	2,878.13	13.83	17.44	-35.33	-289.29	738.50	375.10	350.96	24.14	15.538		
3,200.00	3,126.76	3,125.98	2,966.45	14.44	18.33	-35.42	-306.16	778.47	392.91	367.74	25.17	15.612		
3,300.00	3,222.26	3,224.38	3,054.77	15.06	19.21	-35.49	-323.04	818.45	410.71	384.51	26.20	15.678		
3,400.00	3,317.75	3,322.78	3,143.09	15.68	20.10	-35.56	-339.92	858.42	428.51	401.28	27.23	15.737		
3,500.00	3,413.25	3,421.18	3,231.41	16.30	20.99	-35.62	-356.79	898.39	446.32	418.05	28.27	15.789		
3,600.00	3,508.74	3,519.58	3,319.73	16.92	21.89	-35.68	-373.67	938.36	464.12	434.81	29.31	15.837		
3,700.00	3,604.23	3,617.98	3,408.05	17.54	22.78	-35.74	-390.54	978.34	481.93	451.58	30.35	15.879		
3,800.00	3,699.73	3,716.38	3,496.36	18.17	23.68	-35.79	-407.42	1,018.31	499.73	468.34	31.39	15.918		
3,900.00	3,795.22	3,814.78	3,584.68	18.79	24.57	-35.83	-424.29	1,058.28	517.54	485.09	32.44	15.953		
4,000.00	3,890.72	3,913.18	3,673.00	19.42	25.47	-35.88	-441.17	1,098.25	535.34	501.85	33.49	15.985		
4,100.00	3,986.21	4,011.59	3,761.32	20.05	26.37	-35.92	-458.04	1,138.23	553.15	518.61	34.54	16.014		
4,200.00	4,081.70	4,109.99	3,849.64	20.67	27.27	-35.96	-474.92	1,178.20	570.96	535.36	35.59	16.040		
4,300.00	4,177.20	4,208.39	3,937.96	21.30	28.17	-35.99	-491.79	1,218.17	588.76	552.11	36.65	16.065		
4,400.00	4,272.69	4,306.79	4,026.28	21.93	29.07	-36.03	-508.67	1,258.14	606.57	568.86	37.70	16.087		
4,500.00	4,368.19	4,405.19	4,114.60	22.56	29.98	-36.06	-525.55	1,298.12	624.38	585.61	38.76	16.108		
4,600.00	4,463.68	4,503.59	4,202.91	23.19	30.88	-36.09	-542.42	1,338.09	642.18	602.36	39.82	16.127		
4,700.00	4,559.17	4,601.99	4,291.23	23.83	31.78	-36.12	-559.30	1,378.06	659.99	619.11	40.88	16.145		
4,800.00	4,654.67	4,700.39	4,379.55	24.46	32.69	-36.14	-576.17	1,418.03	677.80	635.86	41.94	16.161		
4,900.00	4,750.16	4,798.80	4,467.87	25.09	33.59	-36.17	-593.05	1,458.01	695.61	652.61	43.00	16.177		
5,000.00	4,845.66	4,897.20	4,556.19	25.72	34.50	-36.19	-609.92	1,497.98	713.41	669.35	44.06	16.191		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,004.40	4,644.51	26.36	35.48	-36.22	-626.80	1,537.95	731.22	686.05	45.18	16.186		
5,200.00	5,036.65	5,094.00	4,732.83	26.99	36.31	-36.24	-643.67	1,577.92	749.03	702.84	46.19	16.216		
5,300.00	5,132.14	5,192.40	4,821.15	27.63	37.22	-36.26	-660.55	1,617.90	766.84	719.58	47.25	16.228		
5,400.00	5,227.63	5,309.20	4,909.47	28.26	38.29	-36.28	-677.42	1,657.87	784.65	736.22	48.42	16.204		
5,500.00	5,323.13	5,389.20	4,997.78	28.90	39.03	-36.30	-694.30	1,697.84	802.46	753.07	49.38	16.249		
5,600.00	5,418.62	5,487.60	5,086.10	29.53	39.94	-36.32	-711.18	1,737.81	820.26	769.81	50.45	16.259		
5,700.00	5,514.12	5,586.00	5,174.42	30.17	40.84	-36.34	-728.05	1,777.79	838.07	786.55	51.52	16.268		
5,800.00	5,609.61	5,684.41	5,262.74	30.80	41.75	-36.35	-744.93	1,817.76	855.88	803.30	52.59	16.276		
5,900.00	5,705.10	5,782.81	5,351.06	31.44	42.66	-36.37	-761.80	1,857.73	873.69	820.04	53.65	16.284		
6,000.00	5,800.60	5,881.21	5,439.38	32.08	43.57	-36.38	-778.68	1,897.70	891.50	836.78	54.72	16.291		
6,100.00	5,896.09	5,979.61	5,527.70	32.71	44.48	-36.40	-795.55	1,937.68	909.31	853.52	55.79	16.299		
6,200.00	5,991.59	6,078.01	5,616.02	33.35	45.39	-36.41	-812.43	1,977.65	927.12	870.26	56.86	16.305		
6,300.00	6,087.08	6,176.41	5,704.33	33.99	46.29	-36.43	-829.30	2,017.62	944.93	887.00	57.93	16.312		
6,400.00	6,182.57	6,274.81	5,792.65	34.62	47.20	-36.44	-846.18	2,057.59	962.73	903.74	59.00	16.318		
6,499.99	6,278.06	6,378.39	5,885.63	35.26	48.16	-36.45	-863.92	2,099.63	980.51	920.38	60.13	16.306		
6,505.95	6,283.75	6,386.95	5,893.35	35.30	48.24	-36.46	-865.37	2,103.06	981.53	921.30	60.23	16.297		
6,600.00	6,374.00	6,522.86	6,017.21	35.88	49.40	-36.68	-887.13	2,154.58	996.75	935.07	61.68	16.160		
6,700.00	6,470.87	6,668.78	6,152.97	36.44	50.53	-36.89	-907.91	2,203.81	1,011.14	948.07	63.07	16.032		
6,800.00	6,568.53	6,816.00	6,292.52	36.96	51.53	-37.06	-926.13	2,246.96	1,023.65	959.36	64.29	15.923		
6,900.00	6,666.89	6,964.35	6,435.40	37.43	52.39	-37.21	-941.64	2,283.71	1,034.22	968.89	65.33	15.832		
7,000.00	6,765.82	7,113.67	6,581.09	37.85	53.14	-37.33	-954.33	2,313.77	1,042.81	976.62	66.19	15.756		
7,100.00	6,865.19	7,263.77	6,729.05	38.22	53.75	-37.42	-964.09	2,336.89	1,049.38	982.52	66.86	15.696		
7,200.00	6,964.89	7,414.43	6,878.70	38.55	54.25	-37.48	-970.84	2,352.89	1,053.91	986.57	67.35	15.649		
7,300.00	7,064.80	7,565.46	7,029.41	38.83	54.62	-37.51	-974.53	2,361.63	1,056.38	988.74	67.64	15.617		
7,369.20	7,134.00	7,670.07	7,134.00	39.00	54.82	-37.51	-975.28	2,363.39	1,056.88	989.15	67.73	15.603		
7,400.00	7,164.80	7,700.87	7,164.80	39.06	54.87	-37.51	-975.28	2,363.39	1,056.88	989.00	67.88	15.569		
7,469.20	7,234.00	7,770.07	7,234.00	39.22	54.99	-37.51	-975.28	2,363.39	1,056.88	988.67	68.21	15.493		
7,500.00	7,264.78	7,801.04	7,264.95	39.29	55.04	-37.51	-976.11	2,363.39	1,056.88	988.50	68.38	15.456		
7,550.00	7,314.53	7,851.31	7,314.96	39.44	55.14	-37.51	-981.03	2,363.42	1,056.88	988.18	68.70	15.383		
7,600.00	7,363.66	7,901.58	7,364.35	39.62	55.26	-37.51	-990.30	2,363.48	1,056.88	987.78	69.10	15.296		
7,650.00	7,411.81	7,951.84	7,412.73	39.82	55.41	-37.51	-1,003.87	2,363.56	1,056.88	987.32	69.56	15.195		
7,700.00	7,458.61	8,002.10	7,459.74	40.06	55.57	-37.51	-1,021.61	2,363.67	1,056.88	986.80	70.08	15.081		
7,750.00	7,503.69	8,052.34	7,504.99	40.32	55.75	-37.51	-1,043.41	2,363.80	1,056.88	986.21	70.67	14.956		
7,800.00	7,546.72	8,102.58	7,548.16	40.60	55.95	-37.51	-1,069.07	2,363.95	1,056.88	985.57	71.31	14.820		
7,850.00	7,587.38	8,152.80	7,588.90	40.92	56.17	-37.51	-1,098.41	2,364.13	1,056.88	984.85	72.02	14.674		
7,900.00	7,625.34	8,203.01	7,626.90	41.25	56.41	-37.51	-1,131.19	2,364.33	1,056.88	984.08	72.79	14.519		
7,950.00	7,660.33	8,253.20	7,661.88	41.61	56.66	-37.51	-1,167.16	2,364.54	1,056.88	983.25	73.62	14.355		
8,000.00	7,692.07	8,303.37	7,693.57	42.00	56.93	-37.51	-1,206.04	2,364.78	1,056.88	982.37	74.50	14.186		
8,050.00	7,720.33	8,353.52	7,721.73	42.40	57.21	-37.51	-1,247.52	2,365.02	1,056.88	981.44	75.44	14.010		
8,100.00	7,744.89	8,403.66	7,746.14	42.83	57.51	-37.51	-1,291.29	2,365.29	1,056.88	980.46	76.42	13.831		
8,150.00	7,765.56	8,453.77	7,766.63	43.27	57.82	-37.51	-1,337.00	2,365.56	1,056.87	979.44	77.43	13.649		
8,200.00	7,782.18	8,503.86	7,783.04	43.74	58.15	-37.51	-1,384.31	2,365.85	1,056.87	978.38	78.49	13.465		
8,250.00	7,794.63	8,553.92	7,795.25	44.22	58.49	-37.51	-1,432.85	2,366.14	1,056.87	977.30	79.58	13.281		
8,300.00	7,802.82	8,603.97	7,803.18	44.71	58.83	-37.51	-1,482.24	2,366.44	1,056.87	976.19	80.68	13.099		
8,350.00	7,806.68	8,653.99	7,806.77	45.21	59.19	-37.51	-1,532.12	2,366.74	1,056.87	975.07	81.80	12.920		
8,369.28	7,807.00	8,673.27	7,807.00	45.40	59.33	-37.51	-1,551.39	2,366.85	1,056.87	974.64	82.24	12.852		
8,400.00	7,807.00	8,703.99	7,807.00	45.72	59.55	-37.51	-1,582.11	2,367.04	1,056.87	973.94	82.93	12.744		
8,500.00	7,807.00	8,803.99	7,807.00	46.77	60.31	-37.51	-1,682.11	2,367.64	1,056.87	971.62	85.25	12.397		
8,600.00	7,807.00	8,903.99	7,807.00	47.86	61.11	-37.51	-1,782.11	2,368.24	1,056.87	969.22	87.65	12.057		
8,700.00	7,807.00	9,003.99	7,807.00	48.99	61.94	-37.51	-1,882.11	2,368.84	1,056.87	966.74	90.13	11.726		
8,800.00	7,806.99	9,103.99	7,806.99	50.16	62.81	-37.51	-1,982.11	2,369.44	1,056.87	964.19	92.68	11.404		
8,900.00	7,806.99	9,203.99	7,806.99	51.37	63.72	-37.51	-2,082.10	2,370.04	1,056.87	961.58	95.29	11.091		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,303.99	7,806.99	52.60	64.66	-90.00	-2,182.10	2,370.64	1,056.87	958.91	97.96	10.789		
9,100.00	7,806.99	9,403.99	7,806.99	53.87	65.63	-90.00	-2,282.10	2,371.25	1,056.87	956.19	100.68	10.497		
9,200.00	7,806.99	9,503.99	7,806.99	55.17	66.64	-90.00	-2,382.10	2,371.85	1,056.87	953.41	103.46	10.216		
9,300.00	7,806.99	9,603.99	7,806.99	56.49	67.67	-90.00	-2,482.10	2,372.45	1,056.87	950.59	106.28	9.945		
9,400.00	7,806.99	9,703.99	7,806.99	57.83	68.74	-90.00	-2,582.10	2,373.05	1,056.87	947.73	109.14	9.684		
9,500.00	7,806.99	9,803.99	7,806.99	59.20	69.84	-90.00	-2,682.09	2,373.65	1,056.87	944.83	112.04	9.433		
9,600.00	7,806.98	9,903.99	7,806.98	60.59	70.96	-90.00	-2,782.09	2,374.25	1,056.87	941.89	114.98	9.192		
9,700.00	7,806.98	10,003.99	7,806.98	62.00	72.12	-90.00	-2,882.09	2,374.85	1,056.87	938.92	117.95	8.961		
9,800.00	7,806.98	10,103.99	7,806.98	63.43	73.29	-90.00	-2,982.09	2,375.46	1,056.87	935.92	120.95	8.738		
9,900.00	7,806.98	10,203.99	7,806.98	64.87	74.50	-90.00	-3,082.09	2,376.06	1,056.87	932.89	123.98	8.525		
10,000.00	7,806.98	10,303.99	7,806.98	66.34	75.72	-90.00	-3,182.08	2,376.66	1,056.87	929.84	127.03	8.320		
10,100.00	7,806.98	10,403.99	7,806.98	67.81	76.97	-90.00	-3,282.08	2,377.26	1,056.87	926.75	130.11	8.123		
10,200.00	7,806.98	10,503.99	7,806.98	69.30	78.24	-90.00	-3,382.08	2,377.86	1,056.87	923.65	133.22	7.933		
10,300.00	7,806.98	10,603.99	7,806.98	70.81	79.53	-90.00	-3,482.08	2,378.46	1,056.87	920.52	136.35	7.751		
10,400.00	7,806.97	10,703.99	7,806.97	72.32	80.84	-90.00	-3,582.08	2,379.06	1,056.87	917.38	139.49	7.577		
10,500.00	7,806.97	10,803.99	7,806.97	73.85	82.17	-90.00	-3,682.08	2,379.66	1,056.87	914.21	142.66	7.408		
10,600.00	7,806.97	10,903.99	7,806.97	75.39	83.52	-90.00	-3,782.07	2,380.27	1,056.87	911.03	145.84	7.247		
10,700.00	7,806.97	11,003.99	7,806.97	76.94	84.88	-90.00	-3,882.07	2,380.87	1,056.87	907.83	149.04	7.091		
10,800.00	7,806.97	11,103.99	7,806.97	78.49	86.26	-90.00	-3,982.07	2,381.47	1,056.87	904.61	152.25	6.942		
10,900.00	7,806.97	11,203.99	7,806.97	80.06	87.66	-90.00	-4,082.07	2,382.07	1,056.87	901.39	155.48	6.797		
11,000.00	7,806.97	11,303.99	7,806.97	81.64	89.07	-90.00	-4,182.07	2,382.67	1,056.87	898.14	158.72	6.659		
11,100.00	7,806.97	11,403.99	7,806.97	83.22	90.49	-90.00	-4,282.06	2,383.27	1,056.87	894.89	161.98	6.525		
11,200.00	7,806.96	11,503.99	7,806.96	84.81	91.92	-90.00	-4,382.06	2,383.87	1,056.86	891.62	165.24	6.396		
11,300.00	7,806.96	11,603.99	7,806.96	86.41	93.37	-90.00	-4,482.06	2,384.47	1,056.86	888.34	168.52	6.271		
11,400.00	7,806.96	11,703.99	7,806.96	88.01	94.83	-90.00	-4,582.06	2,385.08	1,056.86	885.05	171.81	6.151		
11,500.00	7,806.96	11,803.99	7,806.96	89.63	96.30	-90.00	-4,682.06	2,385.68	1,056.86	881.76	175.11	6.035		
11,600.00	7,806.96	11,903.99	7,806.96	91.24	97.79	-90.00	-4,782.06	2,386.28	1,056.86	878.45	178.42	5.924		
11,700.00	7,806.96	12,003.99	7,806.96	92.87	99.28	-90.00	-4,882.05	2,386.88	1,056.86	875.13	181.73	5.815		
11,800.00	7,806.96	12,103.99	7,806.96	94.49	100.78	-90.00	-4,982.05	2,387.48	1,056.86	871.80	185.06	5.711		
11,900.00	7,806.95	12,203.99	7,806.96	96.13	102.29	-90.00	-5,082.05	2,388.08	1,056.86	868.47	188.39	5.610		
12,000.00	7,806.95	12,303.99	7,806.95	97.77	103.81	-90.00	-5,182.05	2,388.68	1,056.86	865.13	191.73	5.512		
12,100.00	7,806.95	12,403.99	7,806.95	99.41	105.34	-90.00	-5,282.05	2,389.29	1,056.86	861.78	195.08	5.418		
12,200.00	7,806.95	12,503.99	7,806.95	101.06	106.88	-90.00	-5,382.04	2,389.89	1,056.86	858.42	198.44	5.326		
12,300.00	7,806.95	12,603.99	7,806.95	102.71	108.42	-90.00	-5,482.04	2,390.49	1,056.86	855.06	201.80	5.237		
12,400.00	7,806.95	12,703.99	7,806.95	104.37	109.98	-90.00	-5,582.04	2,391.09	1,056.86	851.69	205.17	5.151		
12,500.00	7,806.95	12,803.99	7,806.95	106.02	111.54	-90.00	-5,682.04	2,391.69	1,056.86	848.32	208.54	5.068		
12,600.00	7,806.95	12,903.99	7,806.95	107.69	113.10	-90.00	-5,782.04	2,392.29	1,056.86	844.94	211.92	4.987		
12,700.00	7,806.94	13,003.99	7,806.95	109.35	114.67	-90.00	-5,882.04	2,392.89	1,056.86	841.56	215.30	4.909		
12,800.00	7,806.94	13,103.99	7,806.94	111.02	116.25	-90.00	-5,982.03	2,393.49	1,056.86	838.17	218.69	4.833		
12,900.00	7,806.94	13,203.99	7,806.94	112.70	117.84	-90.00	-6,082.03	2,394.10	1,056.86	834.77	222.09	4.759		
13,000.00	7,806.94	13,303.99	7,806.94	114.37	119.43	-90.00	-6,182.03	2,394.70	1,056.86	831.37	225.49	4.687		
13,100.00	7,806.94	13,403.99	7,806.94	116.05	121.02	-90.00	-6,282.03	2,395.30	1,056.86	827.97	228.89	4.617		
13,200.00	7,806.94	13,503.99	7,806.94	117.74	122.62	-90.00	-6,382.03	2,395.90	1,056.86	824.56	232.30	4.550		
13,300.00	7,806.94	13,603.99	7,806.94	119.42	124.23	-90.00	-6,482.02	2,396.50	1,056.86	821.15	235.71	4.484		
13,400.00	7,806.94	13,703.99	7,806.94	121.11	125.84	-90.00	-6,582.02	2,397.10	1,056.86	817.73	239.13	4.420		
13,500.00	7,806.93	13,803.99	7,806.94	122.80	127.46	-90.00	-6,682.02	2,397.70	1,056.86	814.31	242.55	4.357		
13,600.00	7,806.93	13,903.99	7,806.93	124.49	129.07	-90.00	-6,782.02	2,398.31	1,056.86	810.89	245.97	4.297		
13,700.00	7,806.93	14,003.99	7,806.93	126.18	130.70	-90.00	-6,882.02	2,398.91	1,056.86	807.46	249.40	4.238		
13,800.00	7,806.93	14,103.99	7,806.93	127.88	132.33	-90.00	-6,982.02	2,399.51	1,056.86	804.03	252.83	4.180		
13,900.00	7,806.93	14,203.99	7,806.93	129.58	133.96	-90.00	-7,082.01	2,400.11	1,056.86	800.60	256.26	4.124		
14,000.00	7,806.93	14,303.99	7,806.93	131.28	135.59	-90.00	-7,182.01	2,400.71	1,056.86	797.16	259.70	4.070		
14,100.00	7,806.93	14,403.99	7,806.93	132.98	137.23	-90.00	-7,282.01	2,401.31	1,056.86	793.72	263.14	4.016		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE - PROPOSAL 1													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	14,503.99	7,806.93	134.68	138.88	-90.00	-7,382.01	2,401.91	1,056.86	790.28	266.58	3.965		
14,300.00	7,806.92	14,603.99	7,806.93	136.39	140.52	-90.00	-7,482.01	2,402.51	1,056.86	786.83	270.02	3.914		
14,400.00	7,806.92	14,703.99	7,806.92	138.10	142.17	-90.00	-7,582.00	2,403.12	1,056.85	783.39	273.47	3.865		
14,500.00	7,806.92	14,803.99	7,806.92	139.81	143.82	-90.00	-7,682.00	2,403.72	1,056.85	779.94	276.92	3.816		
14,600.00	7,806.92	14,903.99	7,806.92	141.52	145.48	-90.00	-7,782.00	2,404.32	1,056.85	776.48	280.37	3.769		
14,700.00	7,806.92	15,003.99	7,806.92	143.23	147.14	-90.00	-7,882.00	2,404.92	1,056.85	773.03	283.83	3.724		
14,800.00	7,806.92	15,103.99	7,806.92	144.94	148.80	-90.00	-7,982.00	2,405.52	1,056.85	769.57	287.28	3.679		
14,900.00	7,806.92	15,203.99	7,806.92	146.66	150.46	-90.00	-8,082.00	2,406.12	1,056.85	766.11	290.74	3.635		
15,000.00	7,806.92	15,303.99	7,806.92	148.37	152.13	-90.00	-8,181.99	2,406.72	1,056.85	762.65	294.20	3.592		
15,100.00	7,806.91	15,403.99	7,806.92	150.09	153.80	-90.00	-8,281.99	2,407.32	1,056.85	759.19	297.66	3.550		
15,200.00	7,806.91	15,503.99	7,806.91	151.81	155.47	-90.00	-8,381.99	2,407.93	1,056.85	755.72	301.13	3.510		
15,300.00	7,806.91	15,603.99	7,806.91	153.53	157.14	-90.00	-8,481.99	2,408.53	1,056.85	752.26	304.60	3.470		
15,400.00	7,806.91	15,703.99	7,806.91	155.25	158.82	-90.00	-8,581.99	2,409.13	1,056.85	748.79	308.06	3.431		
15,500.00	7,806.91	15,803.99	7,806.91	156.97	160.49	-90.00	-8,681.98	2,409.73	1,056.85	745.32	311.53	3.392		
15,600.00	7,806.91	15,903.99	7,806.91	158.70	162.17	-90.00	-8,781.98	2,410.33	1,056.85	741.85	315.01	3.355		
15,700.00	7,806.91	16,003.99	7,806.91	160.42	163.86	-90.00	-8,881.98	2,410.93	1,056.85	738.37	318.48	3.318		
15,800.00	7,806.91	16,103.99	7,806.91	162.15	165.54	-90.00	-8,981.98	2,411.53	1,056.85	734.90	321.95	3.283		
15,900.00	7,806.90	16,203.99	7,806.91	163.88	167.23	-90.00	-9,081.98	2,412.14	1,056.85	731.42	325.43	3.248		
16,000.00	7,806.90	16,303.99	7,806.90	165.60	168.91	-90.00	-9,181.98	2,412.74	1,056.85	727.94	328.91	3.213		
16,100.00	7,806.90	16,403.99	7,806.90	167.33	170.60	-90.00	-9,281.97	2,413.34	1,056.85	724.46	332.39	3.180		
16,200.00	7,806.90	16,503.99	7,806.90	169.06	172.29	-90.00	-9,381.97	2,413.94	1,056.85	720.98	335.87	3.147		
16,300.00	7,806.90	16,603.99	7,806.90	170.79	173.99	-90.00	-9,481.97	2,414.54	1,056.85	717.50	339.35	3.114		
16,400.00	7,806.90	16,703.99	7,806.90	172.52	175.68	-90.00	-9,581.97	2,415.14	1,056.85	714.01	342.83	3.083		
16,500.00	7,806.90	16,803.99	7,806.90	174.26	177.38	-90.00	-9,681.97	2,415.74	1,056.85	710.53	346.32	3.052		
16,600.00	7,806.89	16,903.99	7,806.90	175.99	179.08	-90.00	-9,781.97	2,416.34	1,056.85	707.04	349.81	3.021		
16,700.00	7,806.89	17,003.99	7,806.90	177.72	180.78	-90.00	-9,881.96	2,416.95	1,056.85	703.56	353.29	2.991		
16,800.00	7,806.89	17,103.99	7,806.89	179.46	182.48	-90.00	-9,981.96	2,417.55	1,056.85	700.07	356.78	2.962		
16,900.00	7,806.89	17,203.99	7,806.89	181.19	184.18	-90.00	-10,081.96	2,418.15	1,056.85	696.58	360.27	2.933		
17,000.00	7,806.89	17,303.99	7,806.89	182.93	185.88	-90.00	-10,181.96	2,418.75	1,056.85	693.09	363.76	2.905		
17,100.00	7,806.89	17,403.99	7,806.89	184.67	187.59	-90.00	-10,281.96	2,419.35	1,056.85	689.59	367.25	2.878		
17,200.00	7,806.89	17,503.99	7,806.89	186.40	189.29	-90.00	-10,381.95	2,419.95	1,056.85	686.10	370.74	2.851		
17,300.00	7,806.89	17,603.99	7,806.89	188.14	191.00	-90.00	-10,481.95	2,420.55	1,056.85	682.61	374.24	2.824		
17,400.00	7,806.88	17,703.99	7,806.88	189.88	192.71	-90.00	-10,581.95	2,421.16	1,056.85	679.11	377.73	2.798		
17,500.00	7,806.88	17,803.99	7,806.89	191.62	194.42	-90.00	-10,681.95	2,421.76	1,056.85	675.62	381.23	2.772		
17,600.00	7,806.88	17,903.99	7,806.88	193.36	196.13	-90.00	-10,781.95	2,422.36	1,056.84	672.12	384.72	2.747		
17,700.00	7,806.88	18,003.99	7,806.88	195.10	197.84	-90.00	-10,881.95	2,422.96	1,056.84	668.62	388.22	2.722		
17,800.00	7,806.88	18,103.99	7,806.88	196.84	199.56	-90.00	-10,981.94	2,423.56	1,056.84	665.12	391.72	2.698		
17,900.00	7,806.88	18,203.99	7,806.88	198.58	201.27	-90.00	-11,081.94	2,424.16	1,056.84	661.62	395.22	2.674		
18,000.00	7,806.88	18,303.99	7,806.88	200.33	202.99	-90.00	-11,181.94	2,424.76	1,056.84	658.12	398.72	2.651		
18,005.91	7,806.88	18,309.89	7,806.88	200.43	203.09	-90.00	-11,187.85	2,424.80	1,056.84	657.92	398.93	2.649		
18,027.46	7,807.00	18,325.69	7,806.96	200.80	203.36	-90.00	-11,203.64	2,425.03	1,057.27	657.38	399.89	2.644 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.40	71.98	71.98					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.40	71.98	71.98	71.71	0.27	267.735		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.40	71.98	71.98	71.00	0.99	73.019		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.40	71.98	71.98	70.28	1.70	42.274		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.40	71.98	71.98	69.56	2.42	29.748		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.40	71.98	71.98	68.85	3.14	22.949		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.40	71.98	71.98	68.13	3.85	18.679	CC, ES	
700.00	700.00	697.65	697.63	2.29	2.27	90.76	-0.97	73.54	73.59	69.04	4.55	16.171		
800.00	800.00	795.08	794.93	2.64	2.60	91.96	-2.68	78.22	78.43	73.19	5.24	14.973		
900.00	900.00	892.05	891.55	3.00	2.95	93.66	-5.50	85.95	86.54	80.62	5.92	14.611		
1,000.00	1,000.00	988.36	987.17	3.36	3.30	95.56	-9.41	96.67	97.97	91.37	6.60	14.837		
1,100.00	1,099.98	1,084.05	1,081.75	3.71	3.67	-29.87	-14.38	110.31	111.23	103.97	7.26	15.319		
1,200.00	1,199.84	1,179.29	1,175.35	4.04	4.07	-29.06	-20.41	126.81	124.75	116.85	7.90	15.788		
1,300.00	1,299.45	1,274.08	1,267.88	4.39	4.49	-28.78	-27.46	146.14	138.46	129.92	8.54	16.208		
1,400.00	1,398.70	1,368.43	1,359.25	4.74	4.94	-28.89	-35.52	168.22	152.35	143.16	9.19	16.584		
1,500.00	1,497.47	1,462.33	1,449.37	5.12	5.43	-29.29	-44.55	192.98	166.39	156.55	9.84	16.910		
1,600.00	1,595.62	1,555.78	1,538.14	5.51	5.96	-29.89	-54.55	220.37	180.61	170.10	10.50	17.192		
1,700.00	1,693.06	1,648.77	1,625.50	5.94	6.53	-30.66	-65.47	250.32	194.99	183.81	11.19	17.429		
1,800.00	1,789.64	1,741.32	1,711.37	6.39	7.15	-31.54	-77.31	282.75	209.57	197.68	11.90	17.618		
1,863.26	1,850.25	1,799.64	1,764.88	6.70	7.56	-32.15	-85.25	304.51	218.90	206.54	12.36	17.714		
1,900.00	1,885.34	1,833.40	1,795.65	6.89	7.82	-32.55	-90.02	317.58	224.56	211.92	12.63	17.773		
2,000.00	1,980.83	1,924.70	1,877.99	7.41	8.53	-33.38	-103.53	354.61	242.05	228.66	13.40	18.066		
2,100.00	2,076.33	2,016.75	1,959.74	7.95	9.31	-33.92	-118.03	394.35	262.48	248.28	14.20	18.479		
2,200.00	2,171.82	2,114.43	2,046.07	8.50	10.17	-34.35	-133.70	437.28	283.80	268.66	15.15	18.739		
2,300.00	2,267.32	2,212.11	2,132.40	9.07	11.05	-34.71	-149.36	480.22	305.14	289.03	16.11	18.946		
2,400.00	2,362.81	2,309.79	2,218.73	9.64	11.94	-35.03	-165.03	523.15	326.49	309.40	17.08	19.113		
2,500.00	2,458.30	2,407.47	2,305.06	10.22	12.84	-35.31	-180.69	566.08	347.84	329.77	18.07	19.248		
2,600.00	2,553.80	2,505.15	2,391.39	10.81	13.76	-35.56	-196.36	609.01	369.20	350.13	19.07	19.357		
2,700.00	2,649.29	2,602.83	2,477.72	11.41	14.68	-35.78	-212.02	651.94	390.57	370.48	20.09	19.445		
2,800.00	2,744.79	2,700.51	2,564.05	12.01	15.60	-35.98	-227.69	694.87	411.94	390.84	21.11	19.517		
2,900.00	2,840.28	2,801.82	2,650.38	12.61	16.57	-36.16	-243.35	737.81	433.32	411.16	22.16	19.558		
3,000.00	2,935.77	2,904.14	2,736.71	13.22	17.55	-36.32	-259.02	780.74	454.70	431.48	23.22	19.585		
3,100.00	3,031.27	3,006.46	2,823.04	13.83	18.53	-36.46	-274.68	823.67	476.09	451.80	24.28	19.604		
3,200.00	3,126.76	3,108.78	2,909.37	14.44	19.52	-36.60	-290.35	866.60	497.47	472.11	25.36	19.618		
3,300.00	3,222.26	3,188.90	2,995.70	15.06	20.29	-36.72	-306.01	909.53	518.86	492.55	26.31	19.721		
3,400.00	3,317.75	3,286.58	3,082.03	15.68	21.24	-36.84	-321.68	952.47	540.25	512.89	27.37	19.742		
3,500.00	3,413.25	3,384.26	3,168.35	16.30	22.19	-36.94	-337.35	995.40	561.64	533.22	28.42	19.759		
3,600.00	3,508.74	3,481.94	3,254.68	16.92	23.14	-37.04	-353.01	1,038.33	583.04	553.55	29.49	19.773		
3,700.00	3,604.23	3,579.62	3,341.01	17.54	24.09	-37.13	-368.68	1,081.26	604.44	573.88	30.55	19.784		
3,800.00	3,699.73	3,677.30	3,427.34	18.17	25.04	-37.21	-384.34	1,124.19	625.83	594.21	31.62	19.792		
3,900.00	3,795.22	3,774.98	3,513.67	18.79	26.00	-37.29	-400.01	1,167.12	647.23	614.54	32.69	19.799		
4,000.00	3,890.72	3,872.66	3,600.00	19.42	26.95	-37.36	-415.67	1,210.06	668.63	634.87	33.76	19.804		
4,100.00	3,986.21	3,970.34	3,686.33	20.05	27.91	-37.43	-431.34	1,252.99	690.03	655.20	34.84	19.808		
4,200.00	4,081.70	4,068.02	3,772.66	20.67	28.86	-37.50	-447.00	1,295.92	711.43	675.52	35.91	19.810		
4,300.00	4,177.20	4,165.70	3,858.99	21.30	29.82	-37.56	-462.67	1,338.85	732.84	695.84	36.99	19.811		
4,400.00	4,272.69	4,263.38	3,945.32	21.93	30.78	-37.62	-478.33	1,381.78	754.24	716.17	38.07	19.812		
4,500.00	4,368.19	4,361.06	4,031.65	22.56	31.74	-37.67	-494.00	1,424.72	775.64	736.49	39.15	19.811		
4,600.00	4,463.68	4,458.74	4,117.98	23.19	32.70	-37.72	-509.66	1,467.65	797.05	756.81	40.23	19.810		
4,700.00	4,559.17	4,556.42	4,204.31	23.83	33.66	-37.77	-525.33	1,510.58	818.45	777.14	41.32	19.809		
4,800.00	4,654.67	4,654.10	4,290.64	24.46	34.62	-37.82	-541.00	1,553.51	839.86	797.46	42.40	19.807		
4,900.00	4,750.16	4,751.78	4,376.97	25.09	35.58	-37.86	-556.66	1,596.44	861.26	817.78	43.49	19.805		
5,000.00	4,845.66	4,849.46	4,463.30	25.72	36.54	-37.90	-572.33	1,639.38	882.67	838.10	44.57	19.802		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,947.14	4,549.63	26.36	37.50	-37.94	-587.99	1,682.31	904.08	858.42	45.66	19.799		
5,200.00	5,036.65	5,044.82	4,635.96	26.99	38.46	-37.98	-603.66	1,725.24	925.49	878.74	46.75	19.796		
5,300.00	5,132.14	5,142.50	4,722.29	27.63	39.42	-38.02	-619.32	1,768.17	946.89	899.05	47.84	19.793		
5,400.00	5,227.63	5,240.18	4,808.62	28.26	40.39	-38.05	-634.99	1,811.10	968.30	919.37	48.93	19.790		
5,500.00	5,323.13	5,337.86	4,894.95	28.90	41.35	-38.09	-650.65	1,854.03	989.71	939.69	50.02	19.786		
5,600.00	5,418.62	5,435.54	4,981.28	29.53	42.31	-38.12	-666.32	1,896.97	1,011.12	960.01	51.11	19.783		
5,700.00	5,514.12	5,533.22	5,067.61	30.17	43.28	-38.15	-681.98	1,939.90	1,032.53	980.32	52.20	19.779		
5,800.00	5,609.61	5,630.90	5,153.94	30.80	44.24	-38.18	-697.65	1,982.83	1,053.94	1,000.64	53.30	19.775		
5,900.00	5,705.10	5,728.58	5,240.27	31.44	45.20	-38.20	-713.31	2,025.76	1,075.35	1,020.96	54.39	19.771		
6,000.00	5,800.60	5,826.26	5,326.60	32.08	46.17	-38.23	-728.98	2,068.69	1,096.76	1,041.27	55.48	19.768		
6,100.00	5,896.09	5,923.94	5,412.93	32.71	47.13	-38.26	-744.64	2,111.63	1,118.17	1,061.59	56.58	19.764		
6,200.00	5,991.59	6,021.62	5,499.26	33.35	48.10	-38.28	-760.31	2,154.56	1,139.58	1,081.91	57.67	19.760		
6,300.00	6,087.08	6,119.30	5,585.59	33.99	49.06	-38.31	-775.98	2,197.49	1,160.99	1,102.22	58.77	19.756		
6,400.00	6,182.57	6,216.98	5,671.92	34.62	50.03	-38.33	-791.64	2,240.42	1,182.40	1,122.54	59.86	19.752		
6,499.99	6,278.06	6,314.65	5,758.24	35.26	50.99	-38.35	-807.30	2,283.35	1,203.81	1,142.85	60.96	19.748		
6,505.95	6,283.75	6,320.47	5,763.38	35.30	51.05	-38.35	-808.24	2,285.91	1,205.08	1,144.06	61.02	19.748		
6,600.00	6,374.00	6,412.07	5,844.34	35.88	51.95	-38.60	-822.93	2,326.17	1,226.40	1,164.38	62.01	19.776		
6,700.00	6,470.87	6,508.79	5,929.82	36.44	52.91	-38.80	-838.44	2,368.68	1,251.63	1,188.65	62.98	19.873		
6,800.00	6,568.53	6,604.71	6,014.59	36.96	53.86	-38.94	-853.82	2,410.83	1,279.51	1,215.65	63.86	20.036		
6,900.00	6,666.89	6,736.22	6,131.42	37.43	55.12	-38.92	-874.52	2,467.55	1,309.31	1,244.25	65.06	20.124		
7,000.00	6,765.82	6,903.95	6,284.02	37.85	56.59	-38.76	-898.35	2,532.87	1,337.19	1,270.71	66.48	20.113		
7,100.00	6,865.19	7,075.81	6,444.34	38.22	57.89	-38.58	-919.56	2,590.98	1,362.44	1,294.74	67.70	20.126		
7,200.00	6,964.89	7,251.59	6,611.85	38.55	59.02	-38.38	-937.80	2,640.97	1,384.89	1,316.20	68.68	20.164		
7,300.00	7,064.80	7,431.01	6,785.85	38.83	59.97	-38.15	-952.75	2,681.94	1,404.40	1,334.98	69.42	20.229		
7,369.20	7,134.00	7,557.11	6,909.62	39.00	60.52	89.03	-961.01	2,704.57	1,416.12	1,346.34	69.78	20.295		
7,400.00	7,164.80	7,613.73	6,965.52	39.06	60.75	89.16	-964.10	2,713.07	1,420.72	1,350.82	69.89	20.327		
7,469.20	7,234.00	7,742.17	7,092.89	39.22	61.17	89.39	-969.73	2,728.48	1,428.99	1,358.90	70.09	20.389		
7,500.00	7,264.78	7,799.77	7,150.22	39.29	61.35	-89.97	-971.61	2,733.64	1,431.75	1,361.57	70.18	20.402		
7,550.00	7,314.53	7,893.33	7,243.56	39.44	61.58	-89.92	-973.83	2,739.72	1,434.99	1,364.59	70.40	20.384		
7,600.00	7,363.66	7,985.92	7,336.08	39.62	61.76	-90.37	-975.00	2,742.91	1,436.75	1,366.03	70.72	20.316		
7,650.00	7,411.81	8,061.65	7,411.81	39.82	61.89	-91.11	-975.20	2,743.48	1,437.26	1,366.01	71.25	20.172		
7,700.00	7,458.61	8,108.45	7,458.61	40.06	61.95	-91.71	-975.20	2,743.48	1,437.73	1,365.63	72.10	19.941		
7,750.00	7,503.69	8,154.71	7,504.87	40.32	62.02	-92.42	-975.29	2,743.48	1,438.59	1,365.51	73.08	19.685		
7,800.00	7,546.72	8,206.44	7,556.48	40.60	62.11	-93.23	-978.51	2,743.50	1,439.84	1,365.75	74.09	19.433		
7,850.00	7,587.38	8,260.81	7,610.17	40.92	62.23	-94.04	-986.90	2,743.55	1,441.44	1,366.33	75.11	19.191		
7,900.00	7,625.34	8,318.16	7,665.69	41.25	62.37	-94.85	-1,001.22	2,743.64	1,443.34	1,367.24	76.10	18.966		
7,950.00	7,660.33	8,378.89	7,722.59	41.61	62.54	-95.66	-1,022.34	2,743.77	1,445.50	1,368.46	77.04	18.763		
8,000.00	7,692.07	8,443.38	7,780.21	42.00	62.76	-96.46	-1,051.23	2,743.94	1,447.84	1,369.95	77.89	18.588		
8,050.00	7,720.33	8,512.00	7,837.54	42.40	63.01	-97.24	-1,088.86	2,744.17	1,450.29	1,371.67	78.62	18.446		
8,100.00	7,744.89	8,585.03	7,893.15	42.83	63.31	-97.99	-1,136.13	2,744.46	1,452.73	1,373.53	79.21	18.341		
8,150.00	7,765.56	8,662.61	7,945.13	43.27	63.67	-98.68	-1,193.64	2,744.81	1,455.05	1,375.42	79.62	18.274		
8,200.00	7,782.18	8,744.63	7,991.10	43.74	64.08	-99.29	-1,261.48	2,745.22	1,457.10	1,377.22	79.88	18.241		
8,250.00	7,794.63	8,830.66	8,028.41	44.22	64.55	-99.78	-1,338.90	2,745.69	1,458.76	1,378.76	80.01	18.233		
8,300.00	7,802.82	8,919.87	8,054.41	44.71	65.07	-100.12	-1,424.15	2,746.20	1,459.91	1,379.85	80.06	18.235		
8,350.00	7,806.68	9,011.08	8,067.00	45.21	65.63	-100.28	-1,514.38	2,746.75	1,460.46	1,380.34	80.12	18.228		
8,369.28	7,807.00	9,046.47	8,068.00	45.40	65.86	-100.29	-1,549.76	2,746.96	1,460.50	1,380.33	80.17	18.218		
8,373.27	7,807.00	9,053.80	8,067.93	45.44	65.91	-100.29	-1,557.08	2,747.01	1,460.49	1,380.31	80.18	18.215		
8,400.00	7,807.00	9,076.49	8,068.00	45.72	66.05	-100.29	-1,579.77	2,747.14	1,460.50	1,379.65	80.85	18.065		
8,500.00	7,807.00	9,176.49	8,068.00	46.77	66.72	-100.29	-1,679.77	2,747.75	1,460.50	1,377.43	83.07	17.581		
8,600.00	7,807.00	9,276.49	8,067.99	47.86	67.43	-100.29	-1,779.77	2,748.36	1,460.51	1,375.13	85.38	17.107		
8,700.00	7,807.00	9,376.49	8,067.99	48.99	68.17	-100.29	-1,879.77	2,748.96	1,460.51	1,372.75	87.76	16.642		
8,800.00	7,806.99	9,476.49	8,067.99	50.16	68.94	-100.29	-1,979.76	2,749.57	1,460.51	1,370.29	90.22	16.188		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	9,576.49	8,067.99	51.37	69.75	-100.29	-2,079.76	2,750.17	1,460.52	1,367.77	92.74	15.748		
9,000.00	7,806.99	9,676.49	8,067.99	52.60	70.59	-100.29	-2,179.76	2,750.78	1,460.52	1,365.19	95.33	15.321		
9,100.00	7,806.99	9,776.49	8,067.98	53.87	71.46	-100.29	-2,279.76	2,751.38	1,460.53	1,362.55	97.97	14.907		
9,200.00	7,806.99	9,876.49	8,067.98	55.17	72.36	-100.29	-2,379.76	2,751.99	1,460.53	1,359.86	100.67	14.508		
9,300.00	7,806.99	9,976.49	8,067.98	56.49	73.29	-100.29	-2,479.76	2,752.60	1,460.53	1,357.12	103.41	14.124		
9,400.00	7,806.99	10,076.49	8,067.98	57.83	74.25	-100.29	-2,579.75	2,753.20	1,460.54	1,354.34	106.20	13.753		
9,500.00	7,806.99	10,176.49	8,067.97	59.20	75.25	-100.29	-2,679.75	2,753.81	1,460.54	1,351.51	109.03	13.396		
9,600.00	7,806.98	10,276.49	8,067.97	60.59	76.27	-100.29	-2,779.75	2,754.41	1,460.54	1,348.65	111.89	13.053		
9,700.00	7,806.98	10,376.49	8,067.97	62.00	77.31	-100.29	-2,879.75	2,755.02	1,460.55	1,345.75	114.79	12.723		
9,800.00	7,806.98	10,476.49	8,067.97	63.43	78.39	-100.29	-2,979.75	2,755.62	1,460.55	1,342.82	117.73	12.406		
9,900.00	7,806.98	10,576.49	8,067.96	64.87	79.49	-100.29	-3,079.74	2,756.23	1,460.55	1,339.86	120.69	12.102		
10,000.00	7,806.98	10,676.49	8,067.96	66.34	80.62	-100.29	-3,179.74	2,756.83	1,460.56	1,336.88	123.68	11.809		
10,100.00	7,806.98	10,776.49	8,067.96	67.81	81.77	-100.29	-3,279.74	2,757.44	1,460.56	1,333.86	126.70	11.528		
10,200.00	7,806.98	10,876.49	8,067.96	69.30	82.94	-100.29	-3,379.74	2,758.05	1,460.57	1,330.83	129.74	11.258		
10,300.00	7,806.98	10,976.49	8,067.95	70.81	84.13	-100.29	-3,479.74	2,758.65	1,460.57	1,327.76	132.81	10.998		
10,400.00	7,806.97	11,076.49	8,067.95	72.32	85.35	-100.29	-3,579.74	2,759.26	1,460.57	1,324.68	135.89	10.748		
10,500.00	7,806.97	11,176.49	8,067.95	73.85	86.59	-100.29	-3,679.73	2,759.86	1,460.58	1,321.58	139.00	10.508		
10,600.00	7,806.97	11,276.49	8,067.95	75.39	87.84	-100.29	-3,779.73	2,760.47	1,460.58	1,318.46	142.12	10.277		
10,700.00	7,806.97	11,376.49	8,067.95	76.94	89.12	-100.29	-3,879.73	2,761.07	1,460.58	1,315.33	145.26	10.055		
10,800.00	7,806.97	11,476.49	8,067.94	78.49	90.42	-100.29	-3,979.73	2,761.68	1,460.59	1,312.17	148.42	9.841		
10,900.00	7,806.97	11,576.49	8,067.94	80.06	91.73	-100.29	-4,079.73	2,762.28	1,460.59	1,309.01	151.59	9.635		
11,000.00	7,806.97	11,676.49	8,067.94	81.64	93.06	-100.29	-4,179.72	2,762.89	1,460.60	1,305.82	154.77	9.437		
11,100.00	7,806.97	11,776.49	8,067.94	83.22	94.40	-100.29	-4,279.72	2,763.50	1,460.60	1,302.63	157.97	9.246		
11,200.00	7,806.96	11,876.49	8,067.93	84.81	95.76	-100.29	-4,379.72	2,764.10	1,460.60	1,299.42	161.18	9.062		
11,300.00	7,806.96	11,976.49	8,067.93	86.41	97.13	-100.29	-4,479.72	2,764.71	1,460.61	1,296.20	164.40	8.884		
11,400.00	7,806.96	12,076.49	8,067.93	88.01	98.52	-100.29	-4,579.72	2,765.31	1,460.61	1,292.97	167.64	8.713		
11,500.00	7,806.96	12,176.49	8,067.93	89.63	99.92	-100.29	-4,679.72	2,765.92	1,460.61	1,289.73	170.88	8.547		
11,600.00	7,806.96	12,276.49	8,067.92	91.24	101.34	-100.29	-4,779.71	2,766.52	1,460.62	1,286.48	174.14	8.388		
11,700.00	7,806.96	12,376.49	8,067.92	92.87	102.76	-100.29	-4,879.71	2,767.13	1,460.62	1,283.22	177.40	8.233		
11,800.00	7,806.96	12,476.49	8,067.92	94.49	104.20	-100.29	-4,979.71	2,767.74	1,460.63	1,279.95	180.67	8.084		
11,900.00	7,806.95	12,576.49	8,067.92	96.13	105.65	-100.29	-5,079.71	2,768.34	1,460.63	1,276.67	183.95	7.940		
12,000.00	7,806.95	12,676.49	8,067.91	97.77	107.11	-100.29	-5,179.71	2,768.95	1,460.63	1,273.39	187.24	7.801		
12,100.00	7,806.95	12,776.49	8,067.91	99.41	108.58	-100.29	-5,279.70	2,769.55	1,460.64	1,270.10	190.54	7.666		
12,200.00	7,806.95	12,876.49	8,067.91	101.06	110.06	-100.29	-5,379.70	2,770.16	1,460.64	1,266.80	193.84	7.535		
12,300.00	7,806.95	12,976.49	8,067.91	102.71	111.55	-100.29	-5,479.70	2,770.76	1,460.64	1,263.49	197.15	7.409		
12,400.00	7,806.95	13,076.49	8,067.91	104.37	113.05	-100.29	-5,579.70	2,771.37	1,460.65	1,260.18	200.47	7.286		
12,500.00	7,806.95	13,176.49	8,067.90	106.02	114.56	-100.29	-5,679.70	2,771.97	1,460.65	1,256.86	203.79	7.167		
12,600.00	7,806.95	13,276.49	8,067.90	107.69	116.07	-100.29	-5,779.70	2,772.58	1,460.66	1,253.53	207.12	7.052		
12,700.00	7,806.94	13,376.49	8,067.90	109.35	117.59	-100.29	-5,879.69	2,773.19	1,460.66	1,250.20	210.46	6.940		
12,800.00	7,806.94	13,476.49	8,067.90	111.02	119.12	-100.29	-5,979.69	2,773.79	1,460.66	1,246.87	213.79	6.832		
12,900.00	7,806.94	13,576.49	8,067.89	112.70	120.66	-100.29	-6,079.69	2,774.40	1,460.67	1,243.53	217.14	6.727		
13,000.00	7,806.94	13,676.49	8,067.89	114.37	122.21	-100.29	-6,179.69	2,775.00	1,460.67	1,240.18	220.49	6.625		
13,100.00	7,806.94	13,776.49	8,067.89	116.05	123.76	-100.29	-6,279.69	2,775.61	1,460.67	1,236.83	223.84	6.525		
13,200.00	7,806.94	13,876.49	8,067.89	117.74	125.32	-100.29	-6,379.68	2,776.21	1,460.68	1,233.48	227.20	6.429		
13,300.00	7,806.94	13,976.49	8,067.88	119.42	126.88	-100.29	-6,479.68	2,776.82	1,460.68	1,230.12	230.56	6.335		
13,400.00	7,806.94	14,076.49	8,067.88	121.11	128.45	-100.29	-6,579.68	2,777.43	1,460.69	1,226.76	233.93	6.244		
13,500.00	7,806.93	14,176.49	8,067.88	122.80	130.03	-100.29	-6,679.68	2,778.03	1,460.69	1,223.39	237.30	6.155		
13,600.00	7,806.93	14,276.49	8,067.88	124.49	131.61	-100.29	-6,779.68	2,778.64	1,460.69	1,220.02	240.67	6.069		
13,700.00	7,806.93	14,376.49	8,067.87	126.18	133.19	-100.29	-6,879.67	2,779.24	1,460.70	1,216.64	244.05	5.985		
13,800.00	7,806.93	14,476.49	8,067.87	127.88	134.78	-100.29	-6,979.67	2,779.85	1,460.70	1,213.27	247.43	5.903		
13,900.00	7,806.93	14,576.49	8,067.87	129.58	136.38	-100.29	-7,079.67	2,780.45	1,460.70	1,209.89	250.82	5.824		
14,000.00	7,806.93	14,676.49	8,067.87	131.28	137.98	-100.29	-7,179.67	2,781.06	1,460.71	1,206.50	254.20	5.746		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	14,776.49	8,067.87	132.98	139.59	-100.29	-7,279.67	2,781.66	1,460.71	1,203.12	257.59	5.671		
14,200.00	7,806.93	14,876.49	8,067.86	134.68	141.20	-100.29	-7,379.67	2,782.27	1,460.71	1,199.73	260.99	5.597		
14,300.00	7,806.92	14,976.49	8,067.86	136.39	142.81	-100.29	-7,479.66	2,782.88	1,460.72	1,196.34	264.38	5.525		
14,400.00	7,806.92	15,076.49	8,067.86	138.10	144.43	-100.29	-7,579.66	2,783.48	1,460.72	1,192.94	267.78	5.455		
14,500.00	7,806.92	15,176.49	8,067.86	139.81	146.05	-100.29	-7,679.66	2,784.09	1,460.73	1,189.54	271.18	5.386		
14,600.00	7,806.92	15,276.49	8,067.85	141.52	147.68	-100.29	-7,779.66	2,784.69	1,460.73	1,186.14	274.59	5.320		
14,700.00	7,806.92	15,376.49	8,067.85	143.23	149.30	-100.29	-7,879.66	2,785.30	1,460.73	1,182.74	277.99	5.255		
14,800.00	7,806.92	15,476.49	8,067.85	144.94	150.94	-100.29	-7,979.65	2,785.90	1,460.74	1,179.34	281.40	5.191		
14,900.00	7,806.92	15,576.49	8,067.85	146.66	152.57	-100.29	-8,079.65	2,786.51	1,460.74	1,175.93	284.81	5.129		
15,000.00	7,806.92	15,676.49	8,067.84	148.37	154.21	-100.29	-8,179.65	2,787.11	1,460.74	1,172.52	288.22	5.068		
15,100.00	7,806.91	15,776.49	8,067.84	150.09	155.85	-100.29	-8,279.65	2,787.72	1,460.75	1,169.11	291.64	5.009		
15,200.00	7,806.91	15,876.49	8,067.84	151.81	157.50	-100.29	-8,379.65	2,788.33	1,460.75	1,165.70	295.06	4.951		
15,300.00	7,806.91	15,976.49	8,067.84	153.53	159.15	-100.29	-8,479.65	2,788.93	1,460.76	1,162.28	298.47	4.894		
15,400.00	7,806.91	16,076.49	8,067.83	155.25	160.80	-100.29	-8,579.64	2,789.54	1,460.76	1,158.86	301.89	4.839		
15,500.00	7,806.91	16,176.49	8,067.83	156.97	162.45	-100.29	-8,679.64	2,790.14	1,460.76	1,155.45	305.32	4.784		
15,600.00	7,806.91	16,276.49	8,067.83	158.70	164.11	-100.29	-8,779.64	2,790.75	1,460.77	1,152.03	308.74	4.731		
15,700.00	7,806.91	16,376.49	8,067.83	160.42	165.77	-100.29	-8,879.64	2,791.35	1,460.77	1,148.60	312.17	4.679		
15,800.00	7,806.91	16,476.49	8,067.83	162.15	167.43	-100.29	-8,979.64	2,791.96	1,460.77	1,145.18	315.59	4.629		
15,900.00	7,806.90	16,576.49	8,067.82	163.88	169.09	-100.29	-9,079.63	2,792.57	1,460.78	1,141.76	319.02	4.579		
16,000.00	7,806.90	16,676.49	8,067.82	165.60	170.76	-100.29	-9,179.63	2,793.17	1,460.78	1,138.33	322.45	4.530		
16,100.00	7,806.90	16,776.49	8,067.82	167.33	172.43	-100.29	-9,279.63	2,793.78	1,460.79	1,134.90	325.89	4.483		
16,200.00	7,806.90	16,876.49	8,067.82	169.06	174.10	-100.29	-9,379.63	2,794.38	1,460.79	1,131.47	329.32	4.436		
16,300.00	7,806.90	16,976.49	8,067.81	170.79	175.77	-100.29	-9,479.63	2,794.99	1,460.79	1,128.04	332.75	4.390		
16,400.00	7,806.90	17,076.49	8,067.81	172.52	177.45	-100.29	-9,579.63	2,795.59	1,460.80	1,124.61	336.19	4.345		
16,500.00	7,806.90	17,176.49	8,067.81	174.26	179.13	-100.29	-9,679.62	2,796.20	1,460.80	1,121.17	339.63	4.301		
16,600.00	7,806.89	17,276.49	8,067.81	175.99	180.80	-100.29	-9,779.62	2,796.80	1,460.80	1,117.74	343.07	4.258		
16,700.00	7,806.89	17,376.49	8,067.80	177.72	182.49	-100.29	-9,879.62	2,797.41	1,460.81	1,114.30	346.51	4.216		
16,800.00	7,806.89	17,476.49	8,067.80	179.46	184.17	-100.29	-9,979.62	2,798.02	1,460.81	1,110.87	349.95	4.174		
16,900.00	7,806.89	17,576.49	8,067.80	181.19	185.85	-100.29	-10,079.62	2,798.62	1,460.82	1,107.43	353.39	4.134		
17,000.00	7,806.89	17,676.49	8,067.80	182.93	187.54	-100.29	-10,179.61	2,799.23	1,460.82	1,103.99	356.83	4.094		
17,100.00	7,806.89	17,776.49	8,067.79	184.67	189.23	-100.29	-10,279.61	2,799.83	1,460.82	1,100.55	360.28	4.055		
17,200.00	7,806.89	17,876.49	8,067.79	186.40	190.92	-100.29	-10,379.61	2,800.44	1,460.83	1,097.11	363.72	4.016		
17,300.00	7,806.89	17,976.49	8,067.79	188.14	192.61	-100.29	-10,479.61	2,801.04	1,460.83	1,093.66	367.17	3.979		
17,400.00	7,806.88	18,076.49	8,067.79	189.88	194.30	-100.29	-10,579.61	2,801.65	1,460.83	1,090.22	370.62	3.942		
17,500.00	7,806.88	18,176.49	8,067.79	191.62	195.99	-100.29	-10,679.61	2,802.25	1,460.84	1,086.77	374.06	3.905		
17,600.00	7,806.88	18,276.49	8,067.78	193.36	197.69	-100.29	-10,779.60	2,802.86	1,460.84	1,083.33	377.51	3.870		
17,700.00	7,806.88	18,376.49	8,067.78	195.10	199.39	-100.29	-10,879.60	2,803.47	1,460.84	1,079.88	380.96	3.835		
17,800.00	7,806.88	18,476.49	8,067.78	196.84	201.08	-100.29	-10,979.60	2,804.07	1,460.85	1,076.43	384.41	3.800		
17,900.00	7,806.88	18,576.49	8,067.78	198.58	202.78	-100.29	-11,079.60	2,804.68	1,460.85	1,072.99	387.87	3.766		
18,000.00	7,806.88	18,676.49	8,067.77	200.33	204.49	-100.29	-11,179.60	2,805.28	1,460.86	1,069.54	391.32	3.733		
18,027.46	7,807.00	18,707.85	8,067.88	200.80	205.02	-100.29	-11,210.96	2,805.43	1,461.08	1,068.92	392.16	3.726 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.50	89.97	89.97					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.50	89.97	89.97	89.71	0.27	334.659		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.50	89.97	89.97	88.99	0.99	91.271		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.50	89.97	89.97	88.27	1.70	52.841		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.50	89.97	89.97	87.55	2.42	37.184		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.50	89.97	89.97	86.84	3.14	28.685 CC, ES		
600.00	600.00	597.05	597.03	1.93	1.91	90.62	-1.00	91.54	91.59	87.76	3.83	23.897		
700.00	700.00	693.88	693.73	2.29	2.24	91.48	-2.48	96.23	96.46	91.94	4.52	21.335		
800.00	800.00	790.27	789.77	2.64	2.59	92.72	-4.93	103.98	104.60	99.39	5.21	20.082		
900.00	900.00	886.00	884.83	3.00	2.94	94.15	-8.33	114.73	116.03	110.14	5.89	19.692		
1,000.00	1,000.00	980.87	978.62	3.36	3.32	95.63	-12.65	128.36	130.74	124.17	6.57	19.903		
1,100.00	1,099.98	1,074.98	1,071.13	3.71	3.71	-30.14	-17.85	144.80	147.24	140.02	7.22	20.388		
1,200.00	1,199.84	1,168.57	1,162.51	4.04	4.13	-29.51	-23.93	164.02	163.97	156.11	7.86	20.865		
1,300.00	1,299.45	1,261.62	1,252.68	4.39	4.58	-29.31	-30.86	185.93	180.87	172.38	8.49	21.306		
1,400.00	1,398.70	1,354.13	1,341.53	4.74	5.07	-29.44	-38.62	210.48	197.91	188.78	9.14	21.665		
1,500.00	1,497.47	1,446.11	1,429.00	5.12	5.60	-29.80	-47.20	237.58	215.09	205.31	9.78	21.983		
1,600.00	1,595.62	1,537.55	1,515.02	5.51	6.16	-30.35	-56.55	267.16	232.41	221.97	10.45	22.249		
1,700.00	1,693.06	1,628.46	1,599.50	5.94	6.78	-31.03	-66.67	299.15	249.88	238.76	11.12	22.462		
1,800.00	1,789.64	1,718.83	1,682.39	6.39	7.43	-31.81	-77.53	333.47	267.52	255.69	11.83	22.617		
1,863.26	1,850.25	1,775.73	1,733.98	6.70	7.88	-32.35	-84.77	356.35	278.77	266.48	12.29	22.684		
1,900.00	1,885.34	1,808.65	1,763.61	6.89	8.14	-32.73	-89.10	370.03	285.53	272.97	12.56	22.730		
2,000.00	1,980.83	1,897.57	1,842.79	7.41	8.89	-33.56	-101.30	408.60	306.01	292.69	13.32	22.973		
2,100.00	2,076.33	1,985.38	1,919.71	7.95	9.70	-34.15	-114.07	448.97	329.44	315.35	14.09	23.380		
2,200.00	2,171.82	2,071.92	1,994.22	8.50	10.55	-34.54	-127.34	490.93	355.73	340.86	14.86	23.932		
2,300.00	2,267.32	2,157.07	2,066.20	9.07	11.43	-34.75	-141.06	534.30	384.78	369.14	15.63	24.613		
2,400.00	2,362.81	2,251.29	2,144.96	9.64	12.45	-34.89	-156.66	583.60	415.41	398.83	16.59	25.044		
2,500.00	2,458.30	2,346.47	2,224.52	10.22	13.50	-35.00	-172.42	633.42	446.06	428.49	17.57	25.383		
2,600.00	2,553.80	2,441.65	2,304.09	10.81	14.57	-35.11	-188.18	683.23	476.71	458.14	18.57	25.669		
2,700.00	2,649.29	2,536.84	2,383.65	11.41	15.64	-35.20	-203.93	733.04	507.37	487.79	19.58	25.912		
2,800.00	2,744.79	2,632.02	2,463.21	12.01	16.73	-35.28	-219.69	782.86	538.02	517.42	20.60	26.120		
2,900.00	2,840.28	2,727.21	2,542.77	12.61	17.82	-35.35	-235.45	832.67	568.67	547.05	21.62	26.300		
3,000.00	2,935.77	2,822.39	2,622.34	13.22	18.91	-35.41	-251.21	882.48	599.33	576.67	22.65	26.455		
3,100.00	3,031.27	2,917.57	2,701.90	13.83	20.01	-35.47	-266.97	932.30	629.98	606.29	23.69	26.591		
3,200.00	3,126.76	3,012.76	2,781.46	14.44	21.12	-35.52	-282.72	982.11	660.64	635.90	24.73	26.709		
3,300.00	3,222.26	3,107.94	2,861.03	15.06	22.22	-35.57	-298.48	1,031.92	691.29	665.51	25.78	26.814		
3,400.00	3,317.75	3,203.12	2,940.59	15.68	23.33	-35.61	-314.24	1,081.74	721.95	695.12	26.83	26.906		
3,500.00	3,413.25	3,301.69	3,020.15	16.30	24.49	-35.65	-330.00	1,131.55	752.61	724.70	27.91	26.968		
3,600.00	3,508.74	3,393.49	3,099.71	16.92	25.56	-35.69	-345.76	1,181.36	783.26	754.32	28.94	27.061		
3,700.00	3,604.23	3,488.67	3,179.28	17.54	26.68	-35.72	-361.51	1,231.18	813.92	783.92	30.01	27.126		
3,800.00	3,699.73	3,583.86	3,258.84	18.17	27.80	-35.75	-377.27	1,280.99	844.58	813.51	31.07	27.185		
3,900.00	3,795.22	3,679.04	3,338.40	18.79	28.92	-35.78	-393.03	1,330.80	875.24	843.10	32.13	27.238		
4,000.00	3,890.72	3,774.23	3,417.96	19.42	30.04	-35.81	-408.79	1,380.62	905.89	872.69	33.20	27.285		
4,100.00	3,986.21	3,869.41	3,497.53	20.05	31.16	-35.84	-424.55	1,430.43	936.55	902.28	34.27	27.329		
4,200.00	4,081.70	3,964.59	3,577.09	20.67	32.28	-35.86	-440.31	1,480.24	967.21	931.87	35.34	27.368		
4,300.00	4,177.20	4,059.78	3,656.65	21.30	33.41	-35.88	-456.06	1,530.06	997.87	961.46	36.41	27.404		
4,400.00	4,272.69	4,154.96	3,736.22	21.93	34.53	-35.90	-471.82	1,579.87	1,028.53	991.04	37.49	27.437		
4,500.00	4,368.19	4,250.14	3,815.78	22.56	35.66	-35.92	-487.58	1,629.68	1,059.19	1,020.62	38.56	27.467		
4,600.00	4,463.68	4,345.33	3,895.34	23.19	36.78	-35.94	-503.34	1,679.50	1,089.85	1,050.21	39.64	27.494		
4,700.00	4,559.17	4,440.51	3,974.90	23.83	37.91	-35.96	-519.10	1,729.31	1,120.50	1,079.79	40.72	27.519		
4,800.00	4,654.67	4,535.69	4,054.47	24.46	39.04	-35.98	-534.85	1,779.12	1,151.16	1,109.37	41.80	27.543		
4,900.00	4,750.16	4,630.88	4,134.03	25.09	40.17	-35.99	-550.61	1,828.94	1,181.82	1,138.95	42.88	27.564		
5,000.00	4,845.66	4,726.06	4,213.59	25.72	41.30	-36.01	-566.37	1,878.75	1,212.48	1,168.53	43.96	27.584		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,821.24	4,293.15	26.36	42.43	-36.02	-582.13	1,928.56	1,243.14	1,198.10	45.04	27.602		
5,200.00	5,036.65	4,916.43	4,372.72	26.99	43.56	-36.04	-597.89	1,978.38	1,273.80	1,227.68	46.12	27.619		
5,300.00	5,132.14	5,011.61	4,452.28	27.63	44.69	-36.05	-613.64	2,028.19	1,304.46	1,257.26	47.20	27.635		
5,400.00	5,227.63	5,106.80	4,531.84	28.26	45.82	-36.06	-629.40	2,078.01	1,335.12	1,286.83	48.29	27.650		
5,500.00	5,323.13	5,201.98	4,611.41	28.90	46.95	-36.08	-645.16	2,127.82	1,365.78	1,316.41	49.37	27.663		
5,600.00	5,418.62	5,302.84	4,690.97	29.53	48.15	-36.09	-660.92	2,177.63	1,396.44	1,345.95	50.49	27.657		
5,700.00	5,514.12	5,407.65	4,770.53	30.17	49.39	-36.10	-676.68	2,227.45	1,427.10	1,375.46	51.64	27.637		
5,800.00	5,609.61	5,487.53	4,850.09	30.80	50.34	-36.11	-692.44	2,277.26	1,457.76	1,405.13	52.63	27.699		
5,900.00	5,705.10	5,582.71	4,929.66	31.44	51.47	-36.12	-708.19	2,327.07	1,488.42	1,434.70	53.72	27.709		
6,000.00	5,800.60	5,677.90	5,009.22	32.08	52.61	-36.13	-723.95	2,376.89	1,519.08	1,464.27	54.80	27.719		
6,100.00	5,896.09	5,773.08	5,088.78	32.71	53.74	-36.14	-739.71	2,426.70	1,549.74	1,493.85	55.89	27.728		
6,200.00	5,991.59	5,868.26	5,168.34	33.35	54.87	-36.15	-755.47	2,476.51	1,580.40	1,523.42	56.98	27.737		
6,300.00	6,087.08	5,963.45	5,247.91	33.99	56.00	-36.15	-771.23	2,526.33	1,611.06	1,552.99	58.07	27.745		
6,400.00	6,182.57	6,058.63	5,327.47	34.62	57.14	-36.16	-786.98	2,576.14	1,641.72	1,582.56	59.16	27.752		
6,499.99	6,278.06	6,153.80	5,407.02	35.26	58.27	-36.17	-802.74	2,625.95	1,672.37	1,612.13	60.25	27.759		
6,505.95	6,283.75	6,159.47	5,411.76	35.30	58.34	-36.17	-803.68	2,628.91	1,674.20	1,613.89	60.31	27.759		
6,600.00	6,374.00	6,248.60	5,486.26	35.88	59.40	-36.52	-818.44	2,675.56	1,704.22	1,642.91	61.30	27.800		
6,700.00	6,470.87	6,347.59	5,569.01	36.44	60.57	-36.86	-834.82	2,727.35	1,738.70	1,676.35	62.35	27.888		
6,800.00	6,568.53	6,573.03	5,762.49	36.96	63.05	-37.00	-869.69	2,837.57	1,772.05	1,707.36	64.69	27.393		
6,900.00	6,666.89	6,808.10	5,973.25	37.43	65.25	-37.10	-901.04	2,936.68	1,800.80	1,734.09	66.71	26.994		
7,000.00	6,765.82	7,051.93	6,200.10	37.85	67.09	-37.18	-927.94	3,021.72	1,824.58	1,756.25	68.33	26.702		
7,100.00	6,865.19	7,303.26	6,440.99	38.22	68.59	-37.24	-949.48	3,089.80	1,843.04	1,773.55	69.50	26.520		
7,200.00	6,964.89	7,560.44	6,692.99	38.55	69.69	-37.28	-964.84	3,138.37	1,855.91	1,785.76	70.15	26.455		
7,300.00	7,064.80	7,300.00	6,908.28	38.83	69.13	-37.31	-972.36	3,162.14	1,862.88	1,793.75	69.13	26.948		
7,369.20	7,134.00	8,003.21	7,134.00	39.00	70.74	89.70	-975.14	3,170.93	1,864.40	1,794.34	70.06	26.612		
7,400.00	7,164.80	8,034.01	7,164.80	39.06	70.78	89.70	-975.14	3,170.93	1,864.40	1,794.20	70.20	26.558		
7,469.20	7,234.00	8,103.21	7,234.00	39.22	70.87	89.70	-975.14	3,170.93	1,864.40	1,793.88	70.52	26.439		
7,500.00	7,264.78	8,134.38	7,265.15	39.29	70.91	89.95	-975.99	3,170.93	1,864.40	1,793.72	70.68	26.379		
7,550.00	7,314.53	8,184.98	7,315.50	39.44	70.99	89.95	-980.97	3,170.94	1,864.38	1,793.39	70.99	26.264		
7,600.00	7,363.66	8,235.58	7,365.19	39.62	71.09	89.95	-990.36	3,170.95	1,864.33	1,792.97	71.36	26.126		
7,650.00	7,411.81	8,286.16	7,413.86	39.82	71.20	89.95	-1,004.10	3,170.97	1,864.27	1,792.48	71.79	25.967		
7,700.00	7,458.61	8,336.73	7,461.11	40.06	71.32	89.95	-1,022.07	3,171.00	1,864.19	1,791.90	72.29	25.787		
7,750.00	7,503.69	8,387.27	7,506.57	40.32	71.46	89.96	-1,044.12	3,171.03	1,864.09	1,791.24	72.85	25.587		
7,800.00	7,546.72	8,437.79	7,549.89	40.60	71.61	89.96	-1,070.08	3,171.07	1,863.98	1,790.50	73.47	25.369		
7,850.00	7,587.38	8,488.28	7,590.73	40.92	71.78	89.96	-1,099.73	3,171.11	1,863.84	1,789.69	74.16	25.134		
7,900.00	7,625.34	8,538.74	7,628.79	41.25	71.96	89.96	-1,132.84	3,171.16	1,863.69	1,788.80	74.90	24.884		
7,950.00	7,660.33	8,589.16	7,663.75	41.61	72.16	89.97	-1,169.14	3,171.21	1,863.53	1,787.84	75.69	24.620		
8,000.00	7,692.07	8,639.53	7,695.37	42.00	72.36	89.97	-1,208.34	3,171.27	1,863.35	1,786.81	76.54	24.344		
8,050.00	7,720.33	8,689.87	7,723.41	42.40	72.58	89.97	-1,250.13	3,171.33	1,863.16	1,785.72	77.45	24.058		
8,100.00	7,744.89	8,740.16	7,747.64	42.83	72.81	89.98	-1,294.17	3,171.40	1,862.97	1,784.57	78.39	23.764		
8,150.00	7,765.56	8,790.40	7,767.91	43.27	73.04	89.98	-1,340.13	3,171.46	1,862.76	1,783.37	79.39	23.465		
8,200.00	7,782.18	8,840.60	7,784.06	43.74	73.29	89.98	-1,387.64	3,171.53	1,862.54	1,782.13	80.41	23.162		
8,250.00	7,794.63	8,890.74	7,795.98	44.22	73.55	89.99	-1,436.32	3,171.60	1,862.32	1,780.85	81.47	22.859		
8,300.00	7,802.82	8,940.83	7,803.60	44.71	73.81	89.99	-1,485.82	3,171.68	1,862.10	1,779.55	82.55	22.557		
8,350.00	7,806.68	8,990.87	7,806.87	45.21	74.09	90.00	-1,535.73	3,171.75	1,861.87	1,778.23	83.64	22.259		
8,369.28	7,807.00	9,010.15	7,807.00	45.40	74.19	90.00	-1,555.01	3,171.78	1,861.78	1,777.71	84.07	22.146		
8,400.00	7,807.00	9,040.87	7,807.00	45.72	74.36	90.00	-1,585.73	3,171.82	1,861.64	1,776.89	84.75	21.966		
8,500.00	7,807.00	9,140.87	7,807.00	46.77	74.94	90.00	-1,685.73	3,171.97	1,861.19	1,774.17	87.02	21.388		
8,600.00	7,807.00	9,240.87	7,807.00	47.86	75.55	90.00	-1,785.74	3,172.12	1,860.73	1,771.36	89.37	20.820		
8,700.00	7,807.00	9,340.87	7,807.00	48.99	76.18	90.00	-1,885.74	3,172.26	1,860.28	1,768.48	91.80	20.265		
8,800.00	7,806.99	9,440.87	7,807.00	50.16	76.85	90.00	-1,985.74	3,172.41	1,859.82	1,765.53	94.30	19.723		
8,900.00	7,806.99	9,540.88	7,807.00	51.37	77.54	90.00	-2,085.74	3,172.56	1,859.37	1,762.51	96.86	19.196		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,640.88	7,807.00	52.60	78.26	-90.00	-2,185.74	3,172.70	1,858.91	1,759.43	99.48	18.686		
9,100.00	7,806.99	9,740.88	7,807.00	53.87	79.01	-90.00	-2,285.74	3,172.85	1,858.46	1,756.30	102.16	18.191		
9,200.00	7,806.99	9,840.88	7,807.00	55.17	79.80	-90.00	-2,385.74	3,173.00	1,858.00	1,753.11	104.89	17.713		
9,300.00	7,806.99	9,940.88	7,807.00	56.49	80.60	-90.00	-2,485.74	3,173.14	1,857.55	1,749.88	107.67	17.252		
9,400.00	7,806.99	10,040.88	7,807.00	57.83	81.44	-90.00	-2,585.74	3,173.29	1,857.09	1,746.60	110.49	16.808		
9,500.00	7,806.99	10,140.88	7,807.00	59.20	82.31	-90.00	-2,685.75	3,173.43	1,856.63	1,743.28	113.35	16.379		
9,600.00	7,806.98	10,240.88	7,807.00	60.59	83.20	-90.00	-2,785.75	3,173.58	1,856.18	1,739.93	116.25	15.967		
9,700.00	7,806.98	10,340.89	7,807.00	62.00	84.12	-90.00	-2,885.75	3,173.72	1,855.72	1,736.54	119.18	15.570		
9,800.00	7,806.98	10,440.89	7,807.00	63.43	85.07	-90.00	-2,985.75	3,173.87	1,855.27	1,733.12	122.15	15.189		
9,900.00	7,806.98	10,540.89	7,807.00	64.87	86.04	-90.00	-3,085.75	3,174.01	1,854.81	1,729.66	125.15	14.821		
10,000.00	7,806.98	10,640.89	7,807.00	66.34	87.04	-90.00	-3,185.75	3,174.16	1,854.35	1,726.18	128.17	14.468		
10,100.00	7,806.98	10,740.89	7,807.00	67.81	88.06	-90.00	-3,285.75	3,174.30	1,853.90	1,722.68	131.22	14.128		
10,200.00	7,806.98	10,840.89	7,807.00	69.30	89.11	-90.00	-3,385.75	3,174.45	1,853.44	1,719.15	134.29	13.802		
10,300.00	7,806.98	10,940.89	7,807.01	70.81	90.18	-90.00	-3,485.75	3,174.59	1,852.98	1,715.59	137.39	13.487		
10,400.00	7,806.97	11,040.89	7,807.01	72.32	91.27	-90.00	-3,585.76	3,174.74	1,852.53	1,712.02	140.51	13.185		
10,500.00	7,806.97	11,140.89	7,807.01	73.85	92.39	-90.00	-3,685.76	3,174.88	1,852.07	1,708.43	143.64	12.894		
10,600.00	7,806.97	11,240.90	7,807.01	75.39	93.53	-90.00	-3,785.76	3,175.03	1,851.61	1,704.81	146.80	12.613		
10,700.00	7,806.97	11,340.90	7,807.01	76.94	94.69	-90.00	-3,885.76	3,175.17	1,851.15	1,701.18	149.97	12.343		
10,800.00	7,806.97	11,440.90	7,807.01	78.49	95.86	-90.00	-3,985.76	3,175.32	1,850.70	1,697.54	153.16	12.083		
10,900.00	7,806.97	11,540.90	7,807.01	80.06	97.06	-90.00	-4,085.76	3,175.46	1,850.24	1,693.87	156.36	11.833		
11,000.00	7,806.97	11,640.90	7,807.01	81.64	98.28	-90.00	-4,185.76	3,175.60	1,849.78	1,690.20	159.58	11.591		
11,100.00	7,806.97	11,740.90	7,807.01	83.22	99.52	-90.00	-4,285.76	3,175.75	1,849.32	1,686.51	162.82	11.358		
11,200.00	7,806.96	11,840.90	7,807.01	84.81	100.77	-90.00	-4,385.76	3,175.89	1,848.86	1,682.80	166.06	11.134		
11,300.00	7,806.96	11,940.90	7,807.01	86.41	102.04	-90.00	-4,485.76	3,176.03	1,848.41	1,679.09	169.32	10.917		
11,400.00	7,806.96	12,040.91	7,807.01	88.01	103.33	-90.00	-4,585.77	3,176.18	1,847.95	1,675.36	172.59	10.707		
11,500.00	7,806.96	12,140.91	7,807.01	89.63	104.64	-90.00	-4,685.77	3,176.32	1,847.49	1,671.63	175.86	10.505		
11,600.00	7,806.96	12,240.91	7,807.01	91.24	105.95	-90.00	-4,785.77	3,176.46	1,847.03	1,667.88	179.15	10.310		
11,700.00	7,806.96	12,340.91	7,807.01	92.87	107.29	-90.00	-4,885.77	3,176.61	1,846.57	1,664.12	182.45	10.121		
11,800.00	7,806.96	12,440.91	7,807.01	94.49	108.64	-90.00	-4,985.77	3,176.75	1,846.11	1,660.36	185.76	9.938		
11,900.00	7,806.95	12,540.91	7,807.01	96.13	110.00	-90.00	-5,085.77	3,176.89	1,845.65	1,656.58	189.07	9.762		
12,000.00	7,806.95	12,640.91	7,807.01	97.77	111.37	-90.00	-5,185.77	3,177.04	1,845.20	1,652.80	192.40	9.590		
12,100.00	7,806.95	12,740.91	7,807.01	99.41	112.76	-90.00	-5,285.77	3,177.18	1,844.74	1,649.01	195.73	9.425		
12,200.00	7,806.95	12,840.91	7,807.01	101.06	114.16	-90.00	-5,385.77	3,177.32	1,844.28	1,645.21	199.07	9.265		
12,300.00	7,806.95	12,940.92	7,807.01	102.71	115.57	-90.00	-5,485.78	3,177.46	1,843.82	1,641.40	202.42	9.109		
12,400.00	7,806.95	13,040.92	7,807.01	104.37	116.99	-90.00	-5,585.78	3,177.60	1,843.36	1,637.59	205.77	8.958		
12,500.00	7,806.95	13,140.92	7,807.01	106.02	118.42	-90.00	-5,685.78	3,177.75	1,842.90	1,633.77	209.13	8.812		
12,600.00	7,806.95	13,240.92	7,807.01	107.69	119.86	-90.00	-5,785.78	3,177.89	1,842.44	1,629.95	212.49	8.671		
12,700.00	7,806.94	13,340.92	7,807.01	109.35	121.32	-90.00	-5,885.78	3,178.03	1,841.98	1,626.12	215.86	8.533		
12,800.00	7,806.94	13,440.92	7,807.01	111.02	122.78	-90.00	-5,985.78	3,178.17	1,841.52	1,622.28	219.24	8.400		
12,900.00	7,806.94	13,540.92	7,807.01	112.70	124.25	-90.00	-6,085.78	3,178.31	1,841.06	1,618.44	222.62	8.270		
13,000.00	7,806.94	13,640.92	7,807.01	114.37	125.73	-90.00	-6,185.78	3,178.45	1,840.60	1,614.59	226.01	8.144		
13,100.00	7,806.94	13,740.92	7,807.01	116.05	127.22	-90.00	-6,285.78	3,178.60	1,840.14	1,610.74	229.40	8.022		
13,200.00	7,806.94	13,840.93	7,807.01	117.74	128.72	-90.00	-6,385.79	3,178.74	1,839.68	1,606.89	232.79	7.903		
13,300.00	7,806.94	13,940.93	7,807.01	119.42	130.22	-90.00	-6,485.79	3,178.88	1,839.22	1,603.03	236.19	7.787		
13,400.00	7,806.94	14,040.93	7,807.01	121.11	131.73	-90.00	-6,585.79	3,179.02	1,838.76	1,599.16	239.60	7.674		
13,500.00	7,806.93	14,140.93	7,807.01	122.80	133.25	-90.00	-6,685.79	3,179.16	1,838.30	1,595.29	243.00	7.565		
13,600.00	7,806.93	14,240.93	7,807.01	124.49	134.78	-90.00	-6,785.79	3,179.30	1,837.84	1,591.42	246.42	7.458		
13,700.00	7,806.93	14,340.93	7,807.01	126.18	136.31	-90.00	-6,885.79	3,179.44	1,837.37	1,587.54	249.83	7.354		
13,800.00	7,806.93	14,440.93	7,807.01	127.88	137.85	-90.00	-6,985.79	3,179.58	1,836.91	1,583.66	253.25	7.253		
13,900.00	7,806.93	14,540.93	7,807.01	129.58	139.40	-90.00	-7,085.79	3,179.72	1,836.45	1,579.78	256.67	7.155		
14,000.00	7,806.93	14,640.94	7,807.01	131.28	140.95	-90.00	-7,185.79	3,179.86	1,835.99	1,575.89	260.10	7.059		
14,100.00	7,806.93	14,740.94	7,807.01	132.98	142.50	-90.00	-7,285.79	3,180.00	1,835.53	1,572.00	263.53	6.965		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	14,840.94	7,807.01	134.68	144.07	-90.00	-7,385.80	3,180.14	1,835.07	1,568.11	266.96	6.874		
14,300.00	7,806.92	14,940.94	7,807.01	136.39	145.64	-90.00	-7,485.80	3,180.28	1,834.61	1,564.21	270.39	6.785		
14,400.00	7,806.92	15,040.94	7,807.01	138.10	147.21	-90.00	-7,585.80	3,180.42	1,834.14	1,560.31	273.83	6.698		
14,500.00	7,806.92	15,140.94	7,807.01	139.81	148.79	-90.00	-7,685.80	3,180.56	1,833.68	1,556.41	277.27	6.613		
14,600.00	7,806.92	15,240.94	7,807.01	141.52	150.37	-90.00	-7,785.80	3,180.70	1,833.22	1,552.50	280.72	6.531		
14,700.00	7,806.92	15,340.94	7,807.01	143.23	151.96	-90.00	-7,885.80	3,180.84	1,832.76	1,548.60	284.16	6.450		
14,800.00	7,806.92	15,440.94	7,807.01	144.94	153.55	-90.00	-7,985.80	3,180.98	1,832.30	1,544.69	287.61	6.371		
14,900.00	7,806.92	15,540.95	7,807.01	146.66	155.15	-90.00	-8,085.80	3,181.12	1,831.83	1,540.77	291.06	6.294		
15,000.00	7,806.92	15,640.95	7,807.01	148.37	156.75	-90.00	-8,185.80	3,181.26	1,831.37	1,536.86	294.51	6.218		
15,100.00	7,806.91	15,740.95	7,807.01	150.09	158.35	-90.00	-8,285.80	3,181.40	1,830.91	1,532.94	297.96	6.145		
15,200.00	7,806.91	15,840.95	7,807.01	151.81	159.96	-90.00	-8,385.81	3,181.54	1,830.45	1,529.02	301.42	6.073		
15,300.00	7,806.91	15,940.95	7,807.01	153.53	161.57	-90.00	-8,485.81	3,181.68	1,829.98	1,525.10	304.88	6.002		
15,400.00	7,806.91	16,040.95	7,807.01	155.25	163.19	-90.00	-8,585.81	3,181.81	1,829.52	1,521.18	308.34	5.933		
15,500.00	7,806.91	16,140.95	7,807.01	156.97	164.81	-90.00	-8,685.81	3,181.95	1,829.06	1,517.25	311.80	5.866		
15,600.00	7,806.91	16,240.95	7,807.01	158.70	166.43	-90.00	-8,785.81	3,182.09	1,828.59	1,513.33	315.27	5.800		
15,700.00	7,806.91	16,340.95	7,807.01	160.42	168.06	-90.00	-8,885.81	3,182.23	1,828.13	1,509.40	318.73	5.736		
15,800.00	7,806.91	16,440.96	7,807.01	162.15	169.69	-90.00	-8,985.81	3,182.37	1,827.67	1,505.47	322.20	5.672		
15,900.00	7,806.90	16,540.96	7,807.01	163.88	171.32	-90.00	-9,085.81	3,182.50	1,827.20	1,501.53	325.67	5.611		
16,000.00	7,806.90	16,640.96	7,807.01	165.60	172.96	-90.00	-9,185.81	3,182.64	1,826.74	1,497.60	329.14	5.550		
16,100.00	7,806.90	16,740.96	7,807.01	167.33	174.60	-90.00	-9,285.82	3,182.78	1,826.27	1,493.66	332.61	5.491		
16,200.00	7,806.90	16,840.96	7,807.00	169.06	176.24	-90.00	-9,385.82	3,182.92	1,825.81	1,489.72	336.09	5.433		
16,300.00	7,806.90	16,940.96	7,807.00	170.79	177.88	-90.00	-9,485.82	3,183.06	1,825.35	1,485.79	339.56	5.376		
16,400.00	7,806.90	17,040.96	7,807.00	172.52	179.53	-90.00	-9,585.82	3,183.19	1,824.88	1,481.84	343.04	5.320		
16,500.00	7,806.90	17,140.96	7,807.00	174.26	181.18	-90.00	-9,685.82	3,183.33	1,824.42	1,477.90	346.52	5.265		
16,600.00	7,806.89	17,240.96	7,807.00	175.99	182.83	-90.00	-9,785.82	3,183.47	1,823.95	1,473.96	349.99	5.211		
16,700.00	7,806.89	17,340.97	7,807.00	177.72	184.49	-90.00	-9,885.82	3,183.60	1,823.49	1,470.01	353.48	5.159		
16,800.00	7,806.89	17,440.97	7,807.00	179.46	186.14	-90.00	-9,985.82	3,183.74	1,823.02	1,466.07	356.96	5.107		
16,900.00	7,806.89	17,540.97	7,807.00	181.19	187.80	-90.00	-10,085.82	3,183.88	1,822.56	1,462.12	360.44	5.056		
17,000.00	7,806.89	17,640.97	7,807.00	182.93	189.46	-90.00	-10,185.82	3,184.01	1,822.09	1,458.17	363.92	5.007		
17,100.00	7,806.89	17,740.97	7,807.00	184.67	191.13	-90.00	-10,285.83	3,184.15	1,821.63	1,454.22	367.41	4.958		
17,200.00	7,806.89	17,840.97	7,807.00	186.40	192.79	-90.00	-10,385.83	3,184.29	1,821.16	1,450.27	370.90	4.910		
17,300.00	7,806.89	17,940.97	7,807.00	188.14	194.46	-90.00	-10,485.83	3,184.42	1,820.70	1,446.31	374.38	4.863		
17,400.00	7,806.88	18,040.97	7,807.00	189.88	196.13	-90.00	-10,585.83	3,184.56	1,820.23	1,442.36	377.87	4.817		
17,500.00	7,806.88	18,140.97	7,807.00	191.62	197.80	-90.00	-10,685.83	3,184.70	1,819.77	1,438.41	381.36	4.772		
17,600.00	7,806.88	18,240.98	7,807.00	193.36	199.48	-90.00	-10,785.83	3,184.83	1,819.30	1,434.45	384.85	4.727		
17,700.00	7,806.88	18,340.98	7,807.00	195.10	201.15	-90.00	-10,885.83	3,184.97	1,818.84	1,430.49	388.34	4.684		
17,800.00	7,806.88	18,440.98	7,807.00	196.84	202.83	-90.00	-10,985.83	3,185.10	1,818.37	1,426.53	391.84	4.641		
17,900.00	7,806.88	18,540.98	7,807.00	198.58	204.51	-90.00	-11,085.83	3,185.24	1,817.90	1,422.57	395.33	4.598		
18,000.00	7,806.88	18,640.98	7,807.00	200.33	206.17	-90.00	-11,185.83	3,185.37	1,817.44	1,418.71	398.73	4.558		
18,016.28	7,806.88	18,657.26	7,807.00	200.61	206.44	-90.00	-11,202.11	3,185.40	1,817.36	1,418.10	399.26	4.552		
18,027.46	7,807.00	18,668.44	7,807.00	200.80	206.63	-90.00	-11,213.30	3,185.41	1,817.58	1,417.95	399.63	4.548 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.60	107.97	107.97					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.60	107.97	107.97	107.70	0.27	401.593		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.60	107.97	107.97	106.98	0.99	109.525		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.60	107.97	107.97	106.27	1.70	63.409		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.60	107.97	107.97	105.55	2.42	44.621 CC, ES		
500.00	500.00	496.46	496.44	1.57	1.55	90.55	-1.05	109.53	109.59	106.48	3.12	35.180		
600.00	600.00	592.71	592.56	1.93	1.88	91.20	-2.39	114.20	114.46	110.66	3.81	30.081		
700.00	700.00	688.52	688.03	2.29	2.23	92.16	-4.61	121.92	122.59	118.10	4.49	27.274		
800.00	800.00	783.68	782.54	2.64	2.59	93.31	-7.68	132.63	133.99	128.81	5.18	25.859		
900.00	900.00	878.01	875.79	3.00	2.96	94.53	-11.58	146.21	148.65	142.79	5.86	25.355		
1,000.00	1,000.00	971.30	967.52	3.36	3.36	95.71	-16.26	162.54	166.55	160.01	6.54	25.479		
1,100.00	1,099.98	1,063.71	1,057.79	3.71	3.78	-30.24	-21.72	181.54	186.17	178.98	7.19	25.906		
1,200.00	1,199.84	1,155.51	1,146.79	4.04	4.23	-29.69	-27.92	203.17	205.97	198.15	7.81	26.358		
1,300.00	1,299.45	1,246.72	1,234.44	4.39	4.72	-29.50	-34.87	227.37	225.89	217.44	8.45	26.737		
1,400.00	1,398.70	1,337.31	1,320.68	4.74	5.24	-29.59	-42.52	254.05	245.91	236.82	9.09	27.060		
1,500.00	1,497.47	1,427.31	1,405.43	5.12	5.81	-29.87	-50.87	283.13	266.02	256.29	9.73	27.329		
1,600.00	1,595.62	1,516.71	1,488.64	5.51	6.41	-30.32	-59.89	314.54	286.22	275.83	10.39	27.543		
1,700.00	1,693.06	1,605.51	1,570.24	5.94	7.06	-30.88	-69.54	348.19	306.51	295.44	11.07	27.697		
1,800.00	1,789.64	1,693.72	1,650.19	6.39	7.76	-31.54	-79.82	384.01	326.91	315.14	11.77	27.785		
1,863.26	1,850.25	1,749.21	1,699.89	6.70	8.23	-31.99	-86.64	407.75	339.87	327.65	12.22	27.805		
1,900.00	1,885.34	1,781.31	1,728.40	6.89	8.51	-32.33	-90.70	421.90	347.62	335.13	12.49	27.824		
2,000.00	1,980.83	1,867.91	1,804.51	7.41	9.30	-33.11	-102.10	461.61	370.73	357.49	13.25	27.988		
2,100.00	2,076.33	1,953.30	1,878.30	7.95	10.14	-33.70	-113.95	502.91	396.73	382.72	14.01	28.323		
2,200.00	2,171.82	2,037.36	1,949.66	8.50	11.01	-34.13	-126.20	545.61	425.51	410.74	14.77	28.804		
2,300.00	2,267.32	2,119.97	2,018.49	9.07	11.92	-34.41	-138.81	589.53	456.99	441.45	15.54	29.415		
2,400.00	2,362.81	2,201.92	2,085.43	9.64	12.87	-34.59	-151.84	634.94	491.07	474.76	16.31	30.114		
2,500.00	2,458.30	2,304.49	2,161.23	10.22	14.10	-34.72	-166.99	687.72	526.27	508.92	17.34	30.341		
2,600.00	2,553.80	2,389.10	2,237.03	10.81	15.14	-34.84	-182.13	740.49	561.47	543.18	18.29	30.696		
2,700.00	2,649.29	2,482.69	2,312.83	11.41	16.29	-34.95	-197.28	793.26	596.68	577.38	19.30	30.916		
2,800.00	2,744.79	2,576.29	2,388.63	12.01	17.45	-35.04	-212.42	846.03	631.88	611.56	20.32	31.099		
2,900.00	2,840.28	2,669.88	2,464.43	12.61	18.61	-35.13	-227.57	898.80	667.09	645.75	21.34	31.253		
3,000.00	2,935.77	2,763.47	2,540.22	13.22	19.79	-35.20	-242.71	951.57	702.30	679.92	22.38	31.384		
3,100.00	3,031.27	2,857.07	2,616.02	13.83	20.96	-35.27	-257.86	1,004.35	737.51	714.09	23.42	31.495		
3,200.00	3,126.76	2,950.66	2,691.82	14.44	22.14	-35.33	-273.00	1,057.12	772.72	748.26	24.46	31.590		
3,300.00	3,222.26	3,044.25	2,767.62	15.06	23.33	-35.39	-288.15	1,109.89	807.93	782.42	25.51	31.671		
3,400.00	3,317.75	3,137.84	2,843.42	15.68	24.52	-35.44	-303.30	1,162.66	843.15	816.58	26.56	31.742		
3,500.00	3,413.25	3,231.44	2,919.21	16.30	25.71	-35.49	-318.44	1,215.43	878.36	850.74	27.62	31.802		
3,600.00	3,508.74	3,325.03	2,995.01	16.92	26.90	-35.53	-333.59	1,268.20	913.57	884.89	28.68	31.855		
3,700.00	3,604.23	3,418.62	3,070.81	17.54	28.09	-35.57	-348.73	1,320.98	948.79	919.04	29.74	31.901		
3,800.00	3,699.73	3,512.22	3,146.61	18.17	29.29	-35.61	-363.88	1,373.75	984.00	953.19	30.81	31.941		
3,900.00	3,795.22	3,605.81	3,222.41	18.79	30.49	-35.65	-379.02	1,426.52	1,019.21	987.34	31.87	31.976		
4,000.00	3,890.72	3,700.60	3,298.21	19.42	31.70	-35.68	-394.17	1,479.29	1,054.43	1,021.48	32.95	31.999		
4,100.00	3,986.21	3,807.01	3,374.00	20.05	33.07	-35.71	-409.31	1,532.06	1,089.64	1,055.54	34.11	31.949		
4,200.00	4,081.70	3,886.59	3,449.80	20.67	34.09	-35.74	-424.46	1,584.83	1,124.86	1,089.77	35.09	32.056		
4,300.00	4,177.20	3,980.18	3,525.60	21.30	35.29	-35.77	-439.60	1,637.61	1,160.07	1,123.91	36.17	32.077		
4,400.00	4,272.69	4,073.77	3,601.40	21.93	36.49	-35.79	-454.75	1,690.38	1,195.29	1,158.05	37.24	32.095		
4,500.00	4,368.19	4,167.36	3,677.20	22.56	37.70	-35.82	-469.89	1,743.15	1,230.51	1,192.19	38.32	32.111		
4,600.00	4,463.68	4,260.96	3,753.00	23.19	38.90	-35.84	-485.04	1,795.92	1,265.72	1,226.32	39.40	32.125		
4,700.00	4,559.17	4,354.55	3,828.79	23.83	40.10	-35.86	-500.19	1,848.69	1,300.94	1,260.46	40.48	32.138		
4,800.00	4,654.67	4,448.14	3,904.59	24.46	41.31	-35.88	-515.33	1,901.46	1,336.16	1,294.59	41.56	32.149		
4,900.00	4,750.16	4,541.74	3,980.39	25.09	42.52	-35.90	-530.48	1,954.24	1,371.37	1,328.73	42.64	32.158		
5,000.00	4,845.66	4,635.33	4,056.19	25.72	43.72	-35.92	-545.62	2,007.01	1,406.59	1,362.86	43.73	32.167		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,728.92	4,131.99	26.36	44.93	-35.94	-560.77	2,059.78	1,441.81	1,396.99	44.81	32.174		
5,200.00	5,036.65	4,822.51	4,207.78	26.99	46.14	-35.95	-575.91	2,112.55	1,477.02	1,431.13	45.90	32.181		
5,300.00	5,132.14	4,916.11	4,283.58	27.63	47.34	-35.97	-591.06	2,165.32	1,512.24	1,465.26	46.98	32.186		
5,400.00	5,227.63	5,009.70	4,359.38	28.26	48.55	-35.98	-606.20	2,218.09	1,547.46	1,499.39	48.07	32.191		
5,500.00	5,323.13	5,103.29	4,435.18	28.90	49.76	-36.00	-621.35	2,270.87	1,582.68	1,533.52	49.16	32.195		
5,600.00	5,418.62	5,196.88	4,510.98	29.53	50.97	-36.01	-636.49	2,323.64	1,617.89	1,567.65	50.25	32.199		
5,700.00	5,514.12	5,309.52	4,586.78	30.17	52.42	-36.02	-651.64	2,376.41	1,653.11	1,601.65	51.46	32.125		
5,800.00	5,609.61	5,384.07	4,662.57	30.80	53.39	-36.04	-666.78	2,429.18	1,688.33	1,635.90	52.43	32.204		
5,900.00	5,705.10	5,477.66	4,738.37	31.44	54.60	-36.05	-681.93	2,481.95	1,723.55	1,670.03	53.52	32.206		
6,000.00	5,800.60	5,571.26	4,814.17	32.08	55.81	-36.06	-697.08	2,534.72	1,758.76	1,704.16	54.61	32.208		
6,100.00	5,896.09	5,664.85	4,889.97	32.71	57.02	-36.07	-712.22	2,587.50	1,793.98	1,738.28	55.70	32.209		
6,200.00	5,991.59	5,758.44	4,965.77	33.35	58.23	-36.08	-727.37	2,640.27	1,829.20	1,772.41	56.79	32.210		
6,300.00	6,087.08	5,852.03	5,041.57	33.99	59.44	-36.09	-742.51	2,693.04	1,864.42	1,806.53	57.88	32.211		
6,400.00	6,182.57	5,945.63	5,117.36	34.62	60.65	-36.10	-757.66	2,745.81	1,899.63	1,840.66	58.97	32.211		
6,499.99	6,278.06	6,039.21	5,193.15	35.26	61.86	-36.11	-772.80	2,798.57	1,934.85	1,874.78	60.07	32.211		
6,505.95	6,283.75	6,044.78	5,197.67	35.30	61.93	-36.11	-773.70	2,801.72	1,936.95	1,876.81	60.13	32.211		
6,600.00	6,374.00	6,132.36	5,268.59	35.88	63.06	-36.53	-787.87	2,851.10	1,971.23	1,910.10	61.13	32.247		
6,700.00	6,470.87	6,224.41	5,343.14	36.44	64.25	-36.95	-802.77	2,903.00	2,010.21	1,948.09	62.12	32.362		
6,800.00	6,568.53	6,315.25	5,416.71	36.96	65.43	-37.36	-817.47	2,954.22	2,051.74	1,988.71	63.03	32.552		
6,900.00	6,666.89	6,507.94	5,574.94	37.43	67.84	-37.53	-847.80	3,059.89	2,094.71	2,029.66	65.05	32.200		
7,000.00	6,765.82	7,000.00	5,802.25	37.85	72.97	-37.55	-884.38	3,187.36	2,131.91	2,063.17	68.74	31.015		
7,100.00	6,865.19	7,163.35	6,160.62	38.22	73.97	-37.38	-928.06	3,339.55	2,161.73	2,091.68	70.05	30.860		
7,200.00	6,964.89	7,200.00	6,453.56	38.55	74.43	-37.35	-952.36	3,424.20	2,182.59	2,112.35	70.24	31.071		
7,300.00	7,064.80	7,894.70	6,872.56	38.83	77.34	-37.27	-971.78	3,491.88	2,194.47	2,122.96	71.51	30.686		
7,369.20	7,134.00	8,156.50	7,134.00	39.00	77.80	89.75	-975.08	3,503.37	2,196.84	2,125.84	71.01	30.939		
7,400.00	7,164.80	8,187.29	7,164.80	39.06	77.84	89.75	-975.08	3,503.37	2,196.84	2,125.70	71.14	30.878		
7,469.20	7,234.00	8,256.50	7,234.00	39.22	77.92	89.75	-975.08	3,503.37	2,196.84	2,125.39	71.46	30.743		
7,473.84	7,238.64	8,261.14	7,238.64	39.23	77.93	-89.91	-975.08	3,503.37	2,196.84	2,125.36	71.48	30.734		
7,500.00	7,264.78	8,287.10	7,264.58	39.29	77.96	-89.91	-975.89	3,503.38	2,196.84	2,125.23	71.62	30.675		
7,550.00	7,314.53	8,336.78	7,314.02	39.44	78.03	-89.91	-980.69	3,503.41	2,196.84	2,124.92	71.93	30.542		
7,600.00	7,363.66	8,386.46	7,362.85	39.62	78.11	-89.91	-989.75	3,503.46	2,196.84	2,124.54	72.31	30.383		
7,650.00	7,411.81	8,436.16	7,410.73	39.82	78.21	-89.91	-1,003.01	3,503.54	2,196.85	2,124.10	72.75	30.198		
7,700.00	7,458.61	8,485.86	7,457.28	40.06	78.32	-89.91	-1,020.37	3,503.65	2,196.85	2,123.59	73.25	29.990		
7,750.00	7,503.69	8,535.57	7,502.17	40.32	78.45	-89.92	-1,041.70	3,503.78	2,196.85	2,123.03	73.82	29.759		
7,800.00	7,546.72	8,585.29	7,545.04	40.60	78.58	-89.92	-1,066.85	3,503.93	2,196.85	2,122.40	74.45	29.508		
7,850.00	7,587.38	8,635.03	7,585.59	40.92	78.73	-89.93	-1,095.62	3,504.11	2,196.85	2,121.71	75.14	29.237		
7,900.00	7,625.34	8,684.79	7,623.51	41.25	78.89	-89.93	-1,127.82	3,504.30	2,196.85	2,120.97	75.89	28.949		
7,950.00	7,660.33	8,734.56	7,658.50	41.61	79.07	-89.94	-1,163.20	3,504.52	2,196.85	2,120.16	76.69	28.646		
8,000.00	7,692.07	8,784.36	7,690.30	42.00	79.25	-89.94	-1,201.49	3,504.75	2,196.86	2,119.31	77.55	28.329		
8,050.00	7,720.33	8,834.17	7,718.67	42.40	79.45	-89.95	-1,242.42	3,505.00	2,196.86	2,118.41	78.45	28.002		
8,100.00	7,744.89	8,884.01	7,743.39	42.83	79.66	-89.96	-1,285.68	3,505.26	2,196.86	2,117.46	79.41	27.667		
8,150.00	7,765.56	8,933.88	7,764.27	43.27	79.87	-89.97	-1,330.95	3,505.54	2,196.87	2,116.47	80.40	27.325		
8,200.00	7,782.18	8,983.77	7,781.14	43.74	80.10	-89.97	-1,377.88	3,505.82	2,196.87	2,115.45	81.42	26.981		
8,250.00	7,794.63	9,033.69	7,793.88	44.22	80.33	-89.98	-1,426.13	3,506.12	2,196.87	2,114.40	82.48	26.637		
8,300.00	7,802.82	9,083.63	7,802.36	44.71	80.57	-89.99	-1,475.33	3,506.42	2,196.87	2,113.33	83.55	26.295		
8,350.00	7,806.68	9,133.61	7,806.54	45.21	80.82	-90.00	-1,525.11	3,506.72	2,196.88	2,112.25	84.63	25.958		
8,369.28	7,807.00	9,152.88	7,806.99	45.40	80.92	-90.00	-1,544.38	3,506.84	2,196.88	2,111.83	85.05	25.830		
8,400.00	7,807.00	9,183.60	7,807.00	45.72	81.08	-90.00	-1,575.10	3,507.02	2,196.88	2,111.15	85.73	25.626		
8,500.00	7,807.00	9,283.60	7,807.00	46.77	81.60	-90.00	-1,675.10	3,507.63	2,196.89	2,108.90	87.99	24.968		
8,600.00	7,807.00	9,383.60	7,807.00	47.86	82.16	-90.00	-1,775.10	3,508.24	2,196.89	2,106.57	90.33	24.322		
8,700.00	7,807.00	9,483.60	7,807.00	48.99	82.73	-90.00	-1,875.10	3,508.85	2,196.90	2,104.16	92.74	23.688		
8,800.00	7,806.99	9,583.60	7,806.99	50.16	83.34	-90.00	-1,975.10	3,509.46	2,196.91	2,101.68	95.23	23.070		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	9,683.60	7,806.99	51.37	83.97	-90.00	-2,075.09	3,510.06	2,196.92	2,099.13	97.78	22.468		
9,000.00	7,806.99	9,783.60	7,806.99	52.60	84.63	-90.00	-2,175.09	3,510.67	2,196.92	2,096.53	100.39	21.883		
9,100.00	7,806.99	9,883.60	7,806.99	53.87	85.32	-90.00	-2,275.09	3,511.28	2,196.93	2,093.87	103.06	21.317		
9,200.00	7,806.99	9,983.60	7,806.99	55.17	86.03	-90.00	-2,375.09	3,511.89	2,196.94	2,091.16	105.78	20.769		
9,300.00	7,806.99	10,083.60	7,806.99	56.49	86.77	-90.00	-2,475.09	3,512.50	2,196.94	2,088.40	108.55	20.240		
9,400.00	7,806.99	10,183.60	7,806.99	57.83	87.53	-90.00	-2,575.08	3,513.11	2,196.95	2,085.59	111.36	19.729		
9,500.00	7,806.99	10,283.60	7,806.98	59.20	88.32	-90.00	-2,675.08	3,513.72	2,196.96	2,082.75	114.21	19.237		
9,600.00	7,806.98	10,383.60	7,806.98	60.59	89.14	-90.00	-2,775.08	3,514.32	2,196.96	2,079.87	117.10	18.762		
9,700.00	7,806.98	10,483.60	7,806.98	62.00	89.98	-90.00	-2,875.08	3,514.93	2,196.97	2,076.95	120.02	18.305		
9,800.00	7,806.98	10,583.60	7,806.98	63.43	90.85	-90.00	-2,975.08	3,515.54	2,196.98	2,074.00	122.98	17.865		
9,900.00	7,806.98	10,683.60	7,806.98	64.87	91.74	-90.00	-3,075.08	3,516.15	2,196.98	2,071.02	125.96	17.442		
10,000.00	7,806.98	10,783.60	7,806.98	66.34	92.66	-90.00	-3,175.07	3,516.76	2,196.99	2,068.01	128.98	17.034		
10,100.00	7,806.98	10,883.60	7,806.98	67.81	93.60	-90.00	-3,275.07	3,517.37	2,197.00	2,064.98	132.02	16.642		
10,200.00	7,806.98	10,983.60	7,806.97	69.30	94.56	-90.00	-3,375.07	3,517.97	2,197.00	2,061.92	135.08	16.264		
10,300.00	7,806.98	11,083.60	7,806.97	70.81	95.55	-90.00	-3,475.07	3,518.58	2,197.01	2,058.84	138.17	15.900		
10,400.00	7,806.97	11,183.60	7,806.97	72.32	96.56	-90.00	-3,575.07	3,519.19	2,197.02	2,055.73	141.28	15.551		
10,500.00	7,806.97	11,283.60	7,806.97	73.85	97.60	-90.00	-3,675.06	3,519.80	2,197.02	2,052.61	144.41	15.214		
10,600.00	7,806.97	11,383.60	7,806.97	75.39	98.66	-90.00	-3,775.06	3,520.41	2,197.03	2,049.47	147.56	14.889		
10,700.00	7,806.97	11,483.60	7,806.97	76.94	99.73	-90.00	-3,875.06	3,521.02	2,197.04	2,046.31	150.73	14.576		
10,800.00	7,806.97	11,583.60	7,806.97	78.49	100.83	-90.00	-3,975.06	3,521.62	2,197.04	2,043.13	153.91	14.275		
10,900.00	7,806.97	11,683.60	7,806.96	80.06	101.95	-90.00	-4,075.06	3,522.23	2,197.05	2,039.94	157.11	13.984		
11,000.00	7,806.97	11,783.60	7,806.96	81.64	103.09	-90.00	-4,175.05	3,522.84	2,197.06	2,036.74	160.32	13.704		
11,100.00	7,806.97	11,883.60	7,806.96	83.22	104.25	-90.00	-4,275.05	3,523.45	2,197.06	2,033.52	163.55	13.434		
11,200.00	7,806.96	11,983.60	7,806.96	84.81	105.43	-90.00	-4,375.05	3,524.06	2,197.07	2,030.28	166.79	13.173		
11,300.00	7,806.96	12,083.60	7,806.96	86.41	106.63	-90.00	-4,475.05	3,524.67	2,197.08	2,027.04	170.04	12.921		
11,400.00	7,806.96	12,183.60	7,806.96	88.01	107.84	-90.00	-4,575.05	3,525.27	2,197.08	2,023.78	173.30	12.678		
11,500.00	7,806.96	12,283.60	7,806.95	89.63	109.07	-90.00	-4,675.05	3,525.88	2,197.09	2,020.52	176.57	12.443		
11,600.00	7,806.96	12,383.60	7,806.95	91.24	110.32	-90.00	-4,775.04	3,526.49	2,197.10	2,017.24	179.86	12.216		
11,700.00	7,806.96	12,483.60	7,806.95	92.87	111.58	-90.00	-4,875.04	3,527.10	2,197.10	2,013.95	183.15	11.996		
11,800.00	7,806.96	12,583.60	7,806.95	94.49	112.86	-90.00	-4,975.04	3,527.71	2,197.11	2,010.66	186.46	11.784		
11,900.00	7,806.95	12,683.60	7,806.95	96.13	114.16	-90.00	-5,075.04	3,528.32	2,197.12	2,007.35	189.77	11.578		
12,000.00	7,806.95	12,783.60	7,806.95	97.77	115.46	-90.00	-5,175.04	3,528.92	2,197.12	2,004.04	193.09	11.379		
12,100.00	7,806.95	12,883.60	7,806.95	99.41	116.79	-90.00	-5,275.03	3,529.53	2,197.13	2,000.72	196.42	11.186		
12,200.00	7,806.95	12,983.60	7,806.94	101.06	118.12	-90.00	-5,375.03	3,530.14	2,197.14	1,997.39	199.75	10.999		
12,300.00	7,806.95	13,083.60	7,806.94	102.71	119.47	-90.00	-5,475.03	3,530.75	2,197.14	1,994.05	203.09	10.818		
12,400.00	7,806.95	13,183.60	7,806.94	104.37	120.83	-90.00	-5,575.03	3,531.36	2,197.15	1,990.71	206.44	10.643		
12,500.00	7,806.95	13,283.60	7,806.94	106.02	122.21	-90.00	-5,675.03	3,531.97	2,197.16	1,987.36	209.80	10.473		
12,600.00	7,806.95	13,383.60	7,806.94	107.69	123.59	-90.00	-5,775.03	3,532.57	2,197.16	1,984.00	213.16	10.308		
12,700.00	7,806.94	13,483.60	7,806.94	109.35	124.99	-90.00	-5,875.02	3,533.18	2,197.17	1,980.64	216.53	10.147		
12,800.00	7,806.94	13,583.60	7,806.94	111.02	126.40	-90.00	-5,975.02	3,533.79	2,197.18	1,977.28	219.90	9.992		
12,900.00	7,806.94	13,683.60	7,806.93	112.70	127.82	-90.00	-6,075.02	3,534.40	2,197.19	1,973.91	223.28	9.840		
13,000.00	7,806.94	13,783.60	7,806.93	114.37	129.25	-90.00	-6,175.02	3,535.01	2,197.19	1,970.53	226.66	9.694		
13,100.00	7,806.94	13,883.60	7,806.93	116.05	130.68	-90.00	-6,275.02	3,535.62	2,197.20	1,967.15	230.05	9.551		
13,200.00	7,806.94	13,983.60	7,806.93	117.74	132.13	-90.00	-6,375.01	3,536.23	2,197.21	1,963.76	233.45	9.412		
13,300.00	7,806.94	14,083.60	7,806.93	119.42	133.59	-90.00	-6,475.01	3,536.83	2,197.21	1,960.37	236.84	9.277		
13,400.00	7,806.94	14,183.60	7,806.93	121.11	135.05	-90.00	-6,575.01	3,537.44	2,197.22	1,956.97	240.25	9.146		
13,500.00	7,806.93	14,283.60	7,806.93	122.80	136.53	-90.00	-6,675.01	3,538.05	2,197.23	1,953.57	243.65	9.018		
13,600.00	7,806.93	14,383.60	7,806.92	124.49	138.01	-90.00	-6,775.01	3,538.66	2,197.23	1,950.17	247.06	8.893		
13,700.00	7,806.93	14,483.60	7,806.92	126.18	139.50	-90.00	-6,875.00	3,539.27	2,197.24	1,946.76	250.48	8.772		
13,800.00	7,806.93	14,583.60	7,806.92	127.88	141.00	-90.00	-6,975.00	3,539.88	2,197.25	1,943.35	253.89	8.654		
13,900.00	7,806.93	14,683.60	7,806.92	129.58	142.50	-90.00	-7,075.00	3,540.48	2,197.25	1,939.94	257.31	8.539		
14,000.00	7,806.93	14,783.60	7,806.92	131.28	144.01	-90.00	-7,175.00	3,541.09	2,197.26	1,936.52	260.74	8.427		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	14,883.60	7,806.92	132.98	145.53	-90.00	-7,275.00	3,541.70	2,197.27	1,933.10	264.17	8.318		
14,200.00	7,806.93	14,983.60	7,806.92	134.68	147.06	-90.00	-7,375.00	3,542.31	2,197.27	1,929.68	267.60	8.211		
14,300.00	7,806.92	15,083.60	7,806.91	136.39	148.59	-90.00	-7,474.99	3,542.92	2,197.28	1,926.25	271.03	8.107		
14,400.00	7,806.92	15,183.60	7,806.91	138.10	150.13	-90.00	-7,574.99	3,543.53	2,197.29	1,922.82	274.47	8.006		
14,500.00	7,806.92	15,283.60	7,806.91	139.81	151.67	-90.00	-7,674.99	3,544.13	2,197.29	1,919.39	277.90	7.907		
14,600.00	7,806.92	15,383.60	7,806.91	141.52	153.22	-90.00	-7,774.99	3,544.74	2,197.30	1,915.95	281.35	7.810		
14,700.00	7,806.92	15,483.60	7,806.91	143.23	154.77	-90.00	-7,874.99	3,545.35	2,197.31	1,912.52	284.79	7.716		
14,800.00	7,806.92	15,583.60	7,806.91	144.94	156.33	-90.00	-7,974.98	3,545.96	2,197.31	1,909.08	288.24	7.623		
14,900.00	7,806.92	15,683.60	7,806.91	146.66	157.90	-90.00	-8,074.98	3,546.57	2,197.32	1,905.63	291.69	7.533		
15,000.00	7,806.92	15,783.60	7,806.90	148.37	159.47	-90.00	-8,174.98	3,547.18	2,197.33	1,902.19	295.14	7.445		
15,100.00	7,806.91	15,883.60	7,806.90	150.09	161.04	-90.00	-8,274.98	3,547.78	2,197.33	1,898.74	298.59	7.359		
15,200.00	7,806.91	15,983.60	7,806.90	151.81	162.62	-90.00	-8,374.98	3,548.39	2,197.34	1,895.29	302.05	7.275		
15,300.00	7,806.91	16,083.60	7,806.90	153.53	164.21	-90.00	-8,474.98	3,549.00	2,197.35	1,891.84	305.50	7.193		
15,400.00	7,806.91	16,183.60	7,806.90	155.25	165.80	-90.00	-8,574.97	3,549.61	2,197.35	1,888.39	308.96	7.112		
15,500.00	7,806.91	16,283.60	7,806.90	156.97	167.39	-90.00	-8,674.97	3,550.22	2,197.36	1,884.93	312.43	7.033		
15,600.00	7,806.91	16,383.60	7,806.90	158.70	168.99	-90.00	-8,774.97	3,550.83	2,197.37	1,881.48	315.89	6.956		
15,700.00	7,806.91	16,483.60	7,806.89	160.42	170.59	-90.00	-8,874.97	3,551.43	2,197.37	1,878.02	319.35	6.881		
15,800.00	7,806.91	16,583.60	7,806.89	162.15	172.19	-90.00	-8,974.97	3,552.04	2,197.38	1,874.56	322.82	6.807		
15,900.00	7,806.90	16,683.60	7,806.89	163.88	173.80	-90.00	-9,074.96	3,552.65	2,197.39	1,871.10	326.29	6.734		
16,000.00	7,806.90	16,783.60	7,806.89	165.60	175.41	-90.00	-9,174.96	3,553.26	2,197.39	1,867.63	329.76	6.664		
16,100.00	7,806.90	16,883.60	7,806.89	167.33	177.03	-90.00	-9,274.96	3,553.87	2,197.40	1,864.17	333.23	6.594		
16,200.00	7,806.90	16,983.60	7,806.89	169.06	178.64	-90.00	-9,374.96	3,554.48	2,197.41	1,860.70	336.71	6.526		
16,300.00	7,806.90	17,083.60	7,806.89	170.79	180.27	-90.00	-9,474.96	3,555.08	2,197.41	1,857.23	340.18	6.460		
16,400.00	7,806.90	17,183.60	7,806.88	172.52	181.89	-90.00	-9,574.96	3,555.69	2,197.42	1,853.76	343.66	6.394		
16,500.00	7,806.90	17,283.60	7,806.88	174.26	183.52	-90.00	-9,674.95	3,556.30	2,197.43	1,850.29	347.14	6.330		
16,600.00	7,806.89	17,383.60	7,806.88	175.99	185.15	-90.00	-9,774.95	3,556.91	2,197.43	1,846.82	350.61	6.267		
16,700.00	7,806.89	17,483.60	7,806.88	177.72	186.78	-90.00	-9,874.95	3,557.52	2,197.44	1,843.35	354.10	6.206		
16,800.00	7,806.89	17,583.60	7,806.88	179.46	188.42	-90.00	-9,974.95	3,558.13	2,197.45	1,839.87	357.58	6.145		
16,900.00	7,806.89	17,683.60	7,806.88	181.19	190.06	-90.00	-10,074.95	3,558.74	2,197.46	1,836.39	361.06	6.086		
17,000.00	7,806.89	17,783.60	7,806.88	182.93	191.70	-90.00	-10,174.94	3,559.34	2,197.46	1,832.92	364.54	6.028		
17,100.00	7,806.89	17,883.60	7,806.87	184.67	193.35	-90.00	-10,274.94	3,559.95	2,197.47	1,829.44	368.03	5.971		
17,200.00	7,806.89	17,983.60	7,806.87	186.40	195.00	-90.00	-10,374.94	3,560.56	2,197.48	1,825.96	371.52	5.915		
17,300.00	7,806.89	18,083.60	7,806.87	188.14	196.64	-90.00	-10,474.94	3,561.17	2,197.48	1,822.48	375.00	5.860		
17,400.00	7,806.88	18,183.60	7,806.87	189.88	198.30	-90.00	-10,574.94	3,561.78	2,197.49	1,819.00	378.49	5.806		
17,500.00	7,806.88	18,283.60	7,806.87	191.62	199.95	-90.00	-10,674.93	3,562.39	2,197.50	1,815.51	381.98	5.753		
17,600.00	7,806.88	18,383.60	7,806.87	193.36	201.61	-90.00	-10,774.93	3,562.99	2,197.50	1,812.03	385.47	5.701		
17,700.00	7,806.88	18,483.60	7,806.87	195.10	203.27	-90.00	-10,874.93	3,563.60	2,197.51	1,808.54	388.97	5.650		
17,800.00	7,806.88	18,583.60	7,806.86	196.84	204.93	-90.00	-10,974.93	3,564.21	2,197.52	1,805.06	392.46	5.599		
17,900.00	7,806.88	18,683.60	7,806.86	198.58	206.59	-90.00	-11,074.93	3,564.82	2,197.52	1,801.57	395.95	5.550		
18,000.00	7,806.88	18,783.60	7,806.86	200.33	208.26	-90.00	-11,174.93	3,565.43	2,197.53	1,798.08	399.45	5.501		
18,027.46	7,807.00	18,813.46	7,806.92	200.80	208.75	-90.00	-11,204.78	3,565.59	2,197.78	1,797.42	400.37	5.489 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.70	125.96	125.97					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.70	125.96	125.97	125.70	0.27	468.526		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.70	125.96	125.97	124.98	0.99	127.780		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.70	125.96	125.97	124.26	1.70	73.978 CC, ES		
400.00	400.00	395.88	395.86	1.21	1.19	90.50	-1.11	127.52	127.59	125.19	2.40	53.207		
500.00	500.00	491.54	491.40	1.57	1.52	91.01	-2.32	132.16	132.46	129.37	3.09	42.863		
600.00	600.00	586.78	586.30	1.93	1.87	91.78	-4.33	139.84	140.57	136.79	3.78	37.159		
700.00	700.00	681.39	680.26	2.29	2.23	92.71	-7.12	150.49	151.94	147.47	4.47	33.965		
800.00	800.00	775.16	772.99	2.64	2.61	93.72	-10.66	164.00	166.55	161.39	5.16	32.282		
900.00	900.00	867.93	864.21	3.00	3.01	94.73	-14.91	180.24	184.37	178.53	5.84	31.579		
1,000.00	1,000.00	959.50	953.69	3.36	3.44	95.69	-19.84	199.08	205.35	198.84	6.51	31.547		
1,100.00	1,099.98	1,050.08	1,041.54	3.71	3.89	-30.40	-25.42	220.42	227.99	220.84	7.16	31.852		
1,200.00	1,199.84	1,140.01	1,128.02	4.04	4.38	-29.91	-31.66	244.25	250.76	242.98	7.78	32.237		
1,300.00	1,299.45	1,229.27	1,213.06	4.39	4.90	-29.72	-38.53	270.50	273.59	265.18	8.41	32.530		
1,400.00	1,398.70	1,317.88	1,296.59	4.74	5.46	-29.76	-46.01	299.07	296.48	287.43	9.05	32.773		
1,500.00	1,497.47	1,405.82	1,378.57	5.12	6.06	-29.98	-54.08	329.88	319.40	309.71	9.69	32.963		
1,600.00	1,595.62	1,493.12	1,458.93	5.51	6.71	-30.34	-62.71	362.87	342.35	332.00	10.35	33.093		
1,700.00	1,693.06	1,579.78	1,537.63	5.94	7.40	-30.81	-71.89	397.93	365.33	354.32	11.02	33.158		
1,800.00	1,789.64	1,665.79	1,614.64	6.39	8.13	-31.36	-81.59	435.00	388.36	376.65	11.71	33.156		
1,863.26	1,850.25	1,719.88	1,662.45	6.70	8.62	-31.74	-87.99	459.45	402.96	390.79	12.17	33.122		
1,900.00	1,885.34	1,751.14	1,689.87	6.89	8.92	-32.05	-91.79	473.98	411.64	399.20	12.44	33.103		
2,000.00	1,980.83	1,835.42	1,762.96	7.41	9.74	-32.78	-102.42	514.58	437.24	424.06	13.18	33.174		
2,100.00	2,076.33	1,918.43	1,833.70	7.95	10.60	-33.36	-113.41	556.59	465.65	451.72	13.93	33.419		
2,200.00	2,171.82	2,000.05	1,902.01	8.50	11.49	-33.80	-124.72	599.80	496.77	482.08	14.69	33.817		
2,300.00	2,267.32	2,080.19	1,967.81	9.07	12.43	-34.13	-136.30	644.05	530.51	515.06	15.45	34.342		
2,400.00	2,362.81	2,165.63	2,036.72	9.64	13.46	-34.38	-149.09	692.92	566.53	550.22	16.30	34.746		
2,500.00	2,458.30	2,258.75	2,111.61	10.22	14.62	-34.62	-163.10	746.45	602.91	585.62	17.30	34.855		
2,600.00	2,553.80	2,351.87	2,186.51	10.81	15.78	-34.83	-177.12	799.98	639.31	621.01	18.30	34.928		
2,700.00	2,649.29	2,444.98	2,261.40	11.41	16.96	-35.01	-191.13	853.51	675.71	656.39	19.32	34.975		
2,800.00	2,744.79	2,538.10	2,336.29	12.01	18.14	-35.18	-205.14	907.05	712.12	691.77	20.35	35.001		
2,900.00	2,840.28	2,631.22	2,411.19	12.61	19.33	-35.33	-219.15	960.58	748.53	727.15	21.38	35.011		
3,000.00	2,935.77	2,724.34	2,486.08	13.22	20.52	-35.47	-233.16	1,014.11	784.95	762.53	22.42	35.010		
3,100.00	3,031.27	2,817.46	2,560.97	13.83	21.72	-35.59	-247.17	1,067.64	821.37	797.90	23.47	35.000		
3,200.00	3,126.76	2,910.57	2,635.87	14.44	22.92	-35.71	-261.18	1,121.17	857.79	833.27	24.52	34.983		
3,300.00	3,222.26	3,003.69	2,710.76	15.06	24.13	-35.81	-275.19	1,174.70	894.22	868.64	25.58	34.961		
3,400.00	3,317.75	3,096.81	2,785.65	15.68	25.33	-35.91	-289.20	1,228.24	930.65	904.01	26.64	34.935		
3,500.00	3,413.25	3,189.93	2,860.55	16.30	26.54	-36.00	-303.21	1,281.77	967.08	939.37	27.70	34.906		
3,600.00	3,508.74	3,283.04	2,935.44	16.92	27.75	-36.08	-317.23	1,335.30	1,003.51	974.74	28.77	34.876		
3,700.00	3,604.23	3,376.16	3,010.33	17.54	28.96	-36.16	-331.24	1,388.83	1,039.94	1,010.10	29.85	34.844		
3,800.00	3,699.73	3,469.28	3,085.22	18.17	30.18	-36.23	-345.25	1,442.36	1,076.38	1,045.46	30.92	34.811		
3,900.00	3,795.22	3,562.40	3,160.12	18.79	31.39	-36.30	-359.26	1,495.89	1,112.82	1,080.82	32.00	34.778		
4,000.00	3,890.72	3,655.52	3,235.01	19.42	32.61	-36.36	-373.27	1,549.43	1,149.25	1,116.18	33.08	34.745		
4,100.00	3,986.21	3,748.63	3,309.90	20.05	33.82	-36.42	-387.28	1,602.96	1,185.69	1,151.54	34.16	34.711		
4,200.00	4,081.70	3,841.75	3,384.80	20.67	35.04	-36.47	-401.29	1,656.49	1,222.13	1,186.89	35.24	34.678		
4,300.00	4,177.20	3,934.87	3,459.69	21.30	36.26	-36.53	-415.30	1,710.02	1,258.58	1,222.25	36.33	34.646		
4,400.00	4,272.69	4,027.99	3,534.58	21.93	37.48	-36.58	-429.31	1,763.55	1,295.02	1,257.60	37.41	34.613		
4,500.00	4,368.19	4,121.10	3,609.48	22.56	38.70	-36.62	-443.32	1,817.08	1,331.46	1,292.96	38.50	34.581		
4,600.00	4,463.68	4,214.22	3,684.37	23.19	39.92	-36.67	-457.33	1,870.61	1,367.90	1,328.31	39.59	34.550		
4,700.00	4,559.17	4,307.34	3,759.26	23.83	41.14	-36.71	-471.35	1,924.15	1,404.35	1,363.67	40.68	34.519		
4,800.00	4,654.67	4,400.46	3,834.16	24.46	42.36	-36.75	-485.36	1,977.68	1,440.79	1,399.02	41.77	34.489		
4,900.00	4,750.16	4,506.42	3,909.05	25.09	43.75	-36.79	-499.37	2,031.21	1,477.24	1,434.29	42.95	34.393		
5,000.00	4,845.66	4,586.69	3,983.94	25.72	44.81	-36.82	-513.38	2,084.74	1,513.69	1,469.72	43.96	34.431		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,679.81	4,058.84	26.36	46.03	-36.86	-527.39	2,138.27	1,550.13	1,505.07	45.06	34.403		
5,200.00	5,036.65	4,772.93	4,133.73	26.99	47.25	-36.89	-541.40	2,191.80	1,586.58	1,540.43	46.15	34.376		
5,300.00	5,132.14	4,866.05	4,208.62	27.63	48.47	-36.92	-555.41	2,245.34	1,623.03	1,575.78	47.25	34.349		
5,400.00	5,227.63	4,959.16	4,283.51	28.26	49.70	-36.95	-569.42	2,298.87	1,659.47	1,611.13	48.35	34.323		
5,500.00	5,323.13	5,052.28	4,358.41	28.90	50.92	-36.98	-583.43	2,352.40	1,695.92	1,646.48	49.45	34.298		
5,600.00	5,418.62	5,145.40	4,433.30	29.53	52.15	-37.01	-597.44	2,405.93	1,732.37	1,681.82	50.55	34.273		
5,700.00	5,514.12	5,238.52	4,508.19	30.17	53.37	-37.03	-611.46	2,459.46	1,768.82	1,717.17	51.65	34.249		
5,800.00	5,609.61	5,331.64	4,583.09	30.80	54.60	-37.06	-625.47	2,512.99	1,805.27	1,752.52	52.75	34.225		
5,900.00	5,705.10	5,424.75	4,657.98	31.44	55.82	-37.08	-639.48	2,566.53	1,841.72	1,787.87	53.85	34.202		
6,000.00	5,800.60	5,517.87	4,732.87	32.08	57.05	-37.11	-653.49	2,620.06	1,878.17	1,823.22	54.95	34.179		
6,100.00	5,896.09	5,610.99	4,807.77	32.71	58.27	-37.13	-667.50	2,673.59	1,914.62	1,858.57	56.05	34.157		
6,200.00	5,991.59	5,704.11	4,882.66	33.35	59.50	-37.15	-681.51	2,727.12	1,951.07	1,893.91	57.16	34.136		
6,300.00	6,087.08	5,797.22	4,957.55	33.99	60.72	-37.17	-695.52	2,780.65	1,987.52	1,929.26	58.26	34.115		
6,400.00	6,182.57	5,909.66	5,032.45	34.62	62.20	-37.19	-709.53	2,834.18	2,023.97	1,964.48	59.49	34.022		
6,499.99	6,278.06	5,983.45	5,107.33	35.26	63.17	-37.21	-723.54	2,887.71	2,060.42	1,999.95	60.47	34.075		
6,505.95	6,283.75	5,989.00	5,111.79	35.30	63.25	-37.21	-724.38	2,890.90	2,062.59	2,002.06	60.53	34.074		
6,600.00	6,374.00	6,076.12	5,181.86	35.88	64.40	-37.67	-737.49	2,940.98	2,098.01	2,036.47	61.54	34.092		
6,700.00	6,470.87	6,167.68	5,255.50	36.44	65.60	-38.13	-751.26	2,993.62	2,138.14	2,075.60	62.54	34.189		
6,800.00	6,568.53	6,258.02	5,328.16	36.96	66.79	-38.59	-764.85	3,045.55	2,180.78	2,117.32	63.46	34.363		
6,900.00	6,666.89	6,347.03	5,399.75	37.43	67.96	-39.04	-778.25	3,096.72	2,225.88	2,161.57	64.31	34.611		
7,000.00	6,765.82	6,434.61	5,470.19	37.85	69.12	-39.48	-791.43	3,147.07	2,273.41	2,208.33	65.09	34.929		
7,100.00	6,865.19	6,520.65	5,539.39	38.22	70.25	-39.92	-804.37	3,196.53	2,323.34	2,257.54	65.79	35.313		
7,200.00	6,964.89	6,605.04	5,607.26	38.55	71.36	-40.37	-817.07	3,245.05	2,375.61	2,309.18	66.43	35.762		
7,300.00	7,064.80	6,687.68	5,673.73	38.83	72.45	-40.84	-829.50	3,292.56	2,430.21	2,363.21	67.00	36.272		
7,369.20	7,134.00	6,904.27	5,851.68	39.00	75.16	86.63	-860.75	3,411.92	2,468.26	2,399.19	69.08	35.732		
7,400.00	7,164.80	7,062.96	5,987.67	39.06	76.91	87.29	-881.44	3,491.00	2,483.57	2,413.13	70.44	35.258		
7,469.20	7,234.00	7,457.77	6,343.82	39.22	80.46	88.53	-924.41	3,655.15	2,512.37	2,439.40	72.97	34.432		
7,500.00	7,264.78	7,500.00	6,444.35	39.29	80.79	-89.84	-933.79	3,691.02	2,522.19	2,449.00	73.19	34.460		
7,550.00	7,314.53	7,978.40	6,842.78	39.44	83.46	-88.79	-961.40	3,796.49	2,534.37	2,459.87	74.50	34.020		
7,600.00	7,363.66	8,316.63	7,177.74	39.62	84.50	-89.30	-972.91	3,840.49	2,540.80	2,466.33	74.47	34.118		
7,650.00	7,411.81	8,550.91	7,411.81	39.82	84.87	-90.49	-975.00	3,848.47	2,542.03	2,467.75	74.28	34.221		
7,700.00	7,458.61	8,602.30	7,458.61	40.06	84.92	-90.84	-975.00	3,848.47	2,542.25	2,467.24	75.01	33.891		
7,750.00	7,503.69	8,643.84	7,504.74	40.32	84.97	-91.24	-975.09	3,848.47	2,542.68	2,466.85	75.84	33.529		
7,800.00	7,546.72	8,694.87	7,555.66	40.60	85.03	-91.70	-978.22	3,848.49	2,543.34	2,466.63	76.71	33.157		
7,850.00	7,587.38	8,748.44	7,608.59	40.92	85.11	-92.16	-986.37	3,848.54	2,544.19	2,466.59	77.59	32.788		
7,900.00	7,625.34	8,804.90	7,663.28	41.25	85.21	-92.62	-1,000.27	3,848.62	2,545.22	2,466.73	78.49	32.428		
7,950.00	7,660.33	8,864.61	7,719.35	41.61	85.34	-93.08	-1,020.75	3,848.75	2,546.41	2,467.04	79.37	32.085		
8,000.00	7,692.07	8,927.99	7,776.17	42.00	85.49	-93.54	-1,048.73	3,848.92	2,547.72	2,467.51	80.21	31.765		
8,050.00	7,720.33	8,995.39	7,832.82	42.40	85.66	-93.98	-1,085.18	3,849.14	2,549.10	2,468.11	80.99	31.475		
8,100.00	7,744.89	9,067.13	7,887.97	42.83	85.88	-94.42	-1,130.99	3,849.42	2,550.50	2,468.80	81.70	31.218		
8,150.00	7,765.56	9,143.41	7,939.85	43.27	86.13	-94.83	-1,186.83	3,849.76	2,551.85	2,469.53	82.32	30.999		
8,200.00	7,782.18	9,224.19	7,986.18	43.74	86.42	-95.19	-1,252.92	3,850.16	2,553.07	2,470.22	82.86	30.813		
8,250.00	7,794.63	9,309.14	8,024.38	44.22	86.75	-95.49	-1,328.71	3,850.62	2,554.09	2,470.78	83.31	30.657		
8,300.00	7,802.82	9,397.56	8,051.79	44.71	87.12	-95.72	-1,412.68	3,851.13	2,554.84	2,471.11	83.73	30.513		
8,350.00	7,806.68	9,488.35	8,066.17	45.21	87.53	-95.84	-1,502.23	3,851.67	2,555.26	2,471.12	84.15	30.367		
8,369.28	7,807.00	9,523.70	8,067.90	45.40	87.69	-95.86	-1,537.53	3,851.89	2,555.32	2,471.01	84.31	30.307		
8,400.00	7,807.00	9,559.20	8,068.00	45.72	87.85	-95.86	-1,573.02	3,852.10	2,555.33	2,470.43	84.90	30.097		
8,500.00	7,807.00	9,659.20	8,068.00	46.77	88.33	-95.86	-1,673.02	3,852.71	2,555.34	2,468.23	87.11	29.336		
8,600.00	7,807.00	9,759.20	8,068.00	47.86	88.84	-95.86	-1,773.02	3,853.32	2,555.34	2,465.95	89.39	28.586		
8,700.00	7,807.00	9,859.20	8,067.99	48.99	89.37	-95.86	-1,873.02	3,853.93	2,555.35	2,463.60	91.75	27.850		
8,800.00	7,806.99	9,959.20	8,067.99	50.16	89.92	-95.86	-1,973.02	3,854.53	2,555.36	2,461.17	94.19	27.130		
8,900.00	7,806.99	10,059.20	8,067.99	51.37	90.50	-95.86	-2,073.01	3,855.14	2,555.36	2,458.67	96.69	26.428		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	10,159.20	8,067.99	52.60	91.10	-95.86	-2,173.01	3,855.75	2,555.37	2,456.11	99.26	25.745		
9,100.00	7,806.99	10,259.20	8,067.98	53.87	91.73	-95.86	-2,273.01	3,856.36	2,555.37	2,453.50	101.88	25.082		
9,200.00	7,806.99	10,359.20	8,067.98	55.17	92.38	-95.86	-2,373.01	3,856.97	2,555.38	2,450.83	104.55	24.441		
9,300.00	7,806.99	10,459.20	8,067.98	56.49	93.05	-95.86	-2,473.01	3,857.57	2,555.39	2,448.11	107.28	23.820		
9,400.00	7,806.99	10,559.20	8,067.98	57.83	93.75	-95.86	-2,573.01	3,858.18	2,555.39	2,445.34	110.05	23.221		
9,500.00	7,806.99	10,659.20	8,067.97	59.20	94.48	-95.86	-2,673.00	3,858.79	2,555.40	2,442.54	112.86	22.642		
9,600.00	7,806.98	10,759.20	8,067.97	60.59	95.22	-95.86	-2,773.00	3,859.40	2,555.40	2,439.69	115.71	22.084		
9,700.00	7,806.98	10,859.20	8,067.97	62.00	95.99	-95.86	-2,873.00	3,860.00	2,555.41	2,436.81	118.60	21.547		
9,800.00	7,806.98	10,959.20	8,067.97	63.43	96.79	-95.86	-2,973.00	3,860.61	2,555.42	2,433.90	121.52	21.029		
9,900.00	7,806.98	11,059.20	8,067.97	64.87	97.61	-95.86	-3,073.00	3,861.22	2,555.42	2,430.95	124.47	20.530		
10,000.00	7,806.98	11,159.20	8,067.96	66.34	98.45	-95.86	-3,172.99	3,861.83	2,555.43	2,427.97	127.45	20.050		
10,100.00	7,806.98	11,259.20	8,067.96	67.81	99.32	-95.86	-3,272.99	3,862.44	2,555.44	2,424.97	130.46	19.587		
10,200.00	7,806.98	11,359.20	8,067.96	69.30	100.21	-95.86	-3,372.99	3,863.04	2,555.44	2,421.94	133.50	19.142		
10,300.00	7,806.98	11,459.20	8,067.96	70.81	101.12	-95.86	-3,472.99	3,863.65	2,555.45	2,418.89	136.56	18.714		
10,400.00	7,806.97	11,559.20	8,067.95	72.32	102.06	-95.86	-3,572.99	3,864.26	2,555.45	2,415.82	139.64	18.301		
10,500.00	7,806.97	11,659.20	8,067.95	73.85	103.01	-95.86	-3,672.98	3,864.87	2,555.46	2,412.72	142.74	17.903		
10,600.00	7,806.97	11,759.20	8,067.95	75.39	103.99	-95.86	-3,772.98	3,865.48	2,555.47	2,409.61	145.86	17.520		
10,700.00	7,806.97	11,859.20	8,067.95	76.94	105.00	-95.86	-3,872.98	3,866.08	2,555.47	2,406.47	149.00	17.151		
10,800.00	7,806.97	11,959.20	8,067.94	78.49	106.02	-95.86	-3,972.98	3,866.69	2,555.48	2,403.32	152.15	16.795		
10,900.00	7,806.97	12,059.20	8,067.94	80.06	107.06	-95.86	-4,072.98	3,867.30	2,555.48	2,400.16	155.32	16.453		
11,000.00	7,806.97	12,159.20	8,067.94	81.64	108.12	-95.86	-4,172.98	3,867.91	2,555.49	2,396.98	158.51	16.122		
11,100.00	7,806.97	12,259.20	8,067.94	83.22	109.21	-95.86	-4,272.97	3,868.51	2,555.50	2,393.78	161.71	15.803		
11,200.00	7,806.96	12,359.20	8,067.94	84.81	110.31	-95.86	-4,372.97	3,869.12	2,555.50	2,390.57	164.93	15.495		
11,300.00	7,806.96	12,459.20	8,067.93	86.41	111.43	-95.86	-4,472.97	3,869.73	2,555.51	2,387.35	168.15	15.197		
11,400.00	7,806.96	12,559.20	8,067.93	88.01	112.57	-95.86	-4,572.97	3,870.34	2,555.51	2,384.12	171.39	14.910		
11,500.00	7,806.96	12,659.20	8,067.93	89.63	113.73	-95.86	-4,672.97	3,870.95	2,555.52	2,380.88	174.64	14.633		
11,600.00	7,806.96	12,759.20	8,067.93	91.24	114.90	-95.86	-4,772.96	3,871.55	2,555.53	2,377.62	177.90	14.365		
11,700.00	7,806.96	12,859.20	8,067.92	92.87	116.09	-95.86	-4,872.96	3,872.16	2,555.53	2,374.36	181.18	14.105		
11,800.00	7,806.96	12,959.20	8,067.92	94.49	117.30	-95.86	-4,972.96	3,872.77	2,555.54	2,371.08	184.46	13.854		
11,900.00	7,806.95	13,059.20	8,067.92	96.13	118.53	-95.86	-5,072.96	3,873.38	2,555.54	2,367.80	187.75	13.612		
12,000.00	7,806.95	13,159.20	8,067.92	97.77	119.77	-95.86	-5,172.96	3,873.98	2,555.55	2,364.51	191.04	13.377		
12,100.00	7,806.95	13,259.20	8,067.91	99.41	121.02	-95.86	-5,272.96	3,874.59	2,555.56	2,361.21	194.35	13.149		
12,200.00	7,806.95	13,359.20	8,067.91	101.06	122.29	-95.86	-5,372.95	3,875.20	2,555.56	2,357.90	197.66	12.929		
12,300.00	7,806.95	13,459.20	8,067.91	102.71	123.58	-95.86	-5,472.95	3,875.81	2,555.57	2,354.58	200.99	12.715		
12,400.00	7,806.95	13,559.20	8,067.91	104.37	124.87	-95.86	-5,572.95	3,876.42	2,555.57	2,351.26	204.31	12.508		
12,500.00	7,806.95	13,659.20	8,067.91	106.02	126.19	-95.86	-5,672.95	3,877.02	2,555.58	2,347.93	207.65	12.307		
12,600.00	7,806.95	13,759.20	8,067.90	107.69	127.51	-95.86	-5,772.95	3,877.63	2,555.59	2,344.60	210.99	12.112		
12,700.00	7,806.94	13,859.20	8,067.90	109.35	128.85	-95.86	-5,872.94	3,878.24	2,555.59	2,341.25	214.34	11.923		
12,800.00	7,806.94	13,959.20	8,067.90	111.02	130.20	-95.86	-5,972.94	3,878.85	2,555.60	2,337.91	217.69	11.740		
12,900.00	7,806.94	14,059.20	8,067.90	112.70	131.56	-95.86	-6,072.94	3,879.46	2,555.60	2,334.55	221.05	11.561		
13,000.00	7,806.94	14,159.20	8,067.89	114.37	132.93	-95.86	-6,172.94	3,880.06	2,555.61	2,331.20	224.41	11.388		
13,100.00	7,806.94	14,259.20	8,067.89	116.05	134.31	-95.86	-6,272.94	3,880.67	2,555.62	2,327.83	227.78	11.219		
13,200.00	7,806.94	14,359.20	8,067.89	117.74	135.71	-95.86	-6,372.94	3,881.28	2,555.62	2,324.46	231.16	11.056		
13,300.00	7,806.94	14,459.20	8,067.89	119.42	137.11	-95.86	-6,472.93	3,881.89	2,555.63	2,321.09	234.54	10.897		
13,400.00	7,806.94	14,559.20	8,067.88	121.11	138.52	-95.86	-6,572.93	3,882.49	2,555.63	2,317.72	237.92	10.742		
13,500.00	7,806.93	14,659.20	8,067.88	122.80	139.95	-95.86	-6,672.93	3,883.10	2,555.64	2,314.33	241.31	10.591		
13,600.00	7,806.93	14,759.20	8,067.88	124.49	141.38	-95.86	-6,772.93	3,883.71	2,555.65	2,310.95	244.70	10.444		
13,700.00	7,806.93	14,859.20	8,067.88	126.18	142.82	-95.86	-6,872.93	3,884.32	2,555.65	2,307.56	248.09	10.301		
13,800.00	7,806.93	14,959.20	8,067.88	127.88	144.27	-95.86	-6,972.92	3,884.93	2,555.66	2,304.17	251.49	10.162		
13,900.00	7,806.93	15,059.20	8,067.87	129.58	145.73	-95.86	-7,072.92	3,885.53	2,555.67	2,300.77	254.89	10.026		
14,000.00	7,806.93	15,159.20	8,067.87	131.28	147.20	-95.86	-7,172.92	3,886.14	2,555.67	2,297.37	258.30	9.894		
14,100.00	7,806.93	15,259.20	8,067.87	132.98	148.67	-95.86	-7,272.92	3,886.75	2,555.68	2,293.97	261.71	9.765		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	15,359.20	8,067.87	134.68	150.15	-95.86	-7,372.92	3,887.36	2,555.68	2,290.56	265.12	9.640		
14,300.00	7,806.92	15,459.20	8,067.86	136.39	151.64	-95.86	-7,472.91	3,887.96	2,555.69	2,287.15	268.54	9.517		
14,400.00	7,806.92	15,559.20	8,067.86	138.10	153.14	-95.86	-7,572.91	3,888.57	2,555.70	2,283.74	271.95	9.398		
14,500.00	7,806.92	15,659.20	8,067.86	139.81	154.64	-95.86	-7,672.91	3,889.18	2,555.70	2,280.33	275.38	9.281		
14,600.00	7,806.92	15,759.20	8,067.86	141.52	156.15	-95.86	-7,772.91	3,889.79	2,555.71	2,276.91	278.80	9.167		
14,700.00	7,806.92	15,859.20	8,067.86	143.23	157.66	-95.86	-7,872.91	3,890.40	2,555.71	2,273.49	282.23	9.056		
14,800.00	7,806.92	15,959.20	8,067.85	144.94	159.19	-95.86	-7,972.91	3,891.00	2,555.72	2,270.06	285.65	8.947		
14,900.00	7,806.92	16,059.20	8,067.85	146.66	160.72	-95.86	-8,072.90	3,891.61	2,555.73	2,266.64	289.09	8.841		
15,000.00	7,806.92	16,159.20	8,067.85	148.37	162.25	-95.86	-8,172.90	3,892.22	2,555.73	2,263.21	292.52	8.737		
15,100.00	7,806.91	16,259.20	8,067.85	150.09	163.79	-95.86	-8,272.90	3,892.83	2,555.74	2,259.78	295.96	8.636		
15,200.00	7,806.91	16,359.20	8,067.84	151.81	165.33	-95.86	-8,372.90	3,893.44	2,555.74	2,256.35	299.39	8.536		
15,300.00	7,806.91	16,459.20	8,067.84	153.53	166.88	-95.86	-8,472.90	3,894.04	2,555.75	2,252.92	302.83	8.439		
15,400.00	7,806.91	16,559.20	8,067.84	155.25	168.44	-95.86	-8,572.89	3,894.65	2,555.76	2,249.48	306.28	8.345		
15,500.00	7,806.91	16,659.20	8,067.84	156.97	170.00	-95.86	-8,672.89	3,895.26	2,555.76	2,246.04	309.72	8.252		
15,600.00	7,806.91	16,759.20	8,067.83	158.70	171.56	-95.86	-8,772.89	3,895.87	2,555.77	2,242.60	313.17	8.161		
15,700.00	7,806.91	16,859.20	8,067.83	160.42	173.13	-95.86	-8,872.89	3,896.47	2,555.77	2,239.16	316.62	8.072		
15,800.00	7,806.91	16,959.20	8,067.83	162.15	174.71	-95.86	-8,972.89	3,897.08	2,555.78	2,235.71	320.07	7.985		
15,900.00	7,806.90	17,059.20	8,067.83	163.88	176.29	-95.86	-9,072.89	3,897.69	2,555.79	2,232.27	323.52	7.900		
16,000.00	7,806.90	17,159.20	8,067.83	165.60	177.87	-95.86	-9,172.88	3,898.30	2,555.79	2,228.82	326.97	7.817		
16,100.00	7,806.90	17,259.20	8,067.82	167.33	179.46	-95.86	-9,272.88	3,898.91	2,555.80	2,225.37	330.43	7.735		
16,200.00	7,806.90	17,359.20	8,067.82	169.06	181.05	-95.86	-9,372.88	3,899.51	2,555.80	2,221.92	333.88	7.655		
16,300.00	7,806.90	17,459.20	8,067.82	170.79	182.64	-95.86	-9,472.88	3,900.12	2,555.81	2,218.47	337.34	7.576		
16,400.00	7,806.90	17,559.20	8,067.82	172.52	184.24	-95.86	-9,572.88	3,900.73	2,555.82	2,215.02	340.80	7.499		
16,500.00	7,806.90	17,659.20	8,067.81	174.26	185.84	-95.86	-9,672.87	3,901.34	2,555.82	2,211.56	344.26	7.424		
16,600.00	7,806.89	17,759.20	8,067.81	175.99	187.45	-95.86	-9,772.87	3,901.94	2,555.83	2,208.10	347.72	7.350		
16,700.00	7,806.89	17,859.20	8,067.81	177.72	189.05	-95.86	-9,872.87	3,902.55	2,555.83	2,204.65	351.19	7.278		
16,800.00	7,806.89	17,959.20	8,067.81	179.46	190.67	-95.86	-9,972.87	3,903.16	2,555.84	2,201.19	354.65	7.207		
16,900.00	7,806.89	18,059.20	8,067.80	181.19	192.28	-95.86	-10,072.87	3,903.77	2,555.85	2,197.73	358.12	7.137		
17,000.00	7,806.89	18,159.20	8,067.80	182.93	193.90	-95.86	-10,172.86	3,904.38	2,555.85	2,194.27	361.59	7.068		
17,100.00	7,806.89	18,259.20	8,067.80	184.67	195.52	-95.86	-10,272.86	3,904.98	2,555.86	2,190.80	365.06	7.001		
17,200.00	7,806.89	18,359.20	8,067.80	186.40	197.15	-95.86	-10,372.86	3,905.59	2,555.87	2,187.34	368.53	6.935		
17,300.00	7,806.89	18,459.20	8,067.80	188.14	198.77	-95.86	-10,472.86	3,906.20	2,555.87	2,183.87	372.00	6.871		
17,400.00	7,806.88	18,559.20	8,067.79	189.88	200.40	-95.86	-10,572.86	3,906.81	2,555.88	2,180.41	375.47	6.807		
17,500.00	7,806.88	18,659.20	8,067.79	191.62	202.04	-95.86	-10,672.86	3,907.42	2,555.88	2,176.94	378.94	6.745		
17,600.00	7,806.88	18,759.20	8,067.79	193.36	203.67	-95.86	-10,772.85	3,908.02	2,555.89	2,173.47	382.42	6.684		
17,700.00	7,806.88	18,859.20	8,067.79	195.10	205.31	-95.86	-10,872.85	3,908.63	2,555.90	2,170.00	385.89	6.623		
17,800.00	7,806.88	18,959.20	8,067.78	196.84	206.95	-95.86	-10,972.85	3,909.24	2,555.90	2,166.53	389.37	6.564		
17,900.00	7,806.88	19,059.20	8,067.78	198.58	208.59	-95.86	-11,072.85	3,909.85	2,555.91	2,163.06	392.85	6.506		
18,000.00	7,806.88	19,159.20	8,067.78	200.33	210.24	-95.86	-11,172.85	3,910.45	2,555.91	2,159.59	396.32	6.449		
18,027.46	7,807.00	19,186.66	8,067.78	200.80	210.69	-95.86	-11,200.31	3,910.62	2,556.17	2,158.89	397.28	6.434 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.80	143.96	143.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.80	143.96	143.96	143.69	0.27	535.460		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.80	143.96	143.96	142.97	0.99	146.035 CC, ES		
300.00	300.00	295.30	295.28	0.85	0.83	90.46	-1.17	145.50	145.58	143.90	1.68	86.566		
400.00	400.00	390.38	390.24	1.21	1.17	90.86	-2.26	150.11	150.45	148.07	2.38	63.276		
500.00	500.00	485.05	484.58	1.57	1.51	91.48	-4.06	157.75	158.55	155.48	3.07	51.574		
600.00	600.00	579.10	577.99	1.93	1.88	92.23	-6.56	168.33	169.89	166.12	3.77	45.079		
700.00	700.00	672.33	670.20	2.29	2.26	93.07	-9.74	181.77	184.45	179.99	4.46	41.365		
800.00	800.00	764.57	760.92	2.64	2.67	93.92	-13.56	197.92	202.20	197.05	5.14	39.313		
900.00	900.00	855.63	849.92	3.00	3.10	94.75	-17.99	216.65	223.09	217.27	5.82	38.331		
1,000.00	1,000.00	945.37	936.99	3.36	3.56	95.52	-22.99	237.79	247.07	240.58	6.49	38.070		
1,100.00	1,099.98	1,034.03	1,022.30	3.71	4.04	-30.68	-28.54	261.27	272.63	265.51	7.12	38.277		
1,200.00	1,199.84	1,121.99	1,106.15	4.04	4.57	-30.23	-34.65	287.10	298.26	290.51	7.75	38.479		
1,300.00	1,299.45	1,209.23	1,188.49	4.39	5.12	-30.04	-41.29	315.18	323.91	315.54	8.38	38.657		
1,400.00	1,398.70	1,295.77	1,269.25	4.74	5.72	-30.06	-48.44	345.42	349.56	340.55	9.01	38.787		
1,500.00	1,497.47	1,381.62	1,348.40	5.12	6.36	-30.23	-56.09	377.76	375.19	365.54	9.65	38.863		
1,600.00	1,595.62	1,466.77	1,425.89	5.51	7.05	-30.52	-64.21	412.10	400.80	390.49	10.31	38.883		
1,700.00	1,693.06	1,551.24	1,501.69	5.94	7.77	-30.91	-72.79	448.37	426.38	415.40	10.98	38.842		
1,800.00	1,789.64	1,635.04	1,575.77	6.39	8.54	-31.38	-81.80	486.48	451.95	440.28	11.67	38.732		
1,863.26	1,850.25	1,687.70	1,621.73	6.70	9.04	-31.70	-87.72	511.50	468.11	456.00	12.12	38.630		
1,900.00	1,885.34	1,718.13	1,648.07	6.89	9.35	-31.99	-91.23	526.34	477.70	465.31	12.38	38.571		
2,000.00	1,980.83	1,800.10	1,718.19	7.41	10.19	-32.68	-100.99	567.64	505.70	492.57	13.12	38.533		
2,100.00	2,076.33	1,880.73	1,785.96	7.95	11.08	-33.25	-111.05	610.15	536.43	522.56	13.87	38.669		
2,200.00	2,171.82	1,959.94	1,851.31	8.50	12.00	-33.70	-121.35	653.71	569.79	555.17	14.62	38.963		
2,300.00	2,267.32	2,037.64	1,914.19	9.07	12.95	-34.05	-131.85	698.13	605.70	590.32	15.37	39.398		
2,400.00	2,362.81	2,113.77	1,974.57	9.64	13.92	-34.32	-142.52	743.24	644.05	627.93	16.12	39.959		
2,500.00	2,458.30	2,188.27	2,032.45	10.22	14.91	-34.52	-153.31	788.88	684.77	667.91	16.85	40.627		
2,600.00	2,553.80	2,261.09	2,087.83	10.81	15.93	-34.65	-164.19	834.90	727.76	710.18	17.58	41.392		
2,700.00	2,649.29	2,344.67	2,150.30	11.41	17.13	-34.76	-176.97	888.93	772.46	753.98	18.49	41.782		
2,800.00	2,744.79	2,434.05	2,217.05	12.01	18.43	-34.86	-190.65	946.79	817.28	797.79	19.49	41.924		
2,900.00	2,840.28	2,523.44	2,283.79	12.61	19.74	-34.95	-204.33	1,004.64	862.11	841.60	20.51	42.034		
3,000.00	2,935.77	2,612.82	2,350.54	13.22	21.06	-35.03	-218.02	1,062.50	906.93	885.40	21.53	42.118		
3,100.00	3,031.27	2,702.21	2,417.28	13.83	22.38	-35.11	-231.70	1,120.35	951.76	929.20	22.56	42.183		
3,200.00	3,126.76	2,808.41	2,484.03	14.44	23.96	-35.18	-245.38	1,178.21	996.59	972.88	23.71	42.035		
3,300.00	3,222.26	2,880.97	2,550.77	15.06	25.04	-35.24	-259.06	1,236.07	1,041.41	1,016.78	24.64	42.268		
3,400.00	3,317.75	2,970.36	2,617.52	15.68	26.38	-35.29	-272.74	1,293.92	1,086.24	1,060.56	25.68	42.294		
3,500.00	3,413.25	3,059.74	2,684.26	16.30	27.72	-35.35	-286.42	1,351.78	1,131.07	1,104.34	26.73	42.312		
3,600.00	3,508.74	3,149.12	2,751.01	16.92	29.06	-35.39	-300.11	1,409.64	1,175.90	1,148.12	27.78	42.324		
3,700.00	3,604.23	3,238.51	2,817.75	17.54	30.40	-35.44	-313.79	1,467.49	1,220.74	1,191.90	28.84	42.330		
3,800.00	3,699.73	3,327.89	2,884.50	18.17	31.75	-35.48	-327.47	1,525.35	1,265.57	1,235.67	29.90	42.331		
3,900.00	3,795.22	3,417.28	2,951.24	18.79	33.10	-35.52	-341.15	1,583.20	1,310.40	1,279.44	30.96	42.329		
4,000.00	3,890.72	3,506.66	3,017.99	19.42	34.45	-35.55	-354.83	1,641.06	1,355.23	1,323.21	32.02	42.324		
4,100.00	3,986.21	3,603.96	3,084.74	20.05	35.92	-35.59	-368.51	1,698.92	1,400.07	1,366.93	33.14	42.248		
4,200.00	4,081.70	3,685.43	3,151.48	20.67	37.15	-35.62	-382.20	1,756.77	1,444.90	1,410.75	34.15	42.307		
4,300.00	4,177.20	3,774.81	3,218.23	21.30	38.50	-35.65	-395.88	1,814.63	1,489.73	1,454.51	35.22	42.296		
4,400.00	4,272.69	3,864.20	3,284.97	21.93	39.85	-35.68	-409.56	1,872.49	1,534.57	1,498.28	36.29	42.284		
4,500.00	4,368.19	3,953.58	3,351.72	22.56	41.21	-35.70	-423.24	1,930.34	1,579.40	1,542.04	37.36	42.271		
4,600.00	4,463.68	4,042.96	3,418.46	23.19	42.56	-35.73	-436.92	1,988.20	1,624.24	1,585.80	38.44	42.257		
4,700.00	4,559.17	4,132.35	3,485.21	23.83	43.92	-35.75	-450.60	2,046.05	1,669.07	1,629.56	39.51	42.243		
4,800.00	4,654.67	4,221.73	3,551.95	24.46	45.27	-35.77	-464.29	2,103.91	1,713.91	1,673.32	40.59	42.228		
4,900.00	4,750.16	4,311.11	3,618.70	25.09	46.63	-35.79	-477.97	2,161.77	1,758.74	1,717.08	41.66	42.213		
5,000.00	4,845.66	4,400.50	3,685.44	25.72	47.99	-35.81	-491.65	2,219.62	1,803.58	1,760.84	42.74	42.197		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,489.88	3,752.19	26.36	49.35	-35.83	-505.33	2,277.48	1,848.41	1,804.59	43.82	42.181		
5,200.00	5,036.65	4,579.27	3,818.93	26.99	50.70	-35.85	-519.01	2,335.34	1,893.25	1,848.35	44.90	42.165		
5,300.00	5,132.14	4,668.65	3,885.68	27.63	52.06	-35.87	-532.69	2,393.19	1,938.09	1,892.10	45.98	42.149		
5,400.00	5,227.63	4,758.03	3,952.42	28.26	53.42	-35.89	-546.38	2,451.05	1,982.92	1,935.86	47.06	42.133		
5,500.00	5,323.13	4,847.42	4,019.17	28.90	54.78	-35.90	-560.06	2,508.90	2,027.76	1,979.61	48.15	42.117		
5,600.00	5,418.62	4,936.80	4,085.91	29.53	56.14	-35.92	-573.74	2,566.76	2,072.59	2,023.37	49.23	42.101		
5,700.00	5,514.12	5,026.18	4,152.66	30.17	57.50	-35.93	-587.42	2,624.62	2,117.43	2,067.12	50.31	42.085		
5,800.00	5,609.61	5,115.57	4,219.41	30.80	58.86	-35.94	-601.10	2,682.47	2,162.27	2,110.87	51.40	42.070		
5,900.00	5,705.10	5,204.95	4,286.15	31.44	60.22	-35.96	-614.78	2,740.33	2,207.10	2,154.62	52.48	42.054		
6,000.00	5,800.60	5,294.34	4,352.90	32.08	61.59	-35.97	-628.47	2,798.19	2,251.94	2,198.37	53.57	42.039		
6,100.00	5,896.09	5,383.72	4,419.64	32.71	62.95	-35.98	-642.15	2,856.04	2,296.78	2,242.12	54.65	42.023		
6,200.00	5,991.59	5,473.10	4,486.39	33.35	64.31	-36.00	-655.83	2,913.90	2,341.61	2,285.87	55.74	42.008		
6,300.00	6,087.08	5,562.49	4,553.13	33.99	65.67	-36.01	-669.51	2,971.75	2,386.45	2,329.62	56.83	41.993		
6,400.00	6,182.57	5,651.87	4,619.88	34.62	67.03	-36.02	-683.19	3,029.61	2,431.29	2,373.37	57.92	41.978		
6,499.99	6,278.06	5,741.24	4,686.61	35.26	68.39	-36.03	-696.87	3,087.46	2,476.12	2,417.11	59.01	41.964		
6,505.95	6,283.75	5,746.57	4,690.59	35.30	68.47	-36.03	-697.69	3,090.91	2,478.79	2,419.72	59.07	41.963		
6,600.00	6,374.00	5,830.07	4,752.94	35.88	69.75	-36.59	-710.47	3,144.95	2,522.07	2,462.01	60.07	41.989		
6,700.00	6,470.87	5,917.53	4,818.25	36.44	71.08	-37.19	-723.86	3,201.56	2,570.48	2,509.43	61.06	42.101		
6,800.00	6,568.53	6,003.52	4,882.46	36.96	72.39	-37.79	-737.02	3,257.22	2,621.32	2,559.34	61.97	42.296		
6,900.00	6,666.89	6,087.94	4,945.50	37.43	73.68	-38.41	-749.94	3,311.87	2,674.52	2,611.69	62.82	42.572		
7,000.00	6,765.82	6,170.69	5,007.29	37.85	74.94	-39.03	-762.61	3,365.43	2,730.03	2,666.43	63.60	42.922		
7,100.00	6,865.19	6,251.67	5,067.76	38.22	76.17	-39.67	-775.00	3,417.85	2,787.81	2,723.50	64.32	43.345		
7,200.00	6,964.89	6,330.77	5,126.83	38.55	77.38	-40.34	-787.11	3,469.05	2,847.81	2,782.85	64.96	43.837		
7,300.00	7,064.80	6,407.91	5,184.43	38.83	78.56	-41.03	-798.92	3,518.98	2,909.97	2,844.42	65.55	44.394		
7,369.20	7,134.00	6,460.09	5,223.40	39.00	79.35	-85.47	-806.91	3,552.75	2,954.23	2,888.32	65.91	44.821		
7,400.00	7,164.80	6,582.39	5,164.80	39.06	95.08	-89.81	-974.94	4,263.31	2,956.78	2,883.60	73.18	40.406		
7,469.20	7,234.00	6,651.60	7,234.00	39.22	95.14	-89.81	-974.94	4,263.31	2,956.78	2,883.30	73.48	40.240		
7,473.85	7,238.65	6,656.25	7,238.65	39.23	95.15	-89.85	-974.94	4,263.31	2,956.78	2,883.28	73.50	40.228		
7,500.00	7,264.78	6,681.96	7,264.35	39.29	95.17	-89.85	-975.74	4,263.32	2,956.78	2,883.15	73.63	40.156		
7,550.00	7,314.53	6,731.27	7,313.41	39.44	95.23	-89.85	-980.47	4,263.35	2,956.78	2,882.84	73.94	39.991		
7,600.00	7,363.66	6,780.58	7,361.89	39.62	95.30	-89.85	-989.39	4,263.40	2,956.78	2,882.48	74.31	39.792		
7,650.00	7,411.81	6,829.91	7,409.44	39.82	95.38	-89.85	-1,002.46	4,263.48	2,956.78	2,882.04	74.74	39.562		
7,700.00	7,458.61	6,879.25	7,455.71	40.06	95.47	-89.86	-1,019.57	4,263.58	2,956.78	2,881.55	75.23	39.302		
7,750.00	7,503.69	6,928.62	7,500.35	40.32	95.56	-89.86	-1,040.60	4,263.71	2,956.78	2,880.99	75.79	39.014		
7,800.00	7,546.72	6,978.01	7,543.04	40.60	95.68	-89.87	-1,065.42	4,263.86	2,956.78	2,880.38	76.41	38.699		
7,850.00	7,587.38	7,027.44	7,583.46	40.92	95.80	-89.88	-1,093.84	4,264.04	2,956.78	2,879.70	77.08	38.359		
7,900.00	7,625.34	7,076.90	7,621.31	41.25	95.93	-89.89	-1,125.66	4,264.23	2,956.78	2,878.97	77.82	37.997		
7,950.00	7,660.33	7,126.40	7,656.30	41.61	96.07	-89.90	-1,160.65	4,264.44	2,956.78	2,878.18	78.60	37.616		
8,000.00	7,692.07	7,175.95	7,688.17	42.00	96.22	-89.91	-1,198.57	4,264.67	2,956.79	2,877.34	79.45	37.218		
8,050.00	7,720.33	7,225.55	7,716.67	42.40	96.37	-89.92	-1,239.14	4,264.92	2,956.79	2,876.45	80.34	36.805		
8,100.00	7,744.89	7,275.19	7,741.59	42.83	96.54	-89.93	-1,282.06	4,265.18	2,956.79	2,875.52	81.27	36.382		
8,150.00	7,765.56	7,324.89	7,762.71	43.27	96.72	-89.94	-1,327.03	4,265.45	2,956.79	2,874.54	82.25	35.951		
8,200.00	7,782.18	7,374.65	7,779.87	43.74	96.90	-89.95	-1,373.72	4,265.73	2,956.79	2,873.54	83.25	35.515		
8,250.00	7,794.63	7,424.46	7,792.94	44.22	97.09	-89.97	-1,421.77	4,266.03	2,956.79	2,872.50	84.29	35.079		
8,300.00	7,802.82	7,474.34	7,801.79	44.71	97.29	-89.98	-1,470.84	4,266.32	2,956.80	2,871.45	85.34	34.646		
8,350.00	7,806.68	7,524.27	7,806.35	45.21	97.49	-89.99	-1,520.55	4,266.63	2,956.80	2,870.39	86.41	34.218		
8,369.28	7,807.00	7,543.54	7,806.94	45.40	97.57	-90.00	-1,539.81	4,266.74	2,956.80	2,869.98	86.82	34.056		
8,400.00	7,807.00	7,574.27	7,807.00	45.72	97.69	-90.00	-1,570.53	4,266.93	2,956.80	2,869.31	87.49	33.797		
8,500.00	7,807.00	7,674.26	7,807.00	46.77	98.12	-90.00	-1,670.52	4,267.54	2,956.81	2,867.09	89.71	32.959		
8,600.00	7,807.00	7,774.26	7,807.00	47.86	98.57	-90.00	-1,770.52	4,268.14	2,956.81	2,864.79	92.02	32.133		
8,700.00	7,807.00	7,874.26	7,806.99	48.99	99.04	-90.00	-1,870.51	4,268.75	2,956.82	2,862.42	94.40	31.322		
8,800.00	7,806.99	7,974.26	7,806.99	50.16	99.52	-90.00	-1,970.51	4,269.36	2,956.82	2,859.97	96.85	30.529		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	10,074.25	7,806.99	51.37	100.03	-90.00	-2,070.50	4,269.96	2,956.83	2,857.46	99.37	29.755		
9,000.00	7,806.99	10,174.25	7,806.99	52.60	100.56	-90.00	-2,170.50	4,270.57	2,956.83	2,854.88	101.95	29.002		
9,100.00	7,806.99	10,274.25	7,806.99	53.87	101.12	-90.00	-2,270.50	4,271.18	2,956.84	2,852.25	104.59	28.272		
9,200.00	7,806.99	10,374.25	7,806.99	55.17	101.69	-90.00	-2,370.49	4,271.79	2,956.85	2,849.57	107.27	27.563		
9,300.00	7,806.99	10,474.24	7,806.99	56.49	102.28	-90.00	-2,470.49	4,272.39	2,956.85	2,846.84	110.01	26.878		
9,400.00	7,806.99	10,574.24	7,806.98	57.83	102.90	-90.00	-2,570.48	4,273.00	2,956.86	2,844.07	112.79	26.216		
9,500.00	7,806.99	10,674.24	7,806.98	59.20	103.53	-90.00	-2,670.48	4,273.61	2,956.86	2,841.25	115.61	25.576		
9,600.00	7,806.98	10,774.23	7,806.98	60.59	104.19	-90.00	-2,770.47	4,274.22	2,956.87	2,838.40	118.47	24.958		
9,700.00	7,806.98	10,874.23	7,806.98	62.00	104.87	-90.00	-2,870.47	4,274.82	2,956.88	2,835.51	121.37	24.363		
9,800.00	7,806.98	10,974.23	7,806.98	63.43	105.57	-90.00	-2,970.46	4,275.43	2,956.88	2,832.58	124.30	23.789		
9,900.00	7,806.98	11,074.23	7,806.98	64.87	106.30	-90.00	-3,070.46	4,276.04	2,956.89	2,829.63	127.26	23.235		
10,000.00	7,806.98	11,174.22	7,806.98	66.34	107.04	-90.00	-3,170.46	4,276.65	2,956.89	2,826.65	130.25	22.702		
10,100.00	7,806.98	11,274.22	7,806.98	67.81	107.81	-90.00	-3,270.45	4,277.26	2,956.90	2,823.64	133.27	22.188		
10,200.00	7,806.98	11,374.22	7,806.97	69.30	108.59	-90.00	-3,370.45	4,277.87	2,956.91	2,820.60	136.31	21.693		
10,300.00	7,806.98	11,474.22	7,806.97	70.81	109.40	-90.00	-3,470.44	4,278.47	2,956.92	2,817.54	139.37	21.216		
10,400.00	7,806.97	11,574.21	7,806.97	72.32	110.23	-90.00	-3,570.44	4,279.08	2,956.92	2,814.46	142.46	20.756		
10,500.00	7,806.97	11,674.21	7,806.97	73.85	111.09	-90.00	-3,670.43	4,279.69	2,956.93	2,811.36	145.57	20.313		
10,600.00	7,806.97	11,774.21	7,806.97	75.39	111.96	-90.00	-3,770.43	4,280.30	2,956.94	2,808.24	148.70	19.885		
10,700.00	7,806.97	11,874.21	7,806.97	76.94	112.85	-90.00	-3,870.42	4,280.91	2,956.94	2,805.10	151.85	19.473		
10,800.00	7,806.97	11,974.20	7,806.97	78.49	113.76	-90.00	-3,970.42	4,281.52	2,956.95	2,801.94	155.01	19.076		
10,900.00	7,806.97	12,074.20	7,806.97	80.06	114.70	-90.00	-4,070.42	4,282.13	2,956.96	2,798.77	158.19	18.693		
11,000.00	7,806.97	12,174.20	7,806.97	81.64	115.65	-90.00	-4,170.41	4,282.73	2,956.97	2,795.58	161.38	18.323		
11,100.00	7,806.97	12,274.20	7,806.97	83.22	116.63	-90.00	-4,270.41	4,283.34	2,956.97	2,792.38	164.59	17.965		
11,200.00	7,806.96	12,374.19	7,806.97	84.81	117.62	-90.00	-4,370.40	4,283.95	2,956.98	2,789.17	167.81	17.621		
11,300.00	7,806.96	12,474.19	7,806.96	86.41	118.63	-90.00	-4,470.40	4,284.56	2,956.99	2,785.94	171.05	17.287		
11,400.00	7,806.96	12,574.19	7,806.96	88.01	119.67	-90.00	-4,570.39	4,285.17	2,957.00	2,782.70	174.30	16.965		
11,500.00	7,806.96	12,674.19	7,806.96	89.63	120.72	-90.00	-4,670.39	4,285.78	2,957.00	2,779.45	177.56	16.654		
11,600.00	7,806.96	12,774.18	7,806.96	91.24	121.79	-90.00	-4,770.39	4,286.39	2,957.01	2,776.19	180.82	16.353		
11,700.00	7,806.96	12,874.18	7,806.96	92.87	122.87	-90.00	-4,870.38	4,287.00	2,957.02	2,772.92	184.10	16.062		
11,800.00	7,806.96	12,974.18	7,806.96	94.49	123.98	-90.00	-4,970.38	4,287.61	2,957.03	2,769.63	187.39	15.780		
11,900.00	7,806.95	13,074.18	7,806.96	96.13	125.10	-90.00	-5,070.37	4,288.22	2,957.04	2,766.34	190.69	15.507		
12,000.00	7,806.95	13,174.17	7,806.96	97.77	126.24	-90.00	-5,170.37	4,288.83	2,957.04	2,763.05	194.00	15.243		
12,100.00	7,806.95	13,274.17	7,806.96	99.41	127.39	-90.00	-5,270.36	4,289.44	2,957.05	2,759.74	197.31	14.987		
12,200.00	7,806.95	13,374.17	7,806.96	101.06	128.56	-90.00	-5,370.36	4,290.05	2,957.06	2,756.42	200.64	14.738		
12,300.00	7,806.95	13,474.17	7,806.96	102.71	129.75	-90.00	-5,470.35	4,290.66	2,957.07	2,753.10	203.97	14.498		
12,400.00	7,806.95	13,574.16	7,806.96	104.37	130.95	-90.00	-5,570.35	4,291.27	2,957.08	2,749.77	207.31	14.264		
12,500.00	7,806.95	13,674.16	7,806.96	106.02	132.17	-90.00	-5,670.35	4,291.88	2,957.09	2,746.44	210.65	14.038		
12,600.00	7,806.95	13,774.16	7,806.96	107.69	133.40	-90.00	-5,770.34	4,292.49	2,957.10	2,743.09	214.00	13.818		
12,700.00	7,806.94	13,874.16	7,806.96	109.35	134.64	-90.00	-5,870.34	4,293.10	2,957.10	2,739.75	217.36	13.605		
12,800.00	7,806.94	13,974.15	7,806.96	111.02	135.90	-90.00	-5,970.33	4,293.71	2,957.11	2,736.39	220.72	13.398		
12,900.00	7,806.94	14,074.15	7,806.96	112.70	137.17	-90.00	-6,070.33	4,294.32	2,957.12	2,733.03	224.09	13.196		
13,000.00	7,806.94	14,174.15	7,806.96	114.37	138.46	-90.00	-6,170.32	4,294.93	2,957.13	2,729.67	227.46	13.001		
13,100.00	7,806.94	14,274.15	7,806.96	116.05	139.76	-90.00	-6,270.32	4,295.54	2,957.14	2,726.30	230.84	12.810		
13,200.00	7,806.94	14,374.14	7,806.96	117.74	141.07	-90.00	-6,370.31	4,296.16	2,957.15	2,722.92	234.23	12.625		
13,300.00	7,806.94	14,474.14	7,806.96	119.42	142.39	-90.00	-6,470.31	4,296.77	2,957.16	2,719.54	237.61	12.445		
13,400.00	7,806.94	14,574.14	7,806.96	121.11	143.72	-90.00	-6,570.31	4,297.38	2,957.17	2,716.16	241.01	12.270		
13,500.00	7,806.93	14,674.14	7,806.96	122.80	145.07	-90.00	-6,670.30	4,297.99	2,957.18	2,712.77	244.41	12.099		
13,600.00	7,806.93	14,774.13	7,806.96	124.49	146.42	-90.00	-6,770.30	4,298.60	2,957.19	2,709.38	247.81	11.933		
13,700.00	7,806.93	14,874.13	7,806.96	126.18	147.79	-90.00	-6,870.29	4,299.21	2,957.20	2,705.99	251.21	11.772		
13,800.00	7,806.93	14,974.13	7,806.96	127.88	149.16	-90.00	-6,970.29	4,299.82	2,957.21	2,702.59	254.62	11.614		
13,900.00	7,806.93	15,074.13	7,806.96	129.58	150.55	-90.00	-7,070.28	4,300.43	2,957.22	2,699.18	258.03	11.461		
14,000.00	7,806.93	15,174.12	7,806.96	131.28	151.95	-90.00	-7,170.28	4,301.05	2,957.23	2,695.78	261.45	11.311		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	15,274.12	7,806.96	132.98	153.35	-90.00	-7,270.28	4,301.66	2,957.24	2,692.37	264.87	11.165		
14,200.00	7,806.93	15,374.12	7,806.96	134.68	154.77	-90.00	-7,370.27	4,302.27	2,957.25	2,688.95	268.29	11.022		
14,300.00	7,806.92	15,474.12	7,806.96	136.39	156.19	-90.00	-7,470.27	4,302.88	2,957.26	2,685.54	271.72	10.883		
14,400.00	7,806.92	15,574.11	7,806.96	138.10	157.62	-90.00	-7,570.26	4,303.49	2,957.27	2,682.12	275.15	10.748		
14,500.00	7,806.92	15,674.11	7,806.96	139.81	159.06	-90.00	-7,670.26	4,304.10	2,957.28	2,678.70	278.58	10.615		
14,600.00	7,806.92	15,774.11	7,806.96	141.52	160.51	-90.00	-7,770.25	4,304.72	2,957.29	2,675.27	282.02	10.486		
14,700.00	7,806.92	15,874.11	7,806.96	143.23	161.96	-90.00	-7,870.25	4,305.33	2,957.30	2,671.84	285.46	10.360		
14,800.00	7,806.92	15,974.10	7,806.96	144.94	163.43	-90.00	-7,970.24	4,305.94	2,957.31	2,668.41	288.90	10.237		
14,900.00	7,806.92	16,074.10	7,806.96	146.66	164.90	-90.00	-8,070.24	4,306.55	2,957.32	2,664.98	292.34	10.116		
15,000.00	7,806.92	16,174.10	7,806.96	148.37	166.38	-90.00	-8,170.24	4,307.17	2,957.33	2,661.55	295.78	9.998		
15,100.00	7,806.91	16,274.10	7,806.96	150.09	167.86	-90.00	-8,270.23	4,307.78	2,957.34	2,658.11	299.23	9.883		
15,200.00	7,806.91	16,374.09	7,806.96	151.81	169.35	-90.00	-8,370.23	4,308.39	2,957.35	2,654.67	302.68	9.770		
15,300.00	7,806.91	16,474.09	7,806.97	153.53	170.85	-90.00	-8,470.22	4,309.00	2,957.37	2,651.23	306.13	9.660		
15,400.00	7,806.91	16,574.09	7,806.97	155.25	172.35	-90.00	-8,570.22	4,309.62	2,957.38	2,647.79	309.59	9.553		
15,500.00	7,806.91	16,674.08	7,806.97	156.97	173.86	-90.00	-8,670.21	4,310.23	2,957.39	2,644.34	313.04	9.447		
15,600.00	7,806.91	16,774.08	7,806.97	158.70	175.38	-90.00	-8,770.21	4,310.84	2,957.40	2,640.90	316.50	9.344		
15,700.00	7,806.91	16,874.08	7,806.97	160.42	176.90	-90.00	-8,870.20	4,311.46	2,957.41	2,637.45	319.96	9.243		
15,800.00	7,806.91	16,974.08	7,806.97	162.15	178.43	-90.00	-8,970.20	4,312.07	2,957.42	2,634.00	323.43	9.144		
15,900.00	7,806.90	17,074.07	7,806.97	163.88	179.96	-90.00	-9,070.20	4,312.68	2,957.43	2,630.54	326.89	9.047		
16,000.00	7,806.90	17,174.07	7,806.97	165.60	181.50	-90.00	-9,170.19	4,313.30	2,957.45	2,627.09	330.35	8.952		
16,100.00	7,806.90	17,274.07	7,806.97	167.33	183.04	-90.00	-9,270.19	4,313.91	2,957.46	2,623.64	333.82	8.859		
16,200.00	7,806.90	17,374.07	7,806.97	169.06	184.59	-90.00	-9,370.18	4,314.52	2,957.47	2,620.18	337.29	8.768		
16,300.00	7,806.90	17,474.06	7,806.97	170.79	186.14	-90.00	-9,470.18	4,315.14	2,957.48	2,616.72	340.76	8.679		
16,400.00	7,806.90	17,574.06	7,806.98	172.52	187.70	-90.00	-9,570.17	4,315.75	2,957.49	2,613.26	344.23	8.592		
16,500.00	7,806.90	17,674.06	7,806.98	174.26	189.26	-90.00	-9,670.17	4,316.36	2,957.51	2,609.80	347.71	8.506		
16,600.00	7,806.89	17,774.06	7,806.98	175.99	190.83	-90.00	-9,770.16	4,316.98	2,957.52	2,606.34	351.18	8.422		
16,700.00	7,806.89	17,874.05	7,806.98	177.72	192.40	-90.00	-9,870.16	4,317.59	2,957.53	2,602.87	354.66	8.339		
16,800.00	7,806.89	17,974.05	7,806.98	179.46	193.97	-90.00	-9,970.16	4,318.21	2,957.54	2,599.41	358.14	8.258		
16,900.00	7,806.89	18,074.05	7,806.98	181.19	195.55	-90.00	-10,070.15	4,318.82	2,957.55	2,595.94	361.61	8.179		
17,000.00	7,806.89	18,174.05	7,806.98	182.93	197.13	-90.00	-10,170.15	4,319.43	2,957.57	2,592.47	365.09	8.101		
17,100.00	7,806.89	18,274.04	7,806.99	184.67	198.72	-90.00	-10,270.14	4,320.05	2,957.58	2,589.00	368.58	8.024		
17,200.00	7,806.89	18,374.04	7,806.99	186.40	200.31	-90.00	-10,370.14	4,320.66	2,957.59	2,585.53	372.06	7.949		
17,300.00	7,806.89	18,474.04	7,806.99	188.14	201.90	-90.00	-10,470.13	4,321.28	2,957.61	2,582.06	375.54	7.876		
17,400.00	7,806.88	18,574.04	7,806.99	189.88	203.50	-90.00	-10,570.13	4,321.89	2,957.62	2,578.59	379.03	7.803		
17,500.00	7,806.88	18,674.03	7,806.99	191.62	205.10	-90.00	-10,670.12	4,322.51	2,957.63	2,575.12	382.51	7.732		
17,600.00	7,806.88	18,774.03	7,806.99	193.36	206.70	-90.00	-10,770.12	4,323.12	2,957.64	2,571.64	386.00	7.662		
17,700.00	7,806.88	18,874.03	7,806.99	195.10	208.31	-90.00	-10,870.12	4,323.74	2,957.66	2,568.17	389.49	7.594		
17,800.00	7,806.88	18,974.03	7,807.00	196.84	209.92	-90.00	-10,970.11	4,324.35	2,957.67	2,564.69	392.98	7.526		
17,900.00	7,806.88	19,074.02	7,807.00	198.58	211.53	-90.00	-11,070.11	4,324.97	2,957.68	2,561.21	396.47	7.460		
18,000.00	7,806.88	19,174.02	7,807.00	200.33	213.15	-90.00	-11,170.10	4,325.58	2,957.70	2,557.74	399.96	7.395		
18,027.46	7,807.00	19,201.48	7,807.00	200.80	213.59	-90.00	-11,197.57	4,325.75	2,957.97	2,557.05	400.92	7.378 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.90	161.95	161.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.90	161.95	161.96	161.69	0.27	602.394	CC, ES	
200.00	200.00	194.73	194.71	0.49	0.47	90.43	-1.24	163.48	163.57	162.60	0.97	168.851		
300.00	300.00	289.25	289.11	0.85	0.81	90.77	-2.24	168.06	168.42	166.75	1.67	100.838		
400.00	400.00	383.36	382.90	1.21	1.16	91.28	-3.91	175.63	176.50	174.13	2.37	74.431		
500.00	500.00	476.86	475.77	1.57	1.53	91.91	-6.22	186.13	187.80	184.73	3.07	61.169		
600.00	600.00	569.56	567.46	1.93	1.92	92.63	-9.15	199.45	202.30	198.53	3.76	53.731		
700.00	700.00	661.28	657.69	2.29	2.34	93.37	-12.67	215.48	219.96	215.51	4.45	49.382		
800.00	800.00	751.84	746.23	2.64	2.77	94.10	-16.76	234.07	240.75	235.61	5.14	46.867		
900.00	900.00	841.10	832.87	3.00	3.24	94.79	-21.38	255.06	264.61	258.80	5.81	45.529		
1,000.00	1,000.00	928.92	917.40	3.36	3.73	95.44	-26.48	278.26	291.47	284.99	6.48	44.994		
1,100.00	1,099.98	1,015.59	1,000.08	3.71	4.25	-30.83	-32.06	303.64	319.83	312.72	7.11	44.974		
1,200.00	1,199.84	1,101.52	1,081.24	4.04	4.80	-30.39	-38.12	331.20	348.21	340.47	7.73	45.028		
1,300.00	1,299.45	1,186.70	1,160.83	4.39	5.40	-30.18	-44.64	360.85	376.54	368.18	8.36	45.049		
1,400.00	1,398.70	1,271.15	1,238.80	4.74	6.04	-30.15	-51.61	392.52	404.81	395.82	8.99	45.029		
1,500.00	1,497.47	1,354.88	1,315.14	5.12	6.71	-30.26	-59.00	426.12	432.99	423.36	9.63	44.966		
1,600.00	1,595.62	1,437.90	1,389.79	5.51	7.43	-30.48	-66.79	461.57	461.09	450.81	10.28	44.853		
1,700.00	1,693.06	1,520.21	1,462.74	5.94	8.18	-30.78	-74.98	498.78	489.10	478.16	10.95	44.683		
1,800.00	1,789.64	1,601.82	1,533.97	6.39	8.97	-31.16	-83.54	537.70	517.02	505.39	11.63	44.447		
1,863.26	1,850.25	1,653.10	1,578.13	6.70	9.50	-31.43	-89.13	563.15	534.64	522.56	12.08	44.256		
1,900.00	1,885.34	1,682.71	1,603.42	6.89	9.81	-31.69	-92.44	578.20	545.05	532.71	12.34	44.153		
2,000.00	1,980.83	1,762.43	1,670.69	7.41	10.69	-32.34	-101.63	619.98	575.25	562.17	13.08	43.983		
2,100.00	2,076.33	1,840.78	1,735.62	7.95	11.59	-32.88	-111.05	662.80	608.10	594.28	13.82	44.004		
2,200.00	2,171.82	1,917.68	1,798.15	8.50	12.52	-33.32	-120.66	706.50	643.50	628.94	14.56	44.193		
2,300.00	2,267.32	1,993.06	1,858.26	9.07	13.48	-33.68	-130.43	750.92	681.36	666.06	15.30	44.529		
2,400.00	2,362.81	2,066.86	1,915.94	9.64	14.46	-33.96	-140.32	795.88	721.59	705.55	16.04	44.989		
2,500.00	2,458.30	2,139.04	1,971.19	10.22	15.46	-34.19	-150.29	841.25	764.10	747.33	16.77	45.569		
2,600.00	2,553.80	2,209.57	2,024.02	10.81	16.48	-34.35	-160.33	886.88	808.81	791.32	17.48	46.257		
2,700.00	2,649.29	2,278.41	2,074.46	11.41	17.51	-34.48	-170.39	932.63	855.63	837.44	18.19	47.035		
2,800.00	2,744.79	2,362.94	2,135.51	12.01	18.80	-34.59	-182.95	989.74	903.78	884.63	19.14	47.211		
2,900.00	2,840.28	2,450.56	2,198.77	12.61	20.16	-34.70	-195.97	1,048.95	951.95	931.80	20.15	47.241		
3,000.00	2,935.77	2,538.17	2,262.02	13.22	21.52	-34.79	-208.99	1,108.15	1,000.13	978.97	21.17	47.251		
3,100.00	3,031.27	2,625.79	2,325.28	13.83	22.89	-34.88	-222.01	1,167.36	1,048.31	1,026.12	22.19	47.246		
3,200.00	3,126.76	2,713.41	2,388.54	14.44	24.26	-34.96	-235.03	1,226.57	1,096.49	1,073.28	23.22	47.229		
3,300.00	3,222.26	2,801.03	2,451.80	15.06	25.64	-35.03	-248.05	1,285.77	1,144.68	1,120.43	24.25	47.204		
3,400.00	3,317.75	2,888.64	2,515.06	15.68	27.02	-35.10	-261.07	1,344.98	1,192.86	1,167.57	25.29	47.173		
3,500.00	3,413.25	2,976.26	2,578.32	16.30	28.41	-35.16	-274.10	1,404.19	1,241.05	1,214.72	26.33	47.136		
3,600.00	3,508.74	3,063.88	2,641.58	16.92	29.79	-35.22	-287.12	1,463.40	1,289.23	1,261.86	27.37	47.097		
3,700.00	3,604.23	3,151.50	2,704.84	17.54	31.18	-35.27	-300.14	1,522.60	1,337.42	1,309.00	28.42	47.055		
3,800.00	3,699.73	3,239.11	2,768.10	18.17	32.57	-35.32	-313.16	1,581.81	1,385.61	1,356.14	29.47	47.011		
3,900.00	3,795.22	3,326.73	2,831.36	18.79	33.97	-35.37	-326.18	1,641.02	1,433.80	1,403.27	30.53	46.966		
4,000.00	3,890.72	3,414.35	2,894.62	19.42	35.36	-35.41	-339.20	1,700.23	1,481.99	1,450.40	31.58	46.921		
4,100.00	3,986.21	3,501.97	2,957.88	20.05	36.76	-35.45	-352.22	1,759.43	1,530.18	1,497.54	32.64	46.876		
4,200.00	4,081.70	3,589.58	3,021.14	20.67	38.16	-35.49	-365.24	1,818.64	1,578.37	1,544.67	33.70	46.830		
4,300.00	4,177.20	3,677.20	3,084.40	21.30	39.55	-35.53	-378.26	1,877.85	1,626.56	1,591.79	34.77	46.785		
4,400.00	4,272.69	3,764.82	3,147.66	21.93	40.95	-35.56	-391.28	1,937.05	1,674.75	1,638.92	35.83	46.741		
4,500.00	4,368.19	3,852.44	3,210.92	22.56	42.35	-35.59	-404.30	1,996.26	1,722.95	1,686.05	36.90	46.697		
4,600.00	4,463.68	3,940.05	3,274.18	23.19	43.75	-35.62	-417.32	2,055.47	1,771.14	1,733.17	37.96	46.654		
4,700.00	4,559.17	4,027.67	3,337.44	23.83	45.16	-35.65	-430.35	2,114.68	1,819.33	1,780.30	39.03	46.611		
4,800.00	4,654.67	4,115.29	3,400.70	24.46	46.56	-35.68	-443.37	2,173.88	1,867.52	1,827.42	40.10	46.569		
4,900.00	4,750.16	4,202.91	3,463.96	25.09	47.96	-35.70	-456.39	2,233.09	1,915.72	1,874.55	41.17	46.529		
5,000.00	4,845.66	4,309.48	3,527.22	25.72	49.67	-35.73	-469.41	2,292.30	1,963.91	1,921.53	42.38	46.343		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,378.14	3,590.48	26.36	50.77	-35.75	-482.43	2,351.51	2,012.11	1,968.79	43.32	46.449		
5,200.00	5,036.65	4,465.76	3,653.73	26.99	52.17	-35.77	-495.45	2,410.71	2,060.30	2,015.91	44.39	46.411		
5,300.00	5,132.14	4,553.38	3,716.99	27.63	53.58	-35.80	-508.47	2,469.92	2,108.50	2,063.03	45.47	46.374		
5,400.00	5,227.63	4,640.99	3,780.25	28.26	54.98	-35.82	-521.49	2,529.13	2,156.69	2,110.15	46.54	46.337		
5,500.00	5,323.13	4,728.61	3,843.51	28.90	56.39	-35.83	-534.51	2,588.33	2,204.89	2,157.27	47.62	46.302		
5,600.00	5,418.62	4,816.23	3,906.77	29.53	57.80	-35.85	-547.53	2,647.54	2,253.08	2,204.38	48.70	46.267		
5,700.00	5,514.12	4,903.85	3,970.03	30.17	59.20	-35.87	-560.55	2,706.75	2,301.28	2,251.50	49.78	46.233		
5,800.00	5,609.61	4,991.46	4,033.29	30.80	60.61	-35.89	-573.57	2,765.96	2,349.47	2,298.62	50.86	46.199		
5,900.00	5,705.10	5,079.08	4,096.55	31.44	62.01	-35.90	-586.60	2,825.16	2,397.67	2,345.73	51.93	46.167		
6,000.00	5,800.60	5,166.70	4,159.81	32.08	63.42	-35.92	-599.62	2,884.37	2,445.86	2,392.85	53.02	46.135		
6,100.00	5,896.09	5,254.31	4,223.07	32.71	64.83	-35.94	-612.64	2,943.58	2,494.06	2,439.96	54.10	46.104		
6,200.00	5,991.59	5,341.93	4,286.33	33.35	66.24	-35.95	-625.66	3,002.79	2,542.26	2,487.08	55.18	46.074		
6,300.00	6,087.08	5,429.55	4,349.59	33.99	67.64	-35.96	-638.68	3,061.99	2,590.45	2,534.19	56.26	46.044		
6,400.00	6,182.57	5,517.17	4,412.85	34.62	69.05	-35.98	-651.70	3,121.20	2,638.65	2,581.31	57.34	46.015		
6,499.99	6,278.06	5,604.77	4,476.10	35.26	70.46	-35.99	-664.72	3,180.40	2,686.84	2,628.41	58.43	45.986		
6,505.95	6,283.75	5,609.99	4,479.87	35.30	70.54	-35.99	-665.49	3,183.93	2,689.71	2,631.22	58.49	45.985		
6,600.00	6,374.00	5,708.21	4,538.93	35.88	72.12	-36.61	-677.65	3,239.20	2,736.13	2,676.53	59.60	45.910		
6,700.00	6,470.87	5,777.35	4,600.70	36.44	73.23	-37.28	-690.37	3,297.02	2,787.83	2,727.36	60.47	46.104		
6,800.00	6,568.53	5,861.36	4,661.35	36.96	74.59	-37.96	-702.85	3,353.79	2,841.89	2,780.50	61.39	46.295		
6,900.00	6,666.89	5,943.71	4,720.81	37.43	75.91	-38.65	-715.09	3,409.44	2,898.25	2,836.02	62.23	46.570		
7,000.00	6,765.82	6,024.31	4,779.00	37.85	77.21	-39.36	-727.07	3,463.90	2,956.86	2,893.85	63.02	46.923		
7,100.00	6,865.19	6,103.05	4,835.85	38.22	78.47	-40.10	-738.77	3,517.11	3,017.67	2,953.94	63.73	47.351		
7,200.00	6,964.89	6,179.84	4,891.30	38.55	79.71	-40.87	-750.18	3,569.00	3,080.61	3,016.23	64.38	47.852		
7,300.00	7,064.80	6,254.59	4,945.27	38.83	80.91	-41.68	-761.29	3,619.51	3,145.64	3,080.67	64.97	48.420		
7,369.20	7,134.00	6,305.08	4,981.72	39.00	81.72	-84.74	-768.79	3,653.63	3,191.82	3,126.49	65.33	48.856		
7,400.00	7,164.80	6,327.31	4,997.77	39.06	82.08	-84.86	-772.10	3,668.66	3,212.59	3,147.11	65.49	49.057		
7,469.20	7,234.00	6,377.28	5,033.85	39.22	82.88	-85.10	-779.52	3,702.42	3,259.29	3,193.46	65.84	49.506		
7,500.00	7,264.78	6,399.63	5,049.98	39.29	83.24	-91.64	-782.84	3,717.52	3,280.12	3,214.11	66.01	49.691		
7,550.00	7,314.53	6,407.12	5,071.13	39.44	102.80	-89.83	-980.09	4,590.77	3,284.20	3,209.42	74.78	43.921		
7,600.00	7,363.66	6,455.02	5,088.27	39.62	102.86	-89.83	-988.51	4,590.86	3,284.24	3,209.09	75.15	43.702		
7,650.00	7,411.81	6,502.96	5,104.58	39.82	102.93	-89.84	-1,000.85	4,590.99	3,284.30	3,208.71	75.59	43.447		
7,700.00	7,458.61	6,550.95	5,131.74	40.06	103.01	-89.84	-1,017.04	4,591.16	3,284.38	3,208.28	76.10	43.160		
7,750.00	7,503.69	6,599.00	5,159.45	40.32	103.10	-89.85	-1,036.97	4,591.38	3,284.47	3,207.81	76.67	42.841		
7,800.00	7,546.72	6,647.13	5,188.40	40.60	103.20	-89.85	-1,060.54	4,591.63	3,284.59	3,207.29	77.30	42.494		
7,850.00	7,587.38	6,695.36	5,217.29	40.92	103.31	-89.86	-1,087.60	4,591.92	3,284.72	3,206.73	77.98	42.120		
7,900.00	7,625.34	6,743.68	5,246.85	41.25	103.42	-89.87	-1,117.98	4,592.25	3,284.86	3,206.13	78.73	41.723		
7,950.00	7,660.33	6,792.13	5,276.80	41.61	103.55	-89.88	-1,151.51	4,592.61	3,285.03	3,205.49	79.53	41.305		
8,000.00	7,692.07	6,840.70	5,307.87	42.00	103.69	-89.89	-1,187.96	4,593.01	3,285.20	3,204.82	80.38	40.869		
8,050.00	7,720.33	6,889.41	5,339.82	42.40	103.83	-89.90	-1,227.12	4,593.43	3,285.39	3,204.11	81.28	40.420		
8,100.00	7,744.89	6,938.27	5,373.41	42.83	103.99	-89.91	-1,268.72	4,593.88	3,285.59	3,203.37	82.22	39.959		
8,150.00	7,765.56	6,987.29	5,406.43	43.27	104.15	-89.93	-1,312.49	4,594.35	3,285.80	3,202.60	83.20	39.492		
8,200.00	7,782.18	7,036.47	5,439.69	43.74	104.32	-89.94	-1,358.15	4,594.84	3,286.02	3,201.81	84.21	39.021		
8,250.00	7,794.63	7,085.83	5,473.00	44.22	104.49	-89.96	-1,405.37	4,595.35	3,286.24	3,201.00	85.25	38.550		
8,300.00	7,802.82	7,135.38	5,506.23	44.71	104.67	-89.97	-1,453.83	4,595.87	3,286.48	3,200.18	86.30	38.083		
8,350.00	7,806.68	7,185.11	5,539.26	45.21	104.86	-89.98	-1,503.17	4,596.40	3,286.71	3,199.35	87.36	37.624		
8,369.28	7,807.00	7,194.33	5,546.43	45.40	104.94	-89.99	-1,522.36	4,596.61	3,286.80	3,199.04	87.76	37.450		
8,400.00	7,807.00	7,243.04	5,579.00	45.72	105.06	-90.00	-1,553.06	4,596.94	3,286.95	3,198.52	88.42	37.173		
8,500.00	7,807.00	7,293.04	5,611.99	46.77	105.45	-90.00	-1,653.05	4,598.02	3,287.42	3,196.78	90.64	36.268		
8,600.00	7,807.00	7,343.04	5,644.99	47.86	105.87	-90.00	-1,753.04	4,599.09	3,287.90	3,194.96	92.94	35.377		
8,700.00	7,807.00	7,393.04	5,677.98	48.99	106.31	-90.00	-1,853.04	4,600.17	3,288.38	3,193.06	95.31	34.501		
8,800.00	7,806.99	7,443.04	5,710.98	50.16	106.76	-90.00	-1,953.03	4,601.25	3,288.85	3,191.09	97.76	33.643		
8,900.00	7,806.99	7,493.04	5,743.98	51.37	107.24	-90.00	-2,053.02	4,602.33	3,289.33	3,189.06	100.27	32.806		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	10,335.03	7,806.97	52.60	107.73	-90.00	-2,153.02	4,603.40	3,289.80	3,186.97	102.84	31.991		
9,100.00	7,806.99	10,435.03	7,806.97	53.87	108.24	-90.00	-2,253.01	4,604.48	3,290.28	3,184.82	105.46	31.199		
9,200.00	7,806.99	10,535.03	7,806.96	55.17	108.78	-90.00	-2,353.00	4,605.56	3,290.75	3,182.61	108.14	30.431		
9,300.00	7,806.99	10,635.03	7,806.96	56.49	109.33	-90.00	-2,453.00	4,606.64	3,291.23	3,180.36	110.87	29.687		
9,400.00	7,806.99	10,735.03	7,806.95	57.83	109.90	-90.00	-2,552.99	4,607.71	3,291.71	3,178.07	113.64	28.967		
9,500.00	7,806.99	10,835.03	7,806.95	59.20	110.49	-90.00	-2,652.98	4,608.79	3,292.18	3,175.73	116.45	28.271		
9,600.00	7,806.98	10,935.03	7,806.95	60.59	111.10	-90.00	-2,752.98	4,609.87	3,292.66	3,173.35	119.30	27.599		
9,700.00	7,806.98	11,035.03	7,806.94	62.00	111.73	-90.00	-2,852.97	4,610.94	3,293.13	3,170.94	122.19	26.951		
9,800.00	7,806.98	11,135.03	7,806.94	63.43	112.38	-90.00	-2,952.96	4,612.02	3,293.61	3,168.50	125.11	26.325		
9,900.00	7,806.98	11,235.03	7,806.93	64.87	113.05	-90.00	-3,052.96	4,613.10	3,294.08	3,166.02	128.06	25.722		
10,000.00	7,806.98	11,335.03	7,806.93	66.34	113.74	-90.00	-3,152.95	4,614.18	3,294.56	3,163.51	131.05	25.140		
10,100.00	7,806.98	11,435.03	7,806.93	67.81	114.45	-90.00	-3,252.94	4,615.25	3,295.03	3,160.98	134.06	24.580		
10,200.00	7,806.98	11,535.02	7,806.92	69.30	115.18	-90.00	-3,352.94	4,616.33	3,295.51	3,158.42	137.09	24.039		
10,300.00	7,806.98	11,635.02	7,806.92	70.81	115.93	-90.00	-3,452.93	4,617.41	3,295.99	3,155.84	140.15	23.518		
10,400.00	7,806.97	11,735.02	7,806.92	72.32	116.70	-90.00	-3,552.92	4,618.49	3,296.46	3,153.23	143.23	23.015		
10,500.00	7,806.97	11,835.02	7,806.91	73.85	117.49	-90.00	-3,652.92	4,619.56	3,296.94	3,150.60	146.33	22.530		
10,600.00	7,806.97	11,935.02	7,806.91	75.39	118.31	-90.00	-3,752.91	4,620.64	3,297.41	3,147.96	149.45	22.063		
10,700.00	7,806.97	12,035.02	7,806.91	76.94	119.14	-90.00	-3,852.90	4,621.72	3,297.89	3,145.29	152.59	21.612		
10,800.00	7,806.97	12,135.02	7,806.91	78.49	119.99	-90.00	-3,952.90	4,622.79	3,298.36	3,142.61	155.75	21.177		
10,900.00	7,806.97	12,235.02	7,806.90	80.06	120.85	-90.00	-4,052.89	4,623.87	3,298.84	3,139.91	158.93	20.757		
11,000.00	7,806.97	12,335.02	7,806.90	81.64	121.74	-90.00	-4,152.88	4,624.95	3,299.31	3,137.20	162.11	20.352		
11,100.00	7,806.97	12,435.02	7,806.90	83.22	122.65	-90.00	-4,252.88	4,626.03	3,299.79	3,134.47	165.32	19.960		
11,200.00	7,806.96	12,535.02	7,806.90	84.81	123.58	-90.00	-4,352.87	4,627.10	3,300.27	3,131.73	168.54	19.582		
11,300.00	7,806.96	12,635.02	7,806.89	86.41	124.53	-90.00	-4,452.86	4,628.18	3,300.74	3,128.98	171.77	19.217		
11,400.00	7,806.96	12,735.01	7,806.89	88.01	125.49	-90.00	-4,552.86	4,629.26	3,301.22	3,126.21	175.01	18.863		
11,500.00	7,806.96	12,835.01	7,806.89	89.63	126.47	-90.00	-4,652.85	4,630.33	3,301.69	3,123.43	178.26	18.522		
11,600.00	7,806.96	12,935.01	7,806.89	91.24	127.47	-90.00	-4,752.84	4,631.41	3,302.17	3,120.64	181.53	18.191		
11,700.00	7,806.96	13,035.01	7,806.89	92.87	128.49	-90.00	-4,852.84	4,632.49	3,302.64	3,117.84	184.80	17.871		
11,800.00	7,806.96	13,135.01	7,806.89	94.49	129.53	-90.00	-4,952.83	4,633.56	3,303.12	3,115.03	188.09	17.562		
11,900.00	7,806.95	13,235.01	7,806.88	96.13	130.58	-90.00	-5,052.82	4,634.64	3,303.59	3,112.21	191.38	17.262		
12,000.00	7,806.95	13,335.01	7,806.88	97.77	131.66	-90.00	-5,152.82	4,635.72	3,304.07	3,109.38	194.69	16.971		
12,100.00	7,806.95	13,435.01	7,806.88	99.41	132.74	-90.00	-5,252.81	4,636.80	3,304.54	3,106.55	198.00	16.690		
12,200.00	7,806.95	13,535.01	7,806.88	101.06	133.85	-90.00	-5,352.80	4,637.87	3,305.02	3,103.70	201.32	16.417		
12,300.00	7,806.95	13,635.01	7,806.88	102.71	134.97	-90.00	-5,452.80	4,638.95	3,305.50	3,100.85	204.64	16.152		
12,400.00	7,806.95	13,735.01	7,806.88	104.37	136.10	-90.00	-5,552.79	4,640.03	3,305.97	3,097.99	207.98	15.896		
12,500.00	7,806.95	13,835.01	7,806.88	106.02	137.26	-90.00	-5,652.78	4,641.10	3,306.45	3,095.13	211.32	15.647		
12,600.00	7,806.95	13,935.01	7,806.88	107.69	138.42	-90.00	-5,752.78	4,642.18	3,306.92	3,092.25	214.67	15.405		
12,700.00	7,806.94	14,035.00	7,806.88	109.35	139.60	-90.00	-5,852.77	4,643.26	3,307.40	3,089.38	218.02	15.170		
12,800.00	7,806.94	14,135.00	7,806.88	111.02	140.80	-90.00	-5,952.76	4,644.33	3,307.87	3,086.49	221.38	14.942		
12,900.00	7,806.94	14,235.00	7,806.87	112.70	142.01	-90.00	-6,052.76	4,645.41	3,308.35	3,083.60	224.75	14.720		
13,000.00	7,806.94	14,335.00	7,806.87	114.37	143.23	-90.00	-6,152.75	4,646.49	3,308.82	3,080.70	228.12	14.505		
13,100.00	7,806.94	14,435.00	7,806.87	116.05	144.47	-90.00	-6,252.74	4,647.57	3,309.30	3,077.80	231.50	14.295		
13,200.00	7,806.94	14,535.00	7,806.87	117.74	145.72	-90.00	-6,352.74	4,648.64	3,309.77	3,074.90	234.88	14.091		
13,300.00	7,806.94	14,635.00	7,806.87	119.42	146.99	-90.00	-6,452.73	4,649.72	3,310.25	3,071.98	238.26	13.893		
13,400.00	7,806.94	14,735.00	7,806.87	121.11	148.26	-90.00	-6,552.72	4,650.80	3,310.72	3,069.07	241.66	13.700		
13,500.00	7,806.93	14,835.00	7,806.87	122.80	149.55	-90.00	-6,652.72	4,651.87	3,311.20	3,066.15	245.05	13.512		
13,600.00	7,806.93	14,935.00	7,806.87	124.49	150.85	-90.00	-6,752.71	4,652.95	3,311.68	3,063.22	248.45	13.329		
13,700.00	7,806.93	15,035.00	7,806.88	126.18	152.16	-90.00	-6,852.71	4,654.03	3,312.15	3,060.30	251.85	13.151		
13,800.00	7,806.93	15,135.00	7,806.88	127.88	153.48	-90.00	-6,952.70	4,655.10	3,312.63	3,057.36	255.26	12.977		
13,900.00	7,806.93	15,234.99	7,806.88	129.58	154.81	-90.00	-7,052.69	4,656.18	3,313.10	3,054.43	258.67	12.808		
14,000.00	7,806.93	15,334.99	7,806.88	131.28	156.16	-90.00	-7,152.69	4,657.26	3,313.58	3,051.49	262.09	12.643		
14,100.00	7,806.93	15,434.99	7,806.88	132.98	157.51	-90.00	-7,252.68	4,658.33	3,314.05	3,048.54	265.51	12.482		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	15,534.99	7,806.88	134.68	158.88	-90.00	-7,352.67	4,659.41	3,314.53	3,045.60	268.93	12.325		
14,300.00	7,806.92	15,634.99	7,806.88	136.39	160.25	-90.00	-7,452.67	4,660.49	3,315.00	3,042.65	272.35	12.172		
14,400.00	7,806.92	15,734.99	7,806.88	138.10	161.63	-90.00	-7,552.66	4,661.56	3,315.48	3,039.69	275.78	12.022		
14,500.00	7,806.92	15,834.99	7,806.88	139.81	163.03	-90.00	-7,652.65	4,662.64	3,315.95	3,036.74	279.21	11.876		
14,600.00	7,806.92	15,934.99	7,806.88	141.52	164.43	-90.00	-7,752.65	4,663.72	3,316.43	3,033.78	282.65	11.733		
14,700.00	7,806.92	16,034.99	7,806.89	143.23	165.84	-90.00	-7,852.64	4,664.79	3,316.90	3,030.82	286.08	11.594		
14,800.00	7,806.92	16,134.99	7,806.89	144.94	167.26	-90.00	-7,952.63	4,665.87	3,317.38	3,027.85	289.52	11.458		
14,900.00	7,806.92	16,234.99	7,806.89	146.66	168.68	-90.00	-8,052.63	4,666.95	3,317.85	3,024.89	292.96	11.325		
15,000.00	7,806.92	16,334.99	7,806.89	148.37	170.12	-90.00	-8,152.62	4,668.03	3,318.33	3,021.92	296.41	11.195		
15,100.00	7,806.91	16,434.99	7,806.89	150.09	171.56	-90.00	-8,252.61	4,669.10	3,318.80	3,018.95	299.86	11.068		
15,200.00	7,806.91	16,534.98	7,806.89	151.81	173.01	-90.00	-8,352.61	4,670.18	3,319.28	3,015.97	303.31	10.944		
15,300.00	7,806.91	16,634.98	7,806.90	153.53	174.47	-90.00	-8,452.60	4,671.26	3,319.75	3,013.00	306.76	10.822		
15,400.00	7,806.91	16,734.98	7,806.90	155.25	175.93	-90.00	-8,552.59	4,672.33	3,320.23	3,010.02	310.21	10.703		
15,500.00	7,806.91	16,834.98	7,806.90	156.97	177.40	-90.00	-8,652.59	4,673.41	3,320.70	3,007.04	313.67	10.587		
15,600.00	7,806.91	16,934.98	7,806.90	158.70	178.88	-90.00	-8,752.58	4,674.49	3,321.18	3,004.05	317.12	10.473		
15,700.00	7,806.91	17,034.98	7,806.91	160.42	180.36	-90.00	-8,852.57	4,675.56	3,321.65	3,001.07	320.58	10.361		
15,800.00	7,806.91	17,134.98	7,806.91	162.15	181.85	-90.00	-8,952.57	4,676.64	3,322.13	2,998.08	324.04	10.252		
15,900.00	7,806.90	17,234.98	7,806.91	163.88	183.35	-90.00	-9,052.56	4,677.72	3,322.60	2,995.10	327.51	10.145		
16,000.00	7,806.90	17,334.98	7,806.92	165.60	184.85	-90.00	-9,152.55	4,678.79	3,323.08	2,992.11	330.97	10.040		
16,100.00	7,806.90	17,434.98	7,806.92	167.33	186.36	-90.00	-9,252.55	4,679.87	3,323.55	2,989.11	334.44	9.938		
16,200.00	7,806.90	17,534.98	7,806.92	169.06	187.87	-90.00	-9,352.54	4,680.95	3,324.03	2,986.12	337.91	9.837		
16,300.00	7,806.90	17,634.98	7,806.92	170.79	189.39	-90.00	-9,452.53	4,682.02	3,324.50	2,983.13	341.38	9.738		
16,400.00	7,806.90	17,734.97	7,806.93	172.52	190.92	-90.00	-9,552.53	4,683.10	3,324.98	2,980.13	344.85	9.642		
16,500.00	7,806.90	17,834.97	7,806.93	174.26	192.45	-90.00	-9,652.52	4,684.18	3,325.45	2,977.13	348.32	9.547		
16,600.00	7,806.89	17,934.97	7,806.93	175.99	193.98	-90.00	-9,752.51	4,685.25	3,325.93	2,974.13	351.80	9.454		
16,700.00	7,806.89	18,034.97	7,806.94	177.72	195.52	-90.00	-9,852.51	4,686.33	3,326.40	2,971.13	355.27	9.363		
16,800.00	7,806.89	18,134.97	7,806.94	179.46	197.07	-90.00	-9,952.50	4,687.40	3,326.88	2,968.13	358.75	9.273		
16,900.00	7,806.89	18,234.97	7,806.95	181.19	198.62	-90.00	-10,052.49	4,688.48	3,327.35	2,965.12	362.23	9.186		
17,000.00	7,806.89	18,334.97	7,806.95	182.93	200.17	-90.00	-10,152.49	4,689.56	3,327.83	2,962.12	365.71	9.100		
17,100.00	7,806.89	18,434.97	7,806.95	184.67	201.73	-90.00	-10,252.48	4,690.63	3,328.30	2,959.11	369.19	9.015		
17,200.00	7,806.89	18,534.97	7,806.96	186.40	203.29	-90.00	-10,352.47	4,691.71	3,328.78	2,956.10	372.67	8.932		
17,300.00	7,806.89	18,634.97	7,806.96	188.14	204.86	-90.00	-10,452.47	4,692.79	3,329.25	2,953.09	376.16	8.851		
17,400.00	7,806.88	18,734.97	7,806.97	189.88	206.43	-90.00	-10,552.46	4,693.86	3,329.73	2,950.08	379.64	8.771		
17,500.00	7,806.88	18,834.97	7,806.97	191.62	208.00	-90.00	-10,652.45	4,694.94	3,330.20	2,947.07	383.13	8.692		
17,600.00	7,806.88	18,934.97	7,806.98	193.36	209.58	-90.00	-10,752.45	4,696.02	3,330.68	2,944.06	386.62	8.615		
17,700.00	7,806.88	19,034.96	7,806.98	195.10	211.16	-90.00	-10,852.44	4,697.09	3,331.15	2,941.05	390.11	8.539		
17,800.00	7,806.88	19,134.96	7,806.99	196.84	212.75	-90.00	-10,952.43	4,698.17	3,331.63	2,938.03	393.60	8.465		
17,900.00	7,806.88	19,234.96	7,806.99	198.58	214.34	-90.00	-11,052.43	4,699.25	3,332.10	2,935.02	397.09	8.391		
18,000.00	7,806.88	19,334.96	7,807.00	200.33	215.93	-90.00	-11,152.42	4,700.32	3,332.58	2,932.00	400.58	8.319		
18,027.46	7,807.00	19,362.42	7,807.00	200.80	216.37	-90.00	-11,179.88	4,700.62	3,332.97	2,931.44	401.54	8.301 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.10	18.00	18.00					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.10	18.00	18.00	17.73	0.27	66.934		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.10	18.00	18.00	17.01	0.99	18.255		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.10	18.00	18.00	16.29	1.70	10.569		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.10	18.00	18.00	15.58	2.42	7.437		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.10	18.00	18.00	14.86	3.14	5.737		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.10	18.00	18.00	14.14	3.85	4.670		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.10	18.00	18.00	13.42	4.57	3.937		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.10	18.00	18.00	12.71	5.29	3.403		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.10	18.00	18.00	11.99	6.00	2.997 CC, ES		
1,000.00	1,000.00	999.43	999.41	3.36	3.35	92.98	-1.01	19.46	19.50	12.79	6.70	2.908		
1,100.00	1,099.98	1,098.72	1,098.56	3.71	3.68	-30.13	-3.74	23.85	22.66	15.28	7.37	3.073		
1,200.00	1,199.84	1,197.88	1,197.35	4.04	4.03	-27.83	-8.27	31.13	26.00	17.98	8.03	3.239		
1,300.00	1,299.45	1,296.93	1,295.66	4.39	4.38	-26.63	-14.60	41.31	29.48	20.79	8.69	3.394		
1,400.00	1,398.70	1,395.86	1,393.39	4.74	4.76	-26.19	-22.71	54.35	33.05	23.71	9.34	3.537		
1,500.00	1,497.47	1,494.67	1,490.41	5.12	5.15	-26.28	-32.58	70.22	36.72	26.71	10.01	3.668		
1,600.00	1,595.62	1,593.37	1,586.62	5.51	5.57	-26.77	-44.20	88.90	40.47	29.78	10.68	3.788		
1,700.00	1,693.06	1,691.94	1,681.89	5.94	6.03	-27.55	-57.54	110.36	44.30	32.93	11.37	3.895		
1,800.00	1,789.64	1,790.40	1,776.13	6.39	6.53	-28.54	-72.59	134.56	48.23	36.14	12.09	3.990		
1,863.26	1,850.25	1,853.09	1,835.65	6.70	6.86	-29.32	-82.98	151.27	50.63	38.05	12.58	4.025		
1,900.00	1,885.34	1,889.80	1,870.48	6.89	7.06	-29.93	-89.12	161.15	51.78	38.89	12.89	4.017		
2,000.00	1,980.83	1,989.74	1,965.26	7.41	7.63	-31.46	-105.85	188.05	54.94	41.18	13.76	3.992		
2,100.00	2,076.33	2,089.68	2,060.05	7.95	8.21	-32.81	-122.57	214.94	58.13	43.47	14.66	3.965		
2,200.00	2,171.82	2,189.62	2,154.84	8.50	8.81	-34.03	-139.30	241.84	61.35	45.77	15.59	3.936		
2,300.00	2,267.32	2,289.56	2,249.63	9.07	9.41	-35.12	-156.02	268.73	64.60	48.06	16.54	3.906		
2,400.00	2,362.81	2,389.50	2,344.42	9.64	10.03	-36.11	-172.75	295.63	67.87	50.36	17.51	3.876		
2,500.00	2,458.30	2,489.44	2,439.21	10.22	10.65	-37.01	-189.47	322.52	71.16	52.66	18.50	3.846		
2,600.00	2,553.80	2,589.38	2,534.00	10.81	11.28	-37.83	-206.20	349.42	74.46	54.95	19.51	3.817		
2,700.00	2,649.29	2,689.32	2,628.79	11.41	11.92	-38.58	-222.92	376.31	77.78	57.25	20.53	3.788		
2,800.00	2,744.79	2,789.27	2,723.58	12.01	12.56	-39.27	-239.65	403.21	81.11	59.54	21.57	3.761		
2,900.00	2,840.28	2,889.21	2,818.37	12.61	13.20	-39.90	-256.37	430.10	84.45	61.84	22.61	3.735		
3,000.00	2,935.77	2,989.15	2,913.15	13.22	13.84	-40.49	-273.10	456.99	87.80	64.13	23.67	3.710		
3,100.00	3,031.27	3,089.09	3,007.94	13.83	14.49	-41.03	-289.82	483.89	91.16	66.42	24.73	3.686		
3,200.00	3,126.76	3,189.03	3,102.73	14.44	15.14	-41.53	-306.55	510.78	94.52	68.72	25.81	3.663		
3,300.00	3,222.26	3,288.97	3,197.52	15.06	15.80	-42.00	-323.27	537.68	97.89	71.01	26.89	3.641		
3,400.00	3,317.75	3,388.91	3,292.31	15.68	16.45	-42.44	-340.00	564.57	101.27	73.30	27.97	3.620		
3,500.00	3,413.25	3,488.85	3,387.10	16.30	17.11	-42.85	-356.72	591.47	104.66	75.59	29.07	3.600		
3,600.00	3,508.74	3,588.79	3,481.89	16.92	17.77	-43.23	-373.44	618.36	108.05	77.88	30.17	3.582		
3,700.00	3,604.23	3,688.73	3,576.68	17.54	18.43	-43.59	-390.17	645.26	111.44	80.17	31.27	3.564		
3,800.00	3,699.73	3,788.67	3,671.47	18.17	19.09	-43.93	-406.89	672.15	114.84	82.46	32.38	3.547		
3,900.00	3,795.22	3,888.61	3,766.26	18.79	19.75	-44.25	-423.62	699.05	118.24	84.75	33.49	3.531		
4,000.00	3,890.72	3,988.55	3,861.04	19.42	20.42	-44.55	-440.34	725.94	121.64	87.04	34.60	3.515		
4,100.00	3,986.21	4,088.49	3,955.83	20.05	21.08	-44.84	-457.07	752.84	125.05	89.33	35.72	3.501		
4,200.00	4,081.70	4,188.43	4,050.62	20.67	21.75	-45.11	-473.79	779.73	128.46	91.62	36.84	3.487		
4,300.00	4,177.20	4,288.37	4,145.41	21.30	22.41	-45.36	-490.52	806.63	131.88	93.91	37.97	3.473		
4,400.00	4,272.69	4,388.31	4,240.20	21.93	23.08	-45.61	-507.24	833.52	135.29	96.20	39.10	3.461		
4,500.00	4,368.19	4,488.25	4,334.99	22.56	23.75	-45.84	-523.97	860.42	138.71	98.49	40.22	3.448		
4,600.00	4,463.68	4,588.19	4,429.78	23.19	24.41	-46.06	-540.69	887.31	142.13	100.78	41.36	3.437		
4,700.00	4,559.17	4,688.13	4,524.57	23.83	25.08	-46.27	-557.42	914.21	145.56	103.07	42.49	3.426		
4,800.00	4,654.67	4,788.07	4,619.36	24.46	25.75	-46.47	-574.14	941.10	148.98	105.36	43.62	3.415		
4,900.00	4,750.16	4,888.01	4,714.15	25.09	26.42	-46.66	-590.87	968.00	152.41	107.65	44.76	3.405		
5,000.00	4,845.66	4,987.95	4,808.94	25.72	27.09	-46.84	-607.59	994.89	155.84	109.94	45.90	3.395		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,087.89	4,903.72	26.36	27.76	-47.01	-624.32	1,021.79	159.27	112.22	47.04	3.386		
5,200.00	5,036.65	5,187.83	4,998.51	26.99	28.43	-47.18	-641.04	1,048.68	162.70	114.51	48.18	3.377		
5,300.00	5,132.14	5,287.77	5,093.30	27.63	29.10	-47.34	-657.77	1,075.58	166.13	116.80	49.33	3.368		
5,400.00	5,227.63	5,387.71	5,188.09	28.26	29.77	-47.50	-674.49	1,102.47	169.56	119.09	50.47	3.360		
5,500.00	5,323.13	5,487.65	5,282.88	28.90	30.44	-47.64	-691.21	1,129.37	173.00	121.38	51.62	3.352		
5,600.00	5,418.62	5,587.59	5,377.67	29.53	31.11	-47.79	-707.94	1,156.26	176.43	123.67	52.76	3.344		
5,700.00	5,514.12	5,687.53	5,472.46	30.17	31.78	-47.92	-724.66	1,183.16	179.87	125.96	53.91	3.337		
5,800.00	5,609.61	5,787.47	5,567.25	30.80	32.46	-48.05	-741.39	1,210.05	183.31	128.25	55.06	3.329		
5,900.00	5,705.10	5,887.41	5,662.04	31.44	33.13	-48.18	-758.11	1,236.95	186.75	130.54	56.21	3.322		
6,000.00	5,800.60	5,987.35	5,756.83	32.08	33.80	-48.30	-774.84	1,263.84	190.19	132.83	57.36	3.316		
6,100.00	5,896.09	6,087.29	5,851.61	32.71	34.47	-48.42	-791.56	1,290.74	193.63	135.12	58.51	3.309		
6,200.00	5,991.59	6,187.23	5,946.40	33.35	35.15	-48.54	-808.29	1,317.63	197.07	137.41	59.66	3.303		
6,300.00	6,087.08	6,287.17	6,041.19	33.99	35.82	-48.64	-825.01	1,344.53	200.51	139.70	60.81	3.297		
6,400.00	6,182.57	6,387.11	6,135.98	34.62	36.49	-48.75	-841.74	1,371.42	203.95	141.99	61.97	3.291		
6,499.99	6,278.06	6,487.03	6,230.76	35.26	37.16	-48.85	-858.46	1,398.31	207.40	144.28	63.12	3.286		
6,505.95	6,283.75	6,492.99	6,236.41	35.30	37.20	-48.86	-859.46	1,399.91	207.60	144.41	63.19	3.285		
6,600.00	6,374.00	6,586.94	6,325.51	35.88	37.84	-48.70	-875.18	1,425.20	211.86	147.72	64.14	3.303		
6,700.00	6,470.87	6,686.65	6,420.08	36.44	38.51	-47.91	-891.86	1,452.03	218.64	153.79	64.85	3.372		
6,800.00	6,568.53	6,787.87	6,516.14	36.96	39.19	-46.56	-908.72	1,479.14	227.74	162.43	65.31	3.487		
6,900.00	6,666.89	6,893.74	6,617.48	37.43	39.85	-45.09	-924.89	1,505.13	237.33	171.62	65.72	3.611		
7,000.00	6,765.82	7,000.09	6,720.35	37.85	40.47	-43.71	-939.12	1,528.02	246.70	180.66	66.05	3.735		
7,100.00	6,865.19	7,106.90	6,824.60	38.22	41.02	-42.40	-951.38	1,547.74	255.84	189.53	66.30	3.859		
7,200.00	6,964.89	7,214.17	6,930.10	38.55	41.51	-41.16	-961.62	1,564.20	264.71	198.23	66.48	3.982		
7,300.00	7,064.80	7,321.90	7,036.71	38.83	41.95	-39.97	-969.79	1,577.34	273.29	206.72	66.57	4.105		
7,369.20	7,134.00	7,396.71	7,111.05	39.00	42.23	87.83	-974.22	1,584.47	279.06	212.47	66.59	4.191		
7,400.00	7,164.80	7,430.09	7,144.28	39.06	42.34	88.19	-975.87	1,587.11	281.45	214.87	66.59	4.227		
7,469.20	7,234.00	7,505.33	7,219.31	39.22	42.58	88.81	-978.82	1,591.87	285.76	219.12	66.63	4.289		
7,500.00	7,264.78	7,538.90	7,252.83	39.29	42.67	-90.68	-979.81	1,593.45	287.20	220.45	66.75	4.303		
7,550.00	7,314.53	7,593.28	7,307.16	39.44	42.82	-91.31	-980.96	1,595.30	288.97	221.66	67.30	4.294		
7,600.00	7,363.66	7,646.98	7,360.84	39.62	42.95	-93.01	-981.56	1,596.27	290.21	221.92	68.29	4.250		
7,650.00	7,411.81	7,702.06	7,411.81	39.82	43.07	-95.55	-981.67	1,596.45	291.42	221.65	69.77	4.177		
7,700.00	7,458.61	7,744.74	7,458.61	40.06	43.16	-98.52	-981.67	1,596.45	293.72	222.07	71.66	4.099		
7,750.00	7,503.69	7,791.01	7,504.88	40.32	43.26	-101.91	-981.76	1,596.45	297.94	224.11	73.82	4.036		
7,800.00	7,546.72	7,842.80	7,556.54	40.60	43.39	-105.70	-984.99	1,596.47	303.98	228.17	75.81	4.010		
7,850.00	7,587.38	7,897.22	7,610.30	40.92	43.56	-109.38	-993.39	1,596.52	311.48	234.02	77.45	4.021		
7,900.00	7,625.34	7,954.65	7,665.87	41.25	43.77	-112.90	-1,007.74	1,596.60	320.18	241.55	78.63	4.072		
7,950.00	7,660.33	8,015.46	7,722.85	41.61	44.03	-116.24	-1,028.92	1,596.73	329.79	250.56	79.22	4.163		
8,000.00	7,692.07	8,080.03	7,780.53	42.00	44.34	-119.37	-1,057.88	1,596.90	339.93	260.81	79.12	4.296		
8,050.00	7,720.33	8,148.75	7,837.91	42.40	44.71	-122.27	-1,095.60	1,597.13	350.20	271.97	78.23	4.477		
8,100.00	7,744.89	8,221.88	7,893.55	42.83	45.16	-124.88	-1,142.98	1,597.41	360.17	283.66	76.51	4.708		
8,150.00	7,765.56	8,299.56	7,945.53	43.27	45.68	-127.17	-1,200.62	1,597.75	369.37	295.42	73.95	4.995		
8,200.00	7,782.18	8,381.67	7,991.48	43.74	46.28	-129.07	-1,268.59	1,598.16	377.34	306.69	70.66	5.341		
8,250.00	7,794.63	8,467.78	8,028.71	44.22	46.97	-130.54	-1,346.15	1,598.62	383.66	316.83	66.83	5.741		
8,300.00	7,802.82	8,557.05	8,054.60	44.71	47.73	-131.52	-1,431.49	1,599.13	387.95	325.12	62.83	6.175		
8,350.00	7,806.68	8,648.29	8,067.06	45.21	48.55	-131.97	-1,521.77	1,599.67	389.94	330.80	59.14	6.593		
8,369.28	7,807.00	8,683.69	8,067.99	45.40	48.88	-132.00	-1,557.15	1,599.89	390.07	332.15	57.92	6.735		
8,371.30	7,807.00	8,687.40	8,067.97	45.42	48.91	-131.99	-1,560.86	1,599.91	390.06	332.26	57.80	6.748		
8,400.00	7,807.00	8,713.28	8,068.00	45.72	49.15	-132.00	-1,586.74	1,600.06	390.07	331.53	58.54	6.664		
8,500.00	7,807.00	8,813.28	8,068.00	46.77	50.11	-132.00	-1,686.74	1,600.66	390.07	329.81	60.26	6.473		
8,600.00	7,807.00	8,913.28	8,067.99	47.86	51.12	-132.00	-1,786.74	1,601.26	390.06	328.00	62.06	6.285		
8,700.00	7,807.00	9,013.28	8,067.99	48.99	52.17	-132.00	-1,886.74	1,601.85	390.06	326.12	63.94	6.100		
8,800.00	7,806.99	9,113.28	8,067.99	50.16	53.25	-132.00	-1,986.73	1,602.45	390.05	324.17	65.89	5.920		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	9,213.28	8,067.99	51.37	54.37	-132.00	-2,086.73	1,603.05	390.05	322.15	67.90	5.745		
9,000.00	7,806.99	9,313.28	8,067.99	52.60	55.52	-132.00	-2,186.73	1,603.65	390.05	320.08	69.96	5.575		
9,100.00	7,806.99	9,413.28	8,067.98	53.87	56.71	-132.00	-2,286.73	1,604.25	390.04	317.96	72.08	5.411		
9,200.00	7,806.99	9,513.28	8,067.98	55.17	57.93	-132.00	-2,386.73	1,604.84	390.04	315.79	74.25	5.253		
9,300.00	7,806.99	9,613.28	8,067.98	56.49	59.18	-132.00	-2,486.73	1,605.44	390.04	313.58	76.46	5.101		
9,400.00	7,806.99	9,713.28	8,067.98	57.83	60.45	-132.00	-2,586.72	1,606.04	390.03	311.32	78.71	4.955		
9,500.00	7,806.99	9,813.28	8,067.97	59.20	61.75	-132.00	-2,686.72	1,606.64	390.03	309.03	81.00	4.815		
9,600.00	7,806.98	9,913.28	8,067.97	60.59	63.07	-132.00	-2,786.72	1,607.23	390.03	306.71	83.32	4.681		
9,700.00	7,806.98	10,013.28	8,067.97	62.00	64.41	-132.00	-2,886.72	1,607.83	390.02	304.35	85.67	4.553		
9,800.00	7,806.98	10,113.28	8,067.97	63.43	65.78	-132.00	-2,986.72	1,608.43	390.02	301.97	88.05	4.429		
9,900.00	7,806.98	10,213.28	8,067.97	64.87	67.16	-132.00	-3,086.72	1,609.03	390.01	299.56	90.46	4.312		
10,000.00	7,806.98	10,313.28	8,067.96	66.34	68.56	-132.00	-3,186.71	1,609.62	390.01	297.12	92.89	4.199		
10,100.00	7,806.98	10,413.28	8,067.96	67.81	69.98	-132.00	-3,286.71	1,610.22	390.01	294.67	95.34	4.091		
10,200.00	7,806.98	10,513.28	8,067.96	69.30	71.42	-132.00	-3,386.71	1,610.82	390.00	292.19	97.81	3.987		
10,300.00	7,806.98	10,613.28	8,067.96	70.81	72.87	-132.00	-3,486.71	1,611.42	390.00	289.69	100.31	3.888		
10,400.00	7,806.97	10,713.28	8,067.95	72.32	74.33	-132.00	-3,586.71	1,612.01	390.00	287.18	102.82	3.793		
10,500.00	7,806.97	10,813.28	8,067.95	73.85	75.81	-132.00	-3,686.70	1,612.61	389.99	284.65	105.34	3.702		
10,600.00	7,806.97	10,913.28	8,067.95	75.39	77.30	-132.00	-3,786.70	1,613.21	389.99	282.10	107.88	3.615		
10,700.00	7,806.97	11,013.28	8,067.95	76.94	78.80	-132.01	-3,886.70	1,613.81	389.99	279.55	110.44	3.531		
10,800.00	7,806.97	11,113.28	8,067.94	78.49	80.32	-132.01	-3,986.70	1,614.40	389.98	276.97	113.01	3.451		
10,900.00	7,806.97	11,213.28	8,067.94	80.06	81.84	-132.01	-4,086.70	1,615.00	389.98	274.39	115.59	3.374		
11,000.00	7,806.97	11,313.28	8,067.94	81.64	83.38	-132.01	-4,186.70	1,615.60	389.97	271.79	118.18	3.300		
11,100.00	7,806.97	11,413.28	8,067.94	83.22	84.92	-132.01	-4,286.69	1,616.20	389.97	269.18	120.79	3.229		
11,200.00	7,806.96	11,513.28	8,067.94	84.81	86.48	-132.01	-4,386.69	1,616.80	389.97	266.56	123.40	3.160		
11,300.00	7,806.96	11,613.28	8,067.93	86.41	88.04	-132.01	-4,486.69	1,617.39	389.96	263.94	126.03	3.094		
11,400.00	7,806.96	11,713.28	8,067.93	88.01	89.61	-132.01	-4,586.69	1,617.99	389.96	261.30	128.66	3.031		
11,500.00	7,806.96	11,813.28	8,067.93	89.63	91.18	-132.01	-4,686.69	1,618.59	389.96	258.66	131.30	2.970		
11,600.00	7,806.96	11,913.28	8,067.93	91.24	92.77	-132.01	-4,786.68	1,619.19	389.95	256.00	133.95	2.911		
11,700.00	7,806.96	12,013.28	8,067.92	92.87	94.36	-132.01	-4,886.68	1,619.78	389.95	253.34	136.61	2.855		
11,800.00	7,806.96	12,113.28	8,067.92	94.49	95.96	-132.01	-4,986.68	1,620.38	389.95	250.68	139.27	2.800		
11,900.00	7,806.95	12,213.28	8,067.92	96.13	97.56	-132.01	-5,086.68	1,620.98	389.94	248.00	141.94	2.747		
12,000.00	7,806.95	12,313.28	8,067.92	97.77	99.17	-132.01	-5,186.68	1,621.58	389.94	245.32	144.62	2.696		
12,100.00	7,806.95	12,413.28	8,067.91	99.41	100.79	-132.01	-5,286.68	1,622.17	389.93	242.64	147.30	2.647		
12,200.00	7,806.95	12,513.28	8,067.91	101.06	102.41	-132.01	-5,386.67	1,622.77	389.93	239.95	149.98	2.600		
12,300.00	7,806.95	12,613.28	8,067.91	102.71	104.03	-132.01	-5,486.67	1,623.37	389.93	237.25	152.68	2.554		
12,400.00	7,806.95	12,713.28	8,067.91	104.37	105.66	-132.01	-5,586.67	1,623.97	389.92	234.55	155.38	2.510		
12,500.00	7,806.95	12,813.28	8,067.91	106.02	107.30	-132.01	-5,686.67	1,624.56	389.92	231.84	158.08	2.467		
12,600.00	7,806.95	12,913.28	8,067.90	107.69	108.94	-132.01	-5,786.67	1,625.16	389.92	229.13	160.79	2.425		
12,700.00	7,806.94	13,013.28	8,067.90	109.35	110.58	-132.01	-5,886.67	1,625.76	389.91	226.42	163.50	2.385		
12,800.00	7,806.94	13,113.28	8,067.90	111.02	112.23	-132.01	-5,986.66	1,626.36	389.91	223.70	166.21	2.346		
12,900.00	7,806.94	13,213.28	8,067.90	112.70	113.88	-132.01	-6,086.66	1,626.95	389.90	220.97	168.93	2.308		
13,000.00	7,806.94	13,313.28	8,067.89	114.37	115.54	-132.01	-6,186.66	1,627.55	389.90	218.25	171.66	2.271		
13,100.00	7,806.94	13,413.28	8,067.89	116.05	117.20	-132.01	-6,286.66	1,628.15	389.90	215.52	174.38	2.236		
13,200.00	7,806.94	13,513.28	8,067.89	117.74	118.86	-132.01	-6,386.66	1,628.75	389.89	212.78	177.11	2.201		
13,300.00	7,806.94	13,613.28	8,067.89	119.42	120.52	-132.01	-6,486.65	1,629.35	389.89	210.05	179.85	2.168		
13,400.00	7,806.94	13,713.28	8,067.89	121.11	122.19	-132.01	-6,586.65	1,629.94	389.89	207.31	182.58	2.135		
13,500.00	7,806.93	13,813.28	8,067.88	122.80	123.86	-132.01	-6,686.65	1,630.54	389.88	204.56	185.32	2.104		
13,600.00	7,806.93	13,913.28	8,067.88	124.49	125.54	-132.01	-6,786.65	1,631.14	389.88	201.82	188.06	2.073		
13,700.00	7,806.93	14,013.28	8,067.88	126.18	127.21	-132.01	-6,886.65	1,631.74	389.88	199.07	190.81	2.043		
13,800.00	7,806.93	14,113.28	8,067.88	127.88	128.89	-132.01	-6,986.65	1,632.33	389.87	196.32	193.55	2.014		
13,900.00	7,806.93	14,213.28	8,067.87	129.58	130.58	-132.01	-7,086.64	1,632.93	389.87	193.56	196.30	1.986		
14,000.00	7,806.93	14,313.28	8,067.87	131.28	132.26	-132.01	-7,186.64	1,633.53	389.86	190.81	199.06	1.959		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	14,413.28	8,067.87	132.98	133.95	-132.01	-7,286.64	1,634.13	389.86	188.05	201.81	1.932		
14,200.00	7,806.93	14,513.28	8,067.87	134.68	135.64	-132.01	-7,386.64	1,634.72	389.86	185.29	204.57	1.906		
14,300.00	7,806.92	14,613.28	8,067.86	136.39	137.33	-132.02	-7,486.64	1,635.32	389.85	182.53	207.32	1.880		
14,400.00	7,806.92	14,713.28	8,067.86	138.10	139.02	-132.02	-7,586.63	1,635.92	389.85	179.76	210.09	1.856		
14,500.00	7,806.92	14,813.28	8,067.86	139.81	140.71	-132.02	-7,686.63	1,636.52	389.85	177.00	212.85	1.832		
14,600.00	7,806.92	14,913.28	8,067.86	141.52	142.41	-132.02	-7,786.63	1,637.11	389.84	174.23	215.61	1.808		
14,700.00	7,806.92	15,013.28	8,067.86	143.23	144.11	-132.02	-7,886.63	1,637.71	389.84	171.46	218.38	1.785		
14,800.00	7,806.92	15,113.28	8,067.85	144.94	145.81	-132.02	-7,986.63	1,638.31	389.84	168.69	221.15	1.763		
14,900.00	7,806.92	15,213.28	8,067.85	146.66	147.51	-132.02	-8,086.63	1,638.91	389.83	165.92	223.91	1.741		
15,000.00	7,806.92	15,313.28	8,067.85	148.37	149.22	-132.02	-8,186.62	1,639.51	389.83	163.14	226.69	1.720		
15,100.00	7,806.91	15,413.28	8,067.85	150.09	150.92	-132.02	-8,286.62	1,640.10	389.82	160.37	229.46	1.699		
15,200.00	7,806.91	15,513.28	8,067.84	151.81	152.63	-132.02	-8,386.62	1,640.70	389.82	157.59	232.23	1.679		
15,300.00	7,806.91	15,613.28	8,067.84	153.53	154.34	-132.02	-8,486.62	1,641.30	389.82	154.81	235.01	1.659		
15,400.00	7,806.91	15,713.28	8,067.84	155.25	156.05	-132.02	-8,586.62	1,641.90	389.81	152.03	237.78	1.639		
15,500.00	7,806.91	15,813.28	8,067.84	156.97	157.76	-132.02	-8,686.62	1,642.49	389.81	149.25	240.56	1.620		
15,600.00	7,806.91	15,913.28	8,067.83	158.70	159.47	-132.02	-8,786.61	1,643.09	389.81	146.47	243.34	1.602		
15,700.00	7,806.91	16,013.28	8,067.83	160.42	161.19	-132.02	-8,886.61	1,643.69	389.80	143.68	246.12	1.584		
15,800.00	7,806.91	16,113.28	8,067.83	162.15	162.90	-132.02	-8,986.61	1,644.29	389.80	140.90	248.90	1.566		
15,900.00	7,806.90	16,213.28	8,067.83	163.88	164.62	-132.02	-9,086.61	1,644.88	389.80	138.11	251.69	1.549		
16,000.00	7,806.90	16,313.28	8,067.83	165.60	166.34	-132.02	-9,186.61	1,645.48	389.79	135.32	254.47	1.532		
16,100.00	7,806.90	16,413.28	8,067.82	167.33	168.06	-132.02	-9,286.60	1,646.08	389.79	132.53	257.25	1.515		
16,200.00	7,806.90	16,513.28	8,067.82	169.06	169.78	-132.02	-9,386.60	1,646.68	389.78	129.74	260.04	1.499 Level 3		
16,300.00	7,806.90	16,613.28	8,067.82	170.79	171.50	-132.02	-9,486.60	1,647.27	389.78	126.95	262.83	1.483 Level 3		
16,400.00	7,806.90	16,713.28	8,067.82	172.52	173.22	-132.02	-9,586.60	1,647.87	389.78	124.16	265.62	1.467 Level 3		
16,500.00	7,806.90	16,813.28	8,067.81	174.26	174.94	-132.02	-9,686.60	1,648.47	389.77	121.37	268.40	1.452 Level 3		
16,600.00	7,806.89	16,913.28	8,067.81	175.99	176.67	-132.02	-9,786.60	1,649.07	389.77	118.58	271.19	1.437 Level 3		
16,700.00	7,806.89	17,013.28	8,067.81	177.72	178.39	-132.02	-9,886.59	1,649.66	389.77	115.78	273.98	1.423 Level 3		
16,800.00	7,806.89	17,113.28	8,067.81	179.46	180.12	-132.02	-9,986.59	1,650.26	389.76	112.99	276.78	1.408 Level 3		
16,900.00	7,806.89	17,213.28	8,067.80	181.19	181.85	-132.02	-10,086.59	1,650.86	389.76	110.19	279.57	1.394 Level 3		
17,000.00	7,806.89	17,313.28	8,067.80	182.93	183.57	-132.02	-10,186.59	1,651.46	389.76	107.39	282.36	1.380 Level 3		
17,100.00	7,806.89	17,413.28	8,067.80	184.67	185.30	-132.02	-10,286.58	1,652.06	389.75	104.60	285.15	1.367 Level 3		
17,200.00	7,806.89	17,513.28	8,067.80	186.40	187.03	-132.02	-10,386.58	1,652.65	389.75	101.80	287.95	1.354 Level 3		
17,300.00	7,806.89	17,613.28	8,067.80	188.14	188.76	-132.02	-10,486.58	1,653.25	389.74	99.00	290.74	1.341 Level 3		
17,400.00	7,806.88	17,713.28	8,067.79	189.88	190.49	-132.02	-10,586.58	1,653.85	389.74	96.20	293.54	1.328 Level 3		
17,500.00	7,806.88	17,813.28	8,067.79	191.62	192.23	-132.02	-10,686.58	1,654.45	389.74	93.40	296.34	1.315 Level 3		
17,600.00	7,806.88	17,913.28	8,067.79	193.36	193.96	-132.02	-10,786.58	1,655.04	389.73	90.60	299.14	1.303 Level 3		
17,700.00	7,806.88	18,013.28	8,067.79	195.10	195.69	-132.02	-10,886.58	1,655.64	389.73	87.80	301.93	1.291 Level 3		
17,800.00	7,806.88	18,113.28	8,067.78	196.84	197.43	-132.03	-10,986.57	1,656.24	389.73	84.99	304.73	1.279 Level 3		
17,900.00	7,806.88	18,213.28	8,067.78	198.58	199.16	-132.03	-11,086.57	1,656.84	389.72	82.19	307.53	1.267 Level 3		
17,985.38	7,806.88	20,076.26	8,067.76	200.07	231.54	-132.03	-11,169.00	1,657.30	389.70	54.55	335.15	1.163 Level 2, SF		
18,000.00	7,806.88	18,310.33	8,067.83	200.33	200.85	-132.03	-11,183.62	1,657.47	389.81	79.16	310.65	1.255 Level 3		
18,027.46	7,807.00	18,337.79	8,067.97	200.80	201.32	-131.99	-11,211.08	1,657.79	390.13	78.56	311.57	1.252 Level 3		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	90.32	-0.20	35.99	35.99					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.20	35.99	35.99	35.72	0.27	133.868		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.20	35.99	35.99	35.01	0.99	36.509		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.20	35.99	35.99	34.29	1.70	21.137		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.20	35.99	35.99	33.57	2.42	14.874		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.20	35.99	35.99	32.85	3.14	11.474		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.20	35.99	35.99	32.14	3.85	9.340		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.20	35.99	35.99	31.42	4.57	7.875		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.20	35.99	35.99	30.70	5.29	6.807 CC, ES		
900.00	900.00	898.86	898.84	3.00	2.99	91.52	-1.00	37.50	37.53	31.54	5.99	6.269		
1,000.00	1,000.00	997.48	997.33	3.36	3.32	94.60	-3.38	42.01	42.23	35.55	6.67	6.329		
1,100.00	1,099.98	1,095.80	1,095.27	3.71	3.66	-29.48	-7.33	49.48	48.72	41.38	7.34	6.640		
1,200.00	1,199.84	1,193.87	1,192.64	4.04	4.02	-27.79	-12.84	59.89	55.47	47.48	7.99	6.944		
1,300.00	1,299.45	1,291.72	1,289.31	4.39	4.39	-26.93	-19.88	73.21	62.39	53.75	8.64	7.222		
1,400.00	1,398.70	1,389.33	1,385.18	4.74	4.79	-26.67	-28.43	89.39	69.46	60.16	9.29	7.473		
1,500.00	1,497.47	1,486.71	1,480.15	5.12	5.21	-26.84	-38.48	108.40	76.65	66.69	9.95	7.701		
1,600.00	1,595.62	1,583.85	1,574.10	5.51	5.67	-27.32	-50.01	130.20	83.96	73.33	10.62	7.903		
1,700.00	1,693.06	1,680.76	1,666.95	5.94	6.16	-28.04	-62.98	154.74	91.39	80.08	11.31	8.080		
1,800.00	1,789.64	1,777.44	1,758.58	6.39	6.69	-28.93	-77.38	181.98	98.95	86.93	12.02	8.233		
1,863.26	1,850.25	1,838.47	1,815.88	6.70	7.06	-29.57	-87.21	200.57	103.81	91.33	12.48	8.315		
1,900.00	1,885.34	1,873.87	1,848.90	6.89	7.28	-29.93	-93.18	211.85	106.86	94.10	12.76	8.376		
2,000.00	1,980.83	1,972.83	1,940.79	7.41	7.92	-30.61	-110.34	244.32	116.25	102.65	13.60	8.545		
2,100.00	2,076.33	2,072.37	2,033.20	7.95	8.58	-31.19	-127.63	277.02	125.70	111.21	14.49	8.673		
2,200.00	2,171.82	2,171.92	2,125.62	8.50	9.27	-31.69	-144.92	309.72	135.16	119.76	15.40	8.776		
2,300.00	2,267.32	2,271.46	2,218.04	9.07	9.96	-32.12	-162.21	342.42	144.63	128.31	16.33	8.859		
2,400.00	2,362.81	2,371.01	2,310.46	9.64	10.67	-32.50	-179.50	375.13	154.11	136.85	17.27	8.925		
2,500.00	2,458.30	2,470.55	2,402.87	10.22	11.39	-32.84	-196.79	407.83	163.60	145.38	18.22	8.979		
2,600.00	2,553.80	2,570.10	2,495.29	10.81	12.12	-33.14	-214.08	440.53	173.09	153.90	19.18	9.022		
2,700.00	2,649.29	2,669.64	2,587.71	11.41	12.85	-33.41	-231.37	473.23	182.58	162.42	20.16	9.057		
2,800.00	2,744.79	2,769.19	2,680.12	12.01	13.58	-33.65	-248.65	505.93	192.08	170.94	21.14	9.086		
2,900.00	2,840.28	2,868.73	2,772.54	12.61	14.32	-33.87	-265.94	538.63	201.57	179.45	22.13	9.109		
3,000.00	2,935.77	2,968.28	2,864.96	13.22	15.07	-34.07	-283.23	571.33	211.08	187.95	23.12	9.128		
3,100.00	3,031.27	3,067.82	2,957.37	13.83	15.81	-34.25	-300.52	604.04	220.58	196.46	24.13	9.143		
3,200.00	3,126.76	3,167.37	3,049.79	14.44	16.56	-34.41	-317.81	636.74	230.09	204.96	25.13	9.155		
3,300.00	3,222.26	3,266.91	3,142.21	15.06	17.32	-34.57	-335.10	669.44	239.60	213.45	26.14	9.165		
3,400.00	3,317.75	3,366.46	3,234.63	15.68	18.07	-34.71	-352.39	702.14	249.11	221.95	27.16	9.172		
3,500.00	3,413.25	3,466.00	3,327.04	16.30	18.83	-34.84	-369.68	734.84	258.62	230.44	28.18	9.178		
3,600.00	3,508.74	3,565.55	3,419.46	16.92	19.59	-34.96	-386.97	767.54	268.13	238.93	29.20	9.183		
3,700.00	3,604.23	3,665.09	3,511.88	17.54	20.34	-35.08	-404.26	800.25	277.64	247.42	30.22	9.186		
3,800.00	3,699.73	3,764.64	3,604.29	18.17	21.10	-35.18	-421.54	832.95	287.16	255.91	31.25	9.189		
3,900.00	3,795.22	3,864.18	3,696.71	18.79	21.87	-35.28	-438.83	865.65	296.68	264.39	32.28	9.190		
4,000.00	3,890.72	3,963.73	3,789.13	19.42	22.63	-35.38	-456.12	898.35	306.19	272.88	33.31	9.191		
4,100.00	3,986.21	4,063.27	3,881.54	20.05	23.39	-35.46	-473.41	931.05	315.71	281.36	34.35	9.192		
4,200.00	4,081.70	4,162.82	3,973.96	20.67	24.16	-35.55	-490.70	963.75	325.23	289.84	35.38	9.192		
4,300.00	4,177.20	4,262.36	4,066.38	21.30	24.92	-35.62	-507.99	996.46	334.75	298.32	36.42	9.191		
4,400.00	4,272.69	4,361.91	4,158.79	21.93	25.69	-35.70	-525.28	1,029.16	344.26	306.80	37.46	9.190		
4,500.00	4,368.19	4,461.45	4,251.21	22.56	26.45	-35.77	-542.57	1,061.86	353.78	315.28	38.50	9.189		
4,600.00	4,463.68	4,561.00	4,343.63	23.19	27.22	-35.83	-559.86	1,094.56	363.30	323.76	39.54	9.188		
4,700.00	4,559.17	4,660.54	4,436.05	23.83	27.99	-35.89	-577.15	1,127.26	372.83	332.24	40.59	9.186		
4,800.00	4,654.67	4,760.09	4,528.46	24.46	28.76	-35.95	-594.44	1,159.96	382.35	340.72	41.63	9.184		
4,900.00	4,750.16	4,859.63	4,620.88	25.09	29.53	-36.01	-611.72	1,192.67	391.87	349.19	42.67	9.183		
5,000.00	4,845.66	4,959.18	4,713.30	25.72	30.30	-36.06	-629.01	1,225.37	401.39	357.67	43.72	9.181		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,058.72	4,805.71	26.36	31.06	-36.12	-646.30	1,258.07	410.91	366.14	44.77	9.179		
5,200.00	5,036.65	5,158.27	4,898.13	26.99	31.83	-36.16	-663.59	1,290.77	420.43	374.62	45.82	9.176		
5,300.00	5,132.14	5,257.81	4,990.55	27.63	32.60	-36.21	-680.88	1,323.47	429.96	383.09	46.87	9.174		
5,400.00	5,227.63	5,357.36	5,082.96	28.26	33.37	-36.26	-698.17	1,356.17	439.48	391.56	47.92	9.172		
5,500.00	5,323.13	5,456.90	5,175.38	28.90	34.15	-36.30	-715.46	1,388.87	449.00	400.04	48.97	9.170		
5,600.00	5,418.62	5,556.45	5,267.80	29.53	34.92	-36.34	-732.75	1,421.58	458.53	408.51	50.02	9.168		
5,700.00	5,514.12	5,655.99	5,360.21	30.17	35.69	-36.38	-750.04	1,454.28	468.05	416.98	51.07	9.165		
5,800.00	5,609.61	5,755.54	5,452.63	30.80	36.46	-36.42	-767.33	1,486.98	477.57	425.45	52.12	9.163		
5,900.00	5,705.10	5,855.08	5,545.05	31.44	37.23	-36.45	-784.62	1,519.68	487.10	433.93	53.17	9.161		
6,000.00	5,800.60	5,954.63	5,637.47	32.08	38.00	-36.49	-801.90	1,552.38	496.62	442.40	54.23	9.158		
6,100.00	5,896.09	6,054.17	5,729.88	32.71	38.77	-36.52	-819.19	1,585.08	506.15	450.87	55.28	9.156		
6,200.00	5,991.59	6,153.72	5,822.30	33.35	39.55	-36.55	-836.48	1,617.79	515.67	459.34	56.33	9.154		
6,300.00	6,087.08	6,253.26	5,914.72	33.99	40.32	-36.59	-853.77	1,650.49	525.20	467.81	57.39	9.152		
6,400.00	6,182.57	6,352.81	6,007.13	34.62	41.09	-36.62	-871.06	1,683.19	534.72	476.28	58.44	9.149		
6,499.99	6,278.06	6,458.86	6,105.69	35.26	41.91	-36.66	-889.37	1,717.81	544.05	484.47	59.58	9.131		
6,505.95	6,283.75	6,466.00	6,112.36	35.30	41.96	-36.67	-890.56	1,720.07	544.54	484.88	59.66	9.127		
6,600.00	6,374.00	6,578.82	6,218.52	35.88	42.77	-36.87	-908.39	1,753.79	551.78	490.93	60.85	9.068		
6,700.00	6,470.87	6,699.14	6,333.30	36.44	43.55	-37.05	-925.24	1,785.66	558.60	496.60	61.99	9.010		
6,800.00	6,568.53	6,819.79	6,449.83	36.96	44.25	-37.21	-939.85	1,813.31	564.50	501.49	63.01	8.959		
6,900.00	6,666.89	6,940.74	6,567.85	37.43	44.86	-37.34	-952.19	1,836.64	569.47	505.57	63.90	8.912		
7,000.00	6,765.82	7,061.93	6,687.12	37.85	45.40	-37.44	-962.21	1,855.59	573.50	508.83	64.66	8.869		
7,100.00	6,865.19	7,183.32	6,807.39	38.22	45.86	-37.52	-969.87	1,870.08	576.57	511.27	65.30	8.830		
7,200.00	6,964.89	7,304.84	6,928.38	38.55	46.26	-37.58	-975.14	1,880.06	578.69	512.88	65.81	8.794		
7,300.00	7,064.80	7,426.45	7,049.83	38.83	46.57	-37.61	-978.02	1,885.50	579.84	513.66	66.19	8.761		
7,369.20	7,134.00	7,510.64	7,134.00	39.00	46.75	-38.39	-978.60	1,886.59	580.07	513.70	66.37	8.740		
7,400.00	7,164.80	7,541.44	7,164.80	39.06	46.81	-38.39	-978.60	1,886.59	580.07	513.55	66.52	8.720		
7,469.20	7,234.00	7,610.64	7,234.00	39.22	46.94	-38.39	-978.60	1,886.59	580.07	513.21	66.86	8.676		
7,500.00	7,264.78	7,641.58	7,264.93	39.29	47.00	-38.26	-979.43	1,886.60	580.07	513.04	67.03	8.654		
7,550.00	7,314.53	7,691.81	7,314.90	39.44	47.13	-38.26	-984.34	1,886.63	580.07	512.71	67.37	8.611		
7,600.00	7,363.66	7,742.04	7,364.26	39.62	47.27	-38.26	-993.60	1,886.68	580.07	512.31	67.77	8.560		
7,650.00	7,411.81	7,792.27	7,412.60	39.82	47.44	-38.25	-1,007.14	1,886.76	580.07	511.84	68.24	8.501		
7,700.00	7,458.61	7,842.49	7,459.58	40.06	47.63	-38.24	-1,024.87	1,886.87	580.07	511.30	68.77	8.435		
7,750.00	7,503.69	7,892.70	7,504.81	40.32	47.85	-38.23	-1,046.63	1,887.00	580.07	510.70	69.37	8.362		
7,800.00	7,546.72	7,942.90	7,547.95	40.60	48.09	-38.22	-1,072.26	1,887.15	580.07	510.04	70.03	8.283		
7,850.00	7,587.38	7,993.09	7,588.68	40.92	48.34	-38.21	-1,101.56	1,887.33	580.07	509.31	70.75	8.198		
7,900.00	7,625.34	8,043.27	7,626.68	41.25	48.62	-38.19	-1,134.31	1,887.52	580.07	508.53	71.54	8.108		
7,950.00	7,660.33	8,093.43	7,661.66	41.61	48.92	-38.18	-1,170.24	1,887.74	580.07	507.69	72.38	8.014		
8,000.00	7,692.07	8,143.58	7,693.36	42.00	49.24	-38.16	-1,209.08	1,887.97	580.06	506.79	73.28	7.916		
8,050.00	7,720.33	8,193.71	7,721.53	42.40	49.57	-38.14	-1,250.52	1,888.22	580.06	505.84	74.22	7.815		
8,100.00	7,744.89	8,243.83	7,745.97	42.83	49.92	-38.12	-1,294.26	1,888.48	580.06	504.84	75.22	7.712		
8,150.00	7,765.56	8,293.92	7,766.48	43.27	50.29	-38.10	-1,339.94	1,888.76	580.06	503.81	76.25	7.607		
8,200.00	7,782.18	8,344.00	7,782.92	43.74	50.68	-38.08	-1,387.23	1,889.04	580.06	502.73	77.32	7.502		
8,250.00	7,794.63	8,394.06	7,795.17	44.22	51.08	-38.05	-1,435.75	1,889.33	580.06	501.63	78.42	7.396		
8,300.00	7,802.82	8,444.10	7,803.13	44.71	51.49	-38.03	-1,485.13	1,889.63	580.05	500.51	79.55	7.292		
8,350.00	7,806.68	8,494.11	7,806.76	45.21	51.90	-38.01	-1,535.00	1,889.92	580.05	499.37	80.68	7.189		
8,369.28	7,807.00	8,513.39	7,807.00	45.40	52.07	-38.00	-1,554.27	1,890.04	580.05	498.93	81.12	7.150		
8,400.00	7,807.00	8,544.11	7,807.00	45.72	52.33	-38.00	-1,584.99	1,890.22	580.05	498.22	81.83	7.089		
8,500.00	7,807.00	8,644.11	7,807.00	46.77	53.22	-38.00	-1,684.99	1,890.82	580.05	495.87	84.18	6.890		
8,600.00	7,807.00	8,744.11	7,807.00	47.86	54.15	-38.00	-1,784.99	1,891.42	580.05	493.43	86.61	6.697		
8,700.00	7,807.00	8,844.11	7,807.00	48.99	55.12	-38.00	-1,884.99	1,892.02	580.04	490.92	89.12	6.509		
8,800.00	7,806.99	8,944.11	7,807.00	50.16	56.13	-38.00	-1,984.99	1,892.62	580.04	488.35	91.69	6.326		
8,900.00	7,806.99	9,044.11	7,806.99	51.37	57.18	-38.00	-2,084.99	1,893.22	580.04	485.70	94.33	6.149		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,144.11	7,806.99	52.60	58.26	-90.00	-2,184.98	1,893.82	580.03	483.01	97.03	5.978		
9,100.00	7,806.99	9,244.11	7,806.99	53.87	59.37	-90.00	-2,284.98	1,894.42	580.03	480.25	99.78	5.813		
9,200.00	7,806.99	9,344.11	7,806.99	55.17	60.52	-90.00	-2,384.98	1,895.01	580.03	477.45	102.58	5.655		
9,300.00	7,806.99	9,444.11	7,806.99	56.49	61.70	-90.00	-2,484.98	1,895.61	580.03	474.61	105.42	5.502		
9,400.00	7,806.99	9,544.11	7,806.99	57.83	62.90	-90.00	-2,584.98	1,896.21	580.02	471.72	108.30	5.356		
9,500.00	7,806.99	9,644.11	7,806.99	59.20	64.14	-90.00	-2,684.97	1,896.81	580.02	468.80	111.23	5.215		
9,600.00	7,806.98	9,744.11	7,806.99	60.59	65.39	-90.00	-2,784.97	1,897.41	580.02	465.83	114.18	5.080		
9,700.00	7,806.98	9,844.11	7,806.99	62.00	66.68	-90.00	-2,884.97	1,898.01	580.02	462.84	117.17	4.950		
9,800.00	7,806.98	9,944.11	7,806.98	63.43	67.98	-90.00	-2,984.97	1,898.61	580.01	459.82	120.20	4.826		
9,900.00	7,806.98	10,044.11	7,806.98	64.87	69.31	-90.00	-3,084.97	1,899.21	580.01	456.77	123.24	4.706		
10,000.00	7,806.98	10,144.11	7,806.98	66.34	70.65	-90.00	-3,184.97	1,899.81	580.01	453.69	126.32	4.592		
10,100.00	7,806.98	10,244.11	7,806.98	67.81	72.02	-90.00	-3,284.96	1,900.40	580.00	450.59	129.42	4.482		
10,200.00	7,806.98	10,344.11	7,806.98	69.30	73.41	-90.00	-3,384.96	1,901.00	580.00	447.46	132.54	4.376		
10,300.00	7,806.98	10,444.11	7,806.98	70.81	74.81	-90.00	-3,484.96	1,901.60	580.00	444.32	135.68	4.275		
10,400.00	7,806.97	10,544.11	7,806.98	72.32	76.22	-90.00	-3,584.96	1,902.20	580.00	441.15	138.84	4.177		
10,500.00	7,806.97	10,644.11	7,806.98	73.85	77.66	-90.00	-3,684.96	1,902.80	579.99	437.97	142.02	4.084		
10,600.00	7,806.97	10,744.11	7,806.98	75.39	79.10	-90.00	-3,784.96	1,903.40	579.99	434.77	145.22	3.994		
10,700.00	7,806.97	10,844.11	7,806.98	76.94	80.57	-90.00	-3,884.95	1,904.00	579.99	431.56	148.43	3.907		
10,800.00	7,806.97	10,944.11	7,806.97	78.49	82.04	-90.00	-3,984.95	1,904.60	579.99	428.33	151.66	3.824		
10,900.00	7,806.97	11,044.11	7,806.97	80.06	83.52	-90.00	-4,084.95	1,905.19	579.98	425.08	154.90	3.744		
11,000.00	7,806.97	11,144.11	7,806.97	81.64	85.02	-90.00	-4,184.95	1,905.79	579.98	421.83	158.15	3.667		
11,100.00	7,806.97	11,244.11	7,806.97	83.22	86.53	-90.00	-4,284.95	1,906.39	579.98	418.56	161.42	3.593		
11,200.00	7,806.96	11,344.11	7,806.97	84.81	88.05	-90.00	-4,384.94	1,906.99	579.97	415.28	164.70	3.521		
11,300.00	7,806.96	11,444.11	7,806.97	86.41	89.58	-90.00	-4,484.94	1,907.59	579.97	411.98	167.99	3.452		
11,400.00	7,806.96	11,544.11	7,806.97	88.01	91.11	-90.00	-4,584.94	1,908.19	579.97	408.68	171.29	3.386		
11,500.00	7,806.96	11,644.11	7,806.97	89.63	92.66	-90.00	-4,684.94	1,908.79	579.97	405.37	174.59	3.322		
11,600.00	7,806.96	11,744.11	7,806.97	91.24	94.21	-90.00	-4,784.94	1,909.39	579.96	402.05	177.91	3.260		
11,700.00	7,806.96	11,844.11	7,806.96	92.87	95.78	-90.00	-4,884.94	1,909.99	579.96	398.72	181.24	3.200		
11,800.00	7,806.96	11,944.11	7,806.96	94.49	97.35	-90.00	-4,984.93	1,910.58	579.96	395.38	184.57	3.142		
11,900.00	7,806.95	12,044.11	7,806.96	96.13	98.92	-90.00	-5,084.93	1,911.18	579.95	392.04	187.92	3.086		
12,000.00	7,806.95	12,144.11	7,806.96	97.77	100.51	-90.00	-5,184.93	1,911.78	579.95	388.69	191.27	3.032		
12,100.00	7,806.95	12,244.11	7,806.96	99.41	102.10	-90.00	-5,284.93	1,912.38	579.95	385.33	194.62	2.980		
12,200.00	7,806.95	12,344.11	7,806.96	101.06	103.69	-90.00	-5,384.93	1,912.98	579.95	381.96	197.99	2.929		
12,300.00	7,806.95	12,444.11	7,806.96	102.71	105.30	-90.00	-5,484.92	1,913.58	579.94	378.59	201.36	2.880		
12,400.00	7,806.95	12,544.11	7,806.96	104.37	106.90	-90.00	-5,584.92	1,914.18	579.94	375.21	204.73	2.833		
12,500.00	7,806.95	12,644.11	7,806.96	106.02	108.52	-90.00	-5,684.92	1,914.78	579.94	371.83	208.11	2.787		
12,600.00	7,806.95	12,744.11	7,806.96	107.69	110.13	-90.00	-5,784.92	1,915.38	579.94	368.44	211.50	2.742		
12,700.00	7,806.94	12,844.11	7,806.95	109.35	111.76	-90.00	-5,884.92	1,915.97	579.93	365.04	214.89	2.699		
12,800.00	7,806.94	12,944.11	7,806.95	111.02	113.39	-90.00	-5,984.92	1,916.57	579.93	361.64	218.29	2.657		
12,900.00	7,806.94	13,044.11	7,806.95	112.70	115.02	-90.00	-6,084.91	1,917.17	579.93	358.24	221.69	2.616		
13,000.00	7,806.94	13,144.11	7,806.95	114.37	116.65	-90.00	-6,184.91	1,917.77	579.92	354.83	225.09	2.576		
13,100.00	7,806.94	13,244.11	7,806.95	116.05	118.29	-90.00	-6,284.91	1,918.37	579.92	351.42	228.50	2.538		
13,200.00	7,806.94	13,344.11	7,806.95	117.74	119.94	-90.00	-6,384.91	1,918.97	579.92	348.00	231.92	2.501		
13,300.00	7,806.94	13,444.11	7,806.95	119.42	121.59	-90.00	-6,484.91	1,919.57	579.92	344.58	235.34	2.464		
13,400.00	7,806.94	13,544.11	7,806.95	121.11	123.24	-90.00	-6,584.91	1,920.17	579.91	341.15	238.76	2.429		
13,500.00	7,806.93	13,644.11	7,806.95	122.80	124.89	-90.00	-6,684.90	1,920.77	579.91	337.73	242.18	2.395		
13,600.00	7,806.93	13,744.11	7,806.94	124.49	126.55	-90.00	-6,784.90	1,921.36	579.91	334.30	245.61	2.361		
13,700.00	7,806.93	13,844.11	7,806.94	126.18	128.21	-90.00	-6,884.90	1,921.96	579.91	330.86	249.04	2.329		
13,800.00	7,806.93	13,944.11	7,806.94	127.88	129.88	-90.00	-6,984.90	1,922.56	579.90	327.42	252.48	2.297		
13,900.00	7,806.93	14,044.11	7,806.94	129.58	131.54	-90.00	-7,084.90	1,923.16	579.90	323.98	255.92	2.266		
14,000.00	7,806.93	14,144.11	7,806.94	131.28	133.21	-90.00	-7,184.89	1,923.76	579.90	320.54	259.36	2.236		
14,100.00	7,806.93	14,244.11	7,806.94	132.98	134.89	-90.00	-7,284.89	1,924.36	579.89	317.09	262.80	2.207		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	14,344.11	7,806.94	134.68	136.56	-90.00	-7,384.89	1,924.96	579.89	313.64	266.25	2.178		
14,300.00	7,806.92	14,444.11	7,806.94	136.39	138.24	-90.00	-7,484.89	1,925.56	579.89	310.19	269.70	2.150		
14,400.00	7,806.92	14,544.11	7,806.94	138.10	139.92	-90.00	-7,584.89	1,926.16	579.89	306.74	273.15	2.123		
14,500.00	7,806.92	14,644.11	7,806.94	139.81	141.60	-90.00	-7,684.89	1,926.75	579.88	303.28	276.60	2.096		
14,600.00	7,806.92	14,744.11	7,806.93	141.52	143.29	-90.00	-7,784.88	1,927.35	579.88	299.82	280.06	2.071		
14,700.00	7,806.92	14,844.11	7,806.93	143.23	144.98	-90.00	-7,884.88	1,927.95	579.88	296.36	283.52	2.045		
14,800.00	7,806.92	14,944.11	7,806.93	144.94	146.67	-90.00	-7,984.88	1,928.55	579.87	292.90	286.98	2.021		
14,900.00	7,806.92	15,044.11	7,806.93	146.66	148.36	-90.00	-8,084.88	1,929.15	579.87	289.43	290.44	1.997		
15,000.00	7,806.92	15,144.11	7,806.93	148.37	150.05	-90.00	-8,184.88	1,929.75	579.87	285.96	293.91	1.973		
15,100.00	7,806.91	15,244.11	7,806.93	150.09	151.74	-90.00	-8,284.87	1,930.35	579.87	282.49	297.37	1.950		
15,200.00	7,806.91	15,344.11	7,806.93	151.81	153.44	-90.00	-8,384.87	1,930.95	579.86	279.02	300.84	1.927		
15,300.00	7,806.91	15,444.11	7,806.93	153.53	155.14	-90.00	-8,484.87	1,931.55	579.86	275.55	304.31	1.905		
15,400.00	7,806.91	15,544.11	7,806.93	155.25	156.84	-90.00	-8,584.87	1,932.14	579.86	272.08	307.78	1.884		
15,500.00	7,806.91	15,644.11	7,806.92	156.97	158.54	-90.00	-8,684.87	1,932.74	579.86	268.60	311.26	1.863		
15,600.00	7,806.91	15,744.11	7,806.92	158.70	160.24	-90.00	-8,784.87	1,933.34	579.85	265.12	314.73	1.842		
15,700.00	7,806.91	15,844.11	7,806.92	160.42	161.95	-90.00	-8,884.86	1,933.94	579.85	261.64	318.21	1.822		
15,800.00	7,806.91	15,944.11	7,806.92	162.15	163.66	-90.00	-8,984.86	1,934.54	579.85	258.16	321.69	1.803		
15,900.00	7,806.90	16,044.11	7,806.92	163.88	165.36	-90.00	-9,084.86	1,935.14	579.84	254.68	325.17	1.783		
16,000.00	7,806.90	16,144.11	7,806.92	165.60	167.07	-90.00	-9,184.86	1,935.74	579.84	251.20	328.65	1.764		
16,100.00	7,806.90	16,244.11	7,806.92	167.33	168.78	-90.00	-9,284.86	1,936.34	579.84	247.71	332.13	1.746		
16,200.00	7,806.90	16,344.11	7,806.92	169.06	170.50	-90.00	-9,384.85	1,936.93	579.84	244.22	335.61	1.728		
16,300.00	7,806.90	16,444.11	7,806.92	170.79	172.21	-90.00	-9,484.85	1,937.53	579.83	240.74	339.10	1.710		
16,400.00	7,806.90	16,544.11	7,806.92	172.52	173.92	-90.00	-9,584.85	1,938.13	579.83	237.25	342.58	1.693		
16,500.00	7,806.90	16,644.11	7,806.91	174.26	175.64	-90.00	-9,684.85	1,938.73	579.83	233.76	346.07	1.675		
16,600.00	7,806.89	16,744.11	7,806.91	175.99	177.36	-90.00	-9,784.85	1,939.33	579.82	230.26	349.56	1.659		
16,700.00	7,806.89	16,844.11	7,806.91	177.72	179.07	-90.00	-9,884.85	1,939.93	579.82	226.77	353.05	1.642		
16,800.00	7,806.89	16,944.11	7,806.91	179.46	180.79	-90.00	-9,984.84	1,940.53	579.82	223.28	356.54	1.626		
16,900.00	7,806.89	17,044.11	7,806.91	181.19	182.51	-90.00	-10,084.84	1,941.13	579.82	219.78	360.03	1.610		
17,000.00	7,806.89	17,144.11	7,806.91	182.93	184.23	-90.00	-10,184.84	1,941.73	579.81	216.29	363.53	1.595		
17,100.00	7,806.89	17,244.11	7,806.91	184.67	185.95	-90.00	-10,284.84	1,942.32	579.81	212.79	367.02	1.580		
17,200.00	7,806.89	17,344.11	7,806.91	186.40	187.68	-90.00	-10,384.84	1,942.92	579.81	209.29	370.51	1.565		
17,300.00	7,806.89	17,444.11	7,806.91	188.14	189.40	-90.00	-10,484.84	1,943.52	579.81	205.80	374.01	1.550		
17,400.00	7,806.88	17,544.11	7,806.90	189.88	191.13	-90.00	-10,584.83	1,944.12	579.80	202.30	377.51	1.536		
17,500.00	7,806.88	17,644.11	7,806.90	191.62	192.85	-90.00	-10,684.83	1,944.72	579.80	198.79	381.01	1.522		
17,600.00	7,806.88	17,744.11	7,806.90	193.36	194.58	-90.00	-10,784.83	1,945.32	579.80	195.29	384.50	1.508		
17,700.00	7,806.88	17,844.11	7,806.90	195.10	196.31	-90.00	-10,884.83	1,945.92	579.79	191.79	388.00	1.494	Level 3	
17,800.00	7,806.88	17,944.11	7,806.90	196.84	198.03	-90.00	-10,984.83	1,946.52	579.79	188.29	391.50	1.481	Level 3	
17,900.00	7,806.88	18,044.11	7,806.90	198.58	199.76	-90.00	-11,084.82	1,947.12	579.79	184.78	395.00	1.468	Level 3	
17,950.78	7,806.88	24,076.65	7,806.89	199.47	304.67	-90.00	-11,133.58	1,947.38	579.77	78.13	501.63	1.156	Level 2, SF	
18,000.00	7,806.88	18,142.09	7,806.95	200.33	201.46	-90.01	-11,182.80	1,947.85	579.94	181.29	398.64	1.455	Level 3	
18,027.46	7,807.00	18,169.55	7,806.99	200.80	201.93	-90.00	-11,210.26	1,948.11	580.30	180.69	399.61	1.452	Level 3	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT CARR 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INCH													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	-34.04	3,179.79	-2,147.88	3,837.24					
100.00	100.00	100.00	100.00	0.13	1.20	-34.04	3,179.79	-2,147.88	3,837.24	3,835.91	1.33	2,879.409		
200.00	200.00	200.00	200.00	0.49	3.49	-34.04	3,179.79	-2,147.88	3,837.24	3,833.26	3.98	963.944		
300.00	300.00	300.00	300.00	0.85	5.57	-34.04	3,179.79	-2,147.88	3,837.24	3,830.82	6.42	597.928		
400.00	400.00	400.00	400.00	1.21	7.61	-34.04	3,179.79	-2,147.88	3,837.24	3,828.42	8.82	435.149		
500.00	500.00	500.00	500.00	1.57	9.64	-34.04	3,179.79	-2,147.88	3,837.24	3,826.04	11.21	342.435		
600.00	600.00	600.00	600.00	1.93	11.66	-34.04	3,179.79	-2,147.88	3,837.24	3,823.65	13.59	282.420		
700.00	700.00	700.00	700.00	2.29	13.68	-34.04	3,179.79	-2,147.88	3,837.24	3,821.28	15.96	240.357		
800.00	800.00	800.00	800.00	2.64	15.70	-34.04	3,179.79	-2,147.88	3,837.24	3,818.90	18.34	209.224		
900.00	900.00	900.00	900.00	3.00	17.71	-34.04	3,179.79	-2,147.88	3,837.24	3,816.53	20.71	185.244		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	19.73	-34.04	3,179.79	-2,147.88	3,837.24	3,814.15	23.09	166.202	CC	
1,100.00	1,099.98	1,100.02	1,099.98	3.71	21.74	-161.04	3,179.79	-2,147.88	3,838.89	3,813.45	25.45	150.858	ES	
1,200.00	1,199.84	1,200.16	1,199.84	4.04	23.76	-161.03	3,179.79	-2,147.88	3,843.84	3,816.04	27.80	138.271		
1,300.00	1,299.45	1,300.55	1,299.45	4.39	25.78	-161.02	3,179.79	-2,147.88	3,852.09	3,821.93	30.16	127.717		
1,400.00	1,398.70	1,401.30	1,398.70	4.74	27.81	-161.01	3,179.79	-2,147.88	3,863.62	3,831.09	32.53	118.756		
1,500.00	1,497.47	1,502.53	1,497.47	5.12	29.84	-160.98	3,179.79	-2,147.88	3,878.43	3,843.51	34.92	111.063		
1,600.00	1,595.62	1,604.38	1,595.62	5.51	31.89	-160.96	3,179.79	-2,147.88	3,896.50	3,859.18	37.32	104.396		
1,700.00	1,693.06	1,706.94	1,693.06	5.94	33.96	-160.92	3,179.79	-2,147.88	3,917.82	3,878.07	39.75	98.569		
1,800.00	1,789.64	1,789.64	1,789.64	6.39	35.62	-160.88	3,179.79	-2,147.88	3,942.36	3,900.59	41.78	94.371		
1,863.26	1,850.25	1,850.25	1,850.25	6.70	36.84	-160.85	3,179.79	-2,147.88	3,959.55	3,916.32	43.23	91.594		
1,900.00	1,885.34	1,885.34	1,885.34	6.89	37.55	-160.90	3,179.79	-2,147.88	3,969.90	3,925.83	44.07	90.078		
2,000.00	1,980.83	1,980.83	1,980.83	7.41	39.47	-161.04	3,179.79	-2,147.88	3,998.09	3,951.73	46.36	86.236		
2,100.00	2,076.33	2,076.33	2,076.33	7.95	41.39	-161.17	3,179.79	-2,147.88	4,026.30	3,977.64	48.66	82.747		
2,200.00	2,171.82	2,171.82	2,171.82	8.50	43.31	-161.31	3,179.79	-2,147.88	4,054.53	4,003.57	50.96	79.565		
2,300.00	2,267.32	2,267.32	2,267.32	9.07	45.23	-161.44	3,179.79	-2,147.88	4,082.78	4,029.52	53.26	76.653		
2,400.00	2,362.81	2,362.81	2,362.81	9.64	47.15	-161.57	3,179.79	-2,147.88	4,111.05	4,055.48	55.57	73.979		
2,500.00	2,458.30	2,458.30	2,458.30	10.22	49.07	-161.70	3,179.79	-2,147.88	4,139.35	4,081.47	57.88	71.515		
2,600.00	2,553.80	2,553.80	2,553.80	10.81	50.99	-161.83	3,179.79	-2,147.88	4,167.66	4,107.46	60.19	69.237		
2,700.00	2,649.29	2,649.29	2,649.29	11.41	52.91	-161.95	3,179.79	-2,147.88	4,195.99	4,133.48	62.51	67.127		
2,800.00	2,744.79	2,744.79	2,744.79	12.01	54.84	-162.08	3,179.79	-2,147.88	4,224.34	4,159.51	64.82	65.166		
2,900.00	2,840.28	2,840.28	2,840.28	12.61	56.76	-162.20	3,179.79	-2,147.88	4,252.70	4,185.56	67.14	63.339		
3,000.00	2,935.77	2,935.77	2,935.77	13.22	58.68	-162.32	3,179.79	-2,147.88	4,281.09	4,211.63	69.46	61.633		
3,100.00	3,031.27	3,031.27	3,031.27	13.83	60.60	-162.44	3,179.79	-2,147.88	4,309.49	4,237.71	71.78	60.036		
3,200.00	3,126.76	3,126.76	3,126.76	14.44	62.52	-162.56	3,179.79	-2,147.88	4,337.91	4,263.81	74.10	58.539		
3,300.00	3,222.26	3,222.26	3,222.26	15.06	64.44	-162.68	3,179.79	-2,147.88	4,366.35	4,289.92	76.42	57.133		
3,400.00	3,317.75	3,317.75	3,317.75	15.68	66.36	-162.79	3,179.79	-2,147.88	4,394.80	4,316.05	78.75	55.810		
3,500.00	3,413.25	3,413.25	3,413.25	16.30	68.28	-162.90	3,179.79	-2,147.88	4,423.27	4,342.20	81.07	54.562		
3,600.00	3,508.74	3,508.74	3,508.74	16.92	70.20	-163.02	3,179.79	-2,147.88	4,451.75	4,368.36	83.39	53.383		
3,700.00	3,604.23	3,604.23	3,604.23	17.54	72.12	-163.13	3,179.79	-2,147.88	4,480.25	4,394.54	85.72	52.268		
3,800.00	3,699.73	3,700.27	3,699.73	18.17	74.05	-163.23	3,179.79	-2,147.88	4,508.77	4,420.72	88.05	51.206		
3,900.00	3,795.22	3,804.78	3,795.22	18.79	76.15	-163.34	3,179.79	-2,147.88	4,537.30	4,446.74	90.56	50.104		
4,000.00	3,890.72	3,909.28	3,890.72	19.42	78.26	-163.45	3,179.79	-2,147.88	4,565.84	4,472.78	93.06	49.062		
4,100.00	3,986.21	3,986.21	3,986.21	20.05	79.80	-163.55	3,179.79	-2,147.88	4,594.40	4,499.39	95.01	48.355		
4,200.00	4,081.70	4,081.70	4,081.70	20.67	81.72	-163.66	3,179.79	-2,147.88	4,622.97	4,525.64	97.34	47.493		
4,300.00	4,177.20	4,177.20	4,177.20	21.30	83.64	-163.76	3,179.79	-2,147.88	4,651.56	4,551.90	99.66	46.672		
4,400.00	4,272.69	4,272.69	4,272.69	21.93	85.56	-163.86	3,179.79	-2,147.88	4,680.16	4,578.17	101.99	45.889		
4,500.00	4,368.19	4,368.19	4,368.19	22.56	87.49	-163.96	3,179.79	-2,147.88	4,708.78	4,604.46	104.32	45.140		
4,600.00	4,463.68	4,463.68	4,463.68	23.19	89.41	-164.06	3,179.79	-2,147.88	4,737.40	4,630.76	106.64	44.424		
4,700.00	4,559.17	4,559.17	4,559.17	23.83	91.33	-164.16	3,179.79	-2,147.88	4,766.04	4,657.08	108.97	43.739		
4,800.00	4,654.67	4,654.67	4,654.67	24.46	93.25	-164.25	3,179.79	-2,147.88	4,794.70	4,683.41	111.29	43.082		
4,900.00	4,750.16	4,750.16	4,750.16	25.09	95.17	-164.35	3,179.79	-2,147.88	4,823.36	4,709.74	113.62	42.453		
5,000.00	4,845.66	4,845.66	4,845.66	25.72	97.09	-164.44	3,179.79	-2,147.88	4,852.04	4,736.10	115.94	41.849		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT CARR 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,941.15	4,941.15	26.36	99.01	-164.54	3,179.79	-2,147.88	4,880.73	4,762.46	118.27	41.268		
5,200.00	5,036.65	5,036.65	5,036.65	26.99	100.93	-164.63	3,179.79	-2,147.88	4,909.43	4,788.84	120.59	40.710		
5,300.00	5,132.14	5,132.14	5,132.14	27.63	102.85	-164.72	3,179.79	-2,147.88	4,938.14	4,815.22	122.92	40.174		
5,400.00	5,227.63	5,227.63	5,227.63	28.26	104.77	-164.81	3,179.79	-2,147.88	4,966.87	4,841.62	125.25	39.657		
5,500.00	5,323.13	5,323.13	5,323.13	28.90	106.69	-164.90	3,179.79	-2,147.88	4,995.60	4,868.03	127.57	39.159		
5,600.00	5,418.62	5,418.62	5,418.62	29.53	108.61	-164.99	3,179.79	-2,147.88	5,024.35	4,894.45	129.90	38.680		
5,700.00	5,514.12	5,514.12	5,514.12	30.17	110.53	-165.07	3,179.79	-2,147.88	5,053.10	4,920.88	132.22	38.217		
5,800.00	5,609.61	5,609.61	5,609.61	30.80	112.45	-165.16	3,179.79	-2,147.88	5,081.87	4,947.32	134.55	37.770		
5,900.00	5,705.10	5,705.10	5,705.10	31.44	114.37	-165.25	3,179.79	-2,147.88	5,110.65	4,973.78	136.87	37.339		
6,000.00	5,800.60	5,800.60	5,800.60	32.08	116.29	-165.33	3,179.79	-2,147.88	5,139.44	5,000.24	139.20	36.922		
6,100.00	5,896.09	5,903.91	5,896.09	32.71	118.37	-165.41	3,179.79	-2,147.88	5,168.24	5,026.56	141.68	36.478		
6,200.00	5,991.59	6,008.41	5,991.59	33.35	120.47	-165.49	3,179.79	-2,147.88	5,197.04	5,052.86	144.19	36.043		
6,300.00	6,087.08	6,087.08	6,087.08	33.99	122.05	-165.58	3,179.79	-2,147.88	5,225.86	5,079.69	146.18	35.751		
6,400.00	6,182.57	6,182.57	6,182.57	34.62	123.97	-165.66	3,179.79	-2,147.88	5,254.69	5,106.19	148.50	35.385		
6,499.99	6,278.06	6,278.06	6,278.06	35.26	125.89	-165.74	3,179.79	-2,147.88	5,283.52	5,132.70	150.83	35.031		
6,505.95	6,283.75	6,283.75	6,283.75	35.30	126.01	-165.74	3,179.79	-2,147.88	5,285.24	5,134.28	150.96	35.010		
6,600.00	6,374.00	6,374.00	6,374.00	35.88	127.82	-165.94	3,179.79	-2,147.88	5,310.94	5,157.78	153.16	34.677		
6,700.00	6,470.87	6,470.87	6,470.87	36.44	129.77	-166.13	3,179.79	-2,147.88	5,335.09	5,179.59	155.50	34.310		
6,800.00	6,568.53	6,568.53	6,568.53	36.96	131.74	-166.28	3,179.79	-2,147.88	5,355.94	5,198.10	157.84	33.932		
6,900.00	6,666.89	6,666.89	6,666.89	37.43	133.71	-166.41	3,179.79	-2,147.88	5,373.47	5,213.28	160.19	33.544		
7,000.00	6,765.82	6,765.82	6,765.82	37.85	135.70	-166.51	3,179.79	-2,147.88	5,387.65	5,225.11	162.54	33.146		
7,100.00	6,865.19	6,865.19	6,865.19	38.22	137.70	-166.59	3,179.79	-2,147.88	5,398.47	5,233.58	164.89	32.740		
7,200.00	6,964.89	6,964.89	6,964.89	38.55	139.71	-166.65	3,179.79	-2,147.88	5,405.91	5,238.68	167.23	32.326		
7,300.00	7,064.80	7,064.80	7,064.80	38.83	141.72	-166.67	3,179.79	-2,147.88	5,409.96	5,240.39	169.56	31.905		
7,369.20	7,134.00	7,134.00	7,134.00	39.00	143.11	-39.68	3,179.79	-2,147.88	5,410.77	5,239.60	171.17	31.611		
7,400.00	7,164.80	7,164.80	7,164.80	39.06	143.73	-39.68	3,179.79	-2,147.88	5,410.77	5,238.89	171.88	31.481		
7,469.20	7,234.00	7,234.00	7,234.00	39.22	145.12	-39.68	3,179.79	-2,147.88	5,410.77	5,237.30	173.47	31.191		
7,500.00	7,264.78	7,264.78	7,264.78	39.29	145.74	140.63	3,179.79	-2,147.88	5,411.41	5,237.23	174.18	31.067		
7,550.00	7,314.53	7,314.53	7,314.53	39.44	146.74	140.43	3,179.79	-2,147.88	5,415.17	5,239.83	175.34	30.884		
7,600.00	7,363.66	7,363.66	7,363.66	39.62	147.73	140.03	3,179.79	-2,147.88	5,422.28	5,245.79	176.49	30.723		
7,650.00	7,411.81	7,411.81	7,411.81	39.82	148.69	139.43	3,179.79	-2,147.88	5,432.68	5,255.06	177.62	30.587		
7,700.00	7,458.61	7,458.61	7,458.61	40.06	149.63	138.62	3,179.79	-2,147.88	5,446.32	5,267.60	178.72	30.475		
7,750.00	7,503.69	7,503.69	7,503.69	40.32	150.54	137.57	3,179.79	-2,147.88	5,463.10	5,283.32	179.78	30.388		
7,800.00	7,546.72	7,546.72	7,546.72	40.60	151.41	136.27	3,179.79	-2,147.88	5,482.92	5,302.12	180.79	30.327		
7,850.00	7,587.38	7,587.38	7,587.38	40.92	152.22	134.67	3,179.79	-2,147.88	5,505.64	5,323.88	181.75	30.292		
7,900.00	7,625.34	7,625.34	7,625.34	41.25	152.99	132.75	3,179.79	-2,147.88	5,531.11	5,348.46	182.65	30.283 SF		
7,950.00	7,660.33	7,660.33	7,660.33	41.61	153.69	130.45	3,179.79	-2,147.88	5,559.16	5,375.69	183.47	30.300		
8,000.00	7,692.07	7,707.93	7,692.07	42.00	154.65	127.71	3,179.79	-2,147.88	5,589.60	5,405.06	184.54	30.289		
8,050.00	7,720.33	7,720.33	7,720.33	42.40	154.90	124.49	3,179.79	-2,147.88	5,622.22	5,437.33	184.88	30.409		
8,100.00	7,744.89	7,744.89	7,744.89	42.83	155.39	120.71	3,179.79	-2,147.88	5,656.78	5,471.32	185.46	30.501		
8,150.00	7,765.56	7,765.56	7,765.56	43.27	155.81	116.33	3,179.79	-2,147.88	5,693.04	5,507.10	185.94	30.618		
8,200.00	7,782.18	7,782.18	7,782.18	43.74	156.14	111.30	3,179.79	-2,147.88	5,730.74	5,544.41	186.32	30.757		
8,250.00	7,794.63	7,805.37	7,794.63	44.22	156.61	105.62	3,179.79	-2,147.88	5,769.59	5,582.77	186.82	30.883		
8,300.00	7,802.82	7,802.82	7,802.82	44.71	156.56	99.36	3,179.79	-2,147.88	5,809.32	5,622.53	186.79	31.101		
8,350.00	7,806.68	7,806.68	7,806.68	45.21	156.63	92.66	3,179.79	-2,147.88	5,849.62	5,662.75	186.87	31.303		
8,369.28	7,807.00	7,807.00	7,807.00	45.40	156.64	90.00	3,179.79	-2,147.88	5,865.25	5,678.37	186.87	31.386		
8,400.00	7,807.00	7,807.00	7,807.00	45.72	156.64	90.00	3,179.79	-2,147.88	5,890.20	5,703.33	186.87	31.521		
8,500.00	7,807.00	7,807.00	7,807.00	46.77	156.64	90.00	3,179.79	-2,147.88	5,971.79	5,784.92	186.86	31.958		
8,600.00	7,807.00	7,807.00	7,807.00	47.86	156.64	90.00	3,179.79	-2,147.88	6,053.93	5,867.05	186.87	32.396		
8,700.00	7,807.00	7,807.00	7,807.00	48.99	156.64	90.00	3,179.79	-2,147.88	6,136.60	5,949.70	186.90	32.834		
8,800.00	7,806.99	7,806.99	7,806.99	50.16	156.64	90.00	3,179.79	-2,147.88	6,219.78	6,032.84	186.94	33.272		
8,900.00	7,806.99	7,806.99	7,806.99	51.37	156.64	90.00	3,179.79	-2,147.88	6,303.44	6,116.46	186.99	33.710		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT CARR 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,806.99	7,806.99	52.60	156.64	90.00	3,179.79	-2,147.88	6,387.58	6,200.53	187.05	34.148		
9,100.00	7,806.99	7,806.99	7,806.99	53.87	156.64	90.00	3,179.79	-2,147.88	6,472.17	6,285.04	187.13	34.587		
9,200.00	7,806.99	7,806.99	7,806.99	55.17	156.64	90.00	3,179.79	-2,147.88	6,557.19	6,369.98	187.21	35.025		
9,300.00	7,806.99	7,806.99	7,806.99	56.49	156.64	90.00	3,179.79	-2,147.88	6,642.63	6,455.33	187.31	35.464		
9,400.00	7,806.99	7,806.99	7,806.99	57.83	156.64	90.00	3,179.79	-2,147.88	6,728.48	6,541.06	187.41	35.902		
9,500.00	7,806.99	7,806.99	7,806.99	59.20	156.64	90.00	3,179.79	-2,147.88	6,814.70	6,627.18	187.52	36.341		
9,600.00	7,806.98	7,806.98	7,806.98	60.59	156.64	90.00	3,179.79	-2,147.88	6,901.30	6,713.66	187.64	36.780		
9,700.00	7,806.98	7,806.98	7,806.98	62.00	156.64	90.00	3,179.79	-2,147.88	6,988.26	6,800.50	187.76	37.219		
9,800.00	7,806.98	7,806.98	7,806.98	63.43	156.64	90.00	3,179.79	-2,147.88	7,075.56	6,887.67	187.89	37.658		
9,900.00	7,806.98	7,806.98	7,806.98	64.87	156.64	90.00	3,179.79	-2,147.88	7,163.19	6,975.17	188.02	38.097		
10,000.00	7,806.98	7,806.98	7,806.98	66.34	156.64	90.00	3,179.79	-2,147.88	7,251.15	7,062.99	188.16	38.536		
10,100.00	7,806.98	7,806.98	7,806.98	67.81	156.64	90.00	3,179.79	-2,147.88	7,339.41	7,151.11	188.31	38.976		
10,200.00	7,806.98	7,806.98	7,806.98	69.30	156.64	90.00	3,179.79	-2,147.88	7,427.97	7,239.52	188.45	39.416		
10,300.00	7,806.98	7,806.98	7,806.98	70.81	156.64	90.00	3,179.79	-2,147.88	7,516.82	7,328.22	188.60	39.856		
10,400.00	7,806.97	7,806.97	7,806.97	72.32	156.64	90.00	3,179.79	-2,147.88	7,605.94	7,417.19	188.75	40.296		
10,500.00	7,806.97	7,806.97	7,806.97	73.85	156.64	90.00	3,179.79	-2,147.88	7,695.33	7,506.42	188.91	40.736		
10,600.00	7,806.97	7,806.97	7,806.97	75.39	156.64	90.00	3,179.79	-2,147.88	7,784.98	7,595.92	189.06	41.176		
10,700.00	7,806.97	7,806.97	7,806.97	76.94	156.64	90.00	3,179.79	-2,147.88	7,874.88	7,685.66	189.22	41.617		
10,800.00	7,806.97	7,806.97	7,806.97	78.49	156.64	90.00	3,179.79	-2,147.88	7,965.02	7,775.63	189.38	42.058		
10,900.00	7,806.97	7,806.97	7,806.97	80.06	156.64	90.00	3,179.79	-2,147.88	8,055.39	7,865.85	189.55	42.499		
11,000.00	7,806.97	7,806.97	7,806.97	81.64	156.64	90.00	3,179.79	-2,147.88	8,145.99	7,956.28	189.71	42.940		
11,100.00	7,806.97	7,806.97	7,806.97	83.22	156.64	90.00	3,179.79	-2,147.88	8,236.80	8,046.93	189.87	43.381		
11,200.00	7,806.96	7,806.96	7,806.96	84.81	156.64	90.00	3,179.79	-2,147.88	8,327.83	8,137.79	190.04	43.822		
11,300.00	7,806.96	7,806.96	7,806.96	86.41	156.64	90.00	3,179.79	-2,147.88	8,419.06	8,228.85	190.20	44.264		
11,400.00	7,806.96	7,806.96	7,806.96	88.01	156.64	90.00	3,179.79	-2,147.88	8,510.48	8,320.11	190.37	44.706		
11,500.00	7,806.96	7,806.96	7,806.96	89.63	156.64	90.00	3,179.79	-2,147.88	8,602.10	8,411.57	190.53	45.148		
11,600.00	7,806.96	7,806.96	7,806.96	91.24	156.64	90.00	3,179.79	-2,147.88	8,693.90	8,503.20	190.70	45.590		
11,700.00	7,806.96	7,806.96	7,806.96	92.87	156.64	90.00	3,179.79	-2,147.88	8,785.88	8,595.01	190.86	46.032		
11,800.00	7,806.96	7,806.96	7,806.96	94.49	156.64	90.00	3,179.79	-2,147.88	8,878.03	8,687.00	191.03	46.475		
11,900.00	7,806.95	7,806.95	7,806.95	96.13	156.64	90.00	3,179.79	-2,147.88	8,970.35	8,779.16	191.20	46.917		
12,000.00	7,806.95	7,806.95	7,806.95	97.77	156.64	90.00	3,179.79	-2,147.88	9,062.84	8,871.48	191.36	47.360		
12,100.00	7,806.95	7,806.95	7,806.95	99.41	156.64	90.00	3,179.79	-2,147.88	9,155.48	8,963.96	191.53	47.803		
12,200.00	7,806.95	7,806.95	7,806.95	101.06	156.64	90.00	3,179.79	-2,147.88	9,248.28	9,056.59	191.69	48.246		
12,300.00	7,806.95	7,806.95	7,806.95	102.71	156.64	90.00	3,179.79	-2,147.88	9,341.22	9,149.37	191.86	48.689		
12,400.00	7,806.95	7,806.95	7,806.95	104.37	156.64	90.00	3,179.79	-2,147.88	9,434.31	9,242.29	192.02	49.132		
12,500.00	7,806.95	7,806.95	7,806.95	106.02	156.64	90.00	3,179.79	-2,147.88	9,527.54	9,335.36	192.18	49.575		
12,600.00	7,806.95	7,806.95	7,806.95	107.69	156.64	90.00	3,179.79	-2,147.88	9,620.91	9,428.56	192.35	50.018		
12,700.00	7,806.94	7,806.94	7,806.94	109.35	156.64	90.00	3,179.79	-2,147.88	9,714.40	9,521.89	192.51	50.462		
12,800.00	7,806.94	7,806.94	7,806.94	111.02	156.64	90.00	3,179.79	-2,147.88	9,808.03	9,615.36	192.67	50.906		
12,900.00	7,806.94	7,806.94	7,806.94	112.70	156.64	90.00	3,179.79	-2,147.88	9,901.78	9,708.95	192.83	51.349		
13,000.00	7,806.94	7,806.94	7,806.94	114.37	156.64	90.00	3,179.79	-2,147.88	9,995.65	9,802.66	192.99	51.793		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	19.00	19.00	0.00	0.21	11.52	881.49	179.59	899.60					
100.00	100.00	119.00	119.00	0.13	1.56	11.52	881.49	179.59	899.60	897.90	1.69	531.919		
200.00	200.00	219.00	219.00	0.49	3.82	11.52	881.49	179.59	899.60	895.28	4.31	208.527		
300.00	300.00	319.00	319.00	0.85	5.89	11.52	881.49	179.59	899.60	892.85	6.75	133.370		
400.00	400.00	419.00	419.00	1.21	7.93	11.52	881.49	179.59	899.60	890.45	9.14	98.386		
500.00	500.00	519.00	519.00	1.57	9.96	11.52	881.49	179.59	899.60	888.07	11.53	78.023		
600.00	600.00	619.00	619.00	1.93	11.98	11.52	881.49	179.59	899.60	885.68	13.91	64.670		
700.00	700.00	719.00	719.00	2.29	14.00	11.52	881.49	179.59	899.60	883.31	16.29	55.231		
800.00	800.00	819.00	819.00	2.64	16.02	11.52	881.49	179.59	899.60	880.93	18.66	48.201		
900.00	900.00	919.00	919.00	3.00	18.04	11.52	881.49	179.59	899.60	878.56	21.04	42.762		
1,000.00	1,000.00	1,019.00	1,019.00	3.36	20.05	11.52	881.49	179.59	899.60	876.18	23.41	38.427 CC		
1,100.00	1,099.98	1,118.98	1,118.98	3.71	22.06	-115.58	881.49	179.59	900.35	874.58	25.77	34.940		
1,200.00	1,199.84	1,218.84	1,218.84	4.04	24.07	-115.83	881.49	179.59	902.62	874.50	28.12	32.104 ES		
1,300.00	1,299.45	1,318.45	1,318.45	4.39	26.08	-116.26	881.49	179.59	906.46	875.99	30.47	29.754		
1,400.00	1,398.70	1,417.70	1,417.70	4.74	28.08	-116.84	881.49	179.59	911.94	879.12	32.82	27.788		
1,500.00	1,497.47	1,516.47	1,516.47	5.12	30.06	-117.58	881.49	179.59	919.17	883.99	35.17	26.132		
1,600.00	1,595.62	1,614.62	1,614.62	5.51	32.04	-118.45	881.49	179.59	928.26	890.72	37.53	24.731		
1,700.00	1,693.06	1,712.06	1,712.06	5.94	34.00	-119.44	881.49	179.59	939.36	899.46	39.90	23.544		
1,800.00	1,789.64	1,808.64	1,808.64	6.39	35.94	-120.53	881.49	179.59	952.64	910.37	42.27	22.538		
1,863.26	1,850.25	1,869.25	1,869.25	6.70	37.16	-121.26	881.49	179.59	962.23	918.46	43.77	21.984		
1,900.00	1,885.34	1,904.34	1,904.34	6.89	37.87	-121.79	881.49	179.59	968.12	923.48	44.64	21.686		
2,000.00	1,980.83	2,000.17	1,999.83	7.41	39.80	-123.22	881.49	179.59	984.60	937.57	47.03	20.936		
2,100.00	2,076.33	2,104.67	2,095.33	7.95	41.90	-124.59	881.49	179.59	1,001.68	952.08	49.60	20.197		
2,200.00	2,171.82	2,209.18	2,190.82	8.50	44.00	-125.93	881.49	179.59	1,019.34	967.17	52.17	19.540		
2,300.00	2,267.32	2,286.32	2,286.32	9.07	45.55	-127.22	881.49	179.59	1,037.55	983.36	54.19	19.147		
2,400.00	2,362.81	2,381.81	2,381.81	9.64	47.47	-128.46	881.49	179.59	1,056.28	999.70	56.58	18.669		
2,500.00	2,458.30	2,477.30	2,477.30	10.22	49.39	-129.67	881.49	179.59	1,075.50	1,016.54	58.97	18.239		
2,600.00	2,553.80	2,572.80	2,572.80	10.81	51.32	-130.83	881.49	179.59	1,095.19	1,033.84	61.35	17.851		
2,700.00	2,649.29	2,668.29	2,668.29	11.41	53.24	-131.96	881.49	179.59	1,115.33	1,051.59	63.74	17.499		
2,800.00	2,744.79	2,763.79	2,763.79	12.01	55.16	-133.05	881.49	179.59	1,135.88	1,069.76	66.12	17.180		
2,900.00	2,840.28	2,859.28	2,859.28	12.61	57.08	-134.10	881.49	179.59	1,156.83	1,088.33	68.49	16.890		
3,000.00	2,935.77	2,954.77	2,954.77	13.22	59.00	-135.11	881.49	179.59	1,178.15	1,107.29	70.86	16.626		
3,100.00	3,031.27	3,050.27	3,050.27	13.83	60.92	-136.09	881.49	179.59	1,199.83	1,126.60	73.23	16.384		
3,200.00	3,126.76	3,145.76	3,145.76	14.44	62.84	-137.03	881.49	179.59	1,221.84	1,146.25	75.60	16.163		
3,300.00	3,222.26	3,241.26	3,241.26	15.06	64.76	-137.95	881.49	179.59	1,244.17	1,166.22	77.96	15.960		
3,400.00	3,317.75	3,336.75	3,336.75	15.68	66.68	-138.83	881.49	179.59	1,266.81	1,186.50	80.31	15.773		
3,500.00	3,413.25	3,432.25	3,432.25	16.30	68.60	-139.68	881.49	179.59	1,289.73	1,207.06	82.67	15.602		
3,600.00	3,508.74	3,527.74	3,527.74	16.92	70.52	-140.50	881.49	179.59	1,312.92	1,227.90	85.02	15.443		
3,700.00	3,604.23	3,623.23	3,623.23	17.54	72.44	-141.30	881.49	179.59	1,336.37	1,249.00	87.36	15.296		
3,800.00	3,699.73	3,718.73	3,718.73	18.17	74.36	-142.07	881.49	179.59	1,360.06	1,270.35	89.71	15.161		
3,900.00	3,795.22	3,814.22	3,814.22	18.79	76.28	-142.81	881.49	179.59	1,383.98	1,291.93	92.05	15.035		
4,000.00	3,890.72	3,909.72	3,909.72	19.42	78.20	-143.53	881.49	179.59	1,408.12	1,313.74	94.39	14.918		
4,100.00	3,986.21	4,005.21	4,005.21	20.05	80.13	-144.22	881.49	179.59	1,432.47	1,335.75	96.72	14.810		
4,200.00	4,081.70	4,100.70	4,100.70	20.67	82.05	-144.90	881.49	179.59	1,457.02	1,357.96	99.06	14.709		
4,300.00	4,177.20	4,203.80	4,196.20	21.30	84.12	-145.55	881.49	179.59	1,481.76	1,380.21	101.54	14.592		
4,400.00	4,272.69	4,308.31	4,291.69	21.93	86.22	-146.18	881.49	179.59	1,506.67	1,402.62	104.05	14.480		
4,500.00	4,368.19	4,387.19	4,387.19	22.56	87.81	-146.79	881.49	179.59	1,531.75	1,425.71	106.05	14.444		
4,600.00	4,463.68	4,482.68	4,482.68	23.19	89.73	-147.38	881.49	179.59	1,557.00	1,448.63	108.37	14.367		
4,700.00	4,559.17	4,578.17	4,578.17	23.83	91.65	-147.95	881.49	179.59	1,582.40	1,471.70	110.70	14.295		
4,800.00	4,654.67	4,673.67	4,673.67	24.46	93.57	-148.50	881.49	179.59	1,607.94	1,494.92	113.02	14.227		
4,900.00	4,750.16	4,769.16	4,769.16	25.09	95.49	-149.04	881.49	179.59	1,633.63	1,518.29	115.34	14.163		
5,000.00	4,845.66	4,864.66	4,864.66	25.72	97.41	-149.56	881.49	179.59	1,659.45	1,541.79	117.66	14.103		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,960.15	4,960.15	26.36	99.33	-150.07	881.49	179.59	1,685.39	1,565.41	119.98	14.047		
5,200.00	5,036.65	5,055.65	5,055.65	26.99	101.25	-150.56	881.49	179.59	1,711.46	1,589.16	122.30	13.994		
5,300.00	5,132.14	5,151.14	5,151.14	27.63	103.17	-151.03	881.49	179.59	1,737.64	1,613.03	124.62	13.944		
5,400.00	5,227.63	5,246.63	5,246.63	28.26	105.09	-151.50	881.49	179.59	1,763.94	1,637.01	126.93	13.897		
5,500.00	5,323.13	5,342.13	5,342.13	28.90	107.01	-151.95	881.49	179.59	1,790.34	1,661.09	129.25	13.852		
5,600.00	5,418.62	5,437.62	5,437.62	29.53	108.93	-152.38	881.49	179.59	1,816.84	1,685.28	131.56	13.810		
5,700.00	5,514.12	5,533.12	5,533.12	30.17	110.85	-152.81	881.49	179.59	1,843.44	1,709.56	133.88	13.770		
5,800.00	5,609.61	5,628.61	5,628.61	30.80	112.77	-153.22	881.49	179.59	1,870.13	1,733.94	136.19	13.732		
5,900.00	5,705.10	5,724.10	5,724.10	31.44	114.69	-153.62	881.49	179.59	1,896.91	1,758.40	138.50	13.696		
6,000.00	5,800.60	5,819.60	5,819.60	32.08	116.61	-154.01	881.49	179.59	1,923.77	1,782.96	140.81	13.662		
6,100.00	5,896.09	5,915.09	5,915.09	32.71	118.53	-154.39	881.49	179.59	1,950.72	1,807.59	143.13	13.629		
6,200.00	5,991.59	6,010.59	6,010.59	33.35	120.45	-154.75	881.49	179.59	1,977.74	1,832.30	145.44	13.599		
6,300.00	6,087.08	6,106.08	6,106.08	33.99	122.38	-155.11	881.49	179.59	2,004.84	1,857.09	147.75	13.569		
6,400.00	6,182.57	6,201.57	6,201.57	34.62	124.30	-155.46	881.49	179.59	2,032.01	1,881.95	150.06	13.541		
6,499.99	6,278.06	6,302.94	6,297.06	35.26	126.33	-155.80	881.49	179.59	2,059.25	1,906.76	152.49	13.504		
6,505.95	6,283.75	6,302.75	6,302.75	35.30	126.33	-155.82	881.49	179.59	2,060.88	1,908.37	152.51	13.513		
6,600.00	6,374.00	6,407.00	6,393.00	35.88	128.43	-156.32	881.49	179.59	2,085.20	1,930.23	154.97	13.456		
6,700.00	6,470.87	6,489.87	6,489.87	36.44	130.09	-156.78	881.49	179.59	2,108.10	1,951.09	157.01	13.427		
6,800.00	6,568.53	6,587.53	6,587.53	36.96	132.06	-157.16	881.49	179.59	2,127.91	1,968.57	159.34	13.355		
6,900.00	6,666.89	6,685.89	6,685.89	37.43	134.04	-157.48	881.49	179.59	2,144.58	1,982.91	161.67	13.265		
7,000.00	6,765.82	6,784.82	6,784.82	37.85	136.02	-157.73	881.49	179.59	2,158.08	1,994.07	164.01	13.159		
7,100.00	6,865.19	6,884.19	6,884.19	38.22	138.02	-157.92	881.49	179.59	2,168.39	2,002.05	166.34	13.036		
7,200.00	6,964.89	6,983.89	6,983.89	38.55	140.03	-158.05	881.49	179.59	2,175.47	2,006.81	168.67	12.898		
7,300.00	7,064.80	7,083.80	7,083.80	38.83	142.04	-158.12	881.49	179.59	2,179.33	2,008.35	170.99	12.746		
7,369.20	7,134.00	7,153.00	7,153.00	39.00	143.43	-31.13	881.49	179.59	2,180.11	2,007.53	172.58	12.632		
7,400.00	7,164.80	7,183.80	7,183.80	39.06	144.05	-31.13	881.49	179.59	2,180.11	2,006.82	173.29	12.581		
7,469.20	7,234.00	7,253.00	7,253.00	39.22	145.44	-31.13	881.49	179.59	2,180.11	2,005.23	174.88	12.466		
7,500.00	7,264.78	7,283.78	7,283.78	39.29	146.06	149.19	881.49	179.59	2,180.82	2,005.23	175.59	12.420		
7,550.00	7,314.53	7,333.53	7,333.53	39.44	147.06	149.04	881.49	179.59	2,185.00	2,008.25	176.74	12.362		
7,600.00	7,363.66	7,382.66	7,382.66	39.62	148.05	148.75	881.49	179.59	2,192.89	2,015.00	177.89	12.327		
7,650.00	7,411.81	7,430.81	7,430.81	39.82	149.02	148.31	881.49	179.59	2,204.46	2,025.43	179.03	12.314 SF		
7,700.00	7,458.61	7,477.61	7,477.61	40.06	149.96	147.71	881.49	179.59	2,219.63	2,039.50	180.13	12.322		
7,750.00	7,503.69	7,522.69	7,522.69	40.32	150.86	146.91	881.49	179.59	2,238.31	2,057.11	181.20	12.353		
7,800.00	7,546.72	7,565.72	7,565.72	40.60	151.73	145.89	881.49	179.59	2,260.39	2,078.16	182.23	12.404		
7,850.00	7,587.38	7,606.38	7,606.38	40.92	152.55	144.61	881.49	179.59	2,285.73	2,102.53	183.20	12.477		
7,900.00	7,625.34	7,644.34	7,644.34	41.25	153.31	143.01	881.49	179.59	2,314.16	2,130.05	184.10	12.570		
7,950.00	7,660.33	7,679.33	7,679.33	41.61	154.01	141.01	881.49	179.59	2,345.50	2,160.56	184.94	12.683		
8,000.00	7,692.07	7,711.07	7,711.07	42.00	154.65	138.54	881.49	179.59	2,379.53	2,193.83	185.69	12.814		
8,050.00	7,720.33	7,739.33	7,739.33	42.40	155.22	135.45	881.49	179.59	2,416.02	2,229.66	186.37	12.964		
8,100.00	7,744.89	7,763.89	7,763.89	42.83	155.71	131.59	881.49	179.59	2,454.72	2,267.78	186.94	13.131		
8,150.00	7,765.56	7,784.56	7,784.56	43.27	156.13	126.76	881.49	179.59	2,495.35	2,307.92	187.43	13.314		
8,200.00	7,782.18	7,801.18	7,801.18	43.74	156.46	120.74	881.49	179.59	2,537.60	2,349.79	187.81	13.511		
8,250.00	7,794.63	7,813.63	7,813.63	44.22	156.71	113.32	881.49	179.59	2,581.16	2,393.07	188.09	13.723		
8,300.00	7,802.82	7,821.82	7,821.82	44.71	156.88	104.41	881.49	179.59	2,625.71	2,437.45	188.27	13.947		
8,350.00	7,806.68	7,825.68	7,825.68	45.21	156.96	94.18	881.49	179.59	2,670.91	2,482.57	188.34	14.181		
8,369.28	7,807.00	7,826.00	7,826.00	45.40	156.96	90.00	881.49	179.59	2,688.44	2,500.09	188.34	14.274		
8,400.00	7,807.00	7,826.00	7,826.00	45.72	156.96	90.00	881.49	179.59	2,716.42	2,528.08	188.33	14.424		
8,500.00	7,807.00	7,826.00	7,826.00	46.77	156.96	90.00	881.49	179.59	2,807.89	2,619.59	188.30	14.912		
8,600.00	7,807.00	7,826.00	7,826.00	47.86	156.96	90.00	881.49	179.59	2,899.93	2,711.66	188.27	15.403		
8,700.00	7,807.00	7,826.00	7,826.00	48.99	156.96	90.00	881.49	179.59	2,992.48	2,804.23	188.25	15.896		
8,800.00	7,806.99	7,825.99	7,825.99	50.16	156.96	90.00	881.49	179.59	3,085.50	2,897.27	188.23	16.392		
8,900.00	7,806.99	7,825.99	7,825.99	51.37	156.96	90.00	881.49	179.59	3,178.94	2,990.72	188.22	16.890		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,825.99	7,825.99	52.60	156.96	90.00	881.49	179.59	3,272.76	3,084.56	188.20	17.389		
9,100.00	7,806.99	7,825.99	7,825.99	53.87	156.96	90.00	881.49	179.59	3,366.94	3,178.75	188.20	17.891		
9,200.00	7,806.99	7,825.99	7,825.99	55.17	156.96	90.00	881.49	179.59	3,461.45	3,273.26	188.19	18.393		
9,300.00	7,806.99	7,825.99	7,825.99	56.49	156.96	90.00	881.49	179.59	3,556.26	3,368.07	188.19	18.897		
9,400.00	7,806.99	7,825.99	7,825.99	57.83	156.96	90.00	881.49	179.59	3,651.35	3,463.16	188.19	19.402		
9,500.00	7,806.99	7,825.99	7,825.99	59.20	156.96	90.00	881.49	179.59	3,746.69	3,558.50	188.19	19.909		
9,600.00	7,806.98	7,825.98	7,825.98	60.59	156.96	90.00	881.49	179.59	3,842.27	3,654.07	188.20	20.416		
9,700.00	7,806.98	7,825.98	7,825.98	62.00	156.96	90.00	881.49	179.59	3,938.07	3,749.86	188.21	20.924		
9,800.00	7,806.98	7,825.98	7,825.98	63.43	156.96	90.00	881.49	179.59	4,034.07	3,845.85	188.22	21.433		
9,900.00	7,806.98	7,825.98	7,825.98	64.87	156.96	90.00	881.49	179.59	4,130.26	3,942.03	188.23	21.943		
10,000.00	7,806.98	7,825.98	7,825.98	66.34	156.96	90.00	881.49	179.59	4,226.63	4,038.39	188.24	22.453		
10,100.00	7,806.98	7,825.98	7,825.98	67.81	156.96	90.00	881.49	179.59	4,323.16	4,134.91	188.26	22.964		
10,200.00	7,806.98	7,825.98	7,825.98	69.30	156.96	90.00	881.49	179.59	4,419.85	4,231.58	188.27	23.476		
10,300.00	7,806.98	7,825.98	7,825.98	70.81	156.96	90.00	881.49	179.59	4,516.68	4,328.39	188.29	23.988		
10,400.00	7,806.97	7,825.97	7,825.97	72.32	156.96	90.00	881.49	179.59	4,613.65	4,425.34	188.31	24.500		
10,500.00	7,806.97	7,825.97	7,825.97	73.85	156.96	90.00	881.49	179.59	4,710.74	4,522.41	188.34	25.013		
10,600.00	7,806.97	7,825.97	7,825.97	75.39	156.96	90.00	881.49	179.59	4,807.96	4,619.60	188.36	25.526		
10,700.00	7,806.97	7,825.97	7,825.97	76.94	156.96	90.00	881.49	179.59	4,905.28	4,716.90	188.38	26.039		
10,800.00	7,806.97	7,825.97	7,825.97	78.49	156.96	90.00	881.49	179.59	5,002.71	4,814.30	188.41	26.552		
10,900.00	7,806.97	7,825.97	7,825.97	80.06	156.96	90.00	881.49	179.59	5,100.24	4,911.81	188.44	27.066		
11,000.00	7,806.97	7,825.97	7,825.97	81.64	156.96	90.00	881.49	179.59	5,197.87	5,009.40	188.47	27.580		
11,100.00	7,806.97	7,825.97	7,825.97	83.22	156.96	90.00	881.49	179.59	5,295.58	5,107.08	188.50	28.094		
11,200.00	7,806.96	7,825.96	7,825.96	84.81	156.96	90.00	881.49	179.59	5,393.38	5,204.85	188.53	28.608		
11,300.00	7,806.96	7,825.96	7,825.96	86.41	156.96	90.00	881.49	179.59	5,491.25	5,302.69	188.56	29.122		
11,400.00	7,806.96	7,825.96	7,825.96	88.01	156.96	90.00	881.49	179.59	5,589.20	5,400.61	188.59	29.636		
11,500.00	7,806.96	7,825.96	7,825.96	89.63	156.96	90.00	881.49	179.59	5,687.23	5,498.60	188.63	30.151		
11,600.00	7,806.96	7,825.96	7,825.96	91.24	156.96	90.00	881.49	179.59	5,785.32	5,596.65	188.66	30.665		
11,700.00	7,806.96	7,825.96	7,825.96	92.87	156.96	90.00	881.49	179.59	5,883.47	5,694.77	188.70	31.179		
11,800.00	7,806.96	7,825.96	7,825.96	94.49	156.96	90.00	881.49	179.59	5,981.69	5,792.95	188.74	31.693		
11,900.00	7,806.95	7,825.95	7,825.95	96.13	156.96	90.00	881.49	179.59	6,079.96	5,891.18	188.78	32.207		
12,000.00	7,806.95	7,825.95	7,825.95	97.77	156.96	90.00	881.49	179.59	6,178.29	5,989.47	188.82	32.721		
12,100.00	7,806.95	7,825.95	7,825.95	99.41	156.96	90.00	881.49	179.59	6,276.67	6,087.81	188.86	33.235		
12,200.00	7,806.95	7,825.95	7,825.95	101.06	156.96	90.00	881.49	179.59	6,375.10	6,186.20	188.90	33.749		
12,300.00	7,806.95	7,825.95	7,825.95	102.71	156.96	90.00	881.49	179.59	6,473.58	6,284.64	188.94	34.262		
12,400.00	7,806.95	7,825.95	7,825.95	104.37	156.96	90.00	881.49	179.59	6,572.11	6,383.12	188.99	34.776		
12,500.00	7,806.95	7,825.95	7,825.95	106.02	156.96	90.00	881.49	179.59	6,670.68	6,481.65	189.03	35.289		
12,600.00	7,806.95	7,825.95	7,825.95	107.69	156.96	90.00	881.49	179.59	6,769.29	6,580.22	189.08	35.802		
12,700.00	7,806.94	7,825.94	7,825.94	109.35	156.96	90.00	881.49	179.59	6,867.94	6,678.82	189.12	36.315		
12,800.00	7,806.94	7,825.94	7,825.94	111.02	156.96	90.00	881.49	179.59	6,966.63	6,777.46	189.17	36.827		
12,900.00	7,806.94	7,825.94	7,825.94	112.70	156.96	90.00	881.49	179.59	7,065.36	6,876.14	189.22	37.340		
13,000.00	7,806.94	7,825.94	7,825.94	114.37	156.96	90.00	881.49	179.59	7,164.12	6,974.86	189.27	37.852		
13,100.00	7,806.94	7,825.94	7,825.94	116.05	156.96	90.00	881.49	179.59	7,262.92	7,073.60	189.32	38.364		
13,200.00	7,806.94	7,825.94	7,825.94	117.74	156.96	90.00	881.49	179.59	7,361.75	7,172.38	189.37	38.875		
13,300.00	7,806.94	7,825.94	7,825.94	119.42	156.96	90.00	881.49	179.59	7,460.61	7,271.19	189.42	39.386		
13,400.00	7,806.94	7,825.94	7,825.94	121.11	156.96	90.00	881.49	179.59	7,559.50	7,370.03	189.47	39.897		
13,500.00	7,806.93	7,825.93	7,825.93	122.80	156.96	90.00	881.49	179.59	7,658.42	7,468.89	189.53	40.408		
13,600.00	7,806.93	7,825.93	7,825.93	124.49	156.96	89.99	881.49	179.59	7,757.37	7,567.79	189.58	40.918		
13,700.00	7,806.93	7,825.93	7,825.93	126.18	156.96	89.99	881.49	179.59	7,856.34	7,666.70	189.64	41.428		
13,800.00	7,806.93	7,825.93	7,825.93	127.88	156.96	89.99	881.49	179.59	7,955.34	7,765.65	189.69	41.938		
13,900.00	7,806.93	7,825.93	7,825.93	129.58	156.96	89.99	881.49	179.59	8,054.36	7,864.61	189.75	42.447		
14,000.00	7,806.93	7,825.93	7,825.93	131.28	156.96	89.99	881.49	179.59	8,153.41	7,963.60	189.81	42.956		
14,100.00	7,806.93	7,825.93	7,825.93	132.98	156.96	89.99	881.49	179.59	8,252.48	8,062.62	189.86	43.465		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	7,806.93	7,825.93	7,825.93	134.68	156.96	89.99	881.49	179.59	8,351.57	8,161.65	189.92	43.973	
14,300.00	7,806.92	7,825.92	7,825.92	136.39	156.96	89.99	881.49	179.59	8,450.69	8,260.70	189.98	44.481	
14,400.00	7,806.92	7,825.92	7,825.92	138.10	156.96	89.99	881.49	179.59	8,549.82	8,359.78	190.04	44.989	
14,500.00	7,806.92	7,825.92	7,825.92	139.81	156.96	89.99	881.49	179.59	8,648.98	8,458.87	190.11	45.496	
14,600.00	7,806.92	7,825.92	7,825.92	141.52	156.96	89.99	881.49	179.59	8,748.15	8,557.98	190.17	46.002	
14,700.00	7,806.92	7,825.92	7,825.92	143.23	156.96	89.99	881.49	179.59	8,847.34	8,657.11	190.23	46.509	
14,800.00	7,806.92	7,825.92	7,825.92	144.94	156.96	89.99	881.49	179.59	8,946.55	8,756.26	190.29	47.014	
14,900.00	7,806.92	7,825.92	7,825.92	146.66	156.96	89.99	881.49	179.59	9,045.78	8,855.42	190.36	47.520	
15,000.00	7,806.92	7,825.92	7,825.92	148.37	156.96	89.99	881.49	179.59	9,145.03	8,954.60	190.42	48.025	
15,100.00	7,806.91	7,825.91	7,825.91	150.09	156.96	89.99	881.49	179.59	9,244.29	9,053.80	190.49	48.529	
15,200.00	7,806.91	7,825.91	7,825.91	151.81	156.96	89.99	881.49	179.59	9,343.57	9,153.01	190.56	49.033	
15,300.00	7,806.91	7,825.91	7,825.91	153.53	156.96	89.99	881.49	179.59	9,442.86	9,252.23	190.62	49.537	
15,400.00	7,806.91	7,825.91	7,825.91	155.25	156.96	89.99	881.49	179.59	9,542.16	9,351.47	190.69	50.040	
15,500.00	7,806.91	7,825.91	7,825.91	156.97	156.96	89.99	881.49	179.59	9,641.49	9,450.73	190.76	50.543	
15,600.00	7,806.91	7,825.91	7,825.91	158.70	156.96	89.99	881.49	179.59	9,740.82	9,549.99	190.83	51.045	
15,700.00	7,806.91	7,825.91	7,825.91	160.42	156.96	89.99	881.49	179.59	9,840.17	9,649.27	190.90	51.547	
15,800.00	7,806.91	7,825.91	7,825.91	162.15	156.96	89.99	881.49	179.59	9,939.53	9,748.56	190.97	52.048	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	8.00	-8.00	0.00	0.09	-71.25	904.58	-2,664.52	2,813.88					
100.00	100.00	108.00	92.00	0.13	1.34	-71.25	904.58	-2,664.52	2,813.88	2,812.41	1.48	1,905.658		
200.00	200.00	208.00	192.00	0.49	3.62	-71.25	904.58	-2,664.52	2,813.88	2,809.77	4.12	683.633		
300.00	300.00	308.00	292.00	0.85	5.70	-71.25	904.58	-2,664.52	2,813.88	2,807.33	6.55	429.560		
400.00	400.00	408.00	392.00	1.21	7.74	-71.25	904.58	-2,664.52	2,813.88	2,804.93	8.95	314.387		
500.00	500.00	508.00	492.00	1.57	9.77	-71.25	904.58	-2,664.52	2,813.88	2,802.55	11.34	248.193		
600.00	600.00	608.00	592.00	1.93	11.79	-71.25	904.58	-2,664.52	2,813.88	2,800.17	13.72	205.117		
700.00	700.00	708.00	692.00	2.29	13.81	-71.25	904.58	-2,664.52	2,813.88	2,797.79	16.10	174.818		
800.00	800.00	808.00	792.00	2.64	15.83	-71.25	904.58	-2,664.52	2,813.88	2,795.41	18.47	152.336		
900.00	900.00	908.00	892.00	3.00	17.84	-71.25	904.58	-2,664.52	2,813.88	2,793.04	20.85	134.986		
1,000.00	1,000.00	1,008.00	992.00	3.36	19.86	-71.25	904.58	-2,664.52	2,813.88	2,790.67	23.22	121.190 CC		
1,100.00	1,099.98	1,108.02	1,091.98	3.71	21.87	161.75	904.58	-2,664.52	2,815.54	2,789.96	25.58	110.078 ES		
1,200.00	1,199.84	1,208.16	1,191.84	4.04	23.89	161.75	904.58	-2,664.52	2,820.51	2,792.58	27.93	100.989		
1,300.00	1,299.45	1,308.55	1,291.45	4.39	25.91	161.75	904.58	-2,664.52	2,828.79	2,798.50	30.29	93.391		
1,400.00	1,398.70	1,409.30	1,390.70	4.74	27.94	161.76	904.58	-2,664.52	2,840.37	2,807.71	32.66	86.964		
1,500.00	1,497.47	1,489.47	1,489.47	5.12	29.55	161.76	904.58	-2,664.52	2,855.25	2,820.63	34.62	82.466		
1,600.00	1,595.62	1,587.62	1,587.62	5.51	31.53	161.76	904.58	-2,664.52	2,873.40	2,836.45	36.95	77.761		
1,700.00	1,693.06	1,685.06	1,685.06	5.94	33.49	161.77	904.58	-2,664.52	2,894.82	2,855.55	39.27	73.715		
1,800.00	1,789.64	1,781.64	1,781.64	6.39	35.43	161.77	904.58	-2,664.52	2,919.48	2,877.91	41.58	70.217		
1,863.26	1,850.25	1,842.25	1,842.25	6.70	36.65	161.76	904.58	-2,664.52	2,936.75	2,893.72	43.03	68.246		
1,900.00	1,885.34	1,877.34	1,877.34	6.89	37.36	161.83	904.58	-2,664.52	2,947.15	2,903.28	43.87	67.173		
2,000.00	1,980.83	1,972.83	1,972.83	7.41	39.28	162.01	904.58	-2,664.52	2,975.49	2,929.32	46.16	64.454		
2,100.00	2,076.33	2,068.33	2,068.33	7.95	41.20	162.18	904.58	-2,664.52	3,003.85	2,955.39	48.46	61.985		
2,200.00	2,171.82	2,163.82	2,163.82	8.50	43.12	162.35	904.58	-2,664.52	3,032.23	2,981.47	50.76	59.734		
2,300.00	2,267.32	2,259.32	2,259.32	9.07	45.04	162.52	904.58	-2,664.52	3,060.65	3,007.58	53.07	57.675		
2,400.00	2,362.81	2,354.81	2,354.81	9.64	46.96	162.69	904.58	-2,664.52	3,089.08	3,033.70	55.38	55.784		
2,500.00	2,458.30	2,450.30	2,450.30	10.22	48.88	162.85	904.58	-2,664.52	3,117.54	3,059.85	57.69	54.043		
2,600.00	2,553.80	2,545.80	2,545.80	10.81	50.80	163.01	904.58	-2,664.52	3,146.02	3,086.02	60.00	52.434		
2,700.00	2,649.29	2,641.29	2,641.29	11.41	52.72	163.16	904.58	-2,664.52	3,174.52	3,112.20	62.32	50.943		
2,800.00	2,744.79	2,736.79	2,736.79	12.01	54.64	163.32	904.58	-2,664.52	3,203.04	3,138.41	64.63	49.558		
2,900.00	2,840.28	2,832.28	2,832.28	12.61	56.56	163.47	904.58	-2,664.52	3,231.59	3,164.63	66.95	48.268		
3,000.00	2,935.77	2,927.77	2,927.77	13.22	58.49	163.61	904.58	-2,664.52	3,260.15	3,190.88	69.27	47.064		
3,100.00	3,031.27	3,023.27	3,023.27	13.83	60.41	163.76	904.58	-2,664.52	3,288.73	3,217.14	71.59	45.937		
3,200.00	3,126.76	3,118.76	3,118.76	14.44	62.33	163.90	904.58	-2,664.52	3,317.34	3,243.42	73.91	44.882		
3,300.00	3,222.26	3,214.26	3,214.26	15.06	64.25	164.04	904.58	-2,664.52	3,345.96	3,269.72	76.24	43.890		
3,400.00	3,317.75	3,309.75	3,309.75	15.68	66.17	164.18	904.58	-2,664.52	3,374.60	3,296.04	78.56	42.957		
3,500.00	3,413.25	3,405.25	3,405.25	16.30	68.09	164.32	904.58	-2,664.52	3,403.26	3,322.38	80.88	42.077		
3,600.00	3,508.74	3,500.74	3,500.74	16.92	70.01	164.45	904.58	-2,664.52	3,431.93	3,348.73	83.21	41.246		
3,700.00	3,604.23	3,603.77	3,596.23	17.54	72.08	164.58	904.58	-2,664.52	3,460.63	3,374.94	85.68	40.389		
3,800.00	3,699.73	3,708.27	3,691.73	18.17	74.18	164.71	904.58	-2,664.52	3,489.34	3,401.15	88.19	39.567		
3,900.00	3,795.22	3,787.22	3,787.22	18.79	75.77	164.84	904.58	-2,664.52	3,518.06	3,427.88	90.18	39.012		
4,000.00	3,890.72	3,882.72	3,882.72	19.42	77.69	164.96	904.58	-2,664.52	3,546.80	3,454.30	92.50	38.342		
4,100.00	3,986.21	3,978.21	3,978.21	20.05	79.61	165.09	904.58	-2,664.52	3,575.56	3,480.73	94.83	37.705		
4,200.00	4,081.70	4,073.70	4,073.70	20.67	81.53	165.21	904.58	-2,664.52	3,604.33	3,507.17	97.15	37.099		
4,300.00	4,177.20	4,169.20	4,169.20	21.30	83.45	165.33	904.58	-2,664.52	3,633.11	3,533.63	99.48	36.521		
4,400.00	4,272.69	4,264.69	4,264.69	21.93	85.37	165.44	904.58	-2,664.52	3,661.91	3,560.11	101.81	35.970		
4,500.00	4,368.19	4,360.19	4,360.19	22.56	87.29	165.56	904.58	-2,664.52	3,690.73	3,586.60	104.13	35.443		
4,600.00	4,463.68	4,455.68	4,455.68	23.19	89.21	165.67	904.58	-2,664.52	3,719.56	3,613.10	106.46	34.939		
4,700.00	4,559.17	4,551.17	4,551.17	23.83	91.14	165.78	904.58	-2,664.52	3,748.40	3,639.61	108.78	34.458		
4,800.00	4,654.67	4,646.67	4,646.67	24.46	93.06	165.89	904.58	-2,664.52	3,777.25	3,666.14	111.11	33.996		
4,900.00	4,750.16	4,742.16	4,742.16	25.09	94.98	166.00	904.58	-2,664.52	3,806.12	3,692.68	113.43	33.553		
5,000.00	4,845.66	4,837.66	4,837.66	25.72	96.90	166.11	904.58	-2,664.52	3,835.00	3,719.24	115.76	33.129		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,933.15	4,933.15	26.36	98.82	166.22	904.58	-2,664.52	3,863.89	3,745.80	118.09	32.721		
5,200.00	5,036.65	5,028.65	5,028.65	26.99	100.74	166.32	904.58	-2,664.52	3,892.79	3,772.38	120.41	32.329		
5,300.00	5,132.14	5,124.14	5,124.14	27.63	102.66	166.42	904.58	-2,664.52	3,921.70	3,798.97	122.74	31.952		
5,400.00	5,227.63	5,219.63	5,219.63	28.26	104.58	166.52	904.58	-2,664.52	3,950.63	3,825.57	125.06	31.589		
5,500.00	5,323.13	5,315.13	5,315.13	28.90	106.50	166.62	904.58	-2,664.52	3,979.57	3,852.18	127.39	31.240		
5,600.00	5,418.62	5,410.62	5,410.62	29.53	108.42	166.72	904.58	-2,664.52	4,008.52	3,878.80	129.71	30.903		
5,700.00	5,514.12	5,506.12	5,506.12	30.17	110.34	166.82	904.58	-2,664.52	4,037.47	3,905.43	132.04	30.578		
5,800.00	5,609.61	5,601.61	5,601.61	30.80	112.26	166.91	904.58	-2,664.52	4,066.44	3,932.08	134.37	30.264		
5,900.00	5,705.10	5,702.90	5,697.10	31.44	114.30	167.01	904.58	-2,664.52	4,095.42	3,958.61	136.81	29.936		
6,000.00	5,800.60	5,807.40	5,792.60	32.08	116.40	167.10	904.58	-2,664.52	4,124.41	3,985.10	139.31	29.605		
6,100.00	5,896.09	5,888.09	5,888.09	32.71	118.02	167.19	904.58	-2,664.52	4,153.41	4,012.07	141.34	29.385		
6,200.00	5,991.59	5,983.59	5,983.59	33.35	119.94	167.28	904.58	-2,664.52	4,182.42	4,038.75	143.67	29.112		
6,300.00	6,087.08	6,079.08	6,079.08	33.99	121.86	167.37	904.58	-2,664.52	4,211.44	4,065.44	145.99	28.847		
6,400.00	6,182.57	6,174.57	6,174.57	34.62	123.78	167.46	904.58	-2,664.52	4,240.46	4,092.14	148.32	28.590		
6,499.99	6,278.06	6,270.06	6,270.06	35.26	125.70	167.54	904.58	-2,664.52	4,269.49	4,118.85	150.64	28.341		
6,505.95	6,283.75	6,275.75	6,275.75	35.30	125.82	167.55	904.58	-2,664.52	4,271.22	4,120.44	150.78	28.327		
6,600.00	6,374.00	6,366.00	6,366.00	35.88	127.63	167.74	904.58	-2,664.52	4,297.09	4,144.12	152.98	28.090		
6,700.00	6,470.87	6,462.87	6,462.87	36.44	129.58	167.91	904.58	-2,664.52	4,321.41	4,166.10	155.31	27.824		
6,800.00	6,568.53	6,560.53	6,560.53	36.96	131.54	168.06	904.58	-2,664.52	4,342.41	4,184.75	157.66	27.543		
6,900.00	6,666.89	6,658.89	6,658.89	37.43	133.52	168.18	904.58	-2,664.52	4,360.06	4,200.04	160.01	27.248		
7,000.00	6,765.82	6,757.82	6,757.82	37.85	135.51	168.28	904.58	-2,664.52	4,374.34	4,211.97	162.36	26.941		
7,100.00	6,865.19	6,857.19	6,857.19	38.22	137.51	168.36	904.58	-2,664.52	4,385.23	4,220.52	164.71	26.623		
7,200.00	6,964.89	6,956.89	6,956.89	38.55	139.52	168.41	904.58	-2,664.52	4,392.72	4,225.66	167.06	26.295		
7,300.00	7,064.80	7,056.80	7,056.80	38.83	141.52	168.43	904.58	-2,664.52	4,396.79	4,227.40	169.39	25.956		
7,369.20	7,134.00	7,126.00	7,126.00	39.00	142.92	-64.56	904.58	-2,664.52	4,397.61	4,226.61	171.00	25.718		
7,400.00	7,164.80	7,156.80	7,156.80	39.06	143.54	-64.56	904.58	-2,664.52	4,397.61	4,225.91	171.71	25.611		
7,469.20	7,234.00	7,226.00	7,226.00	39.22	144.93	-64.56	904.58	-2,664.52	4,397.61	4,224.31	173.30	25.376		
7,500.00	7,264.78	7,256.78	7,256.78	39.29	145.55	115.77	904.58	-2,664.52	4,397.97	4,223.96	174.01	25.274		
7,550.00	7,314.53	7,306.53	7,306.53	39.44	146.55	115.63	904.58	-2,664.52	4,400.09	4,224.91	175.18	25.117		
7,600.00	7,363.66	7,355.66	7,355.66	39.62	147.53	115.37	904.58	-2,664.52	4,404.10	4,227.75	176.35	24.974		
7,650.00	7,411.81	7,403.81	7,403.81	39.82	148.50	114.99	904.58	-2,664.52	4,409.99	4,232.48	177.51	24.844		
7,700.00	7,458.61	7,450.61	7,450.61	40.06	149.44	114.47	904.58	-2,664.52	4,417.75	4,239.10	178.65	24.728		
7,750.00	7,503.69	7,504.31	7,495.69	40.32	150.52	113.81	904.58	-2,664.52	4,427.37	4,247.42	179.94	24.604		
7,800.00	7,546.72	7,538.72	7,538.72	40.60	151.22	113.00	904.58	-2,664.52	4,438.80	4,257.95	180.85	24.544		
7,850.00	7,587.38	7,579.38	7,579.38	40.92	152.03	112.03	904.58	-2,664.52	4,452.02	4,270.12	181.89	24.476		
7,900.00	7,625.34	7,617.34	7,617.34	41.25	152.80	110.88	904.58	-2,664.52	4,466.97	4,284.09	182.88	24.425		
7,950.00	7,660.33	7,652.33	7,652.33	41.61	153.50	109.54	904.58	-2,664.52	4,483.61	4,299.80	183.81	24.392		
8,000.00	7,692.07	7,684.07	7,684.07	42.00	154.14	108.00	904.58	-2,664.52	4,501.85	4,317.17	184.68	24.377 SF		
8,050.00	7,720.33	7,712.33	7,712.33	42.40	154.71	106.25	904.58	-2,664.52	4,521.61	4,336.14	185.47	24.379		
8,100.00	7,744.89	7,736.89	7,736.89	42.83	155.20	104.29	904.58	-2,664.52	4,542.79	4,356.61	186.19	24.399		
8,150.00	7,765.56	7,757.56	7,757.56	43.27	155.62	102.09	904.58	-2,664.52	4,565.27	4,378.45	186.82	24.437		
8,200.00	7,782.18	7,774.18	7,774.18	43.74	155.95	99.68	904.58	-2,664.52	4,588.92	4,401.56	187.36	24.492		
8,250.00	7,794.63	7,786.63	7,786.63	44.22	156.20	97.04	904.58	-2,664.52	4,613.57	4,425.76	187.81	24.565		
8,300.00	7,802.82	7,805.18	7,794.82	44.71	156.57	94.21	904.58	-2,664.52	4,639.07	4,450.70	188.37	24.627		
8,350.00	7,806.68	7,801.32	7,798.68	45.21	156.50	91.20	904.58	-2,664.52	4,665.23	4,476.76	188.47	24.753		
8,369.28	7,807.00	7,801.00	7,799.00	45.40	156.49	90.00	904.58	-2,664.52	4,675.45	4,486.93	188.53	24.800		
8,400.00	7,807.00	7,801.00	7,799.00	45.72	156.49	90.00	904.58	-2,664.52	4,691.86	4,503.24	188.63	24.874		
8,500.00	7,807.00	7,801.00	7,799.00	46.77	156.49	90.00	904.58	-2,664.52	4,746.26	4,557.29	188.97	25.117		
8,600.00	7,807.00	7,801.00	7,799.00	47.86	156.49	90.00	904.58	-2,664.52	4,802.12	4,612.80	189.32	25.365		
8,700.00	7,807.00	7,801.00	7,799.00	48.99	156.49	90.00	904.58	-2,664.52	4,859.40	4,669.71	189.68	25.618		
8,800.00	7,806.99	7,801.01	7,798.99	50.16	156.49	90.00	904.58	-2,664.52	4,918.04	4,727.98	190.06	25.877		
8,900.00	7,806.99	7,801.01	7,798.99	51.37	156.49	90.00	904.58	-2,664.52	4,978.00	4,787.57	190.44	26.140		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,801.01	7,798.99	52.60	156.49	90.00	904.58	-2,664.52	5,039.23	4,848.41	190.82	26.408		
9,100.00	7,806.99	7,801.01	7,798.99	53.87	156.49	90.00	904.58	-2,664.52	5,101.69	4,910.49	191.21	26.682		
9,200.00	7,806.99	7,801.01	7,798.99	55.17	156.49	90.00	904.58	-2,664.52	5,165.33	4,973.74	191.59	26.960		
9,300.00	7,806.99	7,801.01	7,798.99	56.49	156.49	90.00	904.58	-2,664.52	5,230.11	5,038.12	191.98	27.242		
9,400.00	7,806.99	7,801.01	7,798.99	57.83	156.49	90.00	904.58	-2,664.52	5,295.98	5,103.61	192.37	27.530		
9,500.00	7,806.99	7,801.01	7,798.99	59.20	156.49	90.00	904.58	-2,664.52	5,362.91	5,170.15	192.76	27.822		
9,600.00	7,806.98	7,801.02	7,798.98	60.59	156.49	90.00	904.58	-2,664.52	5,430.85	5,237.71	193.15	28.118		
9,700.00	7,806.98	7,801.02	7,798.98	62.00	156.49	90.00	904.58	-2,664.52	5,499.78	5,306.25	193.53	28.418		
9,800.00	7,806.98	7,801.02	7,798.98	63.43	156.49	90.00	904.58	-2,664.52	5,569.64	5,375.74	193.91	28.723		
9,900.00	7,806.98	7,801.02	7,798.98	64.87	156.49	90.00	904.58	-2,664.52	5,640.42	5,446.14	194.28	29.032		
10,000.00	7,806.98	7,801.02	7,798.98	66.34	156.49	90.00	904.58	-2,664.52	5,712.07	5,517.41	194.65	29.345		
10,100.00	7,806.98	7,801.02	7,798.98	67.81	156.49	90.00	904.58	-2,664.52	5,784.56	5,589.54	195.02	29.662		
10,200.00	7,806.98	7,801.02	7,798.98	69.30	156.49	90.00	904.58	-2,664.52	5,857.86	5,662.48	195.38	29.982		
10,300.00	7,806.98	7,801.02	7,798.98	70.81	156.49	90.00	904.58	-2,664.52	5,931.94	5,736.20	195.73	30.306		
10,400.00	7,806.97	7,801.03	7,798.97	72.32	156.49	90.00	904.58	-2,664.52	6,006.77	5,810.69	196.08	30.634		
10,500.00	7,806.97	7,801.03	7,798.97	73.85	156.49	90.00	904.58	-2,664.52	6,082.32	5,885.90	196.42	30.965		
10,600.00	7,806.97	7,801.03	7,798.97	75.39	156.49	90.00	904.58	-2,664.52	6,158.57	5,961.81	196.76	31.300		
10,700.00	7,806.97	7,801.03	7,798.97	76.94	156.49	90.00	904.58	-2,664.52	6,235.49	6,038.40	197.09	31.637		
10,800.00	7,806.97	7,801.03	7,798.97	78.49	156.49	90.00	904.58	-2,664.52	6,313.06	6,115.65	197.42	31.978		
10,900.00	7,806.97	7,801.03	7,798.97	80.06	156.49	90.00	904.58	-2,664.52	6,391.26	6,193.52	197.74	32.322		
11,000.00	7,806.97	7,801.03	7,798.97	81.64	156.49	90.00	904.58	-2,664.52	6,470.05	6,272.00	198.05	32.669		
11,100.00	7,806.97	7,801.04	7,798.97	83.22	156.49	90.00	904.58	-2,664.52	6,549.42	6,351.06	198.36	33.018		
11,200.00	7,806.96	7,801.04	7,798.96	84.81	156.49	90.00	904.58	-2,664.52	6,629.35	6,430.69	198.66	33.371		
11,300.00	7,806.96	7,801.04	7,798.96	86.41	156.49	90.00	904.58	-2,664.52	6,709.82	6,510.87	198.95	33.725		
11,400.00	7,806.96	7,801.04	7,798.96	88.01	156.49	90.00	904.58	-2,664.52	6,790.81	6,591.56	199.24	34.083		
11,500.00	7,806.96	7,801.04	7,798.96	89.63	156.49	90.00	904.58	-2,664.52	6,872.30	6,672.77	199.53	34.443		
11,600.00	7,806.96	7,801.04	7,798.96	91.24	156.49	90.00	904.58	-2,664.52	6,954.27	6,754.46	199.81	34.805		
11,700.00	7,806.96	7,801.04	7,798.96	92.87	156.49	90.00	904.58	-2,664.52	7,036.71	6,836.63	200.08	35.170		
11,800.00	7,806.96	7,801.04	7,798.96	94.49	156.49	90.00	904.58	-2,664.52	7,119.59	6,919.25	200.35	35.536		
11,900.00	7,806.95	7,801.05	7,798.95	96.13	156.49	90.00	904.58	-2,664.52	7,202.92	7,002.31	200.61	35.905		
12,000.00	7,806.95	7,801.05	7,798.95	97.77	156.49	90.00	904.58	-2,664.52	7,286.66	7,085.79	200.87	36.276		
12,100.00	7,806.95	7,801.05	7,798.95	99.41	156.49	90.00	904.58	-2,664.52	7,370.81	7,169.69	201.12	36.649		
12,200.00	7,806.95	7,801.05	7,798.95	101.06	156.49	90.00	904.58	-2,664.52	7,455.34	7,253.98	201.37	37.024		
12,300.00	7,806.95	7,801.05	7,798.95	102.71	156.49	90.00	904.58	-2,664.52	7,540.26	7,338.65	201.61	37.400		
12,400.00	7,806.95	7,801.05	7,798.95	104.37	156.49	90.00	904.58	-2,664.52	7,625.54	7,423.70	201.85	37.779		
12,500.00	7,806.95	7,801.05	7,798.95	106.02	156.49	90.00	904.58	-2,664.52	7,711.18	7,509.10	202.08	38.159		
12,600.00	7,806.95	7,801.05	7,798.95	107.69	156.49	90.00	904.58	-2,664.52	7,797.16	7,594.85	202.31	38.541		
12,700.00	7,806.94	7,801.06	7,798.94	109.35	156.49	90.00	904.58	-2,664.52	7,883.47	7,680.93	202.53	38.924		
12,800.00	7,806.94	7,801.06	7,798.94	111.02	156.49	90.00	904.58	-2,664.52	7,970.10	7,767.34	202.75	39.309		
12,900.00	7,806.94	7,801.06	7,798.94	112.70	156.49	90.00	904.58	-2,664.52	8,057.04	7,854.07	202.97	39.696		
13,000.00	7,806.94	7,801.06	7,798.94	114.37	156.49	90.00	904.58	-2,664.52	8,144.28	7,941.09	203.18	40.083		
13,100.00	7,806.94	7,801.06	7,798.94	116.05	156.49	90.00	904.58	-2,664.52	8,231.80	8,028.41	203.39	40.473		
13,200.00	7,806.94	7,801.06	7,798.94	117.74	156.49	90.00	904.58	-2,664.52	8,319.61	8,116.02	203.60	40.863		
13,300.00	7,806.94	7,801.06	7,798.94	119.42	156.49	90.00	904.58	-2,664.52	8,407.70	8,203.90	203.80	41.255		
13,400.00	7,806.94	7,801.06	7,798.94	121.11	156.49	90.00	904.58	-2,664.52	8,496.04	8,292.05	204.00	41.648		
13,500.00	7,806.93	7,801.07	7,798.93	122.80	156.49	90.00	904.58	-2,664.52	8,584.65	8,380.45	204.19	42.042		
13,600.00	7,806.93	7,801.07	7,798.93	124.49	156.49	90.00	904.58	-2,664.52	8,673.50	8,469.11	204.38	42.437		
13,700.00	7,806.93	7,801.07	7,798.93	126.18	156.49	90.00	904.58	-2,664.52	8,762.59	8,558.01	204.57	42.834		
13,800.00	7,806.93	7,801.07	7,798.93	127.88	156.49	90.00	904.58	-2,664.52	8,851.91	8,647.15	204.76	43.231		
13,900.00	7,806.93	7,801.07	7,798.93	129.58	156.49	90.00	904.58	-2,664.52	8,941.46	8,736.52	204.94	43.630		
14,000.00	7,806.93	7,801.07	7,798.93	131.28	156.49	90.00	904.58	-2,664.52	9,031.23	8,826.11	205.12	44.029		
14,100.00	7,806.93	7,801.07	7,798.93	132.98	156.49	90.00	904.58	-2,664.52	9,121.21	8,915.91	205.30	44.430		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	7,806.93	7,801.07	7,798.93	134.68	156.49	90.00	904.58	-2,664.52	9,211.40	9,005.93	205.47	44.831	
14,300.00	7,806.92	7,801.08	7,798.92	136.39	156.49	90.00	904.58	-2,664.52	9,301.79	9,096.15	205.64	45.233	
14,400.00	7,806.92	7,801.08	7,798.92	138.10	156.49	90.00	904.58	-2,664.52	9,392.37	9,186.56	205.81	45.636	
14,500.00	7,806.92	7,801.08	7,798.92	139.81	156.49	90.00	904.58	-2,664.52	9,483.14	9,277.17	205.98	46.040	
14,600.00	7,806.92	7,801.08	7,798.92	141.52	156.49	90.00	904.58	-2,664.52	9,574.10	9,367.96	206.14	46.445	
14,700.00	7,806.92	7,801.08	7,798.92	143.23	156.49	90.00	904.58	-2,664.52	9,665.23	9,458.93	206.30	46.850	
14,800.00	7,806.92	7,801.08	7,798.92	144.94	156.49	90.00	904.58	-2,664.52	9,756.54	9,550.08	206.46	47.256	
14,900.00	7,806.92	7,801.08	7,798.92	146.66	156.49	90.00	904.58	-2,664.52	9,848.02	9,641.40	206.62	47.663	
15,000.00	7,806.92	7,801.09	7,798.92	148.37	156.49	90.00	904.58	-2,664.52	9,939.66	9,732.89	206.77	48.070	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	16.00	16.00	0.00	0.19	108.29	-493.24	1,492.36	1,571.76					
100.00	100.00	116.00	116.00	0.13	1.53	108.29	-493.24	1,492.36	1,571.76	1,570.10	1.66	946.570		
200.00	200.00	216.00	216.00	0.49	3.79	108.29	-493.24	1,492.36	1,571.76	1,567.48	4.28	367.028		
300.00	300.00	316.00	316.00	0.85	5.86	108.29	-493.24	1,492.36	1,571.76	1,565.05	6.71	234.102		
400.00	400.00	416.00	416.00	1.21	7.90	108.29	-493.24	1,492.36	1,571.76	1,562.65	9.11	172.480		
500.00	500.00	516.00	516.00	1.57	9.93	108.29	-493.24	1,492.36	1,571.76	1,560.26	11.50	136.683		
600.00	600.00	616.00	616.00	1.93	11.95	108.29	-493.24	1,492.36	1,571.76	1,557.88	13.88	113.239		
700.00	700.00	716.00	716.00	2.29	13.97	108.29	-493.24	1,492.36	1,571.76	1,555.50	16.26	96.679		
800.00	800.00	816.00	816.00	2.64	15.99	108.29	-493.24	1,492.36	1,571.76	1,553.13	18.63	84.354		
900.00	900.00	916.00	916.00	3.00	18.00	108.29	-493.24	1,492.36	1,571.76	1,550.75	21.01	74.821		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	20.02	108.29	-493.24	1,492.36	1,571.76	1,548.38	23.38	67.227		
1,100.00	1,099.98	1,115.98	1,115.98	3.71	22.03	-18.75	-493.24	1,492.36	1,570.11	1,544.37	25.74	61.004		
1,200.00	1,199.84	1,215.84	1,215.84	4.04	24.04	-18.84	-493.24	1,492.36	1,565.15	1,537.07	28.08	55.732		
1,300.00	1,299.45	1,315.45	1,315.45	4.39	26.05	-19.00	-493.24	1,492.36	1,556.90	1,526.48	30.43	51.166		
1,400.00	1,398.70	1,414.70	1,414.70	4.74	28.05	-19.22	-493.24	1,492.36	1,545.38	1,512.61	32.77	47.158		
1,500.00	1,497.47	1,513.47	1,513.47	5.12	30.03	-19.51	-493.24	1,492.36	1,530.60	1,495.50	35.11	43.598		
1,600.00	1,595.62	1,611.62	1,611.62	5.51	32.01	-19.88	-493.24	1,492.36	1,512.60	1,475.16	37.44	40.405		
1,700.00	1,693.06	1,709.06	1,709.06	5.94	33.97	-20.32	-493.24	1,492.36	1,491.41	1,451.66	39.76	37.513		
1,800.00	1,789.64	1,805.64	1,805.64	6.39	35.91	-20.85	-493.24	1,492.36	1,467.08	1,425.02	42.07	34.874		
1,863.26	1,850.25	1,866.25	1,866.25	6.70	37.13	-21.23	-493.24	1,492.36	1,450.09	1,406.57	43.53	33.316		
1,900.00	1,885.34	1,901.34	1,901.34	6.89	37.84	-21.39	-493.24	1,492.36	1,439.87	1,395.50	44.37	32.451		
2,000.00	1,980.83	2,003.17	1,996.83	7.41	39.89	-21.82	-493.24	1,492.36	1,412.11	1,365.32	46.80	30.174		
2,100.00	2,076.33	2,107.67	2,092.33	7.95	41.99	-22.28	-493.24	1,492.36	1,384.43	1,335.14	49.29	28.088		
2,200.00	2,171.82	2,187.82	2,187.82	8.50	43.60	-22.75	-493.24	1,492.36	1,356.84	1,305.54	51.30	26.450		
2,300.00	2,267.32	2,283.32	2,283.32	9.07	45.52	-23.24	-493.24	1,492.36	1,329.33	1,275.70	53.62	24.790		
2,400.00	2,362.81	2,378.81	2,378.81	9.64	47.44	-23.75	-493.24	1,492.36	1,301.92	1,245.96	55.96	23.266		
2,500.00	2,458.30	2,474.30	2,474.30	10.22	49.36	-24.28	-493.24	1,492.36	1,274.61	1,216.31	58.30	21.863		
2,600.00	2,553.80	2,569.80	2,569.80	10.81	51.29	-24.84	-493.24	1,492.36	1,247.40	1,186.76	60.65	20.568		
2,700.00	2,649.29	2,665.29	2,665.29	11.41	53.21	-25.42	-493.24	1,492.36	1,220.32	1,157.31	63.00	19.369		
2,800.00	2,744.79	2,760.79	2,760.79	12.01	55.13	-26.03	-493.24	1,492.36	1,193.35	1,127.99	65.37	18.256		
2,900.00	2,840.28	2,856.28	2,856.28	12.61	57.05	-26.66	-493.24	1,492.36	1,166.52	1,098.79	67.74	17.221		
3,000.00	2,935.77	2,951.77	2,951.77	13.22	58.97	-27.32	-493.24	1,492.36	1,139.83	1,069.72	70.12	16.256		
3,100.00	3,031.27	3,047.27	3,047.27	13.83	60.89	-28.02	-493.24	1,492.36	1,113.30	1,040.79	72.50	15.355		
3,200.00	3,126.76	3,142.76	3,142.76	14.44	62.81	-28.75	-493.24	1,492.36	1,086.92	1,012.02	74.90	14.511		
3,300.00	3,222.26	3,238.26	3,238.26	15.06	64.73	-29.51	-493.24	1,492.36	1,060.72	983.41	77.31	13.721		
3,400.00	3,317.75	3,333.75	3,333.75	15.68	66.65	-30.31	-493.24	1,492.36	1,034.70	954.98	79.72	12.979		
3,500.00	3,413.25	3,429.25	3,429.25	16.30	68.57	-31.15	-493.24	1,492.36	1,008.89	926.75	82.15	12.282		
3,600.00	3,508.74	3,524.74	3,524.74	16.92	70.49	-32.03	-493.24	1,492.36	983.30	898.72	84.58	11.625		
3,700.00	3,604.23	3,620.23	3,620.23	17.54	72.41	-32.96	-493.24	1,492.36	957.94	870.91	87.03	11.007		
3,800.00	3,699.73	3,715.73	3,715.73	18.17	74.33	-33.94	-493.24	1,492.36	932.84	843.35	89.49	10.424		
3,900.00	3,795.22	3,811.22	3,811.22	18.79	76.25	-34.97	-493.24	1,492.36	908.01	816.05	91.97	9.873		
4,000.00	3,890.72	3,906.72	3,906.72	19.42	78.17	-36.06	-493.24	1,492.36	883.49	789.03	94.46	9.353		
4,100.00	3,986.21	4,002.21	4,002.21	20.05	80.09	-37.20	-493.24	1,492.36	859.29	762.32	96.96	8.862		
4,200.00	4,081.70	4,102.30	4,097.70	20.67	82.11	-38.41	-493.24	1,492.36	835.44	735.86	99.58	8.390		
4,300.00	4,177.20	4,206.80	4,193.20	21.30	84.21	-39.69	-493.24	1,492.36	811.98	709.68	102.30	7.937		
4,400.00	4,272.69	4,288.69	4,288.69	21.93	85.86	-41.04	-493.24	1,492.36	788.93	684.34	104.59	7.543		
4,500.00	4,368.19	4,384.19	4,384.19	22.56	87.78	-42.47	-493.24	1,492.36	766.34	659.18	107.17	7.151		
4,600.00	4,463.68	4,479.68	4,479.68	23.19	89.70	-43.98	-493.24	1,492.36	744.25	634.49	109.77	6.780		
4,700.00	4,559.17	4,575.17	4,575.17	23.83	91.62	-45.58	-493.24	1,492.36	722.71	610.32	112.39	6.430		
4,800.00	4,654.67	4,670.67	4,670.67	24.46	93.54	-47.27	-493.24	1,492.36	701.76	586.72	115.04	6.100		
4,900.00	4,750.16	4,766.16	4,766.16	25.09	95.46	-49.05	-493.24	1,492.36	681.45	563.74	117.71	5.789		
5,000.00	4,845.66	4,861.66	4,861.66	25.72	97.38	-50.94	-493.24	1,492.36	661.86	541.45	120.40	5.497		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,957.15	4,957.15	26.36	99.30	-52.94	-493.24	1,492.36	643.04	519.91	123.12	5.223		
5,200.00	5,036.65	5,052.65	5,052.65	26.99	101.22	-55.04	-493.24	1,492.36	625.06	499.20	125.86	4.966		
5,300.00	5,132.14	5,148.14	5,148.14	27.63	103.14	-57.26	-493.24	1,492.36	608.00	479.37	128.62	4.727		
5,400.00	5,227.63	5,243.63	5,243.63	28.26	105.06	-59.60	-493.24	1,492.36	591.93	460.53	131.41	4.505		
5,500.00	5,323.13	5,339.13	5,339.13	28.90	106.98	-62.05	-493.24	1,492.36	576.95	442.75	134.20	4.299		
5,600.00	5,418.62	5,434.62	5,434.62	29.53	108.90	-64.62	-493.24	1,492.36	563.14	426.13	137.01	4.110		
5,700.00	5,514.12	5,530.12	5,530.12	30.17	110.82	-67.31	-493.24	1,492.36	550.58	410.76	139.81	3.938		
5,800.00	5,609.61	5,625.61	5,625.61	30.80	112.74	-70.10	-493.24	1,492.36	539.36	396.74	142.62	3.782		
5,900.00	5,705.10	5,721.10	5,721.10	31.44	114.66	-73.00	-493.24	1,492.36	529.57	384.15	145.41	3.642		
6,000.00	5,800.60	5,816.60	5,816.60	32.08	116.58	-75.99	-493.24	1,492.36	521.28	373.09	148.19	3.518		
6,100.00	5,896.09	5,912.09	5,912.09	32.71	118.50	-79.06	-493.24	1,492.36	514.58	363.65	150.93	3.409		
6,200.00	5,991.59	6,007.59	6,007.59	33.35	120.42	-82.19	-493.24	1,492.36	509.52	355.89	153.63	3.316		
6,300.00	6,087.08	6,103.08	6,103.08	33.99	122.34	-85.37	-493.24	1,492.36	506.16	349.87	156.29	3.239		
6,400.00	6,182.57	6,201.43	6,198.57	34.62	124.32	-88.58	-493.24	1,492.36	504.52	345.57	158.94	3.174		
6,444.06	6,224.65	6,240.65	6,240.65	34.90	125.11	-90.00	-493.24	1,492.36	504.35	344.33	160.01	3.152 CC		
6,499.99	6,278.06	6,305.94	6,294.06	35.26	126.42	-91.80	-493.24	1,492.36	504.62	342.96	161.66	3.121		
6,505.95	6,283.75	6,300.25	6,299.75	35.30	126.31	-91.99	-493.24	1,492.36	504.68	343.10	161.58	3.123		
6,600.00	6,374.00	6,410.00	6,390.00	35.88	128.52	-94.90	-493.24	1,492.36	506.33	342.04	164.29	3.082		
6,700.00	6,470.87	6,486.87	6,486.87	36.44	130.06	-97.65	-493.24	1,492.36	509.13	342.85	166.28	3.062		
6,800.00	6,568.53	6,584.53	6,584.53	36.96	132.03	-100.04	-493.24	1,492.36	512.51	343.89	168.62	3.039		
6,900.00	6,666.89	6,682.89	6,682.89	37.43	134.00	-102.05	-493.24	1,492.36	516.01	345.09	170.92	3.019		
7,000.00	6,765.82	6,781.82	6,781.82	37.85	135.99	-103.67	-493.24	1,492.36	519.29	346.10	173.20	2.998		
7,100.00	6,865.19	6,881.19	6,881.19	38.22	137.99	-104.90	-493.24	1,492.36	522.05	346.59	175.46	2.975		
7,200.00	6,964.89	6,980.89	6,980.89	38.55	140.00	-105.75	-493.24	1,492.36	524.08	346.36	177.71	2.949		
7,300.00	7,064.80	7,080.80	7,080.80	38.83	142.01	-106.20	-493.24	1,492.36	525.22	345.26	179.96	2.918		
7,369.20	7,134.00	7,150.00	7,150.00	39.00	143.40	-20.71	-493.24	1,492.36	525.46	343.94	181.52	2.895		
7,400.00	7,164.80	7,180.80	7,180.80	39.06	144.02	20.71	-493.24	1,492.36	525.46	343.25	182.21	2.884		
7,469.20	7,234.00	7,250.00	7,250.00	39.22	145.41	20.71	-493.24	1,492.36	525.46	341.71	183.75	2.860 ES		
7,500.00	7,264.78	7,280.78	7,280.78	39.29	146.03	-158.95	-493.24	1,492.36	526.23	341.79	184.44	2.853 SF		
7,550.00	7,314.53	7,330.53	7,330.53	39.44	147.03	-158.98	-493.24	1,492.36	530.77	345.21	185.56	2.860		
7,600.00	7,363.66	7,379.66	7,379.66	39.62	148.02	-159.02	-493.24	1,492.36	539.36	352.69	186.67	2.889		
7,650.00	7,411.81	7,427.81	7,427.81	39.82	148.99	-159.05	-493.24	1,492.36	551.95	364.19	187.76	2.940		
7,700.00	7,458.61	7,474.61	7,474.61	40.06	149.93	-159.06	-493.24	1,492.36	568.49	379.67	188.82	3.011		
7,750.00	7,503.69	7,519.69	7,519.69	40.32	150.83	-159.02	-493.24	1,492.36	588.89	399.05	189.84	3.102		
7,800.00	7,546.72	7,562.72	7,562.72	40.60	151.70	-158.88	-493.24	1,492.36	613.03	422.21	190.82	3.213		
7,850.00	7,587.38	7,603.38	7,603.38	40.92	152.52	-158.61	-493.24	1,492.36	640.76	449.02	191.74	3.342		
7,900.00	7,625.34	7,641.34	7,641.34	41.25	153.28	-158.16	-493.24	1,492.36	671.90	479.30	192.59	3.489		
7,950.00	7,660.33	7,676.33	7,676.33	41.61	153.98	-157.45	-493.24	1,492.36	706.23	512.85	193.38	3.652		
8,000.00	7,692.07	7,708.07	7,708.07	42.00	154.62	-156.40	-493.24	1,492.36	743.51	549.41	194.09	3.831		
8,050.00	7,720.33	7,736.33	7,736.33	42.40	155.19	-154.85	-493.24	1,492.36	783.46	588.73	194.72	4.023		
8,100.00	7,744.89	7,760.89	7,760.89	42.83	155.68	-152.59	-493.24	1,492.36	825.78	630.51	195.27	4.229		
8,150.00	7,765.56	7,781.56	7,781.56	43.27	156.10	-149.24	-493.24	1,492.36	870.15	674.42	195.72	4.446		
8,200.00	7,782.18	7,801.82	7,798.18	43.74	156.51	-144.13	-493.24	1,492.36	916.22	720.06	196.16	4.671		
8,250.00	7,794.63	7,810.63	7,810.63	44.22	156.68	-135.97	-493.24	1,492.36	963.64	767.29	196.35	4.908		
8,300.00	7,802.82	7,818.82	7,818.82	44.71	156.85	-122.42	-493.24	1,492.36	1,012.04	815.52	196.52	5.150		
8,350.00	7,806.68	7,822.68	7,822.68	45.21	156.93	-100.54	-493.24	1,492.36	1,061.04	864.45	196.59	5.397		
8,369.28	7,807.00	7,823.00	7,823.00	45.40	156.93	-90.00	-493.24	1,492.36	1,080.01	883.42	196.60	5.494		
8,400.00	7,807.00	7,823.00	7,823.00	45.72	156.93	-90.00	-493.24	1,492.36	1,110.28	913.69	196.59	5.648		
8,500.00	7,807.00	7,823.00	7,823.00	46.77	156.93	-90.00	-493.24	1,492.36	1,208.94	1,012.37	196.57	6.150		
8,600.00	7,807.00	7,823.00	7,823.00	47.86	156.93	-89.99	-493.24	1,492.36	1,307.81	1,111.26	196.55	6.654		
8,700.00	7,807.00	7,823.00	7,823.00	48.99	156.93	-89.99	-493.24	1,492.36	1,406.83	1,210.30	196.53	7.158		
8,800.00	7,806.99	7,822.99	7,822.99	50.16	156.93	-89.99	-493.24	1,492.36	1,505.99	1,309.47	196.52	7.663		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,822.99	7,822.99	51.37	156.93	-89.99	-493.24	1,492.36	1,605.25	1,408.74	196.51	8.169		
9,000.00	7,806.99	7,822.99	7,822.99	52.60	156.93	-89.99	-493.24	1,492.36	1,704.60	1,508.09	196.50	8.675		
9,100.00	7,806.99	7,822.99	7,822.99	53.87	156.93	-89.99	-493.24	1,492.36	1,804.01	1,607.52	196.50	9.181		
9,200.00	7,806.99	7,822.99	7,822.99	55.17	156.93	-89.99	-493.24	1,492.36	1,903.49	1,707.00	196.50	9.687		
9,300.00	7,806.99	7,822.99	7,822.99	56.49	156.93	-89.99	-493.24	1,492.36	2,003.03	1,806.53	196.50	10.194		
9,400.00	7,806.99	7,822.99	7,822.99	57.83	156.93	-89.99	-493.24	1,492.36	2,102.60	1,906.10	196.50	10.700		
9,500.00	7,806.99	7,822.99	7,822.99	59.20	156.93	-89.99	-493.24	1,492.36	2,202.22	2,005.71	196.50	11.207		
9,600.00	7,806.98	7,822.98	7,822.98	60.59	156.93	-89.99	-493.24	1,492.36	2,301.86	2,105.36	196.51	11.714		
9,700.00	7,806.98	7,822.98	7,822.98	62.00	156.93	-89.99	-493.24	1,492.36	2,401.54	2,205.03	196.52	12.221		
9,800.00	7,806.98	7,822.98	7,822.98	63.43	156.93	-89.99	-493.24	1,492.36	2,501.24	2,304.72	196.52	12.727		
9,900.00	7,806.98	7,822.98	7,822.98	64.87	156.93	-89.99	-493.24	1,492.36	2,600.97	2,404.44	196.53	13.234		
10,000.00	7,806.98	7,822.98	7,822.98	66.34	156.93	-89.99	-493.24	1,492.36	2,700.72	2,504.17	196.55	13.741		
10,100.00	7,806.98	7,822.98	7,822.98	67.81	156.93	-89.99	-493.24	1,492.36	2,800.48	2,603.92	196.56	14.248		
10,200.00	7,806.98	7,822.98	7,822.98	69.30	156.93	-89.99	-493.24	1,492.36	2,900.26	2,703.69	196.57	14.754		
10,300.00	7,806.98	7,822.98	7,822.98	70.81	156.93	-89.99	-493.24	1,492.36	3,000.06	2,803.47	196.59	15.261		
10,400.00	7,806.97	7,822.97	7,822.97	72.32	156.93	-89.99	-493.24	1,492.36	3,099.86	2,903.26	196.61	15.767		
10,500.00	7,806.97	7,822.97	7,822.97	73.85	156.93	-89.99	-493.24	1,492.36	3,199.68	3,003.06	196.62	16.273		
10,600.00	7,806.97	7,822.97	7,822.97	75.39	156.93	-89.99	-493.24	1,492.36	3,299.52	3,102.87	196.64	16.779		
10,700.00	7,806.97	7,822.97	7,822.97	76.94	156.93	-89.99	-493.24	1,492.36	3,399.36	3,202.69	196.66	17.285		
10,800.00	7,806.97	7,822.97	7,822.97	78.49	156.93	-89.99	-493.24	1,492.36	3,499.21	3,302.52	196.68	17.791		
10,900.00	7,806.97	7,822.97	7,822.97	80.06	156.93	-89.99	-493.24	1,492.36	3,599.07	3,402.36	196.71	18.297		
11,000.00	7,806.97	7,822.97	7,822.97	81.64	156.93	-89.99	-493.24	1,492.36	3,698.93	3,502.20	196.73	18.802		
11,100.00	7,806.97	7,822.97	7,822.97	83.22	156.93	-89.99	-493.24	1,492.36	3,798.80	3,602.05	196.75	19.308		
11,200.00	7,806.96	7,822.96	7,822.96	84.81	156.93	-89.98	-493.24	1,492.36	3,898.68	3,701.91	196.78	19.813		
11,300.00	7,806.96	7,822.96	7,822.96	86.41	156.93	-89.98	-493.24	1,492.36	3,998.57	3,801.77	196.80	20.318		
11,400.00	7,806.96	7,822.96	7,822.96	88.01	156.93	-89.98	-493.24	1,492.36	4,098.46	3,901.63	196.83	20.822		
11,500.00	7,806.96	7,822.96	7,822.96	89.63	156.93	-89.98	-493.24	1,492.36	4,198.36	4,001.50	196.86	21.327		
11,600.00	7,806.96	7,822.96	7,822.96	91.24	156.93	-89.98	-493.24	1,492.36	4,298.26	4,101.37	196.89	21.831		
11,700.00	7,806.96	7,822.96	7,822.96	92.87	156.93	-89.98	-493.24	1,492.36	4,398.16	4,201.25	196.91	22.335		
11,800.00	7,806.96	7,822.96	7,822.96	94.49	156.93	-89.98	-493.24	1,492.36	4,498.07	4,301.13	196.94	22.839		
11,900.00	7,806.95	7,822.95	7,822.95	96.13	156.93	-89.98	-493.24	1,492.36	4,597.99	4,401.01	196.98	23.343		
12,000.00	7,806.95	7,822.95	7,822.95	97.77	156.93	-89.98	-493.24	1,492.36	4,697.91	4,500.90	197.01	23.846		
12,100.00	7,806.95	7,822.95	7,822.95	99.41	156.93	-89.98	-493.24	1,492.36	4,797.83	4,600.79	197.04	24.350		
12,200.00	7,806.95	7,822.95	7,822.95	101.06	156.93	-89.98	-493.24	1,492.36	4,897.75	4,700.68	197.07	24.853		
12,300.00	7,806.95	7,822.95	7,822.95	102.71	156.93	-89.98	-493.24	1,492.36	4,997.68	4,800.57	197.11	25.355		
12,400.00	7,806.95	7,822.95	7,822.95	104.37	156.93	-89.98	-493.24	1,492.36	5,097.61	4,900.47	197.14	25.858		
12,500.00	7,806.95	7,822.95	7,822.95	106.02	156.93	-89.98	-493.24	1,492.36	5,197.54	5,000.36	197.18	26.360		
12,600.00	7,806.95	7,822.95	7,822.95	107.69	156.93	-89.98	-493.24	1,492.36	5,297.48	5,100.26	197.21	26.862		
12,700.00	7,806.94	7,822.94	7,822.94	109.35	156.93	-89.98	-493.24	1,492.36	5,397.41	5,200.16	197.25	27.363		
12,800.00	7,806.94	7,822.94	7,822.94	111.02	156.93	-89.98	-493.24	1,492.36	5,497.35	5,300.07	197.29	27.865		
12,900.00	7,806.94	7,822.94	7,822.94	112.70	156.93	-89.98	-493.24	1,492.36	5,597.30	5,399.97	197.33	28.366		
13,000.00	7,806.94	7,822.94	7,822.94	114.37	156.93	-89.98	-493.24	1,492.36	5,697.24	5,499.87	197.36	28.867		
13,100.00	7,806.94	7,822.94	7,822.94	116.05	156.93	-89.98	-493.24	1,492.36	5,797.19	5,599.78	197.40	29.367		
13,200.00	7,806.94	7,822.94	7,822.94	117.74	156.93	-89.98	-493.24	1,492.36	5,897.13	5,699.69	197.44	29.867		
13,300.00	7,806.94	7,822.94	7,822.94	119.42	156.93	-89.98	-493.24	1,492.36	5,997.08	5,799.60	197.49	30.367		
13,400.00	7,806.94	7,822.94	7,822.94	121.11	156.93	-89.98	-493.24	1,492.36	6,097.03	5,899.51	197.53	30.867		
13,500.00	7,806.93	7,822.93	7,822.93	122.80	156.93	-89.98	-493.24	1,492.36	6,196.99	5,999.42	197.57	31.366		
13,600.00	7,806.93	7,822.93	7,822.93	124.49	156.93	-89.98	-493.24	1,492.36	6,296.94	6,099.33	197.61	31.865		
13,700.00	7,806.93	7,822.93	7,822.93	126.18	156.93	-89.98	-493.24	1,492.36	6,396.90	6,199.24	197.66	32.364		
13,800.00	7,806.93	7,822.93	7,822.93	127.88	156.93	-89.97	-493.24	1,492.36	6,496.85	6,299.15	197.70	32.862		
13,900.00	7,806.93	7,822.93	7,822.93	129.58	156.93	-89.97	-493.24	1,492.36	6,596.81	6,399.07	197.75	33.360		
14,000.00	7,806.93	7,822.93	7,822.93	131.28	156.93	-89.97	-493.24	1,492.36	6,696.77	6,498.98	197.79	33.857		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,822.93	7,822.93	132.98	156.93	-89.97	-493.24	1,492.36	6,796.73	6,598.89	197.84	34.355	
14,200.00	7,806.93	7,822.93	7,822.93	134.68	156.93	-89.97	-493.24	1,492.36	6,896.70	6,698.81	197.89	34.852	
14,300.00	7,806.92	7,822.92	7,822.92	136.39	156.93	-89.97	-493.24	1,492.36	6,996.66	6,798.72	197.93	35.348	
14,400.00	7,806.92	7,822.92	7,822.92	138.10	156.93	-89.97	-493.24	1,492.36	7,096.62	6,898.64	197.98	35.845	
14,500.00	7,806.92	7,822.92	7,822.92	139.81	156.93	-89.97	-493.24	1,492.36	7,196.59	6,998.55	198.03	36.340	
14,600.00	7,806.92	7,822.92	7,822.92	141.52	156.93	-89.97	-493.24	1,492.36	7,296.55	7,098.47	198.08	36.836	
14,700.00	7,806.92	7,822.92	7,822.92	143.23	156.93	-89.97	-493.24	1,492.36	7,396.52	7,198.39	198.13	37.331	
14,800.00	7,806.92	7,822.92	7,822.92	144.94	156.93	-89.97	-493.24	1,492.36	7,496.49	7,298.30	198.18	37.826	
14,900.00	7,806.92	7,822.92	7,822.92	146.66	156.93	-89.97	-493.24	1,492.36	7,596.46	7,398.22	198.24	38.320	
15,000.00	7,806.92	7,822.92	7,822.92	148.37	156.93	-89.97	-493.24	1,492.36	7,696.43	7,498.14	198.29	38.814	
15,100.00	7,806.91	7,822.91	7,822.91	150.09	156.93	-89.97	-493.24	1,492.36	7,796.40	7,598.06	198.34	39.308	
15,200.00	7,806.91	7,822.91	7,822.91	151.81	156.93	-89.97	-493.24	1,492.36	7,896.37	7,697.97	198.39	39.801	
15,300.00	7,806.91	7,822.91	7,822.91	153.53	156.93	-89.97	-493.24	1,492.36	7,996.34	7,797.89	198.45	40.294	
15,400.00	7,806.91	7,822.91	7,822.91	155.25	156.93	-89.97	-493.24	1,492.36	8,096.31	7,897.81	198.50	40.787	
15,500.00	7,806.91	7,822.91	7,822.91	156.97	156.93	-89.97	-493.24	1,492.36	8,196.29	7,997.73	198.56	41.279	
15,600.00	7,806.91	7,822.91	7,822.91	158.70	156.93	-89.97	-493.24	1,492.36	8,296.26	8,097.65	198.61	41.771	
15,700.00	7,806.91	7,822.91	7,822.91	160.42	156.93	-89.97	-493.24	1,492.36	8,396.23	8,197.56	198.67	42.262	
15,800.00	7,806.91	7,822.91	7,822.91	162.15	156.93	-89.97	-493.24	1,492.36	8,496.21	8,297.48	198.73	42.753	
15,900.00	7,806.90	7,822.90	7,822.90	163.88	156.93	-89.97	-493.24	1,492.36	8,596.18	8,397.40	198.79	43.244	
16,000.00	7,806.90	7,822.90	7,822.90	165.60	156.93	-89.97	-493.24	1,492.36	8,696.16	8,497.32	198.84	43.734	
16,100.00	7,806.90	7,822.90	7,822.90	167.33	156.93	-89.97	-493.24	1,492.36	8,796.14	8,597.24	198.90	44.223	
16,200.00	7,806.90	7,822.90	7,822.90	169.06	156.93	-89.97	-493.24	1,492.36	8,896.11	8,697.15	198.96	44.713	
16,300.00	7,806.90	7,822.90	7,822.90	170.79	156.93	-89.97	-493.24	1,492.36	8,996.09	8,797.07	199.02	45.202	
16,400.00	7,806.90	7,822.90	7,822.90	172.52	156.93	-89.96	-493.24	1,492.36	9,096.07	8,896.99	199.08	45.690	
16,500.00	7,806.90	7,822.90	7,822.90	174.26	156.93	-89.96	-493.24	1,492.36	9,196.05	8,996.91	199.14	46.178	
16,600.00	7,806.89	7,822.89	7,822.89	175.99	156.93	-89.96	-493.24	1,492.36	9,296.03	9,096.82	199.20	46.666	
16,700.00	7,806.89	7,822.89	7,822.89	177.72	156.93	-89.96	-493.24	1,492.36	9,396.01	9,196.74	199.27	47.153	
16,800.00	7,806.89	7,822.89	7,822.89	179.46	156.93	-89.96	-493.24	1,492.36	9,495.99	9,296.66	199.33	47.640	
16,900.00	7,806.89	7,822.89	7,822.89	181.19	156.93	-89.96	-493.24	1,492.36	9,595.97	9,396.58	199.39	48.126	
17,000.00	7,806.89	7,822.89	7,822.89	182.93	156.93	-89.96	-493.24	1,492.36	9,695.95	9,496.49	199.46	48.612	
17,100.00	7,806.89	7,822.89	7,822.89	184.67	156.93	-89.96	-493.24	1,492.36	9,795.93	9,596.41	199.52	49.097	
17,200.00	7,806.89	7,822.89	7,822.89	186.40	156.93	-89.96	-493.24	1,492.36	9,895.91	9,696.33	199.59	49.582	
17,300.00	7,806.89	7,822.89	7,822.89	188.14	156.93	-89.96	-493.24	1,492.36	9,995.89	9,796.24	199.65	50.067	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	4.94	3,770.92	326.03	3,785.09					
100.00	100.00	72.00	72.00	0.13	0.83	4.94	3,770.92	326.03	3,784.98	3,784.02	0.97	3,908.534		
200.00	200.00	172.00	172.00	0.49	2.81	4.94	3,770.92	326.03	3,784.98	3,781.68	3.31	1,144.831		
300.00	300.00	272.00	272.00	0.85	4.95	4.94	3,770.92	326.03	3,784.98	3,779.18	5.81	652.009		
400.00	400.00	372.00	372.00	1.21	7.01	4.94	3,770.92	326.03	3,784.98	3,776.77	8.22	460.673		
500.00	500.00	472.00	472.00	1.57	9.04	4.94	3,770.92	326.03	3,784.98	3,774.38	10.61	356.822		
600.00	600.00	572.00	572.00	1.93	11.06	4.94	3,770.92	326.03	3,784.98	3,771.99	12.99	291.365		
700.00	700.00	672.00	672.00	2.29	13.08	4.94	3,770.92	326.03	3,784.98	3,769.61	15.37	246.269		
800.00	800.00	772.00	772.00	2.64	15.10	4.94	3,770.92	326.03	3,784.98	3,767.24	17.75	213.293		
900.00	900.00	872.00	872.00	3.00	17.12	4.94	3,770.92	326.03	3,784.98	3,764.86	20.12	188.120		
1,000.00	1,000.00	972.00	972.00	3.36	19.13	4.94	3,770.92	326.03	3,784.98	3,762.49	22.49	168.269 CC		
1,100.00	1,099.98	1,071.98	1,071.98	3.71	21.15	-122.07	3,770.92	326.03	3,785.91	3,761.06	24.85	152.336 ES		
1,200.00	1,199.84	1,171.84	1,171.84	4.04	23.16	-122.09	3,770.92	326.03	3,788.69	3,761.49	27.20	139.292		
1,300.00	1,299.45	1,271.45	1,271.45	4.39	25.16	-122.12	3,770.92	326.03	3,793.34	3,763.79	29.55	128.374		
1,400.00	1,398.70	1,370.70	1,370.70	4.74	27.16	-122.17	3,770.92	326.03	3,799.86	3,767.96	31.90	119.115		
1,500.00	1,497.47	1,469.47	1,469.47	5.12	29.15	-122.22	3,770.92	326.03	3,808.27	3,774.01	34.25	111.174		
1,600.00	1,595.62	1,567.62	1,567.62	5.51	31.12	-122.29	3,770.92	326.03	3,818.59	3,781.97	36.61	104.297		
1,700.00	1,693.06	1,665.06	1,665.06	5.94	33.08	-122.36	3,770.92	326.03	3,830.84	3,791.86	38.98	98.289		
1,800.00	1,789.64	1,761.64	1,761.64	6.39	35.03	-122.43	3,770.92	326.03	3,845.05	3,803.70	41.34	93.001		
1,863.26	1,850.25	1,822.25	1,822.25	6.70	36.25	-122.48	3,770.92	326.03	3,855.06	3,812.22	42.85	89.973		
1,900.00	1,885.34	1,857.34	1,857.34	6.89	36.95	-122.61	3,770.92	326.03	3,861.12	3,817.40	43.72	88.313		
2,000.00	1,980.83	1,952.83	1,952.83	7.41	38.87	-122.97	3,770.92	326.03	3,877.72	3,831.61	46.11	84.099		
2,100.00	2,076.33	2,048.33	2,048.33	7.95	40.80	-123.33	3,770.92	326.03	3,894.48	3,845.97	48.51	80.284		
2,200.00	2,171.82	2,143.82	2,143.82	8.50	42.72	-123.68	3,770.92	326.03	3,911.38	3,860.47	50.92	76.817		
2,300.00	2,267.32	2,239.32	2,239.32	9.07	44.64	-124.03	3,770.92	326.03	3,928.44	3,875.11	53.33	73.657		
2,400.00	2,362.81	2,334.81	2,334.81	9.64	46.56	-124.37	3,770.92	326.03	3,945.65	3,889.90	55.76	70.766		
2,500.00	2,458.30	2,430.30	2,430.30	10.22	48.48	-124.72	3,770.92	326.03	3,963.01	3,904.83	58.18	68.113		
2,600.00	2,553.80	2,525.80	2,525.80	10.81	50.40	-125.06	3,770.92	326.03	3,980.51	3,919.90	60.61	65.672		
2,700.00	2,649.29	2,621.29	2,621.29	11.41	52.32	-125.40	3,770.92	326.03	3,998.16	3,935.12	63.04	63.419		
2,800.00	2,744.79	2,716.79	2,716.79	12.01	54.24	-125.73	3,770.92	326.03	4,015.95	3,950.47	65.48	61.333		
2,900.00	2,840.28	2,812.28	2,812.28	12.61	56.16	-126.06	3,770.92	326.03	4,033.88	3,965.96	67.91	59.398		
3,000.00	2,935.77	2,907.77	2,907.77	13.22	58.08	-126.39	3,770.92	326.03	4,051.94	3,981.59	70.35	57.599		
3,100.00	3,031.27	3,003.27	3,003.27	13.83	60.00	-126.72	3,770.92	326.03	4,070.14	3,997.36	72.78	55.921		
3,200.00	3,126.76	3,101.24	3,101.24	14.44	61.97	-127.04	3,770.92	326.03	4,088.48	4,013.21	75.27	54.319		
3,300.00	3,222.26	3,205.74	3,205.74	15.06	64.08	-127.36	3,770.92	326.03	4,106.95	4,029.07	77.89	52.731		
3,400.00	3,317.75	3,289.75	3,289.75	15.68	65.77	-127.68	3,770.92	326.03	4,125.55	4,045.46	80.09	51.512		
3,500.00	3,413.25	3,385.25	3,385.25	16.30	67.69	-128.00	3,770.92	326.03	4,144.28	4,061.76	82.52	50.220		
3,600.00	3,508.74	3,480.74	3,480.74	16.92	69.61	-128.31	3,770.92	326.03	4,163.14	4,078.18	84.96	49.003		
3,700.00	3,604.23	3,576.23	3,576.23	17.54	71.53	-128.62	3,770.92	326.03	4,182.12	4,094.73	87.39	47.857		
3,800.00	3,699.73	3,671.73	3,671.73	18.17	73.45	-128.93	3,770.92	326.03	4,201.23	4,111.41	89.82	46.774		
3,900.00	3,795.22	3,767.22	3,767.22	18.79	75.37	-129.23	3,770.92	326.03	4,220.45	4,128.20	92.25	45.750		
4,000.00	3,890.72	3,862.72	3,862.72	19.42	77.29	-129.54	3,770.92	326.03	4,239.80	4,145.12	94.68	44.781		
4,100.00	3,986.21	3,958.21	3,958.21	20.05	79.21	-129.84	3,770.92	326.03	4,259.27	4,162.16	97.11	43.862		
4,200.00	4,081.70	4,053.70	4,053.70	20.67	81.13	-130.13	3,770.92	326.03	4,278.86	4,179.32	99.53	42.990		
4,300.00	4,177.20	4,149.20	4,149.20	21.30	83.05	-130.43	3,770.92	326.03	4,298.56	4,196.60	101.96	42.161		
4,400.00	4,272.69	4,244.69	4,244.69	21.93	84.97	-130.72	3,770.92	326.03	4,318.37	4,213.99	104.38	41.372		
4,500.00	4,368.19	4,340.19	4,340.19	22.56	86.89	-131.01	3,770.92	326.03	4,338.30	4,231.50	106.80	40.620		
4,600.00	4,463.68	4,435.68	4,435.68	23.19	88.81	-131.30	3,770.92	326.03	4,358.34	4,249.12	109.22	39.904		
4,700.00	4,559.17	4,531.17	4,531.17	23.83	90.73	-131.58	3,770.92	326.03	4,378.48	4,266.85	111.64	39.220		
4,800.00	4,654.67	4,626.67	4,626.67	24.46	92.65	-131.86	3,770.92	326.03	4,398.74	4,284.68	114.06	38.566		
4,900.00	4,750.16	4,722.16	4,722.16	25.09	94.57	-132.14	3,770.92	326.03	4,419.10	4,302.63	116.47	37.941		
5,000.00	4,845.66	4,817.66	4,817.66	25.72	96.49	-132.42	3,770.92	326.03	4,439.57	4,320.69	118.89	37.343		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,913.15	4,913.15	26.36	98.41	-132.70	3,770.92	326.03	4,460.14	4,338.84	121.30	36.770		
5,200.00	5,036.65	5,008.65	5,008.65	26.99	100.34	-132.97	3,770.92	326.03	4,480.81	4,357.11	123.71	36.221		
5,300.00	5,132.14	5,104.14	5,104.14	27.63	102.26	-133.24	3,770.92	326.03	4,501.59	4,375.47	126.12	35.694		
5,400.00	5,227.63	5,200.37	5,199.63	28.26	104.19	-133.51	3,770.92	326.03	4,522.46	4,393.92	128.54	35.183		
5,500.00	5,323.13	5,304.87	5,295.13	28.90	106.29	-133.77	3,770.92	326.03	4,543.43	4,412.31	131.13	34.649		
5,600.00	5,418.62	5,409.38	5,390.62	29.53	108.39	-134.03	3,770.92	326.03	4,564.50	4,430.79	133.71	34.137		
5,700.00	5,514.12	5,486.12	5,486.12	30.17	109.94	-134.29	3,770.92	326.03	4,585.66	4,449.93	135.74	33.783		
5,800.00	5,609.61	5,581.61	5,581.61	30.80	111.86	-134.55	3,770.92	326.03	4,606.92	4,468.78	138.14	33.350		
5,900.00	5,705.10	5,677.10	5,677.10	31.44	113.78	-134.81	3,770.92	326.03	4,628.27	4,487.73	140.54	32.932		
6,000.00	5,800.60	5,772.60	5,772.60	32.08	115.70	-135.06	3,770.92	326.03	4,649.71	4,506.78	142.94	32.530		
6,100.00	5,896.09	5,868.09	5,868.09	32.71	117.62	-135.31	3,770.92	326.03	4,671.24	4,525.91	145.33	32.142		
6,200.00	5,991.59	5,963.59	5,963.59	33.35	119.54	-135.56	3,770.92	326.03	4,692.86	4,545.14	147.73	31.767		
6,300.00	6,087.08	6,059.08	6,059.08	33.99	121.46	-135.81	3,770.92	326.03	4,714.57	4,564.45	150.12	31.405		
6,400.00	6,182.57	6,154.57	6,154.57	34.62	123.38	-136.05	3,770.92	326.03	4,736.37	4,583.85	152.51	31.055		
6,499.99	6,278.06	6,250.06	6,250.06	35.26	125.30	-136.30	3,770.92	326.03	4,758.24	4,603.34	154.91	30.717		
6,505.95	6,283.75	6,255.75	6,255.75	35.30	125.42	-136.31	3,770.92	326.03	4,759.55	4,604.50	155.05	30.697		
6,600.00	6,374.00	6,346.00	6,346.00	35.88	127.23	-136.80	3,770.92	326.03	4,779.11	4,621.82	157.29	30.384		
6,700.00	6,470.87	6,442.87	6,442.87	36.44	129.18	-137.26	3,770.92	326.03	4,797.56	4,637.88	159.67	30.046		
6,800.00	6,568.53	6,540.53	6,540.53	36.96	131.14	-137.65	3,770.92	326.03	4,813.53	4,651.48	162.05	29.705		
6,900.00	6,666.89	6,638.89	6,638.89	37.43	133.12	-137.97	3,770.92	326.03	4,826.98	4,662.57	164.41	29.360		
7,000.00	6,765.82	6,737.82	6,737.82	37.85	135.11	-138.23	3,770.92	326.03	4,837.88	4,671.13	166.76	29.011		
7,100.00	6,865.19	6,837.19	6,837.19	38.22	137.11	-138.43	3,770.92	326.03	4,846.21	4,677.12	169.09	28.660		
7,200.00	6,964.89	6,936.89	6,936.89	38.55	139.11	-138.57	3,770.92	326.03	4,851.95	4,680.53	171.41	28.305		
7,300.00	7,064.80	7,036.80	7,036.80	38.83	141.12	-138.64	3,770.92	326.03	4,855.07	4,681.35	173.72	27.948		
7,369.20	7,134.00	7,106.00	7,106.00	39.00	142.51	-11.65	3,770.92	326.03	4,855.70	4,680.40	175.29	27.700		
7,400.00	7,164.80	7,136.80	7,136.80	39.06	143.13	-11.65	3,770.92	326.03	4,855.70	4,679.70	175.99	27.590		
7,469.20	7,234.00	7,206.00	7,206.00	39.22	144.52	-11.65	3,770.92	326.03	4,855.70	4,678.13	177.56	27.346		
7,500.00	7,264.78	7,236.78	7,236.78	39.29	145.14	168.68	3,770.92	326.03	4,856.51	4,678.24	178.26	27.243		
7,550.00	7,314.53	7,286.53	7,286.53	39.44	146.14	168.60	3,770.92	326.03	4,861.27	4,681.87	179.40	27.097		
7,600.00	7,363.66	7,335.66	7,335.66	39.62	147.13	168.44	3,770.92	326.03	4,870.27	4,689.75	180.53	26.978		
7,650.00	7,411.81	7,383.81	7,383.81	39.82	148.10	168.19	3,770.92	326.03	4,883.44	4,701.81	181.63	26.887		
7,700.00	7,458.61	7,430.61	7,430.61	40.06	149.04	167.85	3,770.92	326.03	4,900.67	4,717.96	182.71	26.822		
7,750.00	7,503.69	7,475.69	7,475.69	40.32	149.95	167.41	3,770.92	326.03	4,921.84	4,738.10	183.75	26.786		
7,800.00	7,546.72	7,518.72	7,518.72	40.60	150.81	166.83	3,770.92	326.03	4,946.79	4,762.05	184.73	26.778 SF		
7,850.00	7,587.38	7,559.38	7,559.38	40.92	151.63	166.09	3,770.92	326.03	4,975.33	4,789.66	185.67	26.797		
7,900.00	7,625.34	7,602.66	7,597.34	41.25	152.50	165.15	3,770.92	326.03	5,007.25	4,820.60	186.64	26.828		
7,950.00	7,660.33	7,632.33	7,632.33	41.61	153.10	163.95	3,770.92	326.03	5,042.30	4,854.96	187.33	26.916		
8,000.00	7,692.07	7,664.07	7,664.07	42.00	153.74	162.38	3,770.92	326.03	5,080.22	4,892.17	188.05	27.015		
8,050.00	7,720.33	7,707.67	7,692.33	42.40	154.61	160.31	3,770.92	326.03	5,120.73	4,931.74	188.99	27.095		
8,100.00	7,744.89	7,716.89	7,716.89	42.83	154.80	157.50	3,770.92	326.03	5,163.51	4,974.29	189.22	27.288		
8,150.00	7,765.56	7,737.56	7,737.56	43.27	155.21	153.53	3,770.92	326.03	5,208.25	5,018.58	189.67	27.460		
8,200.00	7,782.18	7,754.18	7,754.18	43.74	155.55	147.68	3,770.92	326.03	5,254.60	5,064.58	190.02	27.653		
8,250.00	7,794.63	7,766.63	7,766.63	44.22	155.80	138.55	3,770.92	326.03	5,302.21	5,111.95	190.27	27.867		
8,300.00	7,802.82	7,774.82	7,774.82	44.71	155.96	123.71	3,770.92	326.03	5,350.73	5,160.31	190.41	28.100		
8,350.00	7,806.68	7,778.68	7,778.68	45.21	156.04	100.63	3,770.92	326.03	5,399.78	5,209.31	190.46	28.351		
8,369.28	7,807.00	7,779.00	7,779.00	45.40	156.05	90.00	3,770.92	326.03	5,418.75	5,228.30	190.45	28.452		
8,400.00	7,807.00	7,779.00	7,779.00	45.72	156.05	90.00	3,770.92	326.03	5,449.00	5,258.57	190.43	28.615		
8,500.00	7,807.00	7,779.00	7,779.00	46.77	156.05	90.00	3,770.92	326.03	5,547.49	5,357.14	190.35	29.144		
8,600.00	7,807.00	7,779.00	7,779.00	47.86	156.05	90.00	3,770.92	326.03	5,646.03	5,455.76	190.27	29.673		
8,700.00	7,807.00	7,779.00	7,779.00	48.99	156.05	90.00	3,770.92	326.03	5,744.62	5,554.42	190.20	30.203		
8,800.00	7,806.99	7,778.99	7,778.99	50.16	156.05	90.00	3,770.92	326.03	5,843.26	5,653.13	190.14	30.732		
8,900.00	7,806.99	7,778.99	7,778.99	51.37	156.05	90.00	3,770.92	326.03	5,941.95	5,751.88	190.07	31.261		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,778.99	7,778.99	52.60	156.05	90.00	3,770.92	326.03	6,040.68	5,850.66	190.02	31.790		
9,100.00	7,806.99	7,778.99	7,778.99	53.87	156.05	90.00	3,770.92	326.03	6,139.45	5,949.49	189.96	32.319		
9,200.00	7,806.99	7,778.99	7,778.99	55.17	156.05	90.00	3,770.92	326.03	6,238.26	6,048.35	189.91	32.848		
9,300.00	7,806.99	7,778.99	7,778.99	56.49	156.05	90.00	3,770.92	326.03	6,337.11	6,147.24	189.87	33.376		
9,400.00	7,806.99	7,778.99	7,778.99	57.83	156.05	90.00	3,770.92	326.03	6,435.99	6,246.17	189.82	33.905		
9,500.00	7,806.99	7,778.99	7,778.99	59.20	156.05	90.00	3,770.92	326.03	6,534.91	6,345.12	189.79	34.433		
9,600.00	7,806.98	7,778.98	7,778.98	60.59	156.05	89.99	3,770.92	326.03	6,633.86	6,444.11	189.75	34.961		
9,700.00	7,806.98	7,778.98	7,778.98	62.00	156.05	89.99	3,770.92	326.03	6,732.84	6,543.12	189.72	35.489		
9,800.00	7,806.98	7,778.98	7,778.98	63.43	156.05	89.99	3,770.92	326.03	6,831.85	6,642.16	189.69	36.016		
9,900.00	7,806.98	7,778.98	7,778.98	64.87	156.05	89.99	3,770.92	326.03	6,930.89	6,741.23	189.66	36.544		
10,000.00	7,806.98	7,778.98	7,778.98	66.34	156.05	89.99	3,770.92	326.03	7,029.95	6,840.32	189.64	37.071		
10,100.00	7,806.98	7,778.98	7,778.98	67.81	156.05	89.99	3,770.92	326.03	7,129.04	6,939.43	189.61	37.598		
10,200.00	7,806.98	7,778.98	7,778.98	69.30	156.05	89.99	3,770.92	326.03	7,228.16	7,038.57	189.59	38.124		
10,300.00	7,806.98	7,778.98	7,778.98	70.81	156.05	89.99	3,770.92	326.03	7,327.30	7,137.72	189.58	38.651		
10,400.00	7,806.97	7,778.97	7,778.97	72.32	156.05	89.99	3,770.92	326.03	7,426.47	7,236.90	189.56	39.177		
10,500.00	7,806.97	7,778.97	7,778.97	73.85	156.05	89.99	3,770.92	326.03	7,525.65	7,336.10	189.55	39.702		
10,600.00	7,806.97	7,778.97	7,778.97	75.39	156.05	89.99	3,770.92	326.03	7,624.86	7,435.32	189.54	40.228		
10,700.00	7,806.97	7,778.97	7,778.97	76.94	156.05	89.99	3,770.92	326.03	7,724.09	7,534.55	189.53	40.753		
10,800.00	7,806.97	7,778.97	7,778.97	78.49	156.05	89.99	3,770.92	326.03	7,823.33	7,633.81	189.53	41.278		
10,900.00	7,806.97	7,778.97	7,778.97	80.06	156.05	89.99	3,770.92	326.03	7,922.60	7,733.07	189.53	41.802		
11,000.00	7,806.97	7,778.97	7,778.97	81.64	156.05	89.99	3,770.92	326.03	8,021.89	7,832.36	189.52	42.326		
11,100.00	7,806.97	7,778.97	7,778.97	83.22	156.05	89.99	3,770.92	326.03	8,121.19	7,931.66	189.53	42.850		
11,200.00	7,806.96	7,778.96	7,778.96	84.81	156.05	89.99	3,770.92	326.03	8,220.51	8,030.98	189.53	43.374		
11,300.00	7,806.96	7,778.96	7,778.96	86.41	156.05	89.99	3,770.92	326.03	8,319.84	8,130.31	189.53	43.897		
11,400.00	7,806.96	7,778.96	7,778.96	88.01	156.05	89.99	3,770.92	326.03	8,419.19	8,229.65	189.54	44.420		
11,500.00	7,806.96	7,778.96	7,778.96	89.63	156.05	89.99	3,770.92	326.03	8,518.56	8,329.01	189.55	44.942		
11,600.00	7,806.96	7,778.96	7,778.96	91.24	156.05	89.99	3,770.92	326.03	8,617.94	8,428.38	189.56	45.464		
11,700.00	7,806.96	7,778.96	7,778.96	92.87	156.05	89.99	3,770.92	326.03	8,717.34	8,527.77	189.57	45.985		
11,800.00	7,806.96	7,778.96	7,778.96	94.49	156.05	89.99	3,770.92	326.03	8,816.74	8,627.16	189.58	46.507		
11,900.00	7,806.95	7,778.95	7,778.95	96.13	156.05	89.99	3,770.92	326.03	8,916.17	8,726.57	189.59	47.027		
12,000.00	7,806.95	7,778.95	7,778.95	97.77	156.05	89.99	3,770.92	326.03	9,015.60	8,825.99	189.61	47.548		
12,100.00	7,806.95	7,778.95	7,778.95	99.41	156.05	89.99	3,770.92	326.03	9,115.05	8,925.42	189.63	48.068		
12,200.00	7,806.95	7,778.95	7,778.95	101.06	156.05	89.99	3,770.92	326.03	9,214.51	9,024.86	189.65	48.587		
12,300.00	7,806.95	7,778.95	7,778.95	102.71	156.05	89.99	3,770.92	326.03	9,313.98	9,124.31	189.67	49.107		
12,400.00	7,806.95	7,778.95	7,778.95	104.37	156.05	89.99	3,770.92	326.03	9,413.46	9,223.77	189.69	49.625		
12,500.00	7,806.95	7,778.95	7,778.95	106.02	156.05	89.99	3,770.92	326.03	9,512.95	9,323.24	189.71	50.144		
12,600.00	7,806.95	7,778.95	7,778.95	107.69	156.05	89.99	3,770.92	326.03	9,612.46	9,422.72	189.74	50.661		
12,700.00	7,806.94	7,778.94	7,778.94	109.35	156.05	89.99	3,770.92	326.03	9,711.97	9,522.20	189.77	51.179		
12,800.00	7,806.94	7,778.94	7,778.94	111.02	156.05	89.99	3,770.92	326.03	9,811.49	9,621.70	189.79	51.696		
12,900.00	7,806.94	7,778.94	7,778.94	112.70	156.05	89.99	3,770.92	326.03	9,911.03	9,721.20	189.82	52.212		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	23.00	23.00	0.00	0.27	-48.89	2,355.49	-2,699.09	3,582.38					
100.00	100.00	123.00	123.00	0.13	1.69	-48.89	2,355.49	-2,699.09	3,582.38	3,580.56	1.82	1,966.848		
200.00	200.00	223.00	223.00	0.49	3.94	-48.89	2,355.49	-2,699.09	3,582.38	3,577.95	4.43	809.042		
300.00	300.00	323.00	323.00	0.85	6.01	-48.89	2,355.49	-2,699.09	3,582.38	3,575.52	6.86	522.443		
400.00	400.00	423.00	423.00	1.21	8.04	-48.89	2,355.49	-2,699.09	3,582.38	3,573.12	9.25	387.085		
500.00	500.00	523.00	523.00	1.57	10.07	-48.89	2,355.49	-2,699.09	3,582.38	3,570.74	11.64	307.741		
600.00	600.00	623.00	623.00	1.93	12.09	-48.89	2,355.49	-2,699.09	3,582.38	3,568.36	14.02	255.494		
700.00	700.00	723.00	723.00	2.29	14.11	-48.89	2,355.49	-2,699.09	3,582.38	3,565.98	16.40	218.456		
800.00	800.00	823.00	823.00	2.64	16.13	-48.89	2,355.49	-2,699.09	3,582.38	3,563.60	18.77	190.817		
900.00	900.00	923.00	923.00	3.00	18.15	-48.89	2,355.49	-2,699.09	3,582.38	3,561.23	21.15	169.396		
1,000.00	1,000.00	1,023.00	1,023.00	3.36	20.16	-48.89	2,355.49	-2,699.09	3,582.38	3,558.86	23.52	152.306 CC		
1,100.00	1,099.98	1,122.98	1,122.98	3.71	22.17	-175.89	2,355.49	-2,699.09	3,584.12	3,558.24	25.88	138.495 ES		
1,200.00	1,199.84	1,222.84	1,222.84	4.04	24.18	-175.89	2,355.49	-2,699.09	3,589.34	3,561.11	28.23	127.168		
1,300.00	1,299.45	1,322.45	1,322.45	4.39	26.19	-175.89	2,355.49	-2,699.09	3,598.03	3,567.46	30.57	117.697		
1,400.00	1,398.70	1,421.70	1,421.70	4.74	28.19	-175.89	2,355.49	-2,699.09	3,610.19	3,577.27	32.91	109.694		
1,500.00	1,497.47	1,520.47	1,520.47	5.12	30.17	-175.88	2,355.49	-2,699.09	3,625.79	3,590.54	35.25	102.872		
1,600.00	1,595.62	1,618.62	1,618.62	5.51	32.15	-175.87	2,355.49	-2,699.09	3,644.82	3,607.25	37.57	97.014		
1,700.00	1,693.06	1,716.06	1,716.06	5.94	34.11	-175.87	2,355.49	-2,699.09	3,667.26	3,627.38	39.88	91.952		
1,800.00	1,789.64	1,812.64	1,812.64	6.39	36.05	-175.86	2,355.49	-2,699.09	3,693.08	3,650.90	42.18	87.555		
1,863.26	1,850.25	1,873.25	1,873.25	6.70	37.27	-175.85	2,355.49	-2,699.09	3,711.14	3,667.51	43.63	85.066		
1,900.00	1,885.34	1,908.34	1,908.34	6.89	37.98	-175.86	2,355.49	-2,699.09	3,722.02	3,677.56	44.46	83.709		
2,000.00	1,980.83	2,003.83	2,003.83	7.41	39.90	-175.90	2,355.49	-2,699.09	3,751.63	3,704.89	46.74	80.267		
2,100.00	2,076.33	2,100.67	2,099.33	7.95	41.85	-175.93	2,355.49	-2,699.09	3,781.24	3,732.19	49.05	77.096		
2,200.00	2,171.82	2,205.18	2,194.82	8.50	43.95	-175.96	2,355.49	-2,699.09	3,810.85	3,759.34	51.51	73.981		
2,300.00	2,267.32	2,309.68	2,290.32	9.07	46.05	-175.99	2,355.49	-2,699.09	3,840.46	3,786.48	53.98	71.146		
2,400.00	2,362.81	2,385.81	2,385.81	9.64	47.58	-176.02	2,355.49	-2,699.09	3,870.08	3,814.20	55.88	69.256		
2,500.00	2,458.30	2,481.30	2,481.30	10.22	49.51	-176.05	2,355.49	-2,699.09	3,899.69	3,841.52	58.17	67.036		
2,600.00	2,553.80	2,576.80	2,576.80	10.81	51.43	-176.08	2,355.49	-2,699.09	3,929.31	3,868.84	60.47	64.981		
2,700.00	2,649.29	2,672.29	2,672.29	11.41	53.35	-176.11	2,355.49	-2,699.09	3,958.92	3,896.16	62.77	63.074		
2,800.00	2,744.79	2,767.79	2,767.79	12.01	55.27	-176.14	2,355.49	-2,699.09	3,988.54	3,923.48	65.07	61.301		
2,900.00	2,840.28	2,863.28	2,863.28	12.61	57.19	-176.17	2,355.49	-2,699.09	4,018.16	3,950.80	67.37	59.647		
3,000.00	2,935.77	2,958.77	2,958.77	13.22	59.11	-176.20	2,355.49	-2,699.09	4,047.78	3,978.11	69.67	58.101		
3,100.00	3,031.27	3,054.27	3,054.27	13.83	61.03	-176.22	2,355.49	-2,699.09	4,077.40	4,005.43	71.97	56.653		
3,200.00	3,126.76	3,149.76	3,149.76	14.44	62.95	-176.25	2,355.49	-2,699.09	4,107.02	4,032.75	74.28	55.294		
3,300.00	3,222.26	3,245.26	3,245.26	15.06	64.87	-176.28	2,355.49	-2,699.09	4,136.64	4,060.06	76.58	54.016		
3,400.00	3,317.75	3,340.75	3,340.75	15.68	66.79	-176.30	2,355.49	-2,699.09	4,166.27	4,087.38	78.89	52.812		
3,500.00	3,413.25	3,436.25	3,436.25	16.30	68.71	-176.33	2,355.49	-2,699.09	4,195.89	4,114.70	81.20	51.677		
3,600.00	3,508.74	3,531.74	3,531.74	16.92	70.63	-176.36	2,355.49	-2,699.09	4,225.51	4,142.01	83.50	50.603		
3,700.00	3,604.23	3,627.23	3,627.23	17.54	72.55	-176.38	2,355.49	-2,699.09	4,255.14	4,169.33	85.81	49.587		
3,800.00	3,699.73	3,722.73	3,722.73	18.17	74.47	-176.41	2,355.49	-2,699.09	4,284.77	4,196.64	88.12	48.623		
3,900.00	3,795.22	3,818.22	3,818.22	18.79	76.39	-176.43	2,355.49	-2,699.09	4,314.39	4,223.96	90.43	47.709		
4,000.00	3,890.72	3,913.72	3,913.72	19.42	78.32	-176.46	2,355.49	-2,699.09	4,344.02	4,251.28	92.74	46.839		
4,100.00	3,986.21	4,009.21	4,009.21	20.05	80.24	-176.48	2,355.49	-2,699.09	4,373.65	4,278.59	95.05	46.012		
4,200.00	4,081.70	4,104.70	4,104.70	20.67	82.16	-176.50	2,355.49	-2,699.09	4,403.28	4,305.91	97.37	45.224		
4,300.00	4,177.20	4,200.20	4,200.20	21.30	84.08	-176.53	2,355.49	-2,699.09	4,432.91	4,333.23	99.68	44.472		
4,400.00	4,272.69	4,304.31	4,295.69	21.93	86.17	-176.55	2,355.49	-2,699.09	4,462.54	4,360.37	102.16	43.680		
4,500.00	4,368.19	4,408.81	4,391.19	22.56	88.27	-176.57	2,355.49	-2,699.09	4,492.17	4,387.51	104.66	42.922		
4,600.00	4,463.68	4,486.68	4,486.68	23.19	89.84	-176.60	2,355.49	-2,699.09	4,521.80	4,415.18	106.62	42.411		
4,700.00	4,559.17	4,582.17	4,582.17	23.83	91.76	-176.62	2,355.49	-2,699.09	4,551.43	4,442.50	108.93	41.782		
4,800.00	4,654.67	4,677.67	4,677.67	24.46	93.68	-176.64	2,355.49	-2,699.09	4,581.06	4,469.82	111.25	41.179		
4,900.00	4,750.16	4,773.16	4,773.16	25.09	95.60	-176.66	2,355.49	-2,699.09	4,610.70	4,497.14	113.56	40.601		
5,000.00	4,845.66	4,868.66	4,868.66	25.72	97.52	-176.68	2,355.49	-2,699.09	4,640.33	4,524.45	115.88	40.046		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,964.15	4,964.15	26.36	99.44	-176.70	2,355.49	-2,699.09	4,669.96	4,551.77	118.19	39.512		
5,200.00	5,036.65	5,059.65	5,059.65	26.99	101.36	-176.72	2,355.49	-2,699.09	4,699.60	4,579.09	120.51	38.999		
5,300.00	5,132.14	5,155.14	5,155.14	27.63	103.28	-176.74	2,355.49	-2,699.09	4,729.24	4,606.41	122.82	38.505		
5,400.00	5,227.63	5,250.63	5,250.63	28.26	105.20	-176.77	2,355.49	-2,699.09	4,758.87	4,633.73	125.14	38.029		
5,500.00	5,323.13	5,346.13	5,346.13	28.90	107.12	-176.79	2,355.49	-2,699.09	4,788.51	4,661.05	127.45	37.570		
5,600.00	5,418.62	5,441.62	5,441.62	29.53	109.04	-176.80	2,355.49	-2,699.09	4,818.15	4,688.37	129.77	37.128		
5,700.00	5,514.12	5,537.12	5,537.12	30.17	110.96	-176.82	2,355.49	-2,699.09	4,847.78	4,715.70	132.09	36.701		
5,800.00	5,609.61	5,632.61	5,632.61	30.80	112.88	-176.84	2,355.49	-2,699.09	4,877.42	4,743.02	134.40	36.289		
5,900.00	5,705.10	5,728.10	5,728.10	31.44	114.80	-176.86	2,355.49	-2,699.09	4,907.06	4,770.34	136.72	35.891		
6,000.00	5,800.60	5,823.60	5,823.60	32.08	116.72	-176.88	2,355.49	-2,699.09	4,936.70	4,797.66	139.04	35.506		
6,100.00	5,896.09	5,919.09	5,919.09	32.71	118.64	-176.90	2,355.49	-2,699.09	4,966.34	4,824.98	141.36	35.133		
6,200.00	5,991.59	6,014.59	6,014.59	33.35	120.57	-176.92	2,355.49	-2,699.09	4,995.98	4,852.30	143.68	34.773		
6,300.00	6,087.08	6,110.08	6,110.08	33.99	122.49	-176.94	2,355.49	-2,699.09	5,025.62	4,879.63	145.99	34.424		
6,400.00	6,182.57	6,205.57	6,205.57	34.62	124.41	-176.95	2,355.49	-2,699.09	5,055.26	4,906.95	148.31	34.085		
6,499.99	6,278.06	6,301.06	6,301.06	35.26	126.33	-176.97	2,355.49	-2,699.09	5,084.90	4,934.27	150.63	33.758		
6,505.95	6,283.75	6,306.75	6,306.75	35.30	126.44	-176.97	2,355.49	-2,699.09	5,086.66	4,935.90	150.77	33.738		
6,600.00	6,374.00	6,403.00	6,397.00	35.88	128.38	-177.02	2,355.49	-2,699.09	5,113.07	4,959.99	153.07	33.402		
6,700.00	6,470.87	6,506.14	6,493.87	36.44	130.45	-177.06	2,355.49	-2,699.09	5,137.88	4,982.34	155.54	33.033		
6,800.00	6,568.53	6,608.47	6,591.53	36.96	132.51	-177.09	2,355.49	-2,699.09	5,159.30	5,001.32	157.97	32.659		
6,900.00	6,666.89	6,689.89	6,689.89	37.43	134.15	-177.12	2,355.49	-2,699.09	5,177.30	5,017.31	159.98	32.361		
7,000.00	6,765.82	6,788.82	6,788.82	37.85	136.14	-177.14	2,355.49	-2,699.09	5,191.86	5,029.52	162.34	31.982		
7,100.00	6,865.19	6,888.19	6,888.19	38.22	138.13	-177.16	2,355.49	-2,699.09	5,202.96	5,038.28	164.69	31.593		
7,200.00	6,964.89	6,987.89	6,987.89	38.55	140.14	-177.17	2,355.49	-2,699.09	5,210.60	5,043.56	167.03	31.195		
7,300.00	7,064.80	7,087.80	7,087.80	38.83	142.15	-177.18	2,355.49	-2,699.09	5,214.75	5,045.38	169.37	30.788		
7,369.20	7,134.00	7,157.00	7,157.00	39.00	143.54	-50.18	2,355.49	-2,699.09	5,215.59	5,044.61	170.98	30.504		
7,400.00	7,164.80	7,187.80	7,187.80	39.06	144.16	-50.18	2,355.49	-2,699.09	5,215.59	5,043.90	171.69	30.377		
7,469.20	7,234.00	7,257.00	7,257.00	39.22	145.55	-50.18	2,355.49	-2,699.09	5,215.59	5,042.30	173.29	30.097		
7,500.00	7,264.78	7,287.78	7,287.78	39.29	146.17	130.14	2,355.49	-2,699.09	5,216.12	5,042.12	174.01	29.977		
7,550.00	7,314.53	7,337.53	7,337.53	39.44	147.17	129.94	2,355.49	-2,699.09	5,219.26	5,044.09	175.17	29.795		
7,600.00	7,363.66	7,386.66	7,386.66	39.62	148.16	129.55	2,355.49	-2,699.09	5,225.19	5,048.86	176.33	29.633		
7,650.00	7,411.81	7,434.81	7,434.81	39.82	149.13	128.98	2,355.49	-2,699.09	5,233.88	5,056.41	177.47	29.491		
7,700.00	7,458.61	7,481.61	7,481.61	40.06	150.07	128.21	2,355.49	-2,699.09	5,245.28	5,066.69	178.59	29.370		
7,750.00	7,503.69	7,526.69	7,526.69	40.32	150.97	127.22	2,355.49	-2,699.09	5,259.34	5,079.66	179.68	29.271		
7,800.00	7,546.72	7,569.72	7,569.72	40.60	151.84	126.01	2,355.49	-2,699.09	5,275.97	5,095.24	180.72	29.194		
7,850.00	7,587.38	7,610.38	7,610.38	40.92	152.66	124.55	2,355.49	-2,699.09	5,295.07	5,113.35	181.72	29.139		
7,900.00	7,625.34	7,648.34	7,648.34	41.25	153.42	122.82	2,355.49	-2,699.09	5,316.53	5,133.88	182.65	29.108		
7,950.00	7,660.33	7,683.33	7,683.33	41.61	154.12	120.79	2,355.49	-2,699.09	5,340.22	5,156.70	183.52	29.099 SF		
8,000.00	7,692.07	7,715.07	7,715.07	42.00	154.76	118.44	2,355.49	-2,699.09	5,366.00	5,181.68	184.32	29.113		
8,050.00	7,720.33	7,743.33	7,743.33	42.40	155.33	115.74	2,355.49	-2,699.09	5,393.69	5,208.66	185.03	29.150		
8,100.00	7,744.89	7,767.89	7,767.89	42.83	155.82	112.68	2,355.49	-2,699.09	5,423.12	5,237.46	185.67	29.209		
8,150.00	7,765.56	7,788.56	7,788.56	43.27	156.24	109.23	2,355.49	-2,699.09	5,454.09	5,267.88	186.21	29.290		
8,200.00	7,782.18	7,805.18	7,805.18	43.74	156.57	105.40	2,355.49	-2,699.09	5,486.38	5,299.72	186.66	29.393		
8,250.00	7,794.63	7,817.63	7,817.63	44.22	156.82	101.20	2,355.49	-2,699.09	5,519.76	5,332.75	187.01	29.516		
8,300.00	7,802.82	7,825.82	7,825.82	44.71	156.99	96.68	2,355.49	-2,699.09	5,553.99	5,366.73	187.26	29.659		
8,350.00	7,806.68	7,829.68	7,829.68	45.21	157.07	91.89	2,355.49	-2,699.09	5,588.81	5,401.40	187.41	29.821		
8,369.28	7,807.00	7,830.00	7,830.00	45.40	157.07	90.00	2,355.49	-2,699.09	5,602.34	5,414.90	187.44	29.888		
8,400.00	7,807.00	7,830.00	7,830.00	45.72	157.07	90.00	2,355.49	-2,699.09	5,623.97	5,436.49	187.48	29.997		
8,500.00	7,807.00	7,830.00	7,830.00	46.77	157.07	90.00	2,355.49	-2,699.09	5,694.97	5,507.35	187.62	30.354		
8,600.00	7,807.00	7,830.00	7,830.00	47.86	157.07	90.00	2,355.49	-2,699.09	5,766.83	5,579.05	187.78	30.711		
8,700.00	7,807.00	7,830.00	7,830.00	48.99	157.07	90.00	2,355.49	-2,699.09	5,839.51	5,651.56	187.95	31.069		
8,800.00	7,806.99	7,829.99	7,829.99	50.16	157.07	90.00	2,355.49	-2,699.09	5,912.99	5,724.85	188.14	31.428		
8,900.00	7,806.99	7,829.99	7,829.99	51.37	157.07	90.00	2,355.49	-2,699.09	5,987.24	5,798.90	188.34	31.789		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,829.99	7,829.99	52.60	157.07	90.00	2,355.49	-2,699.09	6,062.23	5,873.68	188.56	32.151		
9,100.00	7,806.99	7,829.99	7,829.99	53.87	157.07	90.00	2,355.49	-2,699.09	6,137.94	5,949.16	188.78	32.514		
9,200.00	7,806.99	7,829.99	7,829.99	55.17	157.07	90.00	2,355.49	-2,699.09	6,214.33	6,025.32	189.01	32.878		
9,300.00	7,806.99	7,829.99	7,829.99	56.49	157.07	90.00	2,355.49	-2,699.09	6,291.38	6,102.13	189.25	33.243		
9,400.00	7,806.99	7,829.99	7,829.99	57.83	157.07	90.00	2,355.49	-2,699.09	6,369.07	6,179.57	189.50	33.610		
9,500.00	7,806.99	7,829.99	7,829.99	59.20	157.07	90.00	2,355.49	-2,699.09	6,447.38	6,257.63	189.75	33.978		
9,600.00	7,806.98	7,829.98	7,829.98	60.59	157.07	90.00	2,355.49	-2,699.09	6,526.28	6,336.27	190.01	34.347		
9,700.00	7,806.98	7,829.98	7,829.98	62.00	157.07	90.00	2,355.49	-2,699.09	6,605.75	6,415.48	190.27	34.718		
9,800.00	7,806.98	7,829.98	7,829.98	63.43	157.07	90.00	2,355.49	-2,699.09	6,685.77	6,495.23	190.53	35.090		
9,900.00	7,806.98	7,829.98	7,829.98	64.87	157.07	90.00	2,355.49	-2,699.09	6,766.32	6,575.52	190.80	35.463		
10,000.00	7,806.98	7,829.98	7,829.98	66.34	157.07	90.00	2,355.49	-2,699.09	6,847.39	6,656.32	191.07	35.837		
10,100.00	7,806.98	7,829.98	7,829.98	67.81	157.07	90.00	2,355.49	-2,699.09	6,928.95	6,737.61	191.34	36.213		
10,200.00	7,806.98	7,829.98	7,829.98	69.30	157.07	90.00	2,355.49	-2,699.09	7,010.98	6,819.38	191.61	36.590		
10,300.00	7,806.98	7,829.98	7,829.98	70.81	157.07	90.00	2,355.49	-2,699.09	7,093.48	6,901.60	191.88	36.969		
10,400.00	7,806.97	7,829.97	7,829.97	72.32	157.07	90.00	2,355.49	-2,699.09	7,176.43	6,984.28	192.15	37.348		
10,500.00	7,806.97	7,829.97	7,829.97	73.85	157.07	90.00	2,355.49	-2,699.09	7,259.80	7,067.38	192.42	37.729		
10,600.00	7,806.97	7,829.97	7,829.97	75.39	157.07	90.00	2,355.49	-2,699.09	7,343.59	7,150.90	192.69	38.111		
10,700.00	7,806.97	7,829.97	7,829.97	76.94	157.07	90.00	2,355.49	-2,699.09	7,427.78	7,234.82	192.96	38.495		
10,800.00	7,806.97	7,829.97	7,829.97	78.49	157.07	90.00	2,355.49	-2,699.09	7,512.36	7,319.13	193.22	38.879		
10,900.00	7,806.97	7,829.97	7,829.97	80.06	157.07	90.00	2,355.49	-2,699.09	7,597.31	7,403.82	193.49	39.265		
11,000.00	7,806.97	7,829.97	7,829.97	81.64	157.07	90.00	2,355.49	-2,699.09	7,682.62	7,488.87	193.75	39.652		
11,100.00	7,806.97	7,829.97	7,829.97	83.22	157.07	90.00	2,355.49	-2,699.09	7,768.29	7,574.27	194.01	40.040		
11,200.00	7,806.96	7,829.96	7,829.96	84.81	157.07	90.00	2,355.49	-2,699.09	7,854.29	7,660.02	194.27	40.429		
11,300.00	7,806.96	7,829.96	7,829.96	86.41	157.07	90.00	2,355.49	-2,699.09	7,940.62	7,746.09	194.53	40.819		
11,400.00	7,806.96	7,829.96	7,829.96	88.01	157.07	90.00	2,355.49	-2,699.09	8,027.27	7,832.49	194.79	41.210		
11,500.00	7,806.96	7,829.96	7,829.96	89.63	157.07	90.00	2,355.49	-2,699.09	8,114.23	7,919.19	195.04	41.603		
11,600.00	7,806.96	7,829.96	7,829.96	91.24	157.07	90.00	2,355.49	-2,699.09	8,201.48	8,006.19	195.29	41.996		
11,700.00	7,806.96	7,829.96	7,829.96	92.87	157.07	90.00	2,355.49	-2,699.09	8,289.02	8,093.48	195.54	42.390		
11,800.00	7,806.96	7,829.96	7,829.96	94.49	157.07	90.00	2,355.49	-2,699.09	8,376.84	8,181.06	195.79	42.785		
11,900.00	7,806.95	7,829.95	7,829.95	96.13	157.07	90.00	2,355.49	-2,699.09	8,464.93	8,268.90	196.03	43.182		
12,000.00	7,806.95	7,829.95	7,829.95	97.77	157.07	90.00	2,355.49	-2,699.09	8,553.29	8,357.02	196.27	43.579		
12,100.00	7,806.95	7,829.95	7,829.95	99.41	157.07	90.00	2,355.49	-2,699.09	8,641.89	8,445.38	196.51	43.977		
12,200.00	7,806.95	7,829.95	7,829.95	101.06	157.07	90.00	2,355.49	-2,699.09	8,730.75	8,534.00	196.75	44.376		
12,300.00	7,806.95	7,829.95	7,829.95	102.71	157.07	90.00	2,355.49	-2,699.09	8,819.84	8,622.86	196.98	44.775		
12,400.00	7,806.95	7,829.95	7,829.95	104.37	157.07	90.00	2,355.49	-2,699.09	8,909.16	8,711.95	197.21	45.176		
12,500.00	7,806.95	7,829.95	7,829.95	106.02	157.07	90.00	2,355.49	-2,699.09	8,998.71	8,801.27	197.44	45.577		
12,600.00	7,806.95	7,829.95	7,829.95	107.69	157.07	90.00	2,355.49	-2,699.09	9,088.47	8,890.81	197.67	45.979		
12,700.00	7,806.94	7,829.94	7,829.94	109.35	157.07	90.00	2,355.49	-2,699.09	9,178.45	8,980.56	197.89	46.382		
12,800.00	7,806.94	7,829.94	7,829.94	111.02	157.07	90.00	2,355.49	-2,699.09	9,268.63	9,070.52	198.11	46.785		
12,900.00	7,806.94	7,829.94	7,829.94	112.70	157.07	90.00	2,355.49	-2,699.09	9,359.01	9,160.68	198.33	47.189		
13,000.00	7,806.94	7,829.94	7,829.94	114.37	157.07	90.00	2,355.49	-2,699.09	9,449.59	9,251.04	198.54	47.594		
13,100.00	7,806.94	7,829.94	7,829.94	116.05	157.07	90.00	2,355.49	-2,699.09	9,540.35	9,341.59	198.76	48.000		
13,200.00	7,806.94	7,829.94	7,829.94	117.74	157.07	90.00	2,355.49	-2,699.09	9,631.30	9,432.33	198.97	48.406		
13,300.00	7,806.94	7,829.94	7,829.94	119.42	157.07	90.00	2,355.49	-2,699.09	9,722.42	9,523.25	199.18	48.812		
13,400.00	7,806.94	7,829.94	7,829.94	121.11	157.07	90.00	2,355.49	-2,699.09	9,813.72	9,614.34	199.39	49.220		
13,500.00	7,806.93	7,829.93	7,829.93	122.80	157.07	90.00	2,355.49	-2,699.09	9,905.19	9,705.60	199.59	49.628		
13,600.00	7,806.93	7,829.93	7,829.93	124.49	157.07	90.00	2,355.49	-2,699.09	9,996.82	9,797.02	199.79	50.036		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	3.00	3.00	0.00	0.04	91.55	-14.26	528.30	528.49					
100.00	100.00	103.00	103.00	0.13	1.25	91.55	-14.26	528.30	528.49	527.10	1.39	380.724		
200.00	200.00	203.00	203.00	0.49	3.54	91.55	-14.26	528.30	528.49	524.46	4.03	131.049		
300.00	300.00	303.00	303.00	0.85	5.62	91.55	-14.26	528.30	528.49	522.02	6.47	81.699		
400.00	400.00	403.00	403.00	1.21	7.66	91.55	-14.26	528.30	528.49	519.62	8.87	59.588		
500.00	500.00	503.00	503.00	1.57	9.69	91.55	-14.26	528.30	528.49	517.23	11.26	46.950		
600.00	600.00	603.00	603.00	1.93	11.71	91.55	-14.26	528.30	528.49	514.85	13.64	38.752		
700.00	700.00	703.00	703.00	2.29	13.73	91.55	-14.26	528.30	528.49	512.47	16.02	32.999		
800.00	800.00	803.00	803.00	2.64	15.75	91.55	-14.26	528.30	528.49	510.10	18.39	28.737		
900.00	900.00	903.00	903.00	3.00	17.76	91.55	-14.26	528.30	528.49	507.72	20.76	25.451		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	91.55	-14.26	528.30	528.49	505.35	23.14	22.841		
1,100.00	1,099.98	1,102.98	1,102.98	3.71	21.79	-35.59	-14.26	528.30	527.07	501.57	25.50	20.672		
1,200.00	1,199.84	1,202.84	1,202.84	4.04	23.80	-35.97	-14.26	528.30	522.82	494.98	27.84	18.778		
1,300.00	1,299.45	1,302.45	1,302.45	4.39	25.81	-36.62	-14.26	528.30	515.79	485.60	30.19	17.086		
1,400.00	1,398.70	1,401.70	1,401.70	4.74	27.80	-37.56	-14.26	528.30	506.04	473.50	32.53	15.555		
1,500.00	1,497.47	1,500.47	1,500.47	5.12	29.79	-38.82	-14.26	528.30	493.68	458.81	34.88	14.155		
1,600.00	1,595.62	1,601.38	1,598.62	5.51	31.82	-40.43	-14.26	528.30	478.88	441.60	37.28	12.846		
1,700.00	1,693.06	1,703.94	1,696.06	5.94	33.89	-42.45	-14.26	528.30	461.82	422.09	39.73	11.625		
1,800.00	1,789.64	1,807.36	1,792.64	6.39	35.97	-44.95	-14.26	528.30	442.80	400.58	42.22	10.488		
1,863.26	1,850.25	1,853.25	1,853.25	6.70	36.89	-46.81	-14.26	528.30	429.92	386.50	43.42	9.901		
1,900.00	1,885.34	1,888.34	1,888.34	6.89	37.60	-47.86	-14.26	528.30	422.35	378.05	44.29	9.535		
2,000.00	1,980.83	1,983.83	1,983.83	7.41	39.52	-50.91	-14.26	528.30	402.51	355.82	46.69	8.620		
2,100.00	2,076.33	2,079.33	2,079.33	7.95	41.44	-54.25	-14.26	528.30	383.95	334.82	49.12	7.816		
2,200.00	2,171.82	2,174.82	2,174.82	8.50	43.36	-57.89	-14.26	528.30	366.85	315.25	51.59	7.110		
2,300.00	2,267.32	2,270.32	2,270.32	9.07	45.28	-61.85	-14.26	528.30	351.42	297.33	54.09	6.497		
2,400.00	2,362.81	2,365.81	2,365.81	9.64	47.20	-66.13	-14.26	528.30	337.91	281.29	56.63	5.967		
2,500.00	2,458.30	2,461.30	2,461.30	10.22	49.12	-70.70	-14.26	528.30	326.54	267.36	59.18	5.518		
2,600.00	2,553.80	2,556.80	2,556.80	10.81	51.04	-75.55	-14.26	528.30	317.55	255.80	61.75	5.142		
2,700.00	2,649.29	2,652.29	2,652.29	11.41	52.96	-80.62	-14.26	528.30	311.14	246.82	64.33	4.837		
2,800.00	2,744.79	2,747.79	2,747.79	12.01	54.89	-85.84	-14.26	528.30	307.48	240.59	66.89	4.597		
2,878.72	2,819.96	2,822.96	2,822.96	12.48	56.40	-90.00	-14.26	528.30	306.59	237.71	68.88	4.451 CC		
2,900.00	2,840.28	2,843.28	2,843.28	12.61	56.81	-91.13	-14.26	528.30	306.65	237.24	69.42	4.418		
3,000.00	2,935.77	2,938.77	2,938.77	13.22	58.73	-96.40	-14.26	528.30	308.69	236.79	71.91	4.293 ES		
3,100.00	3,031.27	3,034.27	3,034.27	13.83	60.65	-101.56	-14.26	528.30	313.54	239.19	74.35	4.217		
3,200.00	3,126.76	3,129.76	3,129.76	14.44	62.57	-106.54	-14.26	528.30	321.08	244.33	76.75	4.184 SF		
3,300.00	3,222.26	3,225.26	3,225.26	15.06	64.49	-111.28	-14.26	528.30	331.10	252.01	79.09	4.186		
3,400.00	3,317.75	3,320.75	3,320.75	15.68	66.41	-115.73	-14.26	528.30	343.41	262.02	81.39	4.219		
3,500.00	3,413.25	3,416.25	3,416.25	16.30	68.33	-119.87	-14.26	528.30	357.77	274.10	83.66	4.276		
3,600.00	3,508.74	3,511.74	3,511.74	16.92	70.25	-123.69	-14.26	528.30	373.93	288.02	85.91	4.353		
3,700.00	3,604.23	3,607.23	3,607.23	17.54	72.17	-127.21	-14.26	528.30	391.68	303.54	88.13	4.444		
3,800.00	3,699.73	3,702.73	3,702.73	18.17	74.09	-130.42	-14.26	528.30	410.81	320.46	90.35	4.547		
3,900.00	3,795.22	3,801.78	3,798.22	18.79	76.08	-133.35	-14.26	528.30	431.13	338.50	92.63	4.654		
4,000.00	3,890.72	3,906.28	3,893.72	19.42	78.19	-136.03	-14.26	528.30	452.49	357.47	95.01	4.762		
4,100.00	3,986.21	3,989.21	3,989.21	20.05	79.85	-138.47	-14.26	528.30	474.74	377.78	96.97	4.896		
4,200.00	4,081.70	4,084.70	4,084.70	20.67	81.77	-140.69	-14.26	528.30	497.77	398.60	99.18	5.019		
4,300.00	4,177.20	4,180.20	4,180.20	21.30	83.69	-142.73	-14.26	528.30	521.47	420.09	101.39	5.143		
4,400.00	4,272.69	4,275.69	4,275.69	21.93	85.62	-144.58	-14.26	528.30	545.76	442.16	103.60	5.268		
4,500.00	4,368.19	4,371.19	4,371.19	22.56	87.54	-146.29	-14.26	528.30	570.56	464.73	105.83	5.391		
4,600.00	4,463.68	4,466.68	4,466.68	23.19	89.46	-147.85	-14.26	528.30	595.80	487.75	108.05	5.514		
4,700.00	4,559.17	4,562.17	4,562.17	23.83	91.38	-149.29	-14.26	528.30	621.44	511.15	110.29	5.635		
4,800.00	4,654.67	4,657.67	4,657.67	24.46	93.30	-150.62	-14.26	528.30	647.42	534.90	112.52	5.754		
4,900.00	4,750.16	4,753.16	4,753.16	25.09	95.22	-151.85	-14.26	528.30	673.71	558.94	114.76	5.870		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,845.66	4,848.66	4,848.66	25.72	97.14	-152.98	-14.26	528.30	700.27	583.26	117.01	5.985	
5,100.00	4,941.15	4,944.15	4,944.15	26.36	99.06	-154.03	-14.26	528.30	727.07	607.80	119.26	6.096	
5,200.00	5,036.65	5,039.65	5,039.65	26.99	100.98	-155.01	-14.26	528.30	754.08	632.56	121.52	6.205	
5,300.00	5,132.14	5,135.14	5,135.14	27.63	102.90	-155.93	-14.26	528.30	781.29	657.51	123.78	6.312	
5,400.00	5,227.63	5,230.63	5,230.63	28.26	104.82	-156.78	-14.26	528.30	808.67	682.63	126.04	6.416	
5,500.00	5,323.13	5,326.13	5,326.13	28.90	106.74	-157.58	-14.26	528.30	836.21	707.91	128.31	6.517	
5,600.00	5,418.62	5,421.62	5,421.62	29.53	108.66	-158.32	-14.26	528.30	863.90	733.32	130.58	6.616	
5,700.00	5,514.12	5,517.12	5,517.12	30.17	110.58	-159.02	-14.26	528.30	891.71	758.85	132.85	6.712	
5,800.00	5,609.61	5,612.61	5,612.61	30.80	112.50	-159.68	-14.26	528.30	919.63	784.51	135.13	6.806	
5,900.00	5,705.10	5,708.10	5,708.10	31.44	114.42	-160.30	-14.26	528.30	947.67	810.26	137.40	6.897	
6,000.00	5,800.60	5,803.60	5,803.60	32.08	116.34	-160.89	-14.26	528.30	975.80	836.11	139.68	6.986	
6,100.00	5,896.09	5,900.91	5,899.09	32.71	118.30	-161.44	-14.26	528.30	1,004.02	862.01	142.00	7.070	
6,200.00	5,991.59	6,005.41	5,994.59	33.35	120.40	-161.96	-14.26	528.30	1,032.32	887.85	144.47	7.146	
6,300.00	6,087.08	6,109.92	6,090.08	33.99	122.50	-162.45	-14.26	528.30	1,060.69	913.76	146.94	7.219	
6,400.00	6,182.57	6,185.57	6,185.57	34.62	124.02	-162.92	-14.26	528.30	1,089.14	940.31	148.83	7.318	
6,499.99	6,278.06	6,281.06	6,281.06	35.26	125.94	-163.37	-14.26	528.30	1,117.65	966.53	151.12	7.396	
6,505.95	6,283.75	6,286.75	6,286.75	35.30	126.06	-163.39	-14.26	528.30	1,119.35	968.09	151.25	7.400	
6,600.00	6,374.00	6,377.00	6,377.00	35.88	127.87	-163.92	-14.26	528.30	1,144.80	991.38	153.42	7.462	
6,700.00	6,470.87	6,473.87	6,473.87	36.44	129.82	-164.39	-14.26	528.30	1,168.75	1,013.02	155.73	7.505	
6,800.00	6,568.53	6,571.53	6,571.53	36.96	131.79	-164.78	-14.26	528.30	1,189.46	1,031.41	158.05	7.526	
6,900.00	6,666.89	6,669.89	6,669.89	37.43	133.76	-165.09	-14.26	528.30	1,206.88	1,046.50	160.38	7.525	
7,000.00	6,765.82	6,768.82	6,768.82	37.85	135.75	-165.34	-14.26	528.30	1,220.99	1,058.27	162.71	7.504	
7,100.00	6,865.19	6,868.19	6,868.19	38.22	137.75	-165.53	-14.26	528.30	1,231.75	1,066.70	165.05	7.463	
7,200.00	6,964.89	6,967.89	6,967.89	38.55	139.76	-165.65	-14.26	528.30	1,239.16	1,071.77	167.38	7.403	
7,300.00	7,064.80	7,067.80	7,067.80	38.83	141.77	-165.72	-14.26	528.30	1,243.19	1,073.48	169.71	7.325	
7,369.20	7,134.00	7,137.00	7,137.00	39.00	143.16	-38.73	-14.26	528.30	1,244.00	1,072.68	171.31	7.261	
7,400.00	7,164.80	7,167.80	7,167.80	39.06	143.78	-38.73	-14.26	528.30	1,244.00	1,071.97	172.02	7.232	
7,469.20	7,234.00	7,237.00	7,237.00	39.22	145.17	-38.73	-14.26	528.30	1,244.00	1,070.38	173.62	7.165	
7,500.00	7,264.78	7,267.78	7,267.78	39.29	145.79	141.60	-14.26	528.30	1,244.65	1,070.31	174.33	7.139	
7,550.00	7,314.53	7,317.53	7,317.53	39.44	146.79	141.50	-14.26	528.30	1,248.46	1,072.96	175.50	7.114	
7,600.00	7,363.66	7,366.66	7,366.66	39.62	147.78	141.31	-14.26	528.30	1,255.68	1,079.02	176.67	7.108	
7,650.00	7,411.81	7,414.81	7,414.81	39.82	148.74	141.00	-14.26	528.30	1,266.29	1,088.47	177.82	7.121	
7,700.00	7,458.61	7,461.61	7,461.61	40.06	149.69	140.57	-14.26	528.30	1,280.26	1,101.30	178.96	7.154	
7,750.00	7,503.69	7,506.69	7,506.69	40.32	150.59	139.98	-14.26	528.30	1,297.54	1,117.47	180.06	7.206	
7,800.00	7,546.72	7,549.72	7,549.72	40.60	151.46	139.20	-14.26	528.30	1,318.05	1,136.93	181.13	7.277	
7,850.00	7,587.38	7,609.62	7,590.38	40.92	152.66	138.19	-14.26	528.30	1,341.73	1,159.20	182.53	7.351	
7,900.00	7,625.34	7,628.34	7,628.34	41.25	153.04	136.89	-14.26	528.30	1,368.44	1,185.35	183.09	7.474	
7,950.00	7,660.33	7,663.33	7,663.33	41.61	153.74	135.23	-14.26	528.30	1,398.05	1,214.08	183.98	7.599	
8,000.00	7,692.07	7,704.93	7,695.07	42.00	154.58	133.12	-14.26	528.30	1,430.39	1,245.41	184.98	7.733	
8,050.00	7,720.33	7,723.33	7,723.33	42.40	154.95	130.45	-14.26	528.30	1,465.27	1,279.76	185.50	7.899	
8,100.00	7,744.89	7,747.89	7,747.89	42.83	155.44	127.07	-14.26	528.30	1,502.44	1,316.31	186.13	8.072	
8,150.00	7,765.56	7,768.56	7,768.56	43.27	155.86	122.82	-14.26	528.30	1,541.65	1,354.99	186.66	8.259	
8,200.00	7,782.18	7,785.18	7,785.18	43.74	156.19	117.50	-14.26	528.30	1,582.62	1,395.53	187.10	8.459	
8,250.00	7,794.63	7,802.37	7,797.63	44.22	156.54	110.93	-14.26	528.30	1,625.05	1,437.53	187.52	8.666	
8,300.00	7,802.82	7,805.82	7,805.82	44.71	156.61	103.00	-14.26	528.30	1,668.59	1,480.95	187.64	8.892	
8,350.00	7,806.68	7,809.68	7,809.68	45.21	156.68	93.81	-14.26	528.30	1,712.92	1,525.16	187.76	9.123	
8,369.28	7,807.00	7,810.00	7,810.00	45.40	156.69	90.00	-14.26	528.30	1,730.15	1,542.37	187.77	9.214	
8,400.00	7,807.00	7,810.00	7,810.00	45.72	156.69	90.00	-14.26	528.30	1,757.69	1,569.90	187.79	9.360	
8,500.00	7,807.00	7,810.00	7,810.00	46.77	156.69	90.00	-14.26	528.30	1,848.04	1,660.21	187.83	9.839	
8,600.00	7,807.00	7,810.00	7,810.00	47.86	156.69	90.00	-14.26	528.30	1,939.34	1,751.47	187.87	10.323	
8,700.00	7,807.00	7,810.00	7,810.00	48.99	156.69	90.00	-14.26	528.30	2,031.46	1,843.55	187.90	10.811	
8,800.00	7,806.99	7,809.99	7,809.99	50.16	156.69	90.00	-14.26	528.30	2,124.29	1,936.35	187.94	11.303	

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-INC															Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis		Distance									Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,809.99	7,809.99	51.37	156.69	90.00	-14.26	528.30	2,217.74	2,029.77	187.97	11.798					
9,000.00	7,806.99	7,809.99	7,809.99	52.60	156.69	90.00	-14.26	528.30	2,311.74	2,123.73	188.01	12.296					
9,100.00	7,806.99	7,809.99	7,809.99	53.87	156.69	90.00	-14.26	528.30	2,406.22	2,218.18	188.04	12.796					
9,200.00	7,806.99	7,809.99	7,809.99	55.17	156.69	90.00	-14.26	528.30	2,501.14	2,313.07	188.07	13.299					
9,300.00	7,806.99	7,809.99	7,809.99	56.49	156.69	90.00	-14.26	528.30	2,596.43	2,408.33	188.11	13.803					
9,400.00	7,806.99	7,809.99	7,809.99	57.83	156.69	90.00	-14.26	528.30	2,692.07	2,503.93	188.14	14.309					
9,500.00	7,806.99	7,809.99	7,809.99	59.20	156.69	90.00	-14.26	528.30	2,788.01	2,599.84	188.17	14.816					
9,600.00	7,806.98	7,809.98	7,809.98	60.59	156.69	90.00	-14.26	528.30	2,884.23	2,696.03	188.20	15.325					
9,700.00	7,806.98	7,809.98	7,809.98	62.00	156.69	90.00	-14.26	528.30	2,980.70	2,792.46	188.24	15.835					
9,800.00	7,806.98	7,809.98	7,809.98	63.43	156.69	90.00	-14.26	528.30	3,077.39	2,889.12	188.27	16.346					
9,900.00	7,806.98	7,809.98	7,809.98	64.87	156.69	90.00	-14.26	528.30	3,174.29	2,985.99	188.30	16.857					
10,000.00	7,806.98	7,809.98	7,809.98	66.34	156.69	90.00	-14.26	528.30	3,271.38	3,083.04	188.34	17.370					
10,100.00	7,806.98	7,809.98	7,809.98	67.81	156.69	90.00	-14.26	528.30	3,368.63	3,180.26	188.37	17.883					
10,200.00	7,806.98	7,809.98	7,809.98	69.30	156.69	90.00	-14.26	528.30	3,466.04	3,277.64	188.41	18.397					
10,300.00	7,806.98	7,809.98	7,809.98	70.81	156.69	90.00	-14.26	528.30	3,563.60	3,375.16	188.44	18.911					
10,400.00	7,806.97	7,809.97	7,809.97	72.32	156.69	90.00	-14.26	528.30	3,661.29	3,472.81	188.48	19.426					
10,500.00	7,806.97	7,809.97	7,809.97	73.85	156.69	90.00	-14.26	528.30	3,759.10	3,570.58	188.51	19.941					
10,600.00	7,806.97	7,809.97	7,809.97	75.39	156.69	90.00	-14.26	528.30	3,857.02	3,668.47	188.55	20.456					
10,700.00	7,806.97	7,809.97	7,809.97	76.94	156.69	90.00	-14.26	528.30	3,955.04	3,766.45	188.59	20.972					
10,800.00	7,806.97	7,809.97	7,809.97	78.49	156.69	90.00	-14.26	528.30	4,053.16	3,864.54	188.63	21.488					
10,900.00	7,806.97	7,809.97	7,809.97	80.06	156.69	90.00	-14.26	528.30	4,151.37	3,962.71	188.66	22.004					
11,000.00	7,806.97	7,809.97	7,809.97	81.64	156.69	90.00	-14.26	528.30	4,249.67	4,060.97	188.70	22.520					
11,100.00	7,806.97	7,809.97	7,809.97	83.22	156.69	90.00	-14.26	528.30	4,348.04	4,159.30	188.74	23.037					
11,200.00	7,806.96	7,809.96	7,809.96	84.81	156.69	90.00	-14.26	528.30	4,446.49	4,257.70	188.78	23.553					
11,300.00	7,806.96	7,809.96	7,809.96	86.41	156.69	90.00	-14.26	528.30	4,545.00	4,356.18	188.82	24.070					
11,400.00	7,806.96	7,809.96	7,809.96	88.01	156.69	90.00	-14.26	528.30	4,643.57	4,454.71	188.86	24.587					
11,500.00	7,806.96	7,809.96	7,809.96	89.63	156.69	90.00	-14.26	528.30	4,742.21	4,553.30	188.91	25.103					
11,600.00	7,806.96	7,809.96	7,809.96	91.24	156.69	90.00	-14.26	528.30	4,840.90	4,651.95	188.95	25.620					
11,700.00	7,806.96	7,809.96	7,809.96	92.87	156.69	90.00	-14.26	528.30	4,939.65	4,750.65	188.99	26.137					
11,800.00	7,806.96	7,809.96	7,809.96	94.49	156.69	90.00	-14.26	528.30	5,038.44	4,849.40	189.04	26.653					
11,900.00	7,806.95	7,809.95	7,809.95	96.13	156.69	90.00	-14.26	528.30	5,137.28	4,948.20	189.08	27.170					
12,000.00	7,806.95	7,809.95	7,809.95	97.77	156.69	90.00	-14.26	528.30	5,236.17	5,047.04	189.13	27.686					
12,100.00	7,806.95	7,809.95	7,809.95	99.41	156.69	89.99	-14.26	528.30	5,335.09	5,145.92	189.17	28.202					
12,200.00	7,806.95	7,809.95	7,809.95	101.06	156.69	89.99	-14.26	528.30	5,434.06	5,244.84	189.22	28.718					
12,300.00	7,806.95	7,809.95	7,809.95	102.71	156.69	89.99	-14.26	528.30	5,533.06	5,343.79	189.27	29.234					
12,400.00	7,806.95	7,809.95	7,809.95	104.37	156.69	89.99	-14.26	528.30	5,632.10	5,442.78	189.32	29.750					
12,500.00	7,806.95	7,809.95	7,809.95	106.02	156.69	89.99	-14.26	528.30	5,731.17	5,541.81	189.37	30.265					
12,600.00	7,806.95	7,809.95	7,809.95	107.69	156.69	89.99	-14.26	528.30	5,830.28	5,640.86	189.42	30.780					
12,700.00	7,806.94	7,809.94	7,809.94	109.35	156.69	89.99	-14.26	528.30	5,929.41	5,739.94	189.47	31.295					
12,800.00	7,806.94	7,809.94	7,809.94	111.02	156.69	89.99	-14.26	528.30	6,028.57	5,839.05	189.52	31.810					
12,900.00	7,806.94	7,809.94	7,809.94	112.70	156.69	89.99	-14.26	528.30	6,127.76	5,938.19	189.57	32.325					
13,000.00	7,806.94	7,809.94	7,809.94	114.37	156.69	89.99	-14.26	528.30	6,226.98	6,037.35	189.62	32.839					
13,100.00	7,806.94	7,809.94	7,809.94	116.05	156.69	89.99	-14.26	528.30	6,326.22	6,136.54	189.67	33.353					
13,200.00	7,806.94	7,809.94	7,809.94	117.74	156.69	89.99	-14.26	528.30	6,425.48	6,235.75	189.73	33.867					
13,300.00	7,806.94	7,809.94	7,809.94	119.42	156.69	89.99	-14.26	528.30	6,524.76	6,334.98	189.78	34.380					
13,400.00	7,806.94	7,809.94	7,809.94	121.11	156.69	89.99	-14.26	528.30	6,624.07	6,434.23	189.84	34.893					
13,500.00	7,806.93	7,809.93	7,809.93	122.80	156.69	89.99	-14.26	528.30	6,723.40	6,533.51	189.89	35.406					
13,600.00	7,806.93	7,809.93	7,809.93	124.49	156.69	89.99	-14.26	528.30	6,822.75	6,632.80	189.95	35.919					
13,700.00	7,806.93	7,809.93	7,809.93	126.18	156.69	89.99	-14.26	528.30	6,922.11	6,732.11	190.01	36.431					
13,800.00	7,806.93	7,809.93	7,809.93	127.88	156.69	89.99	-14.26	528.30	7,021.50	6,831.43	190.06	36.943					
13,900.00	7,806.93	7,809.93	7,809.93	129.58	156.69	89.99	-14.26	528.30	7,120.90	6,930.78	190.12	37.454					
14,000.00	7,806.93	7,809.93	7,809.93	131.28	156.69	89.99	-14.26	528.30	7,220.32	7,030.14	190.18	37.965					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 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
14,100.00	7,806.93	7,809.93	7,809.93	132.98	156.69	89.99	-14.26	528.30	7,319.75	7,129.51	190.24	38.476	
14,200.00	7,806.93	7,809.93	7,809.93	134.68	156.69	89.99	-14.26	528.30	7,419.20	7,228.90	190.30	38.986	
14,300.00	7,806.92	7,809.92	7,809.92	136.39	156.69	89.99	-14.26	528.30	7,518.66	7,328.30	190.36	39.496	
14,400.00	7,806.92	7,809.92	7,809.92	138.10	156.69	89.99	-14.26	528.30	7,618.14	7,427.72	190.43	40.006	
14,500.00	7,806.92	7,809.92	7,809.92	139.81	156.69	89.99	-14.26	528.30	7,717.63	7,527.15	190.49	40.515	
14,600.00	7,806.92	7,809.92	7,809.92	141.52	156.69	89.99	-14.26	528.30	7,817.14	7,626.59	190.55	41.024	
14,700.00	7,806.92	7,809.92	7,809.92	143.23	156.69	89.99	-14.26	528.30	7,916.66	7,726.04	190.61	41.532	
14,800.00	7,806.92	7,809.92	7,809.92	144.94	156.69	89.99	-14.26	528.30	8,016.18	7,825.50	190.68	42.040	
14,900.00	7,806.92	7,809.92	7,809.92	146.66	156.69	89.99	-14.26	528.30	8,115.72	7,924.98	190.74	42.548	
15,000.00	7,806.92	7,809.92	7,809.92	148.37	156.69	89.99	-14.26	528.30	8,215.28	8,024.47	190.81	43.055	
15,100.00	7,806.91	7,809.91	7,809.91	150.09	156.69	89.99	-14.26	528.30	8,314.84	8,123.96	190.88	43.561	
15,200.00	7,806.91	7,809.91	7,809.91	151.81	156.69	89.99	-14.26	528.30	8,414.41	8,223.47	190.94	44.068	
15,300.00	7,806.91	7,809.91	7,809.91	153.53	156.69	89.99	-14.26	528.30	8,513.99	8,322.98	191.01	44.573	
15,400.00	7,806.91	7,809.91	7,809.91	155.25	156.69	89.99	-14.26	528.30	8,613.59	8,422.51	191.08	45.079	
15,500.00	7,806.91	7,809.91	7,809.91	156.97	156.69	89.99	-14.26	528.30	8,713.19	8,522.04	191.15	45.584	
15,600.00	7,806.91	7,809.91	7,809.91	158.70	156.69	89.99	-14.26	528.30	8,812.80	8,621.58	191.22	46.088	
15,700.00	7,806.91	7,809.91	7,809.91	160.42	156.69	89.99	-14.26	528.30	8,912.42	8,721.13	191.29	46.592	
15,800.00	7,806.91	7,809.91	7,809.91	162.15	156.69	89.99	-14.26	528.30	9,012.05	8,820.69	191.36	47.095	
15,900.00	7,806.90	7,809.90	7,809.90	163.88	156.69	89.99	-14.26	528.30	9,111.68	8,920.25	191.43	47.598	
16,000.00	7,806.90	7,809.90	7,809.90	165.60	156.69	89.99	-14.26	528.30	9,211.33	9,019.83	191.50	48.101	
16,100.00	7,806.90	7,809.90	7,809.90	167.33	156.69	89.99	-14.26	528.30	9,310.98	9,119.40	191.57	48.603	
16,200.00	7,806.90	7,809.90	7,809.90	169.06	156.69	89.99	-14.26	528.30	9,410.64	9,218.99	191.65	49.104	
16,300.00	7,806.90	7,809.90	7,809.90	170.79	156.69	89.99	-14.26	528.30	9,510.30	9,318.58	191.72	49.605	
16,400.00	7,806.90	7,809.90	7,809.90	172.52	156.69	89.99	-14.26	528.30	9,609.98	9,418.18	191.79	50.106	
16,500.00	7,806.90	7,809.90	7,809.90	174.26	156.69	89.99	-14.26	528.30	9,709.66	9,517.79	191.87	50.605	
16,600.00	7,806.89	7,809.89	7,809.89	175.99	156.69	89.99	-14.26	528.30	9,809.34	9,617.40	191.95	51.105	
16,700.00	7,806.89	7,809.89	7,809.89	177.72	156.69	89.99	-14.26	528.30	9,909.03	9,717.01	192.02	51.604	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	158.28	-433.18	172.60	466.61					
100.00	100.00	83.00	83.00	0.13	0.97	158.28	-433.18	172.60	466.30	465.19	1.11	421.284		
200.00	200.00	183.00	183.00	0.49	3.08	158.28	-433.18	172.60	466.30	462.73	3.57	130.622		
300.00	300.00	283.00	283.00	0.85	5.19	158.28	-433.18	172.60	466.30	460.25	6.04	77.152		
400.00	400.00	383.00	383.00	1.21	7.24	158.28	-433.18	172.60	466.30	457.85	8.45	55.177		
500.00	500.00	483.00	483.00	1.57	9.27	158.28	-433.18	172.60	466.30	455.46	10.84	43.014		
600.00	600.00	583.00	583.00	1.93	11.30	158.28	-433.18	172.60	466.30	453.08	13.22	35.264		
700.00	700.00	683.00	683.00	2.29	13.32	158.28	-433.18	172.60	466.30	450.70	15.60	29.888		
800.00	800.00	783.00	783.00	2.64	15.33	158.28	-433.18	172.60	466.30	448.32	17.98	25.938		
900.00	900.00	883.00	883.00	3.00	17.35	158.28	-433.18	172.60	466.30	445.95	20.35	22.912		
1,000.00	1,000.00	983.00	983.00	3.36	19.36	158.28	-433.18	172.60	466.30	443.57	22.73	20.519		
1,100.00	1,099.98	1,082.98	1,082.98	3.71	21.38	31.40	-433.18	172.60	464.81	439.72	25.08	18.530		
1,200.00	1,199.84	1,182.84	1,182.84	4.04	23.39	31.78	-433.18	172.60	460.35	432.92	27.43	16.782		
1,300.00	1,299.45	1,282.45	1,282.45	4.39	25.39	32.44	-433.18	172.60	452.96	423.18	29.78	15.211		
1,400.00	1,398.70	1,381.70	1,381.70	4.74	27.39	33.40	-433.18	172.60	442.71	410.58	32.12	13.781		
1,500.00	1,497.47	1,480.47	1,480.47	5.12	29.38	34.69	-433.18	172.60	429.69	395.23	34.47	12.466		
1,600.00	1,595.62	1,578.62	1,578.62	5.51	31.36	36.37	-433.18	172.60	414.07	377.26	36.81	11.249		
1,700.00	1,693.06	1,676.06	1,676.06	5.94	33.32	38.51	-433.18	172.60	396.04	356.88	39.15	10.115		
1,800.00	1,789.64	1,772.64	1,772.64	6.39	35.26	41.20	-433.18	172.60	375.88	334.38	41.50	9.057		
1,863.26	1,850.25	1,833.25	1,833.25	6.70	36.48	43.25	-433.18	172.60	362.22	319.23	42.99	8.425		
1,900.00	1,885.34	1,868.34	1,868.34	6.89	37.18	44.43	-433.18	172.60	354.18	310.32	43.86	8.075		
2,000.00	1,980.83	1,963.83	1,963.83	7.41	39.11	47.92	-433.18	172.60	333.13	286.88	46.25	7.203		
2,100.00	2,076.33	2,059.33	2,059.33	7.95	41.03	51.83	-433.18	172.60	313.48	264.80	48.68	6.440		
2,200.00	2,171.82	2,154.82	2,154.82	8.50	42.95	56.22	-433.18	172.60	295.51	244.36	51.15	5.778		
2,300.00	2,267.32	2,250.32	2,250.32	9.07	44.87	61.11	-433.18	172.60	279.54	225.88	53.66	5.210		
2,400.00	2,362.81	2,345.81	2,345.81	9.64	46.79	66.51	-433.18	172.60	265.94	209.73	56.21	4.731		
2,500.00	2,458.30	2,441.30	2,441.30	10.22	48.71	72.38	-433.18	172.60	255.08	196.29	58.78	4.339		
2,600.00	2,553.80	2,536.80	2,536.80	10.81	50.63	78.66	-433.18	172.60	247.32	185.95	61.37	4.030		
2,700.00	2,649.29	2,632.29	2,632.29	11.41	52.55	85.23	-433.18	172.60	242.96	179.02	63.94	3.800		
2,771.21	2,717.29	2,700.29	2,700.29	11.84	53.92	90.00	-433.18	172.60	242.04	176.29	65.76	3.681 CC		
2,800.00	2,744.79	2,727.79	2,727.79	12.01	54.47	91.93	-433.18	172.60	242.19	175.71	66.48	3.643 ES		
2,900.00	2,840.28	2,823.28	2,823.28	12.61	56.39	98.58	-433.18	172.60	245.04	176.08	68.96	3.553		
3,000.00	2,935.77	2,918.77	2,918.77	13.22	58.31	105.00	-433.18	172.60	251.39	180.02	71.37	3.522 SF		
3,100.00	3,031.27	3,014.27	3,014.27	13.83	60.24	111.06	-433.18	172.60	260.97	187.25	73.72	3.540		
3,200.00	3,126.76	3,109.76	3,109.76	14.44	62.16	116.66	-433.18	172.60	273.46	197.45	76.01	3.598		
3,300.00	3,222.26	3,205.26	3,205.26	15.06	64.08	121.77	-433.18	172.60	288.47	210.21	78.26	3.686		
3,400.00	3,317.75	3,300.75	3,300.75	15.68	66.00	126.36	-433.18	172.60	305.64	225.15	80.48	3.798		
3,500.00	3,413.25	3,403.75	3,403.75	16.30	68.07	130.48	-433.18	172.60	324.61	241.77	82.84	3.919		
3,600.00	3,508.74	3,508.26	3,491.74	16.92	70.17	134.14	-433.18	172.60	345.10	259.88	85.22	4.050		
3,700.00	3,604.23	3,587.23	3,587.23	17.54	71.76	137.40	-433.18	172.60	366.84	279.76	87.08	4.213		
3,800.00	3,699.73	3,682.73	3,682.73	18.17	73.68	140.30	-433.18	172.60	389.64	300.36	89.28	4.364		
3,900.00	3,795.22	3,778.22	3,778.22	18.79	75.60	142.89	-433.18	172.60	413.31	321.82	91.49	4.518		
4,000.00	3,890.72	3,873.72	3,873.72	19.42	77.52	145.20	-433.18	172.60	437.71	344.01	93.70	4.671		
4,100.00	3,986.21	3,969.21	3,969.21	20.05	79.44	147.27	-433.18	172.60	462.73	366.81	95.92	4.824		
4,200.00	4,081.70	4,064.70	4,064.70	20.67	81.36	149.13	-433.18	172.60	488.27	390.13	98.14	4.975		
4,300.00	4,177.20	4,160.20	4,160.20	21.30	83.28	150.81	-433.18	172.60	514.26	413.88	100.38	5.123		
4,400.00	4,272.69	4,255.69	4,255.69	21.93	85.20	152.33	-433.18	172.60	540.63	438.01	102.62	5.268		
4,500.00	4,368.19	4,351.19	4,351.19	22.56	87.12	153.71	-433.18	172.60	567.32	462.46	104.86	5.410		
4,600.00	4,463.68	4,446.68	4,446.68	23.19	89.04	154.97	-433.18	172.60	594.30	487.18	107.11	5.548		
4,700.00	4,559.17	4,542.17	4,542.17	23.83	90.96	156.12	-433.18	172.60	621.52	512.15	109.37	5.683		
4,800.00	4,654.67	4,637.67	4,637.67	24.46	92.88	157.17	-433.18	172.60	648.96	537.33	111.63	5.813		
4,900.00	4,750.16	4,733.16	4,733.16	25.09	94.81	158.14	-433.18	172.60	676.59	562.69	113.90	5.940		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,845.66	4,828.66	4,828.66	25.72	96.73	159.03	-433.18	172.60	704.39	588.22	116.17	6.063		
5,100.00	4,941.15	4,924.15	4,924.15	26.36	98.65	159.86	-433.18	172.60	732.33	613.89	118.44	6.183		
5,200.00	5,036.65	5,019.65	5,019.65	26.99	100.57	160.63	-433.18	172.60	760.40	639.69	120.72	6.299		
5,300.00	5,132.14	5,115.14	5,115.14	27.63	102.49	161.34	-433.18	172.60	788.60	665.60	123.00	6.411		
5,400.00	5,227.63	5,210.63	5,210.63	28.26	104.41	162.00	-433.18	172.60	816.89	691.61	125.28	6.521		
5,500.00	5,323.13	5,306.13	5,306.13	28.90	106.33	162.62	-433.18	172.60	845.29	717.72	127.57	6.626		
5,600.00	5,418.62	5,401.62	5,401.62	29.53	108.25	163.20	-433.18	172.60	873.77	743.91	129.85	6.729		
5,700.00	5,514.12	5,502.88	5,497.12	30.17	110.28	163.74	-433.18	172.60	902.32	770.06	132.26	6.822		
5,800.00	5,609.61	5,607.39	5,592.61	30.80	112.39	164.25	-433.18	172.60	930.95	796.22	134.73	6.910		
5,900.00	5,705.10	5,688.10	5,688.10	31.44	114.01	164.73	-433.18	172.60	959.64	822.91	136.73	7.019		
6,000.00	5,800.60	5,783.60	5,783.60	32.08	115.93	165.18	-433.18	172.60	988.38	849.36	139.02	7.110		
6,100.00	5,896.09	5,879.09	5,879.09	32.71	117.85	165.61	-433.18	172.60	1,017.19	875.87	141.32	7.198		
6,200.00	5,991.59	5,974.59	5,974.59	33.35	119.77	166.01	-433.18	172.60	1,046.04	902.42	143.62	7.284		
6,300.00	6,087.08	6,070.08	6,070.08	33.99	121.69	166.40	-433.18	172.60	1,074.93	929.02	145.91	7.367		
6,400.00	6,182.57	6,165.57	6,165.57	34.62	123.61	166.76	-433.18	172.60	1,103.87	955.66	148.22	7.448		
6,499.99	6,278.06	6,261.06	6,261.06	35.26	125.53	167.10	-433.18	172.60	1,132.84	982.33	150.52	7.526		
6,505.95	6,283.75	6,266.75	6,266.75	35.30	125.65	167.12	-433.18	172.60	1,134.57	983.92	150.65	7.531		
6,600.00	6,374.00	6,357.00	6,357.00	35.88	127.46	167.53	-433.18	172.60	1,160.41	1,007.59	152.82	7.593		
6,700.00	6,470.87	6,453.87	6,453.87	36.44	129.41	167.89	-433.18	172.60	1,184.72	1,029.57	155.15	7.636		
6,800.00	6,568.53	6,551.53	6,551.53	36.96	131.37	168.19	-433.18	172.60	1,205.72	1,048.24	157.48	7.656		
6,900.00	6,666.89	6,649.89	6,649.89	37.43	133.35	168.44	-433.18	172.60	1,223.38	1,063.56	159.82	7.655		
7,000.00	6,765.82	6,748.82	6,748.82	37.85	135.34	168.63	-433.18	172.60	1,237.68	1,075.52	162.16	7.633		
7,100.00	6,865.19	6,848.19	6,848.19	38.22	137.34	168.77	-433.18	172.60	1,248.58	1,084.08	164.50	7.590		
7,200.00	6,964.89	6,947.89	6,947.89	38.55	139.34	168.87	-433.18	172.60	1,256.08	1,089.24	166.84	7.529		
7,300.00	7,064.80	7,047.80	7,047.80	38.83	141.35	168.92	-433.18	172.60	1,260.16	1,090.99	169.17	7.449		
7,369.20	7,134.00	7,117.00	7,117.00	39.00	142.74	-64.06	-433.18	172.60	1,260.98	1,090.21	170.78	7.384		
7,400.00	7,164.80	7,147.80	7,147.80	39.06	143.36	-64.06	-433.18	172.60	1,260.98	1,089.50	171.49	7.353		
7,469.20	7,234.00	7,217.00	7,217.00	39.22	144.76	-64.06	-433.18	172.60	1,260.98	1,087.90	173.08	7.286		
7,500.00	7,264.78	7,247.78	7,247.78	39.29	145.37	116.28	-433.18	172.60	1,261.35	1,087.56	173.79	7.258		
7,550.00	7,314.53	7,302.47	7,297.53	39.44	146.47	116.29	-433.18	172.60	1,263.51	1,088.47	175.05	7.218		
7,600.00	7,363.66	7,346.66	7,346.66	39.62	147.36	116.28	-433.18	172.60	1,267.64	1,091.55	176.09	7.199		
7,650.00	7,411.81	7,405.19	7,394.81	39.82	148.54	116.26	-433.18	172.60	1,273.76	1,096.34	177.42	7.179		
7,700.00	7,458.61	7,441.61	7,441.61	40.06	149.27	116.18	-433.18	172.60	1,281.95	1,103.64	178.31	7.189		
7,750.00	7,503.69	7,486.69	7,486.69	40.32	150.18	116.03	-433.18	172.60	1,292.26	1,112.89	179.37	7.205		
7,800.00	7,546.72	7,529.72	7,529.72	40.60	151.04	115.76	-433.18	172.60	1,304.76	1,124.38	180.38	7.233		
7,850.00	7,587.38	7,570.38	7,570.38	40.92	151.86	115.35	-433.18	172.60	1,319.52	1,138.17	181.35	7.276		
7,900.00	7,625.34	7,608.34	7,608.34	41.25	152.63	114.73	-433.18	172.60	1,336.57	1,154.32	182.25	7.334		
7,950.00	7,660.33	7,643.33	7,643.33	41.61	153.33	113.86	-433.18	172.60	1,355.95	1,172.86	183.08	7.406		
8,000.00	7,692.07	7,675.07	7,675.07	42.00	153.97	112.70	-433.18	172.60	1,377.64	1,193.79	183.85	7.493		
8,050.00	7,720.33	7,703.33	7,703.33	42.40	154.54	111.18	-433.18	172.60	1,401.61	1,217.08	184.53	7.596		
8,100.00	7,744.89	7,727.89	7,727.89	42.83	155.03	109.25	-433.18	172.60	1,427.77	1,242.65	185.12	7.713		
8,150.00	7,765.56	7,748.56	7,748.56	43.27	155.45	106.86	-433.18	172.60	1,456.01	1,270.39	185.62	7.844		
8,200.00	7,782.18	7,765.18	7,765.18	43.74	155.78	103.95	-433.18	172.60	1,486.16	1,300.13	186.02	7.989		
8,250.00	7,794.63	7,777.63	7,777.63	44.22	156.03	100.49	-433.18	172.60	1,518.02	1,331.70	186.33	8.147		
8,300.00	7,802.82	7,785.82	7,785.82	44.71	156.19	96.46	-433.18	172.60	1,551.36	1,364.84	186.52	8.317		
8,350.00	7,806.68	7,789.68	7,789.68	45.21	156.27	91.89	-433.18	172.60	1,585.90	1,399.29	186.62	8.498		
8,369.28	7,807.00	7,790.00	7,790.00	45.40	156.28	90.00	-433.18	172.60	1,599.48	1,412.85	186.62	8.571		
8,400.00	7,807.00	7,790.00	7,790.00	45.72	156.28	90.00	-433.18	172.60	1,621.35	1,434.73	186.62	8.688		
8,500.00	7,807.00	7,790.00	7,790.00	46.77	156.28	90.00	-433.18	172.60	1,694.47	1,507.84	186.63	9.079		
8,600.00	7,807.00	7,790.00	7,790.00	47.86	156.28	90.00	-433.18	172.60	1,770.21	1,583.57	186.64	9.485		
8,700.00	7,807.00	7,790.00	7,790.00	48.99	156.28	90.00	-433.18	172.60	1,848.26	1,661.61	186.65	9.902		
8,800.00	7,806.99	7,789.99	7,789.99	50.16	156.28	90.00	-433.18	172.60	1,928.34	1,741.67	186.66	10.331		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,789.99	7,789.99	51.37	156.28	90.00	-433.18	172.60	2,010.20	1,823.52	186.68	10.768		
9,000.00	7,806.99	7,789.99	7,789.99	52.60	156.28	90.00	-433.18	172.60	2,093.64	1,906.94	186.70	11.214		
9,100.00	7,806.99	7,789.99	7,789.99	53.87	156.28	90.00	-433.18	172.60	2,178.47	1,991.75	186.72	11.667		
9,200.00	7,806.99	7,789.99	7,789.99	55.17	156.28	90.00	-433.18	172.60	2,264.55	2,077.80	186.75	12.126		
9,300.00	7,806.99	7,789.99	7,789.99	56.49	156.28	90.00	-433.18	172.60	2,351.72	2,164.95	186.77	12.591		
9,400.00	7,806.99	7,789.99	7,789.99	57.83	156.28	90.00	-433.18	172.60	2,439.88	2,253.08	186.80	13.061		
9,500.00	7,806.99	7,789.99	7,789.99	59.20	156.28	90.00	-433.18	172.60	2,528.92	2,342.09	186.83	13.536		
9,600.00	7,806.98	7,789.98	7,789.98	60.59	156.28	90.00	-433.18	172.60	2,618.75	2,431.89	186.86	14.014		
9,700.00	7,806.98	7,789.98	7,789.98	62.00	156.28	90.00	-433.18	172.60	2,709.30	2,522.40	186.89	14.497		
9,800.00	7,806.98	7,789.98	7,789.98	63.43	156.28	90.00	-433.18	172.60	2,800.48	2,613.56	186.92	14.982		
9,900.00	7,806.98	7,789.98	7,789.98	64.87	156.28	90.00	-433.18	172.60	2,892.25	2,705.30	186.96	15.470		
10,000.00	7,806.98	7,789.98	7,789.98	66.34	156.28	90.00	-433.18	172.60	2,984.55	2,797.56	186.99	15.961		
10,100.00	7,806.98	7,789.98	7,789.98	67.81	156.28	90.00	-433.18	172.60	3,077.33	2,890.31	187.02	16.454		
10,200.00	7,806.98	7,789.98	7,789.98	69.30	156.28	90.00	-433.18	172.60	3,170.55	2,983.49	187.06	16.950		
10,300.00	7,806.98	7,789.98	7,789.98	70.81	156.28	90.00	-433.18	172.60	3,264.17	3,077.08	187.09	17.447		
10,400.00	7,806.97	7,789.97	7,789.97	72.32	156.28	90.00	-433.18	172.60	3,358.16	3,171.03	187.13	17.946		
10,500.00	7,806.97	7,789.97	7,789.97	73.85	156.28	90.00	-433.18	172.60	3,452.49	3,265.32	187.17	18.446		
10,600.00	7,806.97	7,789.97	7,789.97	75.39	156.28	90.00	-433.18	172.60	3,547.12	3,359.92	187.21	18.948		
10,700.00	7,806.97	7,789.97	7,789.97	76.94	156.28	90.00	-433.18	172.60	3,642.05	3,454.80	187.24	19.451		
10,800.00	7,806.97	7,789.97	7,789.97	78.49	156.28	90.00	-433.18	172.60	3,737.24	3,549.95	187.28	19.955		
10,900.00	7,806.97	7,789.97	7,789.97	80.06	156.28	90.00	-433.18	172.60	3,832.67	3,645.34	187.32	20.460		
11,000.00	7,806.97	7,789.97	7,789.97	81.64	156.28	90.00	-433.18	172.60	3,928.33	3,740.96	187.37	20.966		
11,100.00	7,806.97	7,789.97	7,789.97	83.22	156.28	90.00	-433.18	172.60	4,024.20	3,836.79	187.41	21.473		
11,200.00	7,806.96	7,789.96	7,789.96	84.81	156.28	90.00	-433.18	172.60	4,120.27	3,932.82	187.45	21.981		
11,300.00	7,806.96	7,789.96	7,789.96	86.41	156.28	90.00	-433.18	172.60	4,216.52	4,029.03	187.49	22.489		
11,400.00	7,806.96	7,789.96	7,789.96	88.01	156.28	90.00	-433.18	172.60	4,312.94	4,125.41	187.54	22.998		
11,500.00	7,806.96	7,789.96	7,789.96	89.63	156.28	90.00	-433.18	172.60	4,409.52	4,221.94	187.58	23.507		
11,600.00	7,806.96	7,789.96	7,789.96	91.24	156.28	90.00	-433.18	172.60	4,506.25	4,318.63	187.63	24.017		
11,700.00	7,806.96	7,789.96	7,789.96	92.87	156.28	90.00	-433.18	172.60	4,603.12	4,415.45	187.67	24.528		
11,800.00	7,806.96	7,789.96	7,789.96	94.49	156.28	90.00	-433.18	172.60	4,700.12	4,512.41	187.72	25.038		
11,900.00	7,806.95	7,789.95	7,789.95	96.13	156.28	90.00	-433.18	172.60	4,797.25	4,609.48	187.76	25.549		
12,000.00	7,806.95	7,789.95	7,789.95	97.77	156.28	90.00	-433.18	172.60	4,894.49	4,706.67	187.81	26.061		
12,100.00	7,806.95	7,789.95	7,789.95	99.41	156.28	90.00	-433.18	172.60	4,991.84	4,803.97	187.86	26.572		
12,200.00	7,806.95	7,789.95	7,789.95	101.06	156.28	90.00	-433.18	172.60	5,089.29	4,901.38	187.91	27.084		
12,300.00	7,806.95	7,789.95	7,789.95	102.71	156.28	90.00	-433.18	172.60	5,186.84	4,998.88	187.96	27.595		
12,400.00	7,806.95	7,789.95	7,789.95	104.37	156.28	90.00	-433.18	172.60	5,284.48	5,096.47	188.01	28.107		
12,500.00	7,806.95	7,789.95	7,789.95	106.02	156.28	90.00	-433.18	172.60	5,382.20	5,194.14	188.06	28.619		
12,600.00	7,806.95	7,789.95	7,789.95	107.69	156.28	90.00	-433.18	172.60	5,480.01	5,291.90	188.11	29.131		
12,700.00	7,806.94	7,789.94	7,789.94	109.35	156.28	90.00	-433.18	172.60	5,577.90	5,389.73	188.17	29.643		
12,800.00	7,806.94	7,789.94	7,789.94	111.02	156.28	90.00	-433.18	172.60	5,675.86	5,487.64	188.22	30.155		
12,900.00	7,806.94	7,789.94	7,789.94	112.70	156.28	90.00	-433.18	172.60	5,773.89	5,585.62	188.27	30.667		
13,000.00	7,806.94	7,789.94	7,789.94	114.37	156.28	90.00	-433.18	172.60	5,871.99	5,683.66	188.33	31.179		
13,100.00	7,806.94	7,789.94	7,789.94	116.05	156.28	90.00	-433.18	172.60	5,970.15	5,781.76	188.38	31.691		
13,200.00	7,806.94	7,789.94	7,789.94	117.74	156.28	90.00	-433.18	172.60	6,068.37	5,879.93	188.44	32.203		
13,300.00	7,806.94	7,789.94	7,789.94	119.42	156.28	90.00	-433.18	172.60	6,166.64	5,978.15	188.50	32.715		
13,400.00	7,806.94	7,789.94	7,789.94	121.11	156.28	90.00	-433.18	172.60	6,264.97	6,076.42	188.55	33.226		
13,500.00	7,806.93	7,789.93	7,789.93	122.80	156.28	90.00	-433.18	172.60	6,363.36	6,174.75	188.61	33.738		
13,600.00	7,806.93	7,789.93	7,789.93	124.49	156.28	90.00	-433.18	172.60	6,461.79	6,273.12	188.67	34.249		
13,700.00	7,806.93	7,789.93	7,789.93	126.18	156.28	90.00	-433.18	172.60	6,560.27	6,371.54	188.73	34.760		
13,800.00	7,806.93	7,789.93	7,789.93	127.88	156.28	90.00	-433.18	172.60	6,658.80	6,470.01	188.79	35.271		
13,900.00	7,806.93	7,789.93	7,789.93	129.58	156.28	90.00	-433.18	172.60	6,757.37	6,568.52	188.85	35.781		
14,000.00	7,806.93	7,789.93	7,789.93	131.28	156.28	90.00	-433.18	172.60	6,855.98	6,667.07	188.91	36.292		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,789.93	7,789.93	132.98	156.28	90.00	-433.18	172.60	6,954.63	6,765.65	188.98	36.802	
14,200.00	7,806.93	7,789.93	7,789.93	134.68	156.28	90.00	-433.18	172.60	7,053.32	6,864.28	189.04	37.312	
14,300.00	7,806.92	7,789.92	7,789.92	136.39	156.28	90.00	-433.18	172.60	7,152.04	6,962.94	189.10	37.821	
14,400.00	7,806.92	7,789.92	7,789.92	138.10	156.28	90.00	-433.18	172.60	7,250.80	7,061.64	189.17	38.330	
14,500.00	7,806.92	7,789.92	7,789.92	139.81	156.28	90.00	-433.18	172.60	7,349.60	7,160.37	189.23	38.839	
14,600.00	7,806.92	7,789.92	7,789.92	141.52	156.28	90.00	-433.18	172.60	7,448.42	7,259.13	189.30	39.348	
14,700.00	7,806.92	7,789.92	7,789.92	143.23	156.28	90.00	-433.18	172.60	7,547.28	7,357.92	189.36	39.856	
14,800.00	7,806.92	7,789.92	7,789.92	144.94	156.28	90.00	-433.18	172.60	7,646.16	7,456.74	189.43	40.364	
14,900.00	7,806.92	7,789.92	7,789.92	146.66	156.28	90.00	-433.18	172.60	7,745.08	7,555.58	189.50	40.872	
15,000.00	7,806.92	7,789.92	7,789.92	148.37	156.28	89.99	-433.18	172.60	7,844.02	7,654.46	189.56	41.379	
15,100.00	7,806.91	7,789.91	7,789.91	150.09	156.28	89.99	-433.18	172.60	7,942.99	7,753.36	189.63	41.886	
15,200.00	7,806.91	7,789.91	7,789.91	151.81	156.28	89.99	-433.18	172.60	8,041.98	7,852.28	189.70	42.393	
15,300.00	7,806.91	7,789.91	7,789.91	153.53	156.28	89.99	-433.18	172.60	8,141.00	7,951.23	189.77	42.899	
15,400.00	7,806.91	7,789.91	7,789.91	155.25	156.28	89.99	-433.18	172.60	8,240.05	8,050.20	189.84	43.405	
15,500.00	7,806.91	7,789.91	7,789.91	156.97	156.28	89.99	-433.18	172.60	8,339.11	8,149.20	189.91	43.910	
15,600.00	7,806.91	7,789.91	7,789.91	158.70	156.28	89.99	-433.18	172.60	8,438.20	8,248.21	189.98	44.415	
15,700.00	7,806.91	7,789.91	7,789.91	160.42	156.28	89.99	-433.18	172.60	8,537.31	8,347.25	190.06	44.920	
15,800.00	7,806.91	7,789.91	7,789.91	162.15	156.28	89.99	-433.18	172.60	8,636.44	8,446.31	190.13	45.424	
15,900.00	7,806.90	7,789.90	7,789.90	163.88	156.28	89.99	-433.18	172.60	8,735.59	8,545.38	190.20	45.928	
16,000.00	7,806.90	7,789.90	7,789.90	165.60	156.28	89.99	-433.18	172.60	8,834.75	8,644.48	190.28	46.431	
16,100.00	7,806.90	7,789.90	7,789.90	167.33	156.28	89.99	-433.18	172.60	8,933.94	8,743.59	190.35	46.934	
16,200.00	7,806.90	7,789.90	7,789.90	169.06	156.28	89.99	-433.18	172.60	9,033.15	8,842.72	190.43	47.436	
16,300.00	7,806.90	7,789.90	7,789.90	170.79	156.28	89.99	-433.18	172.60	9,132.37	8,941.86	190.50	47.938	
16,400.00	7,806.90	7,789.90	7,789.90	172.52	156.28	89.99	-433.18	172.60	9,231.61	9,041.03	190.58	48.439	
16,500.00	7,806.90	7,789.90	7,789.90	174.26	156.28	89.99	-433.18	172.60	9,330.86	9,140.21	190.66	48.940	
16,600.00	7,806.89	7,789.89	7,789.89	175.99	156.28	89.99	-433.18	172.60	9,430.13	9,239.40	190.74	49.441	
16,700.00	7,806.89	7,789.89	7,789.89	177.72	156.28	89.99	-433.18	172.60	9,529.42	9,338.61	190.81	49.941	
16,800.00	7,806.89	7,789.89	7,789.89	179.46	156.28	89.99	-433.18	172.60	9,628.72	9,437.83	190.89	50.441	
16,900.00	7,806.89	7,789.89	7,789.89	181.19	156.28	89.99	-433.18	172.60	9,728.04	9,537.06	190.97	50.940	
17,000.00	7,806.89	7,789.89	7,789.89	182.93	156.28	89.99	-433.18	172.60	9,827.37	9,636.31	191.05	51.438	
17,100.00	7,806.89	7,789.89	7,789.89	184.67	156.28	89.99	-433.18	172.60	9,926.71	9,735.58	191.13	51.936	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	36.00	-36.00	0.00	0.06	155.35	-3,281.76	1,505.97	3,610.80					
100.00	100.00	64.00	64.00	0.13	0.11	155.35	-3,281.76	1,505.97	3,610.80	3,610.55	0.25	N/A		
200.00	200.00	164.00	164.00	0.49	0.29	155.35	-3,281.76	1,505.97	3,610.80	3,610.02	0.78	4,606.167		
300.00	300.00	264.00	264.00	0.85	0.47	155.35	-3,281.76	1,505.97	3,610.80	3,609.48	1.32	2,735.827		
400.00	400.00	364.00	364.00	1.21	0.65	155.35	-3,281.76	1,505.97	3,610.80	3,608.95	1.86	1,945.752		
500.00	500.00	464.00	464.00	1.57	0.82	155.35	-3,281.76	1,505.97	3,610.80	3,608.41	2.39	1,509.753		
600.00	600.00	564.00	564.00	1.93	1.00	155.35	-3,281.76	1,505.97	3,610.80	3,607.87	2.93	1,233.380		
700.00	700.00	664.00	664.00	2.29	1.18	155.35	-3,281.76	1,505.97	3,610.80	3,607.34	3.46	1,042.535		
800.00	800.00	764.00	764.00	2.64	1.36	155.35	-3,281.76	1,505.97	3,610.80	3,606.80	4.00	902.837		
900.00	900.00	864.00	864.00	3.00	1.53	155.35	-3,281.76	1,505.97	3,610.80	3,606.27	4.54	796.153		
1,000.00	1,000.00	964.00	964.00	3.36	1.71	155.35	-3,281.76	1,505.97	3,610.80	3,605.73	5.07	712.017		
1,100.00	1,099.98	1,063.98	1,063.98	3.71	1.89	28.37	-3,281.76	1,505.97	3,609.26	3,603.67	5.59	645.265		
1,200.00	1,199.84	1,163.84	1,163.84	4.04	2.07	28.46	-3,281.76	1,505.97	3,604.66	3,598.55	6.11	590.270		
1,300.00	1,299.45	1,263.45	1,263.45	4.39	2.24	28.60	-3,281.76	1,505.97	3,597.00	3,590.37	6.63	542.924		
1,400.00	1,398.70	1,362.70	1,362.70	4.74	2.42	28.79	-3,281.76	1,505.97	3,586.29	3,579.14	7.15	501.687		
1,500.00	1,497.47	1,461.47	1,461.47	5.12	2.59	29.05	-3,281.76	1,505.97	3,572.56	3,564.88	7.68	465.365		
1,600.00	1,595.62	1,559.62	1,559.62	5.51	2.77	29.36	-3,281.76	1,505.97	3,555.83	3,547.62	8.21	433.036		
1,700.00	1,693.06	1,614.98	1,614.95	5.94	3.21	29.69	-3,283.28	1,504.24	3,537.07	3,528.05	9.02	392.009		
1,800.00	1,789.64	1,685.28	1,685.16	6.39	3.56	30.11	-3,285.70	1,501.47	3,515.99	3,506.24	9.75	360.527		
1,863.26	1,850.25	1,729.17	1,728.93	6.70	3.79	30.42	-3,287.79	1,499.08	3,501.54	3,491.32	10.22	342.542		
1,900.00	1,885.34	1,754.49	1,754.15	6.89	3.92	30.52	-3,289.20	1,497.48	3,492.97	3,482.47	10.50	332.765		
2,000.00	1,980.83	1,823.03	1,822.35	7.41	4.28	30.80	-3,293.74	1,492.29	3,470.21	3,458.96	11.25	308.492		
2,100.00	2,076.33	1,891.00	1,889.78	7.95	4.64	31.11	-3,299.31	1,485.93	3,448.33	3,436.32	12.01	287.067		
2,200.00	2,171.82	1,958.31	1,956.36	8.50	5.01	31.44	-3,305.86	1,478.45	3,427.38	3,414.59	12.78	268.091		
2,300.00	2,267.32	2,024.92	2,021.99	9.07	5.37	31.80	-3,313.35	1,469.89	3,407.40	3,393.84	13.56	251.223		
2,400.00	2,362.81	2,090.76	2,086.58	9.64	5.73	32.18	-3,321.74	1,460.31	3,388.45	3,374.10	14.35	236.175		
2,500.00	2,458.30	2,155.77	2,150.05	10.22	6.09	32.58	-3,330.98	1,449.75	3,370.56	3,355.42	15.13	222.704		
2,600.00	2,553.80	2,219.90	2,212.35	10.81	6.45	33.00	-3,341.03	1,438.28	3,353.79	3,337.87	15.92	210.606		
2,700.00	2,649.29	2,283.11	2,273.40	11.41	6.80	33.43	-3,351.83	1,425.94	3,338.21	3,321.49	16.72	199.708		
2,800.00	2,744.79	2,345.36	2,333.15	12.01	7.14	33.88	-3,363.33	1,412.81	3,323.85	3,306.34	17.51	189.866		
2,900.00	2,840.28	2,406.62	2,391.56	12.61	7.49	34.35	-3,375.47	1,398.93	3,310.78	3,292.48	18.30	180.956		
3,000.00	2,935.77	2,466.84	2,448.59	13.22	7.82	34.83	-3,388.22	1,384.38	3,299.05	3,279.97	19.08	172.873		
3,100.00	3,031.27	2,526.02	2,504.22	13.83	8.16	35.31	-3,401.50	1,369.21	3,288.72	3,268.86	19.87	165.528		
3,200.00	3,126.76	2,584.11	2,558.42	14.44	8.48	35.81	-3,415.28	1,353.47	3,279.85	3,259.21	20.65	158.844		
3,300.00	3,222.26	2,641.11	2,611.17	15.06	8.80	36.32	-3,429.50	1,337.23	3,272.49	3,251.07	21.42	152.754		
3,400.00	3,317.75	2,697.01	2,662.48	15.68	9.12	36.83	-3,444.11	1,320.54	3,266.70	3,244.51	22.19	147.203		
3,500.00	3,413.25	2,751.78	2,712.33	16.30	9.43	37.34	-3,459.07	1,303.46	3,262.52	3,239.57	22.95	142.139		
3,600.00	3,508.74	2,805.44	2,760.73	16.92	9.73	37.86	-3,474.32	1,286.03	3,260.01	3,236.30	23.71	137.520		
3,653.82	3,560.13	2,833.85	2,786.18	17.25	9.89	38.14	-3,482.64	1,276.53	3,259.36	3,235.25	24.11	135.203		
3,700.00	3,604.23	3,024.96	2,953.95	17.54	10.97	40.11	-3,542.87	1,207.74	3,265.96	3,240.51	25.46	128.286		
3,792.90	3,692.95	3,024.96	2,953.95	18.12	10.97	40.11	-3,542.87	1,207.74	3,263.52	3,237.65	25.87	126.172		
3,800.00	3,699.73	3,209.71	2,794.76	18.17	12.77	38.13	-3,481.10	1,278.29	3,258.21	3,230.94	27.27	119.494		
3,900.00	3,795.22	3,130.51	2,863.01	18.79	12.00	38.98	-3,507.58	1,248.04	3,262.27	3,235.20	27.07	120.496		
4,000.00	3,890.72	3,051.31	2,931.25	19.42	11.23	39.83	-3,534.06	1,217.80	3,267.47	3,240.57	26.90	121.479		
4,100.00	3,986.21	3,077.81	2,999.49	20.05	11.49	40.67	-3,560.54	1,187.56	3,273.80	3,246.18	27.62	118.516		
4,200.00	4,081.70	3,157.01	3,067.73	20.67	12.26	41.52	-3,587.02	1,157.31	3,281.26	3,252.47	28.79	113.981		
4,300.00	4,177.20	3,236.22	3,135.98	21.30	13.03	42.36	-3,613.50	1,127.07	3,289.83	3,259.88	29.94	109.865		
4,400.00	4,272.69	3,315.42	3,204.22	21.93	13.81	43.20	-3,639.98	1,096.82	3,299.51	3,268.41	31.09	106.119		
4,500.00	4,368.19	3,394.62	3,272.46	22.56	14.58	44.03	-3,666.46	1,066.58	3,310.28	3,278.05	32.23	102.703		
4,600.00	4,463.68	3,473.82	3,340.71	23.19	15.36	44.86	-3,692.94	1,036.34	3,322.15	3,288.79	33.36	99.582		
4,700.00	4,559.17	3,553.03	3,408.95	23.83	16.13	45.69	-3,719.42	1,006.09	3,335.09	3,300.61	34.48	96.725		
4,800.00	4,654.67	3,632.23	3,477.19	24.46	16.91	46.51	-3,745.90	975.85	3,349.09	3,313.50	35.59	94.105		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 33-T1N-R68W - ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.00 usft	
Survey Program: 1500-MWD OWSG															Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor						
4,900.00	4,750.16	3,711.43	3,545.44	25.09	17.69	47.33	-3,772.38	945.60	3,364.14	3,327.45	36.69	91.699						
5,000.00	4,845.66	3,790.63	3,613.68	25.72	18.47	48.14	-3,798.86	915.36	3,380.23	3,342.45	37.77	89.486						
5,100.00	4,941.15	3,869.84	3,681.92	26.36	19.25	48.95	-3,825.34	885.11	3,397.34	3,358.49	38.85	87.449						
5,200.00	5,036.65	3,949.04	3,750.17	26.99	20.03	49.76	-3,851.82	854.87	3,415.45	3,375.54	39.91	85.572						
5,300.00	5,132.14	4,028.24	3,818.41	27.63	20.81	50.55	-3,878.30	824.63	3,434.55	3,393.59	40.97	83.839						
5,400.00	5,227.63	4,107.44	3,886.65	28.26	21.59	51.34	-3,904.78	794.38	3,454.63	3,412.62	42.01	82.240						
5,500.00	5,323.13	4,186.65	3,954.89	28.90	22.37	52.13	-3,931.26	764.14	3,475.66	3,432.63	43.04	80.762						
5,600.00	5,418.62	4,265.85	4,023.14	29.53	23.16	52.91	-3,957.74	733.89	3,497.64	3,453.58	44.05	79.395						
5,700.00	5,514.12	4,345.05	4,091.38	30.17	23.94	53.68	-3,984.22	703.65	3,520.53	3,475.47	45.06	78.130						
5,800.00	5,609.61	4,424.25	4,159.62	30.80	24.72	54.45	-4,010.70	673.41	3,544.33	3,498.27	46.06	76.959						
5,900.00	5,705.10	4,503.46	4,227.87	31.44	25.50	55.21	-4,037.18	643.16	3,569.01	3,521.97	47.04	75.874						
6,000.00	5,800.60	4,582.66	4,296.11	32.08	26.29	55.96	-4,063.66	612.92	3,594.56	3,546.55	48.01	74.868						
6,100.00	5,896.09	4,661.86	4,364.35	32.71	27.07	56.70	-4,090.14	582.67	3,620.97	3,571.99	48.97	73.936						
6,200.00	5,991.59	4,741.06	4,432.60	33.35	27.85	57.44	-4,116.62	552.43	3,648.20	3,598.27	49.93	73.072						
6,300.00	6,087.08	4,820.26	4,500.84	33.99	28.63	58.17	-4,143.10	522.18	3,676.24	3,625.37	50.87	72.271						
6,400.00	6,182.57	4,903.45	4,569.03	34.62	28.04	59.30	-4,421.72	203.96	3,665.47	3,604.83	60.64	60.442						
6,499.99	6,278.06	6,639.73	6,242.06	35.26	38.21	69.72	-4,421.72	203.96	3,654.66	3,593.26	61.40	59.521						
6,505.95	6,283.75	6,645.42	6,247.75	35.30	38.22	69.74	-4,421.72	203.96	3,654.02	3,592.57	61.45	59.467						
6,600.00	6,374.00	6,735.68	6,338.00	35.88	38.37	69.94	-4,421.72	203.96	3,644.57	3,582.43	62.14	58.647						
6,700.00	6,470.87	6,832.54	6,434.87	36.44	38.54	70.13	-4,421.72	203.96	3,635.85	3,572.99	62.86	57.845						
6,800.00	6,568.53	6,930.21	6,532.53	36.96	38.71	70.30	-4,421.72	203.96	3,628.44	3,564.91	63.53	57.112						
6,900.00	6,666.89	7,028.56	6,630.89	37.43	38.88	70.45	-4,421.72	203.96	3,622.30	3,558.12	64.18	56.444						
7,000.00	6,765.82	7,127.49	6,729.82	37.85	39.05	70.58	-4,421.72	203.96	3,617.39	3,552.60	64.78	55.837						
7,100.00	6,865.19	7,226.86	6,829.19	38.22	39.22	70.67	-4,421.72	203.96	3,613.68	3,548.32	65.36	55.290						
7,128.69	6,893.77	7,255.44	6,857.77	38.31	39.27	70.69	-4,421.72	203.96	3,612.83	3,547.32	65.51	55.146						
7,200.00	6,964.89	7,178.00	6,780.33	38.55	39.14	70.61	-4,421.72	203.96	3,614.20	3,548.45	65.75	54.972						
7,300.00	7,064.80	7,178.00	6,780.33	38.83	39.14	70.68	-4,421.72	203.96	3,618.31	3,552.21	66.10	54.741						
7,369.20	7,134.00	7,178.00	6,780.33	39.00	39.14	-162.21	-4,421.72	203.96	3,623.45	3,557.15	66.30	54.656						
7,400.00	7,164.80	7,178.00	6,780.33	39.06	39.14	-162.21	-4,421.72	203.96	3,626.28	3,559.91	66.37	54.636						
7,469.20	7,234.00	7,178.00	6,780.33	39.22	39.14	-162.21	-4,421.72	203.96	3,633.58	3,567.05	66.53	54.618						
7,500.00	7,264.78	7,178.00	6,780.33	39.29	39.14	18.04	-4,421.72	203.96	3,636.47	3,569.87	66.59	54.607						
7,550.00	7,314.53	7,178.00	6,780.33	39.44	39.14	17.98	-4,421.72	203.96	3,638.36	3,571.66	66.71	54.544						
7,600.00	7,363.66	7,178.00	6,780.33	39.62	39.14	18.03	-4,421.72	203.96	3,636.80	3,569.97	66.82	54.425						
7,650.00	7,411.81	7,178.00	6,780.33	39.82	39.14	18.19	-4,421.72	203.96	3,631.78	3,564.83	66.94	54.253						
7,700.00	7,458.61	7,178.00	6,780.33	40.06	39.14	18.46	-4,421.72	203.96	3,623.33	3,556.26	67.06	54.028						
7,750.00	7,503.69	7,178.00	6,780.33	40.32	39.14	18.85	-4,421.72	203.96	3,611.49	3,544.30	67.19	53.752						
7,800.00	7,546.72	7,178.00	6,780.33	40.60	39.14	19.37	-4,421.72	203.96	3,596.31	3,529.00	67.31	53.426						
7,850.00	7,587.38	7,178.00	6,780.33	40.92	39.14	20.04	-4,421.72	203.96	3,577.88	3,510.44	67.44	53.053						
7,900.00	7,625.34	7,178.00	6,780.33	41.25	39.14	20.88	-4,421.72	203.96	3,556.29	3,488.72	67.57	52.634						
7,950.00	7,660.33	7,178.00	6,780.33	41.61	39.14	21.91	-4,421.72	203.96	3,531.63	3,463.93	67.69	52.171						
8,000.00	7,692.07	7,178.00	6,780.33	42.00	39.14	23.18	-4,421.72	203.96	3,504.04	3,436.21	67.82	51.666						
8,050.00	7,720.33	7,178.00	6,780.33	42.40	39.14	24.73	-4,421.72	203.96	3,473.65	3,405.70	67.95	51.120						
8,100.00	7,744.89	7,178.00	6,780.33	42.83	39.14	26.64	-4,421.72	203.96	3,440.64	3,372.56	68.08	50.538						
8,150.00	7,765.56	7,178.00	6,780.33	43.27	39.14	28.99	-4,421.72	203.96	3,405.17	3,336.96	68.21	49.919						
8,200.00	7,782.18	7,178.00	6,780.33	43.74	39.14	31.90	-4,421.72	203.96	3,367.45	3,299.10	68.35	49.268						
8,250.00	7,794.63	7,178.00	6,780.33	44.22	39.14	35.55	-4,421.72	203.96	3,327.68	3,259.19	68.49	48.586						
8,300.00	7,802.82	7,178.00	6,780.33	44.71	39.14	40.14	-4,421.72	203.96	3,286.11	3,217.47	68.64	47.877						
8,350.00	7,806.68	7,178.00	6,780.33	45.21	39.14	45.95	-4,421.72	203.96	3,242.99	3,174.20	68.79	47.144						
8,369.28	7,807.00	7,178.00	6,780.33	45.40	39.14	48.59	-4,421.72	203.96	3,226.00	3,157.15	68.85	46.854						
8,400.00	7,807.00	7,178.00	6,780.33	45.72	39.14	48.59	-4,421.72	203.96	3,198.82	3,129.87	68.95	46.394						
8,500.00	7,807.00	7,178.00	6,780.33	46.77	39.14	48.59	-4,421.72	203.96	3,110.81	3,041.53	69.28	44.901						
8,600.00	7,807.00	7,178.00	6,780.33	47.86	39.14	48.59	-4,421.72	203.96	3,023.55	2,953.91	69.63	43.421						

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,807.00	7,178.00	6,780.33	48.99	39.14	48.59	-4,421.72	203.96	2,937.10	2,867.08	70.01	41.952		
8,800.00	7,806.99	7,178.00	6,780.33	50.16	39.14	48.59	-4,421.72	203.96	2,851.53	2,781.12	70.41	40.498		
8,900.00	7,806.99	7,178.00	6,780.33	51.37	39.14	48.59	-4,421.72	203.96	2,766.93	2,696.09	70.84	39.059		
9,000.00	7,806.99	7,178.00	6,780.33	52.60	39.14	48.59	-4,421.72	203.96	2,683.39	2,612.09	71.30	37.636		
9,100.00	7,806.99	7,178.00	6,780.33	53.87	39.14	48.59	-4,421.72	203.96	2,601.02	2,529.23	71.79	36.233		
9,200.00	7,806.99	7,178.00	6,780.33	55.17	39.14	48.59	-4,421.72	203.96	2,519.91	2,447.61	72.31	34.850		
9,300.00	7,806.99	7,178.00	6,780.33	56.49	39.14	48.59	-4,421.72	203.96	2,440.22	2,367.35	72.87	33.489		
9,400.00	7,806.99	7,178.00	6,780.33	57.83	39.14	48.59	-4,421.72	203.96	2,362.06	2,288.60	73.46	32.154		
9,500.00	7,806.99	7,178.00	6,780.33	59.20	39.14	48.59	-4,421.72	203.96	2,285.61	2,211.52	74.09	30.847		
9,600.00	7,806.98	7,178.00	6,780.33	60.59	39.14	48.59	-4,421.72	203.96	2,211.05	2,136.27	74.77	29.571		
9,700.00	7,806.98	7,178.00	6,780.33	62.00	39.14	48.59	-4,421.72	203.96	2,138.55	2,063.06	75.49	28.328		
9,800.00	7,806.98	7,178.00	6,780.33	63.43	39.14	48.59	-4,421.72	203.96	2,068.36	1,992.10	76.26	27.122		
9,900.00	7,806.98	7,178.00	6,780.33	64.87	39.14	48.59	-4,421.72	203.96	2,000.70	1,923.62	77.08	25.956		
10,000.00	7,806.98	7,178.00	6,780.33	66.34	39.14	48.59	-4,421.72	203.96	1,935.84	1,857.90	77.95	24.836		
10,100.00	7,806.98	7,178.00	6,780.33	67.81	39.14	48.59	-4,421.72	203.96	1,874.08	1,795.22	78.86	23.764		
10,200.00	7,806.98	7,178.00	6,780.33	69.30	39.14	48.59	-4,421.72	203.96	1,815.72	1,735.90	79.83	22.746		
10,300.00	7,806.98	7,178.00	6,780.33	70.81	39.14	48.59	-4,421.72	203.96	1,761.12	1,680.28	80.84	21.786		
10,400.00	7,806.97	7,178.00	6,780.33	72.32	39.14	48.59	-4,421.72	203.96	1,710.62	1,628.73	81.89	20.889		
10,500.00	7,806.97	7,178.00	6,780.33	73.85	39.14	48.59	-4,421.72	203.96	1,664.61	1,581.64	82.97	20.062		
10,600.00	7,806.97	7,178.00	6,780.33	75.39	39.14	48.59	-4,421.72	203.96	1,623.46	1,539.38	84.07	19.310		
10,700.00	7,806.97	7,178.00	6,780.33	76.94	39.14	48.59	-4,421.72	203.96	1,587.54	1,502.37	85.18	18.638		
10,800.00	7,806.97	7,178.00	6,780.33	78.49	39.14	48.59	-4,421.72	203.96	1,557.24	1,470.98	86.25	18.054		
10,900.00	7,806.97	7,178.00	6,780.33	80.06	39.14	48.59	-4,421.72	203.96	1,532.87	1,445.58	87.28	17.562		
11,000.00	7,806.97	7,178.00	6,780.33	81.64	39.14	48.59	-4,421.72	203.96	1,514.72	1,426.49	88.23	17.168		
11,100.00	7,806.97	7,178.00	6,780.33	83.22	39.14	48.59	-4,421.72	203.96	1,503.01	1,413.95	89.06	16.876		
11,200.00	7,806.96	7,178.00	6,780.33	84.81	39.14	48.59	-4,421.72	203.96	1,497.91	1,408.16	89.75	16.690		
11,226.56	7,806.96	7,178.00	6,780.33	85.24	39.14	48.59	-4,421.72	203.96	1,497.68	1,407.77	89.90	16.659 CC, ES		
11,300.00	7,806.96	7,178.00	6,780.33	86.41	39.14	48.59	-4,421.72	203.96	1,499.48	1,409.21	90.27	16.612 SF		
11,400.00	7,806.96	7,178.00	6,780.33	88.01	39.14	48.59	-4,421.72	203.96	1,507.69	1,417.09	90.60	16.641		
11,500.00	7,806.96	7,178.00	6,780.33	89.63	39.14	48.59	-4,421.72	203.96	1,522.43	1,431.70	90.74	16.779		
11,600.00	7,806.96	7,178.00	6,780.33	91.24	39.14	48.59	-4,421.72	203.96	1,543.53	1,452.85	90.68	17.021		
11,700.00	7,806.96	7,178.00	6,780.33	92.87	39.14	48.59	-4,421.72	203.96	1,570.73	1,480.28	90.45	17.367		
11,800.00	7,806.96	7,178.00	6,780.33	94.49	39.14	48.59	-4,421.72	203.96	1,603.71	1,513.66	90.05	17.810		
11,900.00	7,806.95	7,178.00	6,780.33	96.13	39.14	48.59	-4,421.72	203.96	1,642.12	1,552.61	89.51	18.346		
12,000.00	7,806.95	7,178.00	6,780.33	97.77	39.14	48.59	-4,421.72	203.96	1,685.60	1,596.75	88.85	18.971		
12,100.00	7,806.95	7,178.00	6,780.33	99.41	39.14	48.59	-4,421.72	203.96	1,733.76	1,645.66	88.11	19.678		
12,200.00	7,806.95	7,178.00	6,780.33	101.06	39.14	48.59	-4,421.72	203.96	1,786.23	1,698.93	87.30	20.461		
12,300.00	7,806.95	7,178.00	6,780.33	102.71	39.14	48.59	-4,421.72	203.96	1,842.64	1,756.19	86.45	21.315		
12,400.00	7,806.95	7,178.00	6,780.33	104.37	39.14	48.59	-4,421.72	203.96	1,902.63	1,817.06	85.57	22.235		
12,500.00	7,806.95	7,178.00	6,780.33	106.02	39.14	48.59	-4,421.72	203.96	1,965.88	1,881.19	84.69	23.213		
12,600.00	7,806.95	7,178.00	6,780.33	107.69	39.14	48.59	-4,421.72	203.96	2,032.09	1,948.28	83.81	24.246		
12,700.00	7,806.94	7,178.00	6,780.33	109.35	39.14	48.59	-4,421.72	203.96	2,100.97	2,018.02	82.95	25.327		
12,800.00	7,806.94	7,178.00	6,780.33	111.02	39.14	48.59	-4,421.72	203.96	2,172.27	2,090.15	82.12	26.453		
12,900.00	7,806.94	7,178.00	6,780.33	112.70	39.14	48.59	-4,421.72	203.96	2,245.76	2,164.45	81.31	27.618		
13,000.00	7,806.94	7,178.00	6,780.33	114.37	39.14	48.59	-4,421.72	203.96	2,321.24	2,240.69	80.55	28.819		
13,100.00	7,806.94	7,178.00	6,780.33	116.05	39.14	48.59	-4,421.72	203.96	2,398.50	2,318.69	79.81	30.052		
13,200.00	7,806.94	7,178.00	6,780.33	117.74	39.14	48.59	-4,421.72	203.96	2,477.40	2,398.28	79.12	31.313		
13,300.00	7,806.94	7,178.00	6,780.33	119.42	39.14	48.59	-4,421.72	203.96	2,557.77	2,479.31	78.46	32.599		
13,400.00	7,806.94	7,178.00	6,780.33	121.11	39.14	48.59	-4,421.72	203.96	2,639.49	2,561.64	77.84	33.907		
13,500.00	7,806.93	7,178.00	6,780.33	122.80	39.14	48.59	-4,421.72	203.96	2,722.42	2,645.16	77.26	35.235		
13,600.00	7,806.93	7,178.00	6,780.33	124.49	39.14	48.59	-4,421.72	203.96	2,806.47	2,729.75	76.72	36.581		
13,700.00	7,806.93	7,178.00	6,780.33	126.18	39.14	48.59	-4,421.72	203.96	2,891.53	2,815.32	76.21	37.941		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,806.93	7,178.00	6,780.33	127.88	39.14	48.59	-4,421.72	203.96	2,977.52	2,901.79	75.74	39.314		
13,900.00	7,806.93	7,178.00	6,780.33	129.58	39.14	48.59	-4,421.72	203.96	3,064.36	2,989.07	75.29	40.698		
14,000.00	7,806.93	7,178.00	6,780.33	131.28	39.14	48.59	-4,421.72	203.96	3,151.99	3,077.10	74.88	42.093		
14,100.00	7,806.93	7,178.00	6,780.33	132.98	39.14	48.59	-4,421.72	203.96	3,240.33	3,165.83	74.50	43.495		
14,200.00	7,806.93	7,178.00	6,780.33	134.68	39.14	48.59	-4,421.72	203.96	3,329.32	3,255.18	74.14	44.905		
14,300.00	7,806.92	7,178.00	6,780.33	136.39	39.14	48.59	-4,421.72	203.96	3,418.93	3,345.12	73.81	46.320		
14,400.00	7,806.92	7,178.00	6,780.33	138.10	39.14	48.59	-4,421.72	203.96	3,509.10	3,435.59	73.50	47.740		
14,500.00	7,806.92	7,178.00	6,780.33	139.81	39.14	48.59	-4,421.72	203.96	3,599.79	3,526.57	73.22	49.165		
14,600.00	7,806.92	7,178.00	6,780.33	141.52	39.14	48.59	-4,421.72	203.96	3,690.96	3,618.00	72.96	50.592		
14,700.00	7,806.92	7,178.00	6,780.33	143.23	39.14	48.59	-4,421.72	203.96	3,782.57	3,709.86	72.71	52.022		
14,800.00	7,806.92	7,178.00	6,780.33	144.94	39.14	48.59	-4,421.72	203.96	3,874.60	3,802.11	72.49	53.453		
14,900.00	7,806.92	7,178.00	6,780.33	146.66	39.14	48.59	-4,421.72	203.96	3,967.02	3,894.74	72.28	54.886		
15,000.00	7,806.92	7,178.00	6,780.33	148.37	39.14	48.59	-4,421.72	203.96	4,059.79	3,987.71	72.09	56.319		
15,100.00	7,806.91	7,178.00	6,780.33	150.09	39.14	48.59	-4,421.72	203.96	4,152.90	4,080.99	71.91	57.752		
15,200.00	7,806.91	7,178.00	6,780.33	151.81	39.14	48.59	-4,421.72	203.96	4,246.33	4,174.58	71.75	59.185		
15,300.00	7,806.91	7,178.00	6,780.33	153.53	39.14	48.59	-4,421.72	203.96	4,340.04	4,268.45	71.60	60.618		
15,400.00	7,806.91	7,178.00	6,780.33	155.25	39.14	48.59	-4,421.72	203.96	4,434.03	4,362.57	71.46	62.049		
15,500.00	7,806.91	7,178.00	6,780.33	156.97	39.14	48.59	-4,421.72	203.96	4,528.28	4,456.95	71.34	63.479		
15,600.00	7,806.91	7,178.00	6,780.33	158.70	39.14	48.59	-4,421.72	203.96	4,622.77	4,551.55	71.22	64.907		
15,700.00	7,806.91	7,178.00	6,780.33	160.42	39.14	48.59	-4,421.72	203.96	4,717.49	4,646.37	71.12	66.334		
15,800.00	7,806.91	7,178.00	6,780.33	162.15	39.14	48.59	-4,421.72	203.96	4,812.42	4,741.40	71.02	67.758		
15,900.00	7,806.90	7,178.00	6,780.33	163.88	39.14	48.59	-4,421.72	203.96	4,907.56	4,836.62	70.94	69.180		
16,000.00	7,806.90	7,178.00	6,780.33	165.60	39.14	48.59	-4,421.72	203.96	5,002.88	4,932.02	70.86	70.599		
16,100.00	7,806.90	7,178.00	6,780.33	167.33	39.14	48.59	-4,421.72	203.96	5,098.38	5,027.59	70.79	72.016		
16,200.00	7,806.90	7,178.00	6,780.33	169.06	39.14	48.59	-4,421.72	203.96	5,194.05	5,123.32	70.73	73.430		
16,300.00	7,806.90	7,178.00	6,780.33	170.79	39.14	48.59	-4,421.72	203.96	5,289.88	5,219.20	70.68	74.841		
16,400.00	7,806.90	7,178.00	6,780.33	172.52	39.14	48.59	-4,421.72	203.96	5,385.87	5,315.23	70.64	76.249		
16,500.00	7,806.90	7,178.00	6,780.33	174.26	39.14	48.59	-4,421.72	203.96	5,481.99	5,411.40	70.60	77.653		
16,600.00	7,806.89	7,178.00	6,780.33	175.99	39.14	48.59	-4,421.72	203.96	5,578.25	5,507.69	70.56	79.055		
16,700.00	7,806.89	7,178.00	6,780.33	177.72	39.14	48.59	-4,421.72	203.96	5,674.65	5,604.11	70.53	80.453		
16,800.00	7,806.89	7,178.00	6,780.33	179.46	39.14	48.59	-4,421.72	203.96	5,771.16	5,700.65	70.51	81.847		
16,900.00	7,806.89	7,178.00	6,780.33	181.19	39.14	48.59	-4,421.72	203.96	5,867.79	5,797.30	70.49	83.238		
17,000.00	7,806.89	7,178.00	6,780.33	182.93	39.14	48.59	-4,421.72	203.96	5,964.54	5,894.05	70.48	84.625		
17,100.00	7,806.89	7,178.00	6,780.33	184.67	39.14	48.59	-4,421.72	203.96	6,061.38	5,990.91	70.47	86.008		
17,200.00	7,806.89	7,178.00	6,780.33	186.40	39.14	48.59	-4,421.72	203.96	6,158.33	6,087.86	70.47	87.388		
17,300.00	7,806.89	7,178.00	6,780.33	188.14	39.14	48.59	-4,421.72	203.96	6,255.38	6,184.90	70.47	88.763		
17,400.00	7,806.88	7,178.00	6,780.33	189.88	39.14	48.59	-4,421.72	203.96	6,352.51	6,282.04	70.48	90.135		
17,500.00	7,806.88	7,178.00	6,780.33	191.62	39.14	48.59	-4,421.72	203.96	6,449.74	6,379.25	70.49	91.503		
17,600.00	7,806.88	7,178.00	6,780.33	193.36	39.14	48.59	-4,421.72	203.96	6,547.05	6,476.55	70.50	92.867		
17,700.00	7,806.88	7,178.00	6,780.33	195.10	39.14	48.59	-4,421.72	203.96	6,644.43	6,573.92	70.52	94.227		
17,800.00	7,806.88	7,178.00	6,780.33	196.84	39.14	48.59	-4,421.72	203.96	6,741.90	6,671.36	70.53	95.583		
17,900.00	7,806.88	7,178.00	6,780.33	198.58	39.14	48.59	-4,421.72	203.96	6,839.44	6,768.88	70.56	96.935		
18,000.00	7,806.88	7,178.00	6,780.33	200.33	39.14	48.59	-4,421.72	203.96	6,937.04	6,866.46	70.58	98.282		
18,027.46	7,807.00	7,178.00	6,780.33	200.80	39.14	48.58	-4,421.72	203.96	6,963.84	6,893.25	70.59	98.655		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	155.10	-3,282.49	1,523.34	3,618.94					
100.00	100.00	62.00	62.00	0.13	0.72	155.10	-3,282.49	1,523.34	3,618.74	3,617.89	0.85	4,244.553		
200.00	200.00	162.00	162.00	0.49	2.58	155.10	-3,282.49	1,523.34	3,618.74	3,615.67	3.08	1,176.332		
300.00	300.00	262.00	262.00	0.85	4.75	155.10	-3,282.49	1,523.34	3,618.74	3,613.15	5.60	646.526		
400.00	400.00	362.00	362.00	1.21	6.80	155.10	-3,282.49	1,523.34	3,618.74	3,610.73	8.01	451.667		
500.00	500.00	462.00	462.00	1.57	8.84	155.10	-3,282.49	1,523.34	3,618.74	3,608.34	10.40	347.803		
600.00	600.00	562.00	562.00	1.93	10.86	155.10	-3,282.49	1,523.34	3,618.74	3,605.95	12.79	282.974		
700.00	700.00	662.00	662.00	2.29	12.88	155.10	-3,282.49	1,523.34	3,618.74	3,603.58	15.17	238.588		
800.00	800.00	762.00	762.00	2.64	14.90	155.10	-3,282.49	1,523.34	3,618.74	3,601.20	17.54	206.269		
900.00	900.00	862.00	862.00	3.00	16.92	155.10	-3,282.49	1,523.34	3,618.74	3,598.82	19.92	181.677		
1,000.00	1,000.00	962.00	962.00	3.36	18.93	155.10	-3,282.49	1,523.34	3,618.74	3,596.45	22.29	162.333		
1,100.00	1,099.98	1,061.98	1,061.98	3.71	20.95	28.13	-3,282.49	1,523.34	3,617.20	3,592.55	24.65	146.737		
1,200.00	1,199.84	1,161.84	1,161.84	4.04	22.96	28.21	-3,282.49	1,523.34	3,612.59	3,585.59	27.00	133.810		
1,300.00	1,299.45	1,261.45	1,261.45	4.39	24.96	28.35	-3,282.49	1,523.34	3,604.91	3,575.56	29.34	122.846		
1,400.00	1,398.70	1,360.70	1,360.70	4.74	26.96	28.54	-3,282.49	1,523.34	3,594.17	3,562.48	31.69	113.417		
1,500.00	1,497.47	1,459.47	1,459.47	5.12	28.95	28.80	-3,282.49	1,523.34	3,580.41	3,546.38	34.03	105.211		
1,600.00	1,595.62	1,557.62	1,557.62	5.51	30.92	29.11	-3,282.49	1,523.34	3,563.64	3,527.27	36.37	97.993		
1,700.00	1,693.06	1,655.06	1,655.06	5.94	32.88	29.48	-3,282.49	1,523.34	3,543.90	3,505.21	38.70	91.584		
1,800.00	1,789.64	1,751.64	1,751.64	6.39	34.83	29.92	-3,282.49	1,523.34	3,521.23	3,480.22	41.02	85.846		
1,863.26	1,850.25	1,812.25	1,812.25	6.70	36.05	30.23	-3,282.49	1,523.34	3,505.40	3,462.92	42.48	82.510		
1,900.00	1,885.34	1,847.34	1,847.34	6.89	36.75	30.32	-3,282.49	1,523.34	3,495.88	3,452.54	43.34	80.671		
2,000.00	1,980.83	1,942.83	1,942.83	7.41	38.67	30.56	-3,282.49	1,523.34	3,469.99	3,424.34	45.65	76.009		
2,100.00	2,076.33	2,038.33	2,038.33	7.95	40.59	30.81	-3,282.49	1,523.34	3,444.17	3,396.19	47.98	71.784		
2,200.00	2,171.82	2,133.82	2,133.82	8.50	42.52	31.06	-3,282.49	1,523.34	3,418.41	3,368.10	50.31	67.941		
2,300.00	2,267.32	2,229.32	2,229.32	9.07	44.44	31.32	-3,282.49	1,523.34	3,392.72	3,340.06	52.66	64.430		
2,400.00	2,362.81	2,324.81	2,324.81	9.64	46.36	31.58	-3,282.49	1,523.34	3,367.09	3,312.08	55.01	61.212		
2,500.00	2,458.30	2,420.30	2,420.30	10.22	48.28	31.84	-3,282.49	1,523.34	3,341.53	3,284.16	57.36	58.253		
2,600.00	2,553.80	2,515.80	2,515.80	10.81	50.20	32.11	-3,282.49	1,523.34	3,316.03	3,256.31	59.72	55.523		
2,700.00	2,649.29	2,611.29	2,611.29	11.41	52.12	32.38	-3,282.49	1,523.34	3,290.61	3,228.52	62.09	52.997		
2,800.00	2,744.79	2,706.79	2,706.79	12.01	54.04	32.65	-3,282.49	1,523.34	3,265.26	3,200.80	64.46	50.654		
2,900.00	2,840.28	2,802.28	2,802.28	12.61	55.96	32.93	-3,282.49	1,523.34	3,239.98	3,173.14	66.84	48.475		
3,000.00	2,935.77	2,902.23	2,897.77	13.22	57.97	33.22	-3,282.49	1,523.34	3,214.78	3,145.47	69.31	46.383		
3,100.00	3,031.27	3,006.73	2,993.27	13.83	60.07	33.51	-3,282.49	1,523.34	3,189.65	3,117.78	71.88	44.377		
3,200.00	3,126.76	3,088.76	3,088.76	14.44	61.72	33.80	-3,282.49	1,523.34	3,164.60	3,090.61	73.99	42.768		
3,300.00	3,222.26	3,184.26	3,184.26	15.06	63.64	34.10	-3,282.49	1,523.34	3,139.64	3,063.25	76.39	41.101		
3,400.00	3,317.75	3,279.75	3,279.75	15.68	65.56	34.40	-3,282.49	1,523.34	3,114.75	3,035.97	78.79	39.534		
3,500.00	3,413.25	3,375.25	3,375.25	16.30	67.49	34.70	-3,282.49	1,523.34	3,089.96	3,008.77	81.19	38.059		
3,600.00	3,508.74	3,470.74	3,470.74	16.92	69.41	35.01	-3,282.49	1,523.34	3,065.24	2,981.65	83.59	36.668		
3,700.00	3,604.23	3,566.23	3,566.23	17.54	71.33	35.33	-3,282.49	1,523.34	3,040.62	2,954.62	86.00	35.354		
3,800.00	3,699.73	3,661.73	3,661.73	18.17	73.25	35.65	-3,282.49	1,523.34	3,016.09	2,927.67	88.42	34.111		
3,900.00	3,795.22	3,757.22	3,757.22	18.79	75.17	35.98	-3,282.49	1,523.34	2,991.65	2,900.81	90.84	32.934		
4,000.00	3,890.72	3,852.72	3,852.72	19.42	77.09	36.31	-3,282.49	1,523.34	2,967.31	2,874.05	93.26	31.818		
4,100.00	3,986.21	3,948.21	3,948.21	20.05	79.01	36.65	-3,282.49	1,523.34	2,943.06	2,847.38	95.68	30.758		
4,200.00	4,081.70	4,043.70	4,043.70	20.67	80.93	36.99	-3,282.49	1,523.34	2,918.92	2,820.80	98.11	29.750		
4,300.00	4,177.20	4,139.20	4,139.20	21.30	82.85	37.34	-3,282.49	1,523.34	2,894.87	2,794.32	100.55	28.791		
4,400.00	4,272.69	4,234.69	4,234.69	21.93	84.77	37.69	-3,282.49	1,523.34	2,870.94	2,767.95	102.99	27.877		
4,500.00	4,368.19	4,330.19	4,330.19	22.56	86.69	38.05	-3,282.49	1,523.34	2,847.11	2,741.68	105.43	27.005		
4,600.00	4,463.68	4,425.68	4,425.68	23.19	88.61	38.41	-3,282.49	1,523.34	2,823.39	2,715.51	107.88	26.173		
4,700.00	4,559.17	4,521.17	4,521.17	23.83	90.53	38.78	-3,282.49	1,523.34	2,799.79	2,689.46	110.33	25.377		
4,800.00	4,654.67	4,616.67	4,616.67	24.46	92.45	39.16	-3,282.49	1,523.34	2,776.30	2,663.52	112.78	24.616		
4,900.00	4,750.16	4,712.16	4,712.16	25.09	94.37	39.54	-3,282.49	1,523.34	2,752.93	2,637.69	115.24	23.888		
5,000.00	4,845.66	4,807.66	4,807.66	25.72	96.29	39.93	-3,282.49	1,523.34	2,729.69	2,611.98	117.71	23.191		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,903.15	4,903.15	26.36	98.21	40.33	-3,282.49	1,523.34	2,706.57	2,586.39	120.17	22.522		
5,200.00	5,036.65	5,001.35	4,998.65	26.99	100.19	40.73	-3,282.49	1,523.34	2,683.58	2,560.88	122.70	21.871		
5,300.00	5,132.14	5,105.86	5,094.14	27.63	102.29	41.14	-3,282.49	1,523.34	2,660.72	2,535.36	125.36	21.224		
5,400.00	5,227.63	5,189.63	5,189.63	28.26	103.98	41.56	-3,282.49	1,523.34	2,638.00	2,510.39	127.61	20.673		
5,500.00	5,323.13	5,285.13	5,285.13	28.90	105.90	41.98	-3,282.49	1,523.34	2,615.42	2,485.32	130.10	20.104		
5,600.00	5,418.62	5,380.62	5,380.62	29.53	107.82	42.41	-3,282.49	1,523.34	2,592.98	2,460.39	132.59	19.556		
5,700.00	5,514.12	5,476.12	5,476.12	30.17	109.74	42.85	-3,282.49	1,523.34	2,570.68	2,435.60	135.09	19.030		
5,800.00	5,609.61	5,571.61	5,571.61	30.80	111.66	43.29	-3,282.49	1,523.34	2,548.54	2,410.95	137.59	18.523		
5,900.00	5,705.10	5,667.10	5,667.10	31.44	113.58	43.74	-3,282.49	1,523.34	2,526.55	2,386.46	140.10	18.034		
6,000.00	5,800.60	5,762.60	5,762.60	32.08	115.50	44.20	-3,282.49	1,523.34	2,504.73	2,362.12	142.61	17.563		
6,100.00	5,896.09	5,858.09	5,858.09	32.71	117.42	44.67	-3,282.49	1,523.34	2,483.06	2,337.93	145.13	17.109		
6,200.00	5,991.59	5,953.59	5,953.59	33.35	119.34	45.14	-3,282.49	1,523.34	2,461.56	2,313.91	147.65	16.671		
6,300.00	6,087.08	6,049.08	6,049.08	33.99	121.26	45.63	-3,282.49	1,523.34	2,440.23	2,290.05	150.18	16.248		
6,400.00	6,182.57	6,144.57	6,144.57	34.62	123.18	46.12	-3,282.49	1,523.34	2,419.08	2,266.37	152.72	15.840		
6,499.99	6,278.06	6,240.06	6,240.06	35.26	125.10	46.62	-3,282.49	1,523.34	2,398.12	2,242.86	155.26	15.446		
6,505.95	6,283.75	6,245.75	6,245.75	35.30	125.21	46.65	-3,282.49	1,523.34	2,396.87	2,241.46	155.41	15.423		
6,600.00	6,374.00	6,336.00	6,336.00	35.88	127.03	46.82	-3,282.49	1,523.34	2,378.36	2,220.57	157.79	15.073		
6,700.00	6,470.87	6,432.87	6,432.87	36.44	128.98	47.00	-3,282.49	1,523.34	2,361.10	2,200.79	160.31	14.728		
6,800.00	6,568.53	6,530.53	6,530.53	36.96	130.94	47.16	-3,282.49	1,523.34	2,346.31	2,183.51	162.80	14.412		
6,900.00	6,666.89	6,628.89	6,628.89	37.43	132.92	47.29	-3,282.49	1,523.34	2,333.96	2,168.70	165.26	14.123		
7,000.00	6,765.82	6,727.82	6,727.82	37.85	134.91	47.41	-3,282.49	1,523.34	2,324.03	2,156.33	167.69	13.859		
7,100.00	6,865.19	6,827.19	6,827.19	38.22	136.91	47.50	-3,282.49	1,523.34	2,316.48	2,146.39	170.09	13.619		
7,200.00	6,964.89	6,926.89	6,926.89	38.55	138.91	47.56	-3,282.49	1,523.34	2,311.31	2,138.86	172.45	13.403		
7,300.00	7,064.80	7,026.80	7,026.80	38.83	140.92	47.60	-3,282.49	1,523.34	2,308.51	2,133.74	174.77	13.209		
7,369.20	7,134.00	7,104.00	7,096.00	39.00	142.47	174.61	-3,282.49	1,523.34	2,307.94	2,131.44	176.51	13.076		
7,400.00	7,164.80	7,126.80	7,126.80	39.06	142.93	174.61	-3,282.49	1,523.34	2,307.94	2,130.90	177.04	13.036		
7,469.20	7,234.00	7,204.00	7,196.00	39.22	144.48	174.61	-3,282.49	1,523.34	2,307.94	2,129.17	178.77	12.910		
7,500.00	7,264.78	7,226.78	7,226.78	39.29	144.94	-5.05	-3,282.49	1,523.34	2,307.12	2,127.81	179.30	12.867		
7,550.00	7,314.53	7,276.53	7,276.53	39.44	145.94	-5.11	-3,282.49	1,523.34	2,302.28	2,121.84	180.43	12.760		
7,600.00	7,363.66	7,325.66	7,325.66	39.62	146.93	-5.21	-3,282.49	1,523.34	2,293.14	2,111.58	181.55	12.631		
7,650.00	7,411.81	7,373.81	7,373.81	39.82	147.90	-5.37	-3,282.49	1,523.34	2,279.77	2,097.12	182.65	12.482		
7,700.00	7,458.61	7,420.61	7,420.61	40.06	148.84	-5.59	-3,282.49	1,523.34	2,262.27	2,078.55	183.72	12.314		
7,750.00	7,503.69	7,465.69	7,465.69	40.32	149.75	-5.89	-3,282.49	1,523.34	2,240.78	2,056.03	184.75	12.129		
7,800.00	7,546.72	7,508.72	7,508.72	40.60	150.61	-6.27	-3,282.49	1,523.34	2,215.45	2,029.73	185.72	11.929		
7,850.00	7,587.38	7,549.38	7,549.38	40.92	151.43	-6.75	-3,282.49	1,523.34	2,186.50	1,999.85	186.65	11.715		
7,900.00	7,625.34	7,587.34	7,587.34	41.25	152.19	-7.38	-3,282.49	1,523.34	2,154.13	1,966.63	187.50	11.489		
7,950.00	7,660.33	7,622.33	7,622.33	41.61	152.90	-8.20	-3,282.49	1,523.34	2,118.59	1,930.31	188.28	11.252		
8,000.00	7,692.07	7,654.07	7,654.07	42.00	153.54	-9.27	-3,282.49	1,523.34	2,080.16	1,891.19	188.98	11.008		
8,050.00	7,720.33	7,682.33	7,682.33	42.40	154.10	-10.71	-3,282.49	1,523.34	2,039.13	1,849.55	189.58	10.756		
8,100.00	7,744.89	7,706.89	7,706.89	42.83	154.60	-12.72	-3,282.49	1,523.34	1,995.82	1,805.72	190.10	10.499		
8,150.00	7,765.56	7,727.56	7,727.56	43.27	155.01	-15.65	-3,282.49	1,523.34	1,950.55	1,760.03	190.52	10.238		
8,200.00	7,782.18	7,744.18	7,744.18	43.74	155.35	-20.22	-3,282.49	1,523.34	1,903.67	1,712.84	190.83	9.976		
8,250.00	7,794.63	7,756.63	7,756.63	44.22	155.60	-28.04	-3,282.49	1,523.34	1,855.55	1,664.50	191.04	9.713		
8,300.00	7,802.82	7,764.82	7,764.82	44.71	155.76	-43.15	-3,282.49	1,523.34	1,806.54	1,615.39	191.15	9.451		
8,350.00	7,806.68	7,768.68	7,768.68	45.21	155.84	-73.87	-3,282.49	1,523.34	1,757.03	1,565.88	191.15	9.192		
8,369.28	7,807.00	7,769.00	7,769.00	45.40	155.85	-90.01	-3,282.49	1,523.34	1,737.89	1,546.77	191.12	9.093		
8,400.00	7,807.00	7,769.00	7,769.00	45.72	155.85	-90.01	-3,282.49	1,523.34	1,707.38	1,516.32	191.06	8.936		
8,500.00	7,807.00	7,769.00	7,769.00	46.77	155.85	-90.01	-3,282.49	1,523.34	1,608.13	1,417.28	190.85	8.426		
8,600.00	7,807.00	7,769.00	7,769.00	47.86	155.85	-90.01	-3,282.49	1,523.34	1,508.98	1,318.36	190.62	7.916		
8,700.00	7,807.00	7,769.00	7,769.00	48.99	155.85	-90.01	-3,282.49	1,523.34	1,409.96	1,219.59	190.36	7.407		
8,800.00	7,806.99	7,768.99	7,768.99	50.16	155.85	-90.00	-3,282.49	1,523.34	1,311.08	1,121.00	190.07	6.898		
8,900.00	7,806.99	7,768.99	7,768.99	51.37	155.85	-90.00	-3,282.49	1,523.34	1,212.38	1,022.64	189.75	6.389		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,768.99	7,768.99	52.60	155.85	-90.00	-3,282.49	1,523.34	1,113.92	924.54	189.37	5.882		
9,100.00	7,806.99	7,768.99	7,768.99	53.87	155.85	-90.00	-3,282.49	1,523.34	1,015.76	826.80	188.95	5.376		
9,200.00	7,806.99	7,768.99	7,768.99	55.17	155.85	-90.00	-3,282.49	1,523.34	917.99	729.51	188.48	4.871		
9,300.00	7,806.99	7,768.99	7,768.99	56.49	155.85	-90.00	-3,282.49	1,523.34	820.76	632.81	187.95	4.367		
9,400.00	7,806.99	7,768.99	7,768.99	57.83	155.85	-90.00	-3,282.49	1,523.34	724.29	536.91	187.38	3.865		
9,500.00	7,806.99	7,768.99	7,768.99	59.20	155.85	-90.00	-3,282.49	1,523.34	628.92	442.10	186.82	3.366		
9,600.00	7,806.98	7,768.98	7,768.98	60.59	155.85	-90.00	-3,282.49	1,523.34	535.25	348.81	186.44	2.871		
9,700.00	7,806.98	7,768.98	7,768.98	62.00	155.85	-90.00	-3,282.49	1,523.34	444.34	257.68	186.65	2.381		
9,800.00	7,806.98	7,768.98	7,768.98	63.43	155.85	-90.00	-3,282.49	1,523.34	358.30	169.74	188.56	1.900		
9,900.00	7,806.98	7,768.98	7,768.98	64.87	155.85	-90.00	-3,282.49	1,523.34	281.65	87.18	194.47	1.448 Level 3		
10,000.00	7,806.98	7,768.98	7,768.98	66.34	155.85	-90.00	-3,282.49	1,523.34	224.21	17.47	206.74	1.085 Level 2		
10,095.27	7,806.98	7,768.98	7,768.98	67.74	155.85	-90.00	-3,282.49	1,523.34	202.96	-17.20	220.17	0.922 Level 1, CC		
10,100.00	7,806.98	7,768.98	7,768.98	67.81	155.85	-90.00	-3,282.49	1,523.34	203.02	-17.64	220.66	0.920 Level 1, ES, SF		
10,200.00	7,806.98	7,768.98	7,768.98	69.30	155.85	-90.00	-3,282.49	1,523.34	228.39	3.69	224.70	1.016 Level 2		
10,300.00	7,806.98	7,768.98	7,768.98	70.81	155.85	-90.00	-3,282.49	1,523.34	288.28	67.29	220.99	1.304 Level 3		
10,400.00	7,806.97	7,768.97	7,768.97	72.32	155.85	-90.00	-3,282.49	1,523.34	366.13	149.86	216.28	1.693		
10,500.00	7,806.97	7,768.97	7,768.97	73.85	155.85	-90.00	-3,282.49	1,523.34	452.77	240.27	212.50	2.131		
10,600.00	7,806.97	7,768.97	7,768.97	75.39	155.85	-90.00	-3,282.49	1,523.34	544.01	334.32	209.69	2.594		
10,700.00	7,806.97	7,768.97	7,768.97	76.94	155.85	-90.00	-3,282.49	1,523.34	637.88	430.28	207.60	3.073		
10,800.00	7,806.97	7,768.97	7,768.97	78.49	155.85	-90.00	-3,282.49	1,523.34	733.37	527.36	206.01	3.560		
10,900.00	7,806.97	7,768.97	7,768.97	80.06	155.85	-90.00	-3,282.49	1,523.34	829.93	625.15	204.78	4.053		
11,000.00	7,806.97	7,768.97	7,768.97	81.64	155.85	-90.00	-3,282.49	1,523.34	927.22	723.41	203.81	4.549		
11,100.00	7,806.97	7,768.97	7,768.97	83.22	155.85	-90.00	-3,282.49	1,523.34	1,025.02	822.00	203.02	5.049		
11,200.00	7,806.96	7,768.96	7,768.96	84.81	155.85	-90.00	-3,282.49	1,523.34	1,123.22	920.84	202.38	5.550		
11,300.00	7,806.96	7,768.96	7,768.96	86.41	155.85	-90.00	-3,282.49	1,523.34	1,221.71	1,019.86	201.84	6.053		
11,400.00	7,806.96	7,768.96	7,768.96	88.01	155.85	-90.00	-3,282.49	1,523.34	1,320.42	1,119.03	201.39	6.556		
11,500.00	7,806.96	7,768.96	7,768.96	89.63	155.85	-89.99	-3,282.49	1,523.34	1,419.32	1,218.31	201.01	7.061		
11,600.00	7,806.96	7,768.96	7,768.96	91.24	155.85	-89.99	-3,282.49	1,523.34	1,518.36	1,317.67	200.68	7.566		
11,700.00	7,806.96	7,768.96	7,768.96	92.87	155.85	-89.99	-3,282.49	1,523.34	1,617.51	1,417.11	200.40	8.071		
11,800.00	7,806.96	7,768.96	7,768.96	94.49	155.85	-89.99	-3,282.49	1,523.34	1,716.77	1,516.61	200.15	8.577		
11,900.00	7,806.95	7,768.95	7,768.95	96.13	155.85	-89.99	-3,282.49	1,523.34	1,816.11	1,616.16	199.94	9.083		
12,000.00	7,806.95	7,768.95	7,768.95	97.77	155.85	-89.99	-3,282.49	1,523.34	1,915.51	1,715.76	199.76	9.589		
12,100.00	7,806.95	7,768.95	7,768.95	99.41	155.85	-89.99	-3,282.49	1,523.34	2,014.98	1,815.39	199.59	10.095		
12,200.00	7,806.95	7,768.95	7,768.95	101.06	155.85	-89.99	-3,282.49	1,523.34	2,114.49	1,915.04	199.45	10.602		
12,300.00	7,806.95	7,768.95	7,768.95	102.71	155.85	-89.99	-3,282.49	1,523.34	2,214.05	2,014.73	199.32	11.108		
12,400.00	7,806.95	7,768.95	7,768.95	104.37	155.85	-89.99	-3,282.49	1,523.34	2,313.65	2,114.44	199.21	11.614		
12,500.00	7,806.95	7,768.95	7,768.95	106.02	155.85	-89.99	-3,282.49	1,523.34	2,413.28	2,214.17	199.11	12.120		
12,600.00	7,806.95	7,768.95	7,768.95	107.69	155.85	-89.99	-3,282.49	1,523.34	2,512.94	2,313.92	199.02	12.626		
12,700.00	7,806.94	7,768.94	7,768.94	109.35	155.85	-89.99	-3,282.49	1,523.34	2,612.62	2,413.68	198.95	13.132		
12,800.00	7,806.94	7,768.94	7,768.94	111.02	155.85	-89.99	-3,282.49	1,523.34	2,712.33	2,513.45	198.88	13.638		
12,900.00	7,806.94	7,768.94	7,768.94	112.70	155.85	-89.99	-3,282.49	1,523.34	2,812.06	2,613.24	198.82	14.144		
13,000.00	7,806.94	7,768.94	7,768.94	114.37	155.85	-89.99	-3,282.49	1,523.34	2,911.81	2,713.04	198.77	14.649		
13,100.00	7,806.94	7,768.94	7,768.94	116.05	155.85	-89.99	-3,282.49	1,523.34	3,011.58	2,812.85	198.72	15.155		
13,200.00	7,806.94	7,768.94	7,768.94	117.74	155.85	-89.99	-3,282.49	1,523.34	3,111.36	2,912.67	198.69	15.660		
13,300.00	7,806.94	7,768.94	7,768.94	119.42	155.85	-89.99	-3,282.49	1,523.34	3,211.15	3,012.50	198.65	16.165		
13,400.00	7,806.94	7,768.94	7,768.94	121.11	155.85	-89.99	-3,282.49	1,523.34	3,310.96	3,112.33	198.63	16.669		
13,500.00	7,806.93	7,768.93	7,768.93	122.80	155.85	-89.99	-3,282.49	1,523.34	3,410.77	3,212.17	198.60	17.174		
13,600.00	7,806.93	7,768.93	7,768.93	124.49	155.85	-89.99	-3,282.49	1,523.34	3,510.60	3,312.02	198.58	17.678		
13,700.00	7,806.93	7,768.93	7,768.93	126.18	155.85	-89.99	-3,282.49	1,523.34	3,610.44	3,411.87	198.57	18.182		
13,800.00	7,806.93	7,768.93	7,768.93	127.88	155.85	-89.99	-3,282.49	1,523.34	3,710.28	3,511.72	198.56	18.686		
13,900.00	7,806.93	7,768.93	7,768.93	129.58	155.85	-89.99	-3,282.49	1,523.34	3,810.14	3,611.58	198.55	19.189		
14,000.00	7,806.93	7,768.93	7,768.93	131.28	155.85	-89.99	-3,282.49	1,523.34	3,910.00	3,711.45	198.55	19.693		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,768.93	7,768.93	132.98	155.85	-89.99	-3,282.49	1,523.34	4,009.87	3,811.32	198.55	20.196		
14,200.00	7,806.93	7,768.93	7,768.93	134.68	155.85	-89.99	-3,282.49	1,523.34	4,109.74	3,911.19	198.55	20.698		
14,300.00	7,806.92	7,768.92	7,768.92	136.39	155.85	-89.98	-3,282.49	1,523.34	4,209.62	4,011.07	198.56	21.201		
14,400.00	7,806.92	7,768.92	7,768.92	138.10	155.85	-89.98	-3,282.49	1,523.34	4,309.51	4,110.94	198.57	21.703		
14,500.00	7,806.92	7,768.92	7,768.92	139.81	155.85	-89.98	-3,282.49	1,523.34	4,409.40	4,210.82	198.58	22.205		
14,600.00	7,806.92	7,768.92	7,768.92	141.52	155.85	-89.98	-3,282.49	1,523.34	4,509.30	4,310.71	198.59	22.706		
14,700.00	7,806.92	7,768.92	7,768.92	143.23	155.84	-89.98	-3,282.49	1,523.34	4,609.20	4,410.59	198.61	23.208		
14,800.00	7,806.92	7,768.92	7,768.92	144.94	155.84	-89.98	-3,282.49	1,523.34	4,709.10	4,510.48	198.62	23.709		
14,900.00	7,806.92	7,768.92	7,768.92	146.66	155.84	-89.98	-3,282.49	1,523.34	4,809.01	4,610.37	198.64	24.209		
15,000.00	7,806.92	7,768.92	7,768.92	148.37	155.84	-89.98	-3,282.49	1,523.34	4,908.93	4,710.26	198.67	24.709		
15,100.00	7,806.91	7,768.91	7,768.91	150.09	155.84	-89.98	-3,282.49	1,523.34	5,008.84	4,810.15	198.69	25.209		
15,200.00	7,806.91	7,768.91	7,768.91	151.81	155.84	-89.98	-3,282.49	1,523.34	5,108.76	4,910.05	198.71	25.709		
15,300.00	7,806.91	7,768.91	7,768.91	153.53	155.84	-89.98	-3,282.49	1,523.34	5,208.68	5,009.94	198.74	26.208		
15,400.00	7,806.91	7,768.91	7,768.91	155.25	155.84	-89.98	-3,282.49	1,523.34	5,308.61	5,109.84	198.77	26.707		
15,500.00	7,806.91	7,768.91	7,768.91	156.97	155.84	-89.98	-3,282.49	1,523.34	5,408.54	5,209.74	198.80	27.206		
15,600.00	7,806.91	7,768.91	7,768.91	158.70	155.84	-89.98	-3,282.49	1,523.34	5,508.47	5,309.64	198.83	27.704		
15,700.00	7,806.91	7,768.91	7,768.91	160.42	155.84	-89.98	-3,282.49	1,523.34	5,608.40	5,409.54	198.87	28.202		
15,800.00	7,806.91	7,768.91	7,768.91	162.15	155.84	-89.98	-3,282.49	1,523.34	5,708.34	5,509.44	198.90	28.700		
15,900.00	7,806.90	7,768.90	7,768.90	163.88	155.84	-89.98	-3,282.49	1,523.34	5,808.28	5,609.34	198.94	29.197		
16,000.00	7,806.90	7,768.90	7,768.90	165.60	155.84	-89.98	-3,282.49	1,523.34	5,908.22	5,709.24	198.97	29.694		
16,100.00	7,806.90	7,768.90	7,768.90	167.33	155.84	-89.98	-3,282.49	1,523.34	6,008.16	5,809.15	199.01	30.190		
16,200.00	7,806.90	7,768.90	7,768.90	169.06	155.84	-89.98	-3,282.49	1,523.34	6,108.10	5,909.05	199.05	30.686		
16,300.00	7,806.90	7,768.90	7,768.90	170.79	155.84	-89.98	-3,282.49	1,523.34	6,208.05	6,008.96	199.09	31.182		
16,400.00	7,806.90	7,768.90	7,768.90	172.52	155.84	-89.98	-3,282.49	1,523.34	6,307.99	6,108.86	199.13	31.677		
16,500.00	7,806.90	7,768.90	7,768.90	174.26	155.84	-89.98	-3,282.49	1,523.34	6,407.94	6,208.77	199.18	32.172		
16,600.00	7,806.89	7,768.89	7,768.89	175.99	155.84	-89.98	-3,282.49	1,523.34	6,507.89	6,308.67	199.22	32.667		
16,700.00	7,806.89	7,768.89	7,768.89	177.72	155.84	-89.98	-3,282.49	1,523.34	6,607.85	6,408.58	199.27	33.161		
16,800.00	7,806.89	7,768.89	7,768.89	179.46	155.84	-89.98	-3,282.49	1,523.34	6,707.80	6,508.49	199.31	33.654		
16,900.00	7,806.89	7,768.89	7,768.89	181.19	155.84	-89.98	-3,282.49	1,523.34	6,807.76	6,608.39	199.36	34.148		
17,000.00	7,806.89	7,768.89	7,768.89	182.93	155.84	-89.98	-3,282.49	1,523.34	6,907.71	6,708.30	199.41	34.641		
17,100.00	7,806.89	7,768.89	7,768.89	184.67	155.84	-89.97	-3,282.49	1,523.34	7,007.67	6,808.21	199.46	35.133		
17,200.00	7,806.89	7,768.89	7,768.89	186.40	155.84	-89.97	-3,282.49	1,523.34	7,107.63	6,908.12	199.51	35.625		
17,300.00	7,806.89	7,768.89	7,768.89	188.14	155.84	-89.97	-3,282.49	1,523.34	7,207.59	7,008.03	199.56	36.117		
17,400.00	7,806.88	7,768.88	7,768.88	189.88	155.84	-89.97	-3,282.49	1,523.34	7,307.55	7,107.93	199.61	36.608		
17,500.00	7,806.88	7,768.88	7,768.88	191.62	155.84	-89.97	-3,282.49	1,523.34	7,407.51	7,207.84	199.67	37.099		
17,600.00	7,806.88	7,768.88	7,768.88	193.36	155.84	-89.97	-3,282.49	1,523.34	7,507.47	7,307.75	199.72	37.590		
17,700.00	7,806.88	7,768.88	7,768.88	195.10	155.84	-89.97	-3,282.49	1,523.34	7,607.44	7,407.66	199.78	38.080		
17,800.00	7,806.88	7,768.88	7,768.88	196.84	155.84	-89.97	-3,282.49	1,523.34	7,707.40	7,507.57	199.83	38.569		
17,900.00	7,806.88	7,768.88	7,768.88	198.58	155.84	-89.97	-3,282.49	1,523.34	7,807.37	7,607.48	199.89	39.059		
18,000.00	7,806.88	7,768.88	7,768.88	200.33	155.84	-89.97	-3,282.49	1,523.34	7,907.33	7,707.39	199.95	39.547		
18,027.46	7,807.00	7,769.00	7,769.00	200.80	155.85	-89.97	-3,282.49	1,523.34	7,934.80	7,734.83	199.97	39.680		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	155.77	-3,285.40	1,478.80	3,602.93					
100.00	100.00	1,230.50	1,208.00	0.13	5.36	156.65	-3,142.14	1,356.51	3,603.23	3,597.98	5.25	685.983		
200.00	200.00	1,315.56	1,288.40	0.49	5.89	156.78	-3,120.56	1,339.05	3,571.73	3,565.99	5.74	621.954		
300.00	300.00	1,378.07	1,347.78	0.85	6.28	156.86	-3,105.02	1,327.22	3,541.28	3,535.05	6.23	568.264		
400.00	400.00	1,537.44	1,498.73	1.21	7.29	157.08	-3,064.73	1,295.77	3,510.12	3,502.91	7.20	487.294		
500.00	500.00	1,708.07	1,659.03	1.57	8.43	157.35	-3,018.56	1,259.90	3,476.61	3,468.36	8.25	421.309		
600.00	600.00	1,778.53	1,725.14	1.93	8.90	157.45	-2,998.93	1,245.50	3,442.95	3,434.08	8.87	387.941		
700.00	700.00	1,834.00	1,777.38	2.29	9.27	157.52	-2,983.89	1,234.45	3,410.21	3,400.76	9.45	361.004		
800.00	800.00	1,905.78	1,845.17	2.64	9.74	157.63	-2,965.08	1,220.17	3,378.31	3,368.21	10.10	334.608		
900.00	900.00	1,993.47	1,928.08	3.00	10.32	157.78	-2,942.93	1,202.18	3,347.01	3,336.19	10.82	309.267		
1,000.00	1,000.00	2,056.71	1,987.85	3.36	10.74	157.90	-2,927.39	1,188.59	3,316.04	3,304.59	11.45	289.516		
1,100.00	1,099.98	2,116.00	2,044.12	3.71	11.12	31.37	-2,913.81	1,175.76	3,284.95	3,272.89	12.07	272.226		
1,200.00	1,199.84	2,232.85	2,155.02	4.04	11.88	32.08	-2,887.61	1,149.87	3,251.53	3,238.61	12.93	251.550		
1,300.00	1,299.45	2,344.92	2,260.95	4.39	12.62	32.86	-2,860.61	1,125.20	3,213.80	3,200.04	13.77	233.438		
1,400.00	1,398.70	2,407.55	2,320.33	4.74	13.03	33.56	-2,845.70	1,112.01	3,174.13	3,159.73	14.40	220.360		
1,500.00	1,497.47	2,500.76	2,408.76	5.12	13.64	34.45	-2,823.81	1,092.30	3,132.17	3,117.00	15.17	206.422		
1,600.00	1,595.62	2,567.60	2,472.25	5.51	14.07	35.33	-2,808.27	1,078.34	3,088.01	3,072.17	15.84	194.913		
1,700.00	1,693.06	2,689.18	2,587.69	5.94	14.86	36.59	-2,779.50	1,053.30	3,041.24	3,024.50	16.74	181.646		
1,800.00	1,789.64	2,749.65	2,645.06	6.39	15.25	37.64	-2,765.08	1,040.73	2,991.97	2,974.55	17.41	171.821		
1,863.26	1,850.25	2,788.50	2,681.98	6.70	15.50	38.35	-2,756.05	1,032.72	2,959.99	2,942.14	17.85	165.825		
1,900.00	1,885.34	2,811.91	2,704.27	6.89	15.65	38.52	-2,750.64	1,028.00	2,941.28	2,923.17	18.11	162.430		
2,000.00	1,980.83	2,878.54	2,767.82	7.41	16.07	38.97	-2,735.32	1,015.11	2,890.86	2,872.04	18.82	153.571		
2,100.00	2,076.33	2,958.09	2,843.84	7.95	16.57	39.51	-2,716.97	1,000.55	2,840.92	2,821.32	19.60	144.943		
2,200.00	2,171.82	3,043.88	2,925.86	8.50	17.09	40.10	-2,697.06	985.19	2,791.20	2,770.79	20.41	136.742		
2,300.00	2,267.32	3,126.03	3,004.33	9.07	17.61	40.70	-2,678.16	969.86	2,741.69	2,720.46	21.23	129.118		
2,400.00	2,262.81	3,251.79	3,123.96	9.64	18.41	41.71	-2,649.05	944.25	2,691.90	2,669.66	22.24	121.021		
2,500.00	2,458.30	3,339.29	3,206.91	10.22	18.99	42.45	-2,628.09	925.92	2,641.58	2,618.44	23.13	114.185		
2,600.00	2,553.80	3,424.22	3,287.40	10.81	19.55	43.19	-2,607.54	908.28	2,591.44	2,567.40	24.03	107.832		
2,700.00	2,649.29	3,486.43	3,346.41	11.41	19.95	43.75	-2,592.63	895.40	2,541.87	2,517.00	24.87	102.210		
2,800.00	2,744.79	3,581.03	3,436.26	12.01	20.57	44.62	-2,570.41	875.86	2,493.09	2,467.25	25.84	96.493		
2,900.00	2,840.28	3,676.33	3,526.60	12.61	21.19	45.53	-2,546.89	856.64	2,443.76	2,416.94	26.82	91.114		
3,000.00	2,935.77	3,766.16	3,611.63	13.22	21.79	46.42	-2,524.63	838.16	2,394.70	2,366.89	27.81	86.109		
3,100.00	3,031.27	3,833.99	3,675.75	13.83	22.24	47.12	-2,507.74	823.87	2,345.91	2,317.16	28.75	81.592		
3,200.00	3,126.76	3,885.37	3,724.54	14.44	22.57	47.67	-2,495.47	813.40	2,298.53	2,268.87	29.66	77.498		
3,300.00	3,222.26	3,964.45	3,799.80	15.06	23.08	48.53	-2,477.22	797.42	2,252.32	2,221.64	30.68	73.414		
3,400.00	3,317.75	4,044.43	3,875.80	15.68	23.60	49.44	-2,458.84	780.58	2,206.58	2,174.84	31.73	69.533		
3,500.00	3,413.25	4,126.54	3,953.84	16.30	24.13	50.42	-2,440.07	763.25	2,161.51	2,128.69	32.82	65.853		
3,600.00	3,508.74	4,211.82	4,034.87	16.92	24.69	51.46	-2,420.44	745.31	2,116.92	2,082.98	33.95	62.356		
3,700.00	3,604.23	4,291.21	4,110.32	17.54	25.20	52.46	-2,402.06	728.86	2,072.92	2,037.84	35.08	59.095		
3,800.00	3,699.73	4,361.77	4,177.59	18.17	25.65	53.36	-2,385.90	714.98	2,029.92	1,993.73	36.20	56.081		
3,900.00	3,795.22	4,437.17	4,249.57	18.79	26.12	54.35	-2,368.96	700.20	1,988.00	1,950.64	37.36	53.216		
4,000.00	3,890.72	4,532.05	4,339.97	19.42	26.72	55.67	-2,347.73	680.74	1,946.82	1,908.20	38.62	50.410		
4,100.00	3,986.21	4,612.43	4,416.46	20.05	27.24	56.82	-2,329.31	664.29	1,906.01	1,866.14	39.87	47.807		
4,200.00	4,081.70	4,704.64	4,504.14	20.67	27.84	58.20	-2,308.28	645.02	1,866.16	1,824.97	41.19	45.301		
4,300.00	4,177.20	4,836.55	4,628.87	21.30	28.72	60.30	-2,276.04	616.67	1,825.92	1,783.23	42.69	42.775		
4,400.00	4,272.69	4,895.70	4,684.66	21.93	29.12	61.29	-2,261.09	603.96	1,785.92	1,741.93	43.99	40.595		
4,500.00	4,368.19	4,968.90	4,754.08	22.56	29.60	62.51	-2,243.25	589.06	1,747.76	1,702.40	45.36	38.530		
4,600.00	4,463.68	5,066.47	4,846.59	23.19	30.25	64.18	-2,219.24	569.42	1,710.56	1,663.74	46.83	36.528		
4,700.00	4,559.17	5,170.62	4,944.75	23.83	30.95	66.08	-2,192.10	547.64	1,673.36	1,625.00	48.36	34.599		
4,800.00	4,654.67	5,251.32	5,020.60	24.46	31.51	67.62	-2,170.43	530.63	1,636.85	1,586.97	49.88	32.817		
4,900.00	4,750.16	5,320.79	5,085.89	25.09	31.99	68.99	-2,152.05	515.62	1,602.14	1,550.74	51.40	31.171		
5,000.00	4,845.66	5,388.58	5,149.77	25.72	32.46	70.35	-2,134.63	501.09	1,569.56	1,516.62	52.94	29.650		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 33-T1N-R68W - GRAEBER 31-33D - Wellbore #1 - Wellbore #1		Offset Site Error:		0.00 usft
Survey Program:		16-MWD											Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	5,476.44	5,232.62	26.36	33.06	72.17	-2,112.22	482.29	1,538.76	1,484.19	54.56	28.201					
5,200.00	5,036.65	5,554.39	5,306.06	26.99	33.59	73.84	-2,092.14	465.57	1,509.46	1,453.28	56.18	26.868					
5,300.00	5,132.14	5,632.46	5,379.85	27.63	34.11	75.52	-2,072.37	449.48	1,482.14	1,424.35	57.80	25.644					
5,400.00	5,227.63	5,709.91	5,453.20	28.26	34.63	77.22	-2,052.98	433.87	1,456.81	1,397.39	59.42	24.519					
5,500.00	5,323.13	5,786.65	5,525.60	28.90	35.15	78.98	-2,033.71	417.30	1,433.74	1,372.69	61.05	23.484					
5,600.00	5,418.62	5,874.63	5,608.49	29.53	35.75	81.05	-2,011.33	398.06	1,412.64	1,349.90	62.74	22.516					
5,700.00	5,514.12	5,949.41	5,679.16	30.17	36.25	82.82	-1,992.60	382.38	1,393.76	1,329.42	64.34	21.663					
5,800.00	5,609.61	6,016.02	5,742.35	30.80	36.69	84.39	-1,976.53	368.76	1,377.63	1,311.77	65.86	20.918					
5,900.00	5,705.10	6,090.74	5,813.45	31.44	37.17	86.17	-1,959.37	353.47	1,364.58	1,297.22	67.36	20.258					
6,000.00	5,800.60	6,170.05	5,889.29	32.08	37.66	88.03	-1,941.80	338.31	1,353.84	1,285.02	68.82	19.672					
6,100.00	5,896.09	6,238.90	5,955.26	32.71	38.08	89.64	-1,927.20	325.12	1,346.01	1,275.85	70.16	19.184					
6,200.00	5,991.59	6,342.72	6,055.26	33.35	38.69	92.03	-1,906.09	306.87	1,340.22	1,268.63	71.60	18.719					
6,300.00	6,087.08	6,429.77	6,139.56	33.99	39.17	93.97	-1,889.01	293.47	1,335.89	1,263.04	72.85	18.337					
6,400.00	6,182.57	6,508.91	6,216.38	34.62	39.59	95.71	-1,874.01	281.76	1,333.66	1,259.65	74.01	18.021					
6,438.10	6,218.95	6,536.88	6,243.56	34.87	39.74	96.33	-1,868.87	277.65	1,333.45	1,259.03	74.42	17.919					
6,499.99	6,278.06	6,580.75	6,286.29	35.26	39.96	97.27	-1,861.26	271.31	1,334.00	1,258.96	75.05	17.776					
6,505.95	6,283.75	6,585.00	6,290.44	35.30	39.98	97.36	-1,860.55	270.70	1,334.12	1,259.01	75.11	17.763					
6,600.00	6,374.00	6,657.51	6,361.36	35.88	40.34	98.89	-1,849.26	260.62	1,336.89	1,260.88	76.00	17.590					
6,700.00	6,470.87	6,746.06	6,448.31	36.44	40.75	100.57	-1,837.05	249.20	1,341.23	1,264.33	76.90	17.441					
6,800.00	6,568.53	6,853.78	6,554.30	36.96	41.23	102.41	-1,822.73	236.48	1,345.73	1,267.94	77.79	17.300					
6,900.00	6,666.89	6,959.12	6,658.33	37.43	41.68	103.95	-1,809.45	226.45	1,349.16	1,270.58	78.58	17.170					
7,000.00	6,765.82	7,043.25	6,741.53	37.85	42.01	105.04	-1,799.50	218.98	1,352.50	1,273.29	79.21	17.075					
7,100.00	6,865.19	7,126.06	6,823.56	38.22	42.33	105.97	-1,791.10	211.42	1,356.59	1,276.83	79.77	17.006					
7,200.00	6,964.89	7,218.18	6,915.10	38.55	42.66	106.76	-1,784.03	203.83	1,360.82	1,280.50	80.32	16.943					
7,300.00	7,064.80	7,315.11	7,011.67	38.83	42.97	107.32	-1,778.96	197.36	1,364.39	1,283.56	80.83	16.879					
7,369.20	7,134.00	7,377.85	7,074.27	39.00	43.15	-125.45	-1,776.88	193.84	1,366.48	1,285.33	81.14	16.841					
7,400.00	7,164.80	7,401.87	7,098.25	39.06	43.21	-125.39	-1,776.32	192.49	1,367.47	1,286.22	81.25	16.830					
7,469.20	7,234.00	7,457.00	7,153.28	39.22	43.36	-125.29	-1,775.53	189.20	1,370.26	1,288.77	81.50	16.814					
7,500.00	7,264.78	7,498.14	7,194.36	39.29	43.46	55.09	-1,775.25	186.90	1,371.08	1,289.39	81.69	16.784					
7,550.00	7,314.53	7,568.50	7,264.66	39.44	43.64	55.51	-1,775.05	184.16	1,369.81	1,287.78	82.03	16.699					
7,600.00	7,363.66	7,639.07	7,335.21	39.62	43.80	56.38	-1,774.59	182.58	1,365.35	1,282.98	82.37	16.576					
7,650.00	7,411.81	7,691.64	7,387.77	39.82	43.92	57.53	-1,774.10	181.94	1,358.08	1,275.43	82.65	16.432					
7,700.00	7,458.61	7,741.27	7,437.40	40.06	44.03	59.02	-1,773.74	181.54	1,348.53	1,265.60	82.93	16.261					
7,750.00	7,503.69	7,786.08	7,482.21	40.32	44.13	60.80	-1,773.51	181.29	1,336.95	1,253.75	83.20	16.070					
7,800.00	7,546.72	7,829.09	7,525.22	40.60	44.22	62.89	-1,773.36	181.10	1,323.62	1,240.15	83.47	15.858					
7,850.00	7,587.38	7,869.80	7,565.93	40.92	44.31	65.26	-1,773.28	180.97	1,308.80	1,225.07	83.72	15.632					
7,900.00	7,625.34	7,907.90	7,604.03	41.25	44.39	67.87	-1,773.27	180.88	1,292.78	1,208.81	83.97	15.396					
7,950.00	7,660.33	7,943.68	7,639.81	41.61	44.46	70.68	-1,773.31	180.83	1,275.90	1,191.71	84.19	15.155					
8,000.00	7,692.07	7,976.78	7,672.90	42.00	44.53	73.61	-1,773.37	180.84	1,258.48	1,174.10	84.38	14.914					
8,050.00	7,720.33	8,006.30	7,702.43	42.40	44.59	76.58	-1,773.44	180.88	1,240.90	1,156.37	84.53	14.680					
8,100.00	7,744.89	8,032.03	7,728.16	42.83	44.64	79.47	-1,773.52	180.96	1,223.55	1,138.92	84.63	14.457					
8,150.00	7,765.56	8,053.77	7,749.89	43.27	44.68	82.20	-1,773.60	181.04	1,206.81	1,122.14	84.67	14.253					
8,200.00	7,782.18	8,071.32	7,767.45	43.74	44.72	84.67	-1,773.67	181.12	1,191.05	1,106.41	84.64	14.071					
8,250.00	7,794.63	8,084.56	7,780.69	44.22	44.75	86.82	-1,773.72	181.20	1,176.62	1,092.08	84.54	13.918					
8,300.00	7,802.82	8,093.37	7,789.49	44.71	44.76	88.58	-1,773.76	181.25	1,163.81	1,079.46	84.35	13.798					
8,350.00	7,806.68	8,097.66	7,793.78	45.21	44.77	89.92	-1,773.78	181.28	1,152.89	1,068.82	84.07	13.714					
8,369.28	7,807.00	8,098.09	7,794.22	45.40	44.77	90.32	-1,773.78	181.28	1,149.22	1,065.29	83.94	13.692					
8,400.00	7,807.00	8,098.25	7,794.37	45.72	44.77	90.32	-1,773.79	181.28	1,144.03	1,060.33	83.70	13.668 SF					
8,500.00	7,807.00	8,098.75	7,794.88	46.77	44.77	90.35	-1,773.79	181.28	1,132.74	1,049.98	82.76	13.687					
8,578.53	7,807.00	8,099.15	7,795.27	47.62	44.77	90.37	-1,773.79	181.29	1,130.01	1,048.16	81.85	13.806 CC, ES					
8,600.00	7,807.00	8,099.26	7,795.38	47.86	44.78	90.37	-1,773.79	181.29	1,130.22	1,048.65	81.57	13.856					
8,700.00	7,807.00	8,099.77	7,795.89	48.99	44.78	90.40	-1,773.79	181.29	1,136.52	1,056.36	80.17	14.177					

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		Sec 33-T1N-R68W - GRAEBER 31-33D - Wellbore #1 - Wellbore #1											Offset Site Error:		0.00 usft
Survey Program:		16-MWD											Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,800.00	7,806.99	8,100.28	7,796.40	50.16	44.78	90.43	-1,773.80	181.29	1,151.51	1,072.89	78.62	14.646			
8,900.00	7,806.99	8,100.79	7,796.91	51.37	44.78	90.45	-1,773.80	181.30	1,174.85	1,097.84	77.01	15.256			
9,000.00	7,806.99	8,101.30	7,797.43	52.60	44.78	90.48	-1,773.80	181.30	1,206.05	1,130.65	75.41	15.994			
9,100.00	7,806.99	8,101.82	7,797.95	53.87	44.78	90.50	-1,773.80	181.30	1,244.53	1,170.66	73.87	16.848			
9,200.00	7,806.99	8,102.34	7,798.47	55.17	44.78	90.53	-1,773.81	181.31	1,289.63	1,217.18	72.45	17.801			
9,300.00	7,806.99	8,102.87	7,798.99	56.49	44.78	90.56	-1,773.81	181.31	1,340.69	1,269.51	71.17	18.837			
9,400.00	7,806.99	8,103.39	7,799.52	57.83	44.78	90.58	-1,773.81	181.31	1,397.04	1,326.99	70.06	19.941			
9,500.00	7,806.99	8,103.92	7,800.04	59.20	44.78	90.61	-1,773.81	181.32	1,458.09	1,388.99	69.10	21.101			
9,600.00	7,806.98	8,104.45	7,800.57	60.59	44.79	90.64	-1,773.82	181.32	1,523.26	1,454.96	68.29	22.304			
9,700.00	7,806.98	8,104.98	7,801.11	62.00	44.79	90.66	-1,773.82	181.33	1,592.04	1,524.42	67.62	23.543			
9,800.00	7,806.98	8,105.52	7,801.64	63.43	44.79	90.69	-1,773.82	181.33	1,664.00	1,596.92	67.08	24.808			
9,900.00	7,806.98	8,106.05	7,802.18	64.87	44.79	90.72	-1,773.82	181.33	1,738.73	1,672.10	66.63	26.094			
10,000.00	7,806.98	8,106.59	7,802.72	66.34	44.79	90.75	-1,773.83	181.34	1,815.89	1,749.61	66.28	27.398			
10,100.00	7,806.98	8,107.14	7,803.26	67.81	44.79	90.77	-1,773.83	181.34	1,895.19	1,829.19	66.00	28.715			
10,200.00	7,806.98	8,107.68	7,803.81	69.30	44.79	90.80	-1,773.83	181.34	1,976.37	1,910.58	65.79	30.043			
10,300.00	7,806.98	8,108.23	7,804.35	70.81	44.79	90.83	-1,773.83	181.35	2,059.21	1,993.58	65.62	31.379			
10,400.00	7,806.97	8,108.78	7,804.90	72.32	44.79	90.86	-1,773.84	181.35	2,143.50	2,078.00	65.51	32.722			
10,500.00	7,806.97	8,109.33	7,805.46	73.85	44.80	90.89	-1,773.84	181.36	2,229.10	2,163.68	65.43	34.071			
10,600.00	7,806.97	8,109.89	7,806.01	75.39	44.80	90.91	-1,773.84	181.36	2,315.85	2,250.48	65.38	35.424			
10,700.00	7,806.97	8,110.45	7,806.57	76.94	44.80	90.94	-1,773.85	181.36	2,403.64	2,338.29	65.35	36.781			
10,800.00	7,806.97	8,111.01	7,807.13	78.49	44.80	90.97	-1,773.85	181.37	2,492.34	2,426.99	65.35	38.141			
10,900.00	7,806.97	8,111.57	7,807.70	80.06	44.80	91.00	-1,773.85	181.37	2,581.87	2,516.51	65.36	39.504			
11,000.00	7,806.97	8,112.14	7,808.26	81.64	44.80	91.03	-1,773.85	181.37	2,672.14	2,606.75	65.38	40.868			
11,100.00	7,806.97	8,112.71	7,808.83	83.22	44.80	91.06	-1,773.86	181.38	2,763.08	2,697.65	65.42	42.234			
11,200.00	7,806.96	8,113.28	7,809.41	84.81	44.80	91.09	-1,773.86	181.38	2,854.62	2,789.15	65.47	43.601			
11,300.00	7,806.96	8,113.86	7,809.98	86.41	44.80	91.11	-1,773.86	181.39	2,946.72	2,881.19	65.53	44.968			
11,400.00	7,806.96	8,114.43	7,810.56	88.01	44.81	91.14	-1,773.87	181.39	3,039.32	2,973.72	65.59	46.337			
11,500.00	7,806.96	8,115.01	7,811.14	89.63	44.81	91.17	-1,773.87	181.40	3,132.37	3,066.70	65.66	47.705			
11,600.00	7,806.96	8,115.60	7,811.72	91.24	44.81	91.20	-1,773.87	181.40	3,225.83	3,160.10	65.74	49.073			
11,700.00	7,806.96	8,116.18	7,812.31	92.87	44.81	91.23	-1,773.87	181.40	3,319.68	3,253.87	65.81	50.441			
11,800.00	7,806.96	8,116.77	7,812.90	94.49	44.81	91.26	-1,773.88	181.41	3,413.88	3,347.98	65.89	51.809			
11,900.00	7,806.95	8,117.37	7,813.49	96.13	44.81	91.29	-1,773.88	181.41	3,508.39	3,442.42	65.98	53.176			
12,000.00	7,806.95	8,117.96	7,814.08	97.77	44.81	91.32	-1,773.88	181.42	3,603.21	3,537.14	66.06	54.542			
12,100.00	7,806.95	8,118.56	7,814.68	99.41	44.81	91.35	-1,773.89	181.42	3,698.29	3,632.14	66.15	55.907			
12,200.00	7,806.95	8,119.16	7,815.28	101.06	44.82	91.38	-1,773.89	181.43	3,793.63	3,727.39	66.24	57.272			
12,300.00	7,806.95	8,119.76	7,815.89	102.71	44.82	91.41	-1,773.89	181.43	3,889.21	3,822.88	66.33	58.635			
12,400.00	7,806.95	8,120.37	7,816.49	104.37	44.82	91.44	-1,773.90	181.43	3,985.00	3,918.58	66.42	59.996			
12,500.00	7,806.95	8,120.98	7,817.11	106.02	44.82	91.48	-1,773.90	181.44	4,080.99	4,014.48	66.51	61.356			
12,600.00	7,806.95	8,121.59	7,817.72	107.69	44.82	91.51	-1,773.90	181.44	4,177.17	4,110.56	66.61	62.715			
12,700.00	7,806.94	8,122.21	7,818.33	109.35	44.82	91.54	-1,773.91	181.45	4,273.53	4,206.83	66.70	64.072			
12,800.00	7,806.94	8,122.83	7,818.95	111.02	44.82	91.57	-1,773.91	181.45	4,370.04	4,303.25	66.79	65.427			
12,900.00	7,806.94	8,123.45	7,819.58	112.70	44.82	91.60	-1,773.91	181.46	4,466.72	4,399.83	66.89	66.780			
13,000.00	7,806.94	8,124.08	7,820.20	114.37	44.83	91.63	-1,773.92	181.46	4,563.53	4,496.55	66.98	68.131			
13,100.00	7,806.94	8,124.71	7,820.83	116.05	44.83	91.66	-1,773.92	181.47	4,660.48	4,593.41	67.08	69.481			
13,200.00	7,806.94	8,125.34	7,821.46	117.74	44.83	91.70	-1,773.92	181.47	4,757.56	4,690.39	67.17	70.828			
13,300.00	7,806.94	8,125.98	7,822.10	119.42	44.83	91.73	-1,773.93	181.48	4,854.75	4,787.49	67.27	72.173			
13,400.00	7,806.94	8,126.61	7,822.74	121.11	44.83	91.76	-1,773.93	181.48	4,952.06	4,884.70	67.36	73.515			
13,500.00	7,806.93	8,127.26	7,823.38	122.80	44.83	91.79	-1,773.93	181.49	5,049.47	4,982.02	67.46	74.856			
13,600.00	7,806.93	8,127.90	7,824.03	124.49	44.83	91.83	-1,773.94	181.49	5,146.98	5,079.43	67.55	76.194			
13,700.00	7,806.93	8,128.55	7,824.67	126.18	44.83	91.86	-1,773.94	181.50	5,244.59	5,176.94	67.65	77.529			
13,800.00	7,806.93	8,129.20	7,825.33	127.88	44.84	91.89	-1,773.94	181.50	5,342.28	5,274.54	67.74	78.862			
13,900.00	7,806.93	8,129.86	7,825.98	129.58	44.84	91.93	-1,773.95	181.51	5,440.06	5,372.22	67.84	80.192			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	8,130.52	7,826.64	131.28	44.84	91.96	-1,773.95	181.51	5,537.91	5,469.98	67.93	81.520		
14,100.00	7,806.93	8,131.18	7,827.30	132.98	44.84	91.99	-1,773.95	181.52	5,635.85	5,567.82	68.03	82.845		
14,200.00	7,806.93	8,131.85	7,827.97	134.68	44.84	92.03	-1,773.96	181.52	5,733.85	5,665.72	68.12	84.167		
14,300.00	7,806.92	8,132.51	7,828.64	136.39	44.84	92.06	-1,773.96	181.53	5,831.92	5,763.70	68.22	85.486		
14,400.00	7,806.92	8,133.19	7,829.31	138.10	44.84	92.09	-1,773.97	181.53	5,930.05	5,861.74	68.32	86.803		
14,500.00	7,806.92	8,133.86	7,829.99	139.81	44.85	92.13	-1,773.97	181.54	6,028.25	5,959.84	68.41	88.117		
14,600.00	7,806.92	8,134.54	7,830.67	141.52	44.85	92.16	-1,773.97	181.54	6,126.50	6,058.00	68.51	89.427		
14,700.00	7,806.92	8,135.23	7,831.35	143.23	44.85	92.20	-1,773.98	181.55	6,224.81	6,156.21	68.60	90.735		
14,800.00	7,806.92	8,135.92	7,832.04	144.94	44.85	92.23	-1,773.98	181.56	6,323.18	6,254.48	68.70	92.040		
14,900.00	7,806.92	8,136.61	7,832.73	146.66	44.85	92.27	-1,773.98	181.56	6,421.59	6,352.79	68.80	93.342		
15,000.00	7,806.92	8,137.30	7,833.43	148.37	44.85	92.30	-1,773.99	181.57	6,520.05	6,451.16	68.89	94.640		
15,100.00	7,806.91	8,138.00	7,834.12	150.09	44.85	92.34	-1,773.99	181.57	6,618.56	6,549.57	68.99	95.936		
15,200.00	7,806.91	8,138.70	7,834.83	151.81	44.85	92.37	-1,774.00	181.58	6,717.11	6,648.03	69.09	97.228		
15,300.00	7,806.91	8,139.41	7,835.53	153.53	44.86	92.41	-1,774.00	181.58	6,815.71	6,746.52	69.18	98.517		
15,400.00	7,806.91	8,140.12	7,836.24	155.25	44.86	92.45	-1,774.00	181.59	6,914.34	6,845.06	69.28	99.803		
15,500.00	7,806.91	8,140.83	7,836.96	156.97	44.86	92.48	-1,774.01	181.60	7,013.01	6,943.64	69.38	101.086		
15,600.00	7,806.91	8,141.55	7,837.67	158.70	44.86	92.52	-1,774.01	181.60	7,111.72	7,042.25	69.47	102.365		
15,700.00	7,806.91	8,142.27	7,838.40	160.42	44.86	92.55	-1,774.02	181.61	7,210.47	7,140.90	69.57	103.641		
15,800.00	7,806.91	8,143.00	7,839.12	162.15	44.86	92.59	-1,774.02	181.61	7,309.25	7,239.58	69.67	104.914		
15,900.00	7,806.90	8,143.73	7,839.85	163.88	44.87	92.63	-1,774.02	181.62	7,408.06	7,338.29	69.77	106.183		
16,000.00	7,806.90	8,144.46	7,840.58	165.60	44.87	92.67	-1,774.03	181.63	7,506.90	7,437.04	69.86	107.449		
16,100.00	7,806.90	8,145.20	7,841.32	167.33	44.87	92.70	-1,774.03	181.63	7,605.78	7,535.81	69.96	108.711		
16,200.00	7,806.90	8,145.94	7,842.06	169.06	44.87	92.74	-1,774.04	181.64	7,704.68	7,634.62	70.06	109.970		
16,300.00	7,806.90	8,146.69	7,842.81	170.79	44.87	92.78	-1,774.04	181.65	7,803.61	7,733.45	70.16	111.226		
16,400.00	7,806.90	8,147.44	7,843.56	172.52	44.87	92.82	-1,774.05	181.65	7,902.57	7,832.31	70.26	112.478		
16,500.00	7,806.90	8,148.19	7,844.31	174.26	44.87	92.85	-1,774.05	181.66	8,001.55	7,931.19	70.36	113.726		
16,600.00	7,806.89	8,148.95	7,845.07	175.99	44.88	92.89	-1,774.05	181.67	8,100.56	8,030.10	70.46	114.971		
16,700.00	7,806.89	8,149.71	7,845.84	177.72	44.88	92.93	-1,774.06	181.67	8,199.59	8,129.03	70.56	116.212		
16,800.00	7,806.89	8,150.48	7,846.60	179.46	44.88	92.97	-1,774.06	181.68	8,298.65	8,227.99	70.66	117.450		
16,900.00	7,806.89	8,151.25	7,847.37	181.19	44.88	93.01	-1,774.07	181.69	8,397.72	8,326.97	70.76	118.685		
17,000.00	7,806.89	8,152.02	7,848.14	182.93	44.88	93.05	-1,774.07	181.70	8,496.84	8,426.04	70.86	119.920		
17,100.00	7,806.89	8,152.79	7,848.91	184.67	44.88	93.09	-1,774.08	181.71	8,595.97	8,525.06	70.96	121.155		
17,200.00	7,806.89	8,153.56	7,849.68	186.40	44.88	93.13	-1,774.08	181.72	8,695.11	8,624.10	71.06	122.390		
17,300.00	7,806.89	8,154.33	7,850.45	188.14	44.88	93.17	-1,774.09	181.73	8,794.27	8,723.17	71.16	123.625		
17,400.00	7,806.88	8,155.10	7,851.22	189.88	44.88	93.21	-1,774.09	181.74	8,893.45	8,822.24	71.26	124.860		
17,500.00	7,806.88	5,489.00	5,244.44	191.62	33.14	18.15	-2,108.97	479.56	8,992.10	8,930.43	61.68	145.795		
17,600.00	7,806.88	5,460.97	5,218.06	193.36	32.95	17.85	-2,116.21	485.63	9,087.54	9,025.80	61.74	147.198		
17,700.00	7,806.88	5,447.08	5,204.97	195.10	32.85	17.71	-2,119.78	488.63	9,183.05	9,121.22	61.83	148.519		
17,800.00	7,806.88	5,433.30	5,191.98	196.84	32.76	17.57	-2,123.30	491.58	9,278.62	9,216.70	61.92	149.838		
17,900.00	7,806.88	5,419.65	5,179.10	198.58	32.67	17.43	-2,126.77	494.50	9,374.25	9,312.23	62.02	151.153		
18,000.00	7,806.88	18,000.00	5,117.55	200.33	118.88	16.78	-2,143.48	508.45	9,469.85	9,341.98	127.87	74.057		
18,027.46	7,807.00	18,027.46	5,111.01	200.80	119.06	16.70	-2,145.27	509.94	9,496.11	9,368.02	128.09	74.138		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MVWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	20.00	-20.00	0.00	0.04	154.71	-3,285.03	1,552.19	3,633.28					
100.00	100.00	80.00	80.00	0.13	0.14	154.71	-3,285.03	1,552.19	3,633.28	3,633.01	0.28	N/A		
200.00	200.00	180.00	180.00	0.49	0.32	154.71	-3,285.03	1,552.19	3,633.28	3,632.47	0.81	4,478.781		
300.00	300.00	280.00	280.00	0.85	0.50	154.71	-3,285.03	1,552.19	3,633.28	3,631.94	1.35	2,698.238		
400.00	400.00	380.00	380.00	1.21	0.67	154.71	-3,285.03	1,552.19	3,633.28	3,631.40	1.88	1,930.691		
500.00	500.00	480.00	480.00	1.57	0.85	154.71	-3,285.03	1,552.19	3,633.28	3,630.87	2.42	1,503.112		
600.00	600.00	580.00	580.00	1.93	1.03	154.71	-3,285.03	1,552.19	3,633.28	3,630.33	2.95	1,230.582		
700.00	700.00	680.00	680.00	2.29	1.20	154.71	-3,285.03	1,552.19	3,633.28	3,629.79	3.49	1,041.709		
800.00	800.00	780.00	780.00	2.64	1.38	154.71	-3,285.03	1,552.19	3,633.28	3,629.26	4.02	903.099		
900.00	900.00	880.00	880.00	3.00	1.56	154.71	-3,285.03	1,552.19	3,633.28	3,628.72	4.56	797.044		
1,000.00	1,000.00	980.00	980.00	3.36	1.73	154.71	-3,285.03	1,552.19	3,633.28	3,628.19	5.09	713.281		
1,100.00	1,099.98	1,079.98	1,079.98	3.71	1.91	27.73	-3,285.03	1,552.19	3,631.74	3,626.12	5.62	646.746		
1,200.00	1,199.84	1,179.84	1,179.84	4.04	2.09	27.81	-3,285.03	1,552.19	3,627.11	3,620.98	6.13	591.879		
1,300.00	1,299.45	1,279.45	1,279.45	4.39	2.26	27.95	-3,285.03	1,552.19	3,619.39	3,612.75	6.65	544.606		
1,400.00	1,398.70	1,283.45	1,283.44	4.74	2.42	28.05	-3,286.25	1,552.19	3,610.98	3,603.83	7.15	505.016		
1,500.00	1,497.47	1,329.71	1,329.67	5.12	2.59	28.22	-3,287.97	1,552.19	3,600.50	3,592.83	7.67	469.580		
1,600.00	1,595.62	1,375.83	1,375.72	5.51	2.76	28.41	-3,290.43	1,552.19	3,588.44	3,580.25	8.19	438.110		
1,700.00	1,693.06	1,450.00	1,449.68	5.94	3.03	28.72	-3,295.93	1,552.19	3,575.06	3,566.23	8.82	405.132		
1,800.00	1,789.64	1,481.23	1,480.79	6.39	3.16	28.95	-3,298.75	1,552.05	3,559.57	3,550.25	9.33	381.697		
1,863.26	1,850.25	1,532.35	1,531.66	6.70	3.38	29.22	-3,303.75	1,551.21	3,548.76	3,538.98	9.78	362.831		
1,900.00	1,885.34	1,561.82	1,560.94	6.89	3.50	29.33	-3,306.86	1,550.38	3,542.23	3,532.18	10.05	352.574		
2,000.00	1,980.83	1,641.41	1,639.92	7.41	3.85	29.63	-3,316.08	1,546.89	3,524.85	3,514.07	10.78	327.125		
2,100.00	2,076.33	1,720.06	1,717.71	7.95	4.20	29.97	-3,326.35	1,541.64	3,508.08	3,496.56	11.51	304.667		
2,200.00	2,171.82	1,797.65	1,794.17	8.50	4.55	30.34	-3,337.61	1,534.71	3,491.96	3,479.70	12.26	284.774		
2,300.00	2,267.32	1,874.10	1,869.16	9.07	4.89	30.73	-3,349.80	1,526.19	3,476.57	3,463.55	13.02	267.092		
2,400.00	2,362.81	1,949.33	1,942.57	9.64	5.24	31.16	-3,362.83	1,516.18	3,461.94	3,448.17	13.78	251.320		
2,500.00	2,458.30	2,639.79	1,953.36	10.22	9.17	30.88	-3,353.37	1,531.94	3,444.72	3,426.81	17.91	192.329		
2,600.00	2,553.80	2,551.47	2,036.35	10.81	8.57	31.56	-3,374.74	1,510.58	3,433.28	3,415.49	17.78	193.048		
2,700.00	2,649.29	2,463.14	2,119.35	11.41	7.96	32.24	-3,396.10	1,489.22	3,422.43	3,404.76	17.67	193.655		
2,800.00	2,744.79	2,374.82	2,202.35	12.01	7.37	32.93	-3,417.46	1,467.86	3,412.20	3,394.63	17.58	194.144		
2,900.00	2,840.28	2,307.51	2,285.35	12.61	6.92	33.62	-3,438.82	1,446.50	3,402.59	3,384.96	17.63	193.054		
3,000.00	2,935.77	2,395.83	2,368.34	13.22	7.51	34.31	-3,460.18	1,425.14	3,393.59	3,374.93	18.66	181.866		
3,100.00	3,031.27	2,484.15	2,451.34	13.83	8.11	35.00	-3,481.55	1,403.78	3,385.22	3,365.52	19.70	171.835		
3,200.00	3,126.76	2,572.48	2,534.34	14.44	8.71	35.70	-3,502.91	1,382.42	3,377.48	3,356.74	20.75	162.805		
3,300.00	3,222.26	2,660.80	2,617.34	15.06	9.31	36.39	-3,524.27	1,361.06	3,370.38	3,348.58	21.79	154.644		
3,400.00	3,317.75	2,749.13	2,700.33	15.68	9.92	37.10	-3,545.63	1,339.70	3,363.91	3,341.06	22.85	147.240		
3,500.00	3,413.25	2,837.45	2,783.33	16.30	10.53	37.80	-3,566.99	1,318.34	3,358.09	3,334.18	23.90	140.502		
3,600.00	3,508.74	2,925.77	2,866.33	16.92	11.14	38.50	-3,588.36	1,296.98	3,352.91	3,327.95	24.96	134.349		
3,700.00	3,604.23	3,014.10	2,949.32	17.54	11.76	39.21	-3,609.72	1,275.62	3,348.38	3,322.36	26.01	128.714		
3,800.00	3,699.73	3,102.42	3,032.32	18.17	12.37	39.92	-3,631.08	1,254.26	3,344.50	3,317.43	27.07	123.539		
3,900.00	3,795.22	3,190.75	3,115.32	18.79	12.99	40.63	-3,652.44	1,232.91	3,341.28	3,313.14	28.13	118.776		
4,000.00	3,890.72	3,279.07	3,198.32	19.42	13.60	41.34	-3,673.80	1,211.55	3,338.71	3,309.52	29.19	114.380		
4,100.00	3,986.21	3,367.39	3,281.31	20.05	14.22	42.05	-3,695.17	1,190.19	3,336.79	3,306.55	30.25	110.314		
4,200.00	4,081.70	3,455.72	3,364.31	20.67	14.84	42.76	-3,716.53	1,168.83	3,335.54	3,304.24	31.31	106.547		
4,300.00	4,177.20	3,544.04	3,447.31	21.30	15.45	43.47	-3,737.89	1,147.47	3,334.95	3,302.58	32.36	103.050		
4,340.19	4,215.57	3,579.53	3,480.66	21.56	15.70	43.76	-3,746.47	1,138.88	3,334.89	3,302.11	32.79	101.714		
4,400.00	4,272.69	3,632.36	3,530.31	21.93	16.07	44.18	-3,759.25	1,126.11	3,335.01	3,301.59	33.42	99.797		
4,500.00	4,368.19	3,720.69	3,613.30	22.56	16.69	44.89	-3,780.61	1,104.75	3,335.74	3,301.26	34.47	96.767		
4,600.00	4,463.68	3,809.01	3,696.30	23.19	17.31	45.60	-3,801.98	1,083.39	3,337.12	3,301.59	35.52	93.941		
4,700.00	4,559.17	3,897.34	3,779.30	23.83	17.93	46.31	-3,823.34	1,062.03	3,339.16	3,302.59	36.57	91.300		
4,800.00	4,654.67	3,985.66	3,862.30	24.46	18.55	47.02	-3,844.70	1,040.67	3,341.86	3,304.24	37.62	88.829		
4,900.00	4,750.16	4,073.98	3,945.29	25.09	19.17	47.73	-3,866.06	1,019.31	3,345.21	3,306.54	38.67	86.516		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,845.66	4,162.31	4,028.29	25.72	19.79	48.44	-3,887.42	997.95	3,349.22	3,309.51	39.71	84.346		
5,100.00	4,941.15	4,250.63	4,111.29	26.36	20.41	49.15	-3,908.79	976.59	3,353.87	3,313.13	40.75	82.309		
5,200.00	5,036.65	4,338.96	4,194.29	26.99	21.03	49.85	-3,930.15	955.23	3,359.18	3,317.39	41.78	80.396		
5,300.00	5,132.14	4,427.28	4,277.28	27.63	21.66	50.55	-3,951.51	933.87	3,365.13	3,322.31	42.82	78.596		
5,400.00	5,227.63	4,515.60	4,360.28	28.26	22.28	51.25	-3,972.87	912.52	3,371.72	3,327.88	43.84	76.902		
5,500.00	5,323.13	4,603.93	4,443.28	28.90	22.90	51.95	-3,994.23	891.16	3,378.95	3,334.08	44.87	75.305		
5,600.00	5,418.62	4,692.25	4,526.27	29.53	23.52	52.65	-4,015.60	869.80	3,386.81	3,340.92	45.89	73.800		
5,700.00	5,514.12	4,780.58	4,609.27	30.17	24.14	53.34	-4,036.96	848.44	3,395.31	3,348.40	46.91	72.380		
5,800.00	5,609.61	4,868.90	4,692.27	30.80	24.77	54.03	-4,058.32	827.08	3,404.43	3,356.50	47.92	71.039		
5,900.00	5,705.10	4,957.22	4,775.27	31.44	25.39	54.72	-4,079.68	805.72	3,414.16	3,365.23	48.93	69.772		
6,000.00	5,800.60	5,045.55	4,858.26	32.08	26.01	55.40	-4,101.04	784.36	3,424.52	3,374.58	49.94	68.575		
6,100.00	5,896.09	5,133.87	4,941.26	32.71	26.63	56.08	-4,122.41	763.00	3,435.48	3,384.54	50.94	67.442		
6,200.00	5,991.59	5,222.20	5,024.26	33.35	27.25	56.76	-4,143.77	741.64	3,447.04	3,395.10	51.94	66.369		
6,300.00	6,087.08	5,310.52	5,107.26	33.99	27.88	57.44	-4,165.13	720.28	3,459.20	3,406.27	52.93	65.354		
6,400.00	6,182.57	5,398.84	5,190.25	34.62	28.50	58.11	-4,186.49	698.92	3,471.95	3,418.03	53.92	64.391		
6,499.99	6,278.06	5,487.16	5,273.24	35.26	29.12	58.77	-4,207.85	677.57	3,485.29	3,430.38	54.90	63.479		
6,505.95	6,283.75	5,492.42	5,278.19	35.30	29.16	58.81	-4,209.12	676.29	3,486.10	3,431.14	54.96	63.426		
6,600.00	6,374.00	5,575.98	5,356.70	35.88	29.75	59.66	-4,229.33	656.09	3,499.98	3,444.11	55.87	62.644		
6,700.00	6,470.87	5,665.82	5,441.12	36.44	30.38	60.57	-4,251.06	634.36	3,516.91	3,460.11	56.80	61.917		
6,800.00	6,568.53	5,756.57	5,526.41	36.96	31.02	61.48	-4,273.01	612.41	3,535.96	3,478.27	57.69	61.291		
6,900.00	6,666.89	5,849.67	5,611.66	37.43	31.76	62.62	-4,304.84	590.59	3,556.79	3,498.02	58.77	60.522		
7,000.00	6,765.82	6,088.55	5,840.56	37.85	32.66	63.97	-4,348.81	566.62	3,577.25	3,517.11	60.14	59.482		
7,100.00	6,865.19	6,293.35	6,037.22	38.22	33.58	65.16	-4,389.22	546.22	3,596.59	3,535.12	61.47	58.508		
7,200.00	6,964.89	6,503.38	6,240.89	38.55	34.53	66.16	-4,425.46	529.98	3,614.52	3,551.77	62.75	57.599		
7,300.00	7,064.80	6,717.89	6,450.69	38.83	35.49	66.97	-4,457.01	512.44	3,630.83	3,566.86	63.97	56.756		
7,369.20	7,134.00	6,868.49	6,598.92	39.00	36.17	-165.59	-4,475.83	499.62	3,641.07	3,576.30	64.77	56.214		
7,400.00	7,164.80	6,935.98	6,665.56	39.06	36.48	-165.51	-4,483.37	492.09	3,645.27	3,580.16	65.12	55.982		
7,469.20	7,234.00	7,088.50	6,816.60	39.22	37.16	-165.34	-4,498.35	487.10	3,653.59	3,587.72	65.87	55.465		
7,500.00	7,264.78	7,156.83	6,884.44	39.29	37.47	15.02	-4,504.14	481.31	3,655.99	3,589.78	66.20	55.223		
7,550.00	7,314.53	7,268.12	6,995.11	39.44	37.97	15.16	-4,512.35	473.11	3,655.80	3,589.06	66.75	54.772		
7,600.00	7,363.66	7,378.66	7,105.26	39.62	38.47	15.46	-4,518.99	466.46	3,650.59	3,583.31	67.28	54.257		
7,650.00	7,411.81	7,487.15	7,213.51	39.82	38.96	15.92	-4,524.05	461.40	3,640.42	3,572.61	67.81	53.684		
7,700.00	7,458.61	7,592.32	7,318.56	40.06	39.44	16.58	-4,527.57	457.89	3,625.42	3,557.10	68.32	53.062		
7,750.00	7,503.69	7,692.99	7,419.18	40.32	39.89	17.44	-4,529.66	455.79	3,605.79	3,536.98	68.82	52.398		
7,800.00	7,546.72	7,788.08	7,514.26	40.60	40.32	18.57	-4,530.49	454.97	3,581.77	3,512.49	69.28	51.697		
7,850.00	7,587.38	7,876.65	7,602.83	40.92	40.72	20.03	-4,530.26	455.20	3,553.66	3,483.94	69.72	50.967		
7,900.00	7,625.34	7,957.90	7,684.07	41.25	41.08	21.89	-4,529.19	456.27	3,521.79	3,451.66	70.14	50.213		
7,950.00	7,660.33	8,031.16	7,757.29	41.61	41.42	24.29	-4,527.53	457.93	3,486.53	3,416.01	70.52	49.441		
8,000.00	7,692.07	8,095.94	7,822.01	42.00	41.71	27.41	-4,525.51	459.94	3,448.26	3,377.39	70.87	48.654		
8,050.00	7,720.33	8,151.86	7,877.84	42.40	41.96	31.52	-4,523.36	462.10	3,407.40	3,336.21	71.20	47.859		
8,100.00	7,744.89	8,198.70	7,924.59	42.83	42.17	37.00	-4,521.25	464.21	3,364.38	3,292.88	71.49	47.058		
8,150.00	7,765.56	8,150.00	7,238.57	43.27	41.95	29.64	-4,493.29	462.16	3,319.11	3,246.75	72.36	45.872		
8,200.00	7,782.18	8,200.00	7,260.36	43.74	42.18	34.16	-4,496.01	460.45	3,277.03	3,204.28	72.75	45.047		
8,250.00	7,794.63	8,250.00	7,278.26	44.22	42.40	40.11	-4,498.24	458.22	3,233.19	3,160.05	73.14	44.208		
8,300.00	7,802.82	8,300.00	7,292.13	44.71	42.63	47.96	-4,499.97	456.49	3,187.92	3,114.40	73.52	43.360		
8,350.00	7,806.68	8,300.00	7,292.13	45.21	41.00	84.11	-4,530.52	454.93	3,140.75	3,068.49	72.26	43.467		
8,369.28	7,807.00	8,060.82	7,787.00	45.40	41.00	90.00	-4,530.52	454.93	3,122.43	3,050.09	72.33	43.168		
8,400.00	7,807.00	8,060.82	7,787.00	45.72	41.00	90.00	-4,530.52	454.93	3,093.25	3,020.79	72.45	42.692		
8,500.00	7,807.00	8,060.81	7,787.00	46.77	41.00	90.00	-4,530.52	454.93	2,998.49	2,925.62	72.87	41.147		
8,600.00	7,807.00	8,060.81	7,787.00	47.86	41.00	90.00	-4,530.52	454.93	2,904.08	2,830.75	73.33	39.605		
8,700.00	7,807.00	8,060.81	7,787.00	48.99	41.00	90.00	-4,530.52	454.93	2,810.06	2,736.24	73.82	38.068		
8,800.00	7,806.99	8,060.81	7,786.99	50.16	41.00	90.00	-4,530.52	454.93	2,716.46	2,642.12	74.35	36.537		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	8,060.81	7,786.99	51.37	41.00	90.00	-4,530.52	354.93	2,623.34	2,548.42	74.93	35.013		
9,000.00	7,806.99	8,060.81	7,786.99	52.60	41.00	90.00	-4,530.52	354.93	2,530.75	2,455.19	75.56	33.495		
9,100.00	7,806.99	8,223.27	7,949.10	53.87	42.28	99.56	-4,520.04	365.42	2,430.39	2,354.03	76.36	31.826		
9,200.00	7,806.99	8,215.10	7,940.95	55.17	42.25	99.09	-4,520.45	365.01	2,339.14	2,262.06	77.09	30.345		
9,300.00	7,806.99	8,207.25	7,933.12	56.49	42.21	98.63	-4,520.84	364.62	2,248.62	2,170.74	77.88	28.873		
9,400.00	7,806.99	8,199.70	7,925.58	57.83	42.18	98.19	-4,521.20	364.25	2,158.92	2,080.17	78.75	27.414		
9,500.00	7,806.99	8,192.42	7,918.33	59.20	42.14	97.76	-4,521.55	363.91	2,070.15	1,990.43	79.72	25.968		
9,600.00	7,806.98	8,185.42	7,911.34	60.59	42.11	97.35	-4,521.87	363.58	1,982.43	1,901.64	80.78	24.540		
9,700.00	7,806.98	8,178.67	7,904.60	62.00	42.08	96.95	-4,522.18	363.27	1,895.90	1,813.94	81.97	23.131		
9,800.00	7,806.98	8,172.15	7,898.10	63.43	42.05	96.57	-4,522.48	362.98	1,810.75	1,727.48	83.27	21.745		
9,900.00	7,806.98	8,165.86	7,891.82	64.87	42.02	96.20	-4,522.75	362.70	1,727.18	1,642.45	84.72	20.386		
10,000.00	7,806.98	8,159.79	7,885.76	66.34	42.00	95.84	-4,523.02	362.44	1,645.42	1,559.09	86.34	19.058		
10,100.00	7,806.98	8,153.92	7,879.90	67.81	41.97	95.50	-4,523.27	362.19	1,565.77	1,477.64	88.12	17.768		
10,200.00	7,806.98	8,148.25	7,874.24	69.30	41.94	95.16	-4,523.51	361.95	1,488.56	1,398.45	90.11	16.519		
10,300.00	7,806.98	8,142.76	7,868.76	70.81	41.92	94.84	-4,523.73	361.72	1,414.18	1,321.88	92.31	15.320		
10,400.00	7,806.97	8,137.44	7,863.45	72.32	41.89	94.53	-4,523.95	361.51	1,343.13	1,248.40	94.73	14.178		
10,500.00	7,806.97	8,132.30	7,858.31	73.85	41.87	94.22	-4,524.15	361.30	1,275.94	1,178.56	97.39	13.102		
10,600.00	7,806.97	8,127.31	7,853.33	75.39	41.85	93.93	-4,524.35	361.11	1,213.27	1,113.00	100.27	12.100		
10,700.00	7,806.97	8,122.47	7,848.50	76.94	41.83	93.64	-4,524.54	360.92	1,155.85	1,052.50	103.35	11.184		
10,800.00	7,806.97	8,117.78	7,843.82	78.49	41.81	93.36	-4,524.72	360.74	1,104.49	997.93	106.56	10.365		
10,900.00	7,806.97	8,113.23	7,839.28	80.06	41.79	93.10	-4,524.89	360.57	1,060.09	950.28	109.81	9.654		
11,000.00	7,806.97	8,108.81	7,834.86	81.64	41.77	92.83	-4,525.05	360.41	1,023.55	910.60	112.95	9.062		
11,100.00	7,806.97	8,104.52	7,830.58	83.22	41.75	92.58	-4,525.21	360.25	995.72	879.93	115.79	8.599		
11,200.00	7,806.96	8,100.35	7,826.41	84.81	41.73	92.33	-4,525.36	360.10	977.37	859.23	118.14	8.273		
11,300.00	7,806.96	8,096.30	7,822.37	86.41	41.71	92.09	-4,525.50	359.96	969.03	849.22	119.81	8.088		
11,331.31	7,806.96	8,095.06	7,821.12	86.91	41.70	92.02	-4,525.54	359.91	968.53	848.36	120.17	8.060 CC, ES		
11,400.00	7,806.96	8,092.36	7,818.43	88.01	41.69	91.86	-4,525.64	359.82	970.96	850.29	120.66	8.047 SF		
11,500.00	7,806.96	8,088.53	7,814.60	89.63	41.67	91.64	-4,525.77	359.69	983.09	862.43	120.65	8.148		
11,600.00	7,806.96	8,084.80	7,810.88	91.24	41.66	91.41	-4,525.90	359.56	1,005.06	885.23	119.83	8.388		
11,700.00	7,806.96	8,081.16	7,807.25	92.87	41.64	91.20	-4,526.02	359.44	1,036.24	917.95	118.29	8.760		
11,800.00	7,806.96	8,077.63	7,803.72	94.49	41.62	90.99	-4,526.14	359.32	1,075.84	959.62	116.22	9.257		
11,900.00	7,806.95	8,074.18	7,800.27	96.13	41.61	90.79	-4,526.25	359.21	1,122.96	1,009.20	113.76	9.871		
12,000.00	7,806.95	8,060.77	7,786.95	97.77	41.00	90.00	-4,530.52	354.93	1,177.77	1,067.04	110.74	10.636		
12,100.00	7,806.95	8,060.77	7,786.95	99.41	41.00	90.00	-4,530.52	354.93	1,236.89	1,128.88	108.01	11.451		
12,200.00	7,806.95	8,060.77	7,786.95	101.06	41.00	90.00	-4,530.52	354.93	1,301.02	1,195.72	105.30	12.355		
12,300.00	7,806.95	8,060.77	7,786.95	102.71	41.00	90.00	-4,530.52	354.93	1,369.45	1,266.78	102.67	13.338		
12,400.00	7,806.95	8,060.76	7,786.95	104.37	41.00	90.00	-4,530.52	354.93	1,441.58	1,341.41	100.16	14.392		
12,500.00	7,806.95	8,060.76	7,786.95	106.02	41.00	90.00	-4,530.52	354.93	1,516.87	1,419.06	97.81	15.508		
12,600.00	7,806.95	8,060.76	7,786.95	107.69	41.00	90.00	-4,530.52	354.93	1,594.88	1,499.26	95.62	16.679		
12,700.00	7,806.94	8,060.76	7,786.94	109.35	41.00	90.00	-4,530.52	354.93	1,675.23	1,581.63	93.60	17.898		
12,800.00	7,806.94	8,060.76	7,786.94	111.02	41.00	90.00	-4,530.52	354.93	1,757.60	1,665.85	91.74	19.158		
12,900.00	7,806.94	8,060.76	7,786.94	112.70	41.00	90.00	-4,530.52	354.93	1,841.71	1,751.67	90.04	20.454		
13,000.00	7,806.94	8,060.76	7,786.94	114.37	41.00	90.00	-4,530.52	354.93	1,927.34	1,838.85	88.49	21.781		
13,100.00	7,806.94	8,060.76	7,786.94	116.05	41.00	90.00	-4,530.52	354.93	2,014.30	1,927.23	87.07	23.134		
13,200.00	7,806.94	8,060.75	7,786.94	117.74	41.00	90.00	-4,530.52	354.93	2,102.41	2,016.63	85.78	24.509		
13,300.00	7,806.94	8,060.75	7,786.94	119.42	41.00	90.00	-4,530.52	354.93	2,191.55	2,106.94	84.61	25.903		
13,400.00	7,806.94	8,060.75	7,786.94	121.11	41.00	90.00	-4,530.52	354.93	2,281.59	2,198.05	83.53	27.313		
13,500.00	7,806.93	8,060.75	7,786.93	122.80	41.00	90.00	-4,530.52	354.93	2,372.42	2,289.86	82.56	28.736		
13,600.00	7,806.93	8,060.75	7,786.93	124.49	41.00	90.00	-4,530.52	354.93	2,463.97	2,382.30	81.67	30.169		
13,700.00	7,806.93	8,060.75	7,786.93	126.18	41.00	90.00	-4,530.52	354.93	2,556.15	2,475.28	80.86	31.610		
13,800.00	7,806.93	8,060.75	7,786.93	127.88	41.00	90.00	-4,530.52	354.93	2,648.89	2,568.77	80.13	33.059		
13,900.00	7,806.93	8,060.74	7,786.93	129.58	41.00	90.00	-4,530.52	354.93	2,742.15	2,662.70	79.45	34.512		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MVWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	8,060.74	7,786.93	131.28	41.00	90.00	-4,530.52	354.93	2,835.87	2,757.03	78.84	35.969		
14,100.00	7,806.93	8,060.74	7,786.93	132.98	41.00	90.00	-4,530.52	354.93	2,930.00	2,851.72	78.28	37.429		
14,200.00	7,806.93	8,060.74	7,786.93	134.68	41.00	90.00	-4,530.52	354.93	3,024.51	2,946.74	77.77	38.891		
14,300.00	7,806.92	8,060.74	7,786.92	136.39	41.00	90.00	-4,530.52	354.93	3,119.36	3,042.06	77.30	40.353		
14,400.00	7,806.92	8,060.74	7,786.92	138.10	41.00	90.00	-4,530.52	354.93	3,214.52	3,137.65	76.87	41.816		
14,500.00	7,806.92	8,060.74	7,786.92	139.81	41.00	90.00	-4,530.52	354.93	3,309.97	3,233.48	76.48	43.278		
14,600.00	7,806.92	8,060.74	7,786.92	141.52	41.00	90.00	-4,530.52	354.93	3,405.68	3,329.55	76.12	44.738		
14,700.00	7,806.92	8,060.73	7,786.92	143.23	41.00	90.00	-4,530.52	354.93	3,501.63	3,425.83	75.80	46.197		
14,800.00	7,806.92	8,060.73	7,786.92	144.94	41.00	90.00	-4,530.52	354.93	3,597.80	3,522.30	75.50	47.654		
14,900.00	7,806.92	8,060.73	7,786.92	146.66	41.00	90.00	-4,530.52	354.93	3,694.17	3,618.94	75.22	49.109		
15,000.00	7,806.92	8,060.73	7,786.92	148.37	41.00	90.00	-4,530.52	354.93	3,790.73	3,715.76	74.97	50.561		
15,100.00	7,806.91	8,060.73	7,786.91	150.09	41.00	90.00	-4,530.52	354.93	3,887.46	3,812.72	74.75	52.010		
15,200.00	7,806.91	8,060.73	7,786.91	151.81	41.00	90.00	-4,530.52	354.93	3,984.36	3,909.82	74.54	53.455		
15,300.00	7,806.91	8,060.73	7,786.91	153.53	41.00	90.00	-4,530.52	354.93	4,081.41	4,007.06	74.35	54.898		
15,400.00	7,806.91	8,060.73	7,786.91	155.25	41.00	90.00	-4,530.52	354.93	4,178.59	4,104.42	74.17	56.337		
15,500.00	7,806.91	8,060.72	7,786.91	156.97	41.00	90.00	-4,530.52	354.93	4,275.91	4,201.89	74.01	57.772		
15,600.00	7,806.91	8,060.72	7,786.91	158.70	41.00	90.00	-4,530.52	354.93	4,373.34	4,299.47	73.87	59.203		
15,700.00	7,806.91	8,060.72	7,786.91	160.42	41.00	90.00	-4,530.52	354.93	4,470.89	4,397.15	73.74	60.631		
15,800.00	7,806.91	8,060.72	7,786.91	162.15	41.00	90.00	-4,530.52	354.93	4,568.55	4,494.92	73.62	62.054		
15,900.00	7,806.90	8,060.72	7,786.90	163.88	41.00	90.00	-4,530.52	354.93	4,666.30	4,592.79	73.52	63.474		
16,000.00	7,806.90	8,060.72	7,786.90	165.60	41.00	90.00	-4,530.52	354.93	4,764.15	4,690.73	73.42	64.889		
16,100.00	7,806.90	8,060.72	7,786.90	167.33	41.00	90.00	-4,530.52	354.93	4,862.08	4,788.75	73.33	66.300		
16,200.00	7,806.90	8,060.72	7,786.90	169.06	41.00	90.00	-4,530.52	354.93	4,960.10	4,886.84	73.26	67.707		
16,300.00	7,806.90	8,060.71	7,786.90	170.79	41.00	90.00	-4,530.52	354.93	5,058.20	4,985.01	73.19	69.110		
16,400.00	7,806.90	8,060.71	7,786.90	172.52	41.00	90.00	-4,530.52	354.93	5,156.37	5,083.24	73.13	70.508		
16,500.00	7,806.90	8,060.71	7,786.90	174.26	41.00	90.00	-4,530.52	354.93	5,254.60	5,181.52	73.08	71.902		
16,600.00	7,806.89	8,060.71	7,786.89	175.99	41.00	90.00	-4,530.52	354.93	5,352.91	5,279.87	73.04	73.292		
16,700.00	7,806.89	8,060.71	7,786.89	177.72	41.00	90.00	-4,530.52	354.93	5,451.27	5,378.27	73.00	74.677		
16,800.00	7,806.89	8,060.71	7,786.89	179.46	41.00	90.00	-4,530.52	354.93	5,549.69	5,476.73	72.97	76.058		
16,900.00	7,806.89	8,060.71	7,786.89	181.19	41.00	90.00	-4,530.52	354.93	5,648.17	5,575.23	72.94	77.435		
17,000.00	7,806.89	8,060.71	7,786.89	182.93	41.00	90.00	-4,530.52	354.93	5,746.70	5,673.78	72.92	78.807		
17,100.00	7,806.89	8,060.70	7,786.89	184.67	41.00	90.00	-4,530.52	354.93	5,845.29	5,772.38	72.91	80.175		
17,200.00	7,806.89	8,060.70	7,786.89	186.40	41.00	90.00	-4,530.52	354.93	5,943.91	5,871.02	72.90	81.538		
17,300.00	7,806.89	8,060.70	7,786.89	188.14	41.00	90.00	-4,530.52	354.93	6,042.59	5,969.69	72.89	82.898		
17,400.00	7,806.88	8,060.70	7,786.88	189.88	41.00	90.00	-4,530.52	354.93	6,141.30	6,068.41	72.89	84.252		
17,500.00	7,806.88	8,060.70	7,786.88	191.62	41.00	90.00	-4,530.52	354.93	6,240.06	6,167.16	72.90	85.602		
17,600.00	7,806.88	8,060.70	7,786.88	193.36	41.00	90.00	-4,530.52	354.93	6,338.86	6,265.95	72.90	86.948		
17,700.00	7,806.88	8,060.70	7,786.88	195.10	41.00	90.00	-4,530.52	354.93	6,437.69	6,364.77	72.92	88.290		
17,800.00	7,806.88	8,060.69	7,786.88	196.84	41.00	90.00	-4,530.52	354.93	6,536.56	6,463.63	72.93	89.627		
17,900.00	7,806.88	8,060.69	7,786.88	198.58	41.00	90.00	-4,530.52	354.93	6,635.46	6,562.51	72.95	90.959		
18,000.00	7,806.88	8,060.69	7,786.88	200.33	41.00	89.99	-4,530.52	354.93	6,734.40	6,661.43	72.97	92.287		
18,027.46	7,807.00	8,060.82	7,787.00	200.80	41.00	89.99	-4,530.52	354.93	6,761.54	6,688.56	72.98	92.653		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	147.25	-4,922.29	3,165.88	5,852.81					
100.00	100.00	40.00	40.00	0.13	0.47	147.25	-4,922.29	3,165.88	5,852.50	5,851.89	0.61	9,619.641		
200.00	200.00	140.00	140.00	0.49	2.10	147.25	-4,922.29	3,165.88	5,852.50	5,849.90	2.59	2,255.429		
300.00	300.00	240.00	240.00	0.85	4.31	147.25	-4,922.29	3,165.88	5,852.50	5,847.34	5.16	1,134.138		
400.00	400.00	340.00	340.00	1.21	6.37	147.25	-4,922.29	3,165.88	5,852.50	5,844.91	7.58	771.811		
500.00	500.00	440.00	440.00	1.57	8.41	147.25	-4,922.29	3,165.88	5,852.50	5,842.52	9.98	586.525		
600.00	600.00	540.00	540.00	1.93	10.44	147.25	-4,922.29	3,165.88	5,852.50	5,840.13	12.36	473.377		
700.00	700.00	640.00	640.00	2.29	12.46	147.25	-4,922.29	3,165.88	5,852.50	5,837.75	14.74	396.964		
800.00	800.00	740.00	740.00	2.64	14.48	147.25	-4,922.29	3,165.88	5,852.50	5,835.38	17.12	341.850		
900.00	900.00	840.00	840.00	3.00	16.49	147.25	-4,922.29	3,165.88	5,852.50	5,833.00	19.50	300.203		
1,000.00	1,000.00	940.00	940.00	3.36	18.51	147.25	-4,922.29	3,165.88	5,852.50	5,830.63	21.87	267.617		
1,100.00	1,099.98	1,039.98	1,039.98	3.71	20.52	20.26	-4,922.29	3,165.88	5,850.86	5,826.63	24.23	241.494		
1,200.00	1,199.84	1,139.84	1,139.84	4.04	22.53	20.32	-4,922.29	3,165.88	5,845.95	5,819.38	26.57	219.982		
1,300.00	1,299.45	1,239.45	1,239.45	4.39	24.54	20.40	-4,922.29	3,165.88	5,837.78	5,808.85	28.92	201.851		
1,400.00	1,398.70	1,338.70	1,338.70	4.74	26.54	20.52	-4,922.29	3,165.88	5,826.35	5,795.08	31.26	186.356		
1,500.00	1,497.47	1,437.47	1,437.47	5.12	28.52	20.68	-4,922.29	3,165.88	5,811.68	5,778.08	33.60	172.954		
1,600.00	1,595.62	1,535.62	1,535.62	5.51	30.50	20.88	-4,922.29	3,165.88	5,793.80	5,757.87	35.93	161.240		
1,700.00	1,693.06	1,633.06	1,633.06	5.94	32.46	21.11	-4,922.29	3,165.88	5,772.73	5,734.48	38.25	150.905		
1,800.00	1,789.64	1,729.64	1,729.64	6.39	34.40	21.39	-4,922.29	3,165.88	5,748.51	5,707.94	40.56	141.712		
1,863.26	1,850.25	1,809.75	1,790.25	6.70	36.02	21.58	-4,922.29	3,165.88	5,731.56	5,689.15	42.41	135.135		
1,900.00	1,885.34	1,825.34	1,825.34	6.89	36.33	21.62	-4,922.29	3,165.88	5,721.36	5,678.50	42.87	133.472		
2,000.00	1,980.83	1,920.83	1,920.83	7.41	38.25	21.73	-4,922.29	3,165.88	5,693.62	5,648.45	45.16	126.070		
2,100.00	2,076.33	2,016.33	2,016.33	7.95	40.17	21.84	-4,922.29	3,165.88	5,665.89	5,618.42	47.47	119.368		
2,200.00	2,171.82	2,111.82	2,111.82	8.50	42.09	21.95	-4,922.29	3,165.88	5,638.18	5,588.40	49.78	113.272		
2,300.00	2,267.32	2,207.32	2,207.32	9.07	44.01	22.07	-4,922.29	3,165.88	5,610.49	5,558.40	52.09	107.707		
2,400.00	2,362.81	2,302.81	2,302.81	9.64	45.93	22.18	-4,922.29	3,165.88	5,582.82	5,528.41	54.41	102.607		
2,500.00	2,458.30	2,401.70	2,398.30	10.22	47.92	22.29	-4,922.29	3,165.88	5,555.18	5,498.37	56.80	97.800		
2,600.00	2,553.80	2,506.20	2,493.80	10.81	50.03	22.41	-4,922.29	3,165.88	5,527.55	5,468.24	59.31	93.198		
2,700.00	2,649.29	2,589.29	2,589.29	11.41	51.70	22.53	-4,922.29	3,165.88	5,499.94	5,438.55	61.39	89.589		
2,800.00	2,744.79	2,684.79	2,684.79	12.01	53.62	22.65	-4,922.29	3,165.88	5,472.36	5,408.64	63.72	85.875		
2,900.00	2,840.28	2,780.28	2,780.28	12.61	55.54	22.76	-4,922.29	3,165.88	5,444.80	5,378.74	66.06	82.420		
3,000.00	2,935.77	2,875.77	2,875.77	13.22	57.46	22.89	-4,922.29	3,165.88	5,417.26	5,348.86	68.40	79.199		
3,100.00	3,031.27	2,971.27	2,971.27	13.83	59.38	23.01	-4,922.29	3,165.88	5,389.75	5,319.00	70.74	76.188		
3,200.00	3,126.76	3,066.76	3,066.76	14.44	61.30	23.13	-4,922.29	3,165.88	5,362.25	5,289.17	73.09	73.368		
3,300.00	3,222.26	3,162.26	3,162.26	15.06	63.22	23.25	-4,922.29	3,165.88	5,334.78	5,259.35	75.43	70.722		
3,400.00	3,317.75	3,257.75	3,257.75	15.68	65.14	23.38	-4,922.29	3,165.88	5,307.34	5,229.56	77.78	68.234		
3,500.00	3,413.25	3,353.25	3,353.25	16.30	67.06	23.51	-4,922.29	3,165.88	5,279.92	5,199.79	80.13	65.891		
3,600.00	3,508.74	3,448.74	3,448.74	16.92	68.98	23.64	-4,922.29	3,165.88	5,252.52	5,170.04	82.48	63.679		
3,700.00	3,604.23	3,544.23	3,544.23	17.54	70.90	23.77	-4,922.29	3,165.88	5,225.15	5,140.31	84.84	61.590		
3,800.00	3,699.73	3,639.73	3,639.73	18.17	72.82	23.90	-4,922.29	3,165.88	5,197.80	5,110.61	87.19	59.612		
3,900.00	3,795.22	3,735.22	3,735.22	18.79	74.75	24.03	-4,922.29	3,165.88	5,170.48	5,080.93	89.55	57.738		
4,000.00	3,890.72	3,830.72	3,830.72	19.42	76.67	24.16	-4,922.29	3,165.88	5,143.19	5,051.28	91.91	55.959		
4,100.00	3,986.21	3,926.21	3,926.21	20.05	78.59	24.30	-4,922.29	3,165.88	5,115.92	5,021.65	94.27	54.268		
4,200.00	4,081.70	4,021.70	4,021.70	20.67	80.51	24.43	-4,922.29	3,165.88	5,088.68	4,992.04	96.63	52.659		
4,300.00	4,177.20	4,117.20	4,117.20	21.30	82.43	24.57	-4,922.29	3,165.88	5,061.46	4,962.46	99.00	51.127		
4,400.00	4,272.69	4,212.69	4,212.69	21.93	84.35	24.71	-4,922.29	3,165.88	5,034.28	4,932.91	101.36	49.665		
4,500.00	4,368.19	4,308.19	4,308.19	22.56	86.27	24.85	-4,922.29	3,165.88	5,007.12	4,903.39	103.73	48.270		
4,600.00	4,463.68	4,403.68	4,403.68	23.19	88.19	24.99	-4,922.29	3,165.88	4,979.99	4,873.89	106.10	46.936		
4,700.00	4,559.17	4,500.83	4,499.17	23.83	90.14	25.14	-4,922.29	3,165.88	4,952.89	4,844.39	108.51	45.647		
4,800.00	4,654.67	4,605.33	4,594.67	24.46	92.24	25.28	-4,922.29	3,165.88	4,925.82	4,814.76	111.06	44.353		
4,900.00	4,750.16	4,709.84	4,690.16	25.09	94.35	25.43	-4,922.29	3,165.88	4,898.78	4,785.17	113.61	43.118		
5,000.00	4,845.66	4,785.66	4,785.66	25.72	95.87	25.58	-4,922.29	3,165.88	4,871.77	4,756.18	115.59	42.146		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,881.15	4,881.15	26.36	97.79	25.73	-4,922.29	3,165.88	4,844.80	4,726.83	117.97	41.068		
5,200.00	5,036.65	4,976.65	4,976.65	26.99	99.71	25.88	-4,922.29	3,165.88	4,817.85	4,697.50	120.35	40.032		
5,300.00	5,132.14	5,072.14	5,072.14	27.63	101.63	26.03	-4,922.29	3,165.88	4,790.94	4,668.21	122.73	39.036		
5,400.00	5,227.63	5,167.63	5,167.63	28.26	103.55	26.19	-4,922.29	3,165.88	4,764.06	4,638.94	125.11	38.078		
5,500.00	5,323.13	5,263.13	5,263.13	28.90	105.47	26.35	-4,922.29	3,165.88	4,737.21	4,609.71	127.50	37.156		
5,600.00	5,418.62	5,358.62	5,358.62	29.53	107.39	26.51	-4,922.29	3,165.88	4,710.40	4,580.52	129.88	36.267		
5,700.00	5,514.12	5,454.12	5,454.12	30.17	109.31	26.67	-4,922.29	3,165.88	4,683.62	4,551.35	132.27	35.410		
5,800.00	5,609.61	5,549.61	5,549.61	30.80	111.23	26.83	-4,922.29	3,165.88	4,656.87	4,522.22	134.66	34.583		
5,900.00	5,705.10	5,645.10	5,645.10	31.44	113.15	26.99	-4,922.29	3,165.88	4,630.17	4,493.12	137.05	33.785		
6,000.00	5,800.60	5,740.60	5,740.60	32.08	115.08	27.16	-4,922.29	3,165.88	4,603.50	4,464.06	139.44	33.014		
6,100.00	5,896.09	5,836.09	5,836.09	32.71	117.00	27.33	-4,922.29	3,165.88	4,576.86	4,435.03	141.83	32.269		
6,200.00	5,991.59	5,931.59	5,931.59	33.35	118.92	27.50	-4,922.29	3,165.88	4,550.26	4,406.03	144.23	31.549		
6,300.00	6,087.08	6,027.08	6,027.08	33.99	120.84	27.67	-4,922.29	3,165.88	4,523.71	4,377.08	146.63	30.852		
6,400.00	6,182.57	6,122.57	6,122.57	34.62	122.76	27.84	-4,922.29	3,165.88	4,497.19	4,348.16	149.03	30.177		
6,499.99	6,278.06	6,218.06	6,218.06	35.26	124.68	28.02	-4,922.29	3,165.88	4,470.71	4,319.28	151.43	29.524		
6,505.95	6,283.75	6,223.75	6,223.75	35.30	124.79	28.03	-4,922.29	3,165.88	4,469.14	4,317.56	151.57	29.485		
6,600.00	6,374.00	6,314.00	6,314.00	35.88	126.61	27.96	-4,922.29	3,165.88	4,445.59	4,291.75	153.83	28.899		
6,700.00	6,470.87	6,410.87	6,410.87	36.44	128.55	27.90	-4,922.29	3,165.88	4,423.49	4,267.25	156.23	28.314		
6,800.00	6,568.53	6,508.53	6,508.53	36.96	130.52	27.84	-4,922.29	3,165.88	4,404.43	4,245.80	158.63	27.766		
6,900.00	6,666.89	6,606.89	6,606.89	37.43	132.50	27.80	-4,922.29	3,165.88	4,388.44	4,227.42	161.02	27.255		
7,000.00	6,765.82	6,705.82	6,705.82	37.85	134.49	27.77	-4,922.29	3,165.88	4,375.51	4,212.11	163.39	26.779		
7,100.00	6,865.19	6,805.19	6,805.19	38.22	136.48	27.74	-4,922.29	3,165.88	4,365.65	4,199.90	165.76	26.338		
7,200.00	6,964.89	6,904.89	6,904.89	38.55	138.49	27.73	-4,922.29	3,165.88	4,358.88	4,190.78	168.10	25.930		
7,300.00	7,064.80	7,004.80	7,004.80	38.83	140.50	27.72	-4,922.29	3,165.88	4,355.20	4,184.77	170.43	25.555		
7,369.20	7,134.00	7,074.00	7,074.00	39.00	141.89	154.72	-4,922.29	3,165.88	4,354.46	4,182.44	172.02	25.314		
7,400.00	7,164.80	7,104.80	7,104.80	39.06	142.51	154.72	-4,922.29	3,165.88	4,354.46	4,181.74	172.72	25.210		
7,469.20	7,234.00	7,174.00	7,174.00	39.22	143.90	154.72	-4,922.29	3,165.88	4,354.46	4,180.15	174.31	24.981		
7,500.00	7,264.78	7,204.78	7,204.78	39.29	144.52	-24.97	-4,922.29	3,165.88	4,353.71	4,178.70	175.01	24.876		
7,550.00	7,314.53	7,254.53	7,254.53	39.44	145.52	-25.18	-4,922.29	3,165.88	4,349.30	4,173.16	176.15	24.691		
7,600.00	7,363.66	7,303.66	7,303.66	39.62	146.51	-25.60	-4,922.29	3,165.88	4,340.99	4,163.72	177.27	24.489		
7,650.00	7,411.81	7,351.81	7,351.81	39.82	147.48	-26.22	-4,922.29	3,165.88	4,328.83	4,150.47	178.35	24.271		
7,700.00	7,458.61	7,401.39	7,398.61	40.06	148.47	-27.08	-4,922.29	3,165.88	4,312.92	4,133.46	179.46	24.033		
7,750.00	7,503.69	7,443.69	7,443.69	40.32	149.32	-28.19	-4,922.29	3,165.88	4,293.40	4,113.00	180.41	23.799		
7,800.00	7,546.72	7,486.72	7,486.72	40.60	150.19	-29.60	-4,922.29	3,165.88	4,270.43	4,089.08	181.35	23.548		
7,850.00	7,587.38	7,527.38	7,527.38	40.92	151.01	-31.36	-4,922.29	3,165.88	4,244.19	4,061.96	182.23	23.290		
7,900.00	7,625.34	7,565.34	7,565.34	41.25	151.77	-33.52	-4,922.29	3,165.88	4,214.90	4,031.86	183.04	23.027		
7,950.00	7,660.33	7,600.33	7,600.33	41.61	152.47	-36.17	-4,922.29	3,165.88	4,182.80	3,999.02	183.78	22.760		
8,000.00	7,692.07	7,632.07	7,632.07	42.00	153.11	-39.40	-4,922.29	3,165.88	4,148.14	3,963.71	184.42	22.493		
8,050.00	7,720.33	7,660.33	7,660.33	42.40	153.68	-43.34	-4,922.29	3,165.88	4,111.20	3,926.22	184.98	22.225		
8,100.00	7,744.89	7,684.89	7,684.89	42.83	154.18	-48.12	-4,922.29	3,165.88	4,072.29	3,886.85	185.44	21.960		
8,150.00	7,765.56	7,705.56	7,705.56	43.27	154.59	-53.86	-4,922.29	3,165.88	4,031.72	3,845.91	185.81	21.698		
8,200.00	7,782.18	7,722.18	7,722.18	43.74	154.93	-60.67	-4,922.29	3,165.88	3,989.81	3,803.73	186.08	21.442		
8,250.00	7,794.63	7,734.63	7,734.63	44.22	155.18	-68.53	-4,922.29	3,165.88	3,946.89	3,760.65	186.25	21.192		
8,300.00	7,802.82	7,742.82	7,742.82	44.71	155.34	-77.25	-4,922.29	3,165.88	3,903.31	3,716.99	186.31	20.950		
8,350.00	7,806.68	7,746.68	7,746.68	45.21	155.42	-86.44	-4,922.29	3,165.88	3,859.40	3,673.11	186.28	20.718		
8,369.28	7,807.00	7,747.00	7,747.00	45.40	155.42	-90.00	-4,922.29	3,165.88	3,842.45	3,656.21	186.25	20.631		
8,400.00	7,807.00	7,747.00	7,747.00	45.72	155.42	-90.00	-4,922.29	3,165.88	3,815.49	3,629.32	186.18	20.494		
8,500.00	7,807.00	7,747.00	7,747.00	46.77	155.42	-90.00	-4,922.29	3,165.88	3,728.14	3,542.16	185.98	20.046		
8,600.00	7,807.00	7,747.00	7,747.00	47.86	155.42	-90.00	-4,922.29	3,165.88	3,641.43	3,455.60	185.83	19.596		
8,700.00	7,807.00	7,747.00	7,747.00	48.99	155.42	-90.00	-4,922.29	3,165.88	3,555.42	3,369.69	185.74	19.142		
8,800.00	7,806.99	7,746.99	7,746.99	50.16	155.42	-90.00	-4,922.29	3,165.88	3,470.16	3,284.45	185.71	18.686		
8,900.00	7,806.99	7,746.99	7,746.99	51.37	155.42	-90.00	-4,922.29	3,165.88	3,385.71	3,199.94	185.77	18.225		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,746.99	7,746.99	52.60	155.42	-90.00	-4,922.29	3,165.88	3,302.13	3,116.22	185.91	17.762		
9,100.00	7,806.99	7,746.99	7,746.99	53.87	155.42	-90.00	-4,922.29	3,165.88	3,219.48	3,033.32	186.16	17.294		
9,200.00	7,806.99	7,746.99	7,746.99	55.17	155.42	-90.00	-4,922.29	3,165.88	3,137.85	2,951.32	186.53	16.822		
9,300.00	7,806.99	7,746.99	7,746.99	56.49	155.42	-90.00	-4,922.29	3,165.88	3,057.30	2,870.28	187.02	16.347		
9,400.00	7,806.99	7,746.99	7,746.99	57.83	155.42	-90.00	-4,922.29	3,165.88	2,977.94	2,790.28	187.66	15.869		
9,500.00	7,806.99	7,746.99	7,746.99	59.20	155.42	-90.00	-4,922.29	3,165.88	2,899.85	2,711.40	188.45	15.388		
9,600.00	7,806.98	7,746.98	7,746.98	60.59	155.42	-90.00	-4,922.29	3,165.88	2,823.15	2,633.74	189.41	14.905		
9,700.00	7,806.98	7,746.98	7,746.98	62.00	155.42	-90.00	-4,922.29	3,165.88	2,747.94	2,557.40	190.54	14.422		
9,800.00	7,806.98	7,746.98	7,746.98	63.43	155.42	-90.00	-4,922.29	3,165.88	2,674.36	2,482.50	191.85	13.940		
9,900.00	7,806.98	7,746.98	7,746.98	64.87	155.42	-90.00	-4,922.29	3,165.88	2,602.54	2,409.18	193.36	13.460		
10,000.00	7,806.98	7,746.98	7,746.98	66.34	155.42	-90.00	-4,922.29	3,165.88	2,532.63	2,337.57	195.06	12.984		
10,100.00	7,806.98	7,746.98	7,746.98	67.81	155.42	-90.00	-4,922.29	3,165.88	2,464.80	2,267.83	196.97	12.514		
10,200.00	7,806.98	7,746.98	7,746.98	69.30	155.42	-90.00	-4,922.29	3,165.88	2,399.22	2,200.14	199.07	12.052		
10,300.00	7,806.98	7,746.98	7,746.98	70.81	155.42	-90.00	-4,922.29	3,165.88	2,336.08	2,134.70	201.38	11.601		
10,400.00	7,806.97	7,746.97	7,746.97	72.32	155.42	-90.00	-4,922.29	3,165.88	2,275.58	2,071.71	203.87	11.162		
10,500.00	7,806.97	7,746.97	7,746.97	73.85	155.42	-90.00	-4,922.29	3,165.88	2,217.95	2,011.39	206.56	10.738		
10,600.00	7,806.97	7,746.97	7,746.97	75.39	155.42	-90.00	-4,922.29	3,165.88	2,163.40	1,953.98	209.42	10.331		
10,700.00	7,806.97	7,746.97	7,746.97	76.94	155.42	-90.00	-4,922.29	3,165.88	2,112.18	1,899.74	212.44	9.942		
10,800.00	7,806.97	7,746.97	7,746.97	78.49	155.42	-90.00	-4,922.29	3,165.88	2,064.54	1,848.94	215.60	9.576		
10,900.00	7,806.97	7,746.97	7,746.97	80.06	155.42	-90.00	-4,922.29	3,165.88	2,020.73	1,801.84	218.89	9.232		
11,000.00	7,806.97	7,746.97	7,746.97	81.64	155.42	-90.00	-4,922.29	3,165.88	1,981.00	1,758.74	222.26	8.913		
11,100.00	7,806.97	7,746.97	7,746.97	83.22	155.42	-90.00	-4,922.29	3,165.88	1,945.60	1,719.91	225.69	8.621		
11,200.00	7,806.96	7,746.96	7,746.96	84.81	155.42	-90.00	-4,922.29	3,165.88	1,914.78	1,685.63	229.15	8.356		
11,300.00	7,806.96	7,746.96	7,746.96	86.41	155.42	-90.00	-4,922.29	3,165.88	1,888.76	1,656.17	232.59	8.121		
11,400.00	7,806.96	7,746.96	7,746.96	88.01	155.42	-90.00	-4,922.29	3,165.88	1,867.73	1,631.76	235.97	7.915		
11,500.00	7,806.96	7,746.96	7,746.96	89.63	155.42	-90.00	-4,922.29	3,165.88	1,851.87	1,612.62	239.25	7.740		
11,600.00	7,806.96	7,746.96	7,746.96	91.24	155.42	-90.00	-4,922.29	3,165.88	1,841.32	1,598.93	242.39	7.597		
11,700.00	7,806.96	7,746.96	7,746.96	92.87	155.42	-90.00	-4,922.29	3,165.88	1,836.15	1,590.81	245.34	7.484		
11,744.93	7,806.96	7,746.96	7,746.96	93.60	155.42	-90.00	-4,922.29	3,165.88	1,835.60	1,589.00	246.60	7.444 CC		
11,800.00	7,806.96	7,746.96	7,746.96	94.49	155.42	-90.00	-4,922.29	3,165.88	1,836.43	1,588.35	248.08	7.402 ES		
11,900.00	7,806.95	7,746.95	7,746.95	96.13	155.42	-90.00	-4,922.29	3,165.88	1,842.14	1,591.56	250.58	7.351		
12,000.00	7,806.95	7,746.95	7,746.95	97.77	155.42	-90.00	-4,922.29	3,165.88	1,853.24	1,600.42	252.82	7.330 SF		
12,100.00	7,806.95	7,746.95	7,746.95	99.41	155.42	-90.00	-4,922.29	3,165.88	1,869.63	1,614.85	254.78	7.338		
12,200.00	7,806.95	7,746.95	7,746.95	101.06	155.42	-90.00	-4,922.29	3,165.88	1,891.17	1,634.71	256.46	7.374		
12,300.00	7,806.95	7,746.95	7,746.95	102.71	155.42	-90.00	-4,922.29	3,165.88	1,917.69	1,659.83	257.87	7.437		
12,400.00	7,806.95	7,746.95	7,746.95	104.37	155.42	-90.00	-4,922.29	3,165.88	1,948.99	1,689.99	259.00	7.525		
12,500.00	7,806.95	7,746.95	7,746.95	106.02	155.42	-90.00	-4,922.29	3,165.88	1,984.84	1,724.95	259.89	7.637		
12,600.00	7,806.95	7,746.95	7,746.95	107.69	155.42	-90.00	-4,922.29	3,165.88	2,024.99	1,764.45	260.54	7.772		
12,700.00	7,806.94	7,746.94	7,746.94	109.35	155.42	-90.00	-4,922.29	3,165.88	2,069.20	1,808.22	260.98	7.929		
12,800.00	7,806.94	7,746.94	7,746.94	111.02	155.42	-90.00	-4,922.29	3,165.88	2,117.22	1,855.99	261.23	8.105		
12,900.00	7,806.94	7,746.94	7,746.94	112.70	155.42	-90.00	-4,922.29	3,165.88	2,168.79	1,907.48	261.31	8.300		
13,000.00	7,806.94	7,746.94	7,746.94	114.37	155.42	-90.00	-4,922.29	3,165.88	2,223.66	1,962.42	261.24	8.512		
13,100.00	7,806.94	7,746.94	7,746.94	116.05	155.42	-90.00	-4,922.29	3,165.88	2,281.59	2,020.54	261.05	8.740		
13,200.00	7,806.94	7,746.94	7,746.94	117.74	155.42	-90.00	-4,922.29	3,165.88	2,342.37	2,081.61	260.75	8.983		
13,300.00	7,806.94	7,746.94	7,746.94	119.42	155.42	-90.00	-4,922.29	3,165.88	2,405.76	2,145.39	260.37	9.240		
13,400.00	7,806.94	7,746.94	7,746.94	121.11	155.42	-90.00	-4,922.29	3,165.88	2,471.58	2,211.67	259.91	9.509		
13,500.00	7,806.93	7,746.93	7,746.93	122.80	155.42	-90.00	-4,922.29	3,165.88	2,539.63	2,280.23	259.40	9.790		
13,600.00	7,806.93	7,746.93	7,746.93	124.49	155.42	-90.00	-4,922.29	3,165.88	2,609.74	2,350.90	258.84	10.082		
13,700.00	7,806.93	7,746.93	7,746.93	126.18	155.42	-90.00	-4,922.29	3,165.88	2,681.75	2,423.50	258.25	10.384		
13,800.00	7,806.93	7,746.93	7,746.93	127.88	155.42	-90.00	-4,922.29	3,165.88	2,755.50	2,497.87	257.63	10.696		
13,900.00	7,806.93	7,746.93	7,746.93	129.58	155.42	-90.00	-4,922.29	3,165.88	2,830.86	2,573.87	256.99	11.015		
14,000.00	7,806.93	7,746.93	7,746.93	131.28	155.42	-90.00	-4,922.29	3,165.88	2,907.71	2,651.37	256.34	11.343		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,746.93	7,746.93	132.98	155.42	-90.00	-4,922.29	3,165.88	2,985.94	2,730.25	255.69	11.678	
14,200.00	7,806.93	7,746.93	7,746.93	134.68	155.42	-90.00	-4,922.29	3,165.88	3,065.42	2,810.39	255.03	12.020	
14,300.00	7,806.92	7,746.92	7,746.92	136.39	155.42	-90.00	-4,922.29	3,165.88	3,146.08	2,891.70	254.38	12.368	
14,400.00	7,806.92	7,746.92	7,746.92	138.10	155.42	-90.00	-4,922.29	3,165.88	3,227.83	2,974.09	253.73	12.721	
14,500.00	7,806.92	7,746.92	7,746.92	139.81	155.42	-90.00	-4,922.29	3,165.88	3,310.57	3,057.48	253.09	13.080	
14,600.00	7,806.92	7,746.92	7,746.92	141.52	155.42	-90.00	-4,922.29	3,165.88	3,394.24	3,141.78	252.46	13.445	
14,700.00	7,806.92	7,746.92	7,746.92	143.23	155.42	-90.00	-4,922.29	3,165.88	3,478.78	3,226.94	251.84	13.813	
14,800.00	7,806.92	7,746.92	7,746.92	144.94	155.42	-90.00	-4,922.29	3,165.88	3,564.12	3,312.88	251.24	14.186	
14,900.00	7,806.92	7,746.92	7,746.92	146.66	155.42	-90.00	-4,922.29	3,165.88	3,650.20	3,399.55	250.64	14.563	
15,000.00	7,806.92	7,746.92	7,746.92	148.37	155.42	-90.00	-4,922.29	3,165.88	3,736.97	3,486.91	250.07	14.944	
15,100.00	7,806.91	7,746.91	7,746.91	150.09	155.42	-90.00	-4,922.29	3,165.88	3,824.39	3,574.89	249.50	15.328	
15,200.00	7,806.91	7,746.91	7,746.91	151.81	155.42	-90.00	-4,922.29	3,165.88	3,912.41	3,663.46	248.95	15.716	
15,300.00	7,806.91	7,746.91	7,746.91	153.53	155.42	-90.00	-4,922.29	3,165.88	4,001.00	3,752.58	248.42	16.106	
15,400.00	7,806.91	7,746.91	7,746.91	155.25	155.42	-90.00	-4,922.29	3,165.88	4,090.11	3,842.21	247.90	16.499	
15,500.00	7,806.91	7,746.91	7,746.91	156.97	155.42	-90.00	-4,922.29	3,165.88	4,179.72	3,932.32	247.39	16.895	
15,600.00	7,806.91	7,746.91	7,746.91	158.70	155.42	-90.00	-4,922.29	3,165.88	4,269.78	4,022.88	246.90	17.294	
15,700.00	7,806.91	7,746.91	7,746.91	160.42	155.42	-90.00	-4,922.29	3,165.88	4,360.28	4,113.86	246.42	17.694	
15,800.00	7,806.91	7,746.91	7,746.91	162.15	155.42	-90.00	-4,922.29	3,165.88	4,451.19	4,205.22	245.96	18.097	
15,900.00	7,806.90	7,746.90	7,746.90	163.88	155.42	-90.00	-4,922.29	3,165.88	4,542.48	4,296.96	245.52	18.502	
16,000.00	7,806.90	7,746.90	7,746.90	165.60	155.42	-90.00	-4,922.29	3,165.88	4,634.12	4,389.04	245.08	18.908	
16,100.00	7,806.90	7,746.90	7,746.90	167.33	155.42	-90.00	-4,922.29	3,165.88	4,726.11	4,481.45	244.66	19.317	
16,200.00	7,806.90	7,746.90	7,746.90	169.06	155.42	-90.00	-4,922.29	3,165.88	4,818.42	4,574.16	244.25	19.727	
16,300.00	7,806.90	7,746.90	7,746.90	170.79	155.42	-90.00	-4,922.29	3,165.88	4,911.02	4,667.16	243.86	20.139	
16,400.00	7,806.90	7,746.90	7,746.90	172.52	155.42	-90.00	-4,922.29	3,165.88	5,003.91	4,760.44	243.48	20.552	
16,500.00	7,806.90	7,746.90	7,746.90	174.26	155.42	-90.00	-4,922.29	3,165.88	5,097.07	4,853.97	243.11	20.967	
16,600.00	7,806.89	7,746.89	7,746.89	175.99	155.42	-90.00	-4,922.29	3,165.88	5,190.49	4,947.74	242.75	21.382	
16,700.00	7,806.89	7,746.89	7,746.89	177.72	155.42	-90.00	-4,922.29	3,165.88	5,284.15	5,041.75	242.40	21.799	
16,800.00	7,806.89	7,746.89	7,746.89	179.46	155.42	-90.00	-4,922.29	3,165.88	5,378.03	5,135.97	242.06	22.218	
16,900.00	7,806.89	7,746.89	7,746.89	181.19	155.42	-90.00	-4,922.29	3,165.88	5,472.13	5,230.40	241.74	22.637	
17,000.00	7,806.89	7,746.89	7,746.89	182.93	155.42	-90.00	-4,922.29	3,165.88	5,566.44	5,325.02	241.42	23.057	
17,100.00	7,806.89	7,746.89	7,746.89	184.67	155.42	-90.00	-4,922.29	3,165.88	5,660.94	5,419.83	241.11	23.478	
17,200.00	7,806.89	7,746.89	7,746.89	186.40	155.42	-90.00	-4,922.29	3,165.88	5,755.63	5,514.81	240.82	23.900	
17,300.00	7,806.89	7,746.89	7,746.89	188.14	155.42	-90.00	-4,922.29	3,165.88	5,850.49	5,609.96	240.53	24.323	
17,400.00	7,806.88	7,746.88	7,746.88	189.88	155.42	-90.00	-4,922.29	3,165.88	5,945.53	5,705.28	240.25	24.747	
17,500.00	7,806.88	7,746.88	7,746.88	191.62	155.42	-90.00	-4,922.29	3,165.88	6,040.72	5,800.74	239.98	25.171	
17,600.00	7,806.88	7,746.88	7,746.88	193.36	155.42	-90.00	-4,922.29	3,165.88	6,136.07	5,896.35	239.72	25.597	
17,700.00	7,806.88	7,746.88	7,746.88	195.10	155.42	-90.00	-4,922.29	3,165.88	6,231.56	5,992.09	239.47	26.022	
17,800.00	7,806.88	7,746.88	7,746.88	196.84	155.42	-90.00	-4,922.29	3,165.88	6,327.19	6,087.97	239.22	26.449	
17,900.00	7,806.88	7,746.88	7,746.88	198.58	155.42	-90.00	-4,922.29	3,165.88	6,422.96	6,183.97	238.99	26.876	
18,000.00	7,806.88	7,746.88	7,746.88	200.33	155.42	-90.00	-4,922.29	3,165.88	6,518.85	6,280.09	238.76	27.303	
18,027.46	7,807.00	7,747.00	7,747.00	200.80	155.42	-90.00	-4,922.29	3,165.88	6,545.28	6,306.58	238.70	27.420	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	123.60	-4,406.52	6,632.42	7,963.20					
100.00	100.00	22.00	22.00	0.13	0.26	123.60	-4,406.52	6,632.42	7,962.82	7,962.42	0.40	N/A		
200.00	200.00	122.00	122.00	0.49	1.70	123.60	-4,406.52	6,632.42	7,962.82	7,960.62	2.19	3,627.964		
300.00	300.00	222.00	222.00	0.85	3.95	123.60	-4,406.52	6,632.42	7,962.82	7,958.02	4.80	1,660.139		
400.00	400.00	322.00	322.00	1.21	6.02	123.60	-4,406.52	6,632.42	7,962.82	7,955.59	7.23	1,102.071		
500.00	500.00	422.00	422.00	1.57	8.05	123.60	-4,406.52	6,632.42	7,962.82	7,953.19	9.62	827.470		
600.00	600.00	522.00	522.00	1.93	10.08	123.60	-4,406.52	6,632.42	7,962.82	7,950.81	12.01	663.058		
700.00	700.00	622.00	622.00	2.29	12.10	123.60	-4,406.52	6,632.42	7,962.82	7,948.43	14.39	553.368		
800.00	800.00	722.00	722.00	2.64	14.12	123.60	-4,406.52	6,632.42	7,962.82	7,946.05	16.77	474.910		
900.00	900.00	822.00	822.00	3.00	16.14	123.60	-4,406.52	6,632.42	7,962.82	7,943.67	19.14	415.980		
1,000.00	1,000.00	922.00	922.00	3.36	18.16	123.60	-4,406.52	6,632.42	7,962.82	7,941.30	21.52	370.083		
1,100.00	1,099.98	1,021.98	1,021.98	3.71	20.17	-3.41	-4,406.52	6,632.42	7,961.07	7,937.20	23.87	333.448		
1,200.00	1,199.84	1,121.84	1,121.84	4.04	22.18	-3.42	-4,406.52	6,632.42	7,955.85	7,929.63	26.22	303.410		
1,300.00	1,299.45	1,221.45	1,221.45	4.39	24.19	-3.43	-4,406.52	6,632.42	7,947.15	7,918.58	28.57	278.195		
1,400.00	1,398.70	1,320.70	1,320.70	4.74	26.18	-3.45	-4,406.52	6,632.42	7,934.98	7,904.08	30.91	256.729		
1,500.00	1,497.47	1,419.47	1,419.47	5.12	28.17	-3.48	-4,406.52	6,632.42	7,919.37	7,886.13	33.24	238.233		
1,600.00	1,595.62	1,517.62	1,517.62	5.51	30.15	-3.51	-4,406.52	6,632.42	7,900.32	7,864.76	35.57	222.128		
1,700.00	1,693.06	1,615.06	1,615.06	5.94	32.11	-3.55	-4,406.52	6,632.42	7,877.87	7,839.99	37.88	207.975		
1,800.00	1,789.64	1,711.64	1,711.64	6.39	34.05	-3.59	-4,406.52	6,632.42	7,852.04	7,811.86	40.18	195.437		
1,863.26	1,850.25	1,772.25	1,772.25	6.70	35.27	-3.62	-4,406.52	6,632.42	7,833.96	7,792.34	41.62	188.209		
1,900.00	1,885.34	1,807.34	1,807.34	6.89	35.98	-3.63	-4,406.52	6,632.42	7,823.08	7,780.62	42.46	184.241		
2,000.00	1,980.83	1,902.83	1,902.83	7.41	37.90	-3.64	-4,406.52	6,632.42	7,793.45	7,748.72	44.74	174.208		
2,100.00	2,076.33	2,001.67	1,998.33	7.95	39.89	-3.66	-4,406.52	6,632.42	7,763.83	7,716.74	47.08	164.892		
2,200.00	2,171.82	2,106.18	2,093.82	8.50	41.99	-3.67	-4,406.52	6,632.42	7,734.20	7,684.65	49.55	156.089		
2,300.00	2,267.32	2,189.32	2,189.32	9.07	43.66	-3.69	-4,406.52	6,632.42	7,704.58	7,652.99	51.59	149.344		
2,400.00	2,362.81	2,284.81	2,284.81	9.64	45.58	-3.70	-4,406.52	6,632.42	7,674.96	7,621.08	53.88	142.444		
2,500.00	2,458.30	2,380.30	2,380.30	10.22	47.50	-3.71	-4,406.52	6,632.42	7,645.33	7,589.16	56.17	136.100		
2,600.00	2,553.80	2,475.80	2,475.80	10.81	49.42	-3.73	-4,406.52	6,632.42	7,615.71	7,557.24	58.47	130.248		
2,700.00	2,649.29	2,571.29	2,571.29	11.41	51.35	-3.74	-4,406.52	6,632.42	7,586.09	7,525.32	60.77	124.835		
2,800.00	2,744.79	2,666.79	2,666.79	12.01	53.27	-3.76	-4,406.52	6,632.42	7,556.47	7,493.40	63.07	119.812		
2,900.00	2,840.28	2,762.28	2,762.28	12.61	55.19	-3.77	-4,406.52	6,632.42	7,526.85	7,461.48	65.37	115.140		
3,000.00	2,935.77	2,857.77	2,857.77	13.22	57.11	-3.79	-4,406.52	6,632.42	7,497.23	7,429.55	67.67	110.783		
3,100.00	3,031.27	2,953.27	2,953.27	13.83	59.03	-3.80	-4,406.52	6,632.42	7,467.61	7,397.63	69.98	106.711		
3,200.00	3,126.76	3,048.76	3,048.76	14.44	60.95	-3.82	-4,406.52	6,632.42	7,437.99	7,365.70	72.29	102.897		
3,300.00	3,222.26	3,144.26	3,144.26	15.06	62.87	-3.83	-4,406.52	6,632.42	7,408.37	7,333.78	74.59	99.318		
3,400.00	3,317.75	3,239.75	3,239.75	15.68	64.79	-3.85	-4,406.52	6,632.42	7,378.75	7,301.85	76.90	95.952		
3,500.00	3,413.25	3,335.25	3,335.25	16.30	66.71	-3.86	-4,406.52	6,632.42	7,349.13	7,269.92	79.21	92.780		
3,600.00	3,508.74	3,430.74	3,430.74	16.92	68.63	-3.88	-4,406.52	6,632.42	7,319.51	7,237.99	81.52	89.788		
3,700.00	3,604.23	3,526.23	3,526.23	17.54	70.55	-3.90	-4,406.52	6,632.42	7,289.90	7,206.07	83.83	86.960		
3,800.00	3,699.73	3,621.73	3,621.73	18.17	72.47	-3.91	-4,406.52	6,632.42	7,260.28	7,174.14	86.14	84.283		
3,900.00	3,795.22	3,717.22	3,717.22	18.79	74.39	-3.93	-4,406.52	6,632.42	7,230.66	7,142.21	88.45	81.745		
4,000.00	3,890.72	3,812.72	3,812.72	19.42	76.31	-3.94	-4,406.52	6,632.42	7,201.05	7,110.28	90.77	79.336		
4,100.00	3,986.21	3,908.21	3,908.21	20.05	78.23	-3.96	-4,406.52	6,632.42	7,171.43	7,078.35	93.08	77.046		
4,200.00	4,081.70	4,003.70	4,003.70	20.67	80.16	-3.98	-4,406.52	6,632.42	7,141.82	7,046.42	95.39	74.866		
4,300.00	4,177.20	4,100.80	4,099.20	21.30	82.11	-3.99	-4,406.52	6,632.42	7,112.20	7,014.46	97.74	72.766		
4,400.00	4,272.69	4,205.31	4,194.69	21.93	84.21	-4.01	-4,406.52	6,632.42	7,082.59	6,982.35	100.24	70.658		
4,500.00	4,368.19	4,309.81	4,290.19	22.56	86.31	-4.03	-4,406.52	6,632.42	7,052.98	6,950.24	102.73	68.653		
4,600.00	4,463.68	4,385.68	4,385.68	23.19	87.84	-4.04	-4,406.52	6,632.42	7,023.37	6,918.71	104.65	67.110		
4,700.00	4,559.17	4,481.17	4,481.17	23.83	89.76	-4.06	-4,406.52	6,632.42	6,993.75	6,886.78	106.97	65.380		
4,800.00	4,654.67	4,576.67	4,576.67	24.46	91.68	-4.08	-4,406.52	6,632.42	6,964.14	6,854.85	109.29	63.723		
4,900.00	4,750.16	4,672.16	4,672.16	25.09	93.60	-4.10	-4,406.52	6,632.42	6,934.53	6,822.93	111.60	62.135		
5,000.00	4,845.66	4,767.66	4,767.66	25.72	95.52	-4.11	-4,406.52	6,632.42	6,904.92	6,791.00	113.92	60.611		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,863.15	4,863.15	26.36	97.44	-4.13	-4,406.52	6,632.42	6,875.31	6,759.07	116.24	59.148		
5,200.00	5,036.65	4,958.65	4,958.65	26.99	99.36	-4.15	-4,406.52	6,632.42	6,845.70	6,727.14	118.56	57.741		
5,300.00	5,132.14	5,054.14	5,054.14	27.63	101.28	-4.17	-4,406.52	6,632.42	6,816.09	6,695.22	120.88	56.389		
5,400.00	5,227.63	5,149.63	5,149.63	28.26	103.20	-4.18	-4,406.52	6,632.42	6,786.49	6,663.29	123.19	55.087		
5,500.00	5,323.13	5,245.13	5,245.13	28.90	105.12	-4.20	-4,406.52	6,632.42	6,756.88	6,631.37	125.51	53.834		
5,600.00	5,418.62	5,340.62	5,340.62	29.53	107.04	-4.22	-4,406.52	6,632.42	6,727.27	6,599.44	127.83	52.625		
5,700.00	5,514.12	5,436.12	5,436.12	30.17	108.96	-4.24	-4,406.52	6,632.42	6,697.67	6,567.51	130.15	51.460		
5,800.00	5,609.61	5,503.00	5,503.00	30.80	110.31	-4.25	-4,406.52	6,632.42	6,668.12	6,536.21	131.92	50.548		
5,900.00	5,705.10	5,503.00	5,503.00	31.44	110.31	-4.25	-4,406.52	6,632.42	6,639.62	6,507.26	132.36	50.163		
6,000.00	5,800.60	5,503.00	5,503.00	32.08	110.31	-4.25	-4,406.52	6,632.42	6,612.50	6,479.72	132.78	49.800		
6,100.00	5,896.09	5,503.00	5,503.00	32.71	110.31	-4.25	-4,406.52	6,632.42	6,586.79	6,453.61	133.18	49.459		
6,200.00	5,991.59	5,503.00	5,503.00	33.35	110.31	-4.25	-4,406.52	6,632.42	6,562.51	6,428.96	133.55	49.139		
6,300.00	6,087.08	5,503.00	5,503.00	33.99	110.31	-4.25	-4,406.52	6,632.42	6,539.66	6,405.77	133.89	48.842		
6,400.00	6,182.57	5,503.00	5,503.00	34.62	110.31	-4.25	-4,406.52	6,632.42	6,518.27	6,384.05	134.21	48.567		
6,499.99	6,278.06	5,503.00	5,503.00	35.26	110.31	-4.25	-4,406.52	6,632.42	6,498.34	6,363.84	134.50	48.315		
6,505.95	6,283.75	5,503.00	5,503.00	35.30	110.31	-4.25	-4,406.52	6,632.42	6,497.20	6,362.69	134.52	48.300		
6,600.00	6,374.00	5,503.00	5,503.00	35.88	110.31	-4.23	-4,406.52	6,632.42	6,481.42	6,346.66	134.76	48.097		
6,700.00	6,470.87	5,503.00	5,503.00	36.44	110.31	-4.21	-4,406.52	6,632.42	6,469.44	6,334.47	134.98	47.931		
6,800.00	6,568.53	5,503.00	5,503.00	36.96	110.31	-4.20	-4,406.52	6,632.42	6,462.46	6,327.31	135.15	47.816		
6,888.98	6,656.02	5,503.00	5,503.00	37.37	110.31	-4.20	-4,406.52	6,632.42	6,460.47	6,325.20	135.27	47.758		
6,900.00	6,666.89	5,503.00	5,503.00	37.43	110.31	-4.20	-4,406.52	6,632.42	6,460.50	6,325.21	135.29	47.754		
7,000.00	6,765.82	5,503.00	5,503.00	37.85	110.31	-4.20	-4,406.52	6,632.42	6,463.57	6,328.19	135.38	47.744		
7,100.00	6,865.19	5,503.00	5,503.00	38.22	110.31	-4.22	-4,406.52	6,632.42	6,471.65	6,336.22	135.43	47.786		
7,200.00	6,964.89	5,503.00	5,503.00	38.55	110.31	-4.23	-4,406.52	6,632.42	6,484.73	6,349.29	135.44	47.881		
7,300.00	7,064.80	5,503.00	5,503.00	38.83	110.31	-4.26	-4,406.52	6,632.42	6,502.74	6,367.34	135.40	48.026		
7,369.20	7,134.00	5,503.00	5,503.00	39.00	110.31	122.72	-4,406.52	6,632.42	6,518.07	6,382.72	135.35	48.158		
7,400.00	7,164.80	5,503.00	5,503.00	39.06	110.31	122.72	-4,406.52	6,632.42	6,525.47	6,390.16	135.31	48.225		
7,469.20	7,234.00	5,503.00	5,503.00	39.22	110.31	122.72	-4,406.52	6,632.42	6,542.62	6,407.38	135.23	48.381		
7,500.00	7,264.78	5,503.00	5,503.00	39.29	110.31	-56.30	-4,406.52	6,632.42	6,550.02	6,414.83	135.19	48.449		
7,550.00	7,314.53	5,503.00	5,503.00	39.44	110.31	-55.42	-4,406.52	6,632.42	6,560.43	6,425.29	135.14	48.545		
7,600.00	7,363.66	5,503.00	5,503.00	39.62	110.31	-54.72	-4,406.52	6,632.42	6,568.78	6,433.68	135.10	48.623		
7,650.00	7,411.81	5,503.00	5,503.00	39.82	110.31	-54.21	-4,406.52	6,632.42	6,575.00	6,439.94	135.06	48.681		
7,700.00	7,458.61	5,503.00	5,503.00	40.06	110.31	-53.88	-4,406.52	6,632.42	6,579.07	6,444.03	135.04	48.720		
7,750.00	7,503.69	5,503.00	5,503.00	40.32	110.31	-53.73	-4,406.52	6,632.42	6,580.95	6,445.92	135.03	48.738		
7,800.00	7,546.72	5,503.00	5,503.00	40.60	110.31	-53.76	-4,406.52	6,632.42	6,580.63	6,445.60	135.03	48.734		
7,850.00	7,587.38	5,503.00	5,503.00	40.92	110.31	-53.96	-4,406.52	6,632.42	6,578.11	6,443.05	135.05	48.707		
7,900.00	7,625.34	5,503.00	5,503.00	41.25	110.31	-54.34	-4,406.52	6,632.42	6,573.41	6,438.31	135.10	48.657		
7,950.00	7,660.33	5,503.00	5,503.00	41.61	110.31	-54.91	-4,406.52	6,632.42	6,566.56	6,431.40	135.16	48.582		
8,000.00	7,692.07	5,503.00	5,503.00	42.00	110.31	-55.65	-4,406.52	6,632.42	6,557.60	6,422.35	135.26	48.483		
8,050.00	7,720.33	5,503.00	5,503.00	42.40	110.31	-56.59	-4,406.52	6,632.42	6,546.61	6,411.23	135.38	48.358		
8,100.00	7,744.89	5,503.00	5,503.00	42.83	110.31	-57.72	-4,406.52	6,632.42	6,533.64	6,398.11	135.53	48.209		
8,150.00	7,765.56	5,503.00	5,503.00	43.27	110.31	-59.04	-4,406.52	6,632.42	6,518.78	6,383.07	135.71	48.034		
8,200.00	7,782.18	5,503.00	5,503.00	43.74	110.31	-60.57	-4,406.52	6,632.42	6,502.14	6,366.22	135.93	47.835		
8,250.00	7,794.63	5,503.00	5,503.00	44.22	110.31	-62.30	-4,406.52	6,632.42	6,483.84	6,347.66	136.18	47.612		
8,300.00	7,802.82	5,503.00	5,503.00	44.71	110.31	-64.23	-4,406.52	6,632.42	6,463.99	6,327.52	136.47	47.367		
8,350.00	7,806.68	5,503.00	5,503.00	45.21	110.31	-66.36	-4,406.52	6,632.42	6,442.73	6,305.94	136.79	47.101		
8,369.28	7,807.00	5,503.00	5,503.00	45.40	110.31	-67.24	-4,406.52	6,632.42	6,434.19	6,297.27	136.92	46.993		
8,400.00	7,807.00	5,503.00	5,503.00	45.72	110.31	-67.24	-4,406.52	6,632.42	6,420.49	6,283.36	137.14	46.819		
8,500.00	7,807.00	5,503.00	5,503.00	46.77	110.31	-67.24	-4,406.52	6,632.42	6,376.73	6,238.82	137.91	46.239		
8,600.00	7,807.00	5,503.00	5,503.00	47.86	110.31	-67.24	-4,406.52	6,632.42	6,334.25	6,195.48	138.77	45.645		
8,700.00	7,807.00	5,503.00	5,503.00	48.99	110.31	-67.24	-4,406.52	6,632.42	6,293.07	6,153.34	139.73	45.038		
8,800.00	7,806.99	5,503.00	5,503.00	50.16	110.31	-67.24	-4,406.52	6,632.42	6,253.21	6,112.45	140.77	44.422		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	5,503.00	5,503.00	51.37	110.31	-67.24	-4,406.52	6,632.42	6,214.71	6,072.82	141.89	43.800		
9,000.00	7,806.99	5,503.00	5,503.00	52.60	110.31	-67.24	-4,406.52	6,632.42	6,177.59	6,034.51	143.08	43.174		
9,100.00	7,806.99	5,503.00	5,503.00	53.87	110.31	-67.24	-4,406.52	6,632.42	6,141.88	5,997.52	144.35	42.548		
9,200.00	7,806.99	5,503.00	5,503.00	55.17	110.31	-67.24	-4,406.52	6,632.42	6,107.59	5,961.90	145.69	41.923		
9,300.00	7,806.99	5,503.00	5,503.00	56.49	110.31	-67.24	-4,406.52	6,632.42	6,074.75	5,927.67	147.08	41.301		
9,400.00	7,806.99	5,503.00	5,503.00	57.83	110.31	-67.24	-4,406.52	6,632.42	6,043.39	5,894.86	148.54	40.686		
9,500.00	7,806.99	5,503.00	5,503.00	59.20	110.31	-67.24	-4,406.52	6,632.42	6,013.53	5,863.49	150.05	40.078		
9,600.00	7,806.98	5,503.00	5,503.00	60.59	110.31	-67.24	-4,406.52	6,632.42	5,985.20	5,833.60	151.60	39.480		
9,700.00	7,806.98	5,503.00	5,503.00	62.00	110.31	-67.24	-4,406.52	6,632.42	5,958.40	5,805.20	153.20	38.893		
9,800.00	7,806.98	5,503.00	5,503.00	63.43	110.31	-67.24	-4,406.52	6,632.42	5,933.17	5,778.33	154.84	38.318		
9,900.00	7,806.98	5,503.00	5,503.00	64.87	110.31	-67.24	-4,406.52	6,632.42	5,909.53	5,753.01	156.52	37.756		
10,000.00	7,806.98	5,503.00	5,503.00	66.34	110.31	-67.24	-4,406.52	6,632.42	5,887.49	5,729.26	158.23	37.208		
10,100.00	7,806.98	5,503.00	5,503.00	67.81	110.31	-67.24	-4,406.52	6,632.42	5,867.07	5,707.10	159.97	36.676		
10,200.00	7,806.98	5,503.00	5,503.00	69.30	110.31	-67.24	-4,406.52	6,632.42	5,848.29	5,686.55	161.74	36.159		
10,300.00	7,806.98	5,503.00	5,503.00	70.81	110.31	-67.24	-4,406.52	6,632.42	5,831.17	5,667.64	163.53	35.659		
10,400.00	7,806.97	5,503.00	5,503.00	72.32	110.31	-67.24	-4,406.52	6,632.42	5,815.71	5,650.37	165.34	35.175		
10,500.00	7,806.97	5,503.00	5,503.00	73.85	110.31	-67.24	-4,406.52	6,632.42	5,801.94	5,634.78	167.16	34.709		
10,600.00	7,806.97	5,503.00	5,503.00	75.39	110.31	-67.24	-4,406.52	6,632.42	5,789.86	5,620.86	169.00	34.260		
10,700.00	7,806.97	5,503.00	5,503.00	76.94	110.31	-67.24	-4,406.52	6,632.42	5,779.49	5,608.64	170.85	33.828		
10,800.00	7,806.97	5,503.00	5,503.00	78.49	110.31	-67.24	-4,406.52	6,632.42	5,770.83	5,598.12	172.70	33.415		
10,900.00	7,806.97	5,503.00	5,503.00	80.06	110.31	-67.24	-4,406.52	6,632.42	5,763.89	5,589.33	174.56	33.019		
11,000.00	7,806.97	5,503.00	5,503.00	81.64	110.31	-67.24	-4,406.52	6,632.42	5,758.68	5,582.26	176.42	32.641		
11,100.00	7,806.97	5,503.00	5,503.00	83.22	110.31	-67.24	-4,406.52	6,632.42	5,755.21	5,576.92	178.28	32.281		
11,200.00	7,806.96	5,503.00	5,503.00	84.81	110.31	-67.24	-4,406.52	6,632.42	5,753.47	5,573.33	180.14	31.939		
11,250.05	7,806.96	5,503.00	5,503.00	85.61	110.31	-67.24	-4,406.52	6,632.42	5,753.25	5,572.18	181.07	31.774 CC		
11,300.00	7,806.96	5,503.00	5,503.00	86.41	110.31	-67.24	-4,406.52	6,632.42	5,753.47	5,571.48	181.99	31.614		
11,400.00	7,806.96	5,503.00	5,503.00	88.01	110.31	-67.24	-4,406.52	6,632.42	5,755.21	5,571.37	183.83	31.307 ES		
11,500.00	7,806.96	5,503.00	5,503.00	89.63	110.31	-67.24	-4,406.52	6,632.42	5,758.68	5,573.02	185.66	31.017		
11,600.00	7,806.96	5,503.00	5,503.00	91.24	110.31	-67.24	-4,406.52	6,632.42	5,763.89	5,576.40	187.48	30.744		
11,700.00	7,806.96	5,503.00	5,503.00	92.87	110.31	-67.24	-4,406.52	6,632.42	5,770.82	5,581.54	189.28	30.488		
11,800.00	7,806.96	5,503.00	5,503.00	94.49	110.31	-67.24	-4,406.52	6,632.42	5,779.48	5,588.41	191.07	30.248		
11,900.00	7,806.95	5,503.00	5,503.00	96.13	110.31	-67.24	-4,406.52	6,632.42	5,789.85	5,597.02	192.83	30.025		
12,000.00	7,806.95	5,503.00	5,503.00	97.77	110.31	-67.24	-4,406.52	6,632.42	5,801.92	5,607.35	194.58	29.818		
12,100.00	7,806.95	5,503.00	5,503.00	99.41	110.31	-67.24	-4,406.52	6,632.42	5,815.70	5,619.40	196.30	29.627		
12,200.00	7,806.95	5,503.00	5,503.00	101.06	110.31	-67.24	-4,406.52	6,632.42	5,831.15	5,633.16	197.99	29.451		
12,300.00	7,806.95	5,503.00	5,503.00	102.71	110.31	-67.24	-4,406.52	6,632.42	5,848.27	5,648.61	199.67	29.290		
12,400.00	7,806.95	5,503.00	5,503.00	104.37	110.31	-67.24	-4,406.52	6,632.42	5,867.05	5,665.74	201.31	29.145		
12,500.00	7,806.95	5,503.00	5,503.00	106.02	110.31	-67.24	-4,406.52	6,632.42	5,887.47	5,684.54	202.92	29.013		
12,600.00	7,806.95	5,503.00	5,503.00	107.69	110.31	-67.24	-4,406.52	6,632.42	5,909.51	5,705.00	204.51	28.896		
12,700.00	7,806.94	5,503.00	5,503.00	109.35	110.31	-67.24	-4,406.52	6,632.42	5,933.15	5,727.09	206.06	28.793		
12,800.00	7,806.94	5,503.00	5,503.00	111.02	110.31	-67.24	-4,406.52	6,632.42	5,958.38	5,750.79	207.59	28.703		
12,900.00	7,806.94	5,503.00	5,503.00	112.70	110.31	-67.24	-4,406.52	6,632.42	5,985.17	5,776.09	209.08	28.627		
13,000.00	7,806.94	5,503.00	5,503.00	114.37	110.31	-67.24	-4,406.52	6,632.42	6,013.50	5,802.97	210.53	28.563		
13,100.00	7,806.94	5,503.00	5,503.00	116.05	110.31	-67.24	-4,406.52	6,632.42	6,043.36	5,831.40	211.96	28.512		
13,200.00	7,806.94	5,503.00	5,503.00	117.74	110.31	-67.24	-4,406.52	6,632.42	6,074.72	5,861.37	213.35	28.473		
13,300.00	7,806.94	5,503.00	5,503.00	119.42	110.31	-67.24	-4,406.52	6,632.42	6,107.55	5,892.85	214.70	28.446		
13,400.00	7,806.94	5,503.00	5,503.00	121.11	110.31	-67.24	-4,406.52	6,632.42	6,141.84	5,925.81	216.03	28.431		
13,500.00	7,806.93	5,503.00	5,503.00	122.80	110.31	-67.24	-4,406.52	6,632.42	6,177.55	5,960.24	217.31	28.427 SF		
13,600.00	7,806.93	5,503.00	5,503.00	124.49	110.31	-67.24	-4,406.52	6,632.42	6,214.67	5,996.11	218.56	28.434		
13,700.00	7,806.93	5,503.00	5,503.00	126.18	110.31	-67.24	-4,406.52	6,632.42	6,253.17	6,033.39	219.78	28.452		
13,800.00	7,806.93	5,503.00	5,503.00	127.88	110.31	-67.24	-4,406.52	6,632.42	6,293.02	6,072.06	220.96	28.480		
13,900.00	7,806.93	5,503.00	5,503.00	129.58	110.31	-67.24	-4,406.52	6,632.42	6,334.20	6,112.10	222.11	28.519		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	5,503.00	5,503.00	131.28	110.31	-67.24	-4,406.52	6,632.42	6,376.69	6,153.47	223.22	28.567		
14,100.00	7,806.93	5,503.00	5,503.00	132.98	110.31	-67.24	-4,406.52	6,632.42	6,420.44	6,196.15	224.30	28.625		
14,200.00	7,806.93	5,503.00	5,503.00	134.68	110.31	-67.24	-4,406.52	6,632.42	6,465.45	6,240.11	225.34	28.692		
14,300.00	7,806.92	5,503.00	5,503.00	136.39	110.31	-67.24	-4,406.52	6,632.42	6,511.69	6,285.33	226.35	28.768		
14,400.00	7,806.92	5,503.00	5,503.00	138.10	110.31	-67.24	-4,406.52	6,632.42	6,559.12	6,331.79	227.33	28.852		
14,500.00	7,806.92	5,503.00	5,503.00	139.81	110.31	-67.24	-4,406.52	6,632.42	6,607.73	6,379.45	228.28	28.946		
14,600.00	7,806.92	5,503.00	5,503.00	141.52	110.31	-67.24	-4,406.52	6,632.42	6,657.48	6,428.29	229.19	29.047		
14,700.00	7,806.92	5,503.00	5,503.00	143.23	110.31	-67.24	-4,406.52	6,632.42	6,708.36	6,478.28	230.08	29.157		
14,800.00	7,806.92	5,503.00	5,503.00	144.94	110.31	-67.24	-4,406.52	6,632.42	6,760.33	6,529.40	230.93	29.274		
14,900.00	7,806.92	5,503.00	5,503.00	146.66	110.31	-67.24	-4,406.52	6,632.42	6,813.37	6,581.62	231.75	29.399		
15,000.00	7,806.92	5,503.00	5,503.00	148.37	110.31	-67.24	-4,406.52	6,632.42	6,867.46	6,634.92	232.54	29.532		
15,100.00	7,806.91	5,503.00	5,503.00	150.09	110.31	-67.24	-4,406.52	6,632.42	6,922.57	6,689.26	233.31	29.671		
15,200.00	7,806.91	5,503.00	5,503.00	151.81	110.31	-67.24	-4,406.52	6,632.42	6,978.68	6,744.64	234.05	29.818		
15,300.00	7,806.91	5,503.00	5,503.00	153.53	110.31	-67.24	-4,406.52	6,632.42	7,035.76	6,801.01	234.75	29.971		
15,400.00	7,806.91	5,503.00	5,503.00	155.25	110.31	-67.24	-4,406.52	6,632.42	7,093.80	6,858.36	235.44	30.130		
15,500.00	7,806.91	5,503.00	5,503.00	156.97	110.31	-67.24	-4,406.52	6,632.42	7,152.76	6,916.66	236.09	30.296		
15,600.00	7,806.91	5,503.00	5,503.00	158.70	110.31	-67.24	-4,406.52	6,632.42	7,212.62	6,975.90	236.73	30.468		
15,700.00	7,806.91	5,503.00	5,503.00	160.42	110.31	-67.24	-4,406.52	6,632.42	7,273.37	7,036.04	237.33	30.646		
15,800.00	7,806.91	5,503.00	5,503.00	162.15	110.31	-67.24	-4,406.52	6,632.42	7,334.98	7,097.06	237.92	30.830		
15,900.00	7,806.90	5,503.00	5,503.00	163.88	110.31	-67.24	-4,406.52	6,632.42	7,397.43	7,158.95	238.48	31.019		
16,000.00	7,806.90	5,503.00	5,503.00	165.60	110.31	-67.24	-4,406.52	6,632.42	7,460.69	7,221.68	239.02	31.214		
16,100.00	7,806.90	5,503.00	5,503.00	167.33	110.31	-67.24	-4,406.52	6,632.42	7,524.75	7,285.22	239.53	31.414		
16,200.00	7,806.90	5,503.00	5,503.00	169.06	110.31	-67.24	-4,406.52	6,632.42	7,589.59	7,349.56	240.03	31.620		
16,300.00	7,806.90	5,503.00	5,503.00	170.79	110.31	-67.24	-4,406.52	6,632.42	7,655.19	7,414.68	240.50	31.830		
16,400.00	7,806.90	5,503.00	5,503.00	172.52	110.31	-67.24	-4,406.52	6,632.42	7,721.52	7,480.56	240.96	32.045		
16,500.00	7,806.90	5,503.00	5,503.00	174.26	110.31	-67.24	-4,406.52	6,632.42	7,788.57	7,547.18	241.40	32.265		
16,600.00	7,806.89	5,503.00	5,503.00	175.99	110.31	-67.24	-4,406.52	6,632.42	7,856.33	7,614.51	241.81	32.489		
16,700.00	7,806.89	5,503.00	5,503.00	177.72	110.31	-67.24	-4,406.52	6,632.42	7,924.76	7,682.55	242.22	32.718		
16,800.00	7,806.89	5,503.00	5,503.00	179.46	110.31	-67.24	-4,406.52	6,632.42	7,993.86	7,751.26	242.60	32.951		
16,900.00	7,806.89	5,503.00	5,503.00	181.19	110.31	-67.24	-4,406.52	6,632.42	8,063.61	7,820.64	242.97	33.188		
17,000.00	7,806.89	5,503.00	5,503.00	182.93	110.31	-67.24	-4,406.52	6,632.42	8,133.99	7,890.67	243.32	33.429		
17,100.00	7,806.89	5,503.00	5,503.00	184.67	110.31	-67.24	-4,406.52	6,632.42	8,204.99	7,961.33	243.66	33.675		
17,200.00	7,806.89	5,503.00	5,503.00	186.40	110.31	-67.24	-4,406.52	6,632.42	8,276.58	8,032.60	243.98	33.924		
17,300.00	7,806.89	5,503.00	5,503.00	188.14	110.31	-67.24	-4,406.52	6,632.42	8,348.76	8,104.47	244.29	34.176		
17,400.00	7,806.88	5,503.00	5,503.00	189.88	110.31	-67.24	-4,406.52	6,632.42	8,421.51	8,176.93	244.58	34.433		
17,500.00	7,806.88	5,503.00	5,503.00	191.62	110.31	-67.24	-4,406.52	6,632.42	8,494.81	8,249.95	244.86	34.692		
17,600.00	7,806.88	5,503.00	5,503.00	193.36	110.31	-67.24	-4,406.52	6,632.42	8,568.65	8,323.52	245.13	34.956		
17,700.00	7,806.88	5,503.00	5,503.00	195.10	110.31	-67.24	-4,406.52	6,632.42	8,643.02	8,397.63	245.39	35.222		
17,800.00	7,806.88	5,503.00	5,503.00	196.84	110.31	-67.24	-4,406.52	6,632.42	8,717.90	8,472.27	245.63	35.492		
17,900.00	7,806.88	5,503.00	5,503.00	198.58	110.31	-67.24	-4,406.52	6,632.42	8,793.28	8,547.41	245.86	35.765		
18,000.00	7,806.88	5,503.00	5,503.00	200.33	110.31	-67.24	-4,406.52	6,632.42	8,869.14	8,623.06	246.09	36.041		
18,027.46	7,807.00	5,503.00	5,503.00	200.80	110.31	-67.24	-4,406.52	6,632.42	8,890.25	8,644.10	246.15	36.118		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	129.85	-5,394.48	6,463.20	8,419.27					
100.00	100.00	4.00	-4.00	0.13	0.05	129.85	-5,394.48	6,463.20	8,418.63	8,418.45	0.18	N/A		
200.00	200.00	104.00	96.00	0.49	1.29	129.85	-5,394.48	6,463.20	8,418.63	8,416.85	1.78	4,722.386		
300.00	300.00	204.00	196.00	0.85	3.57	129.85	-5,394.48	6,463.20	8,418.63	8,414.21	4.42	1,903.644		
400.00	400.00	304.00	296.00	1.21	5.65	129.85	-5,394.48	6,463.20	8,418.63	8,411.77	6.86	1,227.613		
500.00	500.00	404.00	396.00	1.57	7.69	129.85	-5,394.48	6,463.20	8,418.63	8,409.37	9.26	909.350		
600.00	600.00	504.00	496.00	1.93	9.72	129.85	-5,394.48	6,463.20	8,418.63	8,406.98	11.65	722.931		
700.00	700.00	604.00	596.00	2.29	11.74	129.85	-5,394.48	6,463.20	8,418.63	8,404.60	14.03	600.206		
800.00	800.00	704.00	696.00	2.64	13.76	129.85	-5,394.48	6,463.20	8,418.63	8,402.23	16.40	513.208		
900.00	900.00	804.00	796.00	3.00	15.78	129.85	-5,394.48	6,463.20	8,418.63	8,399.85	18.78	448.289		
1,000.00	1,000.00	904.00	896.00	3.36	17.79	129.85	-5,394.48	6,463.20	8,418.63	8,397.48	21.15	397.975		
1,100.00	1,099.98	1,004.02	995.98	3.71	19.81	2.85	-5,394.48	6,463.20	8,416.89	8,393.37	23.51	357.962		
1,200.00	1,199.84	1,104.16	1,095.84	4.04	21.82	2.85	-5,394.48	6,463.20	8,411.66	8,385.79	25.87	325.205		
1,300.00	1,299.45	1,204.55	1,195.45	4.39	23.85	2.87	-5,394.48	6,463.20	8,402.96	8,374.73	28.23	297.693		
1,400.00	1,398.70	1,305.30	1,294.70	4.74	25.87	2.88	-5,394.48	6,463.20	8,390.78	8,360.19	30.60	274.222		
1,500.00	1,497.47	1,406.53	1,393.47	5.12	27.91	2.90	-5,394.48	6,463.20	8,375.16	8,342.18	32.98	253.927		
1,600.00	1,595.62	1,508.38	1,491.62	5.51	29.96	2.93	-5,394.48	6,463.20	8,356.10	8,320.72	35.38	236.174		
1,700.00	1,693.06	1,589.06	1,589.06	5.94	31.59	2.96	-5,394.48	6,463.20	8,333.64	8,296.28	37.36	223.085		
1,800.00	1,789.64	1,685.64	1,685.64	6.39	33.53	3.00	-5,394.48	6,463.20	8,307.79	8,268.14	39.65	209.506		
1,863.26	1,850.25	1,746.25	1,746.25	6.70	34.75	3.02	-5,394.48	6,463.20	8,289.71	8,248.61	41.10	201.692		
1,900.00	1,885.34	1,781.34	1,781.34	6.89	35.45	3.03	-5,394.48	6,463.20	8,278.82	8,236.88	41.94	197.407		
2,000.00	1,980.83	1,876.83	1,876.83	7.41	37.38	3.04	-5,394.48	6,463.20	8,249.18	8,204.96	44.21	186.578		
2,100.00	2,076.33	1,972.33	1,972.33	7.95	39.30	3.05	-5,394.48	6,463.20	8,219.53	8,173.04	46.49	176.792		
2,200.00	2,171.82	2,067.82	2,067.82	8.50	41.22	3.06	-5,394.48	6,463.20	8,189.89	8,141.12	48.78	167.907		
2,300.00	2,267.32	2,163.32	2,163.32	9.07	43.14	3.07	-5,394.48	6,463.20	8,160.25	8,109.19	51.06	159.806		
2,400.00	2,262.81	2,258.81	2,258.81	9.64	45.06	3.08	-5,394.48	6,463.20	8,130.61	8,077.26	53.35	152.391		
2,500.00	2,458.30	2,354.30	2,354.30	10.22	46.98	3.10	-5,394.48	6,463.20	8,100.97	8,045.32	55.65	145.579		
2,600.00	2,553.80	2,449.80	2,449.80	10.81	48.90	3.11	-5,394.48	6,463.20	8,071.33	8,013.39	57.94	139.301		
2,700.00	2,649.29	2,545.29	2,545.29	11.41	50.82	3.12	-5,394.48	6,463.20	8,041.69	7,981.45	60.24	133.497		
2,800.00	2,744.79	2,640.79	2,640.79	12.01	52.74	3.13	-5,394.48	6,463.20	8,012.05	7,949.51	62.54	128.115		
2,900.00	2,840.28	2,736.28	2,736.28	12.61	54.66	3.14	-5,394.48	6,463.20	7,982.41	7,917.58	64.84	123.112		
3,000.00	2,935.77	2,831.77	2,831.77	13.22	56.58	3.15	-5,394.48	6,463.20	7,952.78	7,885.63	67.14	118.450		
3,100.00	3,031.27	2,927.27	2,927.27	13.83	58.51	3.16	-5,394.48	6,463.20	7,923.14	7,853.69	69.44	114.094		
3,200.00	3,126.76	3,022.76	3,022.76	14.44	60.43	3.18	-5,394.48	6,463.20	7,893.50	7,821.75	71.75	110.016		
3,300.00	3,222.26	3,118.26	3,118.26	15.06	62.35	3.19	-5,394.48	6,463.20	7,863.86	7,789.81	74.05	106.191		
3,400.00	3,317.75	3,213.75	3,213.75	15.68	64.27	3.20	-5,394.48	6,463.20	7,834.22	7,757.86	76.36	102.595		
3,500.00	3,413.25	3,309.25	3,309.25	16.30	66.19	3.21	-5,394.48	6,463.20	7,804.59	7,725.92	78.67	99.209		
3,600.00	3,508.74	3,404.74	3,404.74	16.92	68.11	3.23	-5,394.48	6,463.20	7,774.95	7,693.97	80.98	96.015		
3,700.00	3,604.23	3,500.23	3,500.23	17.54	70.03	3.24	-5,394.48	6,463.20	7,745.31	7,662.03	83.29	92.997		
3,800.00	3,699.73	3,604.27	3,595.73	18.17	72.12	3.25	-5,394.48	6,463.20	7,715.68	7,629.91	85.77	89.961		
3,900.00	3,795.22	3,708.78	3,691.22	18.79	74.22	3.26	-5,394.48	6,463.20	7,686.04	7,597.78	88.26	87.085		
4,000.00	3,890.72	3,786.72	3,786.72	19.42	75.79	3.28	-5,394.48	6,463.20	7,656.41	7,566.19	90.22	84.867		
4,100.00	3,986.21	3,882.21	3,882.21	20.05	77.71	3.29	-5,394.48	6,463.20	7,626.77	7,534.24	92.53	82.426		
4,200.00	4,081.70	3,977.70	3,977.70	20.67	79.63	3.30	-5,394.48	6,463.20	7,597.14	7,502.30	94.84	80.104		
4,300.00	4,177.20	4,073.20	4,073.20	21.30	81.55	3.31	-5,394.48	6,463.20	7,567.50	7,470.35	97.15	77.893		
4,400.00	4,272.69	4,168.69	4,168.69	21.93	83.47	3.33	-5,394.48	6,463.20	7,537.87	7,438.40	99.47	75.783		
4,500.00	4,368.19	4,264.19	4,264.19	22.56	85.39	3.34	-5,394.48	6,463.20	7,508.23	7,406.45	101.78	73.770		
4,600.00	4,463.68	4,359.68	4,359.68	23.19	87.31	3.35	-5,394.48	6,463.20	7,478.60	7,374.51	104.09	71.845		
4,700.00	4,559.17	4,455.17	4,455.17	23.83	89.23	3.37	-5,394.48	6,463.20	7,448.97	7,342.56	106.41	70.004		
4,800.00	4,654.67	4,550.67	4,550.67	24.46	91.16	3.38	-5,394.48	6,463.20	7,419.33	7,310.61	108.72	68.241		
4,900.00	4,750.16	4,646.16	4,646.16	25.09	93.08	3.39	-5,394.48	6,463.20	7,389.70	7,278.66	111.04	66.551		
5,000.00	4,845.66	4,741.66	4,741.66	25.72	95.00	3.41	-5,394.48	6,463.20	7,360.07	7,246.72	113.35	64.931		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,837.15	4,837.15	26.36	96.92	3.42	-5,394.48	6,463.20	7,330.44	7,214.77	115.67	63.374		
5,200.00	5,036.65	4,932.65	4,932.65	26.99	98.84	3.43	-5,394.48	6,463.20	7,300.81	7,182.82	117.98	61.879		
5,300.00	5,132.14	5,028.14	5,028.14	27.63	100.76	3.45	-5,394.48	6,463.20	7,271.18	7,150.88	120.30	60.442		
5,400.00	5,227.63	5,123.63	5,123.63	28.26	102.68	3.46	-5,394.48	6,463.20	7,241.55	7,118.93	122.62	59.058		
5,500.00	5,323.13	5,219.13	5,219.13	28.90	104.60	3.48	-5,394.48	6,463.20	7,211.92	7,086.98	124.93	57.726		
5,600.00	5,418.62	5,314.62	5,314.62	29.53	106.52	3.49	-5,394.48	6,463.20	7,182.29	7,055.04	127.25	56.442		
5,700.00	5,514.12	5,410.12	5,410.12	30.17	108.44	3.51	-5,394.48	6,463.20	7,152.66	7,023.09	129.57	55.203		
5,800.00	5,609.61	5,505.61	5,505.61	30.80	110.36	3.52	-5,394.48	6,463.20	7,123.03	6,991.14	131.89	54.009		
5,900.00	5,705.10	5,601.10	5,601.10	31.44	112.28	3.54	-5,394.48	6,463.20	7,093.40	6,959.20	134.20	52.855		
6,000.00	5,800.60	5,703.40	5,698.60	32.08	114.34	3.55	-5,394.48	6,463.20	7,063.77	6,927.11	136.66	51.689		
6,100.00	5,896.09	5,807.91	5,792.09	32.71	116.44	3.57	-5,394.48	6,463.20	7,034.15	6,894.99	139.16	50.548		
6,200.00	5,991.59	5,887.59	5,887.59	33.35	118.04	3.58	-5,394.48	6,463.20	7,004.52	6,863.36	141.16	49.621		
6,300.00	6,087.08	5,983.08	5,983.08	33.99	119.96	3.60	-5,394.48	6,463.20	6,974.89	6,831.41	143.48	48.613		
6,400.00	6,182.57	6,078.57	6,078.57	34.62	121.88	3.61	-5,394.48	6,463.20	6,945.27	6,799.47	145.80	47.636		
6,499.99	6,278.06	6,174.06	6,174.06	35.26	123.80	3.63	-5,394.48	6,463.20	6,915.65	6,767.53	148.12	46.691		
6,505.95	6,283.75	6,179.75	6,179.75	35.30	123.92	3.63	-5,394.48	6,463.20	6,913.88	6,765.63	148.25	46.635		
6,600.00	6,374.00	6,270.00	6,270.00	35.88	125.73	3.61	-5,394.48	6,463.20	6,887.49	6,737.05	150.44	45.782		
6,700.00	6,470.87	6,366.87	6,366.87	36.44	127.68	3.59	-5,394.48	6,463.20	6,862.70	6,709.92	152.78	44.919		
6,800.00	6,568.53	6,464.53	6,464.53	36.96	129.64	3.57	-5,394.48	6,463.20	6,841.29	6,686.17	155.12	44.102		
6,900.00	6,666.89	6,562.89	6,562.89	37.43	131.62	3.56	-5,394.48	6,463.20	6,823.30	6,665.83	157.47	43.330		
7,000.00	6,765.82	6,661.82	6,661.82	37.85	133.61	3.55	-5,394.48	6,463.20	6,808.75	6,648.92	159.83	42.601		
7,100.00	6,865.19	6,761.19	6,761.19	38.22	135.61	3.54	-5,394.48	6,463.20	6,797.65	6,635.47	162.18	41.915		
7,200.00	6,964.89	6,860.89	6,860.89	38.55	137.61	3.53	-5,394.48	6,463.20	6,790.02	6,625.50	164.52	41.271		
7,300.00	7,064.80	6,960.80	6,960.80	38.83	139.62	3.53	-5,394.48	6,463.20	6,785.87	6,619.01	166.86	40.667		
7,369.20	7,134.00	7,030.00	7,030.00	39.00	141.02	130.54	-5,394.48	6,463.20	6,785.04	6,616.57	168.47	40.274		
7,400.00	7,164.80	7,060.80	7,060.80	39.06	141.63	130.54	-5,394.48	6,463.20	6,785.04	6,615.85	169.18	40.105		
7,469.20	7,234.00	7,130.00	7,130.00	39.22	143.03	130.54	-5,394.48	6,463.20	6,785.04	6,614.26	170.78	39.729		
7,500.00	7,264.78	7,160.78	7,160.78	39.29	143.65	-49.17	-5,394.48	6,463.20	6,784.50	6,613.00	171.50	39.561		
7,550.00	7,314.53	7,210.53	7,210.53	39.44	144.65	-49.44	-5,394.48	6,463.20	6,781.32	6,608.66	172.66	39.276		
7,600.00	7,363.66	7,259.66	7,259.66	39.62	145.63	-49.96	-5,394.48	6,463.20	6,775.32	6,601.50	173.81	38.980		
7,650.00	7,411.81	7,307.81	7,307.81	39.82	146.60	-50.73	-5,394.48	6,463.20	6,766.56	6,591.60	174.95	38.676		
7,700.00	7,458.61	7,354.61	7,354.61	40.06	147.54	-51.76	-5,394.48	6,463.20	6,755.11	6,579.04	176.07	38.366		
7,750.00	7,503.69	7,400.31	7,399.69	40.32	148.46	-53.05	-5,394.48	6,463.20	6,741.09	6,563.93	177.17	38.050		
7,800.00	7,546.72	7,442.72	7,442.72	40.60	149.32	-54.62	-5,394.48	6,463.20	6,724.63	6,546.43	178.20	37.737		
7,850.00	7,587.38	7,483.38	7,483.38	40.92	150.13	-56.47	-5,394.48	6,463.20	6,705.86	6,526.67	179.20	37.422		
7,900.00	7,625.34	7,521.34	7,521.34	41.25	150.90	-58.60	-5,394.48	6,463.20	6,684.97	6,504.83	180.14	37.110		
7,950.00	7,660.33	7,556.33	7,556.33	41.61	151.60	-61.03	-5,394.48	6,463.20	6,662.14	6,481.11	181.03	36.801		
8,000.00	7,692.07	7,588.07	7,588.07	42.00	152.24	-63.75	-5,394.48	6,463.20	6,637.57	6,455.71	181.86	36.499		
8,050.00	7,720.33	7,616.33	7,616.33	42.40	152.81	-66.74	-5,394.48	6,463.20	6,611.48	6,428.86	182.62	36.204		
8,100.00	7,744.89	7,640.89	7,640.89	42.83	153.30	-69.98	-5,394.48	6,463.20	6,584.11	6,400.79	183.31	35.917		
8,150.00	7,765.56	7,661.56	7,661.56	43.27	153.72	-73.45	-5,394.48	6,463.20	6,555.67	6,371.74	183.93	35.642		
8,200.00	7,782.18	7,678.18	7,678.18	43.74	154.05	-77.10	-5,394.48	6,463.20	6,526.43	6,341.95	184.48	35.378		
8,250.00	7,794.63	7,709.37	7,690.63	44.22	154.68	-80.88	-5,394.48	6,463.20	6,496.62	6,311.29	185.33	35.055		
8,300.00	7,802.82	7,701.18	7,693.82	44.71	154.51	-84.71	-5,394.48	6,463.20	6,466.48	6,281.09	185.39	34.880		
8,350.00	7,806.68	7,702.68	7,702.68	45.21	154.54	-88.54	-5,394.48	6,463.20	6,436.26	6,250.60	185.66	34.667		
8,369.28	7,807.00	7,703.00	7,703.00	45.40	154.55	-90.00	-5,394.48	6,463.20	6,424.64	6,238.88	185.76	34.586		
8,400.00	7,807.00	7,703.00	7,703.00	45.72	154.55	-90.00	-5,394.48	6,463.20	6,406.19	6,220.28	185.91	34.458		
8,500.00	7,807.00	7,703.00	7,703.00	46.77	154.55	-90.00	-5,394.48	6,463.20	6,346.80	6,160.31	186.49	34.033		
8,600.00	7,807.00	7,703.00	7,703.00	47.86	154.55	-90.00	-5,394.48	6,463.20	6,288.44	6,101.27	187.17	33.597		
8,700.00	7,807.00	7,703.00	7,703.00	48.99	154.55	-90.00	-5,394.48	6,463.20	6,231.14	6,043.18	187.96	33.151		
8,800.00	7,806.99	7,702.99	7,702.99	50.16	154.55	-90.00	-5,394.48	6,463.20	6,174.93	5,986.07	188.86	32.696		
8,900.00	7,806.99	7,702.99	7,702.99	51.37	154.55	-90.00	-5,394.48	6,463.20	6,119.83	5,929.98	189.85	32.234		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,702.99	7,702.99	52.60	154.55	-90.00	-5,394.48	6,463.20	6,065.88	5,874.94	190.95	31.767		
9,100.00	7,806.99	7,702.99	7,702.99	53.87	154.55	-90.00	-5,394.48	6,463.20	6,013.12	5,820.98	192.14	31.296		
9,200.00	7,806.99	7,702.99	7,702.99	55.17	154.55	-90.00	-5,394.48	6,463.20	5,961.56	5,768.14	193.41	30.823		
9,300.00	7,806.99	7,702.99	7,702.99	56.49	154.55	-90.00	-5,394.48	6,463.20	5,911.24	5,716.46	194.78	30.349		
9,400.00	7,806.99	7,702.99	7,702.99	57.83	154.55	-90.00	-5,394.48	6,463.20	5,862.20	5,665.98	196.22	29.875		
9,500.00	7,806.99	7,702.99	7,702.99	59.20	154.55	-90.00	-5,394.48	6,463.20	5,814.47	5,616.72	197.75	29.403		
9,600.00	7,806.98	7,702.98	7,702.98	60.59	154.55	-90.00	-5,394.48	6,463.20	5,768.07	5,568.72	199.34	28.935		
9,700.00	7,806.98	7,702.98	7,702.98	62.00	154.55	-90.00	-5,394.48	6,463.20	5,723.04	5,522.03	201.01	28.472		
9,800.00	7,806.98	7,702.98	7,702.98	63.43	154.55	-90.00	-5,394.48	6,463.20	5,679.42	5,476.68	202.74	28.014		
9,900.00	7,806.98	7,702.98	7,702.98	64.87	154.55	-90.00	-5,394.48	6,463.20	5,637.24	5,432.71	204.53	27.562		
10,000.00	7,806.98	7,702.98	7,702.98	66.34	154.55	-90.00	-5,394.48	6,463.20	5,596.52	5,390.15	206.37	27.118		
10,100.00	7,806.98	7,702.98	7,702.98	67.81	154.55	-90.00	-5,394.48	6,463.20	5,557.31	5,349.04	208.27	26.683		
10,200.00	7,806.98	7,702.98	7,702.98	69.30	154.55	-90.00	-5,394.48	6,463.20	5,519.63	5,309.41	210.22	26.257		
10,300.00	7,806.98	7,702.98	7,702.98	70.81	154.55	-90.00	-5,394.48	6,463.20	5,483.51	5,271.31	212.20	25.841		
10,400.00	7,806.97	7,702.97	7,702.97	72.32	154.55	-90.00	-5,394.48	6,463.20	5,448.99	5,234.76	214.23	25.435		
10,500.00	7,806.97	7,702.97	7,702.97	73.85	154.55	-90.00	-5,394.48	6,463.20	5,416.10	5,199.80	216.30	25.040		
10,600.00	7,806.97	7,702.97	7,702.97	75.39	154.55	-90.00	-5,394.48	6,463.20	5,384.86	5,166.47	218.39	24.657		
10,700.00	7,806.97	7,702.97	7,702.97	76.94	154.55	-90.00	-5,394.48	6,463.20	5,355.31	5,134.79	220.52	24.285		
10,800.00	7,806.97	7,702.97	7,702.97	78.49	154.55	-90.00	-5,394.48	6,463.20	5,327.47	5,104.80	222.67	23.926		
10,900.00	7,806.97	7,702.97	7,702.97	80.06	154.55	-90.00	-5,394.48	6,463.20	5,301.37	5,076.54	224.84	23.579		
11,000.00	7,806.97	7,702.97	7,702.97	81.64	154.55	-90.00	-5,394.48	6,463.20	5,277.04	5,050.02	227.02	23.245		
11,100.00	7,806.97	7,702.97	7,702.97	83.22	154.55	-90.00	-5,394.48	6,463.20	5,254.50	5,025.28	229.22	22.923		
11,200.00	7,806.96	7,702.96	7,702.96	84.81	154.55	-90.00	-5,394.48	6,463.20	5,233.77	5,002.34	231.43	22.615		
11,300.00	7,806.96	7,702.96	7,702.96	86.41	154.55	-90.00	-5,394.48	6,463.20	5,214.88	4,981.24	233.65	22.320		
11,400.00	7,806.96	7,702.96	7,702.96	88.01	154.55	-90.00	-5,394.48	6,463.20	5,197.85	4,961.99	235.86	22.038		
11,500.00	7,806.96	7,702.96	7,702.96	89.63	154.55	-90.00	-5,394.48	6,463.20	5,182.69	4,944.61	238.08	21.769		
11,600.00	7,806.96	7,702.96	7,702.96	91.24	154.55	-90.00	-5,394.48	6,463.20	5,169.41	4,929.13	240.28	21.514		
11,700.00	7,806.96	7,702.96	7,702.96	92.87	154.55	-90.00	-5,394.48	6,463.20	5,158.05	4,915.56	242.48	21.272		
11,800.00	7,806.96	7,702.96	7,702.96	94.49	154.55	-90.00	-5,394.48	6,463.20	5,148.60	4,903.93	244.67	21.043		
11,900.00	7,806.95	7,702.95	7,702.95	96.13	154.55	-90.00	-5,394.48	6,463.20	5,141.08	4,894.23	246.84	20.827		
12,000.00	7,806.95	7,702.95	7,702.95	97.77	154.55	-90.00	-5,394.48	6,463.20	5,135.49	4,886.50	248.99	20.625		
12,100.00	7,806.95	7,702.95	7,702.95	99.41	154.55	-90.00	-5,394.48	6,463.20	5,131.85	4,880.73	251.12	20.436		
12,200.00	7,806.95	7,702.95	7,702.95	101.06	154.55	-90.00	-5,394.48	6,463.20	5,130.16	4,876.93	253.23	20.259		
12,236.94	7,806.95	7,702.95	7,702.95	101.67	154.55	-90.00	-5,394.48	6,463.20	5,130.02	4,876.03	254.00	20.197 CC		
12,300.00	7,806.95	7,702.95	7,702.95	102.71	154.55	-90.00	-5,394.48	6,463.20	5,130.41	4,875.11	255.30	20.095 ES		
12,400.00	7,806.95	7,702.95	7,702.95	104.37	154.55	-90.00	-5,394.48	6,463.20	5,132.61	4,875.27	257.35	19.944		
12,500.00	7,806.95	7,702.95	7,702.95	106.02	154.55	-90.00	-5,394.48	6,463.20	5,136.76	4,877.41	259.36	19.806		
12,600.00	7,806.95	7,702.95	7,702.95	107.69	154.55	-90.00	-5,394.48	6,463.20	5,142.85	4,881.52	261.33	19.680		
12,700.00	7,806.94	7,702.94	7,702.94	109.35	154.55	-90.00	-5,394.48	6,463.20	5,150.88	4,887.62	263.26	19.565		
12,800.00	7,806.94	7,702.94	7,702.94	111.02	154.55	-90.00	-5,394.48	6,463.20	5,160.83	4,895.67	265.16	19.463		
12,900.00	7,806.94	7,702.94	7,702.94	112.70	154.55	-90.00	-5,394.48	6,463.20	5,172.70	4,905.69	267.01	19.373		
13,000.00	7,806.94	7,702.94	7,702.94	114.37	154.55	-90.00	-5,394.48	6,463.20	5,186.46	4,917.65	268.81	19.294		
13,100.00	7,806.94	7,702.94	7,702.94	116.05	154.55	-90.00	-5,394.48	6,463.20	5,202.12	4,931.54	270.57	19.226		
13,200.00	7,806.94	7,702.94	7,702.94	117.74	154.55	-90.00	-5,394.48	6,463.20	5,219.64	4,947.35	272.28	19.170		
13,300.00	7,806.94	7,702.94	7,702.94	119.42	154.55	-90.00	-5,394.48	6,463.20	5,239.01	4,965.06	273.95	19.124		
13,400.00	7,806.94	7,702.94	7,702.94	121.11	154.55	-90.00	-5,394.48	6,463.20	5,260.21	4,984.65	275.56	19.089		
13,500.00	7,806.93	7,702.93	7,702.93	122.80	154.55	-90.00	-5,394.48	6,463.20	5,283.22	5,006.10	277.12	19.065		
13,600.00	7,806.93	7,702.93	7,702.93	124.49	154.55	-90.00	-5,394.48	6,463.20	5,308.02	5,029.39	278.63	19.050		
13,700.00	7,806.93	7,702.93	7,702.93	126.18	154.55	-90.00	-5,394.48	6,463.20	5,334.57	5,054.48	280.09	19.046 SF		
13,800.00	7,806.93	7,702.93	7,702.93	127.88	154.55	-90.00	-5,394.48	6,463.20	5,362.86	5,081.36	281.50	19.051		
13,900.00	7,806.93	7,702.93	7,702.93	129.58	154.55	-90.00	-5,394.48	6,463.20	5,392.86	5,110.00	282.86	19.066		
14,000.00	7,806.93	7,702.93	7,702.93	131.28	154.55	-90.00	-5,394.48	6,463.20	5,424.53	5,140.37	284.16	19.090		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,702.93	7,702.93	132.98	154.55	-90.00	-5,394.48	6,463.20	5,457.85	5,172.44	285.41	19.123		
14,200.00	7,806.93	7,702.93	7,702.93	134.68	154.55	-90.00	-5,394.48	6,463.20	5,492.79	5,206.17	286.62	19.164		
14,300.00	7,806.92	7,702.92	7,702.92	136.39	154.55	-90.00	-5,394.48	6,463.20	5,529.32	5,241.55	287.77	19.214		
14,400.00	7,806.92	7,702.92	7,702.92	138.10	154.55	-90.00	-5,394.48	6,463.20	5,567.40	5,278.53	288.87	19.273		
14,500.00	7,806.92	7,702.92	7,702.92	139.81	154.55	-90.00	-5,394.48	6,463.20	5,607.01	5,317.09	289.92	19.340		
14,600.00	7,806.92	7,702.92	7,702.92	141.52	154.55	-90.00	-5,394.48	6,463.20	5,648.11	5,357.18	290.93	19.414		
14,700.00	7,806.92	7,702.92	7,702.92	143.23	154.55	-90.00	-5,394.48	6,463.20	5,690.68	5,398.79	291.89	19.496		
14,800.00	7,806.92	7,702.92	7,702.92	144.94	154.55	-90.00	-5,394.48	6,463.20	5,734.67	5,441.87	292.80	19.586		
14,900.00	7,806.92	7,702.92	7,702.92	146.66	154.55	-90.00	-5,394.48	6,463.20	5,780.05	5,486.39	293.67	19.682		
15,000.00	7,806.92	7,702.92	7,702.92	148.37	154.55	-90.00	-5,394.48	6,463.20	5,826.80	5,532.31	294.49	19.786		
15,100.00	7,806.91	7,702.91	7,702.91	150.09	154.55	-90.00	-5,394.48	6,463.20	5,874.88	5,579.61	295.27	19.897		
15,200.00	7,806.91	7,702.91	7,702.91	151.81	154.55	-90.00	-5,394.48	6,463.20	5,924.26	5,628.25	296.01	20.014		
15,300.00	7,806.91	7,702.91	7,702.91	153.53	154.55	-90.00	-5,394.48	6,463.20	5,974.90	5,678.20	296.71	20.137		
15,400.00	7,806.91	7,702.91	7,702.91	155.25	154.55	-90.00	-5,394.48	6,463.20	6,026.78	5,729.41	297.37	20.267		
15,500.00	7,806.91	7,702.91	7,702.91	156.97	154.55	-90.00	-5,394.48	6,463.20	6,079.86	5,781.87	297.99	20.403		
15,600.00	7,806.91	7,702.91	7,702.91	158.70	154.55	-90.00	-5,394.48	6,463.20	6,134.11	5,835.54	298.57	20.545		
15,700.00	7,806.91	7,702.91	7,702.91	160.42	154.55	-90.00	-5,394.48	6,463.20	6,189.50	5,890.38	299.12	20.692		
15,800.00	7,806.91	7,702.91	7,702.91	162.15	154.55	-90.00	-5,394.48	6,463.20	6,246.00	5,946.36	299.64	20.845		
15,900.00	7,806.90	7,702.90	7,702.90	163.88	154.55	-90.00	-5,394.48	6,463.20	6,303.58	6,003.45	300.13	21.003		
16,000.00	7,806.90	7,702.90	7,702.90	165.60	154.55	-90.00	-5,394.48	6,463.20	6,362.21	6,061.63	300.58	21.167		
16,100.00	7,806.90	7,702.90	7,702.90	167.33	154.55	-90.00	-5,394.48	6,463.20	6,421.86	6,120.86	301.00	21.335		
16,200.00	7,806.90	7,702.90	7,702.90	169.06	154.55	-90.00	-5,394.48	6,463.20	6,482.51	6,181.11	301.40	21.508		
16,300.00	7,806.90	7,702.90	7,702.90	170.79	154.55	-90.00	-5,394.48	6,463.20	6,544.12	6,242.36	301.76	21.686		
16,400.00	7,806.90	7,702.90	7,702.90	172.52	154.55	-90.00	-5,394.48	6,463.20	6,606.68	6,304.57	302.11	21.869		
16,500.00	7,806.90	7,702.90	7,702.90	174.26	154.55	-90.00	-5,394.48	6,463.20	6,670.14	6,367.72	302.42	22.056		
16,600.00	7,806.89	7,702.89	7,702.89	175.99	154.55	-90.00	-5,394.48	6,463.20	6,734.49	6,431.78	302.71	22.247		
16,700.00	7,806.89	7,702.89	7,702.89	177.72	154.55	-90.00	-5,394.48	6,463.20	6,799.71	6,496.72	302.98	22.443		
16,800.00	7,806.89	7,702.89	7,702.89	179.46	154.55	-90.00	-5,394.48	6,463.20	6,865.76	6,562.53	303.23	22.642		
16,900.00	7,806.89	7,702.89	7,702.89	181.19	154.55	-90.00	-5,394.48	6,463.20	6,932.62	6,629.16	303.46	22.845		
17,000.00	7,806.89	7,702.89	7,702.89	182.93	154.55	-90.00	-5,394.48	6,463.20	7,000.27	6,696.61	303.66	23.053		
17,100.00	7,806.89	7,702.89	7,702.89	184.67	154.55	-90.00	-5,394.48	6,463.20	7,068.70	6,764.84	303.85	23.264		
17,200.00	7,806.89	7,702.89	7,702.89	186.40	154.55	-90.00	-5,394.48	6,463.20	7,137.86	6,833.84	304.02	23.478		
17,300.00	7,806.89	7,702.89	7,702.89	188.14	154.55	-90.00	-5,394.48	6,463.20	7,207.75	6,903.58	304.18	23.696		
17,400.00	7,806.88	7,702.88	7,702.88	189.88	154.55	-90.00	-5,394.48	6,463.20	7,278.34	6,974.03	304.31	23.917		
17,500.00	7,806.88	7,702.88	7,702.88	191.62	154.55	-90.00	-5,394.48	6,463.20	7,349.62	7,045.18	304.43	24.142		
17,600.00	7,806.88	7,702.88	7,702.88	193.36	154.55	-90.00	-5,394.48	6,463.20	7,421.56	7,117.02	304.54	24.370		
17,700.00	7,806.88	7,702.88	7,702.88	195.10	154.55	-90.00	-5,394.48	6,463.20	7,494.14	7,189.50	304.64	24.600		
17,800.00	7,806.88	7,702.88	7,702.88	196.84	154.55	-90.00	-5,394.48	6,463.20	7,567.35	7,262.63	304.72	24.834		
17,900.00	7,806.88	7,702.88	7,702.88	198.58	154.55	-90.00	-5,394.48	6,463.20	7,641.16	7,336.38	304.78	25.071		
18,000.00	7,806.88	7,702.88	7,702.88	200.33	154.55	-90.00	-5,394.48	6,463.20	7,715.57	7,410.73	304.84	25.310		
18,027.46	7,807.00	7,703.00	7,703.00	200.80	154.55	-90.00	-5,394.48	6,463.20	7,736.28	7,431.42	304.86	25.376		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	107.47	-1,737.39	5,521.11	5,788.39					
100.00	100.00	35.00	35.00	0.13	0.42	107.47	-1,737.39	5,521.11	5,788.02	5,787.47	0.55	N/A		
200.00	200.00	135.00	135.00	0.49	2.00	107.47	-1,737.39	5,521.11	5,788.02	5,785.53	2.49	2,322.177		
300.00	300.00	235.00	235.00	0.85	4.22	107.47	-1,737.39	5,521.11	5,788.02	5,782.96	5.07	1,142.375		
400.00	400.00	335.00	335.00	1.21	6.28	107.47	-1,737.39	5,521.11	5,788.02	5,780.53	7.49	772.684		
500.00	500.00	435.00	435.00	1.57	8.32	107.47	-1,737.39	5,521.11	5,788.02	5,778.14	9.89	585.425		
600.00	600.00	535.00	535.00	1.93	10.35	107.47	-1,737.39	5,521.11	5,788.02	5,775.75	12.27	471.637		
700.00	700.00	635.00	635.00	2.29	12.37	107.47	-1,737.39	5,521.11	5,788.02	5,773.37	14.65	395.027		
800.00	800.00	735.00	735.00	2.64	14.39	107.47	-1,737.39	5,521.11	5,788.02	5,770.99	17.03	339.887		
900.00	900.00	835.00	835.00	3.00	16.40	107.47	-1,737.39	5,521.11	5,788.02	5,768.62	19.40	298.285		
1,000.00	1,000.00	935.00	935.00	3.36	18.42	107.47	-1,737.39	5,521.11	5,788.02	5,766.24	21.78	265.771		
1,100.00	1,099.98	1,034.98	1,034.98	3.71	20.43	-19.55	-1,737.39	5,521.11	5,786.38	5,762.24	24.14	239.734		
1,200.00	1,199.84	1,134.84	1,134.84	4.04	22.44	-19.60	-1,737.39	5,521.11	5,781.45	5,754.96	26.48	218.310		
1,300.00	1,299.45	1,234.45	1,234.45	4.39	24.45	-19.69	-1,737.39	5,521.11	5,773.23	5,744.41	28.83	200.264		
1,400.00	1,398.70	1,333.70	1,333.70	4.74	26.45	-19.81	-1,737.39	5,521.11	5,761.75	5,730.58	31.17	184.847		
1,500.00	1,497.47	1,432.47	1,432.47	5.12	28.43	-19.96	-1,737.39	5,521.11	5,747.02	5,713.52	33.51	171.516		
1,600.00	1,595.62	1,530.62	1,530.62	5.51	30.41	-20.15	-1,737.39	5,521.11	5,729.06	5,693.23	35.84	159.866		
1,700.00	1,693.06	1,628.06	1,628.06	5.94	32.37	-20.38	-1,737.39	5,521.11	5,707.90	5,669.74	38.16	149.589		
1,800.00	1,789.64	1,724.64	1,724.64	6.39	34.31	-20.65	-1,737.39	5,521.11	5,683.56	5,643.09	40.47	140.447		
1,863.26	1,850.25	1,785.25	1,785.25	6.70	35.53	-20.84	-1,737.39	5,521.11	5,666.53	5,624.61	41.92	135.160		
1,900.00	1,885.34	1,820.34	1,820.34	6.89	36.24	-20.88	-1,737.39	5,521.11	5,656.29	5,613.52	42.77	132.253		
2,000.00	1,980.83	1,915.83	1,915.83	7.41	38.16	-20.98	-1,737.39	5,521.11	5,628.41	5,583.34	45.07	124.892		
2,100.00	2,076.33	2,011.33	2,011.33	7.95	40.08	-21.09	-1,737.39	5,521.11	5,600.55	5,553.18	47.37	118.228		
2,200.00	2,171.82	2,106.82	2,106.82	8.50	42.00	-21.20	-1,737.39	5,521.11	5,572.71	5,523.03	49.68	112.168		
2,300.00	2,267.32	2,202.32	2,202.32	9.07	43.92	-21.31	-1,737.39	5,521.11	5,544.89	5,492.89	52.00	106.636		
2,400.00	2,362.81	2,302.19	2,297.81	9.64	45.93	-21.42	-1,737.39	5,521.11	5,517.08	5,462.68	54.41	101.402		
2,500.00	2,458.30	2,406.70	2,393.30	10.22	48.03	-21.53	-1,737.39	5,521.11	5,489.30	5,432.39	56.92	96.447		
2,600.00	2,553.80	2,488.80	2,488.80	10.81	49.69	-21.65	-1,737.39	5,521.11	5,461.54	5,402.56	58.98	92.607		
2,700.00	2,649.29	2,584.29	2,584.29	11.41	51.61	-21.76	-1,737.39	5,521.11	5,433.79	5,372.49	61.31	88.630		
2,800.00	2,744.79	2,679.79	2,679.79	12.01	53.53	-21.88	-1,737.39	5,521.11	5,406.07	5,342.43	63.65	84.940		
2,900.00	2,840.28	2,775.28	2,775.28	12.61	55.45	-22.00	-1,737.39	5,521.11	5,378.37	5,312.39	65.99	81.508		
3,000.00	2,935.77	2,870.77	2,870.77	13.22	57.37	-22.11	-1,737.39	5,521.11	5,350.69	5,282.36	68.33	78.309		
3,100.00	3,031.27	2,966.27	2,966.27	13.83	59.29	-22.23	-1,737.39	5,521.11	5,323.03	5,252.36	70.67	75.319		
3,200.00	3,126.76	3,061.76	3,061.76	14.44	61.21	-22.35	-1,737.39	5,521.11	5,295.40	5,222.38	73.02	72.519		
3,300.00	3,222.26	3,157.26	3,157.26	15.06	63.13	-22.48	-1,737.39	5,521.11	5,267.78	5,192.41	75.37	69.892		
3,400.00	3,317.75	3,252.75	3,252.75	15.68	65.05	-22.60	-1,737.39	5,521.11	5,240.19	5,162.47	77.72	67.422		
3,500.00	3,413.25	3,348.25	3,348.25	16.30	66.97	-22.72	-1,737.39	5,521.11	5,212.62	5,132.54	80.08	65.095		
3,600.00	3,508.74	3,443.74	3,443.74	16.92	68.89	-22.85	-1,737.39	5,521.11	5,185.08	5,102.64	82.43	62.901		
3,700.00	3,604.23	3,539.23	3,539.23	17.54	70.81	-22.98	-1,737.39	5,521.11	5,157.55	5,072.76	84.79	60.827		
3,800.00	3,699.73	3,634.73	3,634.73	18.17	72.73	-23.11	-1,737.39	5,521.11	5,130.06	5,042.90	87.15	58.864		
3,900.00	3,795.22	3,730.22	3,730.22	18.79	74.65	-23.24	-1,737.39	5,521.11	5,102.58	5,013.07	89.51	57.004		
4,000.00	3,890.72	3,825.72	3,825.72	19.42	76.58	-23.37	-1,737.39	5,521.11	5,075.13	4,983.26	91.88	55.239		
4,100.00	3,986.21	3,921.21	3,921.21	20.05	78.50	-23.50	-1,737.39	5,521.11	5,047.71	4,953.47	94.24	53.562		
4,200.00	4,081.70	4,016.70	4,016.70	20.67	80.42	-23.63	-1,737.39	5,521.11	5,020.31	4,923.70	96.61	51.966		
4,300.00	4,177.20	4,112.20	4,112.20	21.30	82.34	-23.77	-1,737.39	5,521.11	4,992.94	4,893.96	98.98	50.446		
4,400.00	4,272.69	4,207.69	4,207.69	21.93	84.26	-23.91	-1,737.39	5,521.11	4,965.60	4,864.25	101.35	48.996		
4,500.00	4,368.19	4,303.19	4,303.19	22.56	86.18	-24.04	-1,737.39	5,521.11	4,938.28	4,834.56	103.72	47.612		
4,600.00	4,463.68	4,401.32	4,398.68	23.19	88.15	-24.18	-1,737.39	5,521.11	4,910.99	4,804.84	106.15	46.267		
4,700.00	4,559.17	4,505.83	4,494.17	23.83	90.25	-24.33	-1,737.39	5,521.11	4,883.72	4,775.02	108.70	44.928		
4,800.00	4,654.67	4,589.67	4,589.67	24.46	91.94	-24.47	-1,737.39	5,521.11	4,856.49	4,745.65	110.84	43.814		
4,900.00	4,750.16	4,685.16	4,685.16	25.09	93.86	-24.61	-1,737.39	5,521.11	4,829.28	4,716.06	113.22	42.653		
5,000.00	4,845.66	4,780.66	4,780.66	25.72	95.78	-24.76	-1,737.39	5,521.11	4,802.11	4,686.50	115.60	41.540		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,876.15	4,876.15	26.36	97.70	-24.91	-1,737.39	5,521.11	4,774.96	4,656.98	117.98	40.471		
5,200.00	5,036.65	4,971.65	4,971.65	26.99	99.62	-25.06	-1,737.39	5,521.11	4,747.84	4,627.48	120.37	39.445		
5,300.00	5,132.14	5,067.14	5,067.14	27.63	101.54	-25.21	-1,737.39	5,521.11	4,720.76	4,598.01	122.75	38.458		
5,400.00	5,227.63	5,145.00	5,145.00	28.26	103.10	-25.33	-1,737.39	5,521.11	4,693.74	4,568.95	124.79	37.612		
5,500.00	5,323.13	5,145.00	5,145.00	28.90	103.10	-25.33	-1,737.39	5,521.11	4,668.05	4,542.75	125.30	37.255		
5,600.00	5,418.62	5,145.00	5,145.00	29.53	103.10	-25.33	-1,737.39	5,521.11	4,644.38	4,518.62	125.76	36.931		
5,700.00	5,514.12	5,145.00	5,145.00	30.17	103.10	-25.33	-1,737.39	5,521.11	4,622.75	4,496.58	126.17	36.640		
5,800.00	5,609.61	5,145.00	5,145.00	30.80	103.10	-25.33	-1,737.39	5,521.11	4,603.19	4,476.67	126.53	36.381		
5,900.00	5,705.10	5,145.00	5,145.00	31.44	103.10	-25.33	-1,737.39	5,521.11	4,585.73	4,458.90	126.83	36.156		
6,000.00	5,800.60	5,145.00	5,145.00	32.08	103.10	-25.33	-1,737.39	5,521.11	4,570.39	4,443.31	127.08	35.964		
6,100.00	5,896.09	5,145.00	5,145.00	32.71	103.10	-25.33	-1,737.39	5,521.11	4,557.19	4,429.92	127.28	35.805		
6,200.00	5,991.59	5,145.00	5,145.00	33.35	103.10	-25.33	-1,737.39	5,521.11	4,546.16	4,418.75	127.41	35.680		
6,300.00	6,087.08	5,145.00	5,145.00	33.99	103.10	-25.33	-1,737.39	5,521.11	4,537.30	4,409.81	127.49	35.588		
6,400.00	6,182.57	5,145.00	5,145.00	34.62	103.10	-25.33	-1,737.39	5,521.11	4,530.64	4,403.12	127.51	35.530		
6,499.99	6,278.06	5,145.00	5,145.00	35.26	103.10	-25.33	-1,737.39	5,521.11	4,526.17	4,398.69	127.48	35.506		
6,505.95	6,283.75	5,145.00	5,145.00	35.30	103.10	-25.33	-1,737.39	5,521.11	4,525.97	4,398.50	127.47	35.506		
6,566.22	6,341.48	5,145.00	5,145.00	35.67	103.10	-25.33	-1,737.39	5,521.11	4,525.00	4,397.59	127.41	35.515 CC, ES		
6,600.00	6,374.00	5,145.00	5,145.00	35.88	103.10	-25.33	-1,737.39	5,521.11	4,525.31	4,397.94	127.37	35.529		
6,700.00	6,470.87	5,145.00	5,145.00	36.44	103.10	-25.37	-1,737.39	5,521.11	4,529.80	4,402.62	127.18	35.618		
6,800.00	6,568.53	5,145.00	5,145.00	36.96	103.10	-25.45	-1,737.39	5,521.11	4,539.63	4,412.72	126.91	35.772		
6,900.00	6,666.89	5,145.00	5,145.00	37.43	103.10	-25.58	-1,737.39	5,521.11	4,554.76	4,428.20	126.56	35.990		
7,000.00	6,765.82	5,145.00	5,145.00	37.85	103.10	-25.76	-1,737.39	5,521.11	4,575.10	4,448.97	126.13	36.272		
7,100.00	6,865.19	5,145.00	5,145.00	38.22	103.10	-25.99	-1,737.39	5,521.11	4,600.58	4,474.94	125.64	36.617		
7,200.00	6,964.89	5,145.00	5,145.00	38.55	103.10	-26.28	-1,737.39	5,521.11	4,631.07	4,505.98	125.09	37.022		
7,300.00	7,064.80	5,145.00	5,145.00	38.83	103.10	-26.61	-1,737.39	5,521.11	4,666.44	4,541.96	124.48	37.487		
7,369.20	7,134.00	5,145.00	5,145.00	39.06	103.10	100.13	-1,737.39	5,521.11	4,693.69	4,569.67	124.03	37.845		
7,400.00	7,164.80	5,145.00	5,145.00	39.06	103.10	100.13	-1,737.39	5,521.11	4,706.40	4,582.59	123.81	38.012		
7,469.20	7,234.00	5,145.00	5,145.00	39.22	103.10	100.13	-1,737.39	5,521.11	4,735.56	4,612.24	123.33	38.399		
7,500.00	7,264.78	5,145.00	5,145.00	39.29	103.10	-78.11	-1,737.39	5,521.11	4,748.67	4,625.55	123.11	38.572		
7,550.00	7,314.53	5,145.00	5,145.00	39.44	103.10	-75.86	-1,737.39	5,521.11	4,769.61	4,646.82	122.79	38.843		
7,600.00	7,363.66	5,145.00	5,145.00	39.62	103.10	-73.71	-1,737.39	5,521.11	4,790.03	4,667.53	122.50	39.103		
7,650.00	7,411.81	5,145.00	5,145.00	39.82	103.10	-71.66	-1,737.39	5,521.11	4,809.76	4,687.51	122.24	39.346		
7,700.00	7,458.61	5,145.00	5,145.00	40.06	103.10	-69.73	-1,737.39	5,521.11	4,828.66	4,706.64	122.02	39.572		
7,750.00	7,503.69	5,145.00	5,145.00	40.32	103.10	-67.94	-1,737.39	5,521.11	4,846.61	4,724.77	121.84	39.778		
7,800.00	7,546.72	5,145.00	5,145.00	40.60	103.10	-66.28	-1,737.39	5,521.11	4,863.48	4,741.77	121.71	39.959		
7,850.00	7,587.38	5,145.00	5,145.00	40.92	103.10	-64.78	-1,737.39	5,521.11	4,879.14	4,757.51	121.63	40.115		
7,900.00	7,625.34	5,145.00	5,145.00	41.25	103.10	-63.43	-1,737.39	5,521.11	4,893.51	4,771.90	121.60	40.241		
7,950.00	7,660.33	5,145.00	5,145.00	41.61	103.10	-62.24	-1,737.39	5,521.11	4,906.46	4,784.83	121.64	40.337		
8,000.00	7,692.07	5,145.00	5,145.00	42.00	103.10	-61.20	-1,737.39	5,521.11	4,917.93	4,796.20	121.73	40.400		
8,050.00	7,720.33	5,145.00	5,145.00	42.40	103.10	-60.32	-1,737.39	5,521.11	4,927.83	4,805.94	121.89	40.428		
8,100.00	7,744.89	5,145.00	5,145.00	42.83	103.10	-59.60	-1,737.39	5,521.11	4,936.10	4,813.99	122.12	40.421		
8,150.00	7,765.56	5,145.00	5,145.00	43.27	103.10	-59.02	-1,737.39	5,521.11	4,942.68	4,820.27	122.41	40.378		
8,200.00	7,782.18	5,145.00	5,145.00	43.74	103.10	-58.61	-1,737.39	5,521.11	4,947.53	4,824.76	122.77	40.299		
8,250.00	7,794.63	5,145.00	5,145.00	44.22	103.10	-58.34	-1,737.39	5,521.11	4,950.62	4,827.42	123.20	40.185		
8,300.00	7,802.82	5,145.00	5,145.00	44.71	103.10	-58.23	-1,737.39	5,521.11	4,951.92	4,828.24	123.69	40.036		
8,350.00	7,806.68	5,145.00	5,145.00	45.21	103.10	-58.27	-1,737.39	5,521.11	4,951.44	4,827.20	124.24	39.853		
8,369.28	7,807.00	5,145.00	5,145.00	45.40	103.10	-58.33	-1,737.39	5,521.11	4,950.77	4,826.30	124.47	39.775		
8,400.00	7,807.00	5,145.00	5,145.00	45.72	103.10	-58.33	-1,737.39	5,521.11	4,949.60	4,824.75	124.85	39.646		
8,500.00	7,807.00	5,145.00	5,145.00	46.77	103.10	-58.33	-1,737.39	5,521.11	4,947.08	4,820.97	126.12	39.226		
8,574.29	7,807.00	5,145.00	5,145.00	47.57	103.10	-58.33	-1,737.39	5,521.11	4,946.53	4,819.42	127.10	38.917		
8,600.00	7,807.00	5,145.00	5,145.00	47.86	103.10	-58.33	-1,737.39	5,521.11	4,946.59	4,819.14	127.45	38.812		
8,700.00	7,807.00	5,145.00	5,145.00	48.99	103.10	-58.33	-1,737.39	5,521.11	4,948.12	4,819.29	128.84	38.406		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,806.99	5,145.00	5,145.00	50.16	103.10	-58.33	-1,737.39	5,521.11	4,951.67	4,821.40	130.28	38.009		
8,900.00	7,806.99	5,145.00	5,145.00	51.37	103.10	-58.33	-1,737.39	5,521.11	4,957.24	4,825.49	131.75	37.625		
9,000.00	7,806.99	5,145.00	5,145.00	52.60	103.10	-58.33	-1,737.39	5,521.11	4,964.81	4,831.55	133.26	37.255		
9,100.00	7,806.99	5,145.00	5,145.00	53.87	103.10	-58.33	-1,737.39	5,521.11	4,974.38	4,839.58	134.80	36.901		
9,200.00	7,806.99	5,145.00	5,145.00	55.17	103.10	-58.33	-1,737.39	5,521.11	4,985.94	4,849.58	136.37	36.563		
9,300.00	7,806.99	5,145.00	5,145.00	56.49	103.10	-58.33	-1,737.39	5,521.11	4,999.48	4,861.53	137.94	36.243		
9,400.00	7,806.99	5,145.00	5,145.00	57.83	103.10	-58.33	-1,737.39	5,521.11	5,014.97	4,875.43	139.54	35.941		
9,500.00	7,806.99	5,145.00	5,145.00	59.20	103.10	-58.33	-1,737.39	5,521.11	5,032.40	4,891.27	141.13	35.657		
9,600.00	7,806.98	5,145.00	5,145.00	60.59	103.10	-58.33	-1,737.39	5,521.11	5,051.75	4,909.02	142.73	35.393		
9,700.00	7,806.98	5,145.00	5,145.00	62.00	103.10	-58.33	-1,737.39	5,521.11	5,073.00	4,928.67	144.34	35.147		
9,800.00	7,806.98	5,145.00	5,145.00	63.43	103.10	-58.33	-1,737.39	5,521.11	5,096.13	4,950.19	145.93	34.922		
9,900.00	7,806.98	5,145.00	5,145.00	64.87	103.10	-58.33	-1,737.39	5,521.11	5,121.10	4,973.58	147.52	34.715		
10,000.00	7,806.98	5,145.00	5,145.00	66.34	103.10	-58.33	-1,737.39	5,521.11	5,147.89	4,998.79	149.10	34.527		
10,100.00	7,806.98	5,145.00	5,145.00	67.81	103.10	-58.33	-1,737.39	5,521.11	5,176.48	5,025.82	150.66	34.359		
10,200.00	7,806.98	5,145.00	5,145.00	69.30	103.10	-58.33	-1,737.39	5,521.11	5,206.83	5,054.62	152.21	34.209		
10,300.00	7,806.98	5,145.00	5,145.00	70.81	103.10	-58.33	-1,737.39	5,521.11	5,238.91	5,085.18	153.73	34.078		
10,400.00	7,806.97	5,145.00	5,145.00	72.32	103.10	-58.33	-1,737.39	5,521.11	5,272.70	5,117.46	155.24	33.965		
10,500.00	7,806.97	5,145.00	5,145.00	73.85	103.10	-58.33	-1,737.39	5,521.11	5,308.15	5,151.43	156.73	33.869		
10,600.00	7,806.97	5,145.00	5,145.00	75.39	103.10	-58.33	-1,737.39	5,521.11	5,345.24	5,187.06	158.19	33.791		
10,700.00	7,806.97	5,145.00	5,145.00	76.94	103.10	-58.33	-1,737.39	5,521.11	5,383.94	5,224.31	159.62	33.729		
10,800.00	7,806.97	5,145.00	5,145.00	78.49	103.10	-58.33	-1,737.39	5,521.11	5,424.20	5,263.17	161.03	33.684		
10,900.00	7,806.97	5,145.00	5,145.00	80.06	103.10	-58.33	-1,737.39	5,521.11	5,465.99	5,303.58	162.41	33.655		
11,000.00	7,806.97	5,145.00	5,145.00	81.64	103.10	-58.33	-1,737.39	5,521.11	5,509.28	5,345.52	163.76	33.642 SF		
11,100.00	7,806.97	5,145.00	5,145.00	83.22	103.10	-58.33	-1,737.39	5,521.11	5,554.04	5,388.95	165.09	33.643		
11,200.00	7,806.96	5,145.00	5,145.00	84.81	103.10	-58.33	-1,737.39	5,521.11	5,600.22	5,433.84	166.38	33.659		
11,300.00	7,806.96	5,145.00	5,145.00	86.41	103.10	-58.33	-1,737.39	5,521.11	5,647.80	5,480.16	167.64	33.690		
11,400.00	7,806.96	5,145.00	5,145.00	88.01	103.10	-58.33	-1,737.39	5,521.11	5,696.73	5,527.86	168.87	33.734		
11,500.00	7,806.96	5,145.00	5,145.00	89.63	103.10	-58.33	-1,737.39	5,521.11	5,746.99	5,576.92	170.07	33.791		
11,600.00	7,806.96	5,145.00	5,145.00	91.24	103.10	-58.33	-1,737.39	5,521.11	5,798.54	5,627.29	171.25	33.861		
11,700.00	7,806.96	5,145.00	5,145.00	92.87	103.10	-58.33	-1,737.39	5,521.11	5,851.34	5,678.96	172.38	33.944		
11,800.00	7,806.96	5,145.00	5,145.00	94.49	103.10	-58.33	-1,737.39	5,521.11	5,905.36	5,731.87	173.49	34.038		
11,900.00	7,806.95	5,145.00	5,145.00	96.13	103.10	-58.33	-1,737.39	5,521.11	5,960.58	5,786.00	174.57	34.144		
12,000.00	7,806.95	5,145.00	5,145.00	97.77	103.10	-58.33	-1,737.39	5,521.11	6,016.94	5,841.32	175.62	34.261		
12,100.00	7,806.95	5,145.00	5,145.00	99.41	103.10	-58.33	-1,737.39	5,521.11	6,074.43	5,897.80	176.64	34.389		
12,200.00	7,806.95	5,145.00	5,145.00	101.06	103.10	-58.33	-1,737.39	5,521.11	6,133.02	5,955.39	177.63	34.527		
12,300.00	7,806.95	5,145.00	5,145.00	102.71	103.10	-58.33	-1,737.39	5,521.11	6,192.66	6,014.07	178.59	34.676		
12,400.00	7,806.95	5,145.00	5,145.00	104.37	103.10	-58.33	-1,737.39	5,521.11	6,253.33	6,073.82	179.52	34.834		
12,500.00	7,806.95	5,145.00	5,145.00	106.02	103.10	-58.33	-1,737.39	5,521.11	6,315.01	6,134.59	180.42	35.001		
12,600.00	7,806.95	5,145.00	5,145.00	107.69	103.10	-58.33	-1,737.39	5,521.11	6,377.65	6,196.36	181.30	35.178		
12,700.00	7,806.94	5,145.00	5,145.00	109.35	103.10	-58.33	-1,737.39	5,521.11	6,441.24	6,259.09	182.15	35.363		
12,800.00	7,806.94	5,145.00	5,145.00	111.02	103.10	-58.33	-1,737.39	5,521.11	6,505.75	6,322.78	182.97	35.556		
12,900.00	7,806.94	5,145.00	5,145.00	112.70	103.10	-58.33	-1,737.39	5,521.11	6,571.14	6,387.37	183.77	35.758		
13,000.00	7,806.94	5,145.00	5,145.00	114.37	103.10	-58.33	-1,737.39	5,521.11	6,637.40	6,452.86	184.54	35.967		
13,100.00	7,806.94	5,145.00	5,145.00	116.05	103.10	-58.33	-1,737.39	5,521.11	6,704.49	6,519.20	185.29	36.184		
13,200.00	7,806.94	5,145.00	5,145.00	117.74	103.10	-58.33	-1,737.39	5,521.11	6,772.39	6,586.38	186.01	36.408		
13,300.00	7,806.94	5,145.00	5,145.00	119.42	103.10	-58.33	-1,737.39	5,521.11	6,841.09	6,654.37	186.72	36.639		
13,400.00	7,806.94	5,145.00	5,145.00	121.11	103.10	-58.33	-1,737.39	5,521.11	6,910.54	6,723.15	187.40	36.877		
13,500.00	7,806.93	5,145.00	5,145.00	122.80	103.10	-58.33	-1,737.39	5,521.11	6,980.74	6,792.69	188.05	37.121		
13,600.00	7,806.93	5,145.00	5,145.00	124.49	103.10	-58.33	-1,737.39	5,521.11	7,051.66	6,862.97	188.69	37.371		
13,700.00	7,806.93	5,145.00	5,145.00	126.18	103.10	-58.33	-1,737.39	5,521.11	7,123.27	6,933.97	189.31	37.628		
13,800.00	7,806.93	5,145.00	5,145.00	127.88	103.10	-58.33	-1,737.39	5,521.11	7,195.57	7,005.66	189.90	37.890		
13,900.00	7,806.93	5,145.00	5,145.00	129.58	103.10	-58.33	-1,737.39	5,521.11	7,268.52	7,078.03	190.48	38.158		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	5,145.00	5,145.00	131.28	103.10	-58.33	-1,737.39	5,521.11	7,342.10	7,151.06	191.04	38.432		
14,100.00	7,806.93	5,145.00	5,145.00	132.98	103.10	-58.33	-1,737.39	5,521.11	7,416.31	7,224.72	191.58	38.711		
14,200.00	7,806.93	5,145.00	5,145.00	134.68	103.10	-58.33	-1,737.39	5,521.11	7,491.11	7,299.00	192.11	38.994		
14,300.00	7,806.92	5,145.00	5,145.00	136.39	103.10	-58.33	-1,737.39	5,521.11	7,566.50	7,373.88	192.61	39.283		
14,400.00	7,806.92	5,145.00	5,145.00	138.10	103.10	-58.33	-1,737.39	5,521.11	7,642.45	7,449.34	193.11	39.577		
14,500.00	7,806.92	5,145.00	5,145.00	139.81	103.10	-58.33	-1,737.39	5,521.11	7,718.95	7,525.37	193.58	39.875		
14,600.00	7,806.92	5,145.00	5,145.00	141.52	103.10	-58.33	-1,737.39	5,521.11	7,795.98	7,601.94	194.04	40.177		
14,700.00	7,806.92	5,145.00	5,145.00	143.23	103.10	-58.33	-1,737.39	5,521.11	7,873.53	7,679.04	194.49	40.484		
14,800.00	7,806.92	5,145.00	5,145.00	144.94	103.10	-58.33	-1,737.39	5,521.11	7,951.58	7,756.66	194.92	40.794		
14,900.00	7,806.92	5,145.00	5,145.00	146.66	103.10	-58.33	-1,737.39	5,521.11	8,030.11	7,834.78	195.34	41.109		
15,000.00	7,806.92	5,145.00	5,145.00	148.37	103.10	-58.33	-1,737.39	5,521.11	8,109.12	7,913.38	195.74	41.428		
15,100.00	7,806.91	5,145.00	5,145.00	150.09	103.10	-58.33	-1,737.39	5,521.11	8,188.59	7,992.46	196.13	41.750		
15,200.00	7,806.91	5,145.00	5,145.00	151.81	103.10	-58.33	-1,737.39	5,521.11	8,268.50	8,071.99	196.51	42.076		
15,300.00	7,806.91	5,145.00	5,145.00	153.53	103.10	-58.33	-1,737.39	5,521.11	8,348.85	8,151.97	196.88	42.405		
15,400.00	7,806.91	5,145.00	5,145.00	155.25	103.10	-58.33	-1,737.39	5,521.11	8,429.62	8,232.38	197.24	42.738		
15,500.00	7,806.91	5,145.00	5,145.00	156.97	103.10	-58.33	-1,737.39	5,521.11	8,510.79	8,313.21	197.59	43.074		
15,600.00	7,806.91	5,145.00	5,145.00	158.70	103.10	-58.33	-1,737.39	5,521.11	8,592.36	8,394.44	197.92	43.413		
15,700.00	7,806.91	5,145.00	5,145.00	160.42	103.10	-58.33	-1,737.39	5,521.11	8,674.32	8,476.08	198.25	43.755		
15,800.00	7,806.91	5,145.00	5,145.00	162.15	103.10	-58.33	-1,737.39	5,521.11	8,756.66	8,558.09	198.56	44.100		
15,900.00	7,806.90	5,145.00	5,145.00	163.88	103.10	-58.33	-1,737.39	5,521.11	8,839.35	8,640.48	198.87	44.448		
16,000.00	7,806.90	5,145.00	5,145.00	165.60	103.10	-58.33	-1,737.39	5,521.11	8,922.40	8,723.24	199.16	44.799		
16,100.00	7,806.90	5,145.00	5,145.00	167.33	103.10	-58.33	-1,737.39	5,521.11	9,005.80	8,806.35	199.45	45.152		
16,200.00	7,806.90	5,145.00	5,145.00	169.06	103.10	-58.33	-1,737.39	5,521.11	9,089.53	8,889.80	199.73	45.508		
16,300.00	7,806.90	5,145.00	5,145.00	170.79	103.10	-58.33	-1,737.39	5,521.11	9,173.59	8,973.58	200.00	45.867		
16,400.00	7,806.90	5,145.00	5,145.00	172.52	103.10	-58.33	-1,737.39	5,521.11	9,257.96	9,057.69	200.27	46.228		
16,500.00	7,806.90	5,145.00	5,145.00	174.26	103.10	-58.33	-1,737.39	5,521.11	9,342.64	9,142.12	200.52	46.591		
16,600.00	7,806.89	5,145.00	5,145.00	175.99	103.10	-58.33	-1,737.39	5,521.11	9,427.63	9,226.85	200.77	46.957		
16,700.00	7,806.89	5,145.00	5,145.00	177.72	103.10	-58.33	-1,737.39	5,521.11	9,512.90	9,311.89	201.02	47.324		
16,800.00	7,806.89	5,145.00	5,145.00	179.46	103.10	-58.33	-1,737.39	5,521.11	9,598.46	9,397.21	201.25	47.694		
16,900.00	7,806.89	5,145.00	5,145.00	181.19	103.10	-58.33	-1,737.39	5,521.11	9,684.30	9,482.82	201.48	48.066		
17,000.00	7,806.89	5,145.00	5,145.00	182.93	103.10	-58.33	-1,737.39	5,521.11	9,770.40	9,568.70	201.70	48.440		
17,100.00	7,806.89	5,145.00	5,145.00	184.67	103.10	-58.33	-1,737.39	5,521.11	9,856.77	9,654.85	201.92	48.816		
17,200.00	7,806.89	5,145.00	5,145.00	186.40	103.10	-58.33	-1,737.39	5,521.11	9,943.39	9,741.26	202.13	49.194		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	130.84	-3,969.86	4,592.99	6,071.43					
100.00	100.00	13.38	13.38	0.13	0.02	130.84	-3,969.85	4,593.00	6,070.86	6,070.71	0.15	N/A		
200.00	200.00	93.63	93.62	0.49	0.15	130.83	-3,969.69	4,593.39	6,071.10	6,070.46	0.64	9,453.295		
300.00	300.00	199.91	199.91	0.85	0.53	130.83	-3,969.28	4,594.24	6,071.45	6,070.06	1.38	4,394.683		
400.00	400.00	292.00	291.99	1.21	0.86	130.82	-3,968.69	4,595.06	6,071.72	6,069.65	2.07	2,933.228		
500.00	500.00	413.00	412.98	1.57	1.29	130.80	-3,967.84	4,596.15	6,071.93	6,069.07	2.86	2,121.695		
600.00	600.00	491.39	491.36	1.93	1.58	130.79	-3,967.21	4,596.99	6,072.21	6,068.71	3.50	1,734.296		
700.00	700.00	752.58	752.52	2.29	2.48	130.80	-3,966.61	4,595.61	6,072.23	6,067.47	4.76	1,276.084		
800.00	800.00	900.79	900.37	2.64	2.98	130.88	-3,970.70	4,586.51	6,069.28	6,063.66	5.62	1,080.293		
900.00	900.00	978.23	977.32	3.00	3.25	130.96	-3,975.60	4,579.44	6,066.50	6,060.25	6.25	970.778		
1,000.00	1,000.00	1,102.77	1,100.93	3.36	3.71	131.10	-3,984.38	4,567.00	6,063.55	6,056.48	7.06	858.720		
1,100.00	1,099.98	1,268.60	1,265.32	3.71	4.34	4.31	-3,996.52	4,548.90	6,058.48	6,050.45	8.03	754.013		
1,200.00	1,199.84	1,321.97	1,318.15	4.04	4.55	4.39	-4,000.78	4,542.70	6,049.68	6,041.10	8.58	704.827		
1,300.00	1,299.45	1,457.37	1,452.14	4.39	5.10	4.60	-4,011.78	4,526.56	6,037.44	6,027.98	9.46	637.912		
1,400.00	1,398.70	1,534.00	1,527.91	4.74	5.41	4.74	-4,018.22	4,517.15	6,021.67	6,011.55	10.12	595.017		
1,500.00	1,497.47	1,613.29	1,606.34	5.12	5.74	4.89	-4,024.97	4,507.67	6,002.83	5,992.04	10.79	556.240		
1,600.00	1,595.62	1,713.76	1,705.73	5.51	6.16	5.09	-4,033.50	4,495.76	5,980.70	5,969.14	11.56	517.550		
1,700.00	1,693.06	1,801.97	1,792.99	5.94	6.52	5.28	-4,041.06	4,485.23	5,955.22	5,942.94	12.27	485.196		
1,800.00	1,789.64	1,901.47	1,891.51	6.39	6.94	5.50	-4,049.11	4,473.86	5,926.49	5,913.45	13.04	454.467		
1,863.26	1,850.25	1,954.81	1,944.33	6.70	7.16	5.63	-4,053.38	4,467.77	5,906.60	5,893.11	13.49	437.889		
1,900.00	1,885.34	1,983.99	1,973.24	6.89	7.28	5.67	-4,055.67	4,464.53	5,894.71	5,880.97	13.74	428.983		
2,000.00	1,980.83	2,068.89	2,057.40	7.41	7.64	5.81	-4,062.14	4,455.43	5,862.51	5,848.07	14.44	405.851		
2,100.00	2,076.33	2,155.31	2,143.10	7.95	7.99	5.95	-4,068.61	4,446.40	5,830.45	5,815.29	15.16	384.586		
2,200.00	2,171.82	2,262.99	2,249.81	8.50	8.45	6.13	-4,077.16	4,434.74	5,798.47	5,782.50	15.97	363.096		
2,300.00	2,267.32	2,398.27	2,383.74	9.07	9.02	6.37	-4,087.96	4,419.00	5,765.99	5,749.09	16.90	341.192		
2,400.00	2,262.81	2,495.95	2,480.42	9.64	9.43	6.55	-4,095.52	4,407.34	5,733.20	5,715.51	17.68	324.249		
2,500.00	2,458.30	2,550.74	2,534.65	10.22	9.67	6.65	-4,099.95	4,400.88	5,700.74	5,682.44	18.29	311.615		
2,600.00	2,553.80	2,612.82	2,596.08	10.81	9.93	6.77	-4,105.30	4,393.72	5,668.87	5,649.93	18.94	299.323		
2,700.00	2,649.29	2,682.79	2,665.43	11.41	10.23	6.89	-4,111.05	4,386.42	5,637.53	5,617.91	19.62	287.376		
2,800.00	2,744.79	2,805.10	2,786.75	12.01	10.74	7.10	-4,120.34	4,373.91	5,605.93	5,585.43	20.50	273.441		
2,900.00	2,840.28	2,876.33	2,857.33	12.61	11.04	7.23	-4,126.15	4,366.40	5,574.56	5,553.37	21.19	263.087		
3,000.00	2,935.77	2,974.30	2,954.36	13.22	11.46	7.42	-4,134.64	4,355.78	5,543.39	5,521.40	21.99	252.091		
3,100.00	3,031.27	3,107.28	3,086.06	13.83	12.02	7.67	-4,145.75	4,341.17	5,511.99	5,489.06	22.93	240.371		
3,200.00	3,126.76	3,216.66	3,194.33	14.44	12.49	7.89	-4,154.61	4,328.31	5,479.91	5,456.13	23.78	230.421		
3,300.00	3,222.26	3,293.31	3,270.22	15.06	12.82	8.04	-4,160.74	4,319.49	5,448.01	5,423.51	24.50	222.323		
3,400.00	3,317.75	3,400.00	3,383.79	15.68	13.28	8.27	-4,169.68	4,306.56	5,416.19	5,390.85	25.34	213.718		
3,500.00	3,413.25	3,499.68	3,474.58	16.30	13.71	8.45	-4,176.81	4,295.67	5,384.00	5,357.84	26.16	205.780		
3,600.00	3,508.74	3,581.50	3,555.53	16.92	14.06	8.63	-4,183.72	4,285.98	5,352.30	5,325.39	26.92	198.847		
3,700.00	3,604.23	3,675.25	3,648.32	17.54	14.46	8.82	-4,191.35	4,275.00	5,320.57	5,292.86	27.72	191.974		
3,800.00	3,699.73	3,744.51	3,716.98	18.17	14.76	8.96	-4,196.56	4,267.52	5,289.12	5,260.70	28.42	186.123		
3,900.00	3,795.22	3,796.93	3,768.96	18.79	14.98	9.06	-4,200.73	4,262.16	5,258.35	5,229.30	29.06	180.977		
4,000.00	3,890.72	3,931.70	3,902.48	19.42	15.55	9.34	-4,212.12	4,247.93	5,227.80	5,197.79	30.01	174.197		
4,100.00	3,986.21	4,005.04	3,975.15	20.05	15.86	9.50	-4,218.11	4,240.05	5,196.96	5,166.22	30.74	169.086		
4,200.00	4,081.70	4,109.39	4,078.68	20.67	16.30	9.71	-4,226.04	4,229.66	5,166.29	5,134.72	31.57	163.645		
4,300.00	4,177.20	4,245.09	4,213.24	21.30	16.87	9.99	-4,236.02	4,215.26	5,135.06	5,102.53	32.52	157.890		
4,400.00	4,272.69	4,340.57	4,307.81	21.93	17.28	10.20	-4,243.33	4,204.28	5,103.54	5,070.20	33.33	153.102		
4,500.00	4,368.19	4,422.50	4,389.06	22.56	17.63	10.38	-4,249.15	4,195.47	5,072.19	5,038.10	34.09	148.773		
4,600.00	4,463.68	4,486.00	4,452.07	23.19	17.89	10.51	-4,253.57	4,188.99	5,041.20	5,006.42	34.78	144.925		
4,700.00	4,559.17	4,544.98	4,510.58	23.83	18.14	10.64	-4,258.06	4,183.11	5,010.88	4,975.42	35.46	141.297		
4,800.00	4,654.67	4,599.83	4,564.95	24.46	18.37	10.76	-4,262.90	4,177.71	4,981.44	4,945.31	36.13	137.881		
4,900.00	4,750.16	4,666.51	4,631.06	25.09	18.65	10.91	-4,269.02	4,171.48	4,952.66	4,915.82	36.84	134.438		
5,000.00	4,845.66	4,815.27	4,778.60	25.72	19.27	11.24	-4,282.03	4,157.74	4,923.72	4,885.87	37.85	130.092		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,938.62	4,901.00	26.36	19.79	11.51	-4,291.70	4,145.89	4,893.95	4,855.19	38.76	126.257		
5,200.00	5,036.65	5,041.81	5,003.28	26.99	20.23	11.76	-4,300.10	4,135.04	4,863.90	4,824.29	39.61	122.792		
5,300.00	5,132.14	5,141.50	5,102.11	27.63	20.65	11.99	-4,307.92	4,124.66	4,833.77	4,793.32	40.45	119.509		
5,400.00	5,227.63	5,285.13	5,244.65	28.26	21.25	12.32	-4,318.22	4,110.27	4,803.65	4,762.22	41.43	115.955		
5,500.00	5,323.13	5,425.52	5,383.95	28.90	21.83	12.65	-4,326.56	4,094.93	4,771.92	4,729.52	42.39	112.568		
5,600.00	5,418.62	5,511.82	5,469.48	29.53	22.20	12.86	-4,332.00	4,084.87	4,740.14	4,696.95	43.18	109.766		
5,700.00	5,514.12	5,615.60	5,572.42	30.17	22.63	13.11	-4,338.06	4,073.18	4,708.35	4,664.32	44.03	106.930		
5,800.00	5,609.61	5,690.06	5,646.35	30.80	22.94	13.29	-4,342.07	4,065.18	4,676.64	4,631.86	44.78	104.432		
5,900.00	5,705.10	5,756.00	5,711.83	31.44	23.21	13.45	-4,345.97	4,058.46	4,645.65	4,600.15	45.51	102.089		
6,000.00	5,800.60	5,813.16	5,768.59	32.08	23.45	13.59	-4,349.73	4,052.81	4,615.36	4,569.16	46.20	99.890		
6,100.00	5,896.09	5,898.99	5,853.75	32.71	23.81	13.80	-4,355.98	4,044.18	4,585.60	4,538.60	47.00	97.561		
6,200.00	5,991.59	5,998.38	5,952.30	33.35	24.22	14.06	-4,363.44	4,033.72	4,555.80	4,507.95	47.85	95.212		
6,300.00	6,087.08	6,091.51	6,044.79	33.99	24.61	14.29	-4,369.69	4,024.77	4,526.06	4,477.39	48.67	92.999		
6,400.00	6,182.57	6,181.60	6,134.42	34.62	24.97	14.50	-4,374.78	4,017.33	4,496.41	4,446.95	49.46	90.902		
6,499.99	6,278.06	6,268.06	6,220.57	35.26	25.30	14.69	-4,379.04	4,011.16	4,466.96	4,416.72	50.24	88.912		
6,505.95	6,283.75	6,273.18	6,225.67	35.30	25.32	14.70	-4,379.28	4,010.82	4,465.22	4,414.93	50.29	88.796		
6,600.00	6,374.00	6,347.86	6,300.12	35.88	25.60	14.71	-4,382.63	4,006.14	4,439.19	4,388.20	50.99	87.064		
6,700.00	6,470.87	6,422.00	6,374.05	36.44	25.88	14.72	-4,386.25	4,001.83	4,415.26	4,363.56	51.71	85.390		
6,800.00	6,568.53	6,491.82	6,443.70	36.96	26.14	14.73	-4,389.71	3,998.35	4,395.20	4,342.80	52.40	83.881		
6,900.00	6,666.89	6,590.16	6,541.92	37.43	26.48	14.76	-4,393.26	3,995.49	4,378.76	4,325.63	53.13	82.416		
7,000.00	6,765.82	6,690.03	6,641.78	37.85	26.80	14.76	-4,394.76	3,995.10	4,365.58	4,311.75	53.82	81.108		
7,100.00	6,865.19	6,811.40	6,763.14	38.22	27.18	14.77	-4,395.94	3,995.01	4,355.54	4,301.01	54.53	79.871		
7,200.00	6,964.89	6,922.14	6,873.88	38.55	27.50	14.76	-4,396.05	3,995.32	4,348.40	4,293.21	55.19	78.795		
7,300.00	7,064.80	7,024.20	6,975.94	38.83	27.81	14.75	-4,396.18	3,995.44	4,344.54	4,288.72	55.82	77.837		
7,363.20	7,127.99	7,084.44	7,036.19	38.98	28.00	14.75	-4,396.29	3,995.43	4,343.83	4,287.63	56.20	77.294		
7,369.20	7,134.00	7,089.72	7,041.46	39.00	28.01	141.76	-4,396.31	3,995.43	4,343.83	4,287.60	56.23	77.245		
7,400.00	7,164.80	7,116.76	7,068.50	39.06	28.10	141.76	-4,396.40	3,995.42	4,343.91	4,287.50	56.41	77.000		
7,469.20	7,234.00	7,183.96	7,135.70	39.22	28.31	141.76	-4,396.73	3,995.42	4,344.17	4,287.34	56.83	76.438		
7,500.00	7,264.78	7,217.81	7,169.54	39.29	28.42	-37.94	-4,396.89	3,995.38	4,343.61	4,286.59	57.03	76.166		
7,550.00	7,314.53	7,272.07	7,223.81	39.44	28.59	-38.21	-4,397.15	3,995.26	4,339.89	4,282.55	57.34	75.681		
7,600.00	7,363.66	7,325.17	7,276.91	39.62	28.77	-38.73	-4,397.37	3,995.09	4,332.73	4,275.07	57.66	75.148		
7,650.00	7,411.81	7,377.31	7,329.05	39.82	28.93	-39.53	-4,397.55	3,994.89	4,322.18	4,264.22	57.96	74.573		
7,700.00	7,458.61	7,428.02	7,379.76	40.06	29.10	-40.61	-4,397.69	3,994.67	4,308.34	4,250.09	58.25	73.962		
7,750.00	7,503.69	7,477.29	7,429.02	40.32	29.26	-42.00	-4,397.82	3,994.40	4,291.35	4,232.82	58.53	73.319		
7,800.00	7,546.72	7,524.46	7,476.19	40.60	29.42	-43.72	-4,397.98	3,994.02	4,271.36	4,212.56	58.79	72.651		
7,850.00	7,587.38	7,557.30	7,509.03	40.92	29.53	-45.72	-4,398.13	3,993.71	4,248.59	4,189.57	59.01	71.992		
7,900.00	7,625.34	7,585.49	7,537.22	41.25	29.62	-48.06	-4,398.33	3,993.47	4,223.33	4,164.11	59.21	71.322		
7,950.00	7,660.33	7,611.61	7,563.34	41.61	29.71	-50.79	-4,398.58	3,993.27	4,195.78	4,136.38	59.40	70.639		
8,000.00	7,692.07	7,635.47	7,587.19	42.00	29.78	-53.95	-4,398.85	3,993.10	4,166.18	4,106.61	59.56	69.944		
8,050.00	7,720.33	7,660.00	7,611.72	42.40	29.87	-57.58	-4,399.18	3,992.95	4,134.75	4,075.03	59.72	69.234		
8,100.00	7,744.89	7,678.67	7,630.39	42.83	29.93	-61.63	-4,399.44	3,992.85	4,101.75	4,041.89	59.85	68.529		
8,150.00	7,765.56	7,697.56	7,649.28	43.27	29.99	-66.16	-4,399.69	3,992.80	4,067.43	4,007.45	59.98	67.814		
8,200.00	7,782.18	7,712.81	7,664.53	43.74	30.04	-71.08	-4,399.88	3,992.78	4,032.09	3,972.00	60.09	67.101		
8,250.00	7,794.63	7,724.32	7,676.04	44.22	30.07	-76.30	-4,400.01	3,992.78	3,996.00	3,935.82	60.19	66.391		
8,300.00	7,802.82	7,732.03	7,683.75	44.71	30.10	-81.70	-4,400.09	3,992.79	3,959.48	3,899.21	60.28	65.687		
8,350.00	7,806.68	7,735.90	7,687.62	45.21	30.11	-87.15	-4,400.14	3,992.80	3,922.81	3,862.46	60.36	64.991		
8,369.28	7,807.00	7,736.36	7,688.08	45.40	30.11	-89.23	-4,400.14	3,992.80	3,908.70	3,848.31	60.39	64.726		
8,400.00	7,807.00	7,736.65	7,688.37	45.72	30.11	-89.23	-4,400.14	3,992.80	3,886.29	3,825.85	60.44	64.299		
8,500.00	7,807.00	7,737.57	7,689.29	46.77	30.11	-89.25	-4,400.15	3,992.81	3,814.14	3,753.46	60.68	62.852		
8,600.00	7,807.00	7,738.49	7,690.20	47.86	30.12	-89.27	-4,400.16	3,992.81	3,743.28	3,682.23	61.05	61.315		
8,700.00	7,807.00	7,739.39	7,691.11	48.99	30.12	-89.29	-4,400.17	3,992.81	3,673.77	3,612.22	61.55	59.692		
8,800.00	7,806.99	7,740.29	7,692.01	50.16	30.12	-89.31	-4,400.18	3,992.81	3,605.69	3,543.51	62.18	57.990		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,741.18	7,692.90	51.37	30.13	-89.33	-4,400.19	3,992.81	3,539.13	3,476.18	62.95	56.219		
9,000.00	7,806.99	7,742.07	7,693.78	52.60	30.13	-89.35	-4,400.20	3,992.82	3,474.18	3,410.30	63.87	54.392		
9,100.00	7,806.99	7,742.94	7,694.66	53.87	30.13	-89.37	-4,400.21	3,992.82	3,410.91	3,345.97	64.94	52.522		
9,200.00	7,806.99	7,743.81	7,695.53	55.17	30.13	-89.39	-4,400.22	3,992.82	3,349.44	3,283.28	66.16	50.625		
9,300.00	7,806.99	7,744.67	7,696.39	56.49	30.14	-89.41	-4,400.23	3,992.82	3,289.86	3,222.33	67.53	48.719		
9,400.00	7,806.99	7,745.52	7,697.24	57.83	30.14	-89.43	-4,400.23	3,992.83	3,232.28	3,163.24	69.04	46.819		
9,500.00	7,806.99	7,746.37	7,698.09	59.20	30.14	-89.44	-4,400.24	3,992.83	3,176.80	3,106.11	70.69	44.940		
9,600.00	7,806.98	7,747.21	7,698.92	60.59	30.15	-89.46	-4,400.25	3,992.83	3,123.54	3,051.06	72.47	43.098		
9,700.00	7,806.98	7,748.04	7,699.76	62.00	30.15	-89.48	-4,400.26	3,992.84	3,072.60	2,998.22	74.39	41.306		
9,800.00	7,806.98	7,748.86	7,700.58	63.43	30.15	-89.50	-4,400.27	3,992.84	3,024.12	2,947.70	76.42	39.573		
9,900.00	7,806.98	7,749.68	7,701.40	64.87	30.15	-89.51	-4,400.28	3,992.84	2,978.21	2,899.65	78.56	37.910		
10,000.00	7,806.98	7,750.49	7,702.21	66.34	30.16	-89.53	-4,400.28	3,992.84	2,934.99	2,854.19	80.80	36.324		
10,100.00	7,806.98	7,751.29	7,703.01	67.81	30.16	-89.55	-4,400.29	3,992.85	2,894.58	2,811.45	83.13	34.820		
10,200.00	7,806.98	7,752.09	7,703.81	69.30	30.16	-89.57	-4,400.30	3,992.85	2,857.10	2,771.56	85.53	33.403		
10,300.00	7,806.98	7,752.88	7,704.60	70.81	30.16	-89.58	-4,400.31	3,992.85	2,822.66	2,734.66	88.00	32.075		
10,400.00	7,806.97	7,755.00	7,706.72	72.32	30.17	-89.63	-4,400.33	3,992.86	2,791.39	2,700.87	90.52	30.837		
10,500.00	7,806.97	7,755.00	7,706.72	73.85	30.17	-89.63	-4,400.33	3,992.86	2,763.37	2,670.31	93.07	29.692		
10,600.00	7,806.97	7,755.00	7,706.72	75.39	30.17	-89.63	-4,400.33	3,992.86	2,738.73	2,643.10	95.63	28.637		
10,700.00	7,806.97	7,755.00	7,706.72	76.94	30.17	-89.63	-4,400.33	3,992.86	2,717.55	2,619.34	98.20	27.672		
10,800.00	7,806.97	7,755.00	7,706.72	78.49	30.17	-89.63	-4,400.33	3,992.86	2,699.90	2,599.14	100.76	26.795		
10,900.00	7,806.97	7,757.52	7,709.24	80.06	30.18	-89.68	-4,400.35	3,992.87	2,685.87	2,582.57	103.29	26.002		
11,000.00	7,806.97	7,758.29	7,710.00	81.64	30.18	-89.70	-4,400.36	3,992.88	2,675.50	2,569.71	105.78	25.293		
11,100.00	7,806.97	7,759.05	7,710.77	83.22	30.18	-89.72	-4,400.37	3,992.88	2,668.84	2,560.62	108.21	24.663		
11,200.00	7,806.96	7,759.81	7,711.53	84.81	30.19	-89.73	-4,400.37	3,992.88	2,665.91	2,555.34	110.57	24.111		
11,228.00	7,806.96	7,760.03	7,711.74	85.26	30.19	-89.74	-4,400.38	3,992.88	2,665.76	2,554.55	111.21	23.970 CC		
11,300.00	7,806.96	7,760.58	7,712.29	86.41	30.19	-89.75	-4,400.38	3,992.89	2,666.74	2,553.90	112.84	23.633 ES		
11,400.00	7,806.96	7,761.34	7,713.05	88.01	30.19	-89.77	-4,400.39	3,992.89	2,671.31	2,556.29	115.02	23.225		
11,500.00	7,806.96	7,762.09	7,713.81	89.63	30.19	-89.78	-4,400.40	3,992.89	2,679.60	2,562.51	117.09	22.885		
11,600.00	7,806.96	7,762.85	7,714.57	91.24	30.20	-89.80	-4,400.40	3,992.90	2,691.59	2,572.54	119.05	22.609		
11,700.00	7,806.96	7,763.61	7,715.32	92.87	30.20	-89.81	-4,400.41	3,992.90	2,707.23	2,586.33	120.89	22.394		
11,800.00	7,806.96	7,764.36	7,716.08	94.49	30.20	-89.83	-4,400.42	3,992.91	2,726.44	2,603.83	122.61	22.237		
11,900.00	7,806.95	7,765.11	7,716.83	96.13	30.20	-89.85	-4,400.42	3,992.91	2,749.16	2,624.95	124.20	22.134		
12,000.00	7,806.95	7,765.87	7,717.58	97.77	30.20	-89.86	-4,400.43	3,992.91	2,775.29	2,649.62	125.67	22.084		
12,100.00	7,806.95	7,766.62	7,718.33	99.41	30.21	-89.88	-4,400.44	3,992.92	2,804.75	2,677.74	127.01	22.083 SF		
12,200.00	7,806.95	7,767.37	7,719.08	101.06	30.21	-89.90	-4,400.45	3,992.92	2,837.43	2,709.21	128.23	22.128		
12,300.00	7,806.95	7,768.11	7,719.83	102.71	30.21	-89.91	-4,400.45	3,992.93	2,873.22	2,743.90	129.32	22.217		
12,400.00	7,806.95	7,768.86	7,720.57	104.37	30.21	-89.93	-4,400.46	3,992.93	2,912.01	2,781.71	130.30	22.348		
12,500.00	7,806.95	7,769.60	7,721.32	106.02	30.22	-89.94	-4,400.47	3,992.93	2,953.67	2,822.50	131.17	22.518		
12,600.00	7,806.95	7,770.35	7,722.06	107.69	30.22	-89.96	-4,400.47	3,992.94	2,998.09	2,866.16	131.94	22.724		
12,700.00	7,806.94	7,771.09	7,722.80	109.35	30.22	-89.98	-4,400.48	3,992.94	3,045.15	2,912.55	132.60	22.965		
12,800.00	7,806.94	7,771.83	7,723.54	111.02	30.22	-89.99	-4,400.49	3,992.95	3,094.72	2,961.55	133.17	23.239		
12,900.00	7,806.94	7,772.57	7,724.28	112.70	30.22	-90.01	-4,400.50	3,992.95	3,146.70	3,013.04	133.65	23.544		
13,000.00	7,806.94	7,773.31	7,725.02	114.37	30.23	-90.02	-4,400.50	3,992.95	3,200.95	3,066.89	134.06	23.877		
13,100.00	7,806.94	7,774.04	7,725.76	116.05	30.23	-90.04	-4,400.51	3,992.96	3,257.37	3,122.98	134.39	24.238		
13,200.00	7,806.94	7,774.78	7,726.49	117.74	30.23	-90.05	-4,400.52	3,992.96	3,315.84	3,181.19	134.65	24.625		
13,300.00	7,806.94	7,775.51	7,727.23	119.42	30.23	-90.07	-4,400.52	3,992.97	3,376.27	3,241.42	134.85	25.037		
13,400.00	7,806.94	7,776.24	7,727.96	121.11	30.24	-90.09	-4,400.53	3,992.97	3,438.54	3,303.54	135.00	25.471		
13,500.00	7,806.93	7,776.97	7,728.69	122.80	30.24	-90.10	-4,400.54	3,992.98	3,502.56	3,367.47	135.09	25.927		
13,600.00	7,806.93	7,777.70	7,729.42	124.49	30.24	-90.12	-4,400.54	3,992.98	3,568.23	3,433.09	135.14	26.403		
13,700.00	7,806.93	7,778.43	7,730.15	126.18	30.24	-90.13	-4,400.55	3,992.99	3,635.47	3,500.32	135.15	26.899		
13,800.00	7,806.93	7,779.16	7,730.87	127.88	30.24	-90.15	-4,400.56	3,992.99	3,704.19	3,569.07	135.12	27.413		
13,900.00	7,806.93	7,779.89	7,731.60	129.58	30.25	-90.16	-4,400.56	3,993.00	3,774.31	3,639.24	135.07	27.944		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,780.61	7,732.32	131.28	30.25	-90.18	-4,400.57	3,993.00	3,845.74	3,710.77	134.98	28.492		
14,100.00	7,806.93	7,781.33	7,733.05	132.98	30.25	-90.20	-4,400.58	3,993.00	3,918.43	3,783.57	134.86	29.055		
14,200.00	7,806.93	7,782.06	7,733.77	134.68	30.25	-90.21	-4,400.58	3,993.01	3,992.30	3,857.57	134.73	29.632		
14,300.00	7,806.92	7,782.78	7,734.49	136.39	30.26	-90.23	-4,400.59	3,993.01	4,067.29	3,932.71	134.57	30.223		
14,400.00	7,806.92	7,783.49	7,735.21	138.10	30.26	-90.24	-4,400.60	3,993.02	4,143.33	4,008.93	134.40	30.828		
14,500.00	7,806.92	7,784.21	7,735.93	139.81	30.26	-90.26	-4,400.60	3,993.02	4,220.37	4,086.16	134.22	31.444		
14,600.00	7,806.92	7,784.93	7,736.64	141.52	30.26	-90.27	-4,400.61	3,993.03	4,298.36	4,164.34	134.02	32.073		
14,700.00	7,806.92	7,785.64	7,737.36	143.23	30.26	-90.29	-4,400.62	3,993.03	4,377.24	4,243.43	133.81	32.712		
14,800.00	7,806.92	7,786.36	7,738.07	144.94	30.27	-90.30	-4,400.62	3,993.04	4,456.97	4,323.38	133.59	33.362		
14,900.00	7,806.92	7,787.07	7,738.78	146.66	30.27	-90.32	-4,400.63	3,993.04	4,537.51	4,404.13	133.37	34.022		
15,000.00	7,806.92	7,787.78	7,739.50	148.37	30.27	-90.33	-4,400.64	3,993.05	4,618.80	4,485.66	133.14	34.691		
15,100.00	7,806.91	7,788.49	7,740.21	150.09	30.27	-90.35	-4,400.64	3,993.06	4,700.81	4,567.91	132.91	35.369		
15,200.00	7,806.91	7,789.20	7,740.91	151.81	30.28	-90.36	-4,400.65	3,993.06	4,783.51	4,650.85	132.67	36.056		
15,300.00	7,806.91	7,789.91	7,741.62	153.53	30.28	-90.38	-4,400.66	3,993.07	4,866.86	4,734.43	132.43	36.751		
15,400.00	7,806.91	7,790.61	7,742.33	155.25	30.28	-90.39	-4,400.66	3,993.07	4,950.83	4,818.64	132.18	37.454		
15,500.00	7,806.91	7,791.32	7,743.03	156.97	30.28	-90.41	-4,400.67	3,993.08	5,035.38	4,903.44	131.94	38.164		
15,600.00	7,806.91	7,792.02	7,743.74	158.70	30.28	-90.42	-4,400.68	3,993.08	5,120.49	4,988.79	131.70	38.881		
15,700.00	7,806.91	7,792.73	7,744.44	160.42	30.29	-90.44	-4,400.68	3,993.09	5,206.12	5,074.67	131.45	39.604		
15,800.00	7,806.91	7,793.43	7,745.14	162.15	30.29	-90.46	-4,400.69	3,993.09	5,292.26	5,161.05	131.21	40.334		
15,900.00	7,806.90	7,794.13	7,745.84	163.88	30.29	-90.47	-4,400.69	3,993.10	5,378.88	5,247.91	130.97	41.070		
16,000.00	7,806.90	7,794.83	7,746.54	165.60	30.29	-90.49	-4,400.70	3,993.10	5,465.96	5,335.23	130.73	41.811		
16,100.00	7,806.90	7,795.52	7,747.24	167.33	30.30	-90.50	-4,400.71	3,993.11	5,553.47	5,422.98	130.49	42.558		
16,200.00	7,806.90	7,796.22	7,747.93	169.06	30.30	-90.52	-4,400.71	3,993.12	5,641.40	5,511.14	130.26	43.310		
16,300.00	7,806.90	7,796.91	7,748.63	170.79	30.30	-90.53	-4,400.72	3,993.12	5,729.72	5,599.70	130.02	44.067		
16,400.00	7,806.90	7,797.61	7,749.32	172.52	30.30	-90.54	-4,400.73	3,993.13	5,818.42	5,688.63	129.79	44.829		
16,500.00	7,806.90	7,798.30	7,750.01	174.26	30.30	-90.56	-4,400.73	3,993.13	5,907.49	5,777.92	129.56	45.595		
16,600.00	7,806.89	7,798.99	7,750.70	175.99	30.31	-90.57	-4,400.74	3,993.14	5,996.89	5,867.55	129.34	46.365		
16,700.00	7,806.89	7,799.68	7,751.39	177.72	30.31	-90.59	-4,400.75	3,993.14	6,086.63	5,957.51	129.12	47.140		
16,800.00	7,806.89	7,800.37	7,752.08	179.46	30.31	-90.60	-4,400.75	3,993.15	6,176.68	6,047.78	128.90	47.918		
16,900.00	7,806.89	7,801.06	7,752.77	181.19	30.31	-90.62	-4,400.76	3,993.16	6,267.03	6,138.35	128.69	48.700		
17,000.00	7,806.89	7,801.74	7,753.46	182.93	30.31	-90.63	-4,400.76	3,993.16	6,357.67	6,229.20	128.48	49.485		
17,100.00	7,806.89	7,802.43	7,754.14	184.67	30.32	-90.65	-4,400.77	3,993.17	6,448.59	6,320.32	128.27	50.274		
17,200.00	7,806.89	7,803.11	7,754.82	186.40	30.32	-90.66	-4,400.78	3,993.17	6,539.78	6,411.71	128.07	51.066		
17,300.00	7,806.89	7,803.79	7,755.51	188.14	30.32	-90.68	-4,400.78	3,993.18	6,631.21	6,503.35	127.87	51.861		
17,400.00	7,806.88	7,804.48	7,756.19	189.88	30.32	-90.69	-4,400.79	3,993.19	6,722.89	6,595.22	127.67	52.658		
17,500.00	7,806.88	7,805.16	7,756.87	191.62	30.32	-90.71	-4,400.79	3,993.19	6,814.81	6,687.33	127.48	53.459		
17,600.00	7,806.88	7,805.83	7,757.55	193.36	30.33	-90.72	-4,400.80	3,993.20	6,906.95	6,779.66	127.29	54.262		
17,700.00	7,806.88	7,806.51	7,758.23	195.10	30.33	-90.74	-4,400.81	3,993.20	6,999.30	6,872.20	127.10	55.068		
17,800.00	7,806.88	7,807.19	7,758.90	196.84	30.33	-90.75	-4,400.81	3,993.21	7,091.87	6,964.94	126.92	55.875		
17,900.00	7,806.88	7,807.86	7,759.58	198.58	30.33	-90.77	-4,400.82	3,993.22	7,184.63	7,057.88	126.75	56.686		
18,000.00	7,806.88	7,808.54	7,760.25	200.33	30.33	-90.78	-4,400.83	3,993.22	7,277.58	7,151.01	126.57	57.498		
18,027.46	7,807.00	7,808.81	7,760.53	200.80	30.34	-90.78	-4,400.83	3,993.22	7,303.24	7,176.71	126.53	57.720		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	130.90	-3,991.34	4,607.28	6,096.31					
100.00	100.00	27.65	27.65	0.13	0.04	130.90	-3,991.38	4,607.22	6,095.71	6,095.54	0.17	N/A		
173.94	173.94	90.00	90.00	0.40	0.19	130.91	-3,991.73	4,606.67	6,095.51	6,094.93	0.59	N/A		
200.00	200.00	102.80	102.80	0.49	0.23	130.91	-3,991.86	4,606.55	6,095.53	6,094.80	0.73	8,395.611		
300.00	300.00	148.00	147.98	0.85	0.40	130.92	-3,992.78	4,606.21	6,096.23	6,094.99	1.25	4,888.182		
400.00	400.00	228.85	228.79	1.21	0.69	130.94	-3,995.22	4,605.17	6,097.29	6,095.39	1.90	3,212.040		
500.00	500.00	264.00	263.90	1.57	0.82	130.96	-3,996.82	4,604.62	6,099.20	6,096.81	2.39	2,556.566		
600.00	600.00	315.21	314.99	1.93	1.01	130.99	-4,000.14	4,603.73	6,102.12	6,099.19	2.93	2,079.913		
700.00	700.00	385.00	384.54	2.29	1.27	131.04	-4,005.68	4,602.12	6,105.61	6,102.06	3.55	1,717.507		
800.00	800.00	471.49	470.51	2.64	1.62	131.12	-4,014.53	4,598.80	6,109.47	6,105.22	4.25	1,437.249		
900.00	900.00	506.00	504.72	3.00	1.76	131.16	-4,018.72	4,597.08	6,113.94	6,109.19	4.75	1,287.896		
1,000.00	1,000.00	547.17	545.47	3.36	1.93	131.21	-4,024.29	4,595.15	6,119.44	6,114.17	5.27	1,160.533		
1,100.00	1,099.98	598.00	595.66	3.71	2.15	4.27	-4,031.92	4,592.78	6,124.17	6,118.34	5.83	1,050.981		
1,200.00	1,199.84	635.82	632.88	4.04	2.32	4.32	-4,038.32	4,590.81	6,126.32	6,120.00	6.32	969.232		
1,300.00	1,299.45	688.00	684.04	4.39	2.56	4.41	-4,048.19	4,587.84	6,125.95	6,119.07	6.89	889.216		
1,400.00	1,398.70	718.00	713.32	4.74	2.70	4.48	-4,054.40	4,585.93	6,123.00	6,115.63	7.37	831.319		
1,500.00	1,497.47	761.52	755.64	5.12	2.92	4.58	-4,064.15	4,583.04	6,117.58	6,109.66	7.92	772.856		
1,600.00	1,595.62	806.03	798.66	5.51	3.15	4.69	-4,075.10	4,579.85	6,109.72	6,101.24	8.48	720.297		
1,700.00	1,693.06	853.64	844.40	5.94	3.41	4.83	-4,087.75	4,576.04	6,099.27	6,090.19	9.08	671.807		
1,800.00	1,789.64	908.00	896.29	6.39	3.72	5.00	-4,103.23	4,571.23	6,086.18	6,076.45	9.73	625.655		
1,863.26	1,850.25	919.71	907.40	6.70	3.79	5.06	-4,106.74	4,570.16	6,076.64	6,066.62	10.02	606.556		
1,900.00	1,885.34	929.23	916.42	6.89	3.85	5.08	-4,109.65	4,569.29	6,070.93	6,060.73	10.20	595.019		
2,000.00	1,980.83	1,041.69	1,022.60	7.41	4.55	5.44	-4,144.90	4,557.80	6,055.18	6,043.95	11.23	539.435		
2,100.00	2,076.33	1,094.41	1,072.22	7.95	4.88	5.60	-4,161.87	4,552.44	6,040.20	6,028.30	11.90	507.408		
2,200.00	2,171.82	1,165.60	1,139.44	8.50	5.34	5.82	-4,184.41	4,545.96	6,025.82	6,013.12	12.70	474.467		
2,300.00	2,267.32	1,218.00	1,188.95	9.07	5.67	5.99	-4,200.97	4,541.46	6,011.98	5,998.60	13.38	449.223		
2,400.00	2,362.81	1,274.62	1,242.34	9.64	6.04	6.16	-4,219.24	4,536.73	5,998.92	5,984.82	14.10	425.470		
2,500.00	2,458.30	1,387.27	1,348.51	10.22	6.78	6.51	-4,255.87	4,528.12	5,986.65	5,971.49	15.16	394.912		
2,600.00	2,553.80	1,451.78	1,409.18	10.81	7.21	6.71	-4,277.11	4,522.74	5,974.30	5,958.37	15.93	374.955		
2,700.00	2,649.29	1,539.30	1,490.76	11.41	7.81	7.01	-4,307.55	4,514.01	5,962.40	5,945.53	16.88	353.301		
2,800.00	2,744.79	1,674.51	1,616.01	12.01	8.78	7.50	-4,356.04	4,498.37	5,950.47	5,932.31	18.16	327.648		
2,900.00	2,840.28	1,800.30	1,733.19	12.61	9.67	7.94	-4,399.52	4,484.26	5,938.04	5,918.67	19.37	306.547		
3,000.00	2,935.77	1,959.51	1,882.51	13.22	10.76	8.49	-4,451.96	4,466.91	5,924.74	5,903.96	20.78	285.162		
3,100.00	3,031.27	3,100.00	1,999.98	13.83	18.37	8.90	-4,491.78	4,453.73	5,911.29	5,883.07	28.22	209.472		
3,200.00	3,126.76	2,157.62	2,069.50	14.44	12.08	9.14	-4,514.14	4,446.64	5,897.63	5,874.86	22.78	258.936		
3,300.00	3,222.26	2,201.00	2,110.71	15.06	12.36	9.27	-4,527.25	4,443.27	5,885.02	5,861.60	23.42	251.266		
3,400.00	3,317.75	2,275.49	2,181.15	15.68	12.86	9.51	-4,550.68	4,437.07	5,873.17	5,848.90	24.26	242.053		
3,500.00	3,413.25	2,350.91	2,251.85	16.30	13.37	9.77	-4,575.79	4,429.41	5,861.72	5,836.59	25.13	233.282		
3,600.00	3,508.74	2,414.18	2,311.08	16.92	13.81	9.99	-4,597.11	4,423.02	5,850.83	5,824.91	25.92	225.742		
3,700.00	3,604.23	2,620.44	2,504.73	17.54	15.23	10.69	-4,665.23	4,403.28	5,840.47	5,812.86	27.61	211.542		
3,800.00	3,699.73	2,687.18	2,567.47	18.17	15.68	10.92	-4,686.87	4,396.19	5,828.70	5,800.29	28.42	205.126		
3,900.00	3,795.22	2,783.71	2,658.11	18.79	16.35	11.26	-4,718.40	4,385.82	5,817.27	5,787.86	29.42	197.762		
4,000.00	3,890.72	2,859.80	2,729.74	19.42	16.86	11.52	-4,742.95	4,378.22	5,806.18	5,775.91	30.28	191.755		
4,100.00	3,986.21	2,992.20	2,854.65	20.05	17.75	11.96	-4,784.90	4,365.43	5,795.04	5,763.55	31.49	184.055		
4,200.00	4,081.70	3,057.00	2,915.71	20.67	18.19	12.19	-4,805.57	4,358.73	5,783.95	5,751.67	32.28	179.200		
4,300.00	4,177.20	3,120.67	2,975.47	21.30	18.63	12.41	-4,826.45	4,351.93	5,773.53	5,740.46	33.07	174.588		
4,400.00	4,272.69	3,209.15	3,058.32	21.93	19.24	12.73	-4,856.09	4,342.69	5,763.95	5,729.93	34.02	169.433		
4,500.00	4,368.19	3,273.50	3,118.74	22.56	19.69	12.95	-4,877.32	4,336.42	5,754.61	5,719.80	34.81	165.309		
4,600.00	4,463.68	3,433.34	3,268.84	23.19	20.79	13.52	-4,929.84	4,320.26	5,745.12	5,708.91	36.20	158.692		
4,700.00	4,559.17	3,472.49	3,305.71	23.83	21.05	13.65	-4,942.47	4,316.59	5,735.84	5,699.00	36.83	155.736		
4,800.00	4,654.67	3,637.74	3,461.40	24.46	22.17	14.23	-4,995.26	4,299.93	5,725.74	5,687.49	38.24	149.712		
4,900.00	4,750.16	3,692.00	3,512.27	25.09	22.54	14.43	-5,013.32	4,294.45	5,716.93	5,677.96	38.97	146.690		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,845.66	3,692.00	3,512.27	25.72	22.54	14.43	-5,013.32	4,294.45	5,708.95	5,669.60	39.35	145.072		
5,100.00	4,941.15	3,977.00	3,781.92	26.36	24.42	15.39	-5,101.65	4,268.63	5,698.24	5,656.78	41.46	137.436		
5,200.00	5,036.65	4,059.04	3,859.90	26.99	24.95	15.66	-5,126.12	4,261.51	5,688.42	5,646.09	42.33	134.372		
5,300.00	5,132.14	4,113.52	3,911.48	27.63	25.31	15.85	-5,142.87	4,256.35	5,679.13	5,636.09	43.05	131.931		
5,400.00	5,227.63	4,400.00	3,995.60	28.26	33.79	16.15	-5,170.37	4,248.49	5,670.51	5,619.62	50.89	111.431		
5,500.00	5,323.13	4,262.00	4,051.80	28.90	26.30	16.36	-5,189.43	4,242.63	5,662.37	5,617.66	44.72	126.624		
5,600.00	5,418.62	4,326.00	4,111.96	29.53	26.73	16.60	-5,210.27	4,236.10	5,654.81	5,609.31	45.50	124.280		
5,700.00	5,514.12	4,367.66	4,150.97	30.17	27.03	16.75	-5,224.20	4,231.70	5,648.13	5,601.99	46.14	122.402		
5,800.00	5,609.61	4,545.55	4,317.69	30.80	28.26	17.41	-5,283.45	4,213.36	5,641.48	5,593.82	47.66	118.374		
5,900.00	5,705.10	4,601.98	4,370.60	31.44	28.65	17.62	-5,302.09	4,207.28	5,634.68	5,586.29	48.39	116.436		
6,000.00	5,800.60	4,645.76	4,411.61	32.08	28.96	17.78	-5,316.78	4,202.91	5,628.88	5,579.84	49.04	114.771		
6,100.00	5,896.09	4,859.81	4,613.21	32.71	30.41	18.54	-5,385.96	4,183.27	5,622.69	5,571.94	50.75	110.789		
6,200.00	5,991.59	5,004.17	4,750.37	33.35	31.34	19.03	-5,429.23	4,171.05	5,615.04	5,563.06	51.98	108.025		
6,300.00	6,087.08	5,075.93	4,819.00	33.99	31.78	19.25	-5,449.69	4,166.54	5,607.55	5,554.78	52.77	106.266		
6,400.00	6,182.57	5,400.00	4,925.45	34.62	40.44	19.63	-5,483.57	4,157.32	5,600.77	5,540.10	60.67	92.314		
6,499.99	6,278.06	5,309.00	5,040.12	35.26	33.29	20.06	-5,520.07	4,145.05	5,593.08	5,538.16	54.92	101.845		
6,505.95	6,283.75	5,309.00	5,040.12	35.30	33.29	20.06	-5,520.07	4,145.05	5,592.64	5,537.70	54.94	101.794		
6,600.00	6,374.00	5,361.23	5,089.52	35.88	33.64	20.21	-5,536.13	4,139.57	5,587.45	5,531.83	55.62	100.464		
6,700.00	6,470.87	5,524.37	5,244.06	36.44	34.71	20.75	-5,585.65	4,123.10	5,585.18	5,528.22	56.96	98.060		
6,733.24	6,503.24	5,551.54	5,269.98	36.61	34.88	20.84	-5,593.47	4,120.80	5,584.98	5,527.75	57.23	97.588		
6,800.00	6,568.53	5,608.50	5,324.27	36.96	35.24	21.02	-5,609.97	4,115.87	5,585.78	5,527.99	57.79	96.654		
6,900.00	6,666.89	5,716.90	5,427.38	37.43	35.93	21.38	-5,641.82	4,105.63	5,589.82	5,531.06	58.76	95.132		
7,000.00	6,765.82	5,770.71	5,478.44	37.85	36.28	21.60	-5,657.92	4,100.17	5,597.43	5,538.04	59.39	94.245		
7,100.00	6,865.19	5,823.49	5,528.42	38.22	36.63	21.84	-5,674.10	4,095.05	5,609.19	5,549.19	60.00	93.489		
7,200.00	6,964.89	7,200.00	6,185.84	38.55	43.76	23.47	-5,841.83	4,040.12	5,621.19	5,554.47	66.73	84.242		
7,300.00	7,064.80	7,340.48	6,016.32	38.83	43.36	24.26	-5,916.91	4,011.86	5,626.26	5,560.11	66.14	85.063		
7,369.20	7,134.00	7,417.39	7,093.23	39.00	43.49	151.25	-5,916.39	4,011.74	5,625.03	5,558.54	66.50	84.590		
7,400.00	7,164.80	7,464.66	7,140.50	39.06	43.57	151.25	-5,915.87	4,011.79	5,624.75	5,558.10	66.66	84.384		
7,469.20	7,234.00	7,545.60	7,221.42	39.22	43.71	151.24	-5,914.52	4,012.21	5,623.90	5,556.91	67.00	83.943		
7,500.00	7,264.78	7,574.00	7,249.82	39.29	43.76	-28.48	-5,913.95	4,012.51	5,622.79	5,555.65	67.15	83.741		
7,550.00	7,314.53	7,608.17	7,283.98	39.44	43.81	-28.73	-5,913.26	4,012.98	5,617.97	5,550.59	67.38	83.374		
7,600.00	7,363.66	7,639.45	7,315.24	39.62	43.86	-29.19	-5,912.68	4,013.52	5,609.51	5,541.90	67.62	82.960		
7,650.00	7,411.81	7,677.00	7,352.78	39.82	43.93	-29.86	-5,912.05	4,014.31	5,597.50	5,529.65	67.85	82.499		
7,700.00	7,458.61	7,697.62	7,373.39	40.06	43.96	-30.73	-5,911.75	4,014.79	5,582.00	5,513.93	68.07	82.007		
7,750.00	7,503.69	7,723.56	7,399.33	40.32	44.01	-31.86	-5,911.46	4,015.42	5,563.16	5,494.88	68.28	81.477		
7,800.00	7,546.72	7,748.39	7,424.15	40.60	44.05	-33.27	-5,911.27	4,016.04	5,541.12	5,472.64	68.48	80.917		
7,850.00	7,587.38	7,850.00	7,496.96	40.92	44.24	-35.22	-5,910.64	4,017.68	5,515.82	5,447.07	68.75	80.233		
7,900.00	7,625.34	7,899.47	7,575.18	41.25	44.32	-37.69	-5,909.58	4,019.21	5,487.36	5,418.48	68.88	79.663		
7,950.00	7,660.33	7,926.74	7,602.44	41.61	44.37	-40.39	-5,909.12	4,019.72	5,456.06	5,387.02	69.04	79.031		
8,000.00	7,692.07	7,951.43	7,627.13	42.00	44.41	-43.63	-5,908.71	4,020.21	5,422.34	5,353.17	69.17	78.388		
8,050.00	7,720.33	7,962.00	7,637.69	42.40	44.43	-47.40	-5,908.55	4,020.43	5,386.49	5,317.20	69.29	77.743		
8,100.00	7,744.89	7,983.05	7,658.73	42.83	44.47	-52.01	-5,908.24	4,020.90	5,348.76	5,279.38	69.38	77.091		
8,150.00	7,765.56	7,994.13	7,669.81	43.27	44.49	-57.34	-5,908.10	4,021.17	5,309.48	5,240.02	69.46	76.442		
8,200.00	7,782.18	8,003.03	7,678.70	43.74	44.51	-63.51	-5,908.00	4,021.39	5,268.91	5,199.40	69.51	75.798		
8,250.00	7,794.63	8,009.65	7,685.32	44.22	44.52	-70.49	-5,907.92	4,021.57	5,227.37	5,157.83	69.55	75.161		
8,300.00	7,802.82	8,013.92	7,689.59	44.71	44.52	-78.14	-5,907.88	4,021.68	5,185.17	5,115.61	69.57	74.534		
8,350.00	7,806.68	8,015.80	7,691.47	45.21	44.53	-86.19	-5,907.86	4,021.74	5,142.63	5,073.06	69.57	73.920		
8,369.28	7,807.00	8,015.88	7,691.55	45.40	44.53	-89.33	-5,907.86	4,021.74	5,126.21	5,056.64	69.57	73.687		
8,400.00	7,807.00	8,015.71	7,691.38	45.72	44.53	-89.33	-5,907.86	4,021.73	5,100.06	5,030.50	69.56	73.316		
8,500.00	7,807.00	8,015.15	7,690.82	46.77	44.53	-89.31	-5,907.87	4,021.72	5,015.33	4,945.75	69.58	72.075		
8,600.00	7,807.00	8,014.59	7,690.26	47.86	44.53	-89.30	-5,907.87	4,021.70	4,931.17	4,861.50	69.66	70.785		
8,700.00	7,807.00	8,014.03	7,689.70	48.99	44.53	-89.29	-5,907.88	4,021.69	4,847.61	4,777.80	69.81	69.441		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,806.99	8,013.45	7,689.12	50.16	44.52	-89.28	-5,907.88	4,021.67	4,764.68	4,694.65	70.02	68.043		
8,900.00	7,806.99	8,012.87	7,688.54	51.37	44.52	-89.27	-5,907.89	4,021.65	4,682.42	4,612.10	70.32	66.590		
9,000.00	7,806.99	8,012.28	7,687.95	52.60	44.52	-89.25	-5,907.90	4,021.64	4,600.86	4,530.16	70.70	65.080		
9,100.00	7,806.99	8,011.69	7,687.36	53.87	44.52	-89.24	-5,907.90	4,021.62	4,520.04	4,448.87	71.16	63.515		
9,200.00	7,806.99	8,011.08	7,686.75	55.17	44.52	-89.23	-5,907.91	4,021.61	4,440.00	4,368.27	71.73	61.898		
9,300.00	7,806.99	8,010.47	7,686.14	56.49	44.52	-89.21	-5,907.91	4,021.59	4,360.79	4,288.39	72.40	60.231		
9,400.00	7,806.99	8,009.85	7,685.52	57.83	44.52	-89.20	-5,907.92	4,021.57	4,282.45	4,209.27	73.18	58.519		
9,500.00	7,806.99	8,009.23	7,684.90	59.20	44.52	-89.19	-5,907.93	4,021.56	4,205.02	4,130.95	74.07	56.769		
9,600.00	7,806.98	8,008.59	7,684.26	60.59	44.52	-89.17	-5,907.93	4,021.54	4,128.57	4,053.49	75.08	54.988		
9,700.00	7,806.98	8,007.95	7,683.62	62.00	44.51	-89.16	-5,907.94	4,021.52	4,053.14	3,976.93	76.21	53.182		
9,800.00	7,806.98	8,007.30	7,682.97	63.43	44.51	-89.15	-5,907.95	4,021.51	3,978.79	3,901.32	77.47	51.361		
9,900.00	7,806.98	8,006.64	7,682.31	64.87	44.51	-89.13	-5,907.96	4,021.49	3,905.59	3,826.74	78.85	49.534		
10,000.00	7,806.98	8,005.97	7,681.65	66.34	44.51	-89.12	-5,907.96	4,021.47	3,833.60	3,753.25	80.35	47.710		
10,100.00	7,806.98	8,005.30	7,680.97	67.81	44.51	-89.10	-5,907.97	4,021.45	3,762.89	3,680.91	81.98	45.898		
10,200.00	7,806.98	8,004.61	7,680.28	69.30	44.51	-89.09	-5,907.98	4,021.43	3,693.53	3,609.79	83.74	44.105		
10,300.00	7,806.98	8,003.92	7,679.59	70.81	44.51	-89.07	-5,907.99	4,021.42	3,625.61	3,539.98	85.63	42.342		
10,400.00	7,806.97	8,003.21	7,678.89	72.32	44.51	-89.06	-5,907.99	4,021.40	3,559.20	3,471.57	87.63	40.614		
10,500.00	7,806.97	8,002.50	7,678.17	73.85	44.50	-89.04	-5,908.00	4,021.38	3,494.39	3,404.63	89.76	38.930		
10,600.00	7,806.97	8,001.77	7,677.45	75.39	44.50	-89.03	-5,908.01	4,021.36	3,431.27	3,339.26	92.01	37.294		
10,700.00	7,806.97	8,001.04	7,676.72	76.94	44.50	-89.01	-5,908.02	4,021.34	3,369.93	3,275.57	94.37	35.711		
10,800.00	7,806.97	8,000.30	7,675.97	78.49	44.50	-89.00	-5,908.03	4,021.32	3,310.48	3,213.65	96.83	34.188		
10,900.00	7,806.97	7,999.54	7,675.22	80.06	44.50	-88.98	-5,908.04	4,021.30	3,253.02	3,153.61	99.40	32.726		
11,000.00	7,806.97	7,998.78	7,674.46	81.64	44.50	-88.97	-5,908.04	4,021.28	3,197.65	3,095.58	102.07	31.328		
11,100.00	7,806.97	7,998.00	7,673.68	83.22	44.50	-88.95	-5,908.05	4,021.26	3,144.49	3,039.66	104.82	29.998		
11,200.00	7,806.96	7,997.22	7,672.90	84.81	44.49	-88.93	-5,908.06	4,021.24	3,093.64	2,985.99	107.66	28.736		
11,300.00	7,806.96	7,996.42	7,672.10	86.41	44.49	-88.92	-5,908.07	4,021.22	3,045.24	2,934.67	110.56	27.543		
11,400.00	7,806.96	7,995.61	7,671.29	88.01	44.49	-88.90	-5,908.08	4,021.20	2,999.38	2,885.86	113.53	26.420		
11,500.00	7,806.96	7,994.79	7,670.47	89.63	44.49	-88.88	-5,908.09	4,021.18	2,956.20	2,839.67	116.54	25.367		
11,600.00	7,806.96	7,993.96	7,669.64	91.24	44.49	-88.86	-5,908.10	4,021.16	2,915.81	2,796.23	119.58	24.384		
11,700.00	7,806.96	7,993.11	7,668.79	92.87	44.49	-88.84	-5,908.11	4,021.14	2,878.33	2,755.69	122.64	23.470		
11,800.00	7,806.96	7,992.26	7,667.94	94.49	44.49	-88.83	-5,908.12	4,021.12	2,843.87	2,718.17	125.70	22.624		
11,900.00	7,806.95	7,991.39	7,667.07	96.13	44.48	-88.81	-5,908.13	4,021.10	2,812.55	2,683.79	128.75	21.844		
12,000.00	7,806.95	7,990.50	7,666.18	97.77	44.48	-88.79	-5,908.15	4,021.08	2,784.46	2,652.69	131.77	21.131		
12,100.00	7,806.95	7,989.61	7,665.29	99.41	44.48	-88.77	-5,908.16	4,021.05	2,759.72	2,624.98	134.74	20.481		
12,200.00	7,806.95	7,988.70	7,664.38	101.06	44.48	-88.75	-5,908.17	4,021.03	2,738.41	2,600.76	137.65	19.895		
12,300.00	7,806.95	7,987.77	7,663.45	102.71	44.48	-88.73	-5,908.18	4,021.01	2,720.60	2,580.14	140.46	19.369		
12,400.00	7,806.95	7,986.83	7,662.51	104.37	44.48	-88.71	-5,908.19	4,020.99	2,706.38	2,563.20	143.18	18.902		
12,500.00	7,806.95	7,985.88	7,661.56	106.02	44.47	-88.69	-5,908.21	4,020.96	2,695.79	2,550.01	145.78	18.492		
12,600.00	7,806.95	7,984.91	7,660.59	107.69	44.47	-88.67	-5,908.22	4,020.94	2,688.89	2,540.64	148.25	18.138		
12,700.00	7,806.94	7,983.93	7,659.61	109.35	44.47	-88.65	-5,908.23	4,020.92	2,685.69	2,535.12	150.56	17.838		
12,736.00	7,806.94	7,983.57	7,659.25	109.96	44.47	-88.64	-5,908.24	4,020.91	2,685.45	2,534.08	151.36	17.742 CC		
12,800.00	7,806.94	7,982.93	7,658.61	111.02	44.47	-88.63	-5,908.24	4,020.89	2,686.21	2,533.48	152.72	17.589 ES		
12,900.00	7,806.94	7,981.91	7,657.59	112.70	44.47	-88.61	-5,908.26	4,020.87	2,690.45	2,535.73	154.72	17.389		
13,000.00	7,806.94	7,980.88	7,656.56	114.37	44.46	-88.58	-5,908.27	4,020.85	2,698.39	2,541.85	156.54	17.238		
13,100.00	7,806.94	7,979.83	7,655.51	116.05	44.46	-88.56	-5,908.29	4,020.82	2,710.00	2,551.82	158.18	17.133		
13,200.00	7,806.94	7,978.76	7,654.44	117.74	44.46	-88.54	-5,908.30	4,020.80	2,725.23	2,565.60	159.63	17.072		
13,300.00	7,806.94	7,977.68	7,653.36	119.42	44.46	-88.52	-5,908.32	4,020.77	2,744.02	2,583.11	160.91	17.053 SF		
13,400.00	7,806.94	7,976.57	7,652.26	121.11	44.46	-88.49	-5,908.33	4,020.75	2,766.31	2,604.29	162.01	17.075		
13,500.00	7,806.93	7,975.45	7,651.14	122.80	44.45	-88.47	-5,908.35	4,020.72	2,791.99	2,629.05	162.94	17.135		
13,600.00	7,806.93	7,974.31	7,650.00	124.49	44.45	-88.44	-5,908.36	4,020.70	2,820.99	2,657.29	163.70	17.233		
13,700.00	7,806.93	7,973.15	7,648.84	126.18	44.45	-88.42	-5,908.38	4,020.67	2,853.21	2,688.91	164.30	17.366		
13,800.00	7,806.93	7,971.97	7,647.66	127.88	44.45	-88.39	-5,908.40	4,020.64	2,888.52	2,723.77	164.75	17.533		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - BICKLER 24-34 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,900.00	7,806.93	7,970.77	7,646.45	129.58	44.45	-88.37	-5,908.42	4,020.62	2,926.83	2,761.77	165.06	17.732		
14,000.00	7,806.93	7,969.54	7,645.23	131.28	44.44	-88.34	-5,908.43	4,020.59	2,968.01	2,802.77	165.24	17.962		
14,100.00	7,806.93	7,968.30	7,643.99	132.98	44.44	-88.32	-5,908.45	4,020.56	3,011.95	2,846.65	165.29	18.222		
14,200.00	7,806.93	7,967.03	7,642.72	134.68	44.44	-88.29	-5,908.47	4,020.54	3,058.53	2,893.28	165.24	18.509		
14,300.00	7,806.92	7,965.98	7,641.67	136.39	44.44	-88.27	-5,908.49	4,020.51	3,107.63	2,942.53	165.10	18.823		
14,400.00	7,806.92	7,964.57	7,640.26	138.10	44.43	-88.24	-5,908.51	4,020.48	3,159.13	2,994.27	164.86	19.163		
14,500.00	7,806.92	7,963.14	7,638.83	139.81	44.43	-88.21	-5,908.53	4,020.45	3,212.92	3,048.37	164.54	19.526		
14,600.00	7,806.92	7,961.71	7,637.40	141.52	44.43	-88.17	-5,908.55	4,020.42	3,268.88	3,104.72	164.16	19.913		
14,700.00	7,806.92	7,960.28	7,635.97	143.23	44.43	-88.14	-5,908.58	4,020.39	3,326.91	3,163.19	163.72	20.321		
14,800.00	7,806.92	7,958.83	7,634.52	144.94	44.43	-88.11	-5,908.60	4,020.36	3,386.89	3,223.67	163.22	20.750		
14,900.00	7,806.92	7,957.38	7,633.07	146.66	44.42	-88.08	-5,908.62	4,020.33	3,448.73	3,286.05	162.68	21.199		
15,000.00	7,806.92	7,955.92	7,631.61	148.37	44.42	-88.05	-5,908.64	4,020.30	3,512.33	3,350.22	162.11	21.666		
15,100.00	7,806.91	7,954.45	7,630.14	150.09	44.42	-88.02	-5,908.67	4,020.27	3,577.60	3,416.09	161.50	22.152		
15,200.00	7,806.91	7,952.98	7,628.67	151.81	44.41	-87.99	-5,908.69	4,020.24	3,644.44	3,483.56	160.87	22.654		
15,300.00	7,806.91	7,951.49	7,627.19	153.53	44.41	-87.96	-5,908.71	4,020.21	3,712.77	3,552.54	160.22	23.172		
15,400.00	7,806.91	7,950.00	7,625.70	155.25	44.41	-87.92	-5,908.74	4,020.18	3,782.50	3,622.94	159.56	23.706		
15,500.00	7,806.91	7,948.51	7,624.20	156.97	44.41	-87.89	-5,908.76	4,020.15	3,853.57	3,694.69	158.89	24.254		
15,600.00	7,806.91	7,947.00	7,622.69	158.70	44.40	-87.86	-5,908.79	4,020.12	3,925.90	3,767.70	158.20	24.816		
15,700.00	7,806.91	7,945.49	7,621.18	160.42	44.40	-87.83	-5,908.81	4,020.09	3,999.43	3,841.91	157.52	25.391		
15,800.00	7,806.91	7,943.97	7,619.66	162.15	44.40	-87.80	-5,908.83	4,020.06	4,074.08	3,917.25	156.83	25.978		
15,900.00	7,806.90	7,942.44	7,618.13	163.88	44.40	-87.76	-5,908.86	4,020.03	4,149.79	3,993.65	156.14	26.578		
16,000.00	7,806.90	7,940.90	7,616.60	165.60	44.39	-87.73	-5,908.88	4,020.00	4,226.52	4,071.06	155.45	27.188		
16,100.00	7,806.90	7,939.36	7,615.05	167.33	44.39	-87.70	-5,908.91	4,019.97	4,304.20	4,149.42	154.77	27.809		
16,200.00	7,806.90	7,937.80	7,613.50	169.06	44.39	-87.66	-5,908.93	4,019.93	4,382.78	4,228.68	154.10	28.441		
16,300.00	7,806.90	7,936.24	7,611.94	170.79	44.39	-87.63	-5,908.96	4,019.90	4,462.22	4,308.79	153.43	29.082		
16,400.00	7,806.90	7,934.67	7,610.37	172.52	44.38	-87.60	-5,908.98	4,019.87	4,542.48	4,389.70	152.78	29.733		
16,500.00	7,806.90	7,933.10	7,608.79	174.26	44.38	-87.56	-5,909.01	4,019.84	4,623.50	4,471.37	152.13	30.392		
16,600.00	7,806.89	7,931.51	7,607.21	175.99	44.38	-87.53	-5,909.04	4,019.81	4,705.25	4,553.76	151.49	31.060		
16,700.00	7,806.89	7,929.92	7,605.62	177.72	44.37	-87.50	-5,909.06	4,019.78	4,787.70	4,636.83	150.86	31.736		
16,800.00	7,806.89	7,928.31	7,604.01	179.46	44.37	-87.46	-5,909.09	4,019.75	4,870.80	4,720.55	150.25	32.419		
16,900.00	7,806.89	7,926.70	7,602.40	181.19	44.37	-87.43	-5,909.12	4,019.72	4,954.52	4,804.88	149.64	33.110		
17,000.00	7,806.89	7,925.08	7,600.78	182.93	44.37	-87.39	-5,909.14	4,019.69	5,038.84	4,889.79	149.05	33.807		
17,100.00	7,806.89	7,923.45	7,599.16	184.67	44.36	-87.36	-5,909.17	4,019.66	5,123.72	4,975.26	148.47	34.511		
17,200.00	7,806.89	7,921.82	7,597.52	186.40	44.36	-87.32	-5,909.20	4,019.62	5,209.14	5,061.24	147.90	35.222		
17,300.00	7,806.89	7,920.17	7,595.87	188.14	44.36	-87.29	-5,909.22	4,019.59	5,295.07	5,147.73	147.34	35.938		
17,400.00	7,806.88	7,918.52	7,594.22	189.88	44.36	-87.25	-5,909.25	4,019.56	5,381.48	5,234.69	146.79	36.660		
17,500.00	7,806.88	7,916.85	7,592.56	191.62	44.35	-87.22	-5,909.28	4,019.53	5,468.36	5,322.10	146.26	37.388		
17,600.00	7,806.88	7,915.18	7,590.88	193.36	44.35	-87.18	-5,909.31	4,019.50	5,555.68	5,409.94	145.74	38.121		
17,700.00	7,806.88	7,913.50	7,589.20	195.10	44.35	-87.15	-5,909.34	4,019.47	5,643.41	5,498.19	145.23	38.859		
17,800.00	7,806.88	7,911.81	7,587.51	196.84	44.34	-87.11	-5,909.37	4,019.44	5,731.55	5,586.82	144.73	39.601		
17,900.00	7,806.88	7,910.10	7,585.81	198.58	44.34	-87.07	-5,909.39	4,019.40	5,820.08	5,675.83	144.24	40.349		
18,000.00	7,806.88	7,908.40	7,584.10	200.33	44.34	-87.04	-5,909.42	4,019.37	5,908.96	5,765.19	143.77	41.100		
18,027.46	7,807.00	7,908.04	7,583.75	200.80	44.34	-87.03	-5,909.43	4,019.37	5,933.56	5,789.91	143.65	41.306		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	130.74	-3,974.95	4,614.56	6,091.09					
100.00	100.00	18.24	18.24	0.13	0.03	130.74	-3,974.95	4,614.56	6,090.52	6,090.35	0.17	N/A		
200.00	200.00	125.55	125.55	0.49	0.22	130.74	-3,974.97	4,614.43	6,090.44	6,089.72	0.72	8,506.540		
300.00	300.00	232.86	232.86	0.85	0.41	130.74	-3,975.01	4,614.12	6,090.24	6,088.97	1.27	4,814.044		
400.00	400.00	340.17	340.17	1.21	0.60	130.75	-3,975.07	4,613.61	6,089.92	6,088.10	1.81	3,356.776		
500.00	500.00	447.48	447.47	1.57	0.80	130.75	-3,975.15	4,612.91	6,089.48	6,087.11	2.36	2,576.657		
600.00	600.00	554.78	554.77	1.93	0.99	130.76	-3,975.26	4,612.02	6,088.92	6,086.00	2.91	2,090.672		
700.00	700.00	662.08	662.07	2.29	1.18	130.77	-3,975.40	4,610.94	6,088.24	6,084.77	3.46	1,758.842		
800.00	800.00	769.37	769.35	2.64	1.37	130.78	-3,975.55	4,609.68	6,087.44	6,083.42	4.01	1,517.849		
900.00	900.00	876.67	876.63	3.00	1.56	130.79	-3,975.73	4,608.22	6,086.52	6,081.96	4.56	1,334.875		
1,000.00	1,000.00	983.95	983.91	3.36	1.75	130.80	-3,975.93	4,606.57	6,085.48	6,080.37	5.11	1,191.213		
1,100.00	1,099.98	1,091.18	1,091.12	3.71	1.94	3.81	-3,976.16	4,604.73	6,082.58	6,076.93	5.64	1,077.721		
1,200.00	1,199.84	1,198.22	1,198.14	4.04	2.13	3.84	-3,976.41	4,602.71	6,076.08	6,069.91	6.17	984.788		
1,300.00	1,299.45	1,296.53	1,296.43	4.39	2.57	3.87	-3,976.63	4,600.85	6,066.10	6,059.16	6.94	873.542		
1,400.00	1,398.70	1,409.12	1,409.00	4.74	2.97	3.91	-3,976.80	4,598.62	6,052.56	6,044.87	7.69	786.790		
1,500.00	1,497.47	1,528.29	1,528.14	5.12	3.40	3.96	-3,976.80	4,595.93	6,035.27	6,026.80	8.47	712.761		
1,600.00	1,595.62	1,638.88	1,638.69	5.51	3.80	4.03	-3,976.59	4,593.13	6,014.23	6,005.02	9.21	652.762		
1,700.00	1,693.06	1,721.53	1,721.32	5.94	4.10	4.09	-3,976.41	4,591.07	5,989.83	5,979.97	9.86	607.375		
1,800.00	1,789.64	1,796.62	1,796.39	6.39	4.37	4.15	-3,976.25	4,589.52	5,962.38	5,951.89	10.49	568.620		
1,863.26	1,850.25	1,834.74	1,834.51	6.70	4.51	4.19	-3,976.21	4,588.90	5,943.53	5,932.68	10.85	547.794		
1,900.00	1,885.34	1,852.00	1,851.77	6.89	4.57	4.20	-3,976.18	4,588.68	5,932.29	5,921.25	11.04	537.172		
2,000.00	1,980.83	1,902.29	1,902.06	7.41	4.74	4.21	-3,976.03	4,588.49	5,902.23	5,890.66	11.57	510.007		
2,100.00	2,076.33	1,961.05	1,960.81	7.95	4.93	4.21	-3,975.69	4,588.99	5,872.87	5,860.74	12.13	484.314		
2,200.00	2,171.82	2,060.54	2,060.29	8.50	5.26	4.22	-3,974.67	4,590.60	5,843.79	5,830.97	12.82	456.003		
2,300.00	2,267.32	2,161.84	2,161.53	9.07	5.59	4.21	-3,972.59	4,593.03	5,814.62	5,801.10	13.52	430.127		
2,400.00	2,362.81	2,249.20	2,248.81	9.64	5.89	4.19	-3,970.00	4,595.79	5,785.44	5,771.26	14.18	407.918		
2,500.00	2,458.30	2,354.27	2,353.76	10.22	6.24	4.16	-3,966.60	4,599.53	5,756.38	5,741.47	14.91	386.063		
2,600.00	2,553.80	2,447.30	2,446.68	10.81	6.56	4.13	-3,963.54	4,602.67	5,727.14	5,711.54	15.60	367.029		
2,700.00	2,649.29	2,539.33	2,538.60	11.41	6.88	4.11	-3,960.42	4,605.98	5,698.01	5,681.71	16.30	349.601		
2,800.00	2,744.79	2,618.20	2,617.35	12.01	7.15	4.08	-3,957.48	4,609.15	5,668.98	5,652.02	16.95	334.374		
2,900.00	2,840.28	2,726.03	2,725.05	12.61	7.52	4.05	-3,953.97	4,613.18	5,640.03	5,622.33	17.71	318.518		
3,000.00	2,935.77	2,840.56	2,839.50	13.22	7.92	4.03	-3,951.18	4,616.22	5,610.81	5,592.33	18.48	303.554		
3,100.00	3,031.27	2,950.02	2,948.94	13.83	8.30	4.03	-3,949.57	4,617.75	5,581.30	5,562.05	19.25	290.012		
3,200.00	3,126.76	3,026.00	3,024.91	14.44	8.57	4.04	-3,948.80	4,618.59	5,551.84	5,531.94	19.90	278.986		
3,300.00	3,222.26	3,138.13	3,136.99	15.06	8.96	4.03	-3,946.58	4,620.85	5,522.46	5,501.79	20.67	267.125		
3,400.00	3,317.75	3,240.56	3,239.31	15.68	9.33	4.00	-3,942.95	4,624.01	5,492.87	5,471.45	21.42	256.436		
3,500.00	3,413.25	3,347.49	3,346.06	16.30	9.71	3.95	-3,937.99	4,627.90	5,462.97	5,440.79	22.18	246.263		
3,600.00	3,508.74	3,427.03	3,425.44	16.92	9.99	3.92	-3,934.16	4,631.04	5,433.21	5,410.35	22.86	237.659		
3,700.00	3,604.23	3,502.34	3,500.61	17.54	10.26	3.88	-3,930.80	4,634.13	5,403.78	5,380.25	23.53	229.679		
3,800.00	3,699.73	3,584.20	3,582.33	18.17	10.55	3.85	-3,927.45	4,637.56	5,374.65	5,350.44	24.22	221.948		
3,900.00	3,795.22	3,718.97	3,716.86	18.79	11.04	3.79	-3,921.60	4,643.06	5,345.29	5,320.21	25.07	213.192		
4,000.00	3,890.72	3,832.63	3,830.27	19.42	11.45	3.73	-3,915.71	4,647.85	5,315.51	5,289.65	25.86	205.515		
4,100.00	3,986.21	3,937.14	3,934.58	20.05	11.82	3.68	-3,910.43	4,651.49	5,285.27	5,258.64	26.63	198.486		
4,200.00	4,081.70	4,008.54	4,005.84	20.67	12.08	3.64	-3,906.80	4,654.18	5,255.25	5,227.96	27.29	192.571		
4,300.00	4,177.20	4,074.00	4,071.18	21.30	12.32	3.61	-3,903.98	4,656.78	5,225.82	5,197.88	27.93	187.073		
4,400.00	4,272.69	4,188.41	4,185.40	21.93	12.73	3.56	-3,899.10	4,661.44	5,196.52	5,167.79	28.73	180.872		
4,500.00	4,368.19	4,245.24	4,242.11	22.56	12.94	3.53	-3,896.60	4,664.04	5,167.43	5,138.08	29.35	176.051		
4,600.00	4,463.68	4,332.05	4,328.74	23.19	13.26	3.48	-3,892.89	4,668.31	5,138.74	5,108.68	30.07	170.915		
4,700.00	4,559.17	4,460.08	4,456.49	23.83	13.72	3.41	-3,887.16	4,674.46	5,109.87	5,078.96	30.91	165.334		
4,800.00	4,654.67	4,542.68	4,538.86	24.46	14.02	3.36	-3,882.85	4,678.69	5,080.75	5,049.14	31.61	160.725		
4,900.00	4,750.16	4,672.77	4,668.66	25.09	14.50	3.28	-3,876.45	4,684.74	5,051.50	5,019.04	32.46	155.635		
5,000.00	4,845.66	4,808.24	4,804.03	25.72	14.99	3.25	-3,872.38	4,687.24	5,021.32	4,988.01	33.31	150.747		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,891.02	4,886.74	26.36	15.29	3.23	-3,869.32	4,688.97	4,990.95	4,956.94	34.01	146.739		
5,200.00	5,036.65	4,964.37	4,960.01	26.99	15.55	3.20	-3,866.39	4,691.10	4,960.98	4,926.29	34.69	143.010		
5,300.00	5,132.14	5,042.85	5,038.35	27.63	15.84	3.16	-3,862.96	4,694.03	4,931.39	4,896.00	35.38	139.365		
5,400.00	5,227.63	5,169.59	5,164.81	28.26	16.30	3.08	-3,856.44	4,699.46	4,901.75	4,865.53	36.22	135.338		
5,500.00	5,323.13	5,240.07	5,235.13	28.90	16.56	3.03	-3,852.81	4,702.45	4,872.04	4,835.14	36.89	132.055		
5,600.00	5,418.62	5,305.21	5,300.14	29.53	16.80	3.00	-3,849.76	4,705.34	4,842.78	4,805.23	37.55	128.953		
5,700.00	5,514.12	5,377.47	5,372.24	30.17	17.07	2.95	-3,846.71	4,708.87	4,814.12	4,775.89	38.24	125.906		
5,800.00	5,609.61	5,471.11	5,466.67	30.80	17.41	2.89	-3,842.83	4,713.70	4,785.73	4,746.75	38.98	122.779		
5,900.00	5,705.10	5,589.64	5,583.91	31.44	17.85	2.81	-3,837.25	4,719.97	4,757.10	4,717.31	39.79	119.549		
6,000.00	5,800.60	5,699.72	5,693.72	32.08	18.25	2.74	-3,831.79	4,725.37	4,728.04	4,687.46	40.58	116.508		
6,100.00	5,896.09	5,798.20	5,792.02	32.71	18.61	2.68	-3,827.44	4,729.56	4,698.83	4,657.49	41.34	113.670		
6,200.00	5,991.59	5,916.35	5,909.92	33.35	19.05	2.60	-3,821.84	4,734.57	4,669.43	4,627.28	42.15	110.792		
6,300.00	6,087.08	6,009.36	6,002.75	33.99	19.39	2.54	-3,817.27	4,738.33	4,639.78	4,596.89	42.89	108.184		
6,400.00	6,182.57	6,092.95	6,086.16	34.62	19.70	2.48	-3,813.18	4,741.86	4,610.28	4,566.67	43.61	105.725		
6,499.99	6,278.06	6,172.73	6,165.78	35.26	19.99	2.43	-3,809.51	4,745.34	4,581.07	4,536.75	44.31	103.376		
6,505.95	6,283.75	6,177.45	6,170.50	35.30	20.01	2.43	-3,809.31	4,745.55	4,579.34	4,534.98	44.36	103.239		
6,600.00	6,374.00	6,284.10	6,276.97	35.88	20.40	2.34	-3,805.08	4,749.80	4,553.46	4,508.36	45.10	100.963		
6,700.00	6,470.87	6,389.99	6,382.77	36.44	20.78	2.28	-3,801.79	4,752.61	4,528.71	4,482.85	45.86	98.752		
6,800.00	6,568.53	6,477.12	6,469.89	36.96	21.09	2.25	-3,800.67	4,753.89	4,507.59	4,461.03	46.56	96.807		
6,900.00	6,666.89	6,591.25	6,584.01	37.43	21.49	2.23	-3,799.67	4,754.83	4,489.65	4,442.33	47.32	94.880		
7,000.00	6,765.82	6,680.70	6,673.46	37.85	21.81	2.22	-3,799.17	4,755.32	4,475.15	4,427.14	48.01	93.216		
7,100.00	6,865.19	6,768.51	6,761.26	38.22	22.12	2.21	-3,798.99	4,755.89	4,464.41	4,415.73	48.68	91.705		
7,200.00	6,964.89	6,866.98	6,859.73	38.55	22.46	2.20	-3,798.79	4,756.67	4,457.26	4,407.89	49.37	90.284		
7,300.00	7,064.80	6,966.05	6,958.80	38.83	22.80	2.19	-3,798.70	4,757.39	4,453.60	4,403.56	50.05	88.990		
7,353.65	7,118.45	7,018.55	7,011.30	38.96	22.99	2.19	-3,798.69	4,757.76	4,453.09	4,402.70	50.40	88.360		
7,369.20	7,134.00	7,033.72	7,026.46	39.00	23.04	129.19	-3,798.69	4,757.86	4,453.14	4,402.64	50.50	88.184		
7,400.00	7,164.80	7,063.68	7,056.43	39.06	23.14	129.19	-3,798.70	4,758.07	4,453.31	4,402.61	50.69	87.845		
7,469.20	7,234.00	7,129.65	7,122.39	39.22	23.37	129.19	-3,798.76	4,758.53	4,453.72	4,402.58	51.13	87.099		
7,500.00	7,264.78	7,155.49	7,148.23	39.29	23.46	-50.50	-3,798.78	4,758.74	4,453.41	4,402.08	51.33	86.769		
7,550.00	7,314.53	7,197.26	7,190.00	39.44	23.61	-50.75	-3,798.83	4,759.15	4,450.74	4,399.09	51.64	86.183		
7,600.00	7,363.66	7,240.51	7,233.25	39.62	23.76	-51.25	-3,798.90	4,759.67	4,445.40	4,393.44	51.97	85.539		
7,650.00	7,411.81	7,284.59	7,277.33	39.82	23.91	-52.01	-3,799.07	4,760.16	4,437.44	4,385.14	52.30	84.843		
7,700.00	7,458.61	7,323.99	7,316.72	40.06	24.04	-53.01	-3,799.31	4,760.58	4,426.92	4,374.29	52.63	84.119		
7,750.00	7,503.69	7,356.58	7,349.31	40.32	24.15	-54.24	-3,799.56	4,761.00	4,414.02	4,361.08	52.94	83.380		
7,800.00	7,546.72	7,387.75	7,380.47	40.60	24.26	-55.72	-3,799.82	4,761.48	4,398.87	4,345.62	53.25	82.608		
7,850.00	7,587.38	7,418.42	7,411.13	40.92	24.37	-57.46	-3,800.11	4,762.04	4,381.62	4,328.05	53.56	81.802		
7,900.00	7,625.34	7,448.95	7,441.65	41.25	24.47	-59.47	-3,800.46	4,762.63	4,362.40	4,308.51	53.88	80.964		
7,950.00	7,660.33	7,477.25	7,469.95	41.61	24.57	-61.75	-3,800.84	4,763.19	4,341.38	4,287.18	54.20	80.102		
8,000.00	7,692.07	7,503.14	7,495.83	42.00	24.66	-64.27	-3,801.24	4,763.71	4,318.76	4,264.24	54.52	79.219		
8,050.00	7,720.33	7,527.17	7,519.85	42.40	24.74	-67.04	-3,801.66	4,764.21	4,294.74	4,239.90	54.84	78.317		
8,100.00	7,744.89	7,548.28	7,540.96	42.83	24.81	-70.02	-3,802.06	4,764.64	4,269.53	4,214.37	55.16	77.400		
8,150.00	7,765.56	7,566.30	7,558.97	43.27	24.87	-73.18	-3,802.43	4,765.01	4,243.38	4,187.89	55.49	76.471		
8,200.00	7,782.18	7,581.07	7,573.73	43.74	24.92	-76.47	-3,802.76	4,765.32	4,216.50	4,160.67	55.82	75.534		
8,250.00	7,794.63	7,592.45	7,585.11	44.22	24.96	-79.84	-3,803.02	4,765.55	4,189.13	4,132.97	56.16	74.592		
8,300.00	7,802.82	7,602.95	7,595.60	44.71	25.00	-83.29	-3,803.26	4,765.77	4,161.51	4,105.00	56.51	73.643		
8,350.00	7,806.68	7,610.43	7,603.08	45.21	25.02	-86.72	-3,803.43	4,765.92	4,133.86	4,076.99	56.86	72.697		
8,369.28	7,807.00	7,611.56	7,604.21	45.40	25.03	-88.01	-3,803.46	4,765.94	4,123.24	4,066.24	57.00	72.337		
8,400.00	7,807.00	7,612.57	7,605.22	45.72	25.03	-88.02	-3,803.48	4,765.96	4,106.43	4,049.21	57.22	71.760		
8,500.00	7,807.00	7,615.80	7,608.44	46.77	25.04	-88.08	-3,803.55	4,766.03	4,052.86	3,994.81	58.05	69.820		
8,600.00	7,807.00	7,618.93	7,611.57	47.86	25.05	-88.13	-3,803.62	4,766.09	4,001.06	3,942.05	59.01	67.801		
8,700.00	7,807.00	7,621.96	7,614.61	48.99	25.06	-88.18	-3,803.68	4,766.15	3,951.11	3,891.00	60.12	65.725		
8,800.00	7,806.99	7,624.91	7,617.55	50.16	25.07	-88.23	-3,803.74	4,766.21	3,903.09	3,841.73	61.35	63.616		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,627.77	7,620.41	51.37	25.08	-88.28	-3,803.80	4,766.27	3,857.05	3,794.33	62.72	61.496		
9,000.00	7,806.99	7,630.54	7,623.18	52.60	25.09	-88.32	-3,803.86	4,766.32	3,813.09	3,748.88	64.21	59.385		
9,100.00	7,806.99	7,633.24	7,625.88	53.87	25.10	-88.37	-3,803.91	4,766.38	3,771.26	3,705.45	65.81	57.302		
9,200.00	7,806.99	7,635.86	7,628.50	55.17	25.11	-88.41	-3,803.96	4,766.43	3,731.64	3,664.12	67.52	55.264		
9,300.00	7,806.99	7,638.41	7,631.05	56.49	25.12	-88.45	-3,804.01	4,766.48	3,694.31	3,624.98	69.33	53.284		
9,400.00	7,806.99	7,640.89	7,633.52	57.83	25.13	-88.50	-3,804.06	4,766.53	3,659.32	3,588.10	71.23	51.375		
9,500.00	7,806.99	7,643.30	7,635.94	59.20	25.13	-88.54	-3,804.11	4,766.57	3,626.76	3,553.56	73.20	49.544		
9,600.00	7,806.98	7,645.65	7,638.28	60.59	25.14	-88.57	-3,804.15	4,766.62	3,596.68	3,521.43	75.25	47.799		
9,700.00	7,806.98	7,647.94	7,640.57	62.00	25.15	-88.61	-3,804.19	4,766.66	3,569.15	3,491.80	77.35	46.144		
9,800.00	7,806.98	7,650.17	7,642.80	63.43	25.16	-88.65	-3,804.23	4,766.71	3,544.22	3,464.72	79.50	44.582		
9,900.00	7,806.98	7,652.34	7,644.97	64.87	25.16	-88.69	-3,804.27	4,766.75	3,521.96	3,440.27	81.69	43.114		
10,000.00	7,806.98	7,654.45	7,647.08	66.34	25.17	-88.72	-3,804.31	4,766.79	3,502.41	3,418.50	83.91	41.740		
10,100.00	7,806.98	7,656.52	7,649.14	67.81	25.18	-88.76	-3,804.34	4,766.83	3,485.62	3,399.47	86.15	40.460		
10,200.00	7,806.98	7,658.53	7,651.16	69.30	25.19	-88.79	-3,804.38	4,766.87	3,471.63	3,383.23	88.40	39.273		
10,300.00	7,806.98	7,660.49	7,653.12	70.81	25.19	-88.82	-3,804.41	4,766.90	3,460.47	3,369.83	90.65	38.175		
10,400.00	7,806.97	7,662.41	7,655.03	72.32	25.20	-88.85	-3,804.44	4,766.94	3,452.18	3,359.29	92.89	37.165		
10,500.00	7,806.97	7,664.28	7,656.90	73.85	25.20	-88.88	-3,804.48	4,766.97	3,446.77	3,351.66	95.11	36.240		
10,600.00	7,806.97	7,666.11	7,658.73	75.39	25.21	-88.91	-3,804.51	4,767.01	3,444.25	3,346.94	97.30	35.397		
10,636.81	7,806.97	7,666.77	7,659.39	75.96	25.21	-88.93	-3,804.52	4,767.02	3,444.05	3,345.94	98.11	35.106 CC		
10,700.00	7,806.97	7,667.89	7,660.51	76.94	25.22	-88.94	-3,804.53	4,767.04	3,444.63	3,345.16	99.47	34.631 ES		
10,800.00	7,806.97	7,669.63	7,662.26	78.49	25.22	-88.97	-3,804.56	4,767.08	3,447.91	3,346.33	101.58	33.941		
10,900.00	7,806.97	7,671.34	7,663.96	80.06	25.23	-89.00	-3,804.59	4,767.11	3,454.09	3,350.43	103.65	33.323		
11,000.00	7,806.97	7,673.00	7,666.63	81.64	25.23	-89.03	-3,804.62	4,767.14	3,463.14	3,357.47	105.67	32.773		
11,100.00	7,806.97	7,674.63	7,667.26	83.22	25.24	-89.06	-3,804.64	4,767.17	3,475.05	3,367.42	107.63	32.288		
11,200.00	7,806.96	7,676.23	7,668.85	84.81	25.25	-89.08	-3,804.66	4,767.20	3,489.78	3,380.27	109.52	31.866		
11,300.00	7,806.96	7,677.79	7,670.41	86.41	25.25	-89.11	-3,804.69	4,767.23	3,507.30	3,395.97	111.34	31.502		
11,400.00	7,806.96	7,679.31	7,671.93	88.01	25.26	-89.13	-3,804.71	4,767.26	3,527.58	3,414.49	113.08	31.194		
11,500.00	7,806.96	7,680.80	7,673.43	89.63	25.26	-89.16	-3,804.73	4,767.28	3,550.55	3,435.79	114.76	30.940		
11,600.00	7,806.96	7,682.27	7,674.89	91.24	25.27	-89.18	-3,804.75	4,767.31	3,576.17	3,459.81	116.35	30.735		
11,700.00	7,806.96	7,683.70	7,676.32	92.87	25.27	-89.21	-3,804.78	4,767.34	3,604.38	3,486.51	117.87	30.579		
11,800.00	7,806.96	7,685.10	7,677.72	94.49	25.28	-89.23	-3,804.80	4,767.36	3,635.13	3,515.82	119.31	30.468		
11,900.00	7,806.95	7,686.47	7,679.09	96.13	25.28	-89.25	-3,804.82	4,767.39	3,668.34	3,547.67	120.67	30.399		
12,000.00	7,806.95	7,687.82	7,680.44	97.77	25.29	-89.28	-3,804.83	4,767.41	3,703.96	3,582.00	121.95	30.372 SF		
12,100.00	7,806.95	7,689.14	7,681.76	99.41	25.29	-89.30	-3,804.85	4,767.44	3,741.91	3,618.75	123.16	30.382		
12,200.00	7,806.95	7,690.43	7,683.05	101.06	25.29	-89.32	-3,804.87	4,767.46	3,782.12	3,657.83	124.29	30.430		
12,300.00	7,806.95	7,691.70	7,684.32	102.71	25.30	-89.34	-3,804.89	4,767.48	3,824.53	3,699.18	125.35	30.512		
12,400.00	7,806.95	7,693.04	7,685.66	104.37	25.30	-89.36	-3,804.91	4,767.51	3,869.05	3,742.72	126.33	30.626		
12,500.00	7,806.95	7,694.40	7,687.02	106.02	25.31	-89.39	-3,804.92	4,767.53	3,915.63	3,788.38	127.25	30.772		
12,600.00	7,806.95	7,695.76	7,688.38	107.69	25.31	-89.41	-3,804.94	4,767.56	3,964.18	3,836.08	128.10	30.947		
12,700.00	7,806.94	7,697.11	7,689.73	109.35	25.32	-89.43	-3,804.96	4,767.58	4,014.63	3,885.75	128.88	31.149		
12,800.00	7,806.94	7,698.46	7,691.08	111.02	25.32	-89.45	-3,804.98	4,767.61	4,066.91	3,937.31	129.61	31.379		
12,900.00	7,806.94	7,699.81	7,692.42	112.70	25.33	-89.48	-3,805.00	4,767.63	4,120.96	3,990.69	130.27	31.633		
13,000.00	7,806.94	7,701.15	7,693.76	114.37	25.33	-89.50	-3,805.02	4,767.65	4,176.71	4,045.82	130.89	31.911		
13,100.00	7,806.94	7,702.48	7,695.10	116.05	25.34	-89.52	-3,805.03	4,767.68	4,234.08	4,102.63	131.45	32.212		
13,200.00	7,806.94	7,703.81	7,696.42	117.74	25.34	-89.54	-3,805.05	4,767.70	4,293.01	4,161.06	131.96	32.534		
13,300.00	7,806.94	7,705.13	7,697.75	119.42	25.34	-89.56	-3,805.07	4,767.73	4,353.44	4,221.02	132.42	32.876		
13,400.00	7,806.94	7,706.46	7,699.07	121.11	25.35	-89.59	-3,805.09	4,767.75	4,415.31	4,282.47	132.84	33.238		
13,500.00	7,806.93	7,707.77	7,700.38	122.80	25.35	-89.61	-3,805.10	4,767.77	4,478.56	4,345.34	133.22	33.618		
13,600.00	7,806.93	7,709.08	7,701.70	124.49	25.36	-89.63	-3,805.12	4,767.80	4,543.13	4,409.57	133.56	34.016		
13,700.00	7,806.93	7,710.39	7,703.00	126.18	25.36	-89.65	-3,805.14	4,767.82	4,608.96	4,475.10	133.87	34.430		
13,800.00	7,806.93	7,711.69	7,704.30	127.88	25.37	-89.67	-3,805.16	4,767.85	4,676.01	4,541.87	134.14	34.860		
13,900.00	7,806.93	7,712.99	7,705.60	129.58	25.37	-89.69	-3,805.17	4,767.87	4,744.22	4,609.84	134.38	35.305		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,714.28	7,706.89	131.28	25.38	-89.72	-3,805.19	4,767.89	4,813.53	4,678.94	134.59	35.765		
14,100.00	7,806.93	7,715.57	7,708.18	132.98	25.38	-89.74	-3,805.21	4,767.91	4,883.91	4,749.14	134.77	36.238		
14,200.00	7,806.93	7,716.85	7,709.46	134.68	25.38	-89.76	-3,805.22	4,767.94	4,955.31	4,820.37	134.93	36.724		
14,300.00	7,806.92	7,718.13	7,710.74	136.39	25.39	-89.78	-3,805.24	4,767.96	5,027.68	4,892.61	135.07	37.222		
14,400.00	7,806.92	7,719.41	7,712.02	138.10	25.39	-89.80	-3,805.26	4,767.98	5,100.99	4,965.80	135.19	37.733		
14,500.00	7,806.92	7,720.68	7,713.29	139.81	25.40	-89.82	-3,805.27	4,768.01	5,175.19	5,039.90	135.28	38.254		
14,600.00	7,806.92	7,721.94	7,714.55	141.52	25.40	-89.84	-3,805.29	4,768.03	5,250.24	5,114.88	135.36	38.787		
14,700.00	7,806.92	7,723.21	7,715.82	143.23	25.41	-89.86	-3,805.31	4,768.05	5,326.12	5,190.69	135.42	39.330		
14,800.00	7,806.92	7,724.46	7,717.07	144.94	25.41	-89.89	-3,805.32	4,768.07	5,402.78	5,267.31	135.47	39.882		
14,900.00	7,806.92	7,725.72	7,718.33	146.66	25.42	-89.91	-3,805.34	4,768.10	5,480.19	5,344.69	135.50	40.444		
15,000.00	7,806.92	7,726.97	7,719.57	148.37	25.42	-89.93	-3,805.36	4,768.12	5,558.32	5,422.80	135.52	41.015		
15,100.00	7,806.91	7,728.21	7,720.82	150.09	25.42	-89.95	-3,805.37	4,768.14	5,637.15	5,501.62	135.53	41.594		
15,200.00	7,806.91	7,729.45	7,722.06	151.81	25.43	-89.97	-3,805.39	4,768.16	5,716.63	5,581.11	135.52	42.182		
15,300.00	7,806.91	7,730.69	7,723.29	153.53	25.43	-89.99	-3,805.40	4,768.19	5,796.75	5,661.24	135.51	42.777		
15,400.00	7,806.91	7,731.92	7,724.53	155.25	25.44	-90.01	-3,805.42	4,768.21	5,877.48	5,742.00	135.49	43.380		
15,500.00	7,806.91	7,733.15	7,725.75	156.97	25.44	-90.03	-3,805.43	4,768.23	5,958.80	5,823.34	135.46	43.990		
15,600.00	7,806.91	7,734.37	7,726.98	158.70	25.44	-90.05	-3,805.45	4,768.25	6,040.67	5,905.25	135.42	44.607		
15,700.00	7,806.91	7,735.59	7,728.20	160.42	25.45	-90.07	-3,805.47	4,768.27	6,123.08	5,987.71	135.37	45.231		
15,800.00	7,806.91	7,736.80	7,729.41	162.15	25.45	-90.09	-3,805.48	4,768.29	6,206.01	6,070.69	135.32	45.861		
15,900.00	7,806.90	7,738.02	7,730.62	163.88	25.46	-90.11	-3,805.50	4,768.32	6,289.44	6,154.17	135.27	46.497		
16,000.00	7,806.90	7,739.22	7,731.83	165.60	25.46	-90.13	-3,805.51	4,768.34	6,373.34	6,238.14	135.20	47.139		
16,100.00	7,806.90	7,740.43	7,733.03	167.33	25.47	-90.15	-3,805.53	4,768.36	6,457.70	6,322.56	135.14	47.786		
16,200.00	7,806.90	7,741.62	7,734.23	169.06	25.47	-90.17	-3,805.54	4,768.38	6,542.50	6,407.44	135.07	48.438		
16,300.00	7,806.90	7,742.82	7,735.42	170.79	25.47	-90.19	-3,805.56	4,768.40	6,627.73	6,492.73	135.00	49.096		
16,400.00	7,806.90	7,744.01	7,736.62	172.52	25.48	-90.21	-3,805.57	4,768.42	6,713.36	6,578.44	134.92	49.759		
16,500.00	7,806.90	7,745.20	7,737.80	174.26	25.48	-90.23	-3,805.59	4,768.44	6,799.39	6,664.55	134.84	50.426		
16,600.00	7,806.89	7,746.38	7,738.98	175.99	25.49	-90.25	-3,805.60	4,768.46	6,885.79	6,751.03	134.76	51.098		
16,700.00	7,806.89	7,747.56	7,740.16	177.72	25.49	-90.27	-3,805.62	4,768.48	6,972.55	6,837.88	134.67	51.774		
16,800.00	7,806.89	7,748.73	7,741.34	179.46	25.49	-90.29	-3,805.63	4,768.51	7,059.67	6,925.08	134.59	52.454		
16,900.00	7,806.89	7,749.91	7,742.51	181.19	25.50	-90.31	-3,805.65	4,768.53	7,147.12	7,012.62	134.50	53.138		
17,000.00	7,806.89	7,751.07	7,743.68	182.93	25.50	-90.33	-3,805.66	4,768.55	7,234.90	7,100.48	134.41	53.826		
17,100.00	7,806.89	7,752.24	7,744.84	184.67	25.51	-90.35	-3,805.68	4,768.57	7,322.99	7,188.66	134.32	54.517		
17,200.00	7,806.89	7,753.40	7,746.00	186.40	25.51	-90.37	-3,805.69	4,768.59	7,411.38	7,277.14	134.23	55.213		
17,300.00	7,806.89	7,754.55	7,747.15	188.14	25.51	-90.39	-3,805.70	4,768.61	7,500.06	7,365.92	134.14	55.911		
17,400.00	7,806.88	7,755.70	7,748.31	189.88	25.52	-90.40	-3,805.72	4,768.63	7,589.03	7,454.98	134.05	56.613		
17,500.00	7,806.88	7,756.85	7,749.45	191.62	25.52	-90.42	-3,805.73	4,768.65	7,678.26	7,544.30	133.96	57.318		
17,600.00	7,806.88	7,758.00	7,750.60	193.36	25.53	-90.44	-3,805.75	4,768.67	7,767.76	7,633.89	133.87	58.025		
17,700.00	7,806.88	7,759.14	7,751.74	195.10	25.53	-90.46	-3,805.76	4,768.69	7,857.51	7,723.74	133.78	58.736		
17,800.00	7,806.88	7,760.27	7,752.88	196.84	25.53	-90.48	-3,805.78	4,768.71	7,947.51	7,813.82	133.69	59.449		
17,900.00	7,806.88	7,761.41	7,754.01	198.58	25.54	-90.50	-3,805.79	4,768.73	8,037.74	7,904.15	133.59	60.166		
18,000.00	7,806.88	7,762.54	7,755.14	200.33	25.54	-90.52	-3,805.80	4,768.75	8,128.20	7,994.70	133.50	60.884		
18,027.46	7,807.00	7,762.95	7,755.56	200.80	25.54	-90.52	-3,805.81	4,768.76	8,153.20	8,019.71	133.48	61.080		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	130.80	-3,992.43	4,625.77	6,111.00					
100.00	100.00	0.00	0.00	0.13	0.00	130.80	-3,992.43	4,625.77	6,110.45	6,110.31	0.13	N/A		
200.00	200.00	61.00	61.00	0.49	0.09	130.80	-3,992.68	4,626.05	6,111.05	6,110.47	0.58	N/A		
300.00	300.00	95.30	95.30	0.85	0.21	130.80	-3,993.15	4,626.40	6,112.56	6,111.50	1.06	5,776.046		
400.00	400.00	188.30	188.27	1.21	0.54	130.81	-3,994.89	4,627.21	6,114.45	6,112.70	1.75	3,494.582		
500.00	500.00	254.94	254.87	1.57	0.78	130.82	-3,997.12	4,627.28	6,116.75	6,114.40	2.35	2,605.774		
600.00	600.00	324.00	323.84	1.93	1.04	130.85	-4,000.60	4,626.87	6,119.61	6,116.66	2.96	2,070.263		
700.00	700.00	359.46	359.22	2.29	1.17	130.87	-4,002.92	4,626.58	6,123.28	6,119.83	3.44	1,777.867		
800.00	800.00	433.41	432.94	2.64	1.45	130.91	-4,008.79	4,625.67	6,127.59	6,123.51	4.08	1,503.029		
900.00	900.00	488.87	488.15	3.00	1.66	130.96	-4,013.92	4,624.81	6,132.53	6,127.89	4.64	1,320.581		
1,000.00	1,000.00	523.44	522.56	3.36	1.79	130.98	-4,017.32	4,624.51	6,138.39	6,133.25	5.13	1,196.241		
1,100.00	1,099.98	556.41	555.32	3.71	1.92	3.99	-4,020.90	4,624.45	6,143.61	6,138.02	5.60	1,097.501		
1,200.00	1,199.84	585.34	584.06	4.04	2.04	4.01	-4,024.28	4,624.56	6,146.46	6,140.42	6.04	1,017.911		
1,300.00	1,299.45	615.81	614.27	4.39	2.16	4.04	-4,028.19	4,624.89	6,147.00	6,140.51	6.49	947.234		
1,400.00	1,398.70	659.00	657.06	4.74	2.34	4.08	-4,034.08	4,625.66	6,145.11	6,138.11	7.00	878.441		
1,500.00	1,497.47	707.67	705.21	5.12	2.55	4.14	-4,041.12	4,626.60	6,140.54	6,133.01	7.53	815.569		
1,600.00	1,595.62	738.07	735.22	5.51	2.68	4.18	-4,045.85	4,627.30	6,133.51	6,125.52	7.99	767.274		
1,700.00	1,693.06	774.59	771.23	5.94	2.84	4.24	-4,051.85	4,628.44	6,124.13	6,115.64	8.49	721.242		
1,800.00	1,789.64	813.00	809.02	6.39	3.01	4.30	-4,058.63	4,629.64	6,112.25	6,103.25	9.00	679.294		
1,863.26	1,850.25	857.12	852.34	6.70	3.21	4.38	-4,066.90	4,630.97	6,103.34	6,093.93	9.41	648.604		
1,900.00	1,885.34	877.00	871.83	6.89	3.30	4.40	-4,070.75	4,631.54	6,097.89	6,088.26	9.62	633.582		
2,000.00	1,980.83	931.08	924.82	7.41	3.56	4.48	-4,081.40	4,633.29	6,083.55	6,073.34	10.21	595.598		
2,100.00	2,076.33	1,007.85	999.98	7.95	3.93	4.59	-4,096.77	4,636.32	6,069.94	6,059.04	10.91	556.615		
2,200.00	2,171.82	1,146.95	1,136.01	8.50	4.61	4.80	-4,125.57	4,640.15	6,055.98	6,044.10	11.88	509.661		
2,300.00	2,267.32	1,218.38	1,205.78	9.07	4.96	4.92	-4,140.81	4,641.59	6,041.99	6,029.42	12.57	480.547		
2,400.00	2,262.81	1,389.52	1,372.83	9.64	5.82	5.21	-4,177.91	4,643.85	6,027.84	6,014.12	13.72	439.295		
2,500.00	2,458.30	1,522.01	1,502.30	10.22	6.49	5.44	-4,206.04	4,644.43	6,012.76	5,998.06	14.70	409.025		
2,600.00	2,553.80	1,590.72	1,569.42	10.81	6.83	5.56	-4,220.71	4,644.51	5,997.58	5,982.19	15.39	389.600		
2,700.00	2,649.29	1,629.00	1,606.72	11.41	7.03	5.64	-4,229.33	4,644.67	5,983.32	5,967.37	15.95	375.039		
2,800.00	2,744.79	1,629.00	1,606.72	12.01	7.03	5.64	-4,229.33	4,644.67	5,970.29	5,953.95	16.34	365.441		
2,900.00	2,840.28	1,661.00	1,637.76	12.61	7.20	5.70	-4,237.09	4,645.30	5,958.62	5,941.75	16.87	353.182		
3,000.00	2,935.77	1,759.60	1,733.29	13.22	7.74	5.88	-4,261.38	4,647.77	5,947.62	5,929.90	17.72	335.639		
3,100.00	3,031.27	1,911.99	1,881.54	13.83	8.54	6.13	-4,296.06	4,653.86	5,936.57	5,917.77	18.80	315.706		
3,200.00	3,126.76	1,982.08	1,949.73	14.44	8.91	6.25	-4,312.09	4,656.13	5,924.96	5,905.45	19.51	303.672		
3,300.00	3,222.26	2,131.55	2,095.56	15.06	9.68	6.49	-4,344.33	4,662.16	5,912.98	5,892.41	20.57	287.481		
3,400.00	3,317.75	2,328.99	2,288.63	15.68	10.67	6.79	-4,384.96	4,669.24	5,900.21	5,878.38	21.82	270.350		
3,500.00	3,413.25	2,486.00	2,442.54	16.30	11.45	7.04	-4,415.65	4,673.84	5,886.33	5,863.43	22.90	257.087		
3,600.00	3,508.74	2,543.90	2,499.33	16.92	11.74	7.13	-4,426.88	4,675.17	5,871.86	5,848.31	23.55	249.362		
3,700.00	3,604.23	2,599.64	2,553.86	17.54	12.02	7.22	-4,438.34	4,676.51	5,858.24	5,834.05	24.19	242.171		
3,800.00	3,699.73	2,676.00	2,628.52	18.17	12.40	7.34	-4,454.19	4,678.70	5,845.16	5,820.24	24.93	234.504		
3,900.00	3,795.22	2,741.76	2,692.83	18.79	12.74	7.45	-4,467.71	4,681.15	5,832.58	5,806.97	25.61	227.743		
4,000.00	3,890.72	2,894.78	2,842.67	19.42	13.50	7.68	-4,498.13	4,687.47	5,819.83	5,793.16	26.67	218.257		
4,100.00	3,986.21	2,962.00	2,908.50	20.05	13.84	7.78	-4,511.43	4,690.18	5,806.97	5,779.62	27.35	212.286		
4,200.00	4,081.70	3,134.52	3,077.52	20.67	14.69	8.05	-4,545.51	4,695.86	5,793.56	5,765.07	28.49	203.324		
4,300.00	4,177.20	3,207.48	3,148.86	21.30	15.06	8.18	-4,560.75	4,696.96	5,779.88	5,750.66	29.22	197.798		
4,400.00	4,272.69	3,298.21	3,237.49	21.93	15.53	8.34	-4,580.11	4,698.57	5,766.73	5,736.71	30.03	192.052		
4,500.00	4,368.19	3,468.33	3,404.06	22.56	16.38	8.64	-4,614.54	4,701.41	5,752.68	5,721.51	31.17	184.560		
4,600.00	4,463.68	3,533.00	3,467.38	23.19	16.70	8.76	-4,627.66	4,702.32	5,738.62	5,706.76	31.86	180.114		
4,700.00	4,559.17	3,632.39	3,564.64	23.83	17.20	8.93	-4,648.00	4,703.91	5,724.90	5,692.20	32.70	175.063		
4,800.00	4,654.67	3,684.04	3,615.19	24.46	17.46	9.02	-4,658.55	4,705.04	5,711.58	5,678.24	33.34	171.333		
4,900.00	4,750.16	4,040.49	3,965.55	25.09	19.17	9.59	-4,723.20	4,713.88	5,697.89	5,662.70	35.19	161.927		
5,000.00	4,845.66	4,105.00	4,029.17	25.72	19.46	9.69	-4,733.84	4,714.70	5,681.09	5,645.22	35.87	158.382		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,129.48	4,053.28	26.36	19.58	9.73	-4,738.03	4,715.18	5,665.12	5,628.72	36.40	155.650		
5,200.00	5,036.65	4,169.30	4,092.47	26.99	19.77	9.79	-4,745.04	4,716.23	5,650.23	5,613.25	36.98	152.788		
5,300.00	5,132.14	4,367.62	4,287.69	27.63	20.70	10.09	-4,779.44	4,721.80	5,635.61	5,597.43	38.19	147.587		
5,400.00	5,227.63	4,422.00	4,341.23	28.26	20.95	10.18	-4,788.94	4,722.57	5,619.91	5,581.08	38.83	144.732		
5,500.00	5,323.13	4,485.00	4,403.27	28.90	21.25	10.28	-4,799.71	4,724.41	5,604.96	5,565.46	39.50	141.881		
5,600.00	5,418.62	4,562.27	4,479.48	29.53	21.60	10.38	-4,811.84	4,728.36	5,590.47	5,550.25	40.22	138.990		
5,700.00	5,514.12	4,802.00	4,715.87	30.17	22.69	10.72	-4,850.61	4,737.00	5,575.87	5,534.32	41.55	134.192		
5,800.00	5,609.61	4,864.70	4,777.83	30.80	22.97	10.81	-4,860.15	4,738.52	5,559.37	5,517.15	42.22	131.662		
5,900.00	5,705.10	4,926.37	4,838.67	31.44	23.26	10.90	-4,870.06	4,740.28	5,543.72	5,500.82	42.90	129.233		
6,000.00	5,800.60	5,121.31	5,030.70	32.08	24.16	11.24	-4,903.56	4,741.90	5,527.80	5,483.72	44.09	125.387		
6,100.00	5,896.09	6,100.00	5,153.99	32.71	28.55	11.46	-4,923.87	4,742.09	5,510.69	5,462.21	48.49	113.655		
6,200.00	5,991.59	5,357.17	5,263.66	33.35	25.21	11.64	-4,940.25	4,742.75	5,492.74	5,446.89	45.86	119.784		
6,300.00	6,087.08	5,424.38	5,330.15	33.99	25.51	11.74	-4,950.06	4,743.73	5,475.31	5,428.76	46.55	117.618		
6,400.00	6,182.57	5,475.40	5,380.55	34.62	25.74	11.82	-4,957.98	4,744.52	5,458.64	5,411.44	47.19	115.670		
6,499.99	6,278.06	5,597.82	5,501.45	35.26	26.28	12.02	-4,976.97	4,747.24	5,442.51	5,394.43	48.09	113.183		
6,505.95	6,283.75	5,609.41	5,512.91	35.30	26.34	12.03	-4,978.61	4,747.59	5,441.52	5,393.36	48.15	113.001		
6,600.00	6,374.00	5,640.61	5,543.75	35.88	26.48	12.02	-4,983.30	4,748.60	5,427.88	5,379.19	48.69	111.485		
6,700.00	6,470.87	5,849.86	5,750.70	36.44	27.39	12.24	-5,013.26	4,755.71	5,416.86	5,367.01	49.85	108.662		
6,800.00	6,568.53	6,800.00	6,160.63	36.96	30.94	12.64	-5,056.64	4,761.87	5,405.09	5,351.63	53.46	101.113		
6,900.00	6,666.89	6,602.05	6,500.00	37.43	30.13	12.85	-5,073.46	4,760.86	5,390.58	5,337.76	52.81	102.068		
7,000.00	6,765.82	6,730.22	6,628.12	37.85	30.52	12.86	-5,076.49	4,759.81	5,377.62	5,324.06	53.56	100.397		
7,100.00	6,865.19	6,867.13	6,765.02	38.22	30.93	12.88	-5,078.52	4,758.81	5,367.44	5,313.13	54.31	98.831		
7,200.00	6,964.89	6,979.18	6,877.05	38.55	31.25	12.88	-5,079.74	4,757.67	5,360.17	5,305.18	54.99	97.473		
7,300.00	7,064.80	7,087.20	6,985.06	38.83	31.55	12.89	-5,080.74	4,756.49	5,356.12	5,300.46	55.65	96.243		
7,369.20	7,134.00	7,163.99	7,061.84	39.00	31.77	13.90	-5,081.28	4,755.68	5,355.20	5,299.10	56.10	95.462		
7,400.00	7,164.80	7,189.09	7,086.95	39.06	31.84	13.91	-5,081.43	4,755.44	5,355.16	5,298.88	56.28	95.157		
7,469.20	7,234.00	7,251.48	7,149.33	39.22	32.02	13.91	-5,081.80	4,754.96	5,355.12	5,298.43	56.69	94.462		
7,496.31	7,261.10	7,277.43	7,175.28	39.28	32.09	-39.78	-5,081.93	4,754.81	5,354.64	5,297.78	56.86	94.177		
7,500.00	7,264.78	7,280.95	7,178.81	39.29	32.10	-39.79	-5,081.95	4,754.79	5,354.49	5,297.61	56.88	94.137		
7,550.00	7,314.53	7,328.61	7,226.46	39.44	32.24	-40.05	-5,082.17	4,754.57	5,350.79	5,293.60	57.19	93.563		
7,600.00	7,363.66	7,392.09	7,289.94	39.62	32.42	-40.59	-5,082.38	4,754.30	5,343.73	5,286.21	57.52	92.899		
7,650.00	7,411.81	7,450.07	7,347.92	39.82	32.58	-41.40	-5,082.43	4,753.94	5,333.26	5,275.42	57.84	92.205		
7,700.00	7,458.61	7,488.77	7,386.62	40.06	32.69	-42.45	-5,082.44	4,753.74	5,319.66	5,261.53	58.12	91.524		
7,750.00	7,503.69	7,526.06	7,423.91	40.32	32.79	-43.77	-5,082.46	4,753.63	5,303.09	5,244.69	58.40	90.812		
7,800.00	7,546.72	7,559.34	7,457.18	40.60	32.88	-45.39	-5,082.49	4,753.60	5,283.69	5,225.04	58.66	90.079		
7,850.00	7,587.38	7,590.45	7,488.30	40.92	32.97	-47.33	-5,082.54	4,753.64	5,261.65	5,202.75	58.90	89.325		
7,900.00	7,625.34	7,619.54	7,517.39	41.25	33.06	-49.61	-5,082.61	4,753.72	5,237.14	5,178.00	59.14	88.555		
7,950.00	7,660.33	7,652.60	7,550.45	41.61	33.15	-52.31	-5,082.69	4,753.88	5,210.34	5,150.97	59.37	87.760		
8,000.00	7,692.07	7,684.69	7,582.54	42.00	33.24	-55.44	-5,082.72	4,754.09	5,181.45	5,121.86	59.59	86.954		
8,050.00	7,720.33	7,713.17	7,611.01	42.40	33.32	-59.00	-5,082.71	4,754.30	5,150.71	5,090.92	59.79	86.143		
8,100.00	7,744.89	7,735.12	7,632.96	42.83	33.38	-62.95	-5,082.69	4,754.50	5,118.39	5,058.41	59.98	85.339		
8,150.00	7,765.56	7,752.29	7,650.13	43.27	33.43	-67.29	-5,082.66	4,754.67	5,084.77	5,024.62	60.15	84.538		
8,200.00	7,782.18	7,766.07	7,663.91	43.74	33.47	-71.98	-5,082.64	4,754.83	5,050.12	4,989.81	60.31	83.740		
8,250.00	7,794.63	7,776.37	7,674.21	44.22	33.50	-76.96	-5,082.62	4,754.95	5,014.73	4,954.27	60.46	82.948		
8,300.00	7,802.82	7,783.10	7,680.94	44.71	33.52	-82.13	-5,082.61	4,755.04	4,978.88	4,918.28	60.60	82.163		
8,350.00	7,806.68	7,786.23	7,684.07	45.21	33.52	-87.35	-5,082.60	4,755.08	4,942.85	4,882.12	60.73	81.388		
8,369.28	7,807.00	7,786.47	7,684.31	45.40	33.53	-89.35	-5,082.60	4,755.08	4,928.97	4,868.18	60.78	81.093		
8,400.00	7,807.00	7,786.42	7,684.26	45.72	33.52	-89.35	-5,082.60	4,755.08	4,906.91	4,846.05	60.87	80.619		
8,500.00	7,807.00	7,786.25	7,684.10	46.77	33.52	-89.35	-5,082.60	4,755.08	4,835.79	4,774.58	61.21	79.006		
8,600.00	7,807.00	7,786.09	7,683.93	47.86	33.52	-89.35	-5,082.60	4,755.08	4,765.70	4,704.04	61.66	77.290		
8,700.00	7,807.00	7,785.93	7,683.77	48.99	33.52	-89.34	-5,082.60	4,755.08	4,696.69	4,634.47	62.23	75.477		
8,800.00	7,806.99	7,785.77	7,683.61	50.16	33.52	-89.34	-5,082.60	4,755.08	4,628.82	4,565.91	62.91	73.575		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	7,785.61	7,683.45	51.37	33.52	-89.34	-5,082.60	4,755.07	4,562.13	4,498.41	63.72	71.596		
9,000.00	7,806.99	7,785.44	7,683.29	52.60	33.52	-89.34	-5,082.60	4,755.07	4,496.67	4,432.02	64.65	69.553		
9,100.00	7,806.99	7,785.28	7,683.12	53.87	33.52	-89.33	-5,082.60	4,755.07	4,432.50	4,366.80	65.71	67.459		
9,200.00	7,806.99	7,785.12	7,682.96	55.17	33.52	-89.33	-5,082.60	4,755.07	4,369.68	4,302.80	66.88	65.331		
9,300.00	7,806.99	7,784.96	7,682.80	56.49	33.52	-89.33	-5,082.60	4,755.06	4,308.27	4,240.08	68.19	63.184		
9,400.00	7,806.99	7,784.80	7,682.64	57.83	33.52	-89.33	-5,082.60	4,755.06	4,248.32	4,178.71	69.61	61.033		
9,500.00	7,806.99	7,784.64	7,682.48	59.20	33.52	-89.32	-5,082.60	4,755.06	4,189.90	4,118.75	71.14	58.893		
9,600.00	7,806.98	7,784.48	7,682.32	60.59	33.52	-89.32	-5,082.60	4,755.06	4,133.07	4,060.28	72.79	56.777		
9,700.00	7,806.98	7,784.32	7,682.17	62.00	33.52	-89.32	-5,082.60	4,755.06	4,077.91	4,003.35	74.55	54.697		
9,800.00	7,806.98	7,784.17	7,682.01	63.43	33.52	-89.31	-5,082.60	4,755.05	4,024.47	3,948.05	76.42	52.664		
9,900.00	7,806.98	7,784.01	7,681.85	64.87	33.52	-89.31	-5,082.60	4,755.05	3,972.83	3,894.45	78.38	50.687		
10,000.00	7,806.98	7,783.85	7,681.69	66.34	33.52	-89.31	-5,082.61	4,755.05	3,923.07	3,842.63	80.44	48.772		
10,100.00	7,806.98	7,783.69	7,681.53	67.81	33.52	-89.31	-5,082.61	4,755.05	3,875.24	3,792.66	82.58	46.928		
10,200.00	7,806.98	7,783.53	7,681.38	69.30	33.52	-89.30	-5,082.61	4,755.05	3,829.43	3,744.63	84.80	45.157		
10,300.00	7,806.98	7,783.38	7,681.22	70.81	33.52	-89.30	-5,082.61	4,755.04	3,785.71	3,698.61	87.10	43.464		
10,400.00	7,806.97	7,783.22	7,681.06	72.32	33.52	-89.30	-5,082.61	4,755.04	3,744.14	3,654.68	89.46	41.850		
10,500.00	7,806.97	7,783.06	7,680.91	73.85	33.52	-89.30	-5,082.61	4,755.04	3,704.82	3,612.93	91.89	40.318		
10,600.00	7,806.97	7,782.91	7,680.75	75.39	33.52	-89.29	-5,082.61	4,755.04	3,667.79	3,573.43	94.36	38.868		
10,700.00	7,806.97	7,782.75	7,680.59	76.94	33.51	-89.29	-5,082.61	4,755.04	3,633.14	3,536.26	96.88	37.500		
10,800.00	7,806.97	7,782.60	7,680.44	78.49	33.51	-89.29	-5,082.61	4,755.03	3,600.94	3,501.50	99.44	36.213		
10,900.00	7,806.97	7,782.44	7,680.28	80.06	33.51	-89.29	-5,082.61	4,755.03	3,571.25	3,469.23	102.02	35.006		
11,000.00	7,806.97	7,782.29	7,680.13	81.64	33.51	-89.28	-5,082.61	4,755.03	3,544.13	3,439.51	104.61	33.878		
11,100.00	7,806.97	7,782.13	7,679.97	83.22	33.51	-89.28	-5,082.61	4,755.03	3,519.64	3,412.42	107.22	32.827		
11,200.00	7,806.96	7,781.98	7,679.82	84.81	33.51	-89.28	-5,082.61	4,755.03	3,497.85	3,388.02	109.82	31.850		
11,300.00	7,806.96	7,781.82	7,679.67	86.41	33.51	-89.28	-5,082.61	4,755.02	3,478.79	3,366.38	112.41	30.946		
11,400.00	7,806.96	7,781.67	7,679.51	88.01	33.51	-89.27	-5,082.61	4,755.02	3,462.52	3,347.53	114.98	30.113		
11,500.00	7,806.96	7,781.52	7,679.36	89.63	33.51	-89.27	-5,082.61	4,755.02	3,449.07	3,331.54	117.52	29.348		
11,600.00	7,806.96	7,781.36	7,679.21	91.24	33.51	-89.27	-5,082.61	4,755.02	3,438.47	3,318.45	120.03	28.648		
11,700.00	7,806.96	7,781.21	7,679.05	92.87	33.51	-89.27	-5,082.61	4,755.02	3,430.76	3,308.28	122.48	28.011		
11,800.00	7,806.96	7,781.06	7,678.90	94.49	33.51	-89.26	-5,082.61	4,755.01	3,425.96	3,301.08	124.87	27.435		
11,900.00	7,806.95	7,780.91	7,678.75	96.13	33.51	-89.26	-5,082.61	4,755.01	3,424.06	3,296.86	127.20	26.918		
11,914.81	7,806.95	7,780.88	7,678.73	96.37	33.51	-89.26	-5,082.61	4,755.01	3,424.03	3,296.49	127.54	26.846 CC		
12,000.00	7,806.95	7,780.76	7,678.60	97.77	33.51	-89.26	-5,082.61	4,755.01	3,425.09	3,295.63	129.46	26.456 ES		
12,100.00	7,806.95	7,780.60	7,678.45	99.41	33.51	-89.26	-5,082.61	4,755.01	3,429.04	3,297.39	131.64	26.048		
12,200.00	7,806.95	7,780.45	7,678.30	101.06	33.51	-89.25	-5,082.61	4,755.01	3,435.89	3,302.15	133.74	25.691		
12,300.00	7,806.95	7,780.30	7,678.14	102.71	33.51	-89.25	-5,082.61	4,755.00	3,445.63	3,309.89	135.74	25.384		
12,400.00	7,806.95	7,780.15	7,677.99	104.37	33.51	-89.25	-5,082.61	4,755.00	3,458.24	3,320.58	137.65	25.123		
12,500.00	7,806.95	7,780.00	7,677.84	106.02	33.51	-89.25	-5,082.61	4,755.00	3,473.68	3,334.21	139.47	24.907		
12,600.00	7,806.95	7,779.85	7,677.69	107.69	33.51	-89.24	-5,082.61	4,755.00	3,491.92	3,350.73	141.18	24.734		
12,700.00	7,806.94	7,779.70	7,677.54	109.35	33.51	-89.24	-5,082.61	4,755.00	3,512.91	3,370.11	142.79	24.601		
12,800.00	7,806.94	7,779.55	7,677.40	111.02	33.51	-89.24	-5,082.61	4,754.99	3,536.60	3,392.30	144.31	24.508		
12,900.00	7,806.94	7,779.40	7,677.25	112.70	33.51	-89.24	-5,082.61	4,754.99	3,562.95	3,417.23	145.71	24.452		
13,000.00	7,806.94	7,779.26	7,677.10	114.37	33.51	-89.23	-5,082.61	4,754.99	3,591.88	3,444.86	147.02	24.431 SF		
13,100.00	7,806.94	7,779.11	7,676.95	116.05	33.50	-89.23	-5,082.61	4,754.99	3,623.35	3,475.12	148.23	24.444		
13,200.00	7,806.94	7,778.96	7,676.80	117.74	33.50	-89.23	-5,082.61	4,754.99	3,657.28	3,507.94	149.34	24.490		
13,300.00	7,806.94	7,778.81	7,676.65	119.42	33.50	-89.23	-5,082.62	4,754.99	3,693.61	3,543.26	150.35	24.566		
13,400.00	7,806.94	7,778.66	7,676.51	121.11	33.50	-89.22	-5,082.62	4,754.98	3,732.26	3,580.99	151.28	24.672		
13,500.00	7,806.93	7,778.52	7,676.36	122.80	33.50	-89.22	-5,082.62	4,754.98	3,773.17	3,621.06	152.11	24.806		
13,600.00	7,806.93	7,778.37	7,676.21	124.49	33.50	-89.22	-5,082.62	4,754.98	3,816.26	3,663.41	152.86	24.966		
13,700.00	7,806.93	7,778.22	7,676.07	126.18	33.50	-89.22	-5,082.62	4,754.98	3,861.46	3,707.94	153.52	25.152		
13,800.00	7,806.93	7,778.08	7,675.92	127.88	33.50	-89.21	-5,082.62	4,754.98	3,908.70	3,754.59	154.11	25.363		
13,900.00	7,806.93	7,777.93	7,675.77	129.58	33.50	-89.21	-5,082.62	4,754.97	3,957.90	3,803.27	154.63	25.596		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - BICKLER 4-6-34 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,777.79	7,675.63	131.28	33.50	-89.21	-5,082.62	4,754.97	4,008.99	3,853.92	155.08	25.852		
14,100.00	7,806.93	7,777.64	7,675.48	132.98	33.50	-89.21	-5,082.62	4,754.97	4,061.90	3,906.44	155.46	26.129		
14,200.00	7,806.93	7,777.50	7,675.34	134.68	33.50	-89.20	-5,082.62	4,754.97	4,116.56	3,960.78	155.78	26.426		
14,300.00	7,806.92	7,777.35	7,675.19	136.39	33.50	-89.20	-5,082.62	4,754.97	4,172.90	4,016.86	156.04	26.742		
14,400.00	7,806.92	7,777.21	7,675.05	138.10	33.50	-89.20	-5,082.62	4,754.96	4,230.86	4,074.60	156.26	27.076		
14,500.00	7,806.92	7,777.06	7,674.90	139.81	33.50	-89.20	-5,082.62	4,754.96	4,290.36	4,133.94	156.42	27.428		
14,600.00	7,806.92	7,776.92	7,674.76	141.52	33.50	-89.19	-5,082.62	4,754.96	4,351.35	4,194.81	156.54	27.797		
14,700.00	7,806.92	7,776.77	7,674.62	143.23	33.50	-89.19	-5,082.62	4,754.96	4,413.76	4,257.14	156.62	28.182		
14,800.00	7,806.92	7,776.63	7,674.47	144.94	33.50	-89.19	-5,082.62	4,754.96	4,477.53	4,320.88	156.65	28.582		
14,900.00	7,806.92	7,776.49	7,674.33	146.66	33.50	-89.19	-5,082.62	4,754.96	4,542.62	4,385.96	156.66	28.997		
15,000.00	7,806.92	7,776.35	7,674.19	148.37	33.50	-89.18	-5,082.62	4,754.95	4,608.95	4,452.32	156.63	29.426		
15,100.00	7,806.91	7,776.20	7,674.04	150.09	33.50	-89.18	-5,082.62	4,754.95	4,676.48	4,519.90	156.57	29.868		
15,200.00	7,806.91	7,776.06	7,673.90	151.81	33.50	-89.18	-5,082.62	4,754.95	4,745.15	4,588.66	156.49	30.323		
15,300.00	7,806.91	7,775.92	7,673.76	153.53	33.50	-89.18	-5,082.62	4,754.95	4,814.92	4,658.55	156.38	30.790		
15,400.00	7,806.91	7,775.78	7,673.62	155.25	33.50	-89.17	-5,082.62	4,754.95	4,885.75	4,729.50	156.25	31.269		
15,500.00	7,806.91	7,775.64	7,673.48	156.97	33.50	-89.17	-5,082.62	4,754.94	4,957.58	4,801.48	156.10	31.759		
15,600.00	7,806.91	7,775.49	7,673.34	158.70	33.49	-89.17	-5,082.62	4,754.94	5,030.37	4,874.44	155.93	32.260		
15,700.00	7,806.91	7,775.35	7,673.20	160.42	33.49	-89.17	-5,082.62	4,754.94	5,104.08	4,948.33	155.75	32.771		
15,800.00	7,806.91	7,775.21	7,673.06	162.15	33.49	-89.16	-5,082.62	4,754.94	5,178.68	5,023.12	155.55	33.292		
15,900.00	7,806.90	7,775.07	7,672.91	163.88	33.49	-89.16	-5,082.62	4,754.94	5,254.11	5,098.77	155.34	33.822		
16,000.00	7,806.90	7,774.93	7,672.77	165.60	33.49	-89.16	-5,082.62	4,754.94	5,330.36	5,175.24	155.12	34.362		
16,100.00	7,806.90	7,774.79	7,672.63	167.33	33.49	-89.16	-5,082.62	4,754.93	5,407.38	5,252.49	154.90	34.910		
16,200.00	7,806.90	7,774.65	7,672.50	169.06	33.49	-89.16	-5,082.62	4,754.93	5,485.15	5,330.49	154.66	35.466		
16,300.00	7,806.90	7,774.51	7,672.36	170.79	33.49	-89.15	-5,082.62	4,754.93	5,563.62	5,409.21	154.41	36.031		
16,400.00	7,806.90	7,774.37	7,672.22	172.52	33.49	-89.15	-5,082.62	4,754.93	5,642.77	5,488.61	154.16	36.603		
16,500.00	7,806.90	7,774.24	7,672.08	174.26	33.49	-89.15	-5,082.62	4,754.93	5,722.58	5,568.68	153.91	37.182		
16,600.00	7,806.89	7,774.10	7,671.94	175.99	33.49	-89.15	-5,082.62	4,754.93	5,803.01	5,649.37	153.65	37.769		
16,700.00	7,806.89	7,773.96	7,671.80	177.72	33.49	-89.14	-5,082.62	4,754.92	5,884.05	5,730.67	153.38	38.362		
16,800.00	7,806.89	7,773.82	7,671.66	179.46	33.49	-89.14	-5,082.62	4,754.92	5,965.66	5,812.54	153.12	38.962		
16,900.00	7,806.89	7,773.68	7,671.53	181.19	33.49	-89.14	-5,082.62	4,754.92	6,047.82	5,894.97	152.85	39.568		
17,000.00	7,806.89	7,773.55	7,671.39	182.93	33.49	-89.14	-5,082.63	4,754.92	6,130.51	5,977.93	152.58	40.180		
17,100.00	7,806.89	7,773.41	7,671.25	184.67	33.49	-89.13	-5,082.63	4,754.92	6,213.71	6,061.40	152.31	40.798		
17,200.00	7,806.89	7,773.27	7,671.12	186.40	33.49	-89.13	-5,082.63	4,754.92	6,297.40	6,145.36	152.03	41.421		
17,300.00	7,806.89	7,773.14	7,670.98	188.14	33.49	-89.13	-5,082.63	4,754.91	6,381.55	6,229.79	151.76	42.050		
17,400.00	7,806.88	7,773.00	7,670.84	189.88	33.49	-89.13	-5,082.63	4,754.91	6,466.16	6,314.67	151.49	42.684		
17,500.00	7,806.88	7,772.86	7,670.71	191.62	33.49	-89.13	-5,082.63	4,754.91	6,551.21	6,399.99	151.22	43.322		
17,600.00	7,806.88	7,772.73	7,670.57	193.36	33.49	-89.12	-5,082.63	4,754.91	6,636.67	6,485.72	150.95	43.966		
17,700.00	7,806.88	7,772.59	7,670.44	195.10	33.49	-89.12	-5,082.63	4,754.91	6,722.53	6,571.84	150.68	44.614		
17,800.00	7,806.88	7,772.46	7,670.30	196.84	33.49	-89.12	-5,082.63	4,754.91	6,808.77	6,658.36	150.42	45.266		
17,900.00	7,806.88	7,772.32	7,670.17	198.58	33.49	-89.12	-5,082.63	4,754.90	6,895.39	6,745.24	150.15	45.923		
18,000.00	7,806.88	7,772.19	7,670.03	200.33	33.49	-89.11	-5,082.63	4,754.90	6,982.37	6,832.48	149.89	46.584		
18,027.46	7,807.00	7,772.24	7,670.08	200.80	33.49	-89.11	-5,082.63	4,754.90	7,006.45	6,856.63	149.82	46.765		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	3.00	3.00	0.00	0.04	136.89	-3,226.61	3,020.84	4,420.01					
100.00	100.00	103.00	103.00	0.13	1.25	136.89	-3,226.61	3,020.84	4,420.01	4,418.62	1.39	3,184.186		
200.00	200.00	203.00	203.00	0.49	3.54	136.89	-3,226.61	3,020.84	4,420.01	4,415.98	4.03	1,096.025		
300.00	300.00	303.00	303.00	0.85	5.62	136.89	-3,226.61	3,020.84	4,420.01	4,413.54	6.47	683.292		
400.00	400.00	403.00	403.00	1.21	7.66	136.89	-3,226.61	3,020.84	4,420.01	4,411.14	8.87	498.365		
500.00	500.00	503.00	503.00	1.57	9.69	136.89	-3,226.61	3,020.84	4,420.01	4,408.76	11.26	392.667		
600.00	600.00	603.00	603.00	1.93	11.71	136.89	-3,226.61	3,020.84	4,420.01	4,406.38	13.64	324.106		
700.00	700.00	703.00	703.00	2.29	13.73	136.89	-3,226.61	3,020.84	4,420.01	4,404.00	16.02	275.988		
800.00	800.00	803.00	803.00	2.64	15.75	136.89	-3,226.61	3,020.84	4,420.01	4,401.62	18.39	240.338		
900.00	900.00	903.00	903.00	3.00	17.76	136.89	-3,226.61	3,020.84	4,420.01	4,399.25	20.76	212.859		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	136.89	-3,226.61	3,020.84	4,420.01	4,396.87	23.14	191.027		
1,100.00	1,099.98	1,102.98	1,102.98	3.71	21.79	9.89	-3,226.61	3,020.84	4,418.29	4,392.80	25.50	173.290		
1,200.00	1,199.84	1,202.84	1,202.84	4.04	23.80	9.92	-3,226.61	3,020.84	4,413.14	4,385.29	27.84	158.502		
1,300.00	1,299.45	1,302.45	1,302.45	4.39	25.81	9.97	-3,226.61	3,020.84	4,404.55	4,374.36	30.19	145.902		
1,400.00	1,398.70	1,401.70	1,401.70	4.74	27.80	10.04	-3,226.61	3,020.84	4,392.55	4,360.02	32.53	135.030		
1,500.00	1,497.47	1,500.47	1,500.47	5.12	29.79	10.13	-3,226.61	3,020.84	4,377.14	4,342.28	34.86	125.545		
1,600.00	1,595.62	1,601.38	1,598.62	5.51	31.82	10.24	-3,226.61	3,020.84	4,358.35	4,321.11	37.25	117.015		
1,700.00	1,693.06	1,703.94	1,696.06	5.94	33.89	10.38	-3,226.61	3,020.84	4,336.20	4,296.54	39.66	109.324		
1,800.00	1,789.64	1,807.36	1,792.64	6.39	35.97	10.53	-3,226.61	3,020.84	4,310.72	4,268.62	42.10	102.388		
1,863.26	1,850.25	1,853.25	1,853.25	6.70	36.89	10.65	-3,226.61	3,020.84	4,292.90	4,249.65	43.25	99.247		
1,900.00	1,885.34	1,888.34	1,888.34	6.89	37.60	10.67	-3,226.61	3,020.84	4,282.17	4,238.07	44.09	97.116		
2,000.00	1,980.83	1,983.83	1,983.83	7.41	39.52	10.75	-3,226.61	3,020.84	4,252.96	4,206.59	46.37	91.712		
2,100.00	2,076.33	2,079.33	2,079.33	7.95	41.44	10.82	-3,226.61	3,020.84	4,223.76	4,175.10	48.66	86.804		
2,200.00	2,171.82	2,174.82	2,174.82	8.50	43.36	10.90	-3,226.61	3,020.84	4,194.57	4,143.62	50.95	82.330		
2,300.00	2,267.32	2,270.32	2,270.32	9.07	45.28	10.98	-3,226.61	3,020.84	4,165.38	4,112.14	53.24	78.235		
2,400.00	2,362.81	2,365.81	2,365.81	9.64	47.20	11.05	-3,226.61	3,020.84	4,136.20	4,080.66	55.54	74.474		
2,500.00	2,458.30	2,461.30	2,461.30	10.22	49.12	11.13	-3,226.61	3,020.84	4,107.03	4,049.19	57.84	71.008		
2,600.00	2,553.80	2,556.80	2,556.80	10.81	51.04	11.21	-3,226.61	3,020.84	4,077.86	4,017.72	60.14	67.804		
2,700.00	2,649.29	2,652.29	2,652.29	11.41	52.96	11.29	-3,226.61	3,020.84	4,048.70	3,986.26	62.45	64.834		
2,800.00	2,744.79	2,747.79	2,747.79	12.01	54.89	11.38	-3,226.61	3,020.84	4,019.55	3,954.80	64.75	62.074		
2,900.00	2,840.28	2,843.28	2,843.28	12.61	56.81	11.46	-3,226.61	3,020.84	3,990.41	3,923.35	67.06	59.502		
3,000.00	2,935.77	2,938.77	2,938.77	13.22	58.73	11.55	-3,226.61	3,020.84	3,961.28	3,891.90	69.38	57.099		
3,100.00	3,031.27	3,034.27	3,034.27	13.83	60.65	11.63	-3,226.61	3,020.84	3,932.15	3,860.46	71.69	54.851		
3,200.00	3,126.76	3,129.76	3,129.76	14.44	62.57	11.72	-3,226.61	3,020.84	3,903.03	3,829.03	74.00	52.742		
3,300.00	3,222.26	3,225.26	3,225.26	15.06	64.49	11.81	-3,226.61	3,020.84	3,873.92	3,797.61	76.32	50.760		
3,400.00	3,317.75	3,320.75	3,320.75	15.68	66.41	11.90	-3,226.61	3,020.84	3,844.82	3,766.19	78.64	48.894		
3,500.00	3,413.25	3,416.25	3,416.25	16.30	68.33	11.99	-3,226.61	3,020.84	3,815.73	3,734.78	80.96	47.134		
3,600.00	3,508.74	3,511.74	3,511.74	16.92	70.25	12.08	-3,226.61	3,020.84	3,786.65	3,703.37	83.28	45.472		
3,700.00	3,604.23	3,607.23	3,607.23	17.54	72.17	12.18	-3,226.61	3,020.84	3,757.58	3,671.98	85.60	43.899		
3,800.00	3,699.73	3,702.73	3,702.73	18.17	74.09	12.27	-3,226.61	3,020.84	3,728.51	3,640.59	87.92	42.409		
3,900.00	3,795.22	3,801.78	3,798.22	18.79	76.08	12.37	-3,226.61	3,020.84	3,699.46	3,609.14	90.31	40.962		
4,000.00	3,890.72	3,906.28	3,893.72	19.42	78.19	12.47	-3,226.61	3,020.84	3,670.41	3,577.59	92.82	39.544		
4,100.00	3,986.21	3,989.21	3,989.21	20.05	79.85	12.57	-3,226.61	3,020.84	3,641.38	3,546.49	94.89	38.374		
4,200.00	4,081.70	4,084.70	4,084.70	20.67	81.77	12.67	-3,226.61	3,020.84	3,612.36	3,515.14	97.22	37.157		
4,300.00	4,177.20	4,180.20	4,180.20	21.30	83.69	12.78	-3,226.61	3,020.84	3,583.34	3,483.80	99.55	35.997		
4,400.00	4,272.69	4,275.69	4,275.69	21.93	85.62	12.88	-3,226.61	3,020.84	3,554.34	3,452.47	101.87	34.890		
4,500.00	4,368.19	4,371.19	4,371.19	22.56	87.54	12.99	-3,226.61	3,020.84	3,525.35	3,421.15	104.20	33.831		
4,600.00	4,463.68	4,466.68	4,466.68	23.19	89.46	13.10	-3,226.61	3,020.84	3,496.37	3,389.84	106.53	32.819		
4,700.00	4,559.17	4,562.17	4,562.17	23.83	91.38	13.21	-3,226.61	3,020.84	3,467.41	3,358.54	108.87	31.850		
4,800.00	4,654.67	4,657.67	4,657.67	24.46	93.30	13.32	-3,226.61	3,020.84	3,438.45	3,327.26	111.20	30.922		
4,900.00	4,750.16	4,753.16	4,753.16	25.09	95.22	13.44	-3,226.61	3,020.84	3,409.51	3,295.98	113.53	30.032		
5,000.00	4,845.66	4,848.66	4,848.66	25.72	97.14	13.56	-3,226.61	3,020.84	3,380.58	3,264.72	115.87	29.177		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - EXIST VERT BICKLER 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,944.15	4,944.15	26.36	99.06	13.67	-3,226.61	3,020.84	3,351.67	3,233.46	118.20	28.356		
5,200.00	5,036.65	5,039.65	5,039.65	26.99	100.98	13.79	-3,226.61	3,020.84	3,322.76	3,202.23	120.54	27.566		
5,300.00	5,132.14	5,135.14	5,135.14	27.63	102.90	13.92	-3,226.61	3,020.84	3,293.87	3,171.00	122.87	26.807		
5,400.00	5,227.63	5,230.63	5,230.63	28.26	104.82	14.04	-3,226.61	3,020.84	3,265.00	3,139.79	125.21	26.076		
5,500.00	5,323.13	5,326.13	5,326.13	28.90	106.74	14.17	-3,226.61	3,020.84	3,236.14	3,108.59	127.55	25.371		
5,600.00	5,418.62	5,421.62	5,421.62	29.53	108.66	14.30	-3,226.61	3,020.84	3,207.29	3,077.40	129.89	24.692		
5,700.00	5,514.12	5,517.12	5,517.12	30.17	110.58	14.43	-3,226.61	3,020.84	3,178.46	3,046.23	132.23	24.037		
5,800.00	5,609.61	5,612.61	5,612.61	30.80	112.50	14.56	-3,226.61	3,020.84	3,149.65	3,015.07	134.58	23.404		
5,900.00	5,705.10	5,708.10	5,708.10	31.44	114.42	14.70	-3,226.61	3,020.84	3,120.85	2,983.93	136.92	22.793		
6,000.00	5,800.60	5,803.60	5,803.60	32.08	116.34	14.84	-3,226.61	3,020.84	3,092.07	2,952.81	139.26	22.203		
6,100.00	5,896.09	5,900.91	5,899.09	32.71	118.30	14.98	-3,226.61	3,020.84	3,063.31	2,921.66	141.65	21.626		
6,200.00	5,991.59	6,005.41	5,994.59	33.35	120.40	15.13	-3,226.61	3,020.84	3,034.56	2,890.39	144.17	21.048		
6,300.00	6,087.08	6,109.92	6,090.08	33.99	122.50	15.27	-3,226.61	3,020.84	3,005.83	2,859.13	146.70	20.489		
6,400.00	6,182.57	6,185.57	6,185.57	34.62	124.02	15.42	-3,226.61	3,020.84	2,977.12	2,828.47	148.66	20.027		
6,499.99	6,278.06	6,281.06	6,281.06	35.26	125.94	15.58	-3,226.61	3,020.84	2,948.44	2,797.43	151.01	19.525		
6,505.95	6,283.75	6,286.75	6,286.75	35.30	126.06	15.59	-3,226.61	3,020.84	2,946.73	2,795.58	151.15	19.496		
6,600.00	6,374.00	6,377.00	6,377.00	35.88	127.87	15.58	-3,226.61	3,020.84	2,921.19	2,767.83	153.36	19.048		
6,700.00	6,470.87	6,473.87	6,473.87	36.44	129.82	15.58	-3,226.61	3,020.84	2,897.21	2,741.48	155.72	18.605		
6,800.00	6,568.53	6,571.53	6,571.53	36.96	131.79	15.58	-3,226.61	3,020.84	2,876.52	2,718.43	158.09	18.195		
6,900.00	6,666.89	6,669.89	6,669.89	37.43	133.76	15.58	-3,226.61	3,020.84	2,859.13	2,698.68	160.46	17.819		
7,000.00	6,765.82	6,768.82	6,768.82	37.85	135.75	15.58	-3,226.61	3,020.84	2,845.08	2,682.26	162.82	17.474		
7,100.00	6,865.19	6,868.19	6,868.19	38.22	137.75	15.59	-3,226.61	3,020.84	2,834.36	2,669.19	165.18	17.160		
7,200.00	6,964.89	6,967.89	6,967.89	38.55	139.76	15.59	-3,226.61	3,020.84	2,827.00	2,659.48	167.52	16.875		
7,300.00	7,064.80	7,067.80	7,067.80	38.83	141.77	15.59	-3,226.61	3,020.84	2,822.99	2,653.13	169.86	16.620		
7,369.20	7,134.00	7,137.00	7,137.00	39.00	143.16	142.60	-3,226.61	3,020.84	2,822.19	2,650.73	171.46	16.460		
7,400.00	7,164.80	7,167.80	7,167.80	39.06	143.78	142.60	-3,226.61	3,020.84	2,822.19	2,650.02	172.17	16.392		
7,469.20	7,234.00	7,237.00	7,237.00	39.22	145.17	142.60	-3,226.61	3,020.84	2,822.19	2,648.42	173.77	16.241		
7,500.00	7,264.78	7,267.78	7,267.78	39.29	145.79	-37.11	-3,226.61	3,020.84	2,821.53	2,647.05	174.48	16.172		
7,550.00	7,314.53	7,317.53	7,317.53	39.44	146.79	-37.40	-3,226.61	3,020.84	2,817.65	2,642.03	175.62	16.044		
7,600.00	7,363.66	7,366.66	7,366.66	39.62	147.78	-37.97	-3,226.61	3,020.84	2,810.34	2,633.60	176.75	15.900		
7,650.00	7,411.81	7,414.81	7,414.81	39.82	148.74	-38.82	-3,226.61	3,020.84	2,799.67	2,621.82	177.84	15.742		
7,700.00	7,458.61	7,461.61	7,461.61	40.06	149.69	-39.96	-3,226.61	3,020.84	2,785.73	2,606.83	178.90	15.571		
7,750.00	7,503.69	7,506.69	7,506.69	40.32	150.59	-41.42	-3,226.61	3,020.84	2,768.67	2,588.75	179.92	15.388		
7,800.00	7,546.72	7,549.72	7,549.72	40.60	151.46	-43.23	-3,226.61	3,020.84	2,748.65	2,567.76	180.89	15.195		
7,850.00	7,587.38	7,609.62	7,590.38	40.92	152.66	-45.41	-3,226.61	3,020.84	2,725.87	2,543.68	182.18	14.962		
7,900.00	7,625.34	7,628.34	7,628.34	41.25	153.04	-47.98	-3,226.61	3,020.84	2,700.53	2,517.90	182.64	14.786		
7,950.00	7,660.33	7,663.33	7,663.33	41.61	153.74	-50.99	-3,226.61	3,020.84	2,672.90	2,489.49	183.41	14.573		
8,000.00	7,692.07	7,704.93	7,695.07	42.00	154.58	-54.45	-3,226.61	3,020.84	2,643.23	2,458.91	184.32	14.341		
8,050.00	7,720.33	7,723.33	7,723.33	42.40	154.95	-58.35	-3,226.61	3,020.84	2,611.80	2,427.05	184.75	14.137		
8,100.00	7,744.89	7,747.89	7,747.89	42.83	155.44	-62.70	-3,226.61	3,020.84	2,578.92	2,393.61	185.31	13.917		
8,150.00	7,765.56	7,768.56	7,768.56	43.27	155.86	-67.43	-3,226.61	3,020.84	2,544.88	2,359.10	185.79	13.698		
8,200.00	7,782.18	7,785.18	7,785.18	43.74	156.19	-72.46	-3,226.61	3,020.84	2,510.02	2,323.82	186.20	13.480		
8,250.00	7,794.63	7,802.37	7,797.63	44.22	156.54	-77.68	-3,226.61	3,020.84	2,474.63	2,288.00	186.63	13.260		
8,300.00	7,802.82	7,805.82	7,805.82	44.71	156.61	-82.93	-3,226.61	3,020.84	2,439.05	2,252.25	186.80	13.057		
8,350.00	7,806.68	7,809.68	7,809.68	45.21	156.68	-88.08	-3,226.61	3,020.84	2,403.58	2,216.58	187.00	12.853		
8,369.28	7,807.00	7,810.00	7,810.00	45.40	156.69	-90.00	-3,226.61	3,020.84	2,390.00	2,202.94	187.06	12.776		
8,400.00	7,807.00	7,810.00	7,810.00	45.72	156.69	-90.00	-3,226.61	3,020.84	2,368.52	2,181.36	187.16	12.655		
8,500.00	7,807.00	7,810.00	7,810.00	46.77	156.69	-90.00	-3,226.61	3,020.84	2,300.04	2,112.43	187.61	12.260		
8,600.00	7,807.00	7,810.00	7,810.00	47.86	156.69	-90.00	-3,226.61	3,020.84	2,233.94	2,045.68	188.27	11.866		
8,700.00	7,807.00	7,810.00	7,810.00	48.99	156.69	-90.00	-3,226.61	3,020.84	2,170.44	1,981.29	189.15	11.475		
8,800.00	7,806.99	7,809.99	7,809.99	50.16	156.69	-90.00	-3,226.61	3,020.84	2,109.77	1,919.49	190.28	11.087		
8,900.00	7,806.99	7,809.99	7,809.99	51.37	156.69	-90.00	-3,226.61	3,020.84	2,052.19	1,860.52	191.67	10.707		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,809.99	7,809.99	52.60	156.69	-90.00	-3,226.61	3,020.84	1,997.94	1,804.64	193.31	10.335		
9,100.00	7,806.99	7,809.99	7,809.99	53.87	156.69	-90.00	-3,226.61	3,020.84	1,947.33	1,752.13	195.20	9.976		
9,200.00	7,806.99	7,809.99	7,809.99	55.17	156.69	-90.00	-3,226.61	3,020.84	1,900.64	1,703.32	197.32	9.632		
9,300.00	7,806.99	7,809.99	7,809.99	56.49	156.69	-90.00	-3,226.61	3,020.84	1,858.15	1,658.50	199.66	9.307		
9,400.00	7,806.99	7,809.99	7,809.99	57.83	156.69	-90.00	-3,226.61	3,020.84	1,820.18	1,618.00	202.18	9.003		
9,500.00	7,806.99	7,809.99	7,809.99	59.20	156.69	-90.00	-3,226.61	3,020.84	1,787.00	1,582.14	204.86	8.723		
9,600.00	7,806.98	7,809.98	7,809.98	60.59	156.69	-90.00	-3,226.61	3,020.84	1,758.89	1,551.25	207.64	8.471		
9,700.00	7,806.98	7,809.98	7,809.98	62.00	156.69	-90.00	-3,226.61	3,020.84	1,736.09	1,525.60	210.50	8.248		
9,800.00	7,806.98	7,809.98	7,809.98	63.43	156.69	-90.00	-3,226.61	3,020.84	1,718.82	1,505.45	213.37	8.056		
9,900.00	7,806.98	7,809.98	7,809.98	64.87	156.69	-90.00	-3,226.61	3,020.84	1,707.23	1,491.02	216.21	7.896		
10,000.00	7,806.98	7,809.98	7,809.98	66.34	156.69	-90.00	-3,226.61	3,020.84	1,701.46	1,482.48	218.98	7.770		
10,048.41	7,806.98	7,809.98	7,809.98	67.05	156.69	-90.00	-3,226.61	3,020.84	1,700.77	1,480.49	220.28	7.721 CC		
10,100.00	7,806.98	7,809.98	7,809.98	67.81	156.69	-90.00	-3,226.61	3,020.84	1,701.55	1,479.92	221.63	7.677 ES		
10,200.00	7,806.98	7,809.98	7,809.98	69.30	156.69	-90.00	-3,226.61	3,020.84	1,707.51	1,483.39	224.13	7.619		
10,300.00	7,806.98	7,809.98	7,809.98	70.81	156.69	-90.00	-3,226.61	3,020.84	1,719.28	1,492.84	226.44	7.593 SF		
10,400.00	7,806.97	7,809.97	7,809.97	72.32	156.69	-90.00	-3,226.61	3,020.84	1,736.73	1,508.19	228.54	7.599		
10,500.00	7,806.97	7,809.97	7,809.97	73.85	156.69	-90.00	-3,226.61	3,020.84	1,759.71	1,529.28	230.42	7.637		
10,600.00	7,806.97	7,809.97	7,809.97	75.39	156.69	-90.00	-3,226.61	3,020.84	1,787.98	1,555.90	232.08	7.704		
10,700.00	7,806.97	7,809.97	7,809.97	76.94	156.69	-90.00	-3,226.61	3,020.84	1,821.32	1,587.81	233.51	7.800		
10,800.00	7,806.97	7,809.97	7,809.97	78.49	156.69	-90.00	-3,226.61	3,020.84	1,859.44	1,624.71	234.73	7.922		
10,900.00	7,806.97	7,809.97	7,809.97	80.06	156.69	-90.00	-3,226.61	3,020.84	1,902.06	1,666.32	235.74	8.069		
11,000.00	7,806.97	7,809.97	7,809.97	81.64	156.69	-90.00	-3,226.61	3,020.84	1,948.89	1,712.33	236.56	8.238		
11,100.00	7,806.97	7,809.97	7,809.97	83.22	156.69	-90.00	-3,226.61	3,020.84	1,999.62	1,762.41	237.21	8.430		
11,200.00	7,806.96	7,809.96	7,809.96	84.81	156.69	-90.00	-3,226.61	3,020.84	2,053.97	1,816.26	237.71	8.641		
11,300.00	7,806.96	7,809.96	7,809.96	86.41	156.69	-90.00	-3,226.61	3,020.84	2,111.66	1,873.59	238.08	8.870		
11,400.00	7,806.96	7,809.96	7,809.96	88.01	156.69	-90.00	-3,226.61	3,020.84	2,172.43	1,934.10	238.32	9.115		
11,500.00	7,806.96	7,809.96	7,809.96	89.63	156.69	-90.00	-3,226.61	3,020.84	2,236.01	1,997.54	238.47	9.377		
11,600.00	7,806.96	7,809.96	7,809.96	91.24	156.69	-90.00	-3,226.61	3,020.84	2,302.19	2,063.66	238.53	9.652		
11,700.00	7,806.96	7,809.96	7,809.96	92.87	156.69	-90.00	-3,226.61	3,020.84	2,370.74	2,132.22	238.52	9.939		
11,800.00	7,806.96	7,809.96	7,809.96	94.49	156.69	-90.00	-3,226.61	3,020.84	2,441.46	2,203.01	238.45	10.239		
11,900.00	7,806.95	7,809.95	7,809.95	96.13	156.69	-90.00	-3,226.61	3,020.84	2,514.16	2,275.84	238.33	10.549		
12,000.00	7,806.95	7,809.95	7,809.95	97.77	156.69	-90.00	-3,226.61	3,020.84	2,588.70	2,350.53	238.16	10.869		
12,100.00	7,806.95	7,809.95	7,809.95	99.41	156.69	-90.00	-3,226.61	3,020.84	2,664.89	2,426.93	237.97	11.199		
12,200.00	7,806.95	7,809.95	7,809.95	101.06	156.69	-90.00	-3,226.61	3,020.84	2,742.62	2,504.88	237.75	11.536		
12,300.00	7,806.95	7,809.95	7,809.95	102.71	156.69	-90.00	-3,226.61	3,020.84	2,821.75	2,584.25	237.50	11.881		
12,400.00	7,806.95	7,809.95	7,809.95	104.37	156.69	-90.00	-3,226.61	3,020.84	2,902.17	2,664.93	237.25	12.233		
12,500.00	7,806.95	7,809.95	7,809.95	106.02	156.69	-90.00	-3,226.61	3,020.84	2,983.78	2,746.80	236.98	12.591		
12,600.00	7,806.95	7,809.95	7,809.95	107.69	156.69	-90.00	-3,226.61	3,020.84	3,066.47	2,829.77	236.70	12.955		
12,700.00	7,806.94	7,809.94	7,809.94	109.35	156.69	-90.00	-3,226.61	3,020.84	3,150.17	2,913.75	236.42	13.324		
12,800.00	7,806.94	7,809.94	7,809.94	111.02	156.69	-90.00	-3,226.61	3,020.84	3,234.79	2,998.66	236.14	13.699		
12,900.00	7,806.94	7,809.94	7,809.94	112.70	156.69	-90.00	-3,226.61	3,020.84	3,320.27	3,084.42	235.85	14.078		
13,000.00	7,806.94	7,809.94	7,809.94	114.37	156.69	-90.00	-3,226.61	3,020.84	3,406.54	3,170.98	235.56	14.461		
13,100.00	7,806.94	7,809.94	7,809.94	116.05	156.69	-90.00	-3,226.61	3,020.84	3,493.54	3,258.26	235.28	14.848		
13,200.00	7,806.94	7,809.94	7,809.94	117.74	156.69	-90.00	-3,226.61	3,020.84	3,581.22	3,346.22	235.00	15.239		
13,300.00	7,806.94	7,809.94	7,809.94	119.42	156.69	-90.00	-3,226.61	3,020.84	3,669.54	3,434.81	234.73	15.633		
13,400.00	7,806.94	7,809.94	7,809.94	121.11	156.69	-90.00	-3,226.61	3,020.84	3,758.43	3,523.98	234.45	16.031		
13,500.00	7,806.93	7,809.93	7,809.93	122.80	156.69	-90.00	-3,226.61	3,020.84	3,847.87	3,613.68	234.19	16.431		
13,600.00	7,806.93	7,809.93	7,809.93	124.49	156.69	-90.00	-3,226.61	3,020.84	3,937.82	3,703.89	233.93	16.833		
13,700.00	7,806.93	7,809.93	7,809.93	126.18	156.69	-90.00	-3,226.61	3,020.84	4,028.25	3,794.57	233.67	17.239		
13,800.00	7,806.93	7,809.93	7,809.93	127.88	156.69	-90.00	-3,226.61	3,020.84	4,119.11	3,885.69	233.43	17.646		
13,900.00	7,806.93	7,809.93	7,809.93	129.58	156.69	-90.00	-3,226.61	3,020.84	4,210.39	3,977.21	233.18	18.056		
14,000.00	7,806.93	7,809.93	7,809.93	131.28	156.69	-90.00	-3,226.61	3,020.84	4,302.06	4,069.11	232.95	18.468		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	7,809.93	7,809.93	132.98	156.69	-90.00	-3,226.61	3,020.84	4,394.09	4,161.37	232.72	18.881		
14,200.00	7,806.93	7,809.93	7,809.93	134.68	156.69	-90.00	-3,226.61	3,020.84	4,486.46	4,253.97	232.50	19.297		
14,300.00	7,806.92	7,809.92	7,809.92	136.39	156.69	-90.00	-3,226.61	3,020.84	4,579.16	4,346.88	232.28	19.714		
14,400.00	7,806.92	7,809.92	7,809.92	138.10	156.69	-90.00	-3,226.61	3,020.84	4,672.15	4,440.08	232.07	20.132		
14,500.00	7,806.92	7,809.92	7,809.92	139.81	156.69	-90.00	-3,226.61	3,020.84	4,765.43	4,533.56	231.87	20.552		
14,600.00	7,806.92	7,809.92	7,809.92	141.52	156.69	-90.00	-3,226.61	3,020.84	4,858.97	4,627.30	231.67	20.974		
14,700.00	7,806.92	7,809.92	7,809.92	143.23	156.69	-90.00	-3,226.61	3,020.84	4,952.77	4,721.29	231.48	21.396		
14,800.00	7,806.92	7,809.92	7,809.92	144.94	156.69	-90.00	-3,226.61	3,020.84	5,046.81	4,815.51	231.29	21.820		
14,900.00	7,806.92	7,809.92	7,809.92	146.66	156.69	-90.00	-3,226.61	3,020.84	5,141.07	4,909.95	231.11	22.245		
15,000.00	7,806.92	7,809.92	7,809.92	148.37	156.69	-90.00	-3,226.61	3,020.84	5,235.54	5,004.60	230.94	22.671		
15,100.00	7,806.91	7,809.91	7,809.91	150.09	156.69	-90.00	-3,226.61	3,020.84	5,330.22	5,099.45	230.77	23.097		
15,200.00	7,806.91	7,809.91	7,809.91	151.81	156.69	-90.00	-3,226.61	3,020.84	5,425.08	5,194.48	230.61	23.525		
15,300.00	7,806.91	7,809.91	7,809.91	153.53	156.69	-90.00	-3,226.61	3,020.84	5,520.13	5,289.68	230.45	23.953		
15,400.00	7,806.91	7,809.91	7,809.91	155.25	156.69	-90.00	-3,226.61	3,020.84	5,615.35	5,385.05	230.30	24.383		
15,500.00	7,806.91	7,809.91	7,809.91	156.97	156.69	-90.00	-3,226.61	3,020.84	5,710.74	5,480.58	230.15	24.813		
15,600.00	7,806.91	7,809.91	7,809.91	158.70	156.69	-90.00	-3,226.61	3,020.84	5,806.27	5,576.26	230.01	25.243		
15,700.00	7,806.91	7,809.91	7,809.91	160.42	156.69	-90.00	-3,226.61	3,020.84	5,901.96	5,672.09	229.87	25.675		
15,800.00	7,806.91	7,809.91	7,809.91	162.15	156.69	-90.00	-3,226.61	3,020.84	5,997.79	5,768.05	229.74	26.107		
15,900.00	7,806.90	7,809.90	7,809.90	163.88	156.69	-90.00	-3,226.61	3,020.84	6,093.75	5,864.14	229.61	26.539		
16,000.00	7,806.90	7,809.90	7,809.90	165.60	156.69	-90.00	-3,226.61	3,020.84	6,189.84	5,960.35	229.49	26.972		
16,100.00	7,806.90	7,809.90	7,809.90	167.33	156.69	-90.00	-3,226.61	3,020.84	6,286.05	6,056.68	229.37	27.406		
16,200.00	7,806.90	7,809.90	7,809.90	169.06	156.69	-90.00	-3,226.61	3,020.84	6,382.38	6,153.12	229.26	27.840		
16,300.00	7,806.90	7,809.90	7,809.90	170.79	156.69	-90.00	-3,226.61	3,020.84	6,478.82	6,249.67	229.14	28.274		
16,400.00	7,806.90	7,809.90	7,809.90	172.52	156.69	-90.00	-3,226.61	3,020.84	6,575.36	6,346.32	229.04	28.709		
16,500.00	7,806.90	7,809.90	7,809.90	174.26	156.69	-90.00	-3,226.61	3,020.84	6,672.01	6,443.07	228.93	29.144		
16,600.00	7,806.89	7,809.89	7,809.89	175.99	156.69	-90.00	-3,226.61	3,020.84	6,768.75	6,539.92	228.83	29.579		
16,700.00	7,806.89	7,809.89	7,809.89	177.72	156.69	-90.00	-3,226.61	3,020.84	6,865.59	6,636.85	228.74	30.015		
16,800.00	7,806.89	7,809.89	7,809.89	179.46	156.69	-90.00	-3,226.61	3,020.84	6,962.52	6,733.87	228.65	30.451		
16,900.00	7,806.89	7,809.89	7,809.89	181.19	156.69	-90.00	-3,226.61	3,020.84	7,059.53	6,830.97	228.56	30.887		
17,000.00	7,806.89	7,809.89	7,809.89	182.93	156.69	-90.00	-3,226.61	3,020.84	7,156.62	6,928.15	228.47	31.324		
17,100.00	7,806.89	7,809.89	7,809.89	184.67	156.69	-90.00	-3,226.61	3,020.84	7,253.80	7,025.41	228.39	31.761		
17,200.00	7,806.89	7,809.89	7,809.89	186.40	156.69	-90.00	-3,226.61	3,020.84	7,351.05	7,122.74	228.31	32.198		
17,300.00	7,806.89	7,809.89	7,809.89	188.14	156.69	-90.00	-3,226.61	3,020.84	7,448.37	7,220.14	228.23	32.635		
17,400.00	7,806.88	7,809.88	7,809.88	189.88	156.69	-90.00	-3,226.61	3,020.84	7,545.76	7,317.60	228.16	33.072		
17,500.00	7,806.88	7,809.88	7,809.88	191.62	156.69	-90.00	-3,226.61	3,020.84	7,643.22	7,415.13	228.09	33.509		
17,600.00	7,806.88	7,809.88	7,809.88	193.36	156.69	-90.00	-3,226.61	3,020.84	7,740.75	7,512.72	228.02	33.947		
17,700.00	7,806.88	7,809.88	7,809.88	195.10	156.69	-90.00	-3,226.61	3,020.84	7,838.34	7,610.38	227.96	34.385		
17,800.00	7,806.88	7,809.88	7,809.88	196.84	156.69	-90.00	-3,226.61	3,020.84	7,935.98	7,708.09	227.90	34.823		
17,900.00	7,806.88	7,809.88	7,809.88	198.58	156.69	-90.00	-3,226.61	3,020.84	8,033.69	7,805.85	227.84	35.260		
18,000.00	7,806.88	7,809.88	7,809.88	200.33	156.69	-90.00	-3,226.61	3,020.84	8,131.45	7,903.67	227.78	35.698		
18,027.46	7,807.00	7,810.00	7,810.00	200.80	156.69	-90.00	-3,226.61	3,020.84	8,158.36	7,930.59	227.77	35.818		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 6-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,500.00	5,323.13	5,972.17	5,685.91	28.90	37.26	24.37	-9,371.52	5,939.10	9,983.29	9,926.64	56.65	176.219		
5,600.00	5,418.62	6,000.62	5,714.17	29.53	37.36	24.41	-9,372.06	5,935.79	9,952.02	9,894.78	57.24	173.872		
5,700.00	5,514.12	6,032.00	5,745.36	30.17	37.47	24.46	-9,372.72	5,932.43	9,921.40	9,863.56	57.83	171.554		
5,800.00	5,609.61	6,032.00	5,745.36	30.80	37.47	24.46	-9,372.72	5,932.43	9,891.53	9,833.21	58.32	169.611		
5,900.00	5,705.10	6,075.32	5,788.48	31.44	37.61	24.51	-9,373.79	5,928.45	9,862.19	9,803.26	58.94	167.338		
6,000.00	5,800.60	6,126.00	5,839.01	32.08	37.76	24.57	-9,375.26	5,924.89	9,833.81	9,774.24	59.57	165.068		
6,100.00	5,896.09	6,126.00	5,839.01	32.71	37.76	24.57	-9,375.26	5,924.89	9,805.84	9,745.78	60.06	163.272		
6,200.00	5,991.59	6,205.88	5,918.74	33.35	37.97	24.66	-9,377.55	5,920.59	9,778.50	9,717.74	60.76	160.939		
6,300.00	6,087.08	6,332.94	6,045.65	33.99	38.30	24.80	-9,380.33	5,914.94	9,751.09	9,689.52	61.57	158.367		
6,400.00	6,182.57	6,482.88	6,195.47	34.62	38.68	24.95	-9,382.03	5,909.18	9,723.02	9,660.59	62.43	155.748		
6,499.99	6,278.06	6,565.01	6,277.54	35.26	38.89	25.03	-9,382.62	5,906.44	9,694.96	9,631.84	63.11	153.612		
6,505.95	6,283.75	6,569.68	6,282.21	35.30	38.90	25.03	-9,382.65	5,906.30	9,693.29	9,630.14	63.15	153.487		
6,600.00	6,374.00	6,667.19	6,379.68	35.88	39.14	24.90	-9,383.17	5,903.56	9,668.34	9,604.51	63.83	151.467		
6,700.00	6,470.87	6,852.97	6,565.42	36.44	39.57	24.82	-9,381.78	5,900.21	9,644.09	9,579.41	64.69	149.090		
6,800.00	6,568.53	6,924.26	6,636.70	36.96	39.72	24.68	-9,380.65	5,899.58	9,622.77	9,557.49	65.27	147.424		
6,900.00	6,666.89	7,024.48	6,736.91	37.43	39.94	24.57	-9,378.99	5,899.51	9,604.88	9,538.99	65.88	145.783		
7,000.00	6,765.82	7,155.56	6,867.96	37.85	40.21	24.48	-9,376.10	5,899.63	9,589.69	9,523.17	66.52	144.154		
7,100.00	6,865.19	7,100.00	7,009.12	38.22	40.10	24.40	-9,372.23	5,900.61	9,577.56	9,510.81	66.75	143.481		
7,200.00	6,964.89	7,493.00	7,205.19	38.55	40.91	24.33	-9,364.67	5,901.31	9,567.12	9,499.27	67.85	141.011		
7,300.00	7,064.80	7,536.00	7,248.16	38.83	41.00	24.28	-9,363.26	5,900.96	9,560.14	9,491.85	68.29	140.003		
7,369.20	7,134.00	7,581.00	7,293.15	39.00	41.11	151.26	-9,362.14	5,900.33	9,557.44	9,488.83	68.61	139.299		
7,400.00	7,164.80	7,595.69	7,307.83	39.06	41.15	151.26	-9,361.87	5,900.07	9,556.67	9,487.93	68.74	139.025		
7,469.20	7,234.00	7,630.00	7,342.13	39.22	41.23	151.26	-9,361.41	5,899.32	9,555.13	9,486.09	69.04	138.408		
7,500.00	7,264.78	7,630.00	7,342.13	39.29	41.23	-28.45	-9,361.41	5,899.32	9,553.82	9,484.68	69.14	138.191		
7,550.00	7,314.53	7,667.22	7,379.34	39.44	41.33	-28.71	-9,361.11	5,898.47	9,548.66	9,479.28	69.38	137.637		
7,600.00	7,363.66	7,690.74	7,402.85	39.62	41.39	-29.15	-9,360.98	5,897.98	9,539.87	9,470.29	69.58	137.109		
7,650.00	7,411.81	7,724.00	7,436.11	39.82	41.47	-29.80	-9,360.89	5,897.36	9,527.50	9,457.70	69.79	136.508		
7,700.00	7,458.61	7,744.66	7,456.76	40.06	41.52	-30.67	-9,360.87	5,897.00	9,511.59	9,441.62	69.97	135.938		
7,750.00	7,503.69	7,781.17	7,493.27	40.32	41.62	-31.81	-9,360.86	5,896.36	9,492.25	9,422.08	70.17	135.278		
7,800.00	7,546.72	7,816.07	7,528.16	40.60	41.70	-33.24	-9,360.89	5,895.76	9,469.59	9,399.24	70.35	134.609		
7,850.00	7,587.38	7,853.86	7,565.95	40.92	41.80	-35.01	-9,360.93	5,895.12	9,443.79	9,373.27	70.52	133.917		
7,900.00	7,625.34	7,889.41	7,601.50	41.25	41.89	-37.18	-9,360.95	5,894.57	9,415.03	9,344.36	70.67	133.230		
7,950.00	7,660.33	7,912.00	7,624.08	41.61	41.94	-39.78	-9,360.96	5,894.25	9,383.53	9,312.77	70.77	132.598		
8,000.00	7,692.07	7,938.49	7,650.56	42.00	42.01	-42.95	-9,360.97	5,893.91	9,349.57	9,278.72	70.85	131.954		
8,050.00	7,720.33	7,956.09	7,668.17	42.40	42.05	-46.73	-9,360.99	5,893.71	9,313.42	9,242.52	70.90	131.354		
8,100.00	7,744.89	7,971.42	7,683.49	42.83	42.09	-51.26	-9,361.02	5,893.56	9,275.34	9,204.41	70.93	130.774		
8,150.00	7,765.56	7,984.35	7,696.43	43.27	42.12	-56.64	-9,361.05	5,893.45	9,235.62	9,164.70	70.93	130.215		
8,200.00	7,782.18	8,006.00	7,718.07	43.74	42.17	-63.06	-9,361.10	5,893.30	9,194.57	9,123.65	70.92	129.639		
8,250.00	7,794.63	8,006.00	7,718.07	44.22	42.17	-70.22	-9,361.10	5,893.30	9,152.47	9,081.61	70.86	129.164		
8,300.00	7,802.82	8,008.77	7,720.85	44.71	42.18	-78.21	-9,361.11	5,893.28	9,109.67	9,038.89	70.78	128.697		
8,350.00	7,806.68	8,012.54	7,724.62	45.21	42.19	-86.74	-9,361.12	5,893.25	9,066.49	8,995.79	70.70	128.246		
8,369.28	7,807.00	8,012.90	7,724.98	45.40	42.19	-90.08	-9,361.12	5,893.25	9,049.80	8,979.15	70.66	128.081		
8,400.00	7,807.00	8,012.99	7,725.06	45.72	42.19	-90.08	-9,361.12	5,893.25	9,023.23	8,952.64	70.59	127.821		
8,500.00	7,807.00	8,013.26	7,725.33	46.77	42.19	-90.08	-9,361.12	5,893.25	8,936.93	8,866.52	70.41	126.933		
8,600.00	7,807.00	8,013.53	7,725.61	47.86	42.19	-90.08	-9,361.13	5,893.25	8,850.91	8,780.66	70.26	125.980		
8,700.00	7,807.00	8,013.81	7,725.88	48.99	42.19	-90.09	-9,361.13	5,893.25	8,765.20	8,695.05	70.14	124.959		
8,800.00	7,806.99	8,014.08	7,726.16	50.16	42.19	-90.09	-9,361.13	5,893.24	8,679.78	8,609.71	70.07	123.867		
8,900.00	7,806.99	8,014.36	7,726.43	51.37	42.19	-90.10	-9,361.13	5,893.24	8,594.69	8,524.64	70.05	122.701		
9,000.00	7,806.99	8,014.63	7,726.71	52.60	42.19	-90.10	-9,361.13	5,893.24	8,509.91	8,439.85	70.06	121.459		
9,100.00	7,806.99	8,014.91	7,726.98	53.87	42.19	-90.10	-9,361.13	5,893.24	8,425.47	8,355.34	70.13	120.139		
9,200.00	7,806.99	8,015.18	7,727.26	55.17	42.19	-90.11	-9,361.13	5,893.24	8,341.38	8,271.13	70.25	118.742		
9,300.00	7,806.99	8,015.46	7,727.53	56.49	42.19	-90.11	-9,361.13	5,893.24	8,257.64	8,187.22	70.42	117.266		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 6-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.00	7,806.99	8,015.73	7,727.81	57.83	42.20	-90.11	-9,361.13	5,893.23	8,174.26	8,103.62	70.64	115.712		
9,500.00	7,806.99	8,016.01	7,728.08	59.20	42.20	-90.12	-9,361.13	5,893.23	8,091.26	8,020.34	70.92	114.084		
9,600.00	7,806.98	8,016.29	7,728.36	60.59	42.20	-90.12	-9,361.13	5,893.23	8,008.65	7,937.39	71.26	112.382		
9,700.00	7,806.98	8,016.56	7,728.64	62.00	42.20	-90.12	-9,361.13	5,893.23	7,926.44	7,854.78	71.66	110.611		
9,800.00	7,806.98	8,016.84	7,728.92	63.43	42.20	-90.13	-9,361.14	5,893.23	7,844.65	7,772.53	72.12	108.775		
9,900.00	7,806.98	8,017.12	7,729.19	64.87	42.20	-90.13	-9,361.14	5,893.22	7,763.28	7,690.64	72.64	106.878		
10,000.00	7,806.98	8,017.40	7,729.47	66.34	42.20	-90.13	-9,361.14	5,893.22	7,682.35	7,609.13	73.22	104.926		
10,100.00	7,806.98	8,017.68	7,729.75	67.81	42.20	-90.14	-9,361.14	5,893.22	7,601.87	7,528.01	73.86	102.925		
10,200.00	7,806.98	8,017.96	7,730.03	69.30	42.20	-90.14	-9,361.14	5,893.22	7,521.86	7,447.30	74.56	100.880		
10,300.00	7,806.98	8,018.23	7,730.31	70.81	42.20	-90.14	-9,361.14	5,893.22	7,442.34	7,367.01	75.33	98.800		
10,400.00	7,806.97	8,018.51	7,730.59	72.32	42.20	-90.15	-9,361.14	5,893.22	7,363.31	7,287.16	76.15	96.689		
10,500.00	7,806.97	8,018.79	7,730.87	73.85	42.20	-90.15	-9,361.14	5,893.21	7,284.80	7,207.76	77.04	94.556		
10,600.00	7,806.97	8,019.07	7,731.15	75.39	42.20	-90.15	-9,361.14	5,893.21	7,206.82	7,128.83	77.99	92.405		
10,700.00	7,806.97	8,019.35	7,731.43	76.94	42.20	-90.16	-9,361.14	5,893.21	7,129.40	7,050.39	79.00	90.244		
10,800.00	7,806.97	8,019.64	7,731.71	78.49	42.20	-90.16	-9,361.14	5,893.21	7,052.54	6,972.47	80.07	88.079		
10,900.00	7,806.97	8,019.92	7,731.99	80.06	42.21	-90.17	-9,361.14	5,893.21	6,976.26	6,895.06	81.20	85.915		
11,000.00	7,806.97	8,020.20	7,732.27	81.64	42.21	-90.17	-9,361.15	5,893.21	6,900.60	6,818.21	82.39	83.759		
11,100.00	7,806.97	8,020.48	7,732.55	83.22	42.21	-90.17	-9,361.15	5,893.20	6,825.55	6,741.92	83.63	81.614		
11,200.00	7,806.96	8,020.76	7,732.84	84.81	42.21	-90.18	-9,361.15	5,893.20	6,751.16	6,666.23	84.94	79.486		
11,300.00	7,806.96	8,021.04	7,733.12	86.41	42.21	-90.18	-9,361.15	5,893.20	6,677.44	6,591.14	86.29	77.380		
11,400.00	7,806.96	8,021.33	7,733.40	88.01	42.21	-90.18	-9,361.15	5,893.20	6,604.40	6,516.69	87.71	75.298		
11,500.00	7,806.96	8,021.61	7,733.68	89.63	42.21	-90.19	-9,361.15	5,893.20	6,532.08	6,442.90	89.18	73.245		
11,600.00	7,806.96	8,021.89	7,733.97	91.24	42.21	-90.19	-9,361.15	5,893.19	6,460.50	6,369.79	90.71	71.224		
11,700.00	7,806.96	8,022.18	7,734.25	92.87	42.21	-90.19	-9,361.15	5,893.19	6,389.68	6,297.40	92.29	69.237		
11,800.00	7,806.96	8,022.46	7,734.53	94.49	42.21	-90.20	-9,361.15	5,893.19	6,319.65	6,225.73	93.92	67.287		
11,900.00	7,806.95	8,022.74	7,734.82	96.13	42.21	-90.20	-9,361.15	5,893.19	6,250.44	6,154.83	95.61	65.376		
12,000.00	7,806.95	8,023.03	7,735.10	97.77	42.21	-90.20	-9,361.15	5,893.19	6,182.07	6,084.72	97.35	63.506		
12,100.00	7,806.95	8,023.31	7,735.39	99.41	42.21	-90.21	-9,361.15	5,893.19	6,114.57	6,015.43	99.14	61.678		
12,200.00	7,806.95	8,023.60	7,735.67	101.06	42.21	-90.21	-9,361.16	5,893.18	6,047.97	5,946.99	100.98	59.893		
12,300.00	7,806.95	8,023.89	7,735.96	102.71	42.21	-90.22	-9,361.16	5,893.18	5,982.30	5,879.43	102.87	58.154		
12,400.00	7,806.95	8,024.17	7,736.25	104.37	42.22	-90.22	-9,361.16	5,893.18	5,917.59	5,812.78	104.81	56.459		
12,500.00	7,806.95	8,024.46	7,736.53	106.02	42.22	-90.22	-9,361.16	5,893.18	5,853.88	5,747.07	106.80	54.810		
12,600.00	7,806.95	8,024.74	7,736.82	107.69	42.22	-90.23	-9,361.16	5,893.18	5,791.19	5,682.35	108.84	53.204		
12,700.00	7,806.94	8,025.03	7,737.11	109.35	42.22	-90.23	-9,361.16	5,893.18	5,729.56	5,618.63	110.93	51.652		
12,800.00	7,806.94	8,025.32	7,737.39	111.02	42.22	-90.23	-9,361.16	5,893.17	5,669.02	5,555.96	113.06	50.143		
12,900.00	7,806.94	8,025.61	7,737.68	112.70	42.22	-90.24	-9,361.16	5,893.17	5,609.61	5,494.38	115.23	48.681		
13,000.00	7,806.94	8,025.89	7,737.97	114.37	42.22	-90.24	-9,361.16	5,893.17	5,551.37	5,433.92	117.45	47.265		
13,100.00	7,806.94	8,026.18	7,738.26	116.05	42.22	-90.24	-9,361.16	5,893.17	5,494.34	5,374.62	119.72	45.895		
13,200.00	7,806.94	8,026.47	7,738.55	117.74	42.22	-90.25	-9,361.16	5,893.17	5,438.54	5,316.52	122.02	44.571		
13,300.00	7,806.94	8,026.76	7,738.83	119.42	42.22	-90.25	-9,361.17	5,893.16	5,384.02	5,259.66	124.36	43.293		
13,400.00	7,806.94	8,027.05	7,739.12	121.11	42.22	-90.26	-9,361.17	5,893.16	5,330.82	5,204.08	126.74	42.060		
13,500.00	7,806.93	8,027.34	7,739.41	122.80	42.22	-90.26	-9,361.17	5,893.16	5,278.98	5,149.82	129.16	40.871		
13,600.00	7,806.93	8,027.63	7,739.70	124.49	42.22	-90.26	-9,361.17	5,893.16	5,228.54	5,096.92	131.61	39.726		
13,700.00	7,806.93	8,027.92	7,739.99	126.18	42.22	-90.27	-9,361.17	5,893.16	5,179.53	5,045.43	134.10	38.625		
13,800.00	7,806.93	8,028.21	7,740.28	127.88	42.23	-90.27	-9,361.17	5,893.16	5,132.01	4,995.40	136.61	37.566		
13,900.00	7,806.93	8,028.50	7,740.58	129.58	42.23	-90.27	-9,361.17	5,893.15	5,086.01	4,946.86	139.16	36.549		
14,000.00	7,806.93	8,028.79	7,740.87	131.28	42.23	-90.28	-9,361.17	5,893.15	5,041.58	4,899.85	141.72	35.574		
14,100.00	7,806.93	8,029.08	7,741.16	132.98	42.23	-90.28	-9,361.17	5,893.15	4,998.75	4,854.44	144.31	34.639		
14,200.00	7,806.93	8,029.38	7,741.45	134.68	42.23	-90.28	-9,361.17	5,893.15	4,957.56	4,810.64	146.92	33.744		
14,300.00	7,806.92	8,029.67	7,741.74	136.39	42.23	-90.29	-9,361.17	5,893.15	4,918.07	4,768.53	149.54	32.887		
14,400.00	7,806.92	8,029.96	7,742.04	138.10	42.23	-90.29	-9,361.17	5,893.14	4,880.31	4,728.13	152.18	32.069		
14,500.00	7,806.92	8,030.25	7,742.33	139.81	42.23	-90.30	-9,361.18	5,893.14	4,844.31	4,689.49	154.83	31.289		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 6-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,600.00	7,806.92	8,030.55	7,742.62	141.52	42.23	-90.30	-9,361.18	5,893.14	4,810.13	4,652.65	157.48	30.545	
14,700.00	7,806.92	8,030.84	7,742.92	143.23	42.23	-90.30	-9,361.18	5,893.14	4,777.79	4,617.66	160.13	29.837	
14,800.00	7,806.92	8,031.14	7,743.21	144.94	42.23	-90.31	-9,361.18	5,893.14	4,747.34	4,584.56	162.78	29.164	
14,900.00	7,806.92	8,031.43	7,743.50	146.66	42.23	-90.31	-9,361.18	5,893.13	4,718.82	4,553.39	165.43	28.525	
15,000.00	7,806.92	8,031.72	7,743.80	148.37	42.23	-90.31	-9,361.18	5,893.13	4,692.25	4,524.19	168.06	27.920	
15,100.00	7,806.91	8,032.02	7,744.09	150.09	42.23	-90.32	-9,361.18	5,893.13	4,667.67	4,496.99	170.68	27.347	
15,200.00	7,806.91	8,032.32	7,744.39	151.81	42.23	-90.32	-9,361.18	5,893.13	4,645.12	4,471.83	173.29	26.806	
15,300.00	7,806.91	8,032.61	7,744.69	153.53	42.24	-90.33	-9,361.18	5,893.13	4,624.62	4,448.76	175.87	26.296	
15,400.00	7,806.91	8,032.91	7,744.98	155.25	42.24	-90.33	-9,361.18	5,893.13	4,606.20	4,427.78	178.42	25.817	
15,500.00	7,806.91	8,033.20	7,745.28	156.97	42.24	-90.33	-9,361.18	5,893.12	4,589.89	4,408.95	180.94	25.367	
15,600.00	7,806.91	8,033.50	7,745.57	158.70	42.24	-90.34	-9,361.19	5,893.12	4,575.70	4,392.28	183.42	24.946	
15,700.00	7,806.91	8,033.80	7,745.87	160.42	42.24	-90.34	-9,361.19	5,893.12	4,563.66	4,377.79	185.87	24.553	
15,800.00	7,806.91	8,034.10	7,746.17	162.15	42.24	-90.34	-9,361.19	5,893.12	4,553.79	4,365.52	188.27	24.188	
15,900.00	7,806.90	8,034.39	7,746.47	163.88	42.24	-90.35	-9,361.19	5,893.12	4,546.09	4,355.47	190.62	23.849	
16,000.00	7,806.90	8,034.69	7,746.77	165.60	42.24	-90.35	-9,361.19	5,893.11	4,540.59	4,347.67	192.92	23.536	
16,100.00	7,806.90	8,034.99	7,747.06	167.33	42.24	-90.36	-9,361.19	5,893.11	4,537.28	4,342.11	195.16	23.249	
16,200.00	7,806.90	8,035.29	7,747.36	169.06	42.24	-90.36	-9,361.19	5,893.11	4,536.17	4,338.82	197.35	22.986	
16,200.15	7,806.90	8,035.29	7,747.36	169.06	42.24	-90.36	-9,361.19	5,893.11	4,536.17	4,338.82	197.35	22.985 CC	
16,300.00	7,806.90	8,035.59	7,747.66	170.79	42.24	-90.36	-9,361.19	5,893.11	4,537.27	4,337.80	199.47	22.747 ES	
16,400.00	7,806.90	8,035.89	7,747.96	172.52	42.24	-90.37	-9,361.19	5,893.11	4,540.57	4,339.04	201.53	22.531	
16,500.00	7,806.90	8,036.19	7,748.26	174.26	42.24	-90.37	-9,361.19	5,893.11	4,546.07	4,342.55	203.52	22.338	
16,600.00	7,806.89	8,036.49	7,748.56	175.99	42.24	-90.37	-9,361.19	5,893.10	4,553.76	4,348.33	205.43	22.166	
16,700.00	7,806.89	8,036.79	7,748.86	177.72	42.25	-90.38	-9,361.20	5,893.10	4,563.63	4,356.35	207.28	22.017	
16,800.00	7,806.89	8,037.09	7,749.17	179.46	42.25	-90.38	-9,361.20	5,893.10	4,575.66	4,366.61	209.05	21.888	
16,900.00	7,806.89	8,037.39	7,749.47	181.19	42.25	-90.39	-9,361.20	5,893.10	4,589.84	4,379.10	210.75	21.779	
17,000.00	7,806.89	8,037.69	7,749.77	182.93	42.25	-90.39	-9,361.20	5,893.10	4,606.15	4,393.79	212.36	21.690	
17,100.00	7,806.89	8,038.00	7,750.07	184.67	42.25	-90.39	-9,361.20	5,893.09	4,624.56	4,410.66	213.90	21.620	
17,200.00	7,806.89	8,038.30	7,750.37	186.40	42.25	-90.40	-9,361.20	5,893.09	4,645.06	4,429.70	215.36	21.569	
17,300.00	7,806.89	8,038.60	7,750.68	188.14	42.25	-90.40	-9,361.20	5,893.09	4,667.60	4,450.86	216.74	21.535	
17,400.00	7,806.88	8,038.91	7,750.98	189.88	42.25	-90.41	-9,361.20	5,893.09	4,692.17	4,474.13	218.04	21.520 SF	
17,500.00	7,806.88	8,039.21	7,751.28	191.62	42.25	-90.41	-9,361.20	5,893.09	4,718.73	4,499.47	219.26	21.521	
17,600.00	7,806.88	8,039.51	7,751.59	193.36	42.25	-90.41	-9,361.20	5,893.08	4,747.25	4,526.85	220.41	21.539	
17,700.00	7,806.88	8,039.82	7,751.89	195.10	42.25	-90.42	-9,361.21	5,893.08	4,777.70	4,556.22	221.47	21.572	
17,800.00	7,806.88	8,040.12	7,752.20	196.84	42.25	-90.42	-9,361.21	5,893.08	4,810.02	4,587.56	222.46	21.622	
17,900.00	7,806.88	8,040.43	7,752.50	198.58	42.25	-90.42	-9,361.21	5,893.08	4,844.20	4,620.83	223.38	21.686	
18,000.00	7,806.88	8,040.73	7,752.81	200.33	42.26	-90.43	-9,361.21	5,893.08	4,880.19	4,655.97	224.22	21.765	
18,027.46	7,807.00	8,040.94	7,753.02	200.80	42.26	-90.43	-9,361.21	5,893.08	4,890.63	4,666.19	224.44	21.790	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,950.00	7,660.33	7,625.33	7,625.33	41.61	152.98	-24.19	-10,730.11	4,238.11	9,994.47	9,808.46	186.00	53.732		
8,000.00	7,692.07	7,657.07	7,657.07	42.00	153.62	-26.64	-10,730.11	4,238.11	9,957.49	9,770.82	186.68	53.341		
8,050.00	7,720.33	7,685.33	7,685.33	42.40	154.18	-29.78	-10,730.11	4,238.11	9,918.02	9,730.76	187.26	52.964		
8,100.00	7,744.89	7,709.89	7,709.89	42.83	154.68	-33.88	-10,730.11	4,238.11	9,876.36	9,688.61	187.75	52.604		
8,150.00	7,765.56	7,730.56	7,730.56	43.27	155.09	-39.29	-10,730.11	4,238.11	9,832.83	9,644.69	188.14	52.263		
8,200.00	7,782.18	7,747.18	7,747.18	43.74	155.43	-46.52	-10,730.11	4,238.11	9,787.75	9,599.32	188.43	51.944		
8,250.00	7,794.63	7,759.63	7,759.63	44.22	155.68	-56.20	-10,730.11	4,238.11	9,741.49	9,552.87	188.62	51.647		
8,300.00	7,802.82	7,767.82	7,767.82	44.71	155.84	-68.76	-10,730.11	4,238.11	9,694.38	9,505.68	188.70	51.374		
8,350.00	7,806.68	7,771.68	7,771.68	45.21	155.92	-83.85	-10,730.11	4,238.11	9,646.80	9,458.12	188.68	51.127		
8,369.28	7,807.00	7,772.00	7,772.00	45.40	155.93	-90.00	-10,730.11	4,238.11	9,628.40	9,439.75	188.65	51.039		
8,400.00	7,807.00	7,772.00	7,772.00	45.72	155.93	-90.00	-10,730.11	4,238.11	9,599.08	9,410.50	188.58	50.902		
8,500.00	7,807.00	7,772.00	7,772.00	46.77	155.93	-90.00	-10,730.11	4,238.11	9,503.71	9,315.35	188.37	50.453		
8,600.00	7,807.00	7,772.00	7,772.00	47.86	155.93	-90.00	-10,730.11	4,238.11	9,408.44	9,220.28	188.16	50.002		
8,700.00	7,807.00	7,772.00	7,772.00	48.99	155.93	-90.00	-10,730.11	4,238.11	9,313.27	9,125.31	187.96	49.549		
8,800.00	7,806.99	7,771.99	7,771.99	50.16	155.93	-90.00	-10,730.11	4,238.11	9,218.19	9,030.42	187.77	49.092		
8,900.00	7,806.99	7,771.99	7,771.99	51.37	155.93	-90.00	-10,730.11	4,238.11	9,123.23	8,935.64	187.59	48.633		
9,000.00	7,806.99	7,771.99	7,771.99	52.60	155.93	-90.00	-10,730.11	4,238.11	9,028.37	8,840.95	187.43	48.171		
9,100.00	7,806.99	7,771.99	7,771.99	53.87	155.93	-90.00	-10,730.11	4,238.11	8,933.63	8,746.36	187.27	47.705		
9,200.00	7,806.99	7,771.99	7,771.99	55.17	155.93	-90.00	-10,730.11	4,238.11	8,839.00	8,651.87	187.13	47.235		
9,300.00	7,806.99	7,771.99	7,771.99	56.49	155.93	-90.00	-10,730.11	4,238.11	8,744.49	8,557.49	187.00	46.762		
9,400.00	7,806.99	7,771.99	7,771.99	57.83	155.93	-90.00	-10,730.11	4,238.11	8,650.10	8,463.21	186.89	46.285		
9,500.00	7,806.99	7,771.99	7,771.99	59.20	155.93	-90.00	-10,730.11	4,238.11	8,555.84	8,369.05	186.79	45.804		
9,600.00	7,806.98	7,771.98	7,771.98	60.59	155.93	-90.00	-10,730.11	4,238.11	8,461.71	8,275.00	186.71	45.319		
9,700.00	7,806.98	7,771.98	7,771.98	62.00	155.93	-90.00	-10,730.11	4,238.11	8,367.72	8,181.06	186.66	44.829		
9,800.00	7,806.98	7,771.98	7,771.98	63.43	155.93	-90.00	-10,730.11	4,238.11	8,273.87	8,087.25	186.62	44.335		
9,900.00	7,806.98	7,771.98	7,771.98	64.87	155.93	-90.00	-10,730.11	4,238.11	8,180.17	7,993.56	186.61	43.836		
10,000.00	7,806.98	7,771.98	7,771.98	66.34	155.93	-90.00	-10,730.11	4,238.11	8,086.61	7,899.99	186.62	43.332		
10,100.00	7,806.98	7,771.98	7,771.98	67.81	155.93	-90.00	-10,730.11	4,238.11	7,993.21	7,806.56	186.66	42.823		
10,200.00	7,806.98	7,771.98	7,771.98	69.30	155.93	-90.00	-10,730.11	4,238.11	7,899.98	7,713.25	186.72	42.308		
10,300.00	7,806.98	7,771.98	7,771.98	70.81	155.93	-90.00	-10,730.11	4,238.11	7,806.91	7,620.09	186.82	41.788		
10,400.00	7,806.97	7,771.97	7,771.97	72.32	155.93	-90.00	-10,730.11	4,238.11	7,714.01	7,527.07	186.95	41.263		
10,500.00	7,806.97	7,771.97	7,771.97	73.85	155.93	-90.00	-10,730.11	4,238.11	7,621.30	7,434.19	187.11	40.732		
10,600.00	7,806.97	7,771.97	7,771.97	75.39	155.93	-90.00	-10,730.11	4,238.11	7,528.77	7,341.47	187.30	40.195		
10,700.00	7,806.97	7,771.97	7,771.97	76.94	155.93	-90.00	-10,730.11	4,238.11	7,436.43	7,248.90	187.54	39.653		
10,800.00	7,806.97	7,771.97	7,771.97	78.49	155.93	-90.00	-10,730.11	4,238.11	7,344.30	7,156.49	187.81	39.105		
10,900.00	7,806.97	7,771.97	7,771.97	80.06	155.93	-90.00	-10,730.11	4,238.11	7,252.37	7,064.25	188.12	38.552		
11,000.00	7,806.97	7,771.97	7,771.97	81.64	155.93	-90.00	-10,730.11	4,238.11	7,160.66	6,972.19	188.48	37.992		
11,100.00	7,806.97	7,771.97	7,771.97	83.22	155.93	-90.00	-10,730.11	4,238.11	7,069.18	6,880.30	188.88	37.428		
11,200.00	7,806.96	7,771.96	7,771.96	84.81	155.93	-90.00	-10,730.11	4,238.11	6,977.93	6,788.61	189.32	36.858		
11,300.00	7,806.96	7,771.96	7,771.96	86.41	155.93	-90.00	-10,730.11	4,238.11	6,886.92	6,697.11	189.81	36.283		
11,400.00	7,806.96	7,771.96	7,771.96	88.01	155.93	-90.00	-10,730.11	4,238.11	6,796.16	6,605.81	190.35	35.703		
11,500.00	7,806.96	7,771.96	7,771.96	89.63	155.93	-90.00	-10,730.11	4,238.11	6,705.67	6,514.72	190.95	35.118		
11,600.00	7,806.96	7,771.96	7,771.96	91.24	155.93	-90.00	-10,730.11	4,238.11	6,615.45	6,423.86	191.59	34.529		
11,700.00	7,806.96	7,771.96	7,771.96	92.87	155.93	-90.00	-10,730.11	4,238.11	6,525.52	6,333.23	192.29	33.936		
11,800.00	7,806.96	7,771.96	7,771.96	94.49	155.93	-90.00	-10,730.11	4,238.11	6,435.88	6,242.84	193.04	33.339		
11,900.00	7,806.95	7,771.95	7,771.95	96.13	155.93	-90.00	-10,730.11	4,238.11	6,346.55	6,152.70	193.85	32.739		
12,000.00	7,806.95	7,771.95	7,771.95	97.77	155.93	-90.00	-10,730.11	4,238.11	6,257.55	6,062.83	194.72	32.136		
12,100.00	7,806.95	7,771.95	7,771.95	99.41	155.93	-90.00	-10,730.11	4,238.11	6,168.88	5,973.24	195.64	31.531		
12,200.00	7,806.95	7,771.95	7,771.95	101.06	155.93	-90.00	-10,730.11	4,238.11	6,080.57	5,883.93	196.63	30.924		
12,300.00	7,806.95	7,771.95	7,771.95	102.71	155.93	-90.00	-10,730.11	4,238.11	5,992.62	5,794.94	197.68	30.314		
12,400.00	7,806.95	7,771.95	7,771.95	104.37	155.93	-90.00	-10,730.11	4,238.11	5,905.05	5,706.26	198.79	29.704		
12,500.00	7,806.95	7,771.95	7,771.95	106.02	155.93	-90.00	-10,730.11	4,238.11	5,817.89	5,617.92	199.97	29.094		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,600.00	7,806.95	7,771.95	7,771.95	107.69	155.93	-90.00	-10,730.11	4,238.11	5,731.14	5,529.93	201.21	28.483		
12,700.00	7,806.94	7,771.94	7,771.94	109.35	155.93	-90.00	-10,730.11	4,238.11	5,644.84	5,442.31	202.52	27.872		
12,800.00	7,806.94	7,771.94	7,771.94	111.02	155.93	-90.00	-10,730.11	4,238.11	5,558.99	5,355.09	203.90	27.263		
12,900.00	7,806.94	7,771.94	7,771.94	112.70	155.93	-90.00	-10,730.11	4,238.11	5,473.62	5,268.27	205.35	26.655		
13,000.00	7,806.94	7,771.94	7,771.94	114.37	155.93	-90.00	-10,730.11	4,238.11	5,388.76	5,181.89	206.87	26.049		
13,100.00	7,806.94	7,771.94	7,771.94	116.05	155.93	-90.00	-10,730.11	4,238.11	5,304.42	5,095.96	208.46	25.445		
13,200.00	7,806.94	7,771.94	7,771.94	117.74	155.93	-90.00	-10,730.11	4,238.11	5,220.64	5,010.51	210.13	24.845		
13,300.00	7,806.94	7,771.94	7,771.94	119.42	155.93	-90.00	-10,730.11	4,238.11	5,137.44	4,925.57	211.87	24.248		
13,400.00	7,806.94	7,771.94	7,771.94	121.11	155.93	-90.00	-10,730.11	4,238.11	5,054.84	4,841.15	213.69	23.655		
13,500.00	7,806.93	7,771.93	7,771.93	122.80	155.93	-90.00	-10,730.11	4,238.11	4,972.89	4,757.30	215.59	23.067		
13,600.00	7,806.93	7,771.93	7,771.93	124.49	155.93	-90.00	-10,730.11	4,238.11	4,891.61	4,674.04	217.57	22.483		
13,700.00	7,806.93	7,771.93	7,771.93	126.18	155.93	-90.00	-10,730.11	4,238.11	4,811.03	4,591.40	219.63	21.905		
13,800.00	7,806.93	7,771.93	7,771.93	127.88	155.93	-90.00	-10,730.11	4,238.11	4,731.19	4,509.42	221.77	21.333		
13,900.00	7,806.93	7,771.93	7,771.93	129.58	155.93	-90.00	-10,730.11	4,238.11	4,652.14	4,428.13	224.00	20.768		
14,000.00	7,806.93	7,771.93	7,771.93	131.28	155.93	-90.00	-10,730.11	4,238.11	4,573.90	4,347.58	226.32	20.210		
14,100.00	7,806.93	7,771.93	7,771.93	132.98	155.93	-90.00	-10,730.11	4,238.11	4,496.52	4,267.80	228.73	19.659		
14,200.00	7,806.93	7,771.93	7,771.93	134.68	155.93	-90.00	-10,730.11	4,238.11	4,420.06	4,188.84	231.22	19.116		
14,300.00	7,806.92	7,771.92	7,771.92	136.39	155.93	-90.00	-10,730.11	4,238.11	4,344.55	4,110.74	233.81	18.582		
14,400.00	7,806.92	7,771.92	7,771.92	138.10	155.93	-90.00	-10,730.11	4,238.11	4,270.04	4,033.56	236.49	18.056		
14,500.00	7,806.92	7,771.92	7,771.92	139.81	155.93	-90.00	-10,730.11	4,238.11	4,196.60	3,957.34	239.26	17.540		
14,600.00	7,806.92	7,771.92	7,771.92	141.52	155.93	-90.00	-10,730.11	4,238.11	4,124.27	3,882.15	242.12	17.034		
14,700.00	7,806.92	7,771.92	7,771.92	143.23	155.93	-90.00	-10,730.11	4,238.11	4,053.12	3,808.04	245.09	16.538		
14,800.00	7,806.92	7,771.92	7,771.92	144.94	155.93	-90.00	-10,730.11	4,238.11	3,983.21	3,735.07	248.14	16.052		
14,900.00	7,806.92	7,771.92	7,771.92	146.66	155.93	-90.00	-10,730.11	4,238.11	3,914.61	3,663.32	251.29	15.578		
15,000.00	7,806.92	7,771.92	7,771.92	148.37	155.93	-90.00	-10,730.11	4,238.11	3,847.38	3,592.85	254.54	15.115		
15,100.00	7,806.91	7,771.91	7,771.91	150.09	155.93	-90.00	-10,730.11	4,238.11	3,781.61	3,523.73	257.87	14.665		
15,200.00	7,806.91	7,771.91	7,771.91	151.81	155.93	-90.00	-10,730.11	4,238.11	3,717.35	3,456.06	261.30	14.226		
15,300.00	7,806.91	7,771.91	7,771.91	153.53	155.93	-90.00	-10,730.11	4,238.11	3,654.71	3,389.90	264.81	13.801		
15,400.00	7,806.91	7,771.91	7,771.91	155.25	155.93	-90.00	-10,730.11	4,238.11	3,593.76	3,325.34	268.41	13.389		
15,500.00	7,806.91	7,771.91	7,771.91	156.97	155.93	-90.00	-10,730.11	4,238.11	3,534.58	3,262.49	272.09	12.990		
15,600.00	7,806.91	7,771.91	7,771.91	158.70	155.93	-90.00	-10,730.11	4,238.11	3,477.28	3,201.43	275.85	12.606		
15,700.00	7,806.91	7,771.91	7,771.91	160.42	155.93	-90.00	-10,730.11	4,238.11	3,421.93	3,142.26	279.67	12.235		
15,800.00	7,806.91	7,771.91	7,771.91	162.15	155.93	-90.00	-10,730.11	4,238.11	3,368.65	3,085.09	283.56	11.880		
15,900.00	7,806.90	7,771.90	7,771.90	163.88	155.93	-90.00	-10,730.11	4,238.11	3,317.53	3,030.03	287.50	11.539		
16,000.00	7,806.90	7,771.90	7,771.90	165.60	155.93	-90.00	-10,730.11	4,238.11	3,268.66	2,977.19	291.48	11.214		
16,100.00	7,806.90	7,771.90	7,771.90	167.33	155.93	-90.00	-10,730.11	4,238.11	3,222.17	2,926.68	295.49	10.905		
16,200.00	7,806.90	7,771.90	7,771.90	169.06	155.93	-90.00	-10,730.11	4,238.11	3,178.13	2,878.62	299.52	10.611		
16,300.00	7,806.90	7,771.90	7,771.90	170.79	155.93	-90.00	-10,730.11	4,238.11	3,136.67	2,833.12	303.55	10.333		
16,400.00	7,806.90	7,771.90	7,771.90	172.52	155.92	-90.00	-10,730.11	4,238.11	3,097.89	2,790.31	307.57	10.072		
16,500.00	7,806.90	7,771.90	7,771.90	174.26	155.92	-90.00	-10,730.11	4,238.11	3,061.87	2,750.31	311.57	9.827		
16,600.00	7,806.89	7,771.89	7,771.89	175.99	155.92	-90.00	-10,730.11	4,238.11	3,028.74	2,713.22	315.52	9.599		
16,700.00	7,806.89	7,771.89	7,771.89	177.72	155.92	-90.00	-10,730.11	4,238.11	2,998.57	2,679.17	319.40	9.388		
16,800.00	7,806.89	7,771.89	7,771.89	179.46	155.92	-90.00	-10,730.11	4,238.11	2,971.47	2,648.26	323.21	9.194		
16,900.00	7,806.89	7,771.89	7,771.89	181.19	155.92	-90.00	-10,730.11	4,238.11	2,947.51	2,620.60	326.91	9.016		
17,000.00	7,806.89	7,771.89	7,771.89	182.93	155.92	-90.00	-10,730.11	4,238.11	2,926.77	2,596.28	330.49	8.856		
17,100.00	7,806.89	7,771.89	7,771.89	184.67	155.92	-90.00	-10,730.11	4,238.11	2,909.32	2,575.40	333.92	8.713		
17,200.00	7,806.89	7,771.89	7,771.89	186.40	155.92	-90.00	-10,730.11	4,238.11	2,895.23	2,558.02	337.20	8.586		
17,300.00	7,806.89	7,771.89	7,771.89	188.14	155.92	-90.00	-10,730.11	4,238.11	2,884.53	2,544.22	340.31	8.476		
17,400.00	7,806.88	7,771.88	7,771.88	189.88	155.92	-90.00	-10,730.11	4,238.11	2,877.27	2,534.05	343.22	8.383		
17,500.00	7,806.88	7,771.88	7,771.88	191.62	155.92	-90.00	-10,730.11	4,238.11	2,873.48	2,527.55	345.93	8.307		
17,559.09	7,806.88	7,771.88	7,771.88	192.65	155.92	-90.00	-10,730.11	4,238.11	2,872.87	2,525.45	347.42	8.269 CC		
17,600.00	7,806.88	7,771.88	7,771.88	193.36	155.92	-90.00	-10,730.11	4,238.11	2,873.16	2,524.75	348.42	8.246 ES		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		Sec 3-T1S-R68W - EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,700.00	7,806.88	7,771.88	7,771.88	195.10	155.92	-90.00	-10,730.11	4,238.11	2,876.33	2,525.65	350.68	8.202	
17,800.00	7,806.88	7,771.88	7,771.88	196.84	155.92	-90.00	-10,730.11	4,238.11	2,882.96	2,530.25	352.71	8.174	
17,900.00	7,806.88	7,771.88	7,771.88	198.58	155.92	-90.00	-10,730.11	4,238.11	2,893.03	2,538.53	354.50	8.161 SF	
18,000.00	7,806.88	7,771.88	7,771.88	200.33	155.92	-90.00	-10,730.11	4,238.11	2,906.51	2,550.46	356.05	8.163	
18,027.46	7,807.00	7,772.00	7,772.00	200.80	155.93	-90.00	-10,730.11	4,238.11	2,911.07	2,554.63	356.44	8.167	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - ABND VERT ASHER 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	9.00	9.00	0.00	0.11	-173.65	-7,376.96	-820.81	7,422.48					
100.00	100.00	109.00	109.00	0.13	1.40	-173.65	-7,376.96	-820.81	7,422.48	7,420.94	1.54	4,823.809		
200.00	200.00	209.00	209.00	0.49	3.67	-173.65	-7,376.96	-820.81	7,422.48	7,418.31	4.17	1,780.902		
300.00	300.00	309.00	309.00	0.85	5.75	-173.65	-7,376.96	-820.81	7,422.48	7,415.88	6.60	1,124.386		
400.00	400.00	409.00	409.00	1.21	7.79	-173.65	-7,376.96	-820.81	7,422.48	7,413.48	9.00	824.643		
500.00	500.00	509.00	509.00	1.57	9.82	-173.65	-7,376.96	-820.81	7,422.48	7,411.09	11.39	651.792		
600.00	600.00	609.00	609.00	1.93	11.84	-173.65	-7,376.96	-820.81	7,422.48	7,408.71	13.77	539.082		
700.00	700.00	709.00	709.00	2.29	13.86	-173.65	-7,376.96	-820.81	7,422.48	7,406.33	16.15	459.702		
800.00	800.00	809.00	809.00	2.64	15.88	-173.65	-7,376.96	-820.81	7,422.48	7,403.96	18.52	400.743		
900.00	900.00	909.00	909.00	3.00	17.89	-173.65	-7,376.96	-820.81	7,422.48	7,401.59	20.90	355.212		
1,000.00	1,000.00	1,009.00	1,009.00	3.36	19.91	-173.65	-7,376.96	-820.81	7,422.48	7,399.21	23.27	318.985		
1,100.00	1,099.98	1,108.98	1,108.98	3.71	21.92	59.37	-7,376.96	-820.81	7,421.59	7,395.96	25.63	289.594		
1,200.00	1,199.84	1,208.84	1,208.84	4.04	23.93	59.45	-7,376.96	-820.81	7,418.93	7,390.95	27.97	265.202		
1,300.00	1,299.45	1,308.45	1,308.45	4.39	25.94	59.59	-7,376.96	-820.81	7,414.49	7,384.17	30.32	244.508		
1,400.00	1,398.70	1,407.70	1,407.70	4.74	27.94	59.77	-7,376.96	-820.81	7,408.30	7,375.63	32.68	226.720		
1,500.00	1,497.47	1,506.47	1,506.47	5.12	29.92	60.01	-7,376.96	-820.81	7,400.38	7,365.35	35.03	211.252		
1,600.00	1,595.62	1,604.62	1,604.62	5.51	31.90	60.31	-7,376.96	-820.81	7,390.76	7,353.37	37.39	197.662		
1,700.00	1,693.06	1,702.06	1,702.06	5.94	33.86	60.66	-7,376.96	-820.81	7,379.45	7,339.70	39.76	185.612		
1,800.00	1,789.64	1,801.36	1,798.64	6.39	35.86	61.05	-7,376.96	-820.81	7,366.51	7,324.33	42.19	174.612		
1,863.26	1,850.25	1,859.25	1,859.25	6.70	37.02	61.33	-7,376.96	-820.81	7,357.50	7,313.86	43.64	168.587		
1,900.00	1,885.34	1,905.66	1,894.34	6.89	37.96	61.41	-7,376.96	-820.81	7,352.09	7,307.34	44.75	164.297		
2,000.00	1,980.83	1,989.83	1,989.83	7.41	39.65	61.60	-7,376.96	-820.81	7,337.42	7,290.50	46.92	156.366		
2,100.00	2,076.33	2,085.33	2,085.33	7.95	41.57	61.80	-7,376.96	-820.81	7,322.84	7,273.50	49.34	148.404		
2,200.00	2,171.82	2,180.82	2,180.82	8.50	43.49	62.00	-7,376.96	-820.81	7,308.36	7,256.58	51.78	141.152		
2,300.00	2,267.32	2,276.32	2,276.32	9.07	45.41	62.20	-7,376.96	-820.81	7,293.97	7,239.75	54.22	134.525		
2,400.00	2,362.81	2,371.81	2,371.81	9.64	47.33	62.40	-7,376.96	-820.81	7,279.66	7,222.99	56.67	128.449		
2,500.00	2,458.30	2,467.30	2,467.30	10.22	49.25	62.60	-7,376.96	-820.81	7,265.46	7,206.32	59.14	122.862		
2,600.00	2,553.80	2,562.80	2,562.80	10.81	51.17	62.80	-7,376.96	-820.81	7,251.34	7,189.74	61.60	117.710		
2,700.00	2,649.29	2,658.29	2,658.29	11.41	53.10	63.00	-7,376.96	-820.81	7,237.32	7,173.24	64.08	112.944		
2,800.00	2,744.79	2,753.79	2,753.79	12.01	55.02	63.20	-7,376.96	-820.81	7,223.40	7,156.84	66.56	108.526		
2,900.00	2,840.28	2,849.28	2,849.28	12.61	56.94	63.40	-7,376.96	-820.81	7,209.57	7,140.52	69.04	104.419		
3,000.00	2,935.77	2,944.77	2,944.77	13.22	58.86	63.61	-7,376.96	-820.81	7,195.83	7,124.30	71.53	100.592		
3,100.00	3,031.27	3,040.27	3,040.27	13.83	60.78	63.81	-7,376.96	-820.81	7,182.20	7,108.17	74.03	97.018		
3,200.00	3,126.76	3,135.76	3,135.76	14.44	62.70	64.02	-7,376.96	-820.81	7,168.66	7,092.13	76.53	93.675		
3,300.00	3,222.26	3,231.26	3,231.26	15.06	64.62	64.22	-7,376.96	-820.81	7,155.21	7,076.18	79.03	90.540		
3,400.00	3,317.75	3,326.75	3,326.75	15.68	66.54	64.43	-7,376.96	-820.81	7,141.87	7,060.33	81.53	87.595		
3,500.00	3,413.25	3,422.25	3,422.25	16.30	68.46	64.64	-7,376.96	-820.81	7,128.62	7,044.58	84.04	84.823		
3,600.00	3,508.74	3,517.74	3,517.74	16.92	70.38	64.84	-7,376.96	-820.81	7,115.47	7,028.92	86.55	82.211		
3,700.00	3,604.23	3,613.23	3,613.23	17.54	72.30	65.05	-7,376.96	-820.81	7,102.43	7,013.36	89.06	79.745		
3,800.00	3,699.73	3,708.73	3,708.73	18.17	74.22	65.26	-7,376.96	-820.81	7,089.48	6,997.90	91.58	77.413		
3,900.00	3,795.22	3,804.22	3,804.22	18.79	76.14	65.47	-7,376.96	-820.81	7,076.63	6,982.53	94.10	75.205		
4,000.00	3,890.72	3,900.28	3,899.72	19.42	78.08	65.68	-7,376.96	-820.81	7,063.89	6,967.26	96.63	73.103		
4,100.00	3,986.21	4,004.79	3,995.21	20.05	80.18	65.89	-7,376.96	-820.81	7,051.24	6,951.91	99.33	70.986		
4,200.00	4,081.70	4,109.30	4,090.70	20.67	82.28	66.11	-7,376.96	-820.81	7,038.70	6,936.66	102.04	68.980		
4,300.00	4,177.20	4,186.20	4,186.20	21.30	83.83	66.32	-7,376.96	-820.81	7,026.26	6,922.07	104.19	67.436		
4,400.00	4,272.69	4,281.69	4,281.69	21.93	85.75	66.53	-7,376.96	-820.81	7,013.93	6,907.21	106.72	65.723		
4,500.00	4,368.19	4,377.19	4,377.19	22.56	87.67	66.75	-7,376.96	-820.81	7,001.70	6,892.45	109.25	64.089		
4,600.00	4,463.68	4,472.68	4,472.68	23.19	89.59	66.96	-7,376.96	-820.81	6,989.57	6,877.79	111.78	62.528		
4,700.00	4,559.17	4,568.17	4,568.17	23.83	91.51	67.18	-7,376.96	-820.81	6,977.55	6,863.23	114.32	61.037		
4,800.00	4,654.67	4,663.67	4,663.67	24.46	93.43	67.40	-7,376.96	-820.81	6,965.64	6,848.78	116.85	59.611		
4,900.00	4,750.16	4,759.16	4,759.16	25.09	95.35	67.61	-7,376.96	-820.81	6,953.83	6,834.44	119.39	58.245		
5,000.00	4,845.66	4,854.66	4,854.66	25.72	97.27	67.83	-7,376.96	-820.81	6,942.13	6,820.20	121.93	56.937		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,950.15	4,950.15	26.36	99.19	68.05	-7,376.96	-820.81	6,930.53	6,806.06	124.47	55.681		
5,200.00	5,036.65	5,045.65	5,045.65	26.99	101.11	68.27	-7,376.96	-820.81	6,919.04	6,792.03	127.01	54.477		
5,300.00	5,132.14	5,141.14	5,141.14	27.63	103.03	68.49	-7,376.96	-820.81	6,907.67	6,778.11	129.55	53.319		
5,400.00	5,227.63	5,236.63	5,236.63	28.26	104.95	68.71	-7,376.96	-820.81	6,896.40	6,764.30	132.10	52.207		
5,500.00	5,323.13	5,332.13	5,332.13	28.90	106.87	68.93	-7,376.96	-820.81	6,885.24	6,750.59	134.64	51.137		
5,600.00	5,418.62	5,427.62	5,427.62	29.53	108.79	69.15	-7,376.96	-820.81	6,874.19	6,737.00	137.19	50.107		
5,700.00	5,514.12	5,523.12	5,523.12	30.17	110.71	69.37	-7,376.96	-820.81	6,863.25	6,723.51	139.74	49.115		
5,800.00	5,609.61	5,618.61	5,618.61	30.80	112.63	69.60	-7,376.96	-820.81	6,852.42	6,710.13	142.29	48.159		
5,900.00	5,705.10	5,625.00	5,625.00	31.44	112.76	69.61	-7,376.96	-820.81	6,842.28	6,699.23	143.05	47.832		
6,000.00	5,800.60	5,625.00	5,625.00	32.08	112.76	69.61	-7,376.96	-820.81	6,833.59	6,689.94	143.66	47.569		
6,100.00	5,896.09	5,625.00	5,625.00	32.71	112.76	69.61	-7,376.96	-820.81	6,826.36	6,682.12	144.24	47.327		
6,200.00	5,991.59	5,625.00	5,625.00	33.35	112.76	69.61	-7,376.96	-820.81	6,820.58	6,675.78	144.79	47.106		
6,300.00	6,087.08	5,625.00	5,625.00	33.99	112.76	69.61	-7,376.96	-820.81	6,816.26	6,670.94	145.32	46.906		
6,400.00	6,182.57	5,625.00	5,625.00	34.62	112.76	69.61	-7,376.96	-820.81	6,813.41	6,667.59	145.82	46.726		
6,499.99	6,278.06	5,625.00	5,625.00	35.26	112.76	69.61	-7,376.96	-820.81	6,812.03	6,665.74	146.29	46.566		
6,505.95	6,283.75	5,625.00	5,625.00	35.30	112.76	69.61	-7,376.96	-820.81	6,811.99	6,665.68	146.32	46.557		
6,526.91	6,303.79	5,625.00	5,625.00	35.43	112.76	69.61	-7,376.96	-820.81	6,811.93	6,665.53	146.41	46.528		
6,600.00	6,374.00	5,625.00	5,625.00	35.88	112.76	69.62	-7,376.96	-820.81	6,812.65	6,665.94	146.71	46.437		
6,700.00	6,470.87	5,625.00	5,625.00	36.44	112.76	69.69	-7,376.96	-820.81	6,815.95	6,668.90	147.05	46.352		
6,800.00	6,568.53	5,625.00	5,625.00	36.96	112.76	69.80	-7,376.96	-820.81	6,821.93	6,674.62	147.31	46.311		
6,900.00	6,666.89	5,625.00	5,625.00	37.43	112.76	69.96	-7,376.96	-820.81	6,830.56	6,683.07	147.49	46.313		
7,000.00	6,765.82	5,625.00	5,625.00	37.85	112.76	70.17	-7,376.96	-820.81	6,841.84	6,694.25	147.59	46.357		
7,100.00	6,865.19	5,625.00	5,625.00	38.22	112.76	70.44	-7,376.96	-820.81	6,855.72	6,708.11	147.62	46.443		
7,200.00	6,964.89	5,625.00	5,625.00	38.55	112.76	70.75	-7,376.96	-820.81	6,872.19	6,724.62	147.57	46.570		
7,300.00	7,064.80	5,625.00	5,625.00	38.83	112.76	71.12	-7,376.96	-820.81	6,891.20	6,743.75	147.45	46.737		
7,369.20	7,134.00	5,625.00	5,625.00	39.00	112.76	-161.59	-7,376.96	-820.81	6,905.82	6,758.50	147.32	46.876		
7,400.00	7,164.80	5,625.00	5,625.00	39.06	112.76	-161.59	-7,376.96	-820.81	6,912.65	6,765.40	147.25	46.944		
7,469.20	7,234.00	5,625.00	5,625.00	39.22	112.76	-161.59	-7,376.96	-820.81	6,928.49	6,781.39	147.09	47.102		
7,500.00	7,264.78	5,625.00	5,625.00	39.29	112.76	18.54	-7,376.96	-820.81	6,934.98	6,787.95	147.02	47.169		
7,550.00	7,314.53	5,625.00	5,625.00	39.44	112.76	18.30	-7,376.96	-820.81	6,942.51	6,795.59	146.92	47.255		
7,600.00	7,363.66	5,625.00	5,625.00	39.62	112.76	18.18	-7,376.96	-820.81	6,946.29	6,799.47	146.82	47.311		
7,650.00	7,411.81	5,625.00	5,625.00	39.82	112.76	18.18	-7,376.96	-820.81	6,946.28	6,799.54	146.74	47.338		
7,700.00	7,458.61	5,625.00	5,625.00	40.06	112.76	18.30	-7,376.96	-820.81	6,942.49	6,795.83	146.66	47.336		
7,750.00	7,503.69	5,625.00	5,625.00	40.32	112.76	18.54	-7,376.96	-820.81	6,934.95	6,788.35	146.60	47.304		
7,800.00	7,546.72	5,625.00	5,625.00	40.60	112.76	18.91	-7,376.96	-820.81	6,923.69	6,777.14	146.55	47.244		
7,850.00	7,587.38	5,625.00	5,625.00	40.92	112.76	19.43	-7,376.96	-820.81	6,908.79	6,762.27	146.51	47.154		
7,900.00	7,625.34	5,625.00	5,625.00	41.25	112.76	20.10	-7,376.96	-820.81	6,890.33	6,743.84	146.49	47.037		
7,950.00	7,660.33	5,625.00	5,625.00	41.61	112.76	20.95	-7,376.96	-820.81	6,868.43	6,721.96	146.47	46.892		
8,000.00	7,692.07	5,625.00	5,625.00	42.00	112.76	22.02	-7,376.96	-820.81	6,843.22	6,696.75	146.47	46.720		
8,050.00	7,720.33	5,625.00	5,625.00	42.40	112.76	23.35	-7,376.96	-820.81	6,814.86	6,668.38	146.49	46.522		
8,100.00	7,744.89	5,625.00	5,625.00	42.83	112.76	25.00	-7,376.96	-820.81	6,783.53	6,637.01	146.51	46.300		
8,150.00	7,765.56	5,625.00	5,625.00	43.27	112.76	27.05	-7,376.96	-820.81	6,749.42	6,602.86	146.55	46.054		
8,200.00	7,782.18	5,625.00	5,625.00	43.74	112.76	29.61	-7,376.96	-820.81	6,712.75	6,566.14	146.61	45.785		
8,250.00	7,794.63	5,625.00	5,625.00	44.22	112.76	32.84	-7,376.96	-820.81	6,673.77	6,527.08	146.69	45.496		
8,300.00	7,802.82	5,625.00	5,625.00	44.71	112.76	36.95	-7,376.96	-820.81	6,632.73	6,485.94	146.78	45.187		
8,350.00	7,806.68	5,625.00	5,625.00	45.21	112.76	42.24	-7,376.96	-820.81	6,589.90	6,443.01	146.90	44.861		
8,369.28	7,807.00	5,625.00	5,625.00	45.40	112.76	44.67	-7,376.96	-820.81	6,572.98	6,426.03	146.95	44.730		
8,400.00	7,807.00	5,625.00	5,625.00	45.72	112.76	44.67	-7,376.96	-820.81	6,545.86	6,398.83	147.03	44.521		
8,500.00	7,807.00	5,625.00	5,625.00	46.77	112.76	44.67	-7,376.96	-820.81	6,457.79	6,310.50	147.29	43.843		
8,600.00	7,807.00	5,625.00	5,625.00	47.86	112.76	44.67	-7,376.96	-820.81	6,370.09	6,222.52	147.57	43.167		
8,700.00	7,807.00	5,625.00	5,625.00	48.99	112.76	44.67	-7,376.96	-820.81	6,282.74	6,134.89	147.86	42.493		
8,800.00	7,806.99	5,625.00	5,625.00	50.16	112.76	44.67	-7,376.96	-820.81	6,195.78	6,047.63	148.15	41.821		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.99	5,625.00	5,625.00	51.37	112.76	44.67	-7,376.96	-820.81	6,109.22	5,960.77	148.46	41.151		
9,000.00	7,806.99	5,625.00	5,625.00	52.60	112.76	44.67	-7,376.96	-820.81	6,023.08	5,874.30	148.78	40.484		
9,100.00	7,806.99	5,625.00	5,625.00	53.87	112.76	44.67	-7,376.96	-820.81	5,937.37	5,788.27	149.11	39.819		
9,200.00	7,806.99	5,625.00	5,625.00	55.17	112.76	44.67	-7,376.96	-820.81	5,852.12	5,702.67	149.45	39.158		
9,300.00	7,806.99	5,625.00	5,625.00	56.49	112.76	44.67	-7,376.96	-820.81	5,767.34	5,617.53	149.80	38.500		
9,400.00	7,806.99	5,625.00	5,625.00	57.83	112.76	44.67	-7,376.96	-820.81	5,683.05	5,532.88	150.17	37.845		
9,500.00	7,806.99	5,625.00	5,625.00	59.20	112.76	44.67	-7,376.96	-820.81	5,599.28	5,448.74	150.54	37.194		
9,600.00	7,806.98	5,625.00	5,625.00	60.59	112.76	44.67	-7,376.96	-820.81	5,516.05	5,365.12	150.93	36.547		
9,700.00	7,806.98	5,625.00	5,625.00	62.00	112.76	44.67	-7,376.96	-820.81	5,433.39	5,282.05	151.33	35.903		
9,800.00	7,806.98	5,625.00	5,625.00	63.43	112.76	44.67	-7,376.96	-820.81	5,351.31	5,199.57	151.75	35.265		
9,900.00	7,806.98	5,625.00	5,625.00	64.87	112.76	44.67	-7,376.96	-820.81	5,269.86	5,117.69	152.17	34.631		
10,000.00	7,806.98	5,625.00	5,625.00	66.34	112.76	44.67	-7,376.96	-820.81	5,189.06	5,036.45	152.61	34.002		
10,100.00	7,806.98	5,625.00	5,625.00	67.81	112.76	44.67	-7,376.96	-820.81	5,108.93	4,955.87	153.06	33.378		
10,200.00	7,806.98	5,625.00	5,625.00	69.30	112.76	44.67	-7,376.96	-820.81	5,029.52	4,876.00	153.53	32.760		
10,300.00	7,806.98	5,625.00	5,625.00	70.81	112.76	44.67	-7,376.96	-820.81	4,950.86	4,796.85	154.00	32.148		
10,400.00	7,806.97	5,625.00	5,625.00	72.32	112.76	44.67	-7,376.96	-820.81	4,872.97	4,718.48	154.49	31.542		
10,500.00	7,806.97	5,625.00	5,625.00	73.85	112.76	44.67	-7,376.96	-820.81	4,795.91	4,640.91	154.99	30.943		
10,600.00	7,806.97	5,625.00	5,625.00	75.39	112.76	44.67	-7,376.96	-820.81	4,719.71	4,564.20	155.51	30.350		
10,700.00	7,806.97	5,625.00	5,625.00	76.94	112.76	44.67	-7,376.96	-820.81	4,644.41	4,488.37	156.03	29.765		
10,800.00	7,806.97	5,625.00	5,625.00	78.49	112.76	44.67	-7,376.96	-820.81	4,570.05	4,413.48	156.57	29.188		
10,900.00	7,806.97	5,625.00	5,625.00	80.06	112.76	44.67	-7,376.96	-820.81	4,496.70	4,339.57	157.12	28.619		
11,000.00	7,806.97	5,625.00	5,625.00	81.64	112.76	44.67	-7,376.96	-820.81	4,424.38	4,266.70	157.68	28.059		
11,100.00	7,806.97	5,625.00	5,625.00	83.22	112.76	44.67	-7,376.96	-820.81	4,353.16	4,194.91	158.25	27.508		
11,200.00	7,806.96	5,625.00	5,625.00	84.81	112.76	44.67	-7,376.96	-820.81	4,283.10	4,124.26	158.83	26.966		
11,300.00	7,806.96	5,625.00	5,625.00	86.41	112.76	44.67	-7,376.96	-820.81	4,214.24	4,054.81	159.42	26.434		
11,400.00	7,806.96	5,625.00	5,625.00	88.01	112.76	44.67	-7,376.96	-820.81	4,146.65	3,986.62	160.02	25.913		
11,500.00	7,806.96	5,625.00	5,625.00	89.63	112.76	44.67	-7,376.96	-820.81	4,080.39	3,919.76	160.63	25.403		
11,600.00	7,806.96	5,625.00	5,625.00	91.24	112.76	44.67	-7,376.96	-820.81	4,015.52	3,854.28	161.24	24.903		
11,700.00	7,806.96	5,625.00	5,625.00	92.87	112.76	44.67	-7,376.96	-820.81	3,952.13	3,790.26	161.86	24.416		
11,800.00	7,806.96	5,625.00	5,625.00	94.49	112.76	44.67	-7,376.96	-820.81	3,890.27	3,727.78	162.49	23.941		
11,900.00	7,806.95	5,625.00	5,625.00	96.13	112.76	44.67	-7,376.96	-820.81	3,830.02	3,666.90	163.12	23.479		
12,000.00	7,806.95	5,625.00	5,625.00	97.77	112.76	44.67	-7,376.96	-820.81	3,771.47	3,607.71	163.76	23.031		
12,100.00	7,806.95	5,625.00	5,625.00	99.41	112.76	44.67	-7,376.96	-820.81	3,714.68	3,550.29	164.39	22.596		
12,200.00	7,806.95	5,625.00	5,625.00	101.06	112.76	44.67	-7,376.96	-820.81	3,659.74	3,494.71	165.03	22.176		
12,300.00	7,806.95	5,625.00	5,625.00	102.71	112.76	44.67	-7,376.96	-820.81	3,606.75	3,441.07	165.67	21.770		
12,400.00	7,806.95	5,625.00	5,625.00	104.37	112.76	44.67	-7,376.96	-820.81	3,555.77	3,389.46	166.31	21.380		
12,500.00	7,806.95	5,625.00	5,625.00	106.02	112.76	44.67	-7,376.96	-820.81	3,506.90	3,339.95	166.95	21.006		
12,600.00	7,806.95	5,625.00	5,625.00	107.69	112.76	44.67	-7,376.96	-820.81	3,460.24	3,292.65	167.59	20.647		
12,700.00	7,806.94	5,625.00	5,625.00	109.35	112.76	44.67	-7,376.96	-820.81	3,415.87	3,247.65	168.22	20.306		
12,800.00	7,806.94	5,625.00	5,625.00	111.02	112.76	44.67	-7,376.96	-820.81	3,373.87	3,205.02	168.85	19.981		
12,900.00	7,806.94	5,625.00	5,625.00	112.70	112.76	44.67	-7,376.96	-820.81	3,334.35	3,164.88	169.48	19.674		
13,000.00	7,806.94	5,625.00	5,625.00	114.37	112.76	44.67	-7,376.96	-820.81	3,297.39	3,127.29	170.10	19.385		
13,100.00	7,806.94	5,625.00	5,625.00	116.05	112.76	44.67	-7,376.96	-820.81	3,263.08	3,092.36	170.72	19.114		
13,200.00	7,806.94	5,625.00	5,625.00	117.74	112.76	44.67	-7,376.96	-820.81	3,231.49	3,060.16	171.33	18.861		
13,300.00	7,806.94	5,625.00	5,625.00	119.42	112.76	44.67	-7,376.96	-820.81	3,202.72	3,030.78	171.95	18.626		
13,400.00	7,806.94	5,625.00	5,625.00	121.11	112.76	44.67	-7,376.96	-820.81	3,176.84	3,004.28	172.56	18.410		
13,500.00	7,806.93	5,625.00	5,625.00	122.80	112.76	44.67	-7,376.96	-820.81	3,153.92	2,980.75	173.16	18.214		
13,600.00	7,806.93	5,625.00	5,625.00	124.49	112.76	44.67	-7,376.96	-820.81	3,134.02	2,960.25	173.77	18.036		
13,700.00	7,806.93	5,625.00	5,625.00	126.18	112.76	44.67	-7,376.96	-820.81	3,117.20	2,942.83	174.37	17.877		
13,800.00	7,806.93	5,625.00	5,625.00	127.88	112.76	44.67	-7,376.96	-820.81	3,103.52	2,928.55	174.97	17.737		
13,900.00	7,806.93	5,625.00	5,625.00	129.58	112.76	44.67	-7,376.96	-820.81	3,093.01	2,917.44	175.57	17.617		
14,000.00	7,806.93	5,625.00	5,625.00	131.28	112.76	44.67	-7,376.96	-820.81	3,085.71	2,909.54	176.17	17.516		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.93	5,625.00	5,625.00	132.98	112.76	44.67	-7,376.96	-820.81	3,081.64	2,904.87	176.76	17.434		
14,175.59	7,806.93	5,625.00	5,625.00	134.27	112.76	44.67	-7,376.96	-820.81	3,080.71	2,903.50	177.21	17.385 CC		
14,200.00	7,806.93	5,625.00	5,625.00	134.68	112.76	44.67	-7,376.96	-820.81	3,080.81	2,903.45	177.35	17.371 ES		
14,300.00	7,806.92	5,625.00	5,625.00	136.39	112.76	44.67	-7,376.96	-820.81	3,083.22	2,905.28	177.94	17.328		
14,400.00	7,806.92	5,625.00	5,625.00	138.10	112.76	44.67	-7,376.96	-820.81	3,088.87	2,910.36	178.51	17.304		
14,500.00	7,806.92	5,625.00	5,625.00	139.81	112.76	44.67	-7,376.96	-820.81	3,097.74	2,918.67	179.07	17.299 SF		
14,600.00	7,806.92	5,625.00	5,625.00	141.52	112.76	44.67	-7,376.96	-820.81	3,109.81	2,930.18	179.62	17.313		
14,700.00	7,806.92	5,625.00	5,625.00	143.23	112.76	44.67	-7,376.96	-820.81	3,125.02	2,944.87	180.15	17.346		
14,800.00	7,806.92	5,625.00	5,625.00	144.94	112.76	44.67	-7,376.96	-820.81	3,143.35	2,962.69	180.66	17.399		
14,900.00	7,806.92	5,625.00	5,625.00	146.66	112.76	44.67	-7,376.96	-820.81	3,164.73	2,983.58	181.15	17.470		
15,000.00	7,806.92	5,625.00	5,625.00	148.37	112.76	44.67	-7,376.96	-820.81	3,189.11	3,007.50	181.61	17.560		
15,100.00	7,806.91	5,625.00	5,625.00	150.09	112.76	44.67	-7,376.96	-820.81	3,216.41	3,034.37	182.04	17.669		
15,200.00	7,806.91	5,625.00	5,625.00	151.81	112.76	44.67	-7,376.96	-820.81	3,246.57	3,064.13	182.44	17.795		
15,300.00	7,806.91	5,625.00	5,625.00	153.53	112.76	44.67	-7,376.96	-820.81	3,279.49	3,096.69	182.80	17.940		
15,400.00	7,806.91	5,625.00	5,625.00	155.25	112.76	44.67	-7,376.96	-820.81	3,315.11	3,131.98	183.13	18.102		
15,500.00	7,806.91	5,625.00	5,625.00	156.97	112.76	44.67	-7,376.96	-820.81	3,353.33	3,169.91	183.42	18.282		
15,600.00	7,806.91	5,625.00	5,625.00	158.70	112.76	44.67	-7,376.96	-820.81	3,394.07	3,210.39	183.68	18.479		
15,700.00	7,806.91	5,625.00	5,625.00	160.42	112.76	44.67	-7,376.96	-820.81	3,437.24	3,253.34	183.89	18.692		
15,800.00	7,806.91	5,625.00	5,625.00	162.15	112.76	44.67	-7,376.96	-820.81	3,482.74	3,298.67	184.07	18.921		
15,900.00	7,806.90	5,625.00	5,625.00	163.88	112.76	44.67	-7,376.96	-820.81	3,530.49	3,346.28	184.21	19.165		
16,000.00	7,806.90	5,625.00	5,625.00	165.60	112.76	44.67	-7,376.96	-820.81	3,580.40	3,396.08	184.32	19.425		
16,100.00	7,806.90	5,625.00	5,625.00	167.33	112.76	44.67	-7,376.96	-820.81	3,632.37	3,447.98	184.39	19.700		
16,200.00	7,806.90	5,625.00	5,625.00	169.06	112.76	44.67	-7,376.96	-820.81	3,686.33	3,501.90	184.43	19.988		
16,300.00	7,806.90	5,625.00	5,625.00	170.79	112.76	44.67	-7,376.96	-820.81	3,742.18	3,557.75	184.43	20.290		
16,400.00	7,806.90	5,625.00	5,625.00	172.52	112.76	44.67	-7,376.96	-820.81	3,799.84	3,615.43	184.41	20.606		
16,500.00	7,806.90	5,625.00	5,625.00	174.26	112.76	44.67	-7,376.96	-820.81	3,859.23	3,674.87	184.36	20.934		
16,600.00	7,806.89	5,625.00	5,625.00	175.99	112.76	44.67	-7,376.96	-820.81	3,920.27	3,735.99	184.28	21.274		
16,700.00	7,806.89	5,625.00	5,625.00	177.72	112.76	44.67	-7,376.96	-820.81	3,982.89	3,798.71	184.18	21.625		
16,800.00	7,806.89	5,625.00	5,625.00	179.46	112.76	44.67	-7,376.96	-820.81	4,047.01	3,862.96	184.06	21.988		
16,900.00	7,806.89	5,625.00	5,625.00	181.19	112.76	44.67	-7,376.96	-820.81	4,112.56	3,928.65	183.91	22.361		
17,000.00	7,806.89	5,625.00	5,625.00	182.93	112.76	44.67	-7,376.96	-820.81	4,179.48	3,995.73	183.75	22.745		
17,100.00	7,806.89	5,625.00	5,625.00	184.67	112.76	44.67	-7,376.96	-820.81	4,247.70	4,064.12	183.58	23.139		
17,200.00	7,806.89	5,625.00	5,625.00	186.40	112.76	44.67	-7,376.96	-820.81	4,317.15	4,133.77	183.38	23.542		
17,300.00	7,806.89	5,625.00	5,625.00	188.14	112.76	44.67	-7,376.96	-820.81	4,387.79	4,204.61	183.18	23.953		
17,400.00	7,806.88	5,625.00	5,625.00	189.88	112.76	44.67	-7,376.96	-820.81	4,459.55	4,276.58	182.97	24.374		
17,500.00	7,806.88	5,625.00	5,625.00	191.62	112.76	44.67	-7,376.96	-820.81	4,532.38	4,349.64	182.74	24.802		
17,600.00	7,806.88	5,625.00	5,625.00	193.36	112.76	44.67	-7,376.96	-820.81	4,606.23	4,423.72	182.51	25.238		
17,700.00	7,806.88	5,625.00	5,625.00	195.10	112.76	44.67	-7,376.96	-820.81	4,681.05	4,498.78	182.27	25.682		
17,800.00	7,806.88	5,625.00	5,625.00	196.84	112.76	44.67	-7,376.96	-820.81	4,756.80	4,574.77	182.02	26.133		
17,900.00	7,806.88	5,625.00	5,625.00	198.58	112.76	44.67	-7,376.96	-820.81	4,833.43	4,651.65	181.77	26.590		
18,000.00	7,806.88	5,625.00	5,625.00	200.33	112.76	44.67	-7,376.96	-820.81	4,910.89	4,729.37	181.52	27.054		
18,027.46	7,807.00	5,625.00	5,625.00	200.80	112.76	44.66	-7,376.96	-820.81	4,932.25	4,750.81	181.44	27.184		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	165.41	-8,175.01	2,127.97	8,447.59					
100.00	100.00	47.00	47.00	0.13	0.56	165.41	-8,175.01	2,127.97	8,447.43	8,446.73	0.70	N/A		
200.00	200.00	147.00	147.00	0.49	2.27	165.41	-8,175.01	2,127.97	8,447.43	8,444.66	2.77	3,052.636		
300.00	300.00	247.00	247.00	0.85	4.46	165.41	-8,175.01	2,127.97	8,447.43	8,442.11	5.32	1,589.041		
400.00	400.00	347.00	347.00	1.21	6.53	165.41	-8,175.01	2,127.97	8,447.43	8,439.69	7.74	1,091.982		
500.00	500.00	447.00	447.00	1.57	8.56	165.41	-8,175.01	2,127.97	8,447.43	8,437.30	10.13	833.873		
600.00	600.00	547.00	547.00	1.93	10.59	165.41	-8,175.01	2,127.97	8,447.43	8,434.91	12.51	674.988		
700.00	700.00	647.00	647.00	2.29	12.61	165.41	-8,175.01	2,127.97	8,447.43	8,432.53	14.89	567.149		
800.00	800.00	747.00	747.00	2.64	14.63	165.41	-8,175.01	2,127.97	8,447.43	8,430.15	17.27	489.102		
900.00	900.00	847.00	847.00	3.00	16.64	165.41	-8,175.01	2,127.97	8,447.43	8,427.78	19.65	429.977		
1,000.00	1,000.00	947.00	947.00	3.36	18.66	165.41	-8,175.01	2,127.97	8,447.43	8,425.41	22.02	383.625		
1,100.00	1,099.98	1,046.98	1,046.98	3.71	20.67	38.43	-8,175.01	2,127.97	8,446.06	8,421.68	24.38	346.450		
1,200.00	1,199.84	1,146.84	1,146.84	4.04	22.68	38.50	-8,175.01	2,127.97	8,441.96	8,415.23	26.73	315.869		
1,300.00	1,299.45	1,246.45	1,246.45	4.39	24.69	38.62	-8,175.01	2,127.97	8,435.13	8,406.06	29.07	290.123		
1,400.00	1,398.70	1,345.70	1,345.70	4.74	26.69	38.80	-8,175.01	2,127.97	8,425.60	8,394.17	31.42	268.147		
1,500.00	1,497.47	1,444.47	1,444.47	5.12	28.68	39.02	-8,175.01	2,127.97	8,413.36	8,379.60	33.77	249.159		
1,600.00	1,595.62	1,542.62	1,542.62	5.51	30.65	39.29	-8,175.01	2,127.97	8,398.46	8,362.35	36.11	232.578		
1,700.00	1,693.06	1,640.06	1,640.06	5.94	32.61	39.61	-8,175.01	2,127.97	8,380.91	8,342.46	38.45	217.963		
1,800.00	1,789.64	1,736.64	1,736.64	6.39	34.55	39.99	-8,175.01	2,127.97	8,360.74	8,319.95	40.79	204.970		
1,863.26	1,850.25	1,802.75	1,797.25	6.70	35.88	40.25	-8,175.01	2,127.97	8,346.66	8,304.27	42.38	196.947		
1,900.00	1,885.34	1,832.34	1,832.34	6.89	36.48	40.30	-8,175.01	2,127.97	8,338.18	8,295.05	43.13	193.332		
2,000.00	1,980.83	1,927.83	1,927.83	7.41	38.40	40.43	-8,175.01	2,127.97	8,315.13	8,269.66	45.47	182.861		
2,100.00	2,076.33	2,023.33	2,023.33	7.95	40.32	40.56	-8,175.01	2,127.97	8,292.13	8,244.31	47.83	173.377		
2,200.00	2,171.82	2,118.82	2,118.82	8.50	42.24	40.69	-8,175.01	2,127.97	8,269.17	8,218.98	50.19	164.753		
2,300.00	2,267.32	2,214.32	2,214.32	9.07	44.16	40.82	-8,175.01	2,127.97	8,246.26	8,193.69	52.56	156.882		
2,400.00	2,362.81	2,309.81	2,309.81	9.64	46.09	40.96	-8,175.01	2,127.97	8,223.38	8,168.44	54.94	149.671		
2,500.00	2,458.30	2,405.30	2,405.30	10.22	48.01	41.09	-8,175.01	2,127.97	8,200.56	8,143.23	57.33	143.045		
2,600.00	2,553.80	2,500.80	2,500.80	10.81	49.93	41.22	-8,175.01	2,127.97	8,177.77	8,118.05	59.72	136.936		
2,700.00	2,649.29	2,603.71	2,596.29	11.41	52.00	41.36	-8,175.01	2,127.97	8,155.03	8,092.76	62.27	130.972		
2,800.00	2,744.79	2,708.21	2,691.79	12.01	54.10	41.49	-8,175.01	2,127.97	8,132.33	8,067.49	64.85	125.407		
2,900.00	2,840.28	2,787.28	2,787.28	12.61	55.69	41.63	-8,175.01	2,127.97	8,109.68	8,042.76	66.92	121.182		
3,000.00	2,935.77	2,882.77	2,882.77	13.22	57.61	41.77	-8,175.01	2,127.97	8,087.08	8,017.75	69.33	116.646		
3,100.00	3,031.27	2,978.27	2,978.27	13.83	59.53	41.90	-8,175.01	2,127.97	8,064.52	7,992.77	71.74	112.409		
3,200.00	3,126.76	3,073.76	3,073.76	14.44	61.45	42.04	-8,175.01	2,127.97	8,042.00	7,967.85	74.16	108.445		
3,300.00	3,222.26	3,169.26	3,169.26	15.06	63.37	42.18	-8,175.01	2,127.97	8,019.54	7,942.96	76.58	104.727		
3,400.00	3,317.75	3,264.75	3,264.75	15.68	65.29	42.32	-8,175.01	2,127.97	7,997.12	7,918.12	79.00	101.233		
3,500.00	3,413.25	3,360.25	3,360.25	16.30	67.21	42.46	-8,175.01	2,127.97	7,974.74	7,893.32	81.42	97.945		
3,600.00	3,508.74	3,455.74	3,455.74	16.92	69.13	42.60	-8,175.01	2,127.97	7,952.42	7,868.57	83.85	94.844		
3,700.00	3,604.23	3,551.23	3,551.23	17.54	71.06	42.75	-8,175.01	2,127.97	7,930.14	7,843.87	86.28	91.916		
3,800.00	3,699.73	3,646.73	3,646.73	18.17	72.98	42.89	-8,175.01	2,127.97	7,907.92	7,819.21	88.71	89.146		
3,900.00	3,795.22	3,742.22	3,742.22	18.79	74.90	43.03	-8,175.01	2,127.97	7,885.74	7,794.60	91.14	86.523		
4,000.00	3,890.72	3,837.72	3,837.72	19.42	76.82	43.18	-8,175.01	2,127.97	7,863.61	7,770.03	93.58	84.034		
4,100.00	3,986.21	3,933.21	3,933.21	20.05	78.74	43.32	-8,175.01	2,127.97	7,841.53	7,745.51	96.01	81.671		
4,200.00	4,081.70	4,028.70	4,028.70	20.67	80.66	43.47	-8,175.01	2,127.97	7,819.50	7,721.05	98.45	79.423		
4,300.00	4,177.20	4,124.20	4,124.20	21.30	82.58	43.61	-8,175.01	2,127.97	7,797.52	7,696.63	100.90	77.283		
4,400.00	4,272.69	4,219.69	4,219.69	21.93	84.50	43.76	-8,175.01	2,127.97	7,775.59	7,672.25	103.34	75.244		
4,500.00	4,368.19	4,315.19	4,315.19	22.56	86.42	43.91	-8,175.01	2,127.97	7,753.72	7,647.93	105.78	73.297		
4,600.00	4,463.68	4,410.68	4,410.68	23.19	88.34	44.06	-8,175.01	2,127.97	7,731.89	7,623.66	108.23	71.438		
4,700.00	4,559.17	4,506.17	4,506.17	23.83	90.26	44.21	-8,175.01	2,127.97	7,710.12	7,599.44	110.68	69.661		
4,800.00	4,654.67	4,601.67	4,601.67	24.46	92.18	44.36	-8,175.01	2,127.97	7,688.41	7,575.27	113.13	67.959		
4,900.00	4,750.16	4,702.84	4,697.16	25.09	94.22	44.51	-8,175.01	2,127.97	7,666.74	7,551.04	115.70	66.264		
5,000.00	4,845.66	4,807.34	4,792.66	25.72	96.32	44.67	-8,175.01	2,127.97	7,645.13	7,526.79	118.34	64.605		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference				Offset			Semi Major Axis		Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,888.15	4,888.15	26.36	97.94	44.82	-8,175.01	2,127.97	7,623.57	7,503.08	120.50	63.268		
5,200.00	5,036.65	4,983.65	4,983.65	26.99	99.86	44.97	-8,175.01	2,127.97	7,602.07	7,479.12	122.96	61.828		
5,300.00	5,132.14	5,079.14	5,079.14	27.63	101.78	45.13	-8,175.01	2,127.97	7,580.62	7,455.21	125.42	60.444		
5,400.00	5,227.63	5,174.63	5,174.63	28.26	103.70	45.28	-8,175.01	2,127.97	7,559.23	7,431.36	127.88	59.113		
5,500.00	5,323.13	5,270.13	5,270.13	28.90	105.62	45.44	-8,175.01	2,127.97	7,537.90	7,407.56	130.34	57.832		
5,600.00	5,418.62	5,365.62	5,365.62	29.53	107.54	45.60	-8,175.01	2,127.97	7,516.62	7,383.82	132.81	56.599		
5,700.00	5,514.12	5,461.12	5,461.12	30.17	109.46	45.76	-8,175.01	2,127.97	7,495.40	7,360.13	135.27	55.410		
5,800.00	5,609.61	5,556.61	5,556.61	30.80	111.39	45.92	-8,175.01	2,127.97	7,474.24	7,336.50	137.74	54.263		
5,900.00	5,705.10	5,652.10	5,652.10	31.44	113.31	46.08	-8,175.01	2,127.97	7,453.13	7,312.92	140.21	53.156		
6,000.00	5,800.60	5,747.60	5,747.60	32.08	115.23	46.24	-8,175.01	2,127.97	7,432.08	7,289.40	142.68	52.088		
6,100.00	5,896.09	5,843.09	5,843.09	32.71	117.15	46.40	-8,175.01	2,127.97	7,411.10	7,265.94	145.16	51.056		
6,200.00	5,991.59	5,938.59	5,938.59	33.35	119.07	46.56	-8,175.01	2,127.97	7,390.17	7,242.54	147.63	50.058		
6,300.00	6,087.08	6,034.08	6,034.08	33.99	120.99	46.72	-8,175.01	2,127.97	7,369.30	7,219.19	150.11	49.093		
6,400.00	6,182.57	6,129.57	6,129.57	34.62	122.91	46.89	-8,175.01	2,127.97	7,348.49	7,195.90	152.59	48.159		
6,499.99	6,278.06	6,225.06	6,225.06	35.26	124.83	47.05	-8,175.01	2,127.97	7,327.75	7,172.68	155.07	47.255		
6,505.95	6,283.75	6,230.75	6,230.75	35.30	124.94	47.06	-8,175.01	2,127.97	7,326.52	7,171.30	155.22	47.202		
6,600.00	6,374.00	6,321.00	6,321.00	35.88	126.76	46.94	-8,175.01	2,127.97	7,308.09	7,150.55	157.54	46.387		
6,700.00	6,470.87	6,417.87	6,417.87	36.44	128.71	46.82	-8,175.01	2,127.97	7,290.82	7,130.82	160.00	45.567		
6,800.00	6,568.53	6,515.53	6,515.53	36.96	130.67	46.72	-8,175.01	2,127.97	7,275.95	7,113.51	162.44	44.791		
6,900.00	6,666.89	6,613.89	6,613.89	37.43	132.65	46.64	-8,175.01	2,127.97	7,263.48	7,098.62	164.86	44.058		
7,000.00	6,765.82	6,712.82	6,712.82	37.85	134.64	46.58	-8,175.01	2,127.97	7,253.41	7,086.15	167.26	43.367		
7,100.00	6,865.19	6,812.19	6,812.19	38.22	136.64	46.53	-8,175.01	2,127.97	7,245.73	7,076.11	169.63	42.716		
7,200.00	6,964.89	6,911.89	6,911.89	38.55	138.64	46.50	-8,175.01	2,127.97	7,240.47	7,068.50	171.97	42.104		
7,300.00	7,064.80	7,011.80	7,011.80	38.83	140.65	46.48	-8,175.01	2,127.97	7,237.60	7,063.33	174.28	41.530		
7,369.20	7,134.00	7,081.00	7,081.00	39.00	142.04	173.48	-8,175.01	2,127.97	7,237.03	7,061.17	175.85	41.154		
7,400.00	7,164.80	7,111.80	7,111.80	39.06	142.66	173.48	-8,175.01	2,127.97	7,237.03	7,060.48	176.55	40.992		
7,469.20	7,234.00	7,181.00	7,181.00	39.22	144.05	173.48	-8,175.01	2,127.97	7,237.03	7,058.91	178.11	40.631		
7,500.00	7,264.78	7,211.78	7,211.78	39.29	144.67	-6.18	-8,175.01	2,127.97	7,236.20	7,057.39	178.81	40.468		
7,550.00	7,314.53	7,261.53	7,261.53	39.44	145.67	-6.24	-8,175.01	2,127.97	7,231.37	7,051.43	179.94	40.187		
7,600.00	7,363.66	7,310.66	7,310.66	39.62	146.66	-6.35	-8,175.01	2,127.97	7,222.25	7,041.18	181.06	39.888		
7,650.00	7,411.81	7,358.81	7,358.81	39.82	147.63	-6.52	-8,175.01	2,127.97	7,208.90	7,026.74	182.17	39.573		
7,700.00	7,458.61	7,405.61	7,405.61	40.06	148.57	-6.75	-8,175.01	2,127.97	7,191.44	7,008.20	183.24	39.247		
7,750.00	7,503.69	7,450.69	7,450.69	40.32	149.48	-7.05	-8,175.01	2,127.97	7,169.98	6,985.72	184.27	38.911		
7,800.00	7,546.72	7,506.28	7,493.72	40.60	150.59	-7.45	-8,175.01	2,127.97	7,144.71	6,959.20	185.50	38.515		
7,850.00	7,587.38	7,534.38	7,534.38	40.92	151.16	-7.96	-8,175.01	2,127.97	7,115.80	6,929.62	186.18	38.220		
7,900.00	7,625.34	7,572.34	7,572.34	41.25	151.92	-8.60	-8,175.01	2,127.97	7,083.48	6,896.45	187.04	37.872		
7,950.00	7,660.33	7,607.33	7,607.33	41.61	152.63	-9.44	-8,175.01	2,127.97	7,048.00	6,860.18	187.83	37.524		
8,000.00	7,692.07	7,639.07	7,639.07	42.00	153.26	-10.53	-8,175.01	2,127.97	7,009.63	6,821.09	188.54	37.179		
8,050.00	7,720.33	7,667.33	7,667.33	42.40	153.83	-12.00	-8,175.01	2,127.97	6,968.66	6,779.50	189.16	36.840		
8,100.00	7,744.89	7,708.11	7,691.89	42.83	154.65	-14.02	-8,175.01	2,127.97	6,925.39	6,735.38	190.02	36.447		
8,150.00	7,765.56	7,712.56	7,712.56	43.27	154.74	-16.95	-8,175.01	2,127.97	6,880.17	6,690.05	190.12	36.188		
8,200.00	7,782.18	7,729.18	7,729.18	43.74	155.08	-21.49	-8,175.01	2,127.97	6,833.34	6,642.88	190.46	35.878		
8,250.00	7,794.63	7,741.63	7,741.63	44.22	155.33	-29.19	-8,175.01	2,127.97	6,785.25	6,594.55	190.70	35.581		
8,300.00	7,802.82	7,749.82	7,749.82	44.71	155.49	-43.96	-8,175.01	2,127.97	6,736.27	6,545.44	190.83	35.300		
8,350.00	7,806.68	7,753.68	7,753.68	45.21	155.57	-73.99	-8,175.01	2,127.97	6,686.77	6,495.90	190.86	35.034		
8,369.28	7,807.00	7,754.00	7,754.00	45.40	155.58	-90.01	-8,175.01	2,127.97	6,667.62	6,476.78	190.85	34.937		
8,400.00	7,807.00	7,754.00	7,754.00	45.72	155.58	-90.01	-8,175.01	2,127.97	6,637.11	6,446.30	190.81	34.783		
8,500.00	7,807.00	7,754.00	7,754.00	46.77	155.58	-90.01	-8,175.01	2,127.97	6,537.81	6,347.12	190.70	34.284		
8,600.00	7,807.00	7,754.00	7,754.00	47.86	155.58	-90.01	-8,175.01	2,127.97	6,438.54	6,247.96	190.58	33.785		
8,700.00	7,807.00	7,754.00	7,754.00	48.99	155.58	-90.01	-8,175.01	2,127.97	6,339.28	6,148.83	190.45	33.285		
8,800.00	7,806.99	7,753.99	7,753.99	50.16	155.58	-90.01	-8,175.01	2,127.97	6,240.05	6,049.72	190.33	32.785		
8,900.00	7,806.99	7,753.99	7,753.99	51.37	155.57	-90.01	-8,175.01	2,127.97	6,140.84	5,950.63	190.21	32.285		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,753.99	7,753.99	52.60	155.57	-90.01	-8,175.01	2,127.97	6,041.66	5,851.58	190.08	31.785		
9,100.00	7,806.99	7,753.99	7,753.99	53.87	155.57	-90.01	-8,175.01	2,127.97	5,942.51	5,752.55	189.95	31.284		
9,200.00	7,806.99	7,753.99	7,753.99	55.17	155.57	-90.01	-8,175.01	2,127.97	5,843.38	5,653.56	189.82	30.783		
9,300.00	7,806.99	7,753.99	7,753.99	56.49	155.57	-90.01	-8,175.01	2,127.97	5,744.29	5,554.60	189.69	30.282		
9,400.00	7,806.99	7,753.99	7,753.99	57.83	155.57	-90.01	-8,175.01	2,127.97	5,645.23	5,455.67	189.56	29.781		
9,500.00	7,806.99	7,753.99	7,753.99	59.20	155.57	-90.01	-8,175.01	2,127.97	5,546.20	5,356.77	189.43	29.279		
9,600.00	7,806.98	7,753.98	7,753.98	60.59	155.57	-90.01	-8,175.01	2,127.97	5,447.21	5,257.92	189.29	28.777		
9,700.00	7,806.98	7,753.98	7,753.98	62.00	155.57	-90.00	-8,175.01	2,127.97	5,348.25	5,159.10	189.15	28.275		
9,800.00	7,806.98	7,753.98	7,753.98	63.43	155.57	-90.00	-8,175.01	2,127.97	5,249.34	5,060.32	189.02	27.772		
9,900.00	7,806.98	7,753.98	7,753.98	64.87	155.57	-90.00	-8,175.01	2,127.97	5,150.46	4,961.58	188.88	27.269		
10,000.00	7,806.98	7,753.98	7,753.98	66.34	155.57	-90.00	-8,175.01	2,127.97	5,051.63	4,862.89	188.74	26.765		
10,100.00	7,806.98	7,753.98	7,753.98	67.81	155.57	-90.00	-8,175.01	2,127.97	4,952.85	4,764.25	188.60	26.261		
10,200.00	7,806.98	7,753.98	7,753.98	69.30	155.57	-90.00	-8,175.01	2,127.97	4,854.12	4,665.66	188.46	25.757		
10,300.00	7,806.98	7,753.98	7,753.98	70.81	155.57	-90.00	-8,175.01	2,127.97	4,755.44	4,567.12	188.32	25.252		
10,400.00	7,806.97	7,753.97	7,753.97	72.32	155.57	-90.00	-8,175.01	2,127.97	4,656.81	4,468.63	188.18	24.746		
10,500.00	7,806.97	7,753.97	7,753.97	73.85	155.57	-90.00	-8,175.01	2,127.97	4,558.25	4,370.20	188.05	24.240		
10,600.00	7,806.97	7,753.97	7,753.97	75.39	155.57	-90.00	-8,175.01	2,127.97	4,459.75	4,271.84	187.91	23.733		
10,700.00	7,806.97	7,753.97	7,753.97	76.94	155.57	-90.00	-8,175.01	2,127.97	4,361.32	4,173.54	187.78	23.225		
10,800.00	7,806.97	7,753.97	7,753.97	78.49	155.57	-90.00	-8,175.01	2,127.97	4,262.96	4,075.31	187.65	22.717		
10,900.00	7,806.97	7,753.97	7,753.97	80.06	155.57	-90.00	-8,175.01	2,127.97	4,164.68	3,977.15	187.53	22.208		
11,000.00	7,806.97	7,753.97	7,753.97	81.64	155.57	-90.00	-8,175.01	2,127.97	4,066.49	3,879.07	187.42	21.697		
11,100.00	7,806.97	7,753.97	7,753.97	83.22	155.57	-90.00	-8,175.01	2,127.97	3,968.38	3,781.07	187.31	21.186		
11,200.00	7,806.96	7,753.96	7,753.96	84.81	155.57	-90.00	-8,175.01	2,127.97	3,870.37	3,683.15	187.22	20.673		
11,300.00	7,806.96	7,753.96	7,753.96	86.41	155.57	-90.00	-8,175.01	2,127.97	3,772.47	3,585.33	187.13	20.159		
11,400.00	7,806.96	7,753.96	7,753.96	88.01	155.57	-90.00	-8,175.01	2,127.97	3,674.67	3,487.61	187.06	19.644		
11,500.00	7,806.96	7,753.96	7,753.96	89.63	155.57	-90.00	-8,175.01	2,127.97	3,577.01	3,389.99	187.01	19.127		
11,600.00	7,806.96	7,753.96	7,753.96	91.24	155.57	-90.00	-8,175.01	2,127.97	3,479.47	3,292.48	186.99	18.608		
11,700.00	7,806.96	7,753.96	7,753.96	92.87	155.57	-90.00	-8,175.01	2,127.97	3,382.08	3,195.09	186.98	18.088		
11,800.00	7,806.96	7,753.96	7,753.96	94.49	155.57	-90.00	-8,175.01	2,127.97	3,284.84	3,097.83	187.01	17.565		
11,900.00	7,806.95	7,753.95	7,753.95	96.13	155.57	-90.00	-8,175.01	2,127.97	3,187.77	3,000.70	187.08	17.040		
12,000.00	7,806.95	7,753.95	7,753.95	97.77	155.57	-90.00	-8,175.01	2,127.97	3,090.89	2,903.71	187.19	16.512		
12,100.00	7,806.95	7,753.95	7,753.95	99.41	155.57	-90.00	-8,175.01	2,127.97	2,994.22	2,806.87	187.35	15.982		
12,200.00	7,806.95	7,753.95	7,753.95	101.06	155.57	-90.00	-8,175.01	2,127.97	2,897.77	2,710.21	187.57	15.449		
12,300.00	7,806.95	7,753.95	7,753.95	102.71	155.57	-90.00	-8,175.01	2,127.97	2,801.58	2,613.72	187.86	14.913		
12,400.00	7,806.95	7,753.95	7,753.95	104.37	155.57	-90.00	-8,175.01	2,127.97	2,705.65	2,517.42	188.23	14.374		
12,500.00	7,806.95	7,753.95	7,753.95	106.02	155.57	-90.00	-8,175.01	2,127.97	2,610.04	2,421.33	188.70	13.831		
12,600.00	7,806.95	7,753.95	7,753.95	107.69	155.57	-90.00	-8,175.01	2,127.97	2,514.76	2,325.48	189.29	13.286		
12,700.00	7,806.94	7,753.94	7,753.94	109.35	155.57	-90.00	-8,175.01	2,127.97	2,419.87	2,229.87	190.00	12.736		
12,800.00	7,806.94	7,753.94	7,753.94	111.02	155.57	-90.00	-8,175.01	2,127.97	2,325.40	2,134.54	190.86	12.184		
12,900.00	7,806.94	7,753.94	7,753.94	112.70	155.57	-90.00	-8,175.01	2,127.97	2,231.42	2,039.52	191.89	11.628		
13,000.00	7,806.94	7,753.94	7,753.94	114.37	155.57	-90.00	-8,175.01	2,127.97	2,137.98	1,944.85	193.13	11.070		
13,100.00	7,806.94	7,753.94	7,753.94	116.05	155.57	-90.00	-8,175.01	2,127.97	2,045.16	1,850.57	194.59	10.510		
13,200.00	7,806.94	7,753.94	7,753.94	117.74	155.57	-90.00	-8,175.01	2,127.97	1,953.05	1,756.74	196.31	9.949		
13,300.00	7,806.94	7,753.94	7,753.94	119.42	155.57	-90.00	-8,175.01	2,127.97	1,861.76	1,663.44	198.32	9.388		
13,400.00	7,806.94	7,753.94	7,753.94	121.11	155.57	-90.00	-8,175.01	2,127.97	1,771.41	1,570.73	200.67	8.827		
13,500.00	7,806.93	7,753.93	7,753.93	122.80	155.57	-90.00	-8,175.01	2,127.97	1,682.14	1,478.74	203.40	8.270		
13,600.00	7,806.93	7,753.93	7,753.93	124.49	155.57	-90.00	-8,175.01	2,127.97	1,594.16	1,387.60	206.56	7.718		
13,700.00	7,806.93	7,753.93	7,753.93	126.18	155.57	-90.00	-8,175.01	2,127.97	1,507.67	1,297.47	210.20	7.173		
13,800.00	7,806.93	7,753.93	7,753.93	127.88	155.57	-90.00	-8,175.01	2,127.97	1,422.96	1,208.57	214.38	6.637		
13,900.00	7,806.93	7,753.93	7,753.93	129.58	155.57	-90.00	-8,175.01	2,127.97	1,340.35	1,121.18	219.17	6.115		
14,000.00	7,806.93	7,753.93	7,753.93	131.28	155.57	-90.00	-8,175.01	2,127.97	1,260.27	1,035.64	224.63	5.610		
14,100.00	7,806.93	7,753.93	7,753.93	132.98	155.57	-90.00	-8,175.01	2,127.97	1,183.22	952.40	230.81	5.126		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.93	7,753.93	7,753.93	134.68	155.57	-90.00	-8,175.01	2,127.97	1,109.84	872.07	237.77	4.668		
14,300.00	7,806.92	7,753.92	7,753.92	136.39	155.57	-90.00	-8,175.01	2,127.97	1,040.90	795.40	245.50	4.240		
14,400.00	7,806.92	7,753.92	7,753.92	138.10	155.57	-90.00	-8,175.01	2,127.97	977.34	723.39	253.96	3.848		
14,500.00	7,806.92	7,753.92	7,753.92	139.81	155.57	-90.00	-8,175.01	2,127.97	920.29	657.28	263.01	3.499		
14,600.00	7,806.92	7,753.92	7,753.92	141.52	155.57	-90.00	-8,175.01	2,127.97	871.01	598.64	272.37	3.198		
14,700.00	7,806.92	7,753.92	7,753.92	143.23	155.57	-90.00	-8,175.01	2,127.97	830.90	549.28	281.62	2.950		
14,800.00	7,806.92	7,753.92	7,753.92	144.94	155.57	-90.00	-8,175.01	2,127.97	801.33	511.15	290.18	2.761		
14,900.00	7,806.92	7,753.92	7,753.92	146.66	155.57	-90.00	-8,175.01	2,127.97	783.49	486.10	297.39	2.635		
14,991.34	7,806.92	7,753.92	7,753.92	148.22	155.57	-90.00	-8,175.01	2,127.97	778.15	475.85	302.30	2.574 CC		
15,000.00	7,806.92	7,753.92	7,753.92	148.37	155.57	-90.00	-8,175.01	2,127.97	778.20	475.53	302.67	2.571 ES		
15,100.00	7,806.91	7,753.91	7,753.91	150.09	155.57	-90.00	-8,175.01	2,127.97	785.70	480.04	305.66	2.570 SF		
15,200.00	7,806.91	7,753.91	7,753.91	151.81	155.57	-90.00	-8,175.01	2,127.97	805.64	499.29	306.35	2.630		
15,300.00	7,806.91	7,753.91	7,753.91	153.53	155.57	-90.00	-8,175.01	2,127.97	837.13	532.10	305.03	2.744		
15,400.00	7,806.91	7,753.91	7,753.91	155.25	155.57	-90.00	-8,175.01	2,127.97	878.93	576.78	302.15	2.909		
15,500.00	7,806.91	7,753.91	7,753.91	156.97	155.57	-90.00	-8,175.01	2,127.97	929.65	631.42	298.23	3.117		
15,600.00	7,806.91	7,753.91	7,753.91	158.70	155.57	-90.00	-8,175.01	2,127.97	987.92	694.19	293.73	3.363		
15,700.00	7,806.91	7,753.91	7,753.91	160.42	155.57	-90.00	-8,175.01	2,127.97	1,052.48	763.50	288.98	3.642		
15,800.00	7,806.91	7,753.91	7,753.91	162.15	155.57	-90.00	-8,175.01	2,127.97	1,122.25	838.01	284.24	3.948		
15,900.00	7,806.90	7,753.90	7,753.90	163.88	155.57	-90.00	-8,175.01	2,127.97	1,196.32	916.66	279.66	4.278		
16,000.00	7,806.90	7,753.90	7,753.90	165.60	155.57	-90.00	-8,175.01	2,127.97	1,273.94	998.62	275.31	4.627		
16,100.00	7,806.90	7,753.90	7,753.90	167.33	155.57	-90.00	-8,175.01	2,127.97	1,354.49	1,083.24	271.25	4.993		
16,200.00	7,806.90	7,753.90	7,753.90	169.06	155.57	-90.00	-8,175.01	2,127.97	1,437.49	1,170.00	267.49	5.374		
16,300.00	7,806.90	7,753.90	7,753.90	170.79	155.57	-90.00	-8,175.01	2,127.97	1,522.53	1,258.51	264.03	5.767		
16,400.00	7,806.90	7,753.90	7,753.90	172.52	155.57	-90.00	-8,175.01	2,127.97	1,609.30	1,348.46	260.84	6.170		
16,500.00	7,806.90	7,753.90	7,753.90	174.26	155.57	-90.00	-8,175.01	2,127.97	1,697.52	1,439.60	257.92	6.582		
16,600.00	7,806.89	7,753.89	7,753.89	175.99	155.57	-90.00	-8,175.01	2,127.97	1,786.98	1,531.75	255.23	7.001		
16,700.00	7,806.89	7,753.89	7,753.89	177.72	155.57	-90.00	-8,175.01	2,127.97	1,877.51	1,624.74	252.77	7.428		
16,800.00	7,806.89	7,753.89	7,753.89	179.46	155.57	-90.00	-8,175.01	2,127.97	1,968.95	1,718.44	250.51	7.860		
16,900.00	7,806.89	7,753.89	7,753.89	181.19	155.57	-90.00	-8,175.01	2,127.97	2,061.19	1,812.76	248.43	8.297		
17,000.00	7,806.89	7,753.89	7,753.89	182.93	155.57	-90.00	-8,175.01	2,127.97	2,154.12	1,907.61	246.51	8.739		
17,100.00	7,806.89	7,753.89	7,753.89	184.67	155.57	-90.00	-8,175.01	2,127.97	2,247.66	2,002.92	244.74	9.184		
17,200.00	7,806.89	7,753.89	7,753.89	186.40	155.57	-90.00	-8,175.01	2,127.97	2,341.73	2,098.63	243.10	9.633		
17,300.00	7,806.89	7,753.89	7,753.89	188.14	155.57	-90.00	-8,175.01	2,127.97	2,436.27	2,194.68	241.59	10.084		
17,400.00	7,806.88	7,753.88	7,753.88	189.88	155.57	-90.00	-8,175.01	2,127.97	2,531.24	2,291.05	240.19	10.539		
17,500.00	7,806.88	7,753.88	7,753.88	191.62	155.57	-90.00	-8,175.01	2,127.97	2,626.57	2,387.69	238.89	10.995		
17,600.00	7,806.88	7,753.88	7,753.88	193.36	155.57	-90.00	-8,175.01	2,127.97	2,722.25	2,484.57	237.67	11.454		
17,700.00	7,806.88	7,753.88	7,753.88	195.10	155.57	-90.00	-8,175.01	2,127.97	2,818.22	2,581.67	236.54	11.914		
17,800.00	7,806.88	7,753.88	7,753.88	196.84	155.57	-90.00	-8,175.01	2,127.97	2,914.46	2,678.97	235.49	12.376		
17,900.00	7,806.88	7,753.88	7,753.88	198.58	155.57	-90.00	-8,175.01	2,127.97	3,010.95	2,776.44	234.51	12.840		
18,000.00	7,806.88	7,753.88	7,753.88	200.33	155.57	-90.00	-8,175.01	2,127.97	3,107.66	2,874.08	233.59	13.304		
18,027.46	7,807.00	7,754.00	7,754.00	200.80	155.58	-90.00	-8,175.01	2,127.97	3,134.32	2,900.96	233.36	13.431		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:		0.00 usft
Survey Program: 0-INC													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
8,050.00	7,720.33	7,729.33	7,729.33	42.40	155.07	33.21	-10,700.89	-1,898.02	9,975.44	9,779.99	195.45	51.037			
8,100.00	7,744.89	7,753.89	7,753.89	42.83	155.56	37.52	-10,700.89	-1,898.02	9,934.31	9,738.12	196.19	50.636			
8,150.00	7,765.56	7,774.56	7,774.56	43.27	155.98	43.10	-10,700.89	-1,898.02	9,891.34	9,694.49	196.85	50.249			
8,200.00	7,782.18	7,808.82	7,791.18	43.74	156.67	50.34	-10,700.89	-1,898.02	9,846.85	9,649.08	197.78	49.788			
8,250.00	7,794.63	7,803.63	7,803.63	44.22	156.56	59.66	-10,700.89	-1,898.02	9,801.19	9,603.28	197.91	49.524			
8,300.00	7,802.82	7,811.82	7,811.82	44.71	156.73	71.23	-10,700.89	-1,898.02	9,754.71	9,556.40	198.31	49.189			
8,350.00	7,806.68	7,815.68	7,815.68	45.21	156.81	84.62	-10,700.89	-1,898.02	9,707.76	9,509.14	198.62	48.876			
8,369.28	7,807.00	7,816.00	7,816.00	45.40	156.81	90.00	-10,700.89	-1,898.02	9,689.61	9,490.89	198.71	48.762			
8,400.00	7,807.00	7,816.00	7,816.00	45.72	156.81	90.00	-10,700.89	-1,898.02	9,660.69	9,461.83	198.85	48.582			
8,500.00	7,807.00	7,816.00	7,816.00	46.77	156.81	90.00	-10,700.89	-1,898.02	9,566.62	9,367.30	199.32	47.996			
8,600.00	7,807.00	7,816.00	7,816.00	47.86	156.81	90.00	-10,700.89	-1,898.02	9,472.68	9,272.87	199.81	47.409			
8,700.00	7,807.00	7,816.00	7,816.00	48.99	156.81	90.00	-10,700.89	-1,898.02	9,378.86	9,178.56	200.30	46.823			
8,800.00	7,806.99	7,815.99	7,815.99	50.16	156.81	90.00	-10,700.89	-1,898.02	9,285.18	9,084.36	200.82	46.237			
8,900.00	7,806.99	7,815.99	7,815.99	51.37	156.81	90.00	-10,700.89	-1,898.02	9,191.62	8,990.27	201.35	45.651			
9,000.00	7,806.99	7,815.99	7,815.99	52.60	156.81	90.00	-10,700.89	-1,898.02	9,098.20	8,896.31	201.89	45.064			
9,100.00	7,806.99	7,815.99	7,815.99	53.87	156.81	90.00	-10,700.89	-1,898.02	9,004.93	8,802.47	202.46	44.479			
9,200.00	7,806.99	7,815.99	7,815.99	55.17	156.81	90.00	-10,700.89	-1,898.02	8,911.80	8,708.76	203.04	43.893			
9,300.00	7,806.99	7,815.99	7,815.99	56.49	156.81	90.00	-10,700.89	-1,898.02	8,818.82	8,615.18	203.63	43.308			
9,400.00	7,806.99	7,815.99	7,815.99	57.83	156.81	90.00	-10,700.89	-1,898.02	8,725.99	8,521.74	204.25	42.723			
9,500.00	7,806.99	7,815.99	7,815.99	59.20	156.81	90.00	-10,700.89	-1,898.02	8,633.33	8,428.45	204.88	42.138			
9,600.00	7,806.98	7,815.98	7,815.98	60.59	156.81	90.00	-10,700.89	-1,898.02	8,540.83	8,335.30	205.53	41.555			
9,700.00	7,806.98	7,815.98	7,815.98	62.00	156.81	90.00	-10,700.89	-1,898.02	8,448.50	8,242.30	206.20	40.972			
9,800.00	7,806.98	7,815.98	7,815.98	63.43	156.81	90.00	-10,700.89	-1,898.02	8,356.35	8,149.45	206.89	40.389			
9,900.00	7,806.98	7,815.98	7,815.98	64.87	156.81	90.00	-10,700.89	-1,898.02	8,264.38	8,056.77	207.61	39.808			
10,000.00	7,806.98	7,815.98	7,815.98	66.34	156.81	90.00	-10,700.89	-1,898.02	8,172.60	7,964.26	208.34	39.228			
10,100.00	7,806.98	7,815.98	7,815.98	67.81	156.81	90.00	-10,700.89	-1,898.02	8,081.01	7,871.92	209.09	38.648			
10,200.00	7,806.98	7,815.98	7,815.98	69.30	156.81	90.00	-10,700.89	-1,898.02	7,989.63	7,779.76	209.87	38.070			
10,300.00	7,806.98	7,815.98	7,815.98	70.81	156.81	90.00	-10,700.89	-1,898.02	7,898.46	7,687.79	210.66	37.493			
10,400.00	7,806.97	7,815.97	7,815.97	72.32	156.81	90.00	-10,700.89	-1,898.02	7,807.50	7,596.01	211.49	36.917			
10,500.00	7,806.97	7,815.97	7,815.97	73.85	156.81	90.00	-10,700.89	-1,898.02	7,716.76	7,504.43	212.33	36.343			
10,600.00	7,806.97	7,815.97	7,815.97	75.39	156.81	90.00	-10,700.89	-1,898.02	7,626.26	7,413.06	213.20	35.771			
10,700.00	7,806.97	7,815.97	7,815.97	76.94	156.81	90.00	-10,700.89	-1,898.02	7,536.00	7,321.90	214.09	35.200			
10,800.00	7,806.97	7,815.97	7,815.97	78.49	156.81	90.00	-10,700.89	-1,898.02	7,445.98	7,230.97	215.01	34.630			
10,900.00	7,806.97	7,815.97	7,815.97	80.06	156.81	90.00	-10,700.89	-1,898.02	7,356.23	7,140.27	215.96	34.063			
11,000.00	7,806.97	7,815.97	7,815.97	81.64	156.81	90.00	-10,700.89	-1,898.02	7,266.74	7,049.81	216.93	33.498			
11,100.00	7,806.97	7,815.97	7,815.97	83.22	156.81	90.00	-10,700.89	-1,898.02	7,177.52	6,959.59	217.93	32.935			
11,200.00	7,806.96	7,815.96	7,815.96	84.81	156.81	90.00	-10,700.89	-1,898.02	7,088.60	6,869.64	218.96	32.374			
11,300.00	7,806.96	7,815.96	7,815.96	86.41	156.81	90.00	-10,700.89	-1,898.02	6,999.98	6,779.96	220.02	31.815			
11,400.00	7,806.96	7,815.96	7,815.96	88.01	156.81	90.00	-10,700.89	-1,898.02	6,911.66	6,690.56	221.11	31.259			
11,500.00	7,806.96	7,815.96	7,815.96	89.63	156.81	90.00	-10,700.89	-1,898.02	6,823.67	6,601.44	222.23	30.706			
11,600.00	7,806.96	7,815.96	7,815.96	91.24	156.81	90.00	-10,700.89	-1,898.02	6,736.02	6,512.64	223.38	30.155			
11,700.00	7,806.96	7,815.96	7,815.96	92.87	156.81	90.00	-10,700.89	-1,898.02	6,648.71	6,424.14	224.56	29.607			
11,800.00	7,806.96	7,815.96	7,815.96	94.49	156.81	90.00	-10,700.89	-1,898.02	6,561.76	6,335.98	225.78	29.063			
11,900.00	7,806.95	7,815.95	7,815.95	96.13	156.81	90.00	-10,700.89	-1,898.02	6,475.19	6,248.16	227.03	28.521			
12,000.00	7,806.95	7,815.95	7,815.95	97.77	156.81	90.00	-10,700.89	-1,898.02	6,389.02	6,160.70	228.32	27.983			
12,100.00	7,806.95	7,815.95	7,815.95	99.41	156.81	90.00	-10,700.89	-1,898.02	6,303.25	6,073.61	229.64	27.448			
12,200.00	7,806.95	7,815.95	7,815.95	101.06	156.81	90.00	-10,700.89	-1,898.02	6,217.91	5,986.90	231.00	26.917			
12,300.00	7,806.95	7,815.95	7,815.95	102.71	156.81	90.00	-10,700.89	-1,898.02	6,133.01	5,900.60	232.40	26.390			
12,400.00	7,806.95	7,815.95	7,815.95	104.37	156.81	90.00	-10,700.89	-1,898.02	6,048.57	5,814.73	233.84	25.866			
12,500.00	7,806.95	7,815.95	7,815.95	106.02	156.81	90.00	-10,700.89	-1,898.02	5,964.61	5,729.29	235.32	25.347			
12,600.00	7,806.95	7,815.95	7,815.95	107.69	156.81	90.00	-10,700.89	-1,898.02	5,881.15	5,644.32	236.84	24.832			
12,700.00	7,806.94	7,815.94	7,815.94	109.35	156.81	90.00	-10,700.89	-1,898.02	5,798.22	5,559.82	238.40	24.322			

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,800.00	7,806.94	7,815.94	7,815.94	111.02	156.81	90.00	-10,700.89	-1,898.02	5,715.84	5,475.83	240.00	23.816		
12,900.00	7,806.94	7,815.94	7,815.94	112.70	156.81	90.00	-10,700.89	-1,898.02	5,634.02	5,392.37	241.65	23.315		
13,000.00	7,806.94	7,815.94	7,815.94	114.37	156.81	90.00	-10,700.89	-1,898.02	5,552.80	5,309.46	243.35	22.819		
13,100.00	7,806.94	7,815.94	7,815.94	116.05	156.81	90.00	-10,700.89	-1,898.02	5,472.20	5,227.12	245.09	22.328		
13,200.00	7,806.94	7,815.94	7,815.94	117.74	156.81	90.00	-10,700.89	-1,898.02	5,392.26	5,145.38	246.87	21.842		
13,300.00	7,806.94	7,815.94	7,815.94	119.42	156.81	90.00	-10,700.89	-1,898.02	5,312.99	5,064.28	248.71	21.363		
13,400.00	7,806.94	7,815.94	7,815.94	121.11	156.81	90.00	-10,700.89	-1,898.02	5,234.43	4,983.84	250.59	20.888		
13,500.00	7,806.93	7,815.93	7,815.93	122.80	156.81	90.00	-10,700.89	-1,898.02	5,156.61	4,904.09	252.52	20.420		
13,600.00	7,806.93	7,815.93	7,815.93	124.49	156.81	90.00	-10,700.89	-1,898.02	5,079.57	4,825.07	254.50	19.959		
13,700.00	7,806.93	7,815.93	7,815.93	126.18	156.81	90.00	-10,700.89	-1,898.02	5,003.35	4,746.81	256.54	19.503		
13,800.00	7,806.93	7,815.93	7,815.93	127.88	156.81	90.00	-10,700.89	-1,898.02	4,927.97	4,669.35	258.62	19.055		
13,900.00	7,806.93	7,815.93	7,815.93	129.58	156.81	90.00	-10,700.89	-1,898.02	4,853.48	4,592.72	260.76	18.613		
14,000.00	7,806.93	7,815.93	7,815.93	131.28	156.81	90.00	-10,700.89	-1,898.02	4,779.93	4,516.98	262.95	18.178		
14,100.00	7,806.93	7,815.93	7,815.93	132.98	156.81	90.00	-10,700.89	-1,898.02	4,707.35	4,442.16	265.19	17.751		
14,200.00	7,806.93	7,815.93	7,815.93	134.68	156.81	90.00	-10,700.89	-1,898.02	4,635.79	4,368.31	267.48	17.331		
14,300.00	7,806.92	7,815.92	7,815.92	136.39	156.81	90.00	-10,700.89	-1,898.02	4,565.30	4,295.47	269.82	16.920		
14,400.00	7,806.92	7,815.92	7,815.92	138.10	156.81	90.00	-10,700.89	-1,898.02	4,495.92	4,223.71	272.21	16.516		
14,500.00	7,806.92	7,815.92	7,815.92	139.81	156.81	90.00	-10,700.89	-1,898.02	4,427.72	4,153.07	274.66	16.121		
14,600.00	7,806.92	7,815.92	7,815.92	141.52	156.81	90.00	-10,700.89	-1,898.02	4,360.75	4,083.60	277.15	15.734		
14,700.00	7,806.92	7,815.92	7,815.92	143.23	156.81	90.00	-10,700.89	-1,898.02	4,295.06	4,015.37	279.69	15.357		
14,800.00	7,806.92	7,815.92	7,815.92	144.94	156.81	90.00	-10,700.89	-1,898.02	4,230.72	3,948.44	282.27	14.988		
14,900.00	7,806.92	7,815.92	7,815.92	146.66	156.81	90.00	-10,700.89	-1,898.02	4,167.78	3,882.88	284.90	14.629		
15,000.00	7,806.92	7,815.92	7,815.92	148.37	156.81	90.00	-10,700.89	-1,898.02	4,106.31	3,818.74	287.57	14.280		
15,100.00	7,806.91	7,815.91	7,815.91	150.09	156.81	90.00	-10,700.89	-1,898.02	4,046.38	3,756.11	290.27	13.940		
15,200.00	7,806.91	7,815.91	7,815.91	151.81	156.81	90.00	-10,700.89	-1,898.02	3,988.06	3,695.05	293.00	13.611		
15,300.00	7,806.91	7,815.91	7,815.91	153.53	156.81	90.00	-10,700.89	-1,898.02	3,931.41	3,635.65	295.77	13.292		
15,400.00	7,806.91	7,815.91	7,815.91	155.25	156.81	90.00	-10,700.89	-1,898.02	3,876.52	3,577.97	298.55	12.984		
15,500.00	7,806.91	7,815.91	7,815.91	156.97	156.81	90.00	-10,700.89	-1,898.02	3,823.46	3,522.10	301.36	12.687		
15,600.00	7,806.91	7,815.91	7,815.91	158.70	156.81	90.00	-10,700.89	-1,898.02	3,772.30	3,468.13	304.17	12.402		
15,700.00	7,806.91	7,815.91	7,815.91	160.42	156.81	90.00	-10,700.89	-1,898.02	3,723.12	3,416.13	306.99	12.128		
15,800.00	7,806.91	7,815.91	7,815.91	162.15	156.81	90.00	-10,700.89	-1,898.02	3,676.01	3,366.21	309.80	11.866		
15,900.00	7,806.90	7,815.90	7,815.90	163.88	156.81	90.00	-10,700.89	-1,898.02	3,631.04	3,318.44	312.60	11.616		
16,000.00	7,806.90	7,815.90	7,815.90	165.60	156.81	90.00	-10,700.89	-1,898.02	3,588.29	3,272.91	315.38	11.378		
16,100.00	7,806.90	7,815.90	7,815.90	167.33	156.81	90.00	-10,700.89	-1,898.02	3,547.85	3,229.72	318.13	11.152		
16,200.00	7,806.90	7,815.90	7,815.90	169.06	156.81	90.00	-10,700.89	-1,898.02	3,509.80	3,188.96	320.84	10.940		
16,300.00	7,806.90	7,815.90	7,815.90	170.79	156.81	90.00	-10,700.89	-1,898.02	3,474.20	3,150.71	323.49	10.740		
16,400.00	7,806.90	7,815.90	7,815.90	172.52	156.81	90.00	-10,700.89	-1,898.02	3,441.15	3,115.07	326.08	10.553		
16,500.00	7,806.90	7,815.90	7,815.90	174.26	156.81	90.00	-10,700.89	-1,898.02	3,410.70	3,082.11	328.59	10.380		
16,600.00	7,806.89	7,815.89	7,815.89	175.99	156.81	90.00	-10,700.89	-1,898.02	3,382.94	3,051.92	331.02	10.220		
16,700.00	7,806.89	7,815.89	7,815.89	177.72	156.81	90.00	-10,700.89	-1,898.02	3,357.93	3,024.58	333.35	10.073		
16,800.00	7,806.89	7,815.89	7,815.89	179.46	156.81	90.00	-10,700.89	-1,898.02	3,335.73	3,000.16	335.57	9.940		
16,900.00	7,806.89	7,815.89	7,815.89	181.19	156.81	90.00	-10,700.89	-1,898.02	3,316.40	2,978.73	337.67	9.821		
17,000.00	7,806.89	7,815.89	7,815.89	182.93	156.81	90.00	-10,700.89	-1,898.02	3,299.99	2,960.35	339.64	9.716		
17,100.00	7,806.89	7,815.89	7,815.89	184.67	156.81	90.00	-10,700.89	-1,898.02	3,286.54	2,945.07	341.47	9.625		
17,200.00	7,806.89	7,815.89	7,815.89	186.40	156.81	90.00	-10,700.89	-1,898.02	3,276.09	2,932.93	343.15	9.547		
17,300.00	7,806.89	7,815.89	7,815.89	188.14	156.81	90.00	-10,700.89	-1,898.02	3,268.66	2,923.99	344.68	9.483		
17,400.00	7,806.88	7,815.88	7,815.88	189.88	156.81	90.00	-10,700.89	-1,898.02	3,264.29	2,918.25	346.04	9.433		
17,492.96	7,806.88	7,815.88	7,815.88	191.50	156.81	90.00	-10,700.89	-1,898.02	3,262.96	2,915.81	347.15	9.399 CC		
17,500.00	7,806.88	7,815.88	7,815.88	191.62	156.81	90.00	-10,700.89	-1,898.02	3,262.97	2,915.74	347.23	9.397 ES		
17,600.00	7,806.88	7,815.88	7,815.88	193.36	156.81	90.00	-10,700.89	-1,898.02	3,264.72	2,916.47	348.25	9.375		
17,700.00	7,806.88	7,815.88	7,815.88	195.10	156.81	90.00	-10,700.89	-1,898.02	3,269.53	2,920.43	349.09	9.366 SF		
17,800.00	7,806.88	7,815.88	7,815.88	196.84	156.81	90.00	-10,700.89	-1,898.02	3,277.38	2,927.62	349.76	9.370		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		Sec 4-T1N-R68W - EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 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
17,900.00	7,806.88	7,815.88	7,815.88	198.58	156.81	90.00	-10,700.89	-1,898.02	3,288.25	2,938.00	350.25	9.388	
18,000.00	7,806.88	7,815.88	7,815.88	200.33	156.81	90.00	-10,700.89	-1,898.02	3,302.12	2,951.55	350.57	9.419	
18,027.46	7,807.00	7,816.00	7,816.00	200.80	156.81	90.00	-10,700.89	-1,898.02	3,306.19	2,955.55	350.63	9.429	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	0.00	0.00	176.39	-9,697.75	612.28	9,717.10					
100.00	100.00	73.00	73.00	0.13	0.85	176.39	-9,697.75	612.28	9,717.06	9,716.08	0.98	9,915.646		
200.00	200.00	173.00	173.00	0.49	2.84	176.39	-9,697.75	612.28	9,717.06	9,713.73	3.33	2,918.793		
300.00	300.00	273.00	273.00	0.85	4.97	176.39	-9,697.75	612.28	9,717.06	9,711.23	5.83	1,667.907		
400.00	400.00	373.00	373.00	1.21	7.03	176.39	-9,697.75	612.28	9,717.06	9,708.82	8.24	1,179.738		
500.00	500.00	473.00	473.00	1.57	9.06	176.39	-9,697.75	612.28	9,717.06	9,706.43	10.63	914.307		
600.00	600.00	573.00	573.00	1.93	11.08	176.39	-9,697.75	612.28	9,717.06	9,704.05	13.01	746.848		
700.00	700.00	673.00	673.00	2.29	13.10	176.39	-9,697.75	612.28	9,717.06	9,701.67	15.39	631.410		
800.00	800.00	773.00	773.00	2.64	15.12	176.39	-9,697.75	612.28	9,717.06	9,699.29	17.77	546.957		
900.00	900.00	873.00	873.00	3.00	17.14	176.39	-9,697.75	612.28	9,717.06	9,696.92	20.14	482.470		
1,000.00	1,000.00	973.00	973.00	3.36	19.15	176.39	-9,697.75	612.28	9,717.06	9,694.55	22.51	431.606		
1,100.00	1,099.98	1,072.98	1,072.98	3.71	21.17	49.41	-9,697.75	612.28	9,715.92	9,691.05	24.87	390.630		
1,200.00	1,199.84	1,172.84	1,172.84	4.04	23.18	49.48	-9,697.75	612.28	9,712.52	9,685.30	27.22	356.819		
1,300.00	1,299.45	1,272.45	1,272.45	4.39	25.18	49.61	-9,697.75	612.28	9,706.85	9,677.28	29.57	328.281		
1,400.00	1,398.70	1,371.70	1,371.70	4.74	27.18	49.78	-9,697.75	612.28	9,698.93	9,667.01	31.92	303.865		
1,500.00	1,497.47	1,470.47	1,470.47	5.12	29.17	50.01	-9,697.75	612.28	9,688.78	9,654.51	34.27	282.726		
1,600.00	1,595.62	1,568.62	1,568.62	5.51	31.14	50.29	-9,697.75	612.28	9,676.42	9,639.80	36.62	264.229		
1,700.00	1,693.06	1,666.06	1,666.06	5.94	33.10	50.61	-9,697.75	612.28	9,661.88	9,622.90	38.98	247.893		
1,800.00	1,789.64	1,762.64	1,762.64	6.39	35.05	50.99	-9,697.75	612.28	9,645.18	9,603.84	41.33	233.344		
1,863.26	1,850.25	1,823.25	1,823.25	6.70	36.27	51.26	-9,697.75	612.28	9,633.52	9,590.69	42.83	224.925		
1,900.00	1,885.34	1,858.34	1,858.34	6.89	36.97	51.31	-9,697.75	612.28	9,626.51	9,582.81	43.70	220.289		
2,000.00	1,980.83	1,953.83	1,953.83	7.41	38.89	51.44	-9,697.75	612.28	9,607.47	9,561.39	46.08	208.517		
2,100.00	2,076.33	2,049.33	2,049.33	7.95	40.82	51.58	-9,697.75	612.28	9,588.48	9,540.01	48.46	197.846		
2,200.00	2,171.82	2,144.82	2,144.82	8.50	42.74	51.71	-9,697.75	612.28	9,569.54	9,518.67	50.87	188.136		
2,300.00	2,267.32	2,240.32	2,240.32	9.07	44.66	51.85	-9,697.75	612.28	9,550.66	9,497.38	53.28	179.270		
2,400.00	2,362.81	2,335.81	2,335.81	9.64	46.58	51.99	-9,697.75	612.28	9,531.83	9,476.14	55.69	171.146		
2,500.00	2,458.30	2,431.30	2,431.30	10.22	48.50	52.12	-9,697.75	612.28	9,513.06	9,454.94	58.12	163.679		
2,600.00	2,553.80	2,526.80	2,526.80	10.81	50.42	52.26	-9,697.75	612.28	9,494.34	9,433.79	60.55	156.795		
2,700.00	2,649.29	2,622.29	2,622.29	11.41	52.34	52.40	-9,697.75	612.28	9,475.68	9,412.69	62.99	150.431		
2,800.00	2,744.79	2,717.79	2,717.79	12.01	54.26	52.54	-9,697.75	612.28	9,457.08	9,391.65	65.43	144.530		
2,900.00	2,840.28	2,813.28	2,813.28	12.61	56.18	52.68	-9,697.75	612.28	9,438.53	9,370.65	67.88	139.046		
3,000.00	2,935.77	2,908.77	2,908.77	13.22	58.10	52.82	-9,697.75	612.28	9,420.04	9,349.71	70.33	133.936		
3,100.00	3,031.27	3,004.27	3,004.27	13.83	60.02	52.96	-9,697.75	612.28	9,401.61	9,328.82	72.79	129.165		
3,200.00	3,126.76	3,100.24	3,099.76	14.44	61.95	53.10	-9,697.75	612.28	9,383.23	9,307.98	75.26	124.685		
3,300.00	3,222.26	3,204.74	3,195.26	15.06	64.06	53.24	-9,697.75	612.28	9,364.92	9,287.02	77.90	120.219		
3,400.00	3,317.75	3,309.25	3,290.75	15.68	66.16	53.38	-9,697.75	612.28	9,346.66	9,266.11	80.54	116.043		
3,500.00	3,413.25	3,386.25	3,386.25	16.30	67.71	53.52	-9,697.75	612.28	9,328.46	9,245.82	82.64	112.880		
3,600.00	3,508.74	3,481.74	3,481.74	16.92	69.63	53.66	-9,697.75	612.28	9,310.32	9,225.21	85.11	109.391		
3,700.00	3,604.23	3,577.23	3,577.23	17.54	71.55	53.81	-9,697.75	612.28	9,292.24	9,204.65	87.58	106.096		
3,800.00	3,699.73	3,672.73	3,672.73	18.17	73.47	53.95	-9,697.75	612.28	9,274.22	9,184.16	90.06	102.981		
3,900.00	3,795.22	3,768.22	3,768.22	18.79	75.39	54.09	-9,697.75	612.28	9,256.25	9,163.72	92.53	100.030		
4,000.00	3,890.72	3,863.72	3,863.72	19.42	77.31	54.24	-9,697.75	612.28	9,238.35	9,143.34	95.01	97.231		
4,100.00	3,986.21	3,959.21	3,959.21	20.05	79.23	54.38	-9,697.75	612.28	9,220.51	9,123.02	97.50	94.574		
4,200.00	4,081.70	4,054.70	4,054.70	20.67	81.15	54.53	-9,697.75	612.28	9,202.73	9,102.75	99.98	92.047		
4,300.00	4,177.20	4,150.20	4,150.20	21.30	83.07	54.68	-9,697.75	612.28	9,185.02	9,082.55	102.46	89.642		
4,400.00	4,272.69	4,245.69	4,245.69	21.93	84.99	54.82	-9,697.75	612.28	9,167.36	9,062.41	104.95	87.349		
4,500.00	4,368.19	4,341.19	4,341.19	22.56	86.91	54.97	-9,697.75	612.28	9,149.77	9,042.33	107.44	85.162		
4,600.00	4,463.68	4,436.68	4,436.68	23.19	88.83	55.12	-9,697.75	612.28	9,132.23	9,022.30	109.93	83.073		
4,700.00	4,559.17	4,532.17	4,532.17	23.83	90.75	55.27	-9,697.75	612.28	9,114.77	9,002.34	112.42	81.076		
4,800.00	4,654.67	4,627.67	4,627.67	24.46	92.67	55.42	-9,697.75	612.28	9,097.36	8,982.45	114.92	79.165		
4,900.00	4,750.16	4,723.16	4,723.16	25.09	94.59	55.57	-9,697.75	612.28	9,080.02	8,962.61	117.41	77.335		
5,000.00	4,845.66	4,818.66	4,818.66	25.72	96.51	55.72	-9,697.75	612.28	9,062.74	8,942.83	119.91	75.581		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	4,941.15	4,914.15	4,914.15	26.36	98.43	55.87	-9,697.75	612.28	9,045.53	8,923.12	122.41	73.897		
5,200.00	5,036.65	5,009.65	5,009.65	26.99	100.36	56.02	-9,697.75	612.28	9,028.38	8,903.47	124.91	72.281		
5,300.00	5,132.14	5,105.14	5,105.14	27.63	102.28	56.17	-9,697.75	612.28	9,011.30	8,883.89	127.41	70.728		
5,400.00	5,227.63	5,200.63	5,200.63	28.26	104.20	56.32	-9,697.75	612.28	8,994.28	8,864.37	129.91	69.234		
5,500.00	5,323.13	5,303.87	5,296.13	28.90	106.27	56.47	-9,697.75	612.28	8,977.33	8,844.76	132.57	67.717		
5,600.00	5,418.62	5,408.38	5,391.62	29.53	108.37	56.63	-9,697.75	612.28	8,960.44	8,825.18	135.26	66.246		
5,700.00	5,514.12	5,487.12	5,487.12	30.17	109.96	56.78	-9,697.75	612.28	8,943.62	8,806.19	137.43	65.078		
5,800.00	5,609.61	5,582.61	5,582.61	30.80	111.88	56.93	-9,697.75	612.28	8,926.87	8,786.93	139.94	63.791		
5,900.00	5,705.10	5,678.10	5,678.10	31.44	113.80	57.09	-9,697.75	612.28	8,910.19	8,767.74	142.45	62.550		
6,000.00	5,800.60	5,773.60	5,773.60	32.08	115.72	57.25	-9,697.75	612.28	8,893.57	8,748.61	144.96	61.352		
6,100.00	5,896.09	5,869.09	5,869.09	32.71	117.64	57.40	-9,697.75	612.28	8,877.02	8,729.55	147.47	60.194		
6,200.00	5,991.59	5,964.59	5,964.59	33.35	119.56	57.56	-9,697.75	612.28	8,860.54	8,710.55	149.99	59.075		
6,300.00	6,087.08	6,060.08	6,060.08	33.99	121.48	57.71	-9,697.75	612.28	8,844.13	8,691.63	152.50	57.993		
6,400.00	6,182.57	6,155.57	6,155.57	34.62	123.40	57.87	-9,697.75	612.28	8,827.79	8,672.77	155.02	56.946		
6,499.99	6,278.06	6,251.06	6,251.06	35.26	125.32	58.03	-9,697.75	612.28	8,811.52	8,653.98	157.54	55.932		
6,505.95	6,283.75	6,256.75	6,256.75	35.30	125.44	58.04	-9,697.75	612.28	8,810.55	8,652.86	157.69	55.873		
6,600.00	6,374.00	6,347.00	6,347.00	35.88	127.25	57.93	-9,697.75	612.28	8,796.12	8,636.07	160.05	54.959		
6,700.00	6,470.87	6,443.87	6,443.87	36.44	129.20	57.84	-9,697.75	612.28	8,782.61	8,620.07	162.54	54.035		
6,800.00	6,568.53	6,541.53	6,541.53	36.96	131.16	57.76	-9,697.75	612.28	8,770.99	8,605.99	165.00	53.158		
6,900.00	6,666.89	6,639.89	6,639.89	37.43	133.14	57.69	-9,697.75	612.28	8,761.25	8,593.82	167.43	52.327		
7,000.00	6,765.82	6,738.82	6,738.82	37.85	135.13	57.64	-9,697.75	612.28	8,753.39	8,583.55	169.84	51.540		
7,100.00	6,865.19	6,838.19	6,838.19	38.22	137.13	57.60	-9,697.75	612.28	8,747.41	8,575.20	172.21	50.796		
7,200.00	6,964.89	6,937.89	6,937.89	38.55	139.13	57.57	-9,697.75	612.28	8,743.30	8,568.75	174.54	50.092		
7,300.00	7,064.80	7,037.80	7,037.80	38.83	141.14	57.55	-9,697.75	612.28	8,741.07	8,564.22	176.85	49.427		
7,369.20	7,134.00	7,107.00	7,107.00	39.00	142.53	-175.44	-9,697.75	612.28	8,740.62	8,562.20	178.42	48.990		
7,400.00	7,164.80	7,137.80	7,137.80	39.06	143.15	-175.44	-9,697.75	612.28	8,740.62	8,561.51	179.11	48.801		
7,469.20	7,234.00	7,207.00	7,207.00	39.22	144.54	-175.44	-9,697.75	612.28	8,740.62	8,559.95	180.67	48.380		
7,500.00	7,264.78	7,237.78	7,237.78	39.29	145.16	4.91	-9,697.75	612.28	8,739.79	8,558.43	181.36	48.190		
7,550.00	7,314.53	7,287.53	7,287.53	39.44	146.16	4.95	-9,697.75	612.28	8,734.95	8,552.46	182.49	47.865		
7,600.00	7,363.66	7,336.66	7,336.66	39.62	147.15	5.04	-9,697.75	612.28	8,725.81	8,542.19	183.62	47.520		
7,650.00	7,411.81	7,384.81	7,384.81	39.82	148.12	5.17	-9,697.75	612.28	8,712.43	8,527.69	184.74	47.161		
7,700.00	7,458.61	7,431.61	7,431.61	40.06	149.06	5.35	-9,697.75	612.28	8,694.93	8,509.10	185.83	46.788		
7,750.00	7,503.69	7,476.69	7,476.69	40.32	149.97	5.59	-9,697.75	612.28	8,673.43	8,486.53	186.90	46.407		
7,800.00	7,546.72	7,519.72	7,519.72	40.60	150.83	5.90	-9,697.75	612.28	8,648.10	8,460.18	187.92	46.020		
7,850.00	7,587.38	7,560.38	7,560.38	40.92	151.65	6.30	-9,697.75	612.28	8,619.13	8,430.23	188.89	45.629		
7,900.00	7,625.34	7,601.66	7,598.34	41.25	152.48	6.81	-9,697.75	612.28	8,586.74	8,396.86	189.88	45.223		
7,950.00	7,660.33	7,633.33	7,633.33	41.61	153.12	7.47	-9,697.75	612.28	8,551.17	8,360.51	190.66	44.850		
8,000.00	7,692.07	7,665.07	7,665.07	42.00	153.76	8.34	-9,697.75	612.28	8,512.71	8,321.27	191.44	44.466		
8,050.00	7,720.33	7,706.67	7,693.33	42.40	154.59	9.50	-9,697.75	612.28	8,471.64	8,279.23	192.41	44.029		
8,100.00	7,744.89	7,717.89	7,717.89	42.83	154.82	11.11	-9,697.75	612.28	8,428.27	8,235.51	192.76	43.724		
8,150.00	7,765.56	7,738.56	7,738.56	43.27	155.23	13.47	-9,697.75	612.28	8,382.94	8,189.66	193.29	43.370		
8,200.00	7,782.18	7,755.18	7,755.18	43.74	155.57	17.17	-9,697.75	612.28	8,335.99	8,142.27	193.73	43.030		
8,250.00	7,794.63	7,767.63	7,767.63	44.22	155.82	23.64	-9,697.75	612.28	8,287.78	8,093.71	194.07	42.706		
8,300.00	7,802.82	7,775.82	7,775.82	44.71	155.98	37.04	-9,697.75	612.28	8,238.67	8,044.36	194.31	42.399		
8,350.00	7,806.68	7,779.68	7,779.68	45.21	156.06	69.83	-9,697.75	612.28	8,189.04	7,994.58	194.46	42.111		
8,369.28	7,807.00	7,780.00	7,780.00	45.40	156.07	90.01	-9,697.75	612.28	8,169.85	7,975.36	194.50	42.005		
8,400.00	7,807.00	7,780.00	7,780.00	45.72	156.07	90.01	-9,697.75	612.28	8,139.26	7,944.72	194.53	41.840		
8,500.00	7,807.00	7,780.00	7,780.00	46.77	156.07	90.01	-9,697.75	612.28	8,039.68	7,845.02	194.66	41.300		
8,600.00	7,807.00	7,780.00	7,780.00	47.86	156.07	90.01	-9,697.75	612.28	7,940.12	7,745.33	194.80	40.761		
8,700.00	7,807.00	7,780.00	7,780.00	48.99	156.07	90.01	-9,697.75	612.28	7,840.57	7,645.64	194.93	40.222		
8,800.00	7,806.99	7,779.99	7,779.99	50.16	156.07	90.01	-9,697.75	612.28	7,741.03	7,545.95	195.08	39.682		
8,900.00	7,806.99	7,779.99	7,779.99	51.37	156.07	90.01	-9,697.75	612.28	7,641.50	7,446.28	195.22	39.142		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,779.99	7,779.99	52.60	156.07	90.01	-9,697.75	612.28	7,541.99	7,346.61	195.38	38.603		
9,100.00	7,806.99	7,779.99	7,779.99	53.87	156.07	90.01	-9,697.75	612.28	7,442.49	7,246.96	195.53	38.063		
9,200.00	7,806.99	7,779.99	7,779.99	55.17	156.07	90.01	-9,697.75	612.28	7,343.00	7,147.30	195.69	37.523		
9,300.00	7,806.99	7,779.99	7,779.99	56.49	156.07	90.01	-9,697.75	612.28	7,243.52	7,047.66	195.86	36.983		
9,400.00	7,806.99	7,779.99	7,779.99	57.83	156.07	90.01	-9,697.75	612.28	7,144.06	6,948.03	196.03	36.443		
9,500.00	7,806.99	7,779.99	7,779.99	59.20	156.07	90.01	-9,697.75	612.28	7,044.62	6,848.41	196.21	35.903		
9,600.00	7,806.98	7,779.98	7,779.98	60.59	156.07	90.01	-9,697.75	612.28	6,945.19	6,748.80	196.39	35.363		
9,700.00	7,806.98	7,779.98	7,779.98	62.00	156.07	90.01	-9,697.75	612.28	6,845.78	6,649.19	196.59	34.823		
9,800.00	7,806.98	7,779.98	7,779.98	63.43	156.07	90.01	-9,697.75	612.28	6,746.38	6,549.60	196.78	34.284		
9,900.00	7,806.98	7,779.98	7,779.98	64.87	156.07	90.01	-9,697.75	612.28	6,647.01	6,450.02	196.99	33.744		
10,000.00	7,806.98	7,779.98	7,779.98	66.34	156.07	90.01	-9,697.75	612.28	6,547.65	6,350.45	197.20	33.204		
10,100.00	7,806.98	7,779.98	7,779.98	67.81	156.07	90.01	-9,697.75	612.28	6,448.31	6,250.90	197.41	32.664		
10,200.00	7,806.98	7,779.98	7,779.98	69.30	156.07	90.01	-9,697.75	612.28	6,349.00	6,151.36	197.64	32.124		
10,300.00	7,806.98	7,779.98	7,779.98	70.81	156.07	90.01	-9,697.75	612.28	6,249.70	6,051.83	197.87	31.584		
10,400.00	7,806.97	7,779.97	7,779.97	72.32	156.07	90.01	-9,697.75	612.28	6,150.43	5,952.31	198.12	31.044		
10,500.00	7,806.97	7,779.97	7,779.97	73.85	156.07	90.01	-9,697.75	612.28	6,051.18	5,852.81	198.37	30.505		
10,600.00	7,806.97	7,779.97	7,779.97	75.39	156.07	90.01	-9,697.75	612.28	5,951.96	5,753.33	198.63	29.965		
10,700.00	7,806.97	7,779.97	7,779.97	76.94	156.07	90.01	-9,697.75	612.28	5,852.76	5,653.86	198.90	29.426		
10,800.00	7,806.97	7,779.97	7,779.97	78.49	156.07	90.01	-9,697.75	612.28	5,753.59	5,554.41	199.18	28.886		
10,900.00	7,806.97	7,779.97	7,779.97	80.06	156.07	90.01	-9,697.75	612.28	5,654.45	5,454.98	199.47	28.347		
11,000.00	7,806.97	7,779.97	7,779.97	81.64	156.07	90.01	-9,697.75	612.28	5,555.34	5,355.57	199.78	27.808		
11,100.00	7,806.97	7,779.97	7,779.97	83.22	156.07	90.01	-9,697.75	612.28	5,456.27	5,256.18	200.09	27.269		
11,200.00	7,806.96	7,779.96	7,779.96	84.81	156.07	90.01	-9,697.75	612.28	5,357.23	5,156.81	200.42	26.730		
11,300.00	7,806.96	7,779.96	7,779.96	86.41	156.07	90.01	-9,697.75	612.28	5,258.22	5,057.46	200.76	26.192		
11,400.00	7,806.96	7,779.96	7,779.96	88.01	156.07	90.01	-9,697.75	612.28	5,159.25	4,958.14	201.12	25.653		
11,500.00	7,806.96	7,779.96	7,779.96	89.63	156.07	90.00	-9,697.75	612.28	5,060.33	4,858.84	201.49	25.115		
11,600.00	7,806.96	7,779.96	7,779.96	91.24	156.07	90.00	-9,697.75	612.28	4,961.44	4,759.57	201.87	24.577		
11,700.00	7,806.96	7,779.96	7,779.96	92.87	156.07	90.00	-9,697.75	612.28	4,862.61	4,660.33	202.28	24.039		
11,800.00	7,806.96	7,779.96	7,779.96	94.49	156.07	90.00	-9,697.75	612.28	4,763.82	4,561.12	202.70	23.502		
11,900.00	7,806.95	7,779.95	7,779.95	96.13	156.07	90.00	-9,697.75	612.28	4,665.08	4,461.94	203.14	22.964		
12,000.00	7,806.95	7,779.95	7,779.95	97.77	156.07	90.00	-9,697.75	612.28	4,566.40	4,362.79	203.61	22.427		
12,100.00	7,806.95	7,779.95	7,779.95	99.41	156.07	90.00	-9,697.75	612.28	4,467.77	4,263.68	204.09	21.891		
12,200.00	7,806.95	7,779.95	7,779.95	101.06	156.07	90.00	-9,697.75	612.28	4,369.21	4,164.61	204.60	21.355		
12,300.00	7,806.95	7,779.95	7,779.95	102.71	156.07	90.00	-9,697.75	612.28	4,270.72	4,065.58	205.13	20.819		
12,400.00	7,806.95	7,779.95	7,779.95	104.37	156.07	90.00	-9,697.75	612.28	4,172.29	3,966.60	205.70	20.284		
12,500.00	7,806.95	7,779.95	7,779.95	106.02	156.07	90.00	-9,697.75	612.28	4,073.95	3,867.66	206.29	19.749		
12,600.00	7,806.95	7,779.95	7,779.95	107.69	156.07	90.00	-9,697.75	612.28	3,975.68	3,768.78	206.91	19.215		
12,700.00	7,806.94	7,779.94	7,779.94	109.35	156.07	90.00	-9,697.75	612.28	3,877.51	3,669.95	207.56	18.681		
12,800.00	7,806.94	7,779.94	7,779.94	111.02	156.07	90.00	-9,697.75	612.28	3,779.43	3,571.17	208.25	18.148		
12,900.00	7,806.94	7,779.94	7,779.94	112.70	156.07	90.00	-9,697.75	612.28	3,681.45	3,472.47	208.99	17.616		
13,000.00	7,806.94	7,779.94	7,779.94	114.37	156.07	90.00	-9,697.75	612.28	3,583.59	3,373.83	209.76	17.084		
13,100.00	7,806.94	7,779.94	7,779.94	116.05	156.07	90.00	-9,697.75	612.28	3,485.85	3,275.27	210.58	16.554		
13,200.00	7,806.94	7,779.94	7,779.94	117.74	156.07	90.00	-9,697.75	612.28	3,388.23	3,176.78	211.45	16.024		
13,300.00	7,806.94	7,779.94	7,779.94	119.42	156.07	90.00	-9,697.75	612.28	3,290.77	3,078.39	212.38	15.495		
13,400.00	7,806.94	7,779.94	7,779.94	121.11	156.07	90.00	-9,697.75	612.28	3,193.46	2,980.09	213.36	14.967		
13,500.00	7,806.93	7,779.93	7,779.93	122.80	156.07	90.00	-9,697.75	612.28	3,096.32	2,881.90	214.41	14.441		
13,600.00	7,806.93	7,779.93	7,779.93	124.49	156.07	90.00	-9,697.75	612.28	2,999.36	2,783.83	215.53	13.916		
13,700.00	7,806.93	7,779.93	7,779.93	126.18	156.07	90.00	-9,697.75	612.28	2,902.62	2,685.89	216.73	13.393		
13,800.00	7,806.93	7,779.93	7,779.93	127.88	156.07	90.00	-9,697.75	612.28	2,806.10	2,588.08	218.02	12.871		
13,900.00	7,806.93	7,779.93	7,779.93	129.58	156.07	90.00	-9,697.75	612.28	2,709.84	2,490.44	219.40	12.351		
14,000.00	7,806.93	7,779.93	7,779.93	131.28	156.07	90.00	-9,697.75	612.28	2,613.85	2,392.97	220.89	11.833		
14,100.00	7,806.93	7,779.93	7,779.93	132.98	156.07	90.00	-9,697.75	612.28	2,518.18	2,295.69	222.49	11.318		

CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

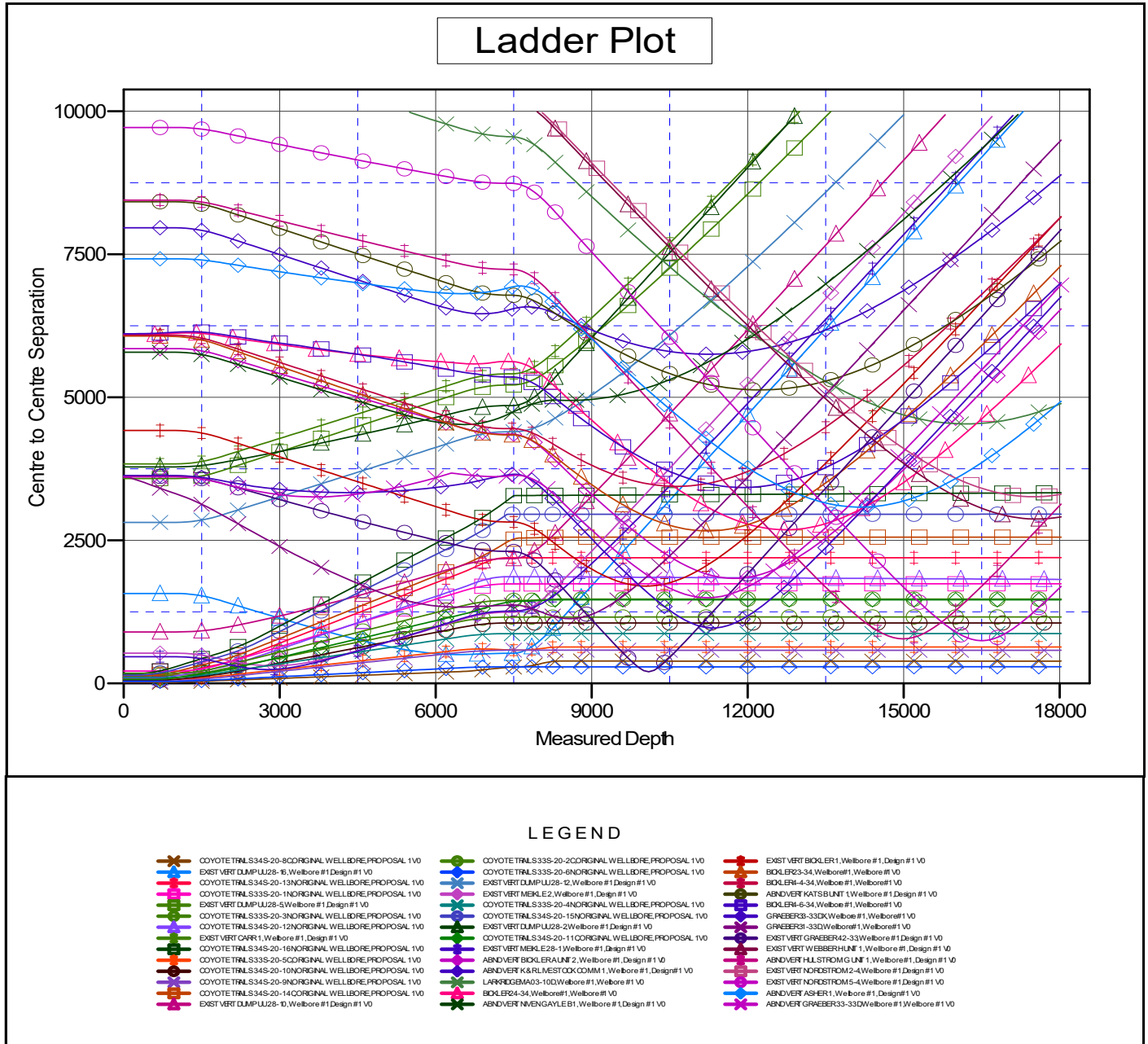
Offset Design Sec 4-T1N-R68W - EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	7,806.93	7,779.93	7,779.93	134.68	156.07	90.00	-9,697.75	612.28	2,422.86	2,198.64	224.22	10.806	
14,300.00	7,806.92	7,779.92	7,779.92	136.39	156.07	90.00	-9,697.75	612.28	2,327.93	2,101.83	226.10	10.296	
14,400.00	7,806.92	7,779.92	7,779.92	138.10	156.07	90.00	-9,697.75	612.28	2,233.45	2,005.31	228.13	9.790	
14,500.00	7,806.92	7,779.92	7,779.92	139.81	156.07	90.00	-9,697.75	612.28	2,139.46	1,909.11	230.35	9.288	
14,600.00	7,806.92	7,779.92	7,779.92	141.52	156.07	90.00	-9,697.75	612.28	2,046.05	1,813.28	232.76	8.790	
14,700.00	7,806.92	7,779.92	7,779.92	143.23	156.07	90.00	-9,697.75	612.28	1,953.29	1,717.88	235.40	8.298	
14,800.00	7,806.92	7,779.92	7,779.92	144.94	156.07	90.00	-9,697.75	612.28	1,861.27	1,622.98	238.29	7.811	
14,900.00	7,806.92	7,779.92	7,779.92	146.66	156.07	90.00	-9,697.75	612.28	1,770.13	1,528.66	241.47	7.331	
15,000.00	7,806.92	7,779.92	7,779.92	148.37	156.07	90.00	-9,697.75	612.28	1,679.99	1,435.03	244.96	6.858	
15,100.00	7,806.91	7,779.91	7,779.91	150.09	156.07	90.00	-9,697.75	612.28	1,591.03	1,342.22	248.81	6.394	
15,200.00	7,806.91	7,779.91	7,779.91	151.81	156.07	90.00	-9,697.75	612.28	1,503.46	1,250.39	253.07	5.941	
15,300.00	7,806.91	7,779.91	7,779.91	153.53	156.07	90.00	-9,697.75	612.28	1,417.53	1,159.77	257.76	5.499	
15,400.00	7,806.91	7,779.91	7,779.91	155.25	156.07	90.00	-9,697.75	612.28	1,333.57	1,070.62	262.95	5.072	
15,500.00	7,806.91	7,779.91	7,779.91	156.97	156.07	90.00	-9,697.75	612.28	1,251.97	983.30	268.67	4.660	
15,600.00	7,806.91	7,779.91	7,779.91	158.70	156.07	90.00	-9,697.75	612.28	1,173.22	898.27	274.95	4.267	
15,700.00	7,806.91	7,779.91	7,779.91	160.42	156.07	90.00	-9,697.75	612.28	1,097.93	816.13	281.80	3.896	
15,800.00	7,806.91	7,779.91	7,779.91	162.15	156.07	90.00	-9,697.75	612.28	1,026.87	737.70	289.17	3.551	
15,900.00	7,806.90	7,779.90	7,779.90	163.88	156.07	90.00	-9,697.75	612.28	960.98	664.03	296.95	3.236	
16,000.00	7,806.90	7,779.90	7,779.90	165.60	156.07	90.00	-9,697.75	612.28	901.38	596.48	304.90	2.956	
16,100.00	7,806.90	7,779.90	7,779.90	167.33	156.07	90.00	-9,697.75	612.28	849.41	536.75	312.66	2.717	
16,200.00	7,806.90	7,779.90	7,779.90	169.06	156.07	90.00	-9,697.75	612.28	806.55	486.88	319.66	2.523	
16,300.00	7,806.90	7,779.90	7,779.90	170.79	156.07	90.00	-9,697.75	612.28	774.29	449.08	325.21	2.381	
16,400.00	7,806.90	7,779.90	7,779.90	172.52	156.07	90.00	-9,697.75	612.28	754.02	425.45	328.57	2.295	
16,500.00	7,806.90	7,779.90	7,779.90	174.26	156.07	90.00	-9,697.75	612.28	746.70	417.51	329.18	2.268 ES, SF	
16,504.94	7,806.90	7,779.90	7,779.90	174.34	156.07	90.00	-9,697.75	612.28	746.68	417.54	329.14	2.269 CC	
16,600.00	7,806.89	7,779.89	7,779.89	175.99	156.07	90.00	-9,697.75	612.28	752.71	425.86	326.85	2.303	
16,700.00	7,806.89	7,779.89	7,779.89	177.72	156.07	90.00	-9,697.75	612.28	771.74	449.90	321.84	2.398	
16,800.00	7,806.89	7,779.89	7,779.89	179.46	156.07	90.00	-9,697.75	612.28	802.87	488.11	314.76	2.551	
16,900.00	7,806.89	7,779.89	7,779.89	181.19	156.07	90.00	-9,697.75	612.28	844.75	538.36	306.39	2.757	
17,000.00	7,806.89	7,779.89	7,779.89	182.93	156.07	90.00	-9,697.75	612.28	895.89	598.44	297.45	3.012	
17,100.00	7,806.89	7,779.89	7,779.89	184.67	156.07	90.00	-9,697.75	612.28	954.79	666.29	288.50	3.309	
17,200.00	7,806.89	7,779.89	7,779.89	186.40	156.07	90.00	-9,697.75	612.28	1,020.12	740.20	279.92	3.644	
17,300.00	7,806.89	7,779.89	7,779.89	188.14	156.07	90.00	-9,697.75	612.28	1,090.71	818.82	271.90	4.011	
17,400.00	7,806.88	7,779.88	7,779.88	189.88	156.07	90.00	-9,697.75	612.28	1,165.62	901.07	264.55	4.406	
17,500.00	7,806.88	7,779.88	7,779.88	191.62	156.07	90.00	-9,697.75	612.28	1,244.06	986.17	257.88	4.824	
17,600.00	7,806.88	7,779.88	7,779.88	193.36	156.07	90.00	-9,697.75	612.28	1,325.40	1,073.52	251.88	5.262	
17,700.00	7,806.88	7,779.88	7,779.88	195.10	156.07	90.00	-9,697.75	612.28	1,409.15	1,162.65	246.50	5.717	
17,800.00	7,806.88	7,779.88	7,779.88	196.84	156.07	90.00	-9,697.75	612.28	1,494.90	1,253.21	241.69	6.185	
17,900.00	7,806.88	7,779.88	7,779.88	198.58	156.07	90.00	-9,697.75	612.28	1,582.32	1,344.94	237.38	6.666	
18,000.00	7,806.88	7,779.88	7,779.88	200.33	156.07	90.00	-9,697.75	612.28	1,671.15	1,437.63	233.52	7.156	
18,027.46	7,807.00	7,780.00	7,780.00	200.80	156.07	90.00	-9,697.75	612.28	1,695.65	1,463.13	232.52	7.293	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 25' @ 5269.00usft
Offset Depths are relative to Offset Datum
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-7N
Coordinate System is US State Plane 1983, Colorado Northern Zone
Grid Convergence at Surface is: 0.32°



CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-7N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-7N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB 25' @ 5269.00usft

Offset Depths are relative to Offset Datum

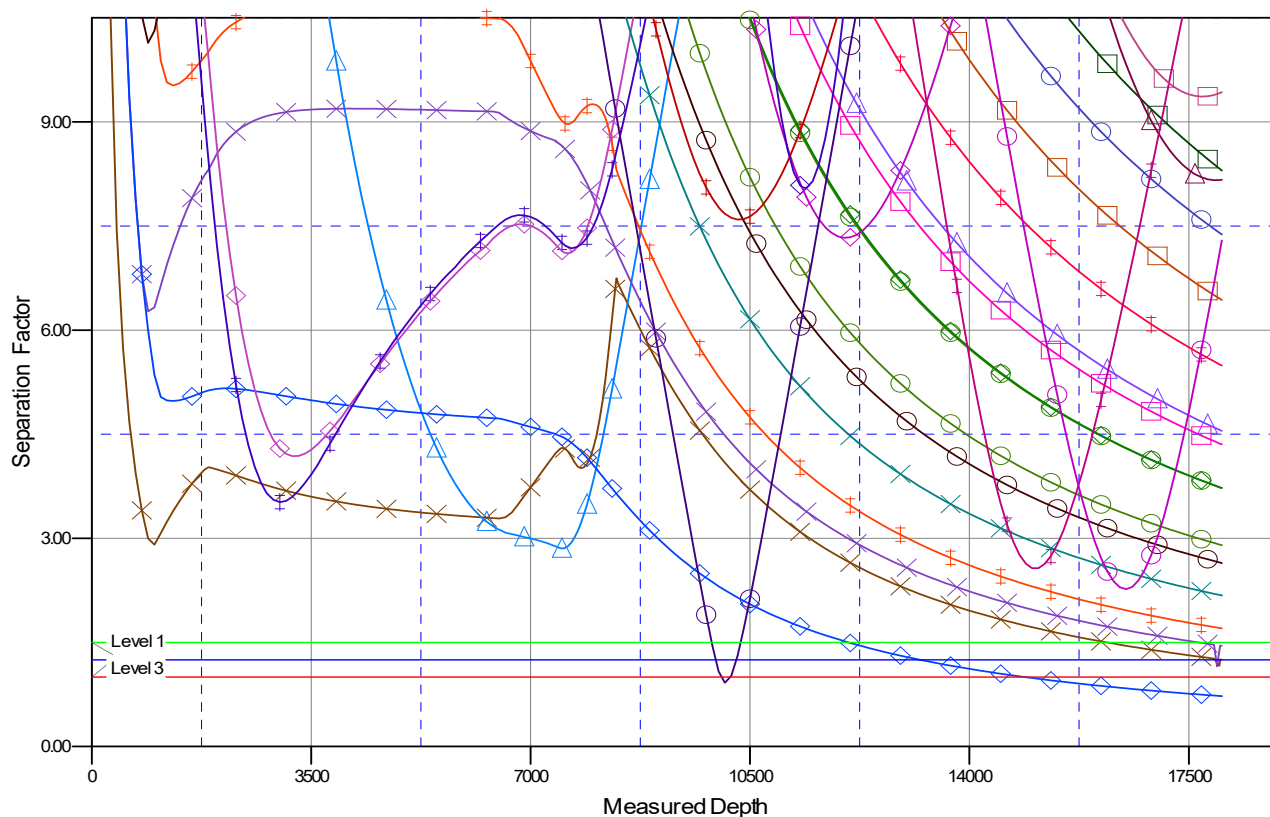
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-7N

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

COYOTETRL33S-20-8CORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-2CORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT BOKLER1, Wellbore #1, Design #1 V0
EXISTVERT DUMPLU28- 6, Wellbore #1, Design #1 V0	COYOTETRL33S-20-6NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER23-34, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-13NORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT DUMPLU28-12, Wellbore #1, Design #1 V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
EXISTVERT DUMPLU28-5, Wellbore #1, Design #1 V0	EXISTVERT MEKLE2, Wellbore #1, Design #1 V0	ABNDVERT KATSBUNT 1, Wellbore #1, Design #1 V0
COYOTETRL33S-20-14NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-15NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-12NORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT DUMPLU28-2, Wellbore #1, Design #1 V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
EXISTVERT CARR1, Wellbore #1, Design #1 V0	COYOTETRL33S-20-11CORIGINAL WELLBORE,PROPOSAL 1V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-16NORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT MEKLE28-1, Wellbore #1, Design #1 V0	EXISTVERT GRABER42-33, Wellbore #1, Design #1 V0
COYOTETRL33S-20-5CORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT BOKLER4UN1 2, Wellbore #1, Design #1 V0	EXISTVERT WEBBERHUNT 1, Wellbore #1, Design #1 V0
COYOTETRL33S-20-10NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT KARLWESTCOCK COMM 1, Wellbore #1, Design #1 V0	ABNDVERT HLLSTROM G UN1, Wellbore #1, Design #1 V0
COYOTETRL33S-20-9NORIGINAL WELLBORE,PROPOSAL 1V0	LARROSBEMAD3-10D, Wellbore #1, Wellbore #1 V0	EXISTVERT NORDSTROM2-4, Wellbore #1, Design #1 V0
COYOTETRL33S-20-14CORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER24-34, Wellbore #1, Wellbore #1 V0	EXISTVERT NORDSTROM5-4, Wellbore #1, Design #1 V0
EXISTVERT DUMPLU28-10, Wellbore #1, Design #1 V0	ABNDVERT NIVENGAYLEB1, Wellbore #1, Design #1 V0	ABNDVERT ASHER1, Wellbore #1, Design #1 V0
		ABNDVERT GRABER33-33D, Wellbore #1, Wellbore #1 V0