

EXTRACTION OIL & GAS

Weld County

Sec 28-T1N-R68W

COYOTE TRAILS 33S-20-3N

ORIGINAL WELLBORE

PROPOSAL 1

Anticollision Report

29 November, 2017

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	17,877.44	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 -	1,400.00	1,400.00	71.98	62.39	7.506	CC
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	1,500.00	1,500.02	72.50	62.21	7.047	ES
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	17,877.44	17,878.37	580.30	179.81	1.449	Level 3, SF
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	1,400.00	1,400.00	35.99	26.40	3.753	CC
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	1,500.00	1,499.98	36.53	26.24	3.550	ES
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	17,877.44	18,126.22	390.37	72.08	1.226	Level 2, SF
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	1,300.00	1,300.00	35.99	27.12	4.057	CC
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	17,877.44	17,896.03	290.01	-110.30	0.724	Level 1, ES, SF
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	1,200.00	1,200.00	71.98	63.82	8.826	CC, ES
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	17,877.44	18,179.98	636.05	266.53	1.721	SF
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	1,100.00	1,100.00	107.97	100.53	14.515	CC, ES
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	17,877.44	17,968.67	870.34	470.41	2.176	SF
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	1,000.00	1,000.00	143.96	137.24	21.418	CC, ES
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	17,877.44	18,029.43	1,160.36	760.63	2.903	SF
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	700.00	700.00	197.94	193.37	43.309	CC, ES
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	17,877.44	18,310.06	2,217.53	1,817.44	5.543	SF
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	600.00	600.00	215.94	212.09	56.036	CC, ES
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	17,877.44	18,694.60	2,611.02	2,213.33	6.565	SF
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	500.00	500.00	233.93	230.80	74.581	CC, ES
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	17,877.44	18,664.55	2,977.94	2,577.74	7.441	SF
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	400.00	400.00	251.93	249.51	104.116	CC, ES
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	17,877.44	18,805.34	3,358.12	2,957.33	8.379	SF
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	300.00	300.00	269.92	268.22	158.523	CC, ES
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	17,877.44	19,177.28	3,712.33	3,312.98	9.296	SF
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	200.00	200.00	287.92	286.93	292.067	CC, ES
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	17,877.44	19,192.02	4,118.30	3,716.99	10.262	SF
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	100.00	100.00	305.91	305.65	1,137.844	CC, ES
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	17,877.44	19,347.61	4,493.25	4,091.49	11.184	SF
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	900.00	900.00	161.95	155.95	26.972	CC, ES
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	17,877.44	18,322.08	1,473.53	1,080.03	3.745	SF
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	800.00	800.00	179.95	174.66	34.033	CC, ES
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	17,877.44	18,156.22	1,740.59	1,340.72	4.353	SF
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,400.00	1,400.00	3,757.88	3,725.30	115.360	CC
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,500.00	1,500.02	3,759.56	3,724.63	107.634	ES
EXIST VERT CARR 1 - Wellbore #1 - Design #1	7,700.00	7,575.77	4,865.36	4,685.36	27.030	SF
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,400.00	1,419.00	938.24	905.34	28.520	CC
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,500.00	1,518.98	939.64	904.39	26.656	ES

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-20-3N
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-20-3N	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 28-10 - Wellbore #1 - Design #1	7,500.00	7,416.87	1,902.75	1,726.70	10.808	SF
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,400.00	1,408.00	2,677.70	2,644.99	81.872	CC
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,500.00	1,508.02	2,678.72	2,643.66	76.405	ES
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	7,750.00	7,606.55	3,477.80	3,294.80	19.004	SF
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	6,406.29	6,331.30	1,432.83	1,278.43	9.280	CC
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,350.00	7,266.18	1,436.92	1,259.96	8.120	ES
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,700.00	7,608.24	1,479.68	1,293.91	7.965	SF
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,400.00	1,372.00	3,799.29	3,767.31	118.797	CC
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,500.00	1,471.98	3,800.90	3,766.56	110.701	ES
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	7,650.00	7,506.38	4,856.30	4,677.78	27.204	SF
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,400.00	1,423.00	3,474.66	3,441.65	105.267	CC
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,500.00	1,522.98	3,476.16	3,440.79	98.306	ES
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	7,700.00	7,601.24	4,484.76	4,303.53	24.746	SF
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	2,709.65	2,705.65	641.21	577.34	10.039	CC
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,100.00	3,077.02	645.82	572.73	8.836	ES
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	7,400.00	7,303.04	1,057.81	882.94	6.049	SF
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	4,243.60	4,178.14	182.54	81.92	1.814	CC
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	4,400.00	4,331.46	185.13	80.74	1.773	ES, SF
Sec 33-T1N-R68W						
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	10,700.00	7,178.00	1,063.74	1,013.00	20.967	SF
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,085.85	7,178.00	991.29	947.20	22.485	CC, ES
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	9,954.45	7,768.96	1,363.01	1,143.03	6.196	CC
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,000.00	7,768.96	1,363.77	1,142.96	6.176	ES
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,100.00	7,768.95	1,370.76	1,148.31	6.162	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,437.78	8,091.69	29.89	-50.95	0.370	Level 1, CC, ES, SF
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,195.53	8,060.74	187.21	67.31	1.561	CC, ES, SF

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	11,603.98	7,746.92	2,995.78	2,748.97	12.138	CC
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	11,700.00	7,746.91	2,997.32	2,748.79	12.060	ES
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	12,100.00	7,746.90	3,036.57	2,781.82	11.920	SF
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,108.86	5,503.00	6,837.77	6,653.95	37.198	CC
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,200.00	5,503.00	6,838.38	6,653.06	36.901	ES
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	13,800.00	5,503.00	7,348.29	7,126.48	33.129	SF
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,095.74	7,702.90	6,290.24	6,035.96	24.738	CC
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,200.00	7,702.90	6,291.10	6,034.98	24.563	ES
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	13,900.00	7,702.86	6,543.89	6,262.08	23.221	SF
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	5,780.83	5,145.00	5,545.20	5,418.77	43.857	CC
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	5,800.00	5,145.00	5,545.24	5,418.74	43.838	ES
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	11,300.00	5,145.00	6,618.05	6,449.40	39.242	SF
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,086.94	7,755.00	3,825.89	3,714.60	34.378	CC
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,200.00	7,755.00	3,827.56	3,714.35	33.811	ES
BICKLER 23-34 - Wellbore #1 - Wellbore #1	12,300.00	7,764.54	4,013.58	3,885.45	31.324	SF
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,595.29	7,962.00	3,845.40	3,693.81	25.367	CC
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,700.00	7,962.00	3,846.83	3,693.56	25.098	ES
BICKLER 24-34 - Wellbore #1 - Wellbore #1	13,400.00	7,954.76	3,928.69	3,766.65	24.245	SF
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,495.30	7,642.10	4,603.93	4,506.01	47.021	CC
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,600.00	7,644.32	4,605.12	4,505.40	46.183	ES
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	12,400.00	7,675.34	4,982.25	4,857.85	40.050	SF
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,773.75	7,769.60	4,584.13	4,456.43	35.898	CC
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,900.00	7,769.44	4,585.87	4,455.92	35.289	ES
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	13,300.00	7,767.61	4,831.53	4,682.23	32.361	SF
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	9,907.47	7,809.96	2,860.81	2,640.74	13.000	CC
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,000.00	7,809.96	2,862.31	2,640.65	12.913	ES
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,400.00	7,809.95	2,902.90	2,675.02	12.738	SF
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,059.01	8,042.35	5,696.68	5,498.65	28.767	CC
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,200.00	8,042.78	5,698.42	5,497.90	28.418	ES
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	17,700.00	8,047.34	5,928.32	5,707.05	26.793	SF
Sec 3-T1S-R68W						
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,418.06	7,771.77	4,033.51	3,685.39	11.587	CC
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,500.00	7,771.77	4,034.34	3,684.73	11.539	ES
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,877.44	7,772.00	4,059.51	3,704.04	11.420	SF
Sec 4-T1N-R68W						
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,034.98	5,625.00	2,410.54	2,290.86	20.141	CC, ES
ABND VERT ASHER 1 - Wellbore #1 - Design #1	15,000.00	5,625.00	2,596.53	2,462.24	19.335	SF
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,850.47	7,753.84	1,938.58	1,635.73	6.401	CC
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,900.00	7,753.83	1,939.21	1,635.42	6.383	ES
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	15,000.00	7,753.83	1,944.34	1,638.94	6.367	SF
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,352.41	7,815.77	2,102.33	1,754.48	6.044	CC
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,400.00	7,815.77	2,102.87	1,754.34	6.034	ES
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,500.00	7,815.77	2,107.51	1,757.86	6.028	SF
EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #	16,364.19	7,779.80	413.87	84.09	1.255	Level 3, CC, ES, SF

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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
0.00	0.00	0.00	0.00	0.00	0.00	-89.69	0.39	-71.98	71.98				
100.00	100.00	100.00	100.00	0.13	0.13	-89.69	0.39	-71.98	71.98	71.71	0.27	267.725	
200.00	200.00	200.00	200.00	0.49	0.49	-89.69	0.39	-71.98	71.98	70.99	0.99	73.016	
300.00	300.00	300.00	300.00	0.85	0.85	-89.69	0.39	-71.98	71.98	70.28	1.70	42.272	
400.00	400.00	400.00	400.00	1.21	1.21	-89.69	0.39	-71.98	71.98	69.56	2.42	29.747	
500.00	500.00	500.00	500.00	1.57	1.57	-89.69	0.39	-71.98	71.98	68.84	3.14	22.948	
600.00	600.00	600.00	600.00	1.93	1.93	-89.69	0.39	-71.98	71.98	68.13	3.85	18.678	
700.00	700.00	700.00	700.00	2.29	2.29	-89.69	0.39	-71.98	71.98	67.41	4.57	15.749	
800.00	800.00	800.00	800.00	2.64	2.64	-89.69	0.39	-71.98	71.98	66.69	5.29	13.613	
900.00	900.00	900.00	900.00	3.00	3.00	-89.69	0.39	-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	-89.69	0.39	-71.98	71.98	65.26	6.72	10.709	
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.69	0.39	-71.98	71.98	64.54	7.44	9.677	
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-89.69	0.39	-71.98	71.98	63.82	8.16	8.826	
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-89.69	0.39	-71.98	71.98	63.11	8.87	8.113	
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-89.69	0.39	-71.98	71.98	62.39	9.59	7.506 CC	
1,500.00	1,499.98	1,500.02	1,499.98	5.14	5.15	107.87	0.39	-71.98	72.50	62.21	10.29	7.047 ES	
1,600.00	1,599.84	1,599.84	1,599.84	5.46	5.51	111.67	0.39	-71.98	74.27	63.30	10.97	6.769	
1,700.00	1,699.45	1,699.38	1,699.36	5.80	5.85	116.29	-1.29	-72.34	77.96	66.32	11.64	6.696	
1,800.00	1,798.70	1,799.05	1,798.89	6.14	6.18	120.11	-6.36	-73.44	83.76	71.46	12.30	6.807	
1,900.00	1,897.47	1,898.83	1,898.29	6.49	6.51	123.05	-14.83	-75.27	91.51	78.53	12.98	7.049	
1,969.08	1,965.35	1,967.79	1,966.78	6.75	6.74	124.58	-22.65	-76.96	97.92	84.45	13.46	7.273	
2,000.00	1,995.66	1,998.67	1,997.39	6.86	6.84	125.11	-26.68	-77.84	100.96	87.28	13.68	7.380	
2,100.00	2,093.69	2,098.69	2,096.17	7.25	7.19	125.46	-41.92	-81.13	110.52	96.12	14.40	7.674	
2,200.00	2,191.72	2,201.34	2,194.31	7.65	7.57	124.11	-60.50	-85.15	119.66	104.50	15.16	7.892	
2,300.00	2,289.76	2,301.83	2,291.74	8.07	7.95	122.34	-80.29	-89.44	128.76	112.81	15.94	8.075	
2,400.00	2,387.79	2,402.32	2,389.18	8.49	8.35	120.82	-100.08	-93.72	137.96	121.21	16.75	8.236	
2,500.00	2,485.82	2,502.81	2,486.61	8.91	8.76	119.48	-119.87	-98.00	147.24	129.67	17.57	8.379	
2,600.00	2,583.86	2,603.29	2,584.04	9.35	9.18	118.30	-139.66	-102.28	156.60	138.18	18.41	8.504	
2,700.00	2,681.89	2,703.78	2,681.47	9.79	9.60	117.26	-159.45	-106.57	166.01	146.74	19.27	8.615	
2,800.00	2,779.92	2,804.27	2,778.90	10.24	10.04	116.33	-179.24	-110.85	175.47	155.33	20.14	8.714	
2,900.00	2,877.96	2,904.75	2,876.33	10.69	10.48	115.49	-199.03	-115.13	184.97	163.96	21.02	8.802	
3,000.00	2,975.99	3,005.24	2,973.76	11.14	10.92	114.74	-218.82	-119.42	194.51	172.61	21.90	8.880	
3,100.00	3,074.02	3,105.73	3,071.19	11.60	11.37	114.05	-238.61	-123.70	204.08	181.28	22.80	8.951	
3,200.00	3,172.06	3,206.21	3,168.63	12.06	11.83	113.43	-258.40	-127.98	213.67	189.97	23.70	9.014	
3,300.00	3,270.09	3,306.70	3,266.06	12.52	12.28	112.86	-278.19	-132.26	223.29	198.68	24.61	9.072	
3,400.00	3,368.12	3,407.19	3,363.49	12.98	12.75	112.34	-297.98	-136.55	232.93	207.40	25.53	9.123	
3,500.00	3,466.16	3,492.32	3,460.92	13.45	13.14	111.86	-317.77	-140.83	242.58	216.20	26.38	9.195	
3,600.00	3,564.19	3,608.16	3,558.35	13.92	13.68	111.42	-337.56	-145.11	252.25	224.87	27.38	9.214	
3,700.00	3,662.23	3,708.65	3,655.78	14.39	14.15	111.01	-357.35	-149.39	261.94	233.63	28.31	9.253	
3,800.00	3,760.26	3,809.14	3,753.21	14.86	14.62	110.62	-377.14	-153.68	271.63	242.39	29.24	9.289	
3,900.00	3,858.29	3,909.62	3,850.64	15.34	15.09	110.27	-396.93	-157.96	281.34	251.16	30.18	9.322	
4,000.00	3,956.33	3,989.89	3,948.08	15.81	15.48	109.94	-416.72	-162.24	291.06	260.03	31.03	9.381	
4,100.00	4,054.36	4,089.40	4,045.51	16.29	15.95	109.63	-436.51	-166.52	300.79	268.82	31.96	9.410	
4,200.00	4,152.39	4,188.92	4,142.94	16.77	16.42	109.34	-456.30	-170.81	310.52	277.62	32.91	9.437	
4,300.00	4,250.43	4,288.43	4,240.37	17.25	16.90	109.06	-476.09	-175.09	320.27	286.42	33.85	9.462	
4,400.00	4,348.46	4,387.94	4,337.80	17.73	17.38	108.81	-495.88	-179.37	330.02	295.22	34.79	9.485	
4,500.00	4,446.49	4,487.45	4,435.23	18.21	17.85	108.56	-515.67	-183.65	339.77	304.03	35.74	9.506	
4,600.00	4,544.53	4,586.97	4,532.66	18.69	18.33	108.34	-535.46	-187.94	349.53	312.84	36.69	9.526	
4,700.00	4,642.56	4,686.48	4,630.10	19.17	18.82	108.12	-555.25	-192.22	359.30	321.66	37.64	9.545	
4,800.00	4,740.59	4,785.99	4,727.53	19.65	19.30	107.91	-575.04	-196.50	369.07	330.47	38.60	9.563	
4,900.00	4,838.63	4,885.51	4,824.96	20.13	19.78	107.72	-594.83	-200.78	378.85	339.30	39.55	9.579	
5,000.00	4,936.66	4,985.02	4,922.39	20.62	20.26	107.54	-614.62	-205.07	388.63	348.12	40.50	9.595	

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-20-3N
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-20-3N	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	5,034.69	5,084.53	5,019.82	21.10	20.75	107.36	-634.41	-209.35	398.41	356.95	41.46	9.609		
5,200.00	5,132.73	5,184.05	5,117.25	21.59	21.23	107.19	-654.20	-213.63	408.20	365.78	42.42	9.623		
5,300.00	5,230.76	5,283.56	5,214.68	22.07	21.72	107.03	-673.99	-217.91	417.99	374.61	43.38	9.636		
5,400.00	5,328.79	5,383.07	5,312.11	22.56	22.20	106.88	-693.78	-222.20	427.78	383.44	44.34	9.648		
5,500.00	5,426.83	5,482.59	5,409.55	23.04	22.69	106.74	-713.57	-226.48	437.58	392.28	45.30	9.660		
5,600.00	5,524.86	5,582.10	5,506.98	23.53	23.18	106.60	-733.36	-230.76	447.38	401.12	46.26	9.671		
5,700.00	5,622.89	5,681.61	5,604.41	24.02	23.66	106.47	-753.15	-235.04	457.18	409.96	47.22	9.681		
5,800.00	5,720.93	5,781.12	5,701.84	24.50	24.15	106.34	-772.94	-239.33	466.98	418.80	48.19	9.691		
5,900.00	5,818.96	5,880.64	5,799.27	24.99	24.64	106.22	-792.73	-243.61	476.79	427.64	49.15	9.701		
6,000.00	5,916.99	5,980.15	5,896.70	25.48	25.13	106.10	-812.52	-247.89	486.60	436.48	50.11	9.710		
6,100.00	6,015.03	6,079.66	5,994.13	25.97	25.62	105.99	-832.31	-252.17	496.41	445.33	51.08	9.718		
6,200.00	6,113.06	6,179.18	6,091.57	26.45	26.11	105.88	-852.10	-256.46	506.22	454.17	52.04	9.727		
6,300.00	6,211.09	6,278.69	6,189.00	26.94	26.60	105.77	-871.89	-260.74	516.03	463.02	53.01	9.734		
6,400.00	6,309.13	6,378.20	6,286.43	27.43	27.09	105.67	-891.68	-265.02	525.85	471.87	53.98	9.742		
6,500.00	6,407.16	6,477.72	6,383.86	27.92	27.58	105.58	-911.46	-269.30	535.66	480.72	54.94	9.749		
6,600.00	6,505.19	6,577.23	6,481.29	28.41	28.07	105.49	-931.25	-273.59	545.48	489.57	55.91	9.756		
6,664.73	6,568.65	6,641.64	6,544.36	28.73	28.39	105.43	-944.07	-276.36	551.84	495.30	56.54	9.760		
6,700.00	6,603.27	6,677.98	6,579.97	28.90	28.56	105.45	-951.15	-277.89	555.21	498.32	56.89	9.760		
6,800.00	6,701.84	6,782.05	6,682.42	29.36	29.05	105.51	-969.00	-281.76	563.63	505.79	57.84	9.745		
6,900.00	6,800.94	6,886.35	6,785.69	29.78	29.50	105.56	-983.23	-284.84	570.32	511.60	58.72	9.712		
7,000.00	6,900.45	6,990.83	6,889.60	30.17	29.91	105.60	-993.80	-287.12	575.28	515.75	59.53	9.663		
7,100.00	7,000.24	7,095.44	6,993.97	30.53	30.29	105.62	-1,000.66	-288.61	578.50	518.22	60.27	9.598		
7,200.00	7,100.19	7,200.12	7,098.60	30.85	30.63	105.63	-1,003.79	-289.28	579.96	519.02	60.94	9.517		
7,233.81	7,134.00	7,235.53	7,134.00	30.95	30.73	-90.61	-1,004.01	-289.33	580.06	518.92	61.14	9.487		
7,300.00	7,200.19	7,301.71	7,200.19	31.12	30.91	-90.61	-1,004.01	-289.33	580.06	518.57	61.50	9.432		
7,333.81	7,234.00	7,335.53	7,234.00	31.21	31.00	-90.61	-1,004.01	-289.33	580.06	518.38	61.68	9.405		
7,336.24	7,236.42	7,337.95	7,236.42	31.22	31.01	89.73	-1,004.01	-289.33	580.06	518.37	61.69	9.402		
7,350.00	7,250.18	7,351.64	7,250.11	31.26	31.05	89.73	-1,004.23	-289.33	580.06	518.29	61.78	9.390		
7,400.00	7,300.04	7,401.40	7,299.73	31.44	31.23	89.73	-1,007.79	-289.31	580.06	517.92	62.14	9.335		
7,450.00	7,349.39	7,451.17	7,348.86	31.66	31.45	89.74	-1,015.64	-289.26	580.06	517.48	62.58	9.269		
7,500.00	7,397.87	7,500.94	7,397.12	31.92	31.71	89.74	-1,027.72	-289.19	580.06	516.96	63.11	9.192		
7,550.00	7,445.09	7,550.71	7,444.16	32.22	32.00	89.75	-1,043.94	-289.10	580.06	516.36	63.70	9.106		
7,600.00	7,490.72	7,600.50	7,489.62	32.55	32.34	89.76	-1,064.19	-288.98	580.06	515.69	64.37	9.011		
7,650.00	7,534.38	7,650.29	7,533.17	32.92	32.70	89.77	-1,088.30	-288.83	580.07	514.95	65.12	8.908		
7,700.00	7,575.77	7,700.09	7,574.46	33.32	33.10	89.78	-1,116.12	-288.67	580.07	514.14	65.93	8.799		
7,750.00	7,614.55	7,749.91	7,613.19	33.75	33.54	89.80	-1,147.42	-288.48	580.07	513.27	66.80	8.684		
7,800.00	7,650.43	7,799.73	7,649.07	34.22	34.00	89.82	-1,181.98	-288.28	580.07	512.33	67.74	8.564		
7,850.00	7,683.15	7,849.58	7,681.82	34.71	34.49	89.83	-1,219.53	-288.06	580.07	511.34	68.73	8.440		
7,900.00	7,712.45	7,899.44	7,711.19	35.23	35.01	89.85	-1,259.80	-287.82	580.07	510.29	69.78	8.313		
7,950.00	7,738.11	7,949.32	7,736.96	35.78	35.55	89.87	-1,302.48	-287.57	580.07	509.20	70.88	8.184		
8,000.00	7,759.93	7,999.21	7,758.93	36.35	36.12	89.89	-1,347.26	-287.30	580.07	508.06	72.02	8.055		
8,050.00	7,777.75	8,049.12	7,776.93	36.93	36.70	89.92	-1,393.80	-287.03	580.07	506.88	73.19	7.925		
8,100.00	7,791.43	8,099.06	7,790.81	37.53	37.30	89.94	-1,441.75	-286.75	580.08	505.68	74.40	7.797		
8,150.00	7,800.87	8,149.01	7,800.47	38.14	37.91	89.96	-1,490.74	-286.46	580.08	504.45	75.62	7.670		
8,200.00	7,806.00	8,198.99	7,805.83	38.76	38.53	89.98	-1,540.41	-286.17	580.08	503.22	76.86	7.547		
8,233.89	7,807.00	8,238.34	7,807.00	39.18	39.02	90.00	-1,574.28	-285.97	580.08	502.31	77.78	7.458		
8,300.00	7,807.00	8,301.02	7,807.00	40.00	39.81	90.00	-1,640.38	-285.58	580.08	500.69	79.40	7.306		
8,400.00	7,807.00	8,401.02	7,807.00	41.29	41.09	90.00	-1,740.38	-284.99	580.09	498.11	81.98	7.076		
8,500.00	7,806.99	8,501.02	7,806.99	42.60	42.42	90.00	-1,840.38	-284.39	580.09	495.46	84.63	6.855		
8,600.00	7,806.99	8,601.02	7,806.99	43.95	43.77	90.00	-1,940.38	-283.80	580.10	492.75	87.34	6.641		
8,700.00	7,806.99	8,701.02	7,806.99	45.33	45.16	90.00	-2,040.38	-283.21	580.10	489.98	90.12	6.437		
8,800.00	7,806.99	8,801.02	7,806.99	46.74	46.57	90.00	-2,140.37	-282.62	580.10	487.16	92.94	6.241		

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-20-3N
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-20-3N	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-20-1N - 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			
8,900.00	7,806.98	8,901.02	7,806.98	48.17	48.00	90.00	-2,240.37	-282.03	580.11	484.29	95.82	6.054				
9,000.00	7,806.98	9,001.02	7,806.98	49.62	49.46	90.00	-2,340.37	-281.44	580.11	481.38	98.73	5.875				
9,100.00	7,806.98	9,101.02	7,806.98	51.09	50.93	90.00	-2,440.37	-280.85	580.12	478.42	101.69	5.705				
9,200.00	7,806.98	9,201.02	7,806.98	52.59	52.43	90.00	-2,540.37	-280.26	580.12	475.43	104.69	5.542				
9,300.00	7,806.97	9,301.02	7,806.98	54.09	53.94	90.00	-2,640.36	-279.67	580.13	472.41	107.71	5.386				
9,400.00	7,806.97	9,401.02	7,806.97	55.62	55.47	90.00	-2,740.36	-279.08	580.13	469.36	110.77	5.237				
9,500.00	7,806.97	9,501.02	7,806.97	57.16	57.01	90.00	-2,840.36	-278.49	580.13	466.27	113.86	5.095				
9,600.00	7,806.97	9,601.02	7,806.97	58.71	58.56	90.00	-2,940.36	-277.90	580.14	463.17	116.97	4.960				
9,700.00	7,806.96	9,701.02	7,806.97	60.27	60.13	90.00	-3,040.36	-277.31	580.14	460.03	120.11	4.830				
9,800.00	7,806.96	9,801.02	7,806.96	61.84	61.71	90.00	-3,140.36	-276.72	580.15	456.88	123.27	4.706				
9,900.00	7,806.96	9,901.02	7,806.96	63.43	63.29	90.00	-3,240.35	-276.13	580.15	453.70	126.45	4.588				
10,000.00	7,806.96	10,001.02	7,806.96	65.02	64.89	90.00	-3,340.35	-275.54	580.15	450.51	129.65	4.475				
10,100.00	7,806.95	10,101.02	7,806.96	66.63	66.50	90.00	-3,440.35	-274.95	580.16	447.30	132.86	4.367				
10,200.00	7,806.95	10,201.02	7,806.95	68.24	68.11	90.00	-3,540.35	-274.36	580.16	444.07	136.10	4.263				
10,300.00	7,806.95	10,301.02	7,806.95	69.86	69.74	90.00	-3,640.35	-273.77	580.17	440.82	139.34	4.164				
10,400.00	7,806.95	10,401.02	7,806.95	71.49	71.37	90.00	-3,740.35	-273.18	580.17	437.56	142.61	4.068				
10,500.00	7,806.94	10,501.02	7,806.95	73.12	73.00	90.00	-3,840.34	-272.59	580.18	434.29	145.88	3.977				
10,600.00	7,806.94	10,601.02	7,806.94	74.76	74.65	90.00	-3,940.34	-272.00	580.18	431.01	149.17	3.889				
10,700.00	7,806.94	10,701.02	7,806.94	76.41	76.29	90.00	-4,040.34	-271.41	580.18	427.71	152.47	3.805				
10,800.00	7,806.94	10,801.02	7,806.94	78.06	77.95	90.00	-4,140.34	-270.82	580.19	424.41	155.78	3.724				
10,900.00	7,806.93	10,901.02	7,806.94	79.72	79.61	90.00	-4,240.34	-270.23	580.19	421.09	159.10	3.647				
11,000.00	7,806.93	11,001.02	7,806.94	81.38	81.27	90.00	-4,340.34	-269.64	580.20	417.77	162.43	3.572				
11,100.00	7,806.93	11,101.02	7,806.93	83.05	82.94	90.00	-4,440.33	-269.05	580.20	414.43	165.77	3.500				
11,200.00	7,806.93	11,201.02	7,806.93	84.72	84.61	90.00	-4,540.33	-268.46	580.21	411.09	169.12	3.431				
11,300.00	7,806.92	11,301.02	7,806.93	86.39	86.29	90.00	-4,640.33	-267.87	580.21	407.74	172.47	3.364				
11,400.00	7,806.92	11,398.98	7,806.93	88.07	87.94	90.00	-4,740.33	-267.28	580.21	404.41	175.80	3.300				
11,500.00	7,806.92	11,501.02	7,806.92	89.75	89.65	90.00	-4,840.33	-266.69	580.22	401.01	179.21	3.238				
11,600.00	7,806.92	11,601.02	7,806.92	91.44	91.34	90.00	-4,940.32	-266.10	580.22	397.64	182.58	3.178				
11,700.00	7,806.91	11,701.02	7,806.92	93.13	93.03	90.00	-5,040.32	-265.51	580.23	394.26	185.97	3.120				
11,800.00	7,806.91	11,801.02	7,806.92	94.82	94.73	90.00	-5,140.32	-264.92	580.23	390.87	189.36	3.064				
11,900.00	7,806.91	11,901.02	7,806.91	96.52	96.42	90.00	-5,240.32	-264.33	580.23	387.48	192.75	3.010				
12,000.00	7,806.91	12,001.02	7,806.91	98.21	98.12	90.00	-5,340.32	-263.74	580.24	384.09	196.15	2.958				
12,100.00	7,806.90	12,101.02	7,806.91	99.91	99.82	90.00	-5,440.32	-263.15	580.24	380.69	199.56	2.908				
12,200.00	7,806.90	12,201.02	7,806.91	101.62	101.53	90.00	-5,540.31	-262.56	580.25	377.28	202.97	2.859				
12,300.00	7,806.90	12,301.02	7,806.90	103.32	103.23	90.00	-5,640.31	-261.97	580.25	373.87	206.38	2.812				
12,400.00	7,806.90	12,401.02	7,806.90	105.03	104.94	90.00	-5,740.31	-261.38	580.26	370.45	209.80	2.766				
12,500.00	7,806.89	12,501.02	7,806.90	106.74	106.65	90.00	-5,840.31	-260.79	580.26	367.04	213.22	2.721				
12,600.00	7,806.89	12,601.02	7,806.90	108.45	108.37	90.00	-5,940.31	-260.20	580.26	363.61	216.65	2.678				
12,700.00	7,806.89	12,701.02	7,806.90	110.17	110.08	90.00	-6,040.31	-259.61	580.27	360.19	220.08	2.637				
12,800.00	7,806.89	12,801.02	7,806.89	111.88	111.80	90.00	-6,140.30	-259.02	580.27	356.75	223.52	2.596				
12,900.00	7,806.88	12,901.02	7,806.89	113.60	113.52	90.00	-6,240.30	-258.43	580.28	353.32	226.96	2.557				
13,000.00	7,806.88	13,001.02	7,806.89	115.32	115.24	90.00	-6,340.30	-257.84	580.28	349.88	230.40	2.519				
13,100.00	7,806.88	13,101.02	7,806.89	117.04	116.96	90.00	-6,440.30	-257.25	580.28	346.44	233.84	2.482				
13,200.00	7,806.88	13,201.02	7,806.88	118.76	118.68	90.00	-6,540.30	-256.66	580.29	343.00	237.29	2.445				
13,300.00	7,806.87	13,301.02	7,806.88	120.48	120.41	90.00	-6,640.30	-256.07	580.29	339.55	240.74	2.410				
13,400.00	7,806.87	13,401.02	7,806.88	122.21	122.13	90.00	-6,740.29	-255.48	580.30	336.10	244.19	2.376				
13,500.00	7,806.87	13,501.02	7,806.88	123.94	123.86	90.00	-6,840.29	-254.89	580.30	332.65	247.65	2.343				
13,600.00	7,806.87	13,601.02	7,806.87	125.66	125.59	90.00	-6,940.29	-254.30	580.31	329.20	251.11	2.311				
13,700.00	7,806.86	13,701.02	7,806.87	127.39	127.32	90.00	-7,040.29	-253.71	580.31	325.74	254.57	2.280				
13,800.00	7,806.86	13,801.02	7,806.87	129.12	129.05	90.00	-7,140.29	-253.12	580.31	322.28	258.03	2.249				
13,900.00	7,806.86	13,901.02	7,806.87	130.85	130.78	90.00	-7,240.28	-252.53	580.32	318.82	261.50	2.219				
14,000.00	7,806.86	14,001.02	7,806.86	132.59	132.52	90.00	-7,340.28	-251.94	580.32	315.36	264.96	2.190				

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-20-3N
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-20-3N	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	7,806.85	14,101.02	7,806.86	134.32	134.25	90.00	-7,440.28	-251.35	580.33	311.89	268.43	2.162	
14,200.00	7,806.85	14,201.02	7,806.86	136.06	135.99	90.00	-7,540.28	-250.76	580.33	308.43	271.91	2.134	
14,300.00	7,806.85	14,301.02	7,806.86	137.79	137.72	90.00	-7,640.28	-250.17	580.34	304.96	275.38	2.107	
14,400.00	7,806.85	14,401.02	7,806.86	139.53	139.46	90.00	-7,740.28	-249.58	580.34	301.48	278.85	2.081	
14,500.00	7,806.84	14,501.02	7,806.85	141.27	141.20	90.00	-7,840.27	-248.99	580.34	298.01	282.33	2.056	
14,600.00	7,806.84	14,601.02	7,806.85	143.00	142.94	90.00	-7,940.27	-248.40	580.35	294.54	285.81	2.031	
14,700.00	7,806.84	14,701.02	7,806.85	144.74	144.68	90.00	-8,040.27	-247.81	580.35	291.06	289.29	2.006	
14,800.00	7,806.84	14,801.02	7,806.85	146.48	146.42	90.00	-8,140.27	-247.22	580.36	287.58	292.77	1.982	
14,900.00	7,806.83	14,901.02	7,806.84	148.22	148.16	90.00	-8,240.27	-246.63	580.36	284.10	296.26	1.959	
15,000.00	7,806.83	15,001.02	7,806.84	149.97	149.90	90.00	-8,340.27	-246.04	580.36	280.62	299.74	1.936	
15,100.00	7,806.83	15,101.02	7,806.84	151.71	151.64	90.00	-8,440.26	-245.45	580.37	277.14	303.23	1.914	
15,200.00	7,806.83	15,201.02	7,806.84	153.45	153.39	90.00	-8,540.26	-244.86	580.37	273.66	306.72	1.892	
15,300.00	7,806.82	15,301.02	7,806.83	155.19	155.13	90.00	-8,640.26	-244.27	580.38	270.17	310.21	1.871	
15,400.00	7,806.82	15,401.02	7,806.83	156.94	156.88	90.00	-8,740.26	-243.68	580.38	266.68	313.70	1.850	
15,500.00	7,806.82	15,501.02	7,806.83	158.68	158.62	90.00	-8,840.26	-243.09	580.39	263.20	317.19	1.830	
15,600.00	7,806.82	15,601.02	7,806.83	160.43	160.37	90.00	-8,940.26	-242.50	580.39	259.71	320.68	1.810	
15,700.00	7,806.81	15,701.02	7,806.82	162.18	162.11	90.00	-9,040.25	-241.91	580.39	256.22	324.18	1.790	
15,800.00	7,806.81	15,801.02	7,806.82	163.92	163.86	90.00	-9,140.25	-241.32	580.40	252.73	327.67	1.771	
15,900.00	7,806.81	15,901.02	7,806.82	165.67	165.61	90.00	-9,240.25	-240.73	580.40	249.24	331.17	1.753	
16,000.00	7,806.81	16,001.02	7,806.82	167.42	167.36	90.00	-9,340.25	-240.13	580.41	245.74	334.66	1.734	
16,100.00	7,806.80	16,101.02	7,806.82	169.17	169.11	90.00	-9,440.25	-239.54	580.41	242.25	338.16	1.716	
16,200.00	7,806.80	16,201.02	7,806.81	170.91	170.86	90.00	-9,540.24	-238.95	580.41	238.75	341.66	1.699	
16,300.00	7,806.80	16,301.02	7,806.81	172.66	172.61	90.00	-9,640.24	-238.36	580.42	235.26	345.16	1.682	
16,400.00	7,806.80	16,401.02	7,806.81	174.41	174.36	90.00	-9,740.24	-237.77	580.42	231.76	348.66	1.665	
16,500.00	7,806.79	16,501.02	7,806.81	176.16	176.11	90.00	-9,840.24	-237.18	580.43	228.26	352.17	1.648	
16,600.00	7,806.79	16,601.02	7,806.80	177.92	177.86	90.00	-9,940.24	-236.59	580.43	224.76	355.67	1.632	
16,700.00	7,806.79	16,701.02	7,806.80	179.67	179.61	90.00	-10,040.24	-236.00	580.44	221.26	359.17	1.616	
16,800.00	7,806.79	16,801.02	7,806.80	181.42	181.36	90.00	-10,140.23	-235.41	580.44	217.76	362.68	1.600	
16,900.00	7,806.78	16,901.02	7,806.80	183.17	183.12	90.00	-10,240.23	-234.82	580.44	214.26	366.18	1.585	
17,000.00	7,806.78	17,001.02	7,806.79	184.92	184.87	90.00	-10,340.23	-234.23	580.45	210.76	369.69	1.570	
17,100.00	7,806.78	17,101.02	7,806.79	186.68	186.62	90.00	-10,440.23	-233.64	580.45	207.25	373.20	1.555	
17,200.00	7,806.78	17,201.02	7,806.79	188.43	188.38	90.00	-10,540.23	-233.05	580.46	203.75	376.71	1.541	
17,300.00	7,806.77	17,301.02	7,806.79	190.18	190.13	90.00	-10,640.23	-232.46	580.46	200.25	380.21	1.527	
17,400.00	7,806.77	17,401.02	7,806.78	191.94	191.88	90.00	-10,740.22	-231.87	580.46	196.74	383.72	1.513	
17,500.00	7,806.77	17,501.02	7,806.78	193.69	193.64	90.00	-10,840.22	-231.28	580.47	193.24	387.23	1.499 Level 3	
17,600.00	7,806.77	17,601.02	7,806.78	195.45	195.39	90.00	-10,940.22	-230.69	580.47	189.73	390.74	1.486 Level 3	
17,700.00	7,806.76	17,701.02	7,806.78	197.20	197.15	90.00	-11,040.22	-230.10	580.48	186.22	394.26	1.472 Level 3	
17,800.00	7,806.76	17,798.98	7,806.78	198.96	198.87	90.00	-11,140.22	-229.51	580.48	182.75	397.73	1.459 Level 3	
17,877.44	7,807.00	17,878.37	7,807.02	200.32	200.26	90.00	-11,219.61	-228.78	580.30	179.81	400.49	1.449 Level 3, SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	133.868		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.20	-35.99	35.99	35.01	0.99	36.509		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.20	-35.99	35.99	34.29	1.70	21.137		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.20	-35.99	35.99	33.57	2.42	14.874		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.20	-35.99	35.99	32.85	3.14	11.474		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.20	-35.99	35.99	32.14	3.85	9.340		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.20	-35.99	35.99	31.42	4.57	7.875		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.20	-35.99	35.99	30.70	5.29	6.807		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.20	-35.99	35.99	29.99	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	5.355		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.68	0.20	-35.99	35.99	28.55	7.44	4.839		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-89.68	0.20	-35.99	35.99	27.84	8.16	4.413		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-89.68	0.20	-35.99	35.99	27.12	8.87	4.057		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	4.79	-89.68	0.20	-35.99	35.99	26.40	9.59	3.753 CC		
1,500.00	1,499.98	1,499.98	1,499.98	5.14	5.15	109.18	0.20	-35.99	36.53	26.24	10.29	3.550 ES		
1,600.00	1,599.84	1,600.09	1,600.07	5.46	5.49	113.96	-1.55	-35.93	38.23	27.27	10.95	3.490		
1,700.00	1,699.45	1,700.30	1,700.13	5.80	5.82	117.85	-6.79	-35.73	40.97	29.36	11.61	3.529		
1,800.00	1,798.70	1,800.60	1,800.05	6.14	6.15	120.76	-15.55	-35.42	44.67	32.39	12.28	3.638		
1,900.00	1,897.47	1,900.99	1,899.68	6.49	6.49	122.75	-27.80	-34.97	49.22	36.26	12.96	3.798		
1,969.08	1,965.35	1,970.38	1,968.26	6.75	6.74	123.65	-38.30	-34.58	52.84	39.39	13.45	3.930		
2,000.00	1,995.66	2,001.45	1,998.89	6.86	6.84	123.83	-43.54	-34.39	54.49	40.82	13.67	3.987		
2,100.00	2,093.69	2,101.51	2,097.27	7.25	7.21	123.10	-61.77	-33.73	59.35	44.94	14.41	4.120		
2,200.00	2,191.72	2,201.39	2,195.45	7.65	7.59	122.37	-80.09	-33.06	64.18	49.01	15.17	4.230		
2,300.00	2,289.76	2,301.27	2,293.64	8.07	7.98	121.74	-98.42	-32.39	69.02	53.06	15.96	4.326		
2,400.00	2,387.79	2,401.15	2,391.82	8.49	8.38	121.20	-116.74	-31.72	73.86	57.11	16.76	4.408		
2,500.00	2,485.82	2,501.03	2,490.00	8.91	8.79	120.72	-135.06	-31.05	78.71	61.14	17.57	4.479		
2,600.00	2,583.86	2,600.91	2,588.19	9.35	9.20	120.30	-153.38	-30.38	83.57	65.17	18.40	4.541		
2,700.00	2,681.89	2,700.79	2,666.37	9.79	9.62	119.92	-171.71	-29.71	88.43	69.19	19.24	4.595		
2,800.00	2,779.92	2,800.67	2,784.55	10.24	10.05	119.58	-190.03	-29.05	93.29	73.20	20.10	4.643		
2,900.00	2,877.96	2,900.55	2,882.74	10.69	10.48	119.28	-208.35	-28.38	98.16	77.21	20.96	4.684		
3,000.00	2,975.99	3,000.43	2,980.92	11.14	10.91	119.00	-226.67	-27.71	103.03	81.21	21.82	4.721		
3,100.00	3,074.02	3,100.31	3,079.10	11.60	11.35	118.75	-245.00	-27.04	107.90	85.20	22.70	4.754		
3,200.00	3,172.06	3,200.19	3,177.28	12.06	11.79	118.52	-263.32	-26.37	112.77	89.20	23.58	4.783		
3,300.00	3,270.09	3,300.07	3,275.47	12.52	12.24	118.31	-281.64	-25.70	117.65	93.18	24.47	4.809		
3,400.00	3,368.12	3,400.05	3,373.65	12.98	12.68	118.12	-299.97	-25.03	122.53	97.17	25.36	4.832		
3,500.00	3,466.16	3,500.17	3,471.83	13.45	13.13	117.94	-318.29	-24.36	127.40	101.15	26.25	4.853		
3,600.00	3,564.19	3,600.29	3,570.02	13.92	13.58	117.78	-336.61	-23.69	132.28	105.13	27.16	4.871		
3,700.00	3,662.23	3,700.41	3,668.20	14.39	14.04	117.63	-354.93	-23.03	137.16	109.10	28.06	4.888		
3,800.00	3,760.26	3,800.53	3,766.38	14.86	14.49	117.48	-373.26	-22.36	142.04	113.07	28.97	4.903		
3,900.00	3,858.29	3,900.65	3,864.56	15.34	14.95	117.35	-391.58	-21.69	146.92	117.04	29.88	4.917		
4,000.00	3,956.33	4,000.77	3,962.75	15.81	15.40	117.22	-409.90	-21.02	151.81	121.01	30.79	4.930		
4,100.00	4,054.36	4,100.89	4,060.93	16.29	15.86	117.11	-428.22	-20.35	156.69	124.98	31.71	4.941		
4,200.00	4,152.39	4,201.01	4,159.11	16.77	16.32	117.00	-446.55	-19.68	161.57	128.94	32.63	4.952		
4,300.00	4,250.43	4,301.13	4,257.30	17.25	16.79	116.89	-464.87	-19.01	166.46	132.91	33.55	4.962		
4,400.00	4,348.46	4,401.25	4,355.48	17.73	17.25	116.80	-483.19	-18.34	171.34	136.87	34.47	4.970		
4,500.00	4,446.49	4,501.37	4,453.66	18.21	17.71	116.70	-501.51	-17.67	176.23	140.83	35.40	4.979		
4,600.00	4,544.53	4,598.51	4,551.85	18.69	18.16	116.62	-519.84	-17.01	181.11	144.80	36.31	4.988		
4,700.00	4,642.56	4,701.61	4,650.03	19.17	18.64	116.53	-538.16	-16.34	186.00	148.75	37.25	4.993		
4,800.00	4,740.59	4,801.73	4,748.21	19.65	19.11	116.46	-556.48	-15.67	190.88	152.70	38.18	5.000		
4,900.00	4,838.63	4,901.85	4,846.39	20.13	19.57	116.38	-574.81	-15.00	195.77	156.66	39.11	5.006		
5,000.00	4,936.66	5,001.97	4,944.58	20.62	20.04	116.31	-593.13	-14.33	200.66	160.62	40.04	5.011		

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-20-3N
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-20-3N	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	5,034.69	5,102.09	5,042.76	21.10	20.51	116.24	-611.45	-13.66	205.55	164.57	40.98	5.016		
5,200.00	5,132.73	5,202.21	5,140.94	21.59	20.97	116.18	-629.77	-12.99	210.43	168.52	41.91	5.021		
5,300.00	5,230.76	5,302.33	5,239.13	22.07	21.44	116.12	-648.10	-12.32	215.32	172.48	42.85	5.026		
5,400.00	5,328.79	5,402.45	5,337.31	22.56	21.91	116.06	-666.42	-11.65	220.21	176.43	43.78	5.030		
5,500.00	5,426.83	5,502.57	5,435.49	23.04	22.38	116.00	-684.74	-10.98	225.10	180.38	44.72	5.034		
5,600.00	5,524.86	5,602.69	5,533.68	23.53	22.85	115.95	-703.06	-10.32	229.98	184.33	45.66	5.037		
5,700.00	5,622.89	5,702.81	5,631.86	24.02	23.32	115.90	-721.39	-9.65	234.87	188.28	46.59	5.041		
5,800.00	5,720.93	5,802.93	5,730.04	24.50	23.79	115.85	-739.71	-8.98	239.76	192.23	47.53	5.044		
5,900.00	5,818.96	5,896.95	5,828.22	24.99	24.23	115.80	-758.03	-8.31	244.65	196.21	48.44	5.050		
6,000.00	5,916.99	5,996.83	5,926.41	25.48	24.70	115.76	-776.35	-7.64	249.54	200.16	49.38	5.053		
6,100.00	6,015.03	6,103.29	6,024.59	25.97	25.20	115.71	-794.68	-6.97	254.43	204.07	50.36	5.053		
6,200.00	6,113.06	6,203.41	6,122.77	26.45	25.68	115.67	-813.00	-6.30	259.32	208.02	51.30	5.055		
6,300.00	6,211.09	6,303.53	6,220.96	26.94	26.15	115.63	-831.32	-5.63	264.21	211.97	52.24	5.058		
6,400.00	6,309.13	6,403.65	6,319.14	27.43	26.62	115.59	-849.65	-4.96	269.10	215.92	53.18	5.060		
6,500.00	6,407.16	6,503.77	6,417.32	27.92	27.09	115.55	-867.97	-4.30	273.99	219.86	54.13	5.062		
6,600.00	6,505.19	6,603.89	6,515.50	28.41	27.57	115.52	-886.29	-3.63	278.88	223.81	55.07	5.064		
6,664.73	6,568.65	6,660.77	6,579.06	28.73	27.83	115.49	-898.15	-3.19	282.04	226.40	55.64	5.069		
6,700.00	6,603.27	6,704.00	6,613.69	28.90	28.04	115.47	-904.61	-2.96	283.67	227.66	56.01	5.064		
6,800.00	6,701.84	6,804.11	6,711.88	29.36	28.51	114.97	-922.94	-2.29	287.30	230.32	56.98	5.042		
6,900.00	6,800.94	6,904.32	6,809.98	29.78	28.99	113.83	-941.24	-1.62	289.53	231.57	57.96	4.995		
7,000.00	6,900.45	6,994.70	6,907.37	30.17	29.41	112.12	-959.15	-0.97	290.59	231.69	58.90	4.934		
7,100.00	7,000.24	7,093.03	7,004.53	30.53	29.85	110.33	-974.21	-0.42	291.01	231.20	59.81	4.866		
7,200.00	7,100.19	7,191.69	7,102.48	30.85	30.25	108.55	-985.97	0.01	290.88	230.23	60.64	4.796		
7,233.81	7,134.00	7,225.12	7,135.75	30.95	30.38	-88.29	-989.18	0.13	290.71	229.80	60.90	4.773		
7,300.00	7,200.19	7,290.72	7,201.14	31.12	30.63	-89.31	-994.37	0.32	290.40	229.03	61.38	4.731		
7,333.81	7,234.00	7,324.31	7,234.67	31.21	30.75	-89.72	-996.44	0.39	290.31	228.70	61.61	4.712		
7,350.00	7,250.18	7,340.42	7,250.76	31.26	30.80	90.50	-997.30	0.43	290.28	228.56	61.72	4.703		
7,397.68	7,297.74	7,387.87	7,298.17	31.43	30.97	90.76	-999.29	0.50	290.23	228.19	62.04	4.678		
7,400.00	7,300.04	7,390.17	7,300.46	31.44	30.97	90.80	-999.37	0.50	290.23	228.18	62.05	4.677		
7,450.00	7,349.39	7,439.42	7,349.70	31.66	31.13	92.09	-1,000.57	0.55	290.36	228.00	62.36	4.656		
7,500.00	7,397.87	7,487.59	7,397.87	31.92	31.27	94.26	-1,000.93	0.56	291.03	228.41	62.62	4.647		
7,550.00	7,445.09	7,534.82	7,445.09	32.22	31.40	97.11	-1,000.93	0.56	292.76	229.95	62.81	4.661		
7,600.00	7,490.72	7,580.44	7,490.72	32.55	31.52	100.37	-1,000.93	0.56	296.17	233.26	62.90	4.708		
7,650.00	7,534.38	7,630.74	7,540.97	32.92	31.69	104.15	-1,002.78	0.57	301.55	238.54	63.01	4.786		
7,700.00	7,575.77	7,684.04	7,593.82	33.32	31.92	107.87	-1,009.52	0.61	308.47	245.33	63.14	4.885		
7,750.00	7,614.55	7,740.19	7,648.57	33.75	32.20	111.45	-1,021.89	0.68	316.71	253.42	63.29	5.004		
7,800.00	7,650.43	7,799.56	7,704.84	34.22	32.55	114.87	-1,040.73	0.79	325.98	262.58	63.40	5.141		
7,850.00	7,683.15	7,862.54	7,762.06	34.71	32.98	118.09	-1,066.97	0.95	335.94	272.51	63.44	5.296		
7,900.00	7,712.45	7,929.51	7,819.36	35.23	33.49	121.09	-1,101.57	1.15	346.21	282.88	63.34	5.466		
7,950.00	7,738.11	8,000.80	7,875.47	35.78	34.10	123.82	-1,145.47	1.41	356.36	293.29	63.07	5.650		
8,000.00	7,759.93	8,076.61	7,928.66	36.35	34.82	126.25	-1,199.40	1.73	365.92	303.27	62.65	5.841		
8,050.00	7,777.75	8,156.93	7,976.74	36.93	35.65	128.31	-1,263.67	2.11	374.45	312.32	62.13	6.027		
8,100.00	7,791.43	8,241.48	8,017.11	37.53	36.59	129.97	-1,337.86	2.55	381.50	319.85	61.65	6.188		
8,150.00	7,800.87	8,329.58	8,047.11	38.14	37.62	131.15	-1,420.60	3.04	386.66	325.26	61.40	6.297		
8,200.00	7,806.00	8,420.17	8,064.36	38.76	38.72	131.82	-1,509.44	3.57	389.62	328.01	61.61	6.324		
8,233.89	7,807.00	8,482.32	8,067.99	39.18	39.48	131.97	-1,571.45	3.94	390.28	328.15	62.12	6.282		
8,300.00	7,807.00	8,549.55	8,068.00	40.00	40.32	131.97	-1,638.68	4.34	390.28	326.90	63.38	6.158		
8,400.00	7,807.00	8,649.55	8,068.00	41.29	41.60	131.97	-1,738.68	4.93	390.28	324.95	65.33	5.974		
8,500.00	7,806.99	8,749.55	8,067.99	42.60	42.91	131.97	-1,838.68	5.52	390.28	322.93	67.35	5.795		
8,600.00	7,806.99	8,849.55	8,067.99	43.95	44.26	131.97	-1,938.68	6.11	390.28	320.86	69.42	5.622		
8,700.00	7,806.99	8,949.55	8,067.99	45.33	45.63	131.97	-2,038.68	6.70	390.29	318.74	71.55	5.455		
8,800.00	7,806.99	9,049.55	8,067.99	46.74	47.03	131.97	-2,138.68	7.30	390.29	316.56	73.72	5.294		

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-20-3N
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-20-3N	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	7,806.98	9,149.55	8,067.98	48.17	48.46	131.97	-2,238.67	7.89	390.29	314.35	75.94	5.139		
9,000.00	7,806.98	9,249.55	8,067.98	49.62	49.90	131.97	-2,338.67	8.48	390.29	312.09	78.20	4.991		
9,100.00	7,806.98	9,349.55	8,067.98	51.09	51.37	131.97	-2,438.67	9.07	390.29	309.79	80.50	4.849		
9,200.00	7,806.98	9,449.55	8,067.98	52.59	52.86	131.97	-2,538.67	9.67	390.29	307.47	82.83	4.712		
9,300.00	7,806.97	9,549.55	8,067.97	54.09	54.36	131.97	-2,638.67	10.26	390.29	305.11	85.19	4.582		
9,400.00	7,806.97	9,649.55	8,067.97	55.62	55.88	131.97	-2,738.66	10.85	390.30	302.72	87.58	4.457		
9,500.00	7,806.97	9,749.55	8,067.97	57.16	57.41	131.97	-2,838.66	11.44	390.30	300.31	89.99	4.337		
9,600.00	7,806.97	9,849.55	8,067.97	58.71	58.96	131.97	-2,938.66	12.04	390.30	297.87	92.43	4.223		
9,700.00	7,806.96	9,949.55	8,067.96	60.27	60.52	131.97	-3,038.66	12.63	390.30	295.41	94.89	4.113		
9,800.00	7,806.96	10,049.55	8,067.96	61.84	62.09	131.97	-3,138.66	13.22	390.30	292.93	97.37	4.008		
9,900.00	7,806.96	10,149.55	8,067.96	63.43	63.67	131.97	-3,238.66	13.81	390.30	290.43	99.87	3.908		
10,000.00	7,806.96	10,249.55	8,067.96	65.02	65.26	131.97	-3,338.65	14.40	390.31	287.91	102.39	3.812		
10,100.00	7,806.95	10,349.55	8,067.95	66.63	66.87	131.97	-3,438.65	15.00	390.31	285.38	104.93	3.720		
10,200.00	7,806.95	10,449.55	8,067.95	68.24	68.47	131.97	-3,538.65	15.59	390.31	282.83	107.48	3.631		
10,300.00	7,806.95	10,549.55	8,067.95	69.86	70.09	131.97	-3,638.65	16.18	390.31	280.27	110.04	3.547		
10,400.00	7,806.95	10,649.55	8,067.95	71.49	71.72	131.97	-3,738.65	16.77	390.31	277.69	112.62	3.466		
10,500.00	7,806.94	10,749.55	8,067.94	73.12	73.35	131.97	-3,838.65	17.37	390.31	275.10	115.21	3.388		
10,600.00	7,806.94	10,849.55	8,067.94	74.76	74.99	131.97	-3,938.64	17.96	390.31	272.50	117.81	3.313		
10,700.00	7,806.94	10,949.55	8,067.94	76.41	76.63	131.97	-4,038.64	18.55	390.32	269.89	120.43	3.241		
10,800.00	7,806.94	11,049.55	8,067.94	78.06	78.28	131.97	-4,138.64	19.14	390.32	267.27	123.05	3.172		
10,900.00	7,806.93	11,149.55	8,067.93	79.72	79.93	131.97	-4,238.64	19.74	390.32	264.64	125.68	3.106		
11,000.00	7,806.93	11,249.55	8,067.93	81.38	81.59	131.97	-4,338.64	20.33	390.32	262.00	128.32	3.042		
11,100.00	7,806.93	11,349.55	8,067.93	83.05	83.26	131.97	-4,438.63	20.92	390.32	259.35	130.97	2.980		
11,200.00	7,806.93	11,449.55	8,067.93	84.72	84.93	131.96	-4,538.63	21.51	390.32	256.69	133.63	2.921		
11,300.00	7,806.92	11,549.55	8,067.92	86.39	86.60	131.96	-4,638.63	22.10	390.32	254.03	136.30	2.864		
11,400.00	7,806.92	11,649.55	8,067.92	88.07	88.28	131.96	-4,738.63	22.70	390.33	251.36	138.97	2.809		
11,500.00	7,806.92	11,749.55	8,067.92	89.75	89.96	131.96	-4,838.63	23.29	390.33	248.68	141.65	2.756		
11,600.00	7,806.92	11,849.55	8,067.92	91.44	91.64	131.96	-4,938.63	23.88	390.33	246.00	144.33	2.704		
11,700.00	7,806.91	11,949.55	8,067.91	93.13	93.33	131.96	-5,038.62	24.47	390.33	243.31	147.02	2.655		
11,800.00	7,806.91	12,049.55	8,067.91	94.82	95.02	131.96	-5,138.62	25.07	390.33	240.62	149.72	2.607		
11,900.00	7,806.91	12,149.55	8,067.91	96.52	96.72	131.96	-5,238.62	25.66	390.33	237.92	152.42	2.561		
12,000.00	7,806.91	12,249.55	8,067.91	98.21	98.41	131.96	-5,338.62	26.25	390.34	235.21	155.12	2.516		
12,100.00	7,806.90	12,349.55	8,067.90	99.91	100.11	131.96	-5,438.62	26.84	390.34	232.50	157.83	2.473		
12,200.00	7,806.90	12,449.55	8,067.90	101.62	101.81	131.96	-5,538.62	27.44	390.34	229.79	160.55	2.431		
12,300.00	7,806.90	12,549.55	8,067.90	103.32	103.52	131.96	-5,638.61	28.03	390.34	227.07	163.27	2.391		
12,400.00	7,806.90	12,649.55	8,067.90	105.03	105.22	131.96	-5,738.61	28.62	390.34	224.35	165.99	2.352		
12,500.00	7,806.89	12,749.55	8,067.89	106.74	106.93	131.96	-5,838.61	29.21	390.34	221.62	168.72	2.314		
12,600.00	7,806.89	12,849.55	8,067.89	108.45	108.64	131.96	-5,938.61	29.80	390.34	218.89	171.45	2.277		
12,700.00	7,806.89	12,949.55	8,067.89	110.17	110.36	131.96	-6,038.61	30.40	390.35	216.16	174.19	2.241		
12,800.00	7,806.89	13,049.55	8,067.89	111.88	112.07	131.96	-6,138.61	30.99	390.35	213.42	176.92	2.206		
12,900.00	7,806.88	13,149.55	8,067.88	113.60	113.79	131.96	-6,238.60	31.58	390.35	210.68	179.67	2.173		
13,000.00	7,806.88	13,249.55	8,067.88	115.32	115.50	131.96	-6,338.60	32.17	390.35	207.94	182.41	2.140		
13,100.00	7,806.88	13,349.55	8,067.88	117.04	117.22	131.96	-6,438.60	32.77	390.35	205.19	185.16	2.108		
13,200.00	7,806.88	13,449.55	8,067.88	118.76	118.94	131.96	-6,538.60	33.36	390.35	202.45	187.91	2.077		
13,300.00	7,806.87	13,549.55	8,067.87	120.48	120.67	131.96	-6,638.60	33.95	390.35	199.69	190.66	2.047		
13,400.00	7,806.87	13,649.55	8,067.87	122.21	122.39	131.96	-6,738.59	34.54	390.36	196.94	193.42	2.018		
13,500.00	7,806.87	13,749.55	8,067.87	123.94	124.12	131.96	-6,838.59	35.13	390.36	194.18	196.17	1.990		
13,600.00	7,806.87	13,849.55	8,067.87	125.66	125.84	131.96	-6,938.59	35.73	390.36	191.43	198.93	1.962		
13,700.00	7,806.86	13,949.55	8,067.86	127.39	127.57	131.96	-7,038.59	36.32	390.36	188.66	201.70	1.935		
13,800.00	7,806.86	14,049.55	8,067.86	129.12	129.30	131.96	-7,138.59	36.91	390.36	185.90	204.46	1.909		
13,900.00	7,806.86	14,149.55	8,067.86	130.85	131.03	131.96	-7,238.59	37.50	390.36	183.14	207.23	1.884		
14,000.00	7,806.86	14,249.55	8,067.86	132.59	132.76	131.96	-7,338.58	38.10	390.37	180.37	210.00	1.859		

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-20-3N
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-20-3N	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	7,806.85	14,349.55	8,067.85	134.32	134.50	131.96	-7,438.58	38.69	390.37	177.60	212.77	1.835	
14,200.00	7,806.85	14,449.55	8,067.85	136.06	136.23	131.96	-7,538.58	39.28	390.37	174.83	215.54	1.811	
14,300.00	7,806.85	14,549.55	8,067.85	137.79	137.97	131.96	-7,638.58	39.87	390.37	172.06	218.31	1.788	
14,400.00	7,806.85	14,649.55	8,067.85	139.53	139.70	131.96	-7,738.58	40.47	390.37	169.28	221.09	1.766	
14,500.00	7,806.84	14,749.55	8,067.84	141.27	141.44	131.96	-7,838.58	41.06	390.37	166.51	223.87	1.744	
14,600.00	7,806.84	14,849.55	8,067.84	143.00	143.18	131.96	-7,938.57	41.65	390.37	163.73	226.64	1.722	
14,700.00	7,806.84	14,949.55	8,067.84	144.74	144.91	131.96	-8,038.57	42.24	390.38	160.95	229.42	1.702	
14,800.00	7,806.84	15,049.55	8,067.84	146.48	146.65	131.96	-8,138.57	42.83	390.38	158.17	232.21	1.681	
14,900.00	7,806.83	15,149.55	8,067.83	148.22	148.39	131.96	-8,238.57	43.43	390.38	155.39	234.99	1.661	
15,000.00	7,806.83	15,249.55	8,067.83	149.97	150.14	131.96	-8,338.57	44.02	390.38	152.61	237.77	1.642	
15,100.00	7,806.83	15,349.55	8,067.83	151.71	151.88	131.96	-8,438.56	44.61	390.38	149.82	240.56	1.623	
15,200.00	7,806.83	15,449.55	8,067.83	153.45	153.62	131.96	-8,538.56	45.20	390.38	147.03	243.35	1.604	
15,300.00	7,806.82	15,549.55	8,067.82	155.19	155.36	131.96	-8,638.56	45.80	390.38	144.25	246.14	1.586	
15,400.00	7,806.82	15,649.55	8,067.82	156.94	157.11	131.96	-8,738.56	46.39	390.39	141.46	248.93	1.568	
15,500.00	7,806.82	15,749.55	8,067.82	158.68	158.85	131.96	-8,838.56	46.98	390.39	138.67	251.72	1.551	
15,600.00	7,806.82	15,849.55	8,067.82	160.43	160.60	131.96	-8,938.56	47.57	390.39	135.88	254.51	1.534	
15,700.00	7,806.81	15,949.55	8,067.81	162.18	162.34	131.96	-9,038.55	48.17	390.39	133.09	257.30	1.517	
15,800.00	7,806.81	16,049.55	8,067.81	163.92	164.09	131.96	-9,138.55	48.76	390.39	130.30	260.10	1.501	
15,900.00	7,806.81	16,149.55	8,067.81	165.67	165.83	131.96	-9,238.55	49.35	390.39	127.50	262.89	1.485 Level 3	
16,000.00	7,806.81	16,249.55	8,067.81	167.42	167.58	131.96	-9,338.55	49.94	390.39	124.71	265.69	1.469 Level 3	
16,100.00	7,806.80	16,349.55	8,067.80	169.17	169.33	131.96	-9,438.55	50.53	390.40	121.91	268.49	1.454 Level 3	
16,200.00	7,806.80	16,449.55	8,067.80	170.91	171.08	131.95	-9,538.55	51.13	390.40	119.11	271.28	1.439 Level 3	
16,300.00	7,806.80	16,549.55	8,067.80	172.66	172.83	131.95	-9,638.54	51.72	390.40	116.32	274.08	1.424 Level 3	
16,400.00	7,806.80	16,649.55	8,067.80	174.41	174.58	131.95	-9,738.54	52.31	390.40	113.52	276.88	1.410 Level 3	
16,500.00	7,806.79	16,749.55	8,067.79	176.16	176.33	131.95	-9,838.54	52.90	390.40	110.72	279.68	1.396 Level 3	
16,600.00	7,806.79	16,849.55	8,067.79	177.92	178.08	131.95	-9,938.54	53.50	390.40	107.92	282.48	1.382 Level 3	
16,700.00	7,806.79	16,949.55	8,067.79	179.67	179.83	131.95	-10,038.54	54.09	390.41	105.12	285.29	1.368 Level 3	
16,800.00	7,806.79	17,049.55	8,067.79	181.42	181.58	131.95	-10,138.54	54.68	390.41	102.32	288.09	1.355 Level 3	
16,900.00	7,806.78	17,149.55	8,067.78	183.17	183.33	131.95	-10,238.53	55.27	390.41	99.52	290.89	1.342 Level 3	
17,000.00	7,806.78	17,249.55	8,067.78	184.92	185.08	131.95	-10,338.53	55.87	390.41	96.71	293.70	1.329 Level 3	
17,100.00	7,806.78	17,349.55	8,067.78	186.68	186.84	131.95	-10,438.53	56.46	390.41	93.91	296.50	1.317 Level 3	
17,200.00	7,806.78	17,449.55	8,067.78	188.43	188.59	131.95	-10,538.53	57.05	390.41	91.10	299.31	1.304 Level 3	
17,300.00	7,806.77	17,549.55	8,067.77	190.18	190.34	131.95	-10,638.53	57.64	390.41	88.30	302.12	1.292 Level 3	
17,400.00	7,806.77	17,649.55	8,067.77	191.94	192.10	131.95	-10,738.52	58.23	390.42	85.49	304.92	1.280 Level 3	
17,500.00	7,806.77	17,749.55	8,067.77	193.69	193.85	131.95	-10,838.52	58.83	390.42	82.69	307.73	1.269 Level 3	
17,600.00	7,806.77	17,849.55	8,067.77	195.45	195.60	131.95	-10,938.52	59.42	390.42	79.88	310.54	1.257 Level 3	
17,700.00	7,806.76	17,949.55	8,067.76	197.20	197.36	131.95	-11,038.52	60.01	390.42	77.07	313.35	1.246 Level 2	
17,800.00	7,806.76	18,049.55	8,067.76	198.96	199.11	131.95	-11,138.52	60.60	390.42	74.26	316.16	1.235 Level 2	
17,861.85	7,806.76	18,110.63	8,067.86	200.04	200.19	131.97	-11,199.59	61.03	390.44	72.62	317.82	1.229 Level 2	
17,877.44	7,807.00	18,126.22	8,068.02	200.32	200.46	131.96	-11,215.18	61.22	390.37	72.08	318.29	1.226 Level 2, SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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								Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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					
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.20	35.99	35.99	29.99	6.00	5.994					
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.32	-0.20	35.99	35.99	29.27	6.72	5.355					
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.32	-0.20	35.99	35.99	28.55	7.44	4.839					
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	90.32	-0.20	35.99	35.99	27.84	8.16	4.413					
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	90.32	-0.20	35.99	35.99	27.12	8.87	4.057 CC					
1,400.00	1,400.00	1,399.35	1,399.33	4.79	4.78	92.66	-1.71	36.82	36.86	27.29	9.57	3.853					
1,500.00	1,499.98	1,498.57	1,498.41	5.14	5.10	-67.00	-6.23	39.29	39.10	28.88	10.23	3.823					
1,600.00	1,599.84	1,597.65	1,597.12	5.46	5.44	-63.93	-13.75	43.41	42.14	31.27	10.87	3.876					
1,700.00	1,699.45	1,696.60	1,695.34	5.80	5.78	-61.83	-24.24	49.15	45.88	34.36	11.52	3.981					
1,800.00	1,798.70	1,795.41	1,792.94	6.14	6.13	-60.57	-37.68	56.51	50.25	38.07	12.18	4.124					
1,900.00	1,897.47	1,894.07	1,889.82	6.49	6.51	-59.98	-54.03	65.47	55.22	42.36	12.86	4.294					
1,969.08	1,965.35	1,962.81	1,957.01	6.75	6.78	-60.20	-66.78	72.45	58.69	45.33	13.36	4.392					
2,000.00	1,995.66	2,006.30	1,987.19	6.86	6.95	-60.61	-72.53	75.60	60.08	46.44	13.64	4.404					
2,100.00	2,093.69	2,093.59	2,084.80	7.25	7.31	-61.80	-91.14	85.78	64.60	50.23	14.37	4.496					
2,200.00	2,191.72	2,206.52	2,182.42	7.65	7.79	-62.83	-109.74	95.97	69.14	53.92	15.22	4.544					
2,300.00	2,289.76	2,293.37	2,280.03	8.07	8.17	-63.74	-128.34	106.16	73.70	57.72	15.98	4.612					
2,400.00	2,387.79	2,393.26	2,377.64	8.49	8.62	-64.54	-146.95	116.34	78.28	61.46	16.81	4.656					
2,500.00	2,485.82	2,506.85	2,475.25	8.91	9.13	-65.25	-165.55	126.53	82.87	65.15	17.72	4.677					
2,600.00	2,583.86	2,606.96	2,572.86	9.35	9.59	-65.89	-184.15	136.72	87.47	68.89	18.58	4.708					
2,700.00	2,681.89	2,707.07	2,670.48	9.79	10.05	-66.46	-202.75	146.90	92.08	72.63	19.45	4.734					
2,800.00	2,779.92	2,807.19	2,768.09	10.24	10.52	-66.98	-221.36	157.09	96.70	76.36	20.34	4.755					
2,900.00	2,877.96	2,892.70	2,865.70	10.69	10.93	-67.45	-239.96	167.28	101.33	80.16	21.16	4.788					
3,000.00	2,975.99	3,007.41	2,963.31	11.14	11.47	-67.88	-258.56	177.46	105.96	83.83	22.13	4.788					
3,100.00	3,074.02	3,107.52	3,060.92	11.60	11.95	-68.28	-277.17	187.65	110.60	87.56	23.04	4.801					
3,200.00	3,172.06	3,207.63	3,158.53	12.06	12.44	-68.64	-295.77	197.83	115.24	91.29	23.95	4.812					
3,300.00	3,270.09	3,292.26	3,256.15	12.52	12.85	-68.98	-314.37	208.02	119.89	95.09	24.80	4.835					
3,400.00	3,368.12	3,407.85	3,353.76	12.98	13.41	-69.29	-332.97	218.21	124.54	98.75	25.79	4.829					
3,500.00	3,466.16	3,507.96	3,451.37	13.45	13.90	-69.57	-351.58	228.39	129.20	102.48	26.72	4.835					
3,600.00	3,564.19	3,608.07	3,548.98	13.92	14.39	-69.84	-370.18	238.58	133.86	106.20	27.65	4.841					
3,700.00	3,662.23	3,691.82	3,646.59	14.39	14.80	-70.09	-388.78	248.77	138.52	110.01	28.51	4.858					
3,800.00	3,760.26	3,808.29	3,744.21	14.86	15.38	-70.32	-407.39	258.95	143.18	113.65	29.53	4.849					
3,900.00	3,858.29	3,908.40	3,841.82	15.34	15.87	-70.54	-425.99	269.14	147.85	117.38	30.47	4.852					
4,000.00	3,956.33	4,008.51	3,939.43	15.81	16.37	-70.75	-444.59	279.33	152.51	121.10	31.41	4.855					
4,100.00	4,054.36	4,091.38	4,037.04	16.29	16.78	-70.94	-463.19	289.51	157.18	124.90	32.28	4.869					
4,200.00	4,152.39	4,208.73	4,134.65	16.77	17.37	-71.12	-481.80	299.70	161.85	128.54	33.31	4.859					
4,300.00	4,250.43	4,308.84	4,232.27	17.25	17.87	-71.29	-500.40	309.88	166.53	132.26	34.26	4.860					
4,400.00	4,348.46	4,408.95	4,329.88	17.73	18.37	-71.45	-519.00	320.07	171.20	135.98	35.22	4.861					
4,500.00	4,446.49	4,490.94	4,427.49	18.21	18.78	-71.61	-537.61	330.26	175.88	139.79	36.09	4.874					
4,600.00	4,544.53	4,590.83	4,525.10	18.69	19.28	-71.75	-556.21	340.44	180.55	143.51	37.04	4.874					
4,700.00	4,642.56	4,690.72	4,622.71	19.17	19.78	-71.89	-574.81	350.63	185.23	147.23	38.00	4.875					
4,800.00	4,740.59	4,809.39	4,720.33	19.65	20.38	-72.02	-593.41	360.82	189.91	150.86	39.05	4.864					
4,900.00	4,838.63	4,909.50	4,817.94	20.13	20.88	-72.15	-612.02	371.00	194.59	154.58	40.01	4.864					
5,000.00	4,936.66	5,009.61	4,915.55	20.62	21.39	-72.27	-630.62	381.19	199.27	158.30	40.97	4.864					

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-20-3N
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-20-3N	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	5,034.69	5,109.73	5,013.16	21.10	21.89	-72.38	-649.22	391.37	203.95	162.01	41.94	4.863		
5,200.00	5,132.73	5,209.84	5,110.77	21.59	22.40	-72.49	-667.82	401.56	208.63	165.73	42.90	4.863		
5,300.00	5,230.76	5,309.95	5,208.39	22.07	22.90	-72.59	-686.43	411.75	213.31	169.45	43.87	4.863		
5,400.00	5,328.79	5,389.94	5,306.00	22.56	23.31	-72.69	-705.03	421.93	218.00	173.26	44.74	4.873		
5,500.00	5,426.83	5,489.83	5,403.61	23.04	23.81	-72.79	-723.63	432.12	222.68	176.98	45.70	4.872		
5,600.00	5,524.86	5,589.72	5,501.22	23.53	24.32	-72.88	-742.24	442.31	227.37	180.70	46.67	4.872		
5,700.00	5,622.89	5,689.61	5,598.83	24.02	24.82	-72.97	-760.84	452.49	232.05	184.41	47.64	4.871		
5,800.00	5,720.93	5,789.50	5,696.45	24.50	25.33	-73.05	-779.44	462.68	236.74	188.13	48.61	4.871		
5,900.00	5,818.96	5,889.39	5,794.06	24.99	25.84	-73.13	-798.04	472.87	241.42	191.85	49.57	4.870		
6,000.00	5,916.99	5,989.28	5,891.67	25.48	26.35	-73.21	-816.65	483.05	246.11	195.57	50.54	4.869		
6,100.00	6,015.03	6,089.17	5,989.28	25.97	26.85	-73.28	-835.25	493.24	250.80	199.28	51.52	4.868		
6,200.00	6,113.06	6,189.06	6,086.89	26.45	27.36	-73.36	-853.85	503.42	255.48	203.00	52.49	4.868		
6,300.00	6,211.09	6,288.95	6,184.51	26.94	27.87	-73.42	-872.46	513.61	260.17	206.71	53.46	4.867		
6,400.00	6,309.13	6,388.84	6,282.12	27.43	28.38	-73.49	-891.06	523.80	264.86	210.43	54.43	4.866		
6,500.00	6,407.16	6,488.73	6,379.73	27.92	28.88	-73.56	-909.66	533.98	269.55	214.15	55.40	4.865		
6,600.00	6,505.19	6,588.62	6,477.34	28.41	29.39	-73.62	-928.26	544.17	274.24	217.86	56.38	4.864		
6,664.73	6,568.65	6,654.01	6,541.25	28.73	29.72	-73.67	-940.41	550.82	277.25	220.24	57.01	4.863		
6,700.00	6,603.27	6,690.96	6,577.45	28.90	29.91	-73.75	-946.91	554.38	278.77	221.39	57.37	4.859		
6,800.00	6,701.84	6,795.77	6,680.61	29.36	30.40	-73.96	-963.11	563.25	282.54	224.20	58.33	4.843		
6,900.00	6,800.94	6,900.65	6,784.46	29.78	30.85	-74.13	-976.01	570.31	285.54	226.32	59.21	4.822		
7,000.00	6,900.45	7,005.59	6,888.82	30.17	31.26	-74.25	-985.56	575.54	287.76	227.75	60.01	4.795		
7,100.00	7,000.24	7,110.57	6,993.55	30.53	31.64	-74.33	-991.76	578.94	289.20	228.48	60.73	4.762		
7,200.00	7,100.19	7,215.57	7,098.50	30.85	31.96	-74.36	-994.59	580.49	289.86	228.51	61.36	4.724		
7,233.81	7,134.00	7,251.07	7,134.00	30.95	32.06	89.39	-994.78	580.59	289.91	228.37	61.54	4.711		
7,300.00	7,200.19	7,317.26	7,200.19	31.12	32.23	89.39	-994.78	580.59	289.91	228.01	61.90	4.684		
7,333.81	7,234.00	7,351.07	7,234.00	31.21	32.32	89.39	-994.78	580.59	289.91	227.83	62.08	4.670		
7,333.81	7,234.00	7,351.07	7,234.00	31.21	32.32	89.39	-994.78	580.59	289.91	227.83	62.08	4.670		
7,350.00	7,250.18	7,367.30	7,250.22	31.26	32.37	-90.27	-995.01	580.59	289.91	227.73	62.18	4.663		
7,400.00	7,300.04	7,417.41	7,300.19	31.44	32.54	-90.26	-998.62	580.61	289.91	227.37	62.53	4.636		
7,450.00	7,349.39	7,467.53	7,349.66	31.66	32.75	-90.26	-1,006.57	580.66	289.91	226.93	62.97	4.604		
7,500.00	7,397.87	7,517.64	7,398.24	31.92	33.00	-90.26	-1,018.82	580.74	289.91	226.42	63.49	4.566		
7,550.00	7,445.09	7,567.75	7,445.55	32.22	33.28	-90.25	-1,035.26	580.83	289.91	225.82	64.08	4.524		
7,600.00	7,490.72	7,617.86	7,491.25	32.55	33.60	-90.24	-1,055.77	580.96	289.91	225.16	64.75	4.477		
7,650.00	7,534.38	7,667.96	7,534.98	32.92	33.96	-90.23	-1,080.19	581.10	289.91	224.42	65.49	4.427		
7,700.00	7,575.77	7,718.06	7,576.41	33.32	34.34	-90.21	-1,108.34	581.27	289.91	223.62	66.29	4.373		
7,750.00	7,614.55	7,768.15	7,615.21	33.75	34.76	-90.20	-1,139.99	581.46	289.91	222.75	67.16	4.317		
7,800.00	7,650.43	7,818.23	7,651.10	34.22	35.20	-90.18	-1,174.90	581.67	289.91	221.82	68.09	4.258		
7,850.00	7,683.15	7,868.31	7,683.80	34.71	35.68	-90.17	-1,212.80	581.89	289.91	220.83	69.08	4.197		
7,900.00	7,712.45	7,918.38	7,713.06	35.23	36.18	-90.15	-1,253.41	582.13	289.91	219.79	70.12	4.135		
7,950.00	7,738.11	7,968.44	7,738.67	35.78	36.70	-90.13	-1,296.41	582.39	289.91	218.70	71.21	4.071		
8,000.00	7,759.93	8,018.49	7,760.42	36.35	37.25	-90.11	-1,341.47	582.66	289.91	217.57	72.34	4.008		
8,050.00	7,777.75	8,068.53	7,778.15	36.93	37.81	-90.08	-1,388.24	582.94	289.91	216.40	73.51	3.944		
8,100.00	7,791.43	8,118.56	7,791.73	37.53	38.39	-90.06	-1,436.38	583.22	289.91	215.21	74.71	3.881		
8,150.00	7,800.87	8,168.59	7,801.06	38.14	38.98	-90.04	-1,485.51	583.52	289.91	213.99	75.92	3.818		
8,200.00	7,806.00	8,218.60	7,806.08	38.76	39.58	-90.02	-1,535.25	583.81	289.91	212.76	77.15	3.758		
8,233.89	7,807.00	8,252.49	7,807.00	39.18	39.99	-90.00	-1,569.13	584.01	289.91	211.92	77.99	3.717		
8,300.00	7,807.00	8,318.60	7,807.00	40.00	40.79	-90.00	-1,635.23	584.41	289.92	210.27	79.64	3.640		
8,400.00	7,807.00	8,418.60	7,807.00	41.29	42.04	-90.00	-1,735.23	585.00	289.92	207.71	82.20	3.527		
8,500.00	7,806.99	8,518.60	7,807.00	42.60	43.33	-90.00	-1,835.23	585.60	289.92	205.08	84.84	3.417		
8,600.00	7,806.99	8,618.60	7,806.99	43.95	44.65	-90.00	-1,935.23	586.20	289.92	202.38	87.54	3.312		
8,700.00	7,806.99	8,718.60	7,806.99	45.33	46.00	-90.00	-2,035.22	586.79	289.92	199.63	90.29	3.211		
8,800.00	7,806.99	8,818.60	7,806.99	46.74	47.37	-90.00	-2,135.22	587.39	289.92	196.82	93.10	3.114		

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-20-3N
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-20-3N	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	7,806.98	8,918.60	7,806.99	48.17	48.78	-90.00	-2,235.22	587.98	289.93	193.96	95.96	3.021		
9,000.00	7,806.98	9,018.60	7,806.99	49.62	50.20	-90.00	-2,335.22	588.58	289.93	191.06	98.86	2.933		
9,100.00	7,806.98	9,118.60	7,806.99	51.09	51.65	-90.00	-2,435.22	589.18	289.93	188.12	101.81	2.848		
9,200.00	7,806.98	9,218.60	7,806.99	52.59	53.12	-90.00	-2,535.22	589.77	289.93	185.14	104.79	2.767		
9,300.00	7,806.97	9,318.60	7,806.98	54.09	54.60	-90.00	-2,635.21	590.37	289.93	182.13	107.80	2.689		
9,400.00	7,806.97	9,418.60	7,806.98	55.62	56.10	-90.00	-2,735.21	590.96	289.93	179.08	110.85	2.616		
9,500.00	7,806.97	9,518.60	7,806.98	57.16	57.62	-90.00	-2,835.21	591.56	289.94	176.01	113.93	2.545		
9,600.00	7,806.97	9,618.60	7,806.98	58.71	59.15	-90.00	-2,935.21	592.16	289.94	172.91	117.03	2.477		
9,700.00	7,806.96	9,718.60	7,806.98	60.27	60.70	-90.00	-3,035.21	592.75	289.94	169.78	120.16	2.413		
9,800.00	7,806.96	9,818.60	7,806.98	61.84	62.25	-90.00	-3,135.20	593.35	289.94	166.63	123.31	2.351		
9,900.00	7,806.96	9,918.60	7,806.97	63.43	63.82	-90.00	-3,235.20	593.94	289.94	163.46	126.48	2.292		
10,000.00	7,806.96	10,018.60	7,806.97	65.02	65.40	-90.00	-3,335.20	594.54	289.94	160.27	129.67	2.236		
10,100.00	7,806.95	10,118.60	7,806.97	66.63	66.99	-90.00	-3,435.20	595.14	289.95	157.07	132.88	2.182		
10,200.00	7,806.95	10,218.60	7,806.97	68.24	68.58	-90.00	-3,535.20	595.73	289.95	153.84	136.10	2.130		
10,300.00	7,806.95	10,318.60	7,806.97	69.86	70.19	-90.00	-3,635.20	596.33	289.95	150.60	139.34	2.081		
10,400.00	7,806.95	10,418.60	7,806.97	71.49	71.80	-90.00	-3,735.19	596.92	289.95	147.35	142.60	2.033		
10,500.00	7,806.94	10,518.60	7,806.97	73.12	73.42	-90.00	-3,835.19	597.52	289.95	144.08	145.87	1.988		
10,600.00	7,806.94	10,618.60	7,806.96	74.76	75.05	-90.00	-3,935.19	598.12	289.95	140.80	149.15	1.944		
10,700.00	7,806.94	10,718.60	7,806.96	76.41	76.69	-90.00	-4,035.19	598.71	289.96	137.51	152.44	1.902		
10,800.00	7,806.94	10,818.60	7,806.96	78.06	78.33	-90.00	-4,135.19	599.31	289.96	134.21	155.75	1.862		
10,900.00	7,806.93	10,918.60	7,806.96	79.72	79.97	-90.00	-4,235.18	599.90	289.96	130.89	159.06	1.823		
11,000.00	7,806.93	11,018.60	7,806.96	81.38	81.62	-90.01	-4,335.18	600.50	289.96	127.57	162.39	1.786		
11,100.00	7,806.93	11,118.60	7,806.96	83.05	83.28	-90.01	-4,435.18	601.10	289.96	124.24	165.72	1.750		
11,200.00	7,806.93	11,218.60	7,806.95	84.72	84.94	-90.01	-4,535.18	601.69	289.96	120.90	169.07	1.715		
11,300.00	7,806.92	11,318.60	7,806.95	86.39	86.60	-90.01	-4,635.18	602.29	289.97	117.55	172.42	1.682		
11,400.00	7,806.92	11,418.60	7,806.95	88.07	88.27	-90.01	-4,735.18	602.88	289.97	114.19	175.78	1.650		
11,500.00	7,806.92	11,518.60	7,806.95	89.75	89.95	-90.01	-4,835.17	603.48	289.97	110.83	179.14	1.619		
11,600.00	7,806.92	11,618.60	7,806.95	91.44	91.62	-90.01	-4,935.17	604.08	289.97	107.46	182.51	1.589		
11,700.00	7,806.91	11,718.60	7,806.95	93.13	93.30	-90.01	-5,035.17	604.67	289.97	104.08	185.89	1.560		
11,800.00	7,806.91	11,818.60	7,806.95	94.82	94.99	-90.01	-5,135.17	605.27	289.97	100.69	189.28	1.532		
11,900.00	7,806.91	11,918.60	7,806.94	96.52	96.68	-90.01	-5,235.17	605.86	289.98	97.30	192.67	1.505		
12,000.00	7,806.91	12,018.60	7,806.94	98.21	98.37	-90.01	-5,335.17	606.46	289.98	93.91	196.07	1.479	Level 3	
12,100.00	7,806.90	12,118.60	7,806.94	99.91	100.06	-90.01	-5,435.16	607.06	289.98	90.51	199.47	1.454	Level 3	
12,200.00	7,806.90	12,218.60	7,806.94	101.62	101.76	-90.01	-5,535.16	607.65	289.98	87.10	202.88	1.429	Level 3	
12,300.00	7,806.90	12,318.60	7,806.94	103.32	103.45	-90.01	-5,635.16	608.25	289.98	83.69	206.29	1.406	Level 3	
12,400.00	7,806.90	12,418.60	7,806.94	105.03	105.15	-90.01	-5,735.16	608.84	289.98	80.28	209.70	1.383	Level 3	
12,500.00	7,806.89	12,518.60	7,806.93	106.74	106.86	-90.01	-5,835.16	609.44	289.99	76.86	213.12	1.361	Level 3	
12,600.00	7,806.89	12,618.60	7,806.93	108.45	108.56	-90.01	-5,935.15	610.04	289.99	73.44	216.55	1.339	Level 3	
12,700.00	7,806.89	12,718.60	7,806.93	110.17	110.27	-90.01	-6,035.15	610.63	289.99	70.01	219.98	1.318	Level 3	
12,800.00	7,806.89	12,818.60	7,806.93	111.88	111.98	-90.01	-6,135.15	611.23	289.99	66.58	223.41	1.298	Level 3	
12,900.00	7,806.88	12,918.60	7,806.93	113.60	113.69	-90.01	-6,235.15	611.82	289.99	63.15	226.84	1.278	Level 3	
13,000.00	7,806.88	13,018.60	7,806.93	115.32	115.41	-90.01	-6,335.15	612.42	289.99	59.71	230.28	1.259	Level 3	
13,100.00	7,806.88	13,118.60	7,806.93	117.04	117.12	-90.01	-6,435.15	613.02	290.00	56.27	233.72	1.241	Level 2	
13,200.00	7,806.88	13,218.60	7,806.92	118.76	118.84	-90.01	-6,535.14	613.61	290.00	52.83	237.17	1.223	Level 2	
13,300.00	7,806.87	13,318.60	7,806.92	120.48	120.56	-90.01	-6,635.14	614.21	290.00	49.38	240.62	1.205	Level 2	
13,400.00	7,806.87	13,418.60	7,806.92	122.21	122.28	-90.01	-6,735.14	614.80	290.00	45.93	244.07	1.188	Level 2	
13,500.00	7,806.87	13,518.60	7,806.92	123.94	124.00	-90.01	-6,835.14	615.40	290.00	42.48	247.52	1.172	Level 2	
13,600.00	7,806.87	13,618.60	7,806.92	125.66	125.72	-90.01	-6,935.14	616.00	290.00	39.02	250.98	1.155	Level 2	
13,700.00	7,806.86	13,718.60	7,806.92	127.39	127.45	-90.01	-7,035.14	616.59	290.00	35.57	254.44	1.140	Level 2	
13,800.00	7,806.86	13,818.60	7,806.91	129.12	129.17	-90.01	-7,135.13	617.19	290.01	32.11	257.90	1.124	Level 2	
13,900.00	7,806.86	13,918.60	7,806.91	130.85	130.90	-90.01	-7,235.13	617.78	290.01	28.65	261.36	1.110	Level 2	
14,000.00	7,806.86	14,018.60	7,806.91	132.59	132.63	-90.01	-7,335.13	618.38	290.01	25.18	264.83	1.095	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-20-3N
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-20-3N	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	7,806.85	14,118.60	7,806.91	134.32	134.36	-90.01	-7,435.13	618.98	290.01	21.72	268.30	1.081 Level 2		
14,200.00	7,806.85	14,218.60	7,806.91	136.06	136.09	-90.01	-7,535.13	619.57	290.01	18.25	271.77	1.067 Level 2		
14,300.00	7,806.85	14,318.60	7,806.91	137.79	137.82	-90.01	-7,635.12	620.17	290.01	14.78	275.24	1.054 Level 2		
14,400.00	7,806.85	14,418.60	7,806.91	139.53	139.55	-90.01	-7,735.12	620.76	290.02	11.31	278.71	1.041 Level 2		
14,500.00	7,806.84	14,518.60	7,806.90	141.27	141.28	-90.01	-7,835.12	621.36	290.02	7.83	282.19	1.028 Level 2		
14,600.00	7,806.84	14,618.60	7,806.90	143.00	143.02	-90.01	-7,935.12	621.96	290.02	4.36	285.66	1.015 Level 2		
14,700.00	7,806.84	14,718.60	7,806.90	144.74	144.75	-90.01	-8,035.12	622.55	290.02	0.88	289.14	1.003 Level 2		
14,800.00	7,806.84	14,818.60	7,806.90	146.48	146.49	-90.01	-8,135.12	623.15	290.02	-2.60	292.62	0.991 Level 1		
14,900.00	7,806.83	14,918.60	7,806.90	148.22	148.23	-90.01	-8,235.11	623.74	290.02	-6.08	296.11	0.979 Level 1		
15,000.00	7,806.83	15,018.60	7,806.90	149.97	149.97	-90.01	-8,335.11	624.34	290.03	-9.56	299.59	0.968 Level 1		
15,100.00	7,806.83	15,118.60	7,806.89	151.71	151.71	-90.01	-8,435.11	624.94	290.03	-13.05	303.07	0.957 Level 1		
15,200.00	7,806.83	15,218.60	7,806.89	153.45	153.45	-90.01	-8,535.11	625.53	290.03	-16.53	306.56	0.946 Level 1		
15,300.00	7,806.82	15,318.60	7,806.89	155.19	155.19	-90.01	-8,635.11	626.13	290.03	-20.02	310.05	0.935 Level 1		
15,400.00	7,806.82	15,418.60	7,806.89	156.94	156.93	-90.01	-8,735.11	626.72	290.03	-23.50	313.54	0.925 Level 1		
15,500.00	7,806.82	15,518.60	7,806.89	158.68	158.67	-90.01	-8,835.10	627.32	290.03	-26.99	317.03	0.915 Level 1		
15,600.00	7,806.82	15,618.60	7,806.89	160.43	160.41	-90.01	-8,935.10	627.92	290.04	-30.48	320.52	0.905 Level 1		
15,700.00	7,806.81	15,718.60	7,806.89	162.18	162.16	-90.01	-9,035.10	628.51	290.04	-33.97	324.01	0.895 Level 1		
15,800.00	7,806.81	15,818.60	7,806.88	163.92	163.90	-90.01	-9,135.10	629.11	290.04	-37.47	327.51	0.886 Level 1		
15,900.00	7,806.81	15,918.60	7,806.88	165.67	165.64	-90.01	-9,235.10	629.70	290.04	-40.96	331.00	0.876 Level 1		
16,000.00	7,806.81	16,018.60	7,806.88	167.42	167.39	-90.01	-9,335.09	630.30	290.04	-44.46	334.50	0.867 Level 1		
16,100.00	7,806.80	16,118.60	7,806.88	169.17	169.13	-90.01	-9,435.09	630.90	290.04	-47.95	338.00	0.858 Level 1		
16,200.00	7,806.80	16,218.60	7,806.88	170.91	170.88	-90.01	-9,535.09	631.49	290.05	-51.45	341.49	0.849 Level 1		
16,300.00	7,806.80	16,318.60	7,806.88	172.66	172.63	-90.02	-9,635.09	632.09	290.05	-54.95	344.99	0.841 Level 1		
16,400.00	7,806.80	16,418.60	7,806.87	174.41	174.38	-90.02	-9,735.09	632.68	290.05	-58.44	348.49	0.832 Level 1		
16,500.00	7,806.79	16,518.60	7,806.87	176.16	176.12	-90.02	-9,835.09	633.28	290.05	-61.94	351.99	0.824 Level 1		
16,600.00	7,806.79	16,618.60	7,806.87	177.92	177.87	-90.02	-9,935.08	633.87	290.05	-65.44	355.50	0.816 Level 1		
16,700.00	7,806.79	16,718.60	7,806.87	179.67	179.62	-90.02	-10,035.08	634.47	290.05	-68.95	359.00	0.808 Level 1		
16,800.00	7,806.79	16,818.60	7,806.87	181.42	181.37	-90.02	-10,135.08	635.07	290.06	-72.45	362.50	0.800 Level 1		
16,900.00	7,806.78	16,918.60	7,806.87	183.17	183.12	-90.02	-10,235.08	635.66	290.06	-75.95	366.01	0.792 Level 1		
17,000.00	7,806.78	17,018.60	7,806.86	184.92	184.87	-90.02	-10,335.08	636.26	290.06	-79.45	369.51	0.785 Level 1		
17,100.00	7,806.78	17,118.60	7,806.86	186.68	186.62	-90.02	-10,435.07	636.85	290.06	-82.96	373.02	0.778 Level 1		
17,200.00	7,806.78	17,218.60	7,806.86	188.43	188.37	-90.02	-10,535.07	637.45	290.06	-86.46	376.53	0.770 Level 1		
17,300.00	7,806.77	17,318.60	7,806.86	190.18	190.12	-90.02	-10,635.07	638.05	290.06	-89.97	380.03	0.763 Level 1		
17,400.00	7,806.77	17,418.60	7,806.86	191.94	191.88	-90.02	-10,735.07	638.64	290.07	-93.48	383.54	0.756 Level 1		
17,500.00	7,806.77	17,518.60	7,806.86	193.69	193.63	-90.02	-10,835.07	639.24	290.07	-96.98	387.05	0.749 Level 1		
17,600.00	7,806.77	17,618.60	7,806.86	195.45	195.38	-90.02	-10,935.07	639.83	290.07	-100.49	390.56	0.743 Level 1		
17,700.00	7,806.76	17,718.60	7,806.85	197.20	197.13	-90.02	-11,035.06	640.43	290.07	-104.00	394.07	0.736 Level 1		
17,800.00	7,806.76	17,818.58	7,806.88	198.96	198.89	-90.02	-11,135.05	641.03	290.07	-107.51	397.58	0.730 Level 1		
17,876.41	7,806.76	17,895.00	7,807.00	200.30	200.23	-90.05	-11,211.46	641.49	290.08	-110.19	400.27	0.725 Level 1		
17,877.44	7,807.00	17,896.03	7,807.00	200.32	200.25	-90.00	-11,212.49	641.49	290.01	-110.30	400.30	0.724 Level 1, ES, SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
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	267.725					
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.40	71.98	71.98	70.99	0.99	73.016					
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.40	71.98	71.98	70.28	1.70	42.272					
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.40	71.98	71.98	69.56	2.42	29.747					
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.40	71.98	71.98	68.84	3.14	22.948					
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					
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.40	71.98	71.98	67.41	4.57	15.749					
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.40	71.98	71.98	66.69	5.29	13.613					
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-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	90.32	-0.40	71.98	71.98	65.26	6.72	10.709					
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.32	-0.40	71.98	71.98	64.54	7.44	9.677					
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	90.32	-0.40	71.98	71.98	63.82	8.16	8.826	CC, ES				
1,300.00	1,300.00	1,298.40	1,298.38	4.44	4.42	91.35	-1.72	73.04	73.08	64.23	8.85	8.258					
1,400.00	1,400.00	1,396.57	1,396.41	4.79	4.74	94.24	-5.65	76.21	76.50	66.97	9.53	8.031					
1,500.00	1,499.98	1,494.42	1,493.90	5.14	5.07	-66.25	-12.17	81.46	81.88	71.69	10.18	8.042					
1,600.00	1,599.84	1,592.00	1,590.78	5.46	5.41	-63.93	-21.25	88.78	88.50	77.68	10.82	8.181					
1,700.00	1,699.45	1,689.30	1,686.92	5.80	5.77	-62.44	-32.86	98.13	96.23	84.77	11.46	8.397					
1,800.00	1,798.70	1,786.28	1,782.20	6.14	6.14	-61.64	-46.96	109.48	104.97	92.86	12.11	8.669					
1,900.00	1,897.47	1,884.08	1,877.65	6.49	6.53	-61.46	-63.52	122.82	114.49	101.69	12.80	8.947					
1,969.08	1,965.35	1,952.88	1,944.71	6.75	6.82	-62.07	-75.50	132.47	120.45	107.13	13.31	9.048					
2,000.00	1,995.66	1,983.69	1,974.74	6.86	6.95	-62.52	-80.87	136.80	122.95	109.40	13.55	9.075					
2,100.00	2,093.69	2,083.31	2,071.83	7.25	7.39	-63.86	-98.23	150.78	131.08	116.75	14.33	9.147					
2,200.00	2,191.72	2,182.93	2,168.93	7.65	7.84	-65.05	-115.58	164.76	139.28	124.15	15.14	9.202					
2,300.00	2,289.76	2,282.56	2,266.03	8.07	8.29	-66.10	-132.94	178.74	147.53	131.57	15.96	9.244					
2,400.00	2,387.79	2,382.18	2,363.13	8.49	8.76	-67.04	-150.29	192.72	155.83	139.03	16.80	9.275					
2,500.00	2,485.82	2,481.81	2,460.23	8.91	9.23	-67.89	-167.65	206.70	164.16	146.50	17.66	9.297					
2,600.00	2,583.86	2,581.43	2,557.33	9.35	9.71	-68.65	-185.01	220.68	172.53	154.00	18.53	9.312					
2,700.00	2,681.89	2,681.06	2,654.43	9.79	10.19	-69.35	-202.36	234.66	180.92	161.51	19.41	9.322					
2,800.00	2,779.92	2,780.68	2,751.53	10.24	10.68	-69.98	-219.72	248.64	189.34	169.04	20.30	9.328					
2,900.00	2,877.96	2,880.30	2,848.63	10.69	11.17	-70.56	-237.07	262.62	197.78	176.58	21.20	9.330					
3,000.00	2,975.99	2,979.93	2,945.73	11.14	11.66	-71.09	-254.43	276.60	206.23	184.13	22.11	9.329					
3,100.00	3,074.02	3,079.55	3,042.83	11.60	12.16	-71.57	-271.79	290.58	214.71	191.69	23.02	9.327					
3,200.00	3,172.06	3,179.18	3,139.93	12.06	12.66	-72.03	-289.14	304.56	223.19	199.25	23.94	9.323					
3,300.00	3,270.09	3,278.80	3,237.03	12.52	13.16	-72.44	-306.50	318.54	231.69	206.83	24.87	9.317					
3,400.00	3,368.12	3,378.43	3,334.13	12.98	13.66	-72.83	-323.85	332.52	240.20	214.41	25.80	9.311					
3,500.00	3,466.16	3,478.05	3,431.23	13.45	14.17	-73.20	-341.21	346.50	248.73	221.99	26.73	9.304					
3,600.00	3,564.19	3,577.68	3,528.33	13.92	14.67	-73.53	-358.56	360.48	257.26	229.58	27.67	9.296					
3,700.00	3,662.23	3,677.30	3,625.43	14.39	15.18	-73.85	-375.92	374.46	265.80	237.18	28.62	9.288					
3,800.00	3,760.26	3,776.92	3,722.53	14.86	15.69	-74.15	-393.28	388.44	274.34	244.78	29.56	9.279					
3,900.00	3,858.29	3,876.55	3,819.63	15.34	16.20	-74.43	-410.63	402.42	282.90	252.38	30.51	9.271					
4,000.00	3,956.33	3,976.17	3,916.73	15.81	16.72	-74.69	-427.99	416.41	291.46	259.99	31.47	9.262					
4,100.00	4,054.36	4,075.80	4,013.83	16.29	17.23	-74.94	-445.34	430.39	300.02	267.60	32.42	9.254					
4,200.00	4,152.39	4,175.42	4,110.93	16.77	17.74	-75.17	-462.70	444.37	308.59	275.21	33.38	9.245					
4,300.00	4,250.43	4,275.05	4,208.03	17.25	18.26	-75.39	-480.06	458.35	317.17	282.83	34.34	9.236					
4,400.00	4,348.46	4,374.67	4,305.13	17.73	18.77	-75.60	-497.41	472.33	325.75	290.45	35.30	9.228					
4,500.00	4,446.49	4,474.29	4,402.23	18.21	19.29	-75.80	-514.77	486.31	334.33	298.07	36.26	9.220					
4,600.00	4,544.53	4,573.92	4,499.32	18.69	19.81	-75.99	-532.12	500.29	342.92	305.69	37.23	9.211					
4,700.00	4,642.56	4,673.54	4,596.42	19.17	20.32	-76.17	-549.48	514.27	351.51	313.32	38.19	9.203					
4,800.00	4,740.59	4,773.17	4,693.52	19.65	20.84	-76.34	-566.84	528.25	360.11	320.94	39.16	9.195					
4,900.00	4,838.63	4,872.79	4,790.62	20.13	21.36	-76.50	-584.19	542.23	368.70	328.57	40.13	9.187					
5,000.00	4,936.66	4,972.42	4,887.72	20.62	21.88	-76.66	-601.55	556.21	377.30	336.20	41.10	9.180					

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-20-3N
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-20-3N	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	5,034.69	5,072.04	4,984.82	21.10	22.40	-76.81	-618.90	570.19	385.91	343.83	42.07	9.172		
5,200.00	5,132.73	5,171.67	5,081.92	21.59	22.92	-76.95	-636.26	584.17	394.51	351.47	43.05	9.165		
5,300.00	5,230.76	5,271.29	5,179.02	22.07	23.44	-77.08	-653.62	598.15	403.12	359.10	44.02	9.158		
5,400.00	5,328.79	5,370.91	5,276.12	22.56	23.96	-77.21	-670.97	612.13	411.73	366.74	44.99	9.151		
5,500.00	5,426.83	5,470.54	5,373.22	23.04	24.48	-77.34	-688.33	626.11	420.34	374.37	45.97	9.144		
5,600.00	5,524.86	5,570.16	5,470.32	23.53	25.00	-77.46	-705.68	640.09	428.96	382.01	46.95	9.137		
5,700.00	5,622.89	5,669.79	5,567.42	24.02	25.52	-77.57	-723.04	654.07	437.57	389.65	47.92	9.131		
5,800.00	5,720.93	5,769.41	5,664.52	24.50	26.04	-77.69	-740.40	668.05	446.19	397.29	48.90	9.125		
5,900.00	5,818.96	5,869.04	5,761.62	24.99	26.56	-77.79	-757.75	682.03	454.81	404.93	49.88	9.118		
6,000.00	5,916.99	5,968.66	5,858.72	25.48	27.09	-77.90	-775.11	696.01	463.43	412.57	50.86	9.112		
6,100.00	6,015.03	6,068.28	5,955.82	25.97	27.61	-77.99	-792.46	709.99	472.05	420.22	51.84	9.107		
6,200.00	6,113.06	6,167.91	6,052.92	26.45	28.13	-78.09	-809.82	723.98	480.67	427.86	52.82	9.101		
6,300.00	6,211.09	6,267.53	6,150.02	26.94	28.65	-78.18	-827.18	737.96	489.30	435.50	53.80	9.095		
6,400.00	6,309.13	6,367.16	6,247.12	27.43	29.18	-78.27	-844.53	751.94	497.93	443.15	54.78	9.090		
6,500.00	6,407.16	6,466.78	6,344.22	27.92	29.70	-78.36	-861.89	765.92	506.55	450.79	55.76	9.085		
6,600.00	6,505.19	6,566.41	6,441.32	28.41	30.22	-78.44	-879.24	779.90	515.18	458.44	56.74	9.079		
6,664.73	6,568.65	6,630.89	6,504.17	28.73	30.56	-78.49	-890.48	788.95	520.77	463.39	57.38	9.076		
6,700.00	6,603.27	6,666.03	6,538.41	28.90	30.75	-78.56	-896.60	793.88	523.85	466.13	57.72	9.076		
6,800.00	6,701.84	6,765.57	6,635.44	29.36	31.27	-78.50	-913.94	807.85	533.07	474.44	58.63	9.092		
6,900.00	6,800.94	6,864.92	6,732.26	29.78	31.79	-78.11	-931.25	821.79	543.02	483.55	59.47	9.131		
7,000.00	6,900.45	6,973.56	6,838.43	30.17	32.35	-77.40	-949.19	836.24	553.12	492.81	60.30	9.172		
7,100.00	7,000.24	7,085.56	6,948.69	30.53	32.87	-76.65	-964.46	848.54	561.91	500.83	61.08	9.200		
7,200.00	7,100.19	7,198.17	7,060.25	30.85	33.35	-75.86	-976.41	858.17	569.33	507.56	61.76	9.218		
7,233.81	7,134.00	7,236.38	7,098.22	30.95	33.50	88.18	-979.69	860.81	571.52	509.56	61.96	9.224		
7,300.00	7,200.19	7,311.42	7,172.95	31.12	33.78	88.72	-984.99	865.07	575.16	512.83	62.34	9.227		
7,333.81	7,234.00	7,349.89	7,211.32	31.21	33.91	88.93	-987.11	866.78	576.63	514.11	62.52	9.223		
7,350.00	7,250.18	7,368.33	7,229.73	31.26	33.98	-90.60	-987.98	867.49	577.24	514.61	62.62	9.218		
7,400.00	7,300.04	7,425.31	7,286.65	31.44	34.16	-90.65	-990.10	869.19	578.74	515.74	63.00	9.187		
7,450.00	7,349.39	7,481.75	7,343.06	31.66	34.33	-91.31	-991.33	870.19	579.74	516.26	63.47	9.133		
7,500.00	7,397.87	7,536.95	7,398.25	31.92	34.49	-92.53	-991.70	870.48	580.42	516.38	64.04	9.063		
7,550.00	7,445.09	7,583.79	7,445.09	32.22	34.61	-93.94	-991.70	870.48	581.40	516.70	64.69	8.987		
7,600.00	7,490.72	7,629.41	7,490.72	32.55	34.72	-95.59	-991.70	870.48	583.27	517.85	65.42	8.916		
7,650.00	7,534.38	7,680.10	7,541.35	32.92	34.87	-97.54	-993.58	870.49	586.17	519.98	66.19	8.856		
7,700.00	7,575.77	7,733.88	7,594.68	33.32	35.07	-99.52	-1,000.43	870.53	589.91	522.94	66.97	8.808		
7,750.00	7,614.55	7,790.57	7,649.93	33.75	35.33	-101.47	-1,013.04	870.61	594.39	526.65	67.74	8.774		
7,800.00	7,650.43	7,850.56	7,706.73	34.22	35.64	-103.40	-1,032.25	870.72	599.49	531.01	68.47	8.755		
7,850.00	7,683.15	7,914.23	7,764.46	34.71	36.03	-105.29	-1,059.01	870.88	605.04	535.90	69.14	8.751		
7,900.00	7,712.45	7,981.95	7,822.21	35.23	36.49	-107.11	-1,094.31	871.09	610.83	541.13	69.71	8.763		
7,950.00	7,738.11	8,054.04	7,878.65	35.78	37.04	-108.83	-1,139.09	871.36	616.63	546.49	70.14	8.791		
8,000.00	7,759.93	8,130.66	7,931.97	36.35	37.69	-110.42	-1,194.03	871.68	622.15	551.70	70.45	8.831		
8,050.00	7,777.75	8,211.78	7,979.89	36.93	38.43	-111.81	-1,259.39	872.07	627.08	556.45	70.64	8.878		
8,100.00	7,791.43	8,297.02	8,019.79	37.53	39.28	-112.93	-1,334.63	872.52	631.14	560.37	70.77	8.919		
8,150.00	7,800.87	8,385.65	8,048.97	38.14	40.22	-113.74	-1,418.23	873.01	634.05	563.12	70.93	8.939		
8,200.00	7,806.00	8,476.56	8,065.15	38.76	41.23	-114.17	-1,507.59	873.54	635.61	564.37	71.24	8.922		
8,233.89	7,807.00	8,538.77	8,067.98	39.18	41.93	-114.23	-1,569.70	873.91	635.83	564.24	71.59	8.882		
8,255.12	7,807.00	8,557.72	8,068.00	39.44	42.15	-114.24	-1,588.65	874.02	635.84	563.75	72.09	8.820		
8,300.00	7,807.00	8,602.60	8,068.00	40.00	42.67	-114.24	-1,633.52	874.29	635.84	562.75	73.08	8.700		
8,400.00	7,807.00	8,702.60	8,068.00	41.29	43.85	-114.24	-1,733.52	874.88	635.84	560.46	75.37	8.436		
8,500.00	7,806.99	8,802.59	8,068.00	42.60	45.07	-114.24	-1,833.52	875.47	635.84	558.10	77.73	8.180		
8,600.00	7,806.99	8,902.59	8,067.99	43.95	46.33	-114.24	-1,933.52	876.07	635.84	555.68	80.16	7.932		
8,700.00	7,806.99	9,002.59	8,067.99	45.33	47.62	-114.24	-2,033.51	876.66	635.84	553.19	82.65	7.693		
8,800.00	7,806.99	9,102.59	8,067.99	46.74	48.94	-114.24	-2,133.51	877.26	635.84	550.64	85.19	7.464		

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-20-3N
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-20-3N	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	7,806.98	9,202.59	8,067.99	48.17	50.29	-114.24	-2,233.51	877.85	635.84	548.05	87.78	7.243		
9,000.00	7,806.98	9,302.59	8,067.99	49.62	51.66	-114.24	-2,333.51	878.44	635.84	545.41	90.42	7.032		
9,006.53	7,806.98	9,309.12	8,067.99	49.72	51.75	-114.24	-2,340.04	878.48	635.84	545.24	90.59	7.018		
9,100.00	7,806.98	9,402.59	8,067.99	51.09	53.06	-114.24	-2,433.51	879.04	635.84	542.73	93.10	6.830		
9,200.00	7,806.98	9,502.59	8,067.98	52.59	54.48	-114.24	-2,533.50	879.63	635.84	540.02	95.82	6.636		
9,300.00	7,806.97	9,602.59	8,067.98	54.09	55.92	-114.24	-2,633.50	880.23	635.84	537.26	98.57	6.450		
9,400.00	7,806.97	9,702.59	8,067.98	55.62	57.38	-114.24	-2,733.50	880.82	635.84	534.48	101.36	6.273		
9,500.00	7,806.97	9,802.59	8,067.98	57.16	58.85	-114.24	-2,833.50	881.41	635.84	531.66	104.18	6.103		
9,600.00	7,806.97	9,902.59	8,067.98	58.71	60.34	-114.24	-2,933.49	882.01	635.84	528.82	107.02	5.941		
9,700.00	7,806.96	10,002.59	8,067.98	60.27	61.85	-114.24	-3,033.49	882.60	635.84	525.95	109.89	5.786		
9,800.00	7,806.96	10,102.59	8,067.98	61.84	63.37	-114.24	-3,133.49	883.20	635.84	523.06	112.78	5.638		
9,900.00	7,806.96	10,202.59	8,067.97	63.43	64.90	-114.24	-3,233.49	883.79	635.84	520.14	115.69	5.496		
10,000.00	7,806.96	10,302.59	8,067.97	65.02	66.45	-114.24	-3,333.48	884.39	635.84	517.21	118.63	5.360		
10,100.00	7,806.95	10,402.58	8,067.97	66.63	68.00	-114.24	-3,433.48	884.98	635.84	514.26	121.58	5.230		
10,200.00	7,806.95	10,502.58	8,067.97	68.24	69.57	-114.24	-3,533.48	885.58	635.84	511.29	124.55	5.105		
10,300.00	7,806.95	10,602.58	8,067.97	69.86	71.14	-114.24	-3,633.48	886.17	635.84	508.31	127.54	4.986		
10,400.00	7,806.95	10,702.58	8,067.97	71.49	72.73	-114.24	-3,733.47	886.77	635.84	505.31	130.54	4.871		
10,500.00	7,806.94	10,802.58	8,067.97	73.12	74.32	-114.24	-3,833.47	887.36	635.85	502.29	133.55	4.761		
10,600.00	7,806.94	10,902.58	8,067.97	74.76	75.92	-114.24	-3,933.47	887.96	635.85	499.27	136.58	4.656		
10,700.00	7,806.94	11,002.58	8,067.97	76.41	77.53	-114.24	-4,033.47	888.55	635.85	496.23	139.62	4.554		
10,800.00	7,806.94	11,102.58	8,067.97	78.06	79.15	-114.24	-4,133.46	889.15	635.85	493.18	142.67	4.457		
10,900.00	7,806.93	11,202.58	8,067.96	79.72	80.77	-114.24	-4,233.46	889.74	635.85	490.12	145.73	4.363		
11,000.00	7,806.93	11,302.58	8,067.96	81.38	82.40	-114.24	-4,333.46	890.34	635.85	487.05	148.80	4.273		
11,100.00	7,806.93	11,402.58	8,067.96	83.05	84.03	-114.24	-4,433.46	890.94	635.86	483.97	151.89	4.186		
11,200.00	7,806.93	11,502.58	8,067.96	84.72	85.67	-114.24	-4,533.45	891.53	635.86	480.88	154.98	4.103		
11,300.00	7,806.92	11,602.58	8,067.96	86.39	87.31	-114.24	-4,633.45	892.13	635.86	477.79	158.07	4.023		
11,400.00	7,806.92	11,702.58	8,067.96	88.07	88.96	-114.24	-4,733.45	892.72	635.86	474.68	161.18	3.945		
11,500.00	7,806.92	11,802.58	8,067.96	89.75	90.62	-114.24	-4,833.45	893.32	635.87	471.57	164.29	3.870		
11,600.00	7,806.92	11,902.58	8,067.96	91.44	92.28	-114.24	-4,933.45	893.92	635.87	468.45	167.42	3.798		
11,700.00	7,806.91	12,002.58	8,067.96	93.13	93.94	-114.24	-5,033.44	894.51	635.87	465.33	170.54	3.729		
11,800.00	7,806.91	12,102.57	8,067.96	94.82	95.61	-114.24	-5,133.44	895.11	635.87	462.20	173.68	3.661		
11,900.00	7,806.91	12,202.57	8,067.96	96.52	97.28	-114.24	-5,233.44	895.70	635.88	459.06	176.82	3.596		
12,000.00	7,806.91	12,302.57	8,067.96	98.21	98.95	-114.24	-5,333.44	896.30	635.88	455.92	179.96	3.533		
12,100.00	7,806.90	12,402.57	8,067.96	99.91	100.63	-114.24	-5,433.43	896.90	635.88	452.77	183.11	3.473		
12,200.00	7,806.90	12,502.57	8,067.96	101.62	102.31	-114.24	-5,533.43	897.49	635.89	449.62	186.27	3.414		
12,300.00	7,806.90	12,602.57	8,067.96	103.32	103.99	-114.24	-5,633.43	898.09	635.89	446.46	189.43	3.357		
12,400.00	7,806.90	12,702.57	8,067.96	105.03	105.68	-114.24	-5,733.43	898.69	635.89	443.30	192.59	3.302		
12,500.00	7,806.89	12,802.57	8,067.96	106.74	107.37	-114.24	-5,833.42	899.29	635.90	440.13	195.76	3.248		
12,600.00	7,806.89	12,902.57	8,067.96	108.45	109.06	-114.24	-5,933.42	899.88	635.90	436.96	198.94	3.196		
12,700.00	7,806.89	13,002.57	8,067.96	110.17	110.76	-114.24	-6,033.42	900.48	635.90	433.79	202.11	3.146		
12,800.00	7,806.89	13,102.57	8,067.96	111.88	112.46	-114.24	-6,133.42	901.08	635.91	430.61	205.29	3.098		
12,900.00	7,806.88	13,202.57	8,067.96	113.60	114.15	-114.24	-6,233.41	901.67	635.91	427.43	208.48	3.050		
13,000.00	7,806.88	13,302.57	8,067.96	115.32	115.86	-114.24	-6,333.41	902.27	635.91	424.25	211.67	3.004		
13,100.00	7,806.88	13,402.57	8,067.96	117.04	117.56	-114.24	-6,433.41	902.87	635.92	421.06	214.86	2.960		
13,200.00	7,806.88	13,502.57	8,067.96	118.76	119.27	-114.24	-6,533.41	903.47	635.92	417.87	218.05	2.916		
13,300.00	7,806.87	13,602.57	8,067.96	120.48	120.97	-114.24	-6,633.40	904.06	635.93	414.68	221.25	2.874		
13,400.00	7,806.87	13,702.56	8,067.96	122.21	122.68	-114.24	-6,733.40	904.66	635.93	411.48	224.45	2.833		
13,500.00	7,806.87	13,802.56	8,067.96	123.94	124.39	-114.24	-6,833.40	905.26	635.93	408.28	227.65	2.793		
13,600.00	7,806.87	13,902.56	8,067.96	125.66	126.11	-114.24	-6,933.40	905.86	635.94	405.08	230.86	2.755		
13,700.00	7,806.86	14,002.56	8,067.96	127.39	127.82	-114.24	-7,033.39	906.46	635.94	401.88	234.07	2.717		
13,800.00	7,806.86	14,102.56	8,067.96	129.12	129.54	-114.24	-7,133.39	907.05	635.95	398.67	237.28	2.680		
13,900.00	7,806.86	14,202.56	8,067.96	130.85	131.26	-114.24	-7,233.39	907.65	635.95	395.46	240.49	2.644		

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-20-3N
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-20-3N	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		
14,000.00	7,806.86	14,302.56	8,067.96	132.59	132.98	-114.24	-7,333.39	908.25	635.96	392.25	243.71	2.610		
14,100.00	7,806.85	14,402.56	8,067.96	134.32	134.70	-114.24	-7,433.39	908.85	635.96	389.04	246.92	2.576		
14,200.00	7,806.85	14,502.56	8,067.96	136.06	136.42	-114.24	-7,533.38	909.45	635.97	385.82	250.14	2.542		
14,300.00	7,806.85	14,602.56	8,067.96	137.79	138.14	-114.24	-7,633.38	910.05	635.97	382.61	253.37	2.510		
14,400.00	7,806.85	14,702.56	8,067.96	139.53	139.87	-114.24	-7,733.38	910.65	635.98	379.39	256.59	2.479		
14,500.00	7,806.84	14,802.56	8,067.96	141.27	141.59	-114.24	-7,833.38	911.24	635.98	376.17	259.81	2.448		
14,600.00	7,806.84	14,902.56	8,067.96	143.00	143.32	-114.24	-7,933.37	911.84	635.99	372.95	263.04	2.418		
14,700.00	7,806.84	15,002.56	8,067.96	144.74	145.05	-114.24	-8,033.37	912.44	635.99	369.73	266.27	2.389		
14,800.00	7,806.84	15,102.56	8,067.96	146.48	146.78	-114.24	-8,133.37	913.04	636.00	366.50	269.50	2.360		
14,900.00	7,806.83	15,202.56	8,067.96	148.22	148.51	-114.24	-8,233.37	913.64	636.01	363.27	272.73	2.332		
15,000.00	7,806.83	15,302.55	8,067.96	149.97	150.24	-114.24	-8,333.36	914.24	636.01	360.05	275.96	2.305		
15,100.00	7,806.83	15,402.55	8,067.96	151.71	151.97	-114.24	-8,433.36	914.84	636.02	356.82	279.20	2.278		
15,200.00	7,806.83	15,502.55	8,067.96	153.45	153.70	-114.24	-8,533.36	915.44	636.02	353.59	282.44	2.252		
15,300.00	7,806.82	15,602.55	8,067.97	155.19	155.44	-114.24	-8,633.36	916.04	636.03	350.36	285.67	2.226		
15,400.00	7,806.82	15,702.55	8,067.97	156.94	157.17	-114.24	-8,733.35	916.64	636.04	347.12	288.91	2.201		
15,500.00	7,806.82	15,802.55	8,067.97	158.68	158.91	-114.24	-8,833.35	917.24	636.04	343.89	292.15	2.177		
15,600.00	7,806.82	15,902.55	8,067.97	160.43	160.64	-114.24	-8,933.35	917.84	636.05	340.65	295.39	2.153		
15,700.00	7,806.81	16,002.55	8,067.97	162.18	162.38	-114.24	-9,033.35	918.44	636.06	337.42	298.64	2.130		
15,800.00	7,806.81	16,102.55	8,067.97	163.92	164.12	-114.24	-9,133.34	919.04	636.06	334.18	301.88	2.107		
15,900.00	7,806.81	16,202.55	8,067.97	165.67	165.86	-114.24	-9,233.34	919.64	636.07	330.94	305.13	2.085		
16,000.00	7,806.81	16,302.55	8,067.97	167.42	167.60	-114.24	-9,333.34	920.24	636.08	327.70	308.37	2.063		
16,100.00	7,806.80	16,402.55	8,067.97	169.17	169.34	-114.24	-9,433.34	920.84	636.08	324.46	311.62	2.041		
16,200.00	7,806.80	16,502.55	8,067.97	170.91	171.08	-114.24	-9,533.33	921.44	636.09	321.22	314.87	2.020		
16,300.00	7,806.80	16,602.55	8,067.98	172.66	172.82	-114.24	-9,633.33	922.04	636.10	317.98	318.12	2.000		
16,400.00	7,806.80	16,702.55	8,067.98	174.41	174.56	-114.24	-9,733.33	922.64	636.10	314.74	321.37	1.979		
16,500.00	7,806.79	16,802.55	8,067.98	176.16	176.31	-114.24	-9,833.33	923.24	636.11	311.49	324.62	1.960		
16,600.00	7,806.79	16,902.54	8,067.98	177.92	178.05	-114.24	-9,933.32	923.84	636.12	308.25	327.87	1.940		
16,700.00	7,806.79	17,002.54	8,067.98	179.67	179.79	-114.24	-10,033.32	924.44	636.13	305.00	331.12	1.921		
16,800.00	7,806.79	17,102.54	8,067.98	181.42	181.54	-114.24	-10,133.32	925.04	636.13	301.76	334.38	1.902		
16,900.00	7,806.78	17,202.54	8,067.98	183.17	183.28	-114.24	-10,233.32	925.64	636.14	298.51	337.63	1.884		
17,000.00	7,806.78	17,302.54	8,067.99	184.92	185.03	-114.24	-10,333.31	926.24	636.15	295.26	340.88	1.866		
17,100.00	7,806.78	17,402.54	8,067.99	186.68	186.78	-114.24	-10,433.31	926.85	636.16	292.02	344.14	1.849		
17,200.00	7,806.78	17,502.54	8,067.99	188.43	188.52	-114.24	-10,533.31	927.45	636.16	288.77	347.40	1.831		
17,300.00	7,806.77	17,602.54	8,067.99	190.18	190.27	-114.24	-10,633.31	928.05	636.17	285.52	350.66	1.814		
17,400.00	7,806.77	17,702.54	8,067.99	191.94	192.02	-114.24	-10,733.31	928.65	636.18	282.27	353.91	1.798		
17,500.00	7,806.77	17,802.54	8,067.99	193.69	193.77	-114.24	-10,833.30	929.25	636.19	279.02	357.17	1.781		
17,600.00	7,806.77	17,902.54	8,068.00	195.45	195.51	-114.24	-10,933.30	929.85	636.20	275.77	360.43	1.765		
17,700.00	7,806.76	18,002.54	8,068.00	197.20	197.26	-114.24	-11,033.30	930.45	636.21	272.51	363.69	1.749		
17,800.00	7,806.76	18,102.54	8,068.00	198.96	199.01	-114.24	-11,133.30	931.06	636.21	269.26	366.95	1.734		
17,876.92	7,806.76	18,179.46	8,068.00	200.31	200.36	-114.24	-11,210.21	931.52	636.22	266.76	369.46	1.722		
17,877.44	7,807.00	18,179.98	8,068.00	200.32	200.37	-114.23	-11,210.74	931.52	636.05	266.53	369.52	1.721 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor						
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
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					
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.60	107.97	107.97	104.83	3.14	34.422					
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.60	107.97	107.97	104.12	3.85	28.018					
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.60	107.97	107.97	103.40	4.57	23.623					
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.60	107.97	107.97	102.68	5.29	20.420					
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.60	107.97	107.97	101.97	6.00	17.982					
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.32	-0.60	107.97	107.97	101.25	6.72	16.064					
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.32	-0.60	107.97	107.97	100.53	7.44	14.515	CC, ES				
1,200.00	1,200.00	1,197.27	1,197.26	4.08	4.05	90.91	-1.73	109.17	109.22	101.09	8.13	13.436					
1,300.00	1,300.00	1,294.33	1,294.18	4.44	4.38	92.59	-5.11	112.77	113.04	104.23	8.80	12.840					
1,400.00	1,400.00	1,390.93	1,390.43	4.79	4.71	95.15	-10.70	118.73	119.59	110.12	9.47	12.623					
1,500.00	1,499.98	1,487.05	1,485.88	5.14	5.05	-66.01	-18.47	127.00	128.40	118.28	10.12	12.686					
1,600.00	1,599.84	1,582.77	1,580.49	5.46	5.40	-64.22	-28.37	137.56	138.68	127.93	10.75	12.901					
1,700.00	1,699.45	1,678.05	1,674.14	5.80	5.77	-63.13	-40.38	150.35	150.28	138.90	11.38	13.205					
1,800.00	1,798.70	1,772.86	1,766.69	6.14	6.16	-62.60	-54.43	165.32	163.10	151.08	12.02	13.569					
1,900.00	1,897.47	1,867.16	1,858.02	6.49	6.57	-62.51	-70.48	182.42	177.09	164.42	12.67	13.973					
1,969.08	1,965.35	1,935.54	1,923.97	6.75	6.88	-62.81	-82.86	195.61	186.78	173.59	13.19	14.156					
2,000.00	1,995.66	1,966.16	1,953.50	6.86	7.03	-63.11	-88.40	201.52	190.95	177.52	13.43	14.216					
2,100.00	2,093.69	2,065.20	2,049.00	7.25	7.51	-63.99	-106.34	220.62	204.48	190.26	14.22	14.379					
2,200.00	2,191.72	2,164.23	2,144.51	7.65	8.00	-64.76	-124.27	239.73	218.04	203.01	15.03	14.506					
2,300.00	2,289.76	2,263.27	2,240.02	8.07	8.50	-65.44	-142.20	258.83	231.64	215.78	15.86	14.606					
2,400.00	2,387.79	2,362.30	2,335.52	8.49	9.02	-66.05	-160.13	277.94	245.27	228.57	16.71	14.682					
2,500.00	2,485.82	2,461.34	2,431.03	8.91	9.54	-66.59	-178.06	297.04	258.92	241.36	17.57	14.740					
2,600.00	2,583.86	2,560.37	2,526.54	9.35	10.07	-67.08	-195.99	316.14	272.60	254.16	18.44	14.784					
2,700.00	2,681.89	2,659.41	2,622.04	9.79	10.60	-67.52	-213.93	335.25	286.29	266.97	19.32	14.817					
2,800.00	2,779.92	2,758.44	2,717.55	10.24	11.14	-67.92	-231.86	354.35	299.99	279.78	20.22	14.840					
2,900.00	2,877.96	2,857.48	2,813.06	10.69	11.68	-68.28	-249.79	373.46	313.71	292.60	21.12	14.856					
3,000.00	2,975.99	2,956.52	2,908.56	11.14	12.23	-68.62	-267.72	392.56	327.44	305.42	22.03	14.866					
3,100.00	3,074.02	3,055.55	3,004.07	11.60	12.78	-68.93	-285.65	411.67	341.18	318.24	22.94	14.871					
3,200.00	3,172.06	3,154.59	3,099.57	12.06	13.33	-69.21	-303.58	430.77	354.93	331.07	23.87	14.872					
3,300.00	3,270.09	3,253.62	3,195.08	12.52	13.89	-69.47	-321.52	449.88	368.69	343.90	24.79	14.871					
3,400.00	3,368.12	3,352.66	3,290.59	12.98	14.45	-69.72	-339.45	468.98	382.46	356.73	25.73	14.867					
3,500.00	3,466.16	3,451.69	3,386.09	13.45	15.01	-69.94	-357.38	488.09	396.23	369.57	26.66	14.861					
3,600.00	3,564.19	3,550.73	3,481.60	13.92	15.57	-70.15	-375.31	507.19	410.00	382.40	27.60	14.854					
3,700.00	3,662.23	3,649.76	3,577.11	14.39	16.13	-70.35	-393.24	526.30	423.79	395.24	28.55	14.845					
3,800.00	3,760.26	3,748.80	3,672.61	14.86	16.70	-70.54	-411.17	545.40	437.57	408.08	29.49	14.836					
3,900.00	3,858.29	3,847.84	3,768.12	15.34	17.26	-70.71	-429.11	564.51	451.36	420.92	30.44	14.826					
4,000.00	3,956.33	3,946.87	3,863.63	15.81	17.83	-70.88	-447.04	583.61	465.16	433.76	31.40	14.815					
4,100.00	4,054.36	4,045.91	3,959.13	16.29	18.40	-71.03	-464.97	602.72	478.95	446.60	32.35	14.804					
4,200.00	4,152.39	4,144.94	4,054.64	16.77	18.97	-71.18	-482.90	621.82	492.76	459.44	33.31	14.792					
4,300.00	4,250.43	4,243.98	4,150.15	17.25	19.54	-71.31	-500.83	640.93	506.56	472.29	34.27	14.781					
4,400.00	4,348.46	4,343.01	4,245.65	17.73	20.11	-71.44	-518.76	660.03	520.37	485.13	35.23	14.769					
4,500.00	4,446.49	4,442.05	4,341.16	18.21	20.68	-71.57	-536.70	679.14	534.18	497.98	36.20	14.758					
4,600.00	4,544.53	4,541.08	4,436.67	18.69	21.25	-71.69	-554.63	698.24	547.99	510.83	37.16	14.746					
4,700.00	4,642.56	4,640.12	4,532.17	19.17	21.83	-71.80	-572.56	717.34	561.80	523.67	38.13	14.735					
4,800.00	4,740.59	4,739.15	4,627.68	19.65	22.40	-71.90	-590.49	736.45	575.62	536.52	39.10	14.723					
4,900.00	4,838.63	4,838.19	4,723.19	20.13	22.97	-72.00	-608.42	755.55	589.44	549.37	40.07	14.712					
5,000.00	4,936.66	4,937.23	4,818.69	20.62	23.55	-72.10	-626.35	774.66	603.25	562.22	41.04	14.701					

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-20-3N
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-20-3N	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	5,034.69	5,036.26	4,914.20	21.10	24.12	-72.19	-644.28	793.76	617.08	575.07	42.01	14.689		
5,200.00	5,132.73	5,135.30	5,009.71	21.59	24.70	-72.28	-662.22	812.87	630.90	587.92	42.98	14.679		
5,300.00	5,230.76	5,234.33	5,105.21	22.07	25.27	-72.37	-680.15	831.97	644.72	600.77	43.95	14.668		
5,400.00	5,328.79	5,333.37	5,200.72	22.56	25.85	-72.45	-698.08	851.08	658.55	613.62	44.93	14.657		
5,500.00	5,426.83	5,432.40	5,296.22	23.04	26.43	-72.53	-716.01	870.18	672.37	626.47	45.90	14.647		
5,600.00	5,524.86	5,531.44	5,391.73	23.53	27.00	-72.60	-733.94	889.29	686.20	639.32	46.88	14.637		
5,700.00	5,622.89	5,630.47	5,487.24	24.02	27.58	-72.67	-751.87	908.39	700.03	652.17	47.86	14.627		
5,800.00	5,720.93	5,729.51	5,582.74	24.50	28.16	-72.74	-769.81	927.50	713.86	665.02	48.84	14.617		
5,900.00	5,818.96	5,828.55	5,678.25	24.99	28.74	-72.81	-787.74	946.60	727.69	677.88	49.81	14.608		
6,000.00	5,916.99	5,927.58	5,773.76	25.48	29.31	-72.87	-805.67	965.71	741.52	690.73	50.79	14.599		
6,100.00	6,015.03	6,026.62	5,869.26	25.97	29.89	-72.93	-823.60	984.81	755.36	703.58	51.77	14.590		
6,200.00	6,113.06	6,125.65	5,964.77	26.45	30.47	-72.99	-841.53	1,003.92	769.19	716.43	52.75	14.581		
6,300.00	6,211.09	6,224.69	6,060.28	26.94	31.05	-73.05	-859.46	1,023.02	783.02	729.29	53.74	14.572		
6,400.00	6,309.13	6,323.72	6,155.78	27.43	31.63	-73.10	-877.40	1,042.13	796.86	742.14	54.72	14.563		
6,500.00	6,407.16	6,422.76	6,251.29	27.92	32.21	-73.16	-895.33	1,061.23	810.69	754.99	55.70	14.555		
6,600.00	6,505.19	6,521.79	6,346.80	28.41	32.78	-73.21	-913.26	1,080.34	824.53	767.85	56.68	14.547		
6,664.73	6,568.65	6,594.93	6,417.41	28.73	33.21	-73.26	-926.29	1,094.22	833.30	775.90	57.41	14.516		
6,700.00	6,603.27	6,639.31	6,460.47	28.90	33.45	-73.40	-933.66	1,102.07	837.67	779.84	57.83	14.485		
6,800.00	6,701.84	6,765.65	6,583.87	29.36	34.10	-73.73	-952.13	1,121.75	848.58	789.61	58.97	14.391		
6,900.00	6,800.94	6,892.62	6,708.98	29.78	34.69	-73.99	-966.92	1,137.51	857.27	797.29	59.98	14.292		
7,000.00	6,900.45	7,020.08	6,835.41	30.17	35.21	-74.18	-977.94	1,149.25	863.73	802.85	60.88	14.188		
7,100.00	7,000.24	7,147.89	6,962.78	30.53	35.65	-74.31	-985.11	1,156.89	867.93	806.29	61.64	14.081		
7,200.00	7,100.19	7,275.91	7,090.70	30.85	36.03	-74.36	-988.39	1,160.38	869.84	807.56	62.28	13.967		
7,233.81	7,134.00	7,319.21	7,134.00	30.95	36.14	89.39	-988.62	1,160.62	869.97	807.51	62.46	13.927		
7,300.00	7,200.19	7,385.40	7,200.19	31.12	36.30	89.39	-988.62	1,160.62	869.97	807.16	62.81	13.850		
7,333.81	7,234.00	7,419.21	7,234.00	31.21	36.37	89.39	-988.62	1,160.62	869.97	806.98	62.99	13.811		
7,333.82	7,234.00	7,419.21	7,234.00	31.21	36.37	89.39	-988.62	1,160.62	869.97	806.98	62.99	13.811		
7,350.00	7,250.18	7,435.51	7,250.30	31.26	36.42	-90.27	-988.85	1,160.62	869.97	806.88	63.09	13.790		
7,400.00	7,300.04	7,485.86	7,300.50	31.44	36.57	-90.27	-992.49	1,160.65	869.97	806.53	63.44	13.713		
7,450.00	7,349.39	7,536.21	7,350.19	31.66	36.75	-90.26	-1,000.52	1,160.69	869.97	806.10	63.87	13.621		
7,500.00	7,397.87	7,586.55	7,398.97	31.92	36.97	-90.26	-1,012.88	1,160.77	869.97	805.60	64.37	13.515		
7,550.00	7,445.09	7,636.89	7,446.48	32.22	37.22	-90.25	-1,029.47	1,160.87	869.97	805.02	64.95	13.395		
7,600.00	7,490.72	7,687.21	7,492.33	32.55	37.50	-90.24	-1,050.15	1,160.99	869.97	804.37	65.60	13.262		
7,650.00	7,534.38	7,737.51	7,536.18	32.92	37.81	-90.23	-1,074.77	1,161.14	869.97	803.66	66.32	13.119		
7,700.00	7,575.77	7,787.81	7,577.69	33.32	38.14	-90.21	-1,103.13	1,161.31	869.97	802.88	67.10	12.965		
7,750.00	7,614.55	7,838.08	7,616.55	33.75	38.51	-90.20	-1,135.01	1,161.50	869.98	802.03	67.95	12.804		
7,800.00	7,650.43	7,888.33	7,652.44	34.22	38.89	-90.18	-1,170.16	1,161.71	869.98	801.12	68.86	12.635		
7,850.00	7,683.15	7,938.56	7,685.10	34.71	39.31	-90.17	-1,208.29	1,161.94	869.98	800.16	69.82	12.460		
7,900.00	7,712.45	7,988.76	7,714.29	35.23	39.75	-90.15	-1,249.12	1,162.19	869.98	799.14	70.84	12.281		
7,950.00	7,738.11	8,038.94	7,739.78	35.78	40.21	-90.13	-1,292.32	1,162.44	869.98	798.07	71.91	12.099		
8,000.00	7,759.93	8,089.09	7,761.38	36.35	40.69	-90.11	-1,337.57	1,162.72	869.98	796.97	73.02	11.915		
8,050.00	7,777.75	8,139.21	7,778.94	36.93	41.19	-90.08	-1,384.49	1,163.00	869.99	795.82	74.16	11.731		
8,100.00	7,791.43	8,189.31	7,792.32	37.53	41.70	-90.06	-1,432.75	1,163.29	869.99	794.65	75.34	11.548		
8,150.00	7,800.87	8,239.37	7,801.44	38.14	42.23	-90.04	-1,481.96	1,163.58	869.99	793.46	76.53	11.367		
8,200.00	7,806.00	8,289.41	7,806.22	38.76	42.77	-90.01	-1,531.75	1,163.88	869.99	792.25	77.74	11.191		
8,233.89	7,807.00	8,323.31	7,807.00	39.18	43.13	-90.00	-1,565.63	1,164.09	870.00	791.43	78.56	11.074		
8,300.00	7,807.00	8,389.41	7,807.00	40.00	43.86	-90.00	-1,631.74	1,164.48	870.00	789.81	80.19	10.850		
8,400.00	7,807.00	8,489.41	7,807.00	41.29	45.00	-90.00	-1,731.74	1,165.08	870.00	787.30	82.71	10.519		
8,500.00	7,806.99	8,589.41	7,806.99	42.60	46.18	-90.00	-1,831.73	1,165.68	870.01	784.71	85.30	10.199		
8,600.00	7,806.99	8,689.41	7,806.99	43.95	47.40	-90.00	-1,931.73	1,166.28	870.02	782.05	87.97	9.890		
8,700.00	7,806.99	8,789.41	7,806.99	45.33	48.65	-90.00	-2,031.73	1,166.88	870.02	779.33	90.69	9.594		
8,800.00	7,806.99	8,889.41	7,806.99	46.74	49.93	-90.00	-2,131.73	1,167.48	870.03	776.56	93.46	9.309		

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-20-3N
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-20-3N	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	7,806.98	8,989.41	7,806.98	48.17	51.24	-90.00	-2,231.73	1,168.08	870.03	773.74	96.29	9.035		
9,000.00	7,806.98	9,089.41	7,806.98	49.62	52.58	-90.00	-2,331.73	1,168.68	870.04	770.87	99.17	8.774		
9,100.00	7,806.98	9,189.41	7,806.98	51.09	53.94	-90.00	-2,431.72	1,169.28	870.05	767.96	102.08	8.523		
9,200.00	7,806.98	9,289.41	7,806.98	52.59	55.33	-90.00	-2,531.72	1,169.88	870.05	765.01	105.04	8.283		
9,300.00	7,806.97	9,389.41	7,806.97	54.09	56.74	-90.00	-2,631.72	1,170.48	870.06	762.03	108.03	8.054		
9,400.00	7,806.97	9,489.41	7,806.97	55.62	58.16	-90.00	-2,731.72	1,171.08	870.06	759.01	111.05	7.835		
9,500.00	7,806.97	9,589.41	7,806.97	57.16	59.61	-90.00	-2,831.72	1,171.68	870.07	755.96	114.10	7.625		
9,600.00	7,806.97	9,689.41	7,806.97	58.71	61.08	-90.00	-2,931.71	1,172.28	870.07	752.89	117.19	7.425		
9,700.00	7,806.96	9,789.41	7,806.96	60.27	62.56	-90.00	-3,031.71	1,172.88	870.08	749.79	120.29	7.233		
9,800.00	7,806.96	9,889.41	7,806.96	61.84	64.05	-90.00	-3,131.71	1,173.48	870.09	746.66	123.42	7.050		
9,900.00	7,806.96	9,989.41	7,806.96	63.43	65.56	-90.00	-3,231.71	1,174.08	870.09	743.52	126.58	6.874		
10,000.00	7,806.96	10,089.41	7,806.96	65.02	67.08	-90.00	-3,331.71	1,174.68	870.10	740.35	129.75	6.706		
10,100.00	7,806.95	10,189.41	7,806.96	66.63	68.61	-90.00	-3,431.71	1,175.28	870.10	737.16	132.94	6.545		
10,200.00	7,806.95	10,289.41	7,806.95	68.24	70.16	-90.00	-3,531.70	1,175.88	870.11	733.96	136.15	6.391		
10,300.00	7,806.95	10,389.41	7,806.95	69.86	71.71	-90.00	-3,631.70	1,176.48	870.11	730.74	139.37	6.243		
10,400.00	7,806.95	10,489.41	7,806.95	71.49	73.28	-90.00	-3,731.70	1,177.08	870.12	727.50	142.62	6.101		
10,500.00	7,806.94	10,589.41	7,806.95	73.12	74.86	-90.00	-3,831.70	1,177.68	870.13	724.26	145.87	5.965		
10,600.00	7,806.94	10,689.41	7,806.94	74.76	76.44	-90.00	-3,931.70	1,178.28	870.13	720.99	149.14	5.834		
10,700.00	7,806.94	10,789.41	7,806.94	76.41	78.03	-90.00	-4,031.69	1,178.88	870.14	717.72	152.42	5.709		
10,800.00	7,806.94	10,889.41	7,806.94	78.06	79.63	-90.00	-4,131.69	1,179.48	870.14	714.43	155.71	5.588		
10,900.00	7,806.93	10,989.41	7,806.94	79.72	81.24	-90.00	-4,231.69	1,180.08	870.15	711.13	159.02	5.472		
11,000.00	7,806.93	11,089.41	7,806.93	81.38	82.85	-90.00	-4,331.69	1,180.68	870.15	707.83	162.33	5.360		
11,100.00	7,806.93	11,189.41	7,806.93	83.05	84.47	-90.00	-4,431.69	1,181.28	870.16	704.51	165.65	5.253		
11,200.00	7,806.93	11,289.41	7,806.93	84.72	86.10	-90.00	-4,531.69	1,181.88	870.17	701.18	168.99	5.149		
11,300.00	7,806.92	11,389.41	7,806.93	86.39	87.73	-90.00	-4,631.68	1,182.48	870.17	697.85	172.33	5.050		
11,400.00	7,806.92	11,489.41	7,806.92	88.07	89.36	-90.00	-4,731.68	1,183.08	870.18	694.50	175.68	4.953		
11,500.00	7,806.92	11,589.41	7,806.92	89.75	91.01	-90.00	-4,831.68	1,183.68	870.18	691.15	179.03	4.860		
11,600.00	7,806.92	11,689.41	7,806.92	91.44	92.65	-90.00	-4,931.68	1,184.28	870.19	687.79	182.40	4.771		
11,700.00	7,806.91	11,789.41	7,806.92	93.13	94.30	-90.00	-5,031.68	1,184.89	870.20	684.43	185.77	4.684		
11,800.00	7,806.91	11,889.41	7,806.91	94.82	95.96	-90.00	-5,131.68	1,185.49	870.20	681.06	189.14	4.601		
11,900.00	7,806.91	11,989.41	7,806.91	96.52	97.62	-90.00	-5,231.67	1,186.09	870.21	677.68	192.53	4.520		
12,000.00	7,806.91	12,089.41	7,806.91	98.21	99.28	-90.00	-5,331.67	1,186.69	870.21	674.30	195.92	4.442		
12,100.00	7,806.90	12,189.41	7,806.91	99.91	100.95	-90.00	-5,431.67	1,187.29	870.22	670.91	199.31	4.366		
12,200.00	7,806.90	12,289.41	7,806.90	101.62	102.62	-90.00	-5,531.67	1,187.89	870.22	667.51	202.71	4.293		
12,300.00	7,806.90	12,389.41	7,806.90	103.32	104.30	-90.00	-5,631.67	1,188.49	870.23	664.11	206.12	4.222		
12,400.00	7,806.90	12,489.41	7,806.90	105.03	105.98	-90.00	-5,731.66	1,189.09	870.24	660.71	209.53	4.153		
12,500.00	7,806.89	12,589.41	7,806.90	106.74	107.66	-90.00	-5,831.66	1,189.69	870.24	657.30	212.94	4.087		
12,600.00	7,806.89	12,689.41	7,806.89	108.45	109.34	-90.00	-5,931.66	1,190.29	870.25	653.89	216.36	4.022		
12,700.00	7,806.89	12,789.41	7,806.89	110.17	111.03	-90.00	-6,031.66	1,190.89	870.25	650.47	219.78	3.960		
12,800.00	7,806.89	12,889.41	7,806.89	111.88	112.72	-90.00	-6,131.66	1,191.49	870.26	647.05	223.21	3.899		
12,900.00	7,806.88	12,989.41	7,806.89	113.60	114.41	-90.00	-6,231.66	1,192.09	870.26	643.63	226.64	3.840		
13,000.00	7,806.88	13,089.41	7,806.89	115.32	116.10	-90.00	-6,331.65	1,192.69	870.27	640.20	230.07	3.783		
13,100.00	7,806.88	13,189.41	7,806.88	117.04	117.80	-90.00	-6,431.65	1,193.29	870.28	636.77	233.51	3.727		
13,200.00	7,806.88	13,289.41	7,806.88	118.76	119.50	-90.00	-6,531.65	1,193.89	870.28	633.34	236.95	3.673		
13,300.00	7,806.87	13,389.41	7,806.88	120.48	121.20	-90.00	-6,631.65	1,194.49	870.29	629.90	240.39	3.620		
13,400.00	7,806.87	13,489.41	7,806.88	122.21	122.90	-90.00	-6,731.65	1,195.09	870.29	626.46	243.84	3.569		
13,500.00	7,806.87	13,589.41	7,806.87	123.94	124.61	-90.00	-6,831.64	1,195.69	870.30	623.02	247.28	3.519		
13,600.00	7,806.87	13,689.41	7,806.87	125.66	126.31	-90.00	-6,931.64	1,196.29	870.31	619.57	250.74	3.471		
13,700.00	7,806.86	13,789.41	7,806.87	127.39	128.02	-90.00	-7,031.64	1,196.89	870.31	616.12	254.19	3.424		
13,800.00	7,806.86	13,889.41	7,806.87	129.12	129.73	-90.00	-7,131.64	1,197.49	870.32	612.67	257.65	3.378		
13,900.00	7,806.86	13,989.41	7,806.86	130.85	131.44	-90.00	-7,231.64	1,198.09	870.32	609.22	261.11	3.333		
14,000.00	7,806.86	14,089.41	7,806.86	132.59	133.16	-90.00	-7,331.64	1,198.69	870.33	605.76	264.57	3.290		

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-20-3N
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-20-3N	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		
14,100.00	7,806.85	14,189.41	7,806.86	134.32	134.87	-90.00	-7,431.63	1,199.29	870.33	602.30	268.03	3.247		
14,200.00	7,806.85	14,289.41	7,806.86	136.06	136.59	-90.00	-7,531.63	1,199.89	870.34	598.84	271.50	3.206		
14,300.00	7,806.85	14,389.41	7,806.85	137.79	138.31	-90.00	-7,631.63	1,200.49	870.35	595.38	274.97	3.165		
14,400.00	7,806.85	14,489.41	7,806.85	139.53	140.03	-90.00	-7,731.63	1,201.09	870.35	591.92	278.44	3.126		
14,500.00	7,806.84	14,589.41	7,806.85	141.27	141.75	-90.00	-7,831.63	1,201.69	870.36	588.45	281.91	3.087		
14,600.00	7,806.84	14,689.41	7,806.85	143.00	143.47	-90.00	-7,931.62	1,202.29	870.36	584.98	285.38	3.050		
14,700.00	7,806.84	14,789.41	7,806.84	144.74	145.19	-90.00	-8,031.62	1,202.89	870.37	581.51	288.86	3.013		
14,800.00	7,806.84	14,889.41	7,806.84	146.48	146.92	-90.00	-8,131.62	1,203.49	870.37	578.04	292.33	2.977		
14,900.00	7,806.83	14,989.41	7,806.84	148.22	148.64	-90.00	-8,231.62	1,204.09	870.38	574.57	295.81	2.942		
15,000.00	7,806.83	15,089.41	7,806.84	149.97	150.37	-90.00	-8,331.62	1,204.69	870.39	571.09	299.29	2.908		
15,100.00	7,806.83	15,189.41	7,806.83	151.71	152.10	-90.00	-8,431.62	1,205.29	870.39	567.62	302.77	2.875		
15,200.00	7,806.83	15,289.41	7,806.83	153.45	153.83	-90.00	-8,531.61	1,205.89	870.40	564.14	306.26	2.842		
15,300.00	7,806.82	15,389.41	7,806.83	155.19	155.56	-90.00	-8,631.61	1,206.49	870.40	560.66	309.74	2.810		
15,400.00	7,806.82	15,489.41	7,806.83	156.94	157.29	-90.00	-8,731.61	1,207.09	870.41	557.18	313.23	2.779		
15,500.00	7,806.82	15,589.41	7,806.82	158.68	159.02	-90.00	-8,831.61	1,207.69	870.41	553.70	316.72	2.748		
15,600.00	7,806.82	15,689.41	7,806.82	160.43	160.75	-90.00	-8,931.61	1,208.29	870.42	550.21	320.21	2.718		
15,700.00	7,806.81	15,789.41	7,806.82	162.18	162.48	-90.00	-9,031.60	1,208.89	870.43	546.73	323.70	2.689		
15,800.00	7,806.81	15,889.41	7,806.82	163.92	164.22	-90.00	-9,131.60	1,209.49	870.43	543.24	327.19	2.660		
15,900.00	7,806.81	15,989.41	7,806.81	165.67	165.95	-90.00	-9,231.60	1,210.09	870.44	539.76	330.68	2.632		
16,000.00	7,806.81	16,089.41	7,806.81	167.42	167.69	-90.00	-9,331.60	1,210.69	870.44	536.27	334.17	2.605		
16,100.00	7,806.80	16,189.41	7,806.81	169.17	169.43	-90.00	-9,431.60	1,211.29	870.45	532.78	337.67	2.578		
16,200.00	7,806.80	16,289.41	7,806.81	170.91	171.16	-90.00	-9,531.60	1,211.89	870.46	529.29	341.16	2.551		
16,300.00	7,806.80	16,389.41	7,806.81	172.66	172.90	-90.00	-9,631.59	1,212.49	870.46	525.80	344.66	2.526		
16,400.00	7,806.80	16,489.41	7,806.80	174.41	174.64	-90.00	-9,731.59	1,213.09	870.47	522.31	348.16	2.500		
16,500.00	7,806.79	16,589.41	7,806.80	176.16	176.38	-90.00	-9,831.59	1,213.69	870.47	518.81	351.66	2.475		
16,600.00	7,806.79	16,689.41	7,806.80	177.92	178.12	-90.00	-9,931.59	1,214.29	870.48	515.32	355.16	2.451		
16,700.00	7,806.79	16,789.41	7,806.80	179.67	179.86	-90.00	-10,031.59	1,214.89	870.48	511.82	358.66	2.427		
16,800.00	7,806.79	16,889.41	7,806.79	181.42	181.60	-90.00	-10,131.59	1,215.49	870.49	508.33	362.16	2.404		
16,900.00	7,806.78	16,989.41	7,806.79	183.17	183.35	-90.00	-10,231.58	1,216.09	870.50	504.83	365.66	2.381		
17,000.00	7,806.78	17,089.41	7,806.79	184.92	185.09	-90.00	-10,331.58	1,216.69	870.50	501.33	369.17	2.358		
17,100.00	7,806.78	17,189.41	7,806.79	186.68	186.83	-90.00	-10,431.58	1,217.29	870.51	497.84	372.67	2.336		
17,200.00	7,806.78	17,289.41	7,806.78	188.43	188.58	-90.00	-10,531.58	1,217.89	870.51	494.34	376.18	2.314		
17,300.00	7,806.77	17,389.41	7,806.78	190.18	190.32	-90.00	-10,631.58	1,218.49	870.52	490.84	379.68	2.293		
17,400.00	7,806.77	17,489.41	7,806.78	191.94	192.07	-90.00	-10,731.57	1,219.09	870.52	487.34	383.19	2.272		
17,500.00	7,806.77	17,589.41	7,806.78	193.69	193.81	-90.00	-10,831.57	1,219.69	870.53	483.83	386.70	2.251		
17,600.00	7,806.77	17,689.41	7,806.77	195.45	195.56	-90.00	-10,931.57	1,220.29	870.54	480.33	390.20	2.231		
17,700.00	7,806.76	17,789.41	7,806.77	197.20	197.30	-90.00	-11,031.57	1,220.89	870.54	476.83	393.71	2.211		
17,800.00	7,806.76	17,889.41	7,806.77	198.96	199.05	-90.00	-11,131.57	1,221.49	870.55	473.33	397.22	2.192		
17,877.44	7,807.00	17,968.67	7,806.98	200.32	200.44	-90.00	-11,210.82	1,221.82	870.34	470.41	399.93	2.176 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	535.450		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.80	143.96	143.96	142.97	0.99	146.032		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.80	143.96	143.96	142.26	1.70	84.545		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.80	143.96	143.96	141.54	2.42	59.494		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.80	143.96	143.96	140.82	3.14	45.896		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.80	143.96	143.96	140.10	3.85	37.357		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.80	143.96	143.96	139.39	4.57	31.497		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.80	143.96	143.96	138.67	5.29	27.226		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-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	90.32	-0.80	143.96	143.96	137.24	6.72	21.418	CC, ES	
1,100.00	1,100.00	1,096.09	1,096.07	3.72	3.69	90.70	-1.77	145.24	145.31	137.90	7.41	19.612		
1,200.00	1,200.00	1,191.96	1,191.82	4.08	4.01	91.79	-4.67	149.09	149.39	141.31	8.08	18.485		
1,300.00	1,300.00	1,287.41	1,286.93	4.44	4.34	93.49	-9.47	155.46	156.30	147.54	8.75	17.860		
1,400.00	1,400.00	1,382.22	1,381.09	4.79	4.68	95.61	-16.13	164.29	166.16	156.74	9.41	17.649		
1,500.00	1,499.98	1,476.40	1,474.20	5.14	5.03	-66.05	-24.59	175.52	178.39	168.34	10.05	17.745		
1,600.00	1,599.84	1,570.04	1,566.29	5.46	5.39	-64.62	-34.82	189.10	192.20	181.53	10.67	18.010		
1,700.00	1,699.45	1,663.10	1,657.20	5.80	5.78	-63.77	-46.79	204.97	207.42	196.13	11.29	18.368		
1,800.00	1,798.70	1,755.54	1,746.81	6.14	6.19	-63.39	-60.42	223.06	223.97	212.05	11.92	18.787		
1,900.00	1,897.47	1,847.31	1,835.01	6.49	6.63	-63.36	-75.67	243.29	241.80	229.23	12.56	19.247		
1,969.08	1,965.35	1,913.99	1,898.70	6.75	6.96	-63.59	-87.56	259.06	254.48	241.41	13.07	19.472		
2,000.00	1,995.66	1,944.38	1,927.72	6.86	7.12	-63.85	-92.99	266.27	260.02	246.71	13.31	19.537		
2,100.00	2,093.69	2,042.69	2,021.60	7.25	7.64	-64.64	-110.55	289.57	277.97	263.86	14.10	19.710		
2,200.00	2,191.72	2,141.00	2,115.48	7.65	8.18	-65.33	-128.11	312.87	295.96	281.04	14.92	19.839		
2,300.00	2,289.76	2,239.31	2,209.36	8.07	8.72	-65.94	-145.67	336.17	313.99	298.24	15.75	19.933		
2,400.00	2,387.79	2,337.62	2,303.24	8.49	9.28	-66.49	-163.23	359.47	332.05	315.45	16.60	19.999		
2,500.00	2,485.82	2,435.93	2,397.12	8.91	9.85	-66.98	-180.80	382.77	350.14	332.67	17.47	20.044		
2,600.00	2,583.86	2,534.24	2,491.00	9.35	10.43	-67.42	-198.36	406.07	368.25	349.90	18.35	20.072		
2,700.00	2,681.89	2,632.55	2,584.88	9.79	11.01	-67.82	-215.92	429.37	386.38	367.14	19.23	20.087		
2,800.00	2,779.92	2,730.86	2,678.76	10.24	11.59	-68.18	-233.48	452.67	404.52	384.39	20.13	20.092		
2,900.00	2,877.96	2,829.16	2,772.64	10.69	12.19	-68.51	-251.04	475.97	422.68	401.64	21.04	20.089		
3,000.00	2,975.99	2,927.47	2,866.52	11.14	12.78	-68.82	-268.60	499.27	440.85	418.90	21.96	20.080		
3,100.00	3,074.02	3,025.78	2,960.40	11.60	13.38	-69.10	-286.16	522.58	459.04	436.16	22.88	20.066		
3,200.00	3,172.06	3,124.09	3,054.28	12.06	13.98	-69.36	-303.73	545.88	477.23	453.43	23.80	20.049		
3,300.00	3,270.09	3,222.40	3,148.15	12.52	14.58	-69.60	-321.29	569.18	495.43	470.70	24.74	20.029		
3,400.00	3,368.12	3,320.71	3,242.03	12.98	15.19	-69.82	-338.85	592.48	513.64	487.97	25.67	20.006		
3,500.00	3,466.16	3,419.02	3,335.91	13.45	15.80	-70.03	-356.41	615.78	531.86	505.24	26.62	19.983		
3,600.00	3,564.19	3,517.33	3,429.79	13.92	16.41	-70.22	-373.97	639.08	550.08	522.52	27.56	19.959		
3,700.00	3,662.23	3,615.64	3,523.67	14.39	17.02	-70.41	-391.53	662.38	568.31	539.80	28.51	19.933		
3,800.00	3,760.26	3,713.95	3,617.55	14.86	17.63	-70.58	-409.10	685.68	586.55	557.08	29.46	19.908		
3,900.00	3,858.29	3,812.25	3,711.43	15.34	18.24	-70.74	-426.66	708.98	604.78	574.37	30.42	19.882		
4,000.00	3,956.33	3,910.56	3,805.31	15.81	18.86	-70.89	-444.22	732.28	623.03	591.65	31.38	19.856		
4,100.00	4,054.36	4,008.87	3,899.19	16.29	19.47	-71.03	-461.78	755.58	641.27	608.94	32.34	19.831		
4,200.00	4,152.39	4,107.18	3,993.07	16.77	20.09	-71.17	-479.34	778.88	659.53	626.23	33.30	19.806		
4,300.00	4,250.43	4,205.49	4,086.95	17.25	20.71	-71.29	-496.90	802.18	677.78	643.51	34.26	19.781		
4,400.00	4,348.46	4,303.80	4,180.83	17.73	21.33	-71.41	-514.47	825.49	696.04	660.80	35.23	19.756		
4,500.00	4,446.49	4,402.11	4,274.71	18.21	21.95	-71.53	-532.03	848.79	714.30	678.10	36.20	19.732		
4,600.00	4,544.53	4,500.42	4,368.59	18.69	22.57	-71.64	-549.59	872.09	732.56	695.39	37.17	19.708		
4,700.00	4,642.56	4,601.27	4,462.46	19.17	23.20	-71.74	-567.15	895.39	750.82	712.67	38.15	19.678		
4,800.00	4,740.59	4,697.04	4,556.34	19.65	23.81	-71.84	-584.71	918.69	769.09	729.98	39.12	19.662		
4,900.00	4,838.63	4,804.66	4,650.22	20.13	24.49	-71.93	-602.27	941.99	787.36	747.22	40.14	19.617		
5,000.00	4,936.66	4,906.35	4,744.10	20.62	25.13	-72.02	-619.84	965.29	805.63	764.50	41.13	19.588		

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-20-3N
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-20-3N	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	5,034.69	5,008.04	4,837.98	21.10	25.78	-72.11	-637.40	988.59	823.90	781.78	42.12	19.559		
5,200.00	5,132.73	5,109.73	4,931.86	21.59	26.42	-72.19	-654.96	1,011.89	842.18	799.06	43.12	19.532		
5,300.00	5,230.76	5,188.58	5,025.74	22.07	26.92	-72.27	-672.52	1,035.19	860.46	816.46	44.00	19.556		
5,400.00	5,328.79	5,286.89	5,119.62	22.56	27.54	-72.34	-690.08	1,058.49	878.73	833.76	44.98	19.537		
5,500.00	5,426.83	5,385.20	5,213.50	23.04	28.17	-72.42	-707.64	1,081.79	897.01	851.05	45.96	19.518		
5,600.00	5,524.86	5,483.51	5,307.38	23.53	28.79	-72.48	-725.21	1,105.09	915.29	868.35	46.94	19.499		
5,700.00	5,622.89	5,581.82	5,401.26	24.02	29.42	-72.55	-742.77	1,128.39	933.58	885.65	47.92	19.481		
5,800.00	5,720.93	5,680.13	5,495.14	24.50	30.04	-72.62	-760.33	1,151.70	951.86	902.95	48.91	19.463		
5,900.00	5,818.96	5,778.43	5,589.02	24.99	30.67	-72.68	-777.89	1,175.00	970.14	920.25	49.89	19.446		
6,000.00	5,916.99	5,876.74	5,682.90	25.48	31.29	-72.74	-795.45	1,198.30	988.43	937.55	50.87	19.429		
6,100.00	6,015.03	5,975.05	5,776.77	25.97	31.92	-72.79	-813.01	1,221.60	1,006.71	954.85	51.86	19.412		
6,200.00	6,113.06	6,073.36	5,870.65	26.45	32.54	-72.85	-830.57	1,244.90	1,025.00	972.16	52.84	19.396		
6,300.00	6,211.09	6,171.67	5,964.53	26.94	33.17	-72.90	-848.14	1,268.20	1,043.29	989.46	53.83	19.381		
6,400.00	6,309.13	6,269.98	6,058.41	27.43	33.79	-72.95	-865.70	1,291.50	1,061.58	1,006.76	54.82	19.366		
6,500.00	6,407.16	6,368.29	6,152.29	27.92	34.42	-73.00	-883.26	1,314.80	1,079.87	1,024.06	55.81	19.351		
6,600.00	6,505.19	6,466.60	6,246.17	28.41	35.05	-73.05	-900.82	1,338.10	1,098.16	1,041.37	56.79	19.336		
6,664.73	6,568.65	6,541.03	6,317.32	28.73	35.51	-73.09	-913.99	1,355.58	1,109.88	1,052.34	57.54	19.290		
6,700.00	6,603.27	6,591.31	6,365.63	28.90	35.82	-73.25	-922.37	1,366.69	1,115.81	1,057.79	58.02	19.230		
6,800.00	6,701.84	6,734.87	6,504.84	29.36	36.62	-73.63	-943.45	1,394.66	1,130.66	1,071.35	59.31	19.064		
6,900.00	6,800.94	6,879.76	6,646.93	29.78	37.33	-73.93	-960.44	1,417.20	1,142.52	1,082.08	60.44	18.903		
7,000.00	6,900.45	7,025.68	6,791.30	30.17	37.94	-74.16	-973.16	1,434.08	1,151.34	1,089.92	61.42	18.746		
7,100.00	7,000.24	7,172.34	6,937.29	30.53	38.46	-74.30	-981.47	1,445.11	1,157.08	1,094.85	62.23	18.593		
7,200.00	7,100.19	7,319.43	7,084.23	30.85	38.88	-74.36	-985.28	1,450.17	1,159.70	1,096.82	62.88	18.443		
7,233.81	7,134.00	7,369.20	7,134.00	30.95	39.00	89.39	-985.54	1,450.51	1,159.88	1,096.82	63.06	18.394		
7,300.00	7,200.19	7,435.39	7,200.19	31.12	39.14	89.39	-985.54	1,450.51	1,159.88	1,096.48	63.40	18.294		
7,333.81	7,234.00	7,469.20	7,234.00	31.21	39.22	89.39	-985.54	1,450.51	1,159.88	1,096.30	63.58	18.243		
7,350.00	7,250.18	7,485.54	7,250.34	31.26	39.26	-90.27	-985.78	1,450.51	1,159.88	1,096.20	63.67	18.216		
7,400.00	7,300.04	7,536.01	7,300.65	31.44	39.40	-90.27	-989.43	1,450.53	1,159.88	1,095.86	64.02	18.118		
7,450.00	7,349.39	7,586.47	7,350.45	31.66	39.57	-90.26	-997.50	1,450.58	1,159.88	1,095.44	64.44	17.999		
7,500.00	7,397.87	7,636.93	7,399.34	31.92	39.77	-90.26	-1,009.92	1,450.66	1,159.88	1,094.94	64.94	17.861		
7,550.00	7,445.09	7,687.37	7,446.93	32.22	40.00	-90.25	-1,026.58	1,450.76	1,159.88	1,094.37	65.51	17.706		
7,600.00	7,490.72	7,737.79	7,492.86	32.55	40.25	-90.24	-1,047.35	1,450.88	1,159.88	1,093.73	66.15	17.535		
7,650.00	7,534.38	7,788.20	7,536.77	32.92	40.54	-90.23	-1,072.07	1,451.03	1,159.88	1,093.03	66.85	17.349		
7,700.00	7,575.77	7,838.59	7,578.33	33.32	40.84	-90.21	-1,100.54	1,451.20	1,159.88	1,092.25	67.63	17.151		
7,750.00	7,614.55	7,888.95	7,617.20	33.75	41.18	-90.20	-1,132.53	1,451.40	1,159.88	1,091.42	68.46	16.941		
7,800.00	7,650.43	7,939.28	7,653.10	34.22	41.54	-90.18	-1,167.79	1,451.61	1,159.88	1,090.52	69.36	16.722		
7,850.00	7,683.15	7,989.59	7,685.74	34.71	41.92	-90.17	-1,206.04	1,451.84	1,159.89	1,089.57	70.32	16.495		
7,900.00	7,712.45	8,039.86	7,714.89	35.23	42.32	-90.15	-1,246.97	1,452.09	1,159.89	1,088.56	71.32	16.262		
7,950.00	7,738.11	8,090.09	7,740.32	35.78	42.74	-90.13	-1,290.28	1,452.35	1,159.89	1,087.51	72.38	16.025		
8,000.00	7,759.93	8,140.29	7,761.85	36.35	43.19	-90.11	-1,335.61	1,452.62	1,159.89	1,086.42	73.48	15.786		
8,050.00	7,777.75	8,190.46	7,779.32	36.93	43.65	-90.08	-1,382.61	1,452.90	1,159.90	1,085.28	74.61	15.546		
8,100.00	7,791.43	8,240.58	7,792.61	37.53	44.12	-90.06	-1,430.92	1,453.19	1,159.90	1,084.12	75.78	15.307		
8,150.00	7,800.87	8,290.66	7,801.62	38.14	44.61	-90.04	-1,480.17	1,453.49	1,159.90	1,082.94	76.96	15.071		
8,200.00	7,806.00	8,340.71	7,806.29	38.76	45.11	-90.01	-1,529.98	1,453.79	1,159.91	1,081.75	78.16	14.841		
8,233.89	7,807.00	8,374.61	7,807.00	39.18	45.46	-90.00	-1,563.87	1,453.99	1,159.91	1,080.94	78.97	14.688		
8,300.00	7,807.00	8,440.71	7,807.00	40.00	46.14	-90.00	-1,629.97	1,454.39	1,159.91	1,079.33	80.58	14.394		
8,400.00	7,807.00	8,540.71	7,807.00	41.29	47.21	-90.00	-1,729.97	1,454.99	1,159.92	1,076.84	83.09	13.961		
8,500.00	7,806.99	8,640.71	7,807.00	42.60	48.32	-90.00	-1,829.97	1,455.60	1,159.93	1,074.27	85.66	13.541		
8,600.00	7,806.99	8,740.71	7,807.00	43.95	49.46	-90.00	-1,929.97	1,456.20	1,159.94	1,071.64	88.30	13.136		
8,700.00	7,806.99	8,840.71	7,806.99	45.33	50.65	-90.00	-2,029.97	1,456.80	1,159.95	1,068.94	91.01	12.746		
8,800.00	7,806.99	8,940.71	7,806.99	46.74	51.87	-90.00	-2,129.96	1,457.40	1,159.95	1,066.19	93.77	12.371		
8,900.00	7,806.98	9,040.71	7,806.99	48.17	53.12	-90.00	-2,229.96	1,458.01	1,159.96	1,063.38	96.58	12.011		

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-20-3N
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-20-3N	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	7,806.98	9,140.71	7,806.99	49.62	54.40	-90.00	-2,329.96	1,458.61	1,159.97	1,060.53	99.44	11.666		
9,100.00	7,806.98	9,240.71	7,806.99	51.09	55.70	-90.00	-2,429.96	1,459.21	1,159.98	1,057.64	102.34	11.335		
9,200.00	7,806.98	9,340.71	7,806.99	52.59	57.03	-90.00	-2,529.96	1,459.81	1,159.99	1,054.71	105.28	11.018		
9,300.00	7,806.97	9,440.71	7,806.99	54.09	58.39	-90.00	-2,629.96	1,460.41	1,159.99	1,051.74	108.25	10.716		
9,400.00	7,806.97	9,540.71	7,806.99	55.62	59.77	-90.00	-2,729.95	1,461.02	1,160.00	1,048.74	111.26	10.426		
9,500.00	7,806.97	9,640.71	7,806.98	57.16	61.16	-90.00	-2,829.95	1,461.62	1,160.01	1,045.70	114.30	10.148		
9,600.00	7,806.97	9,740.71	7,806.98	58.71	62.58	-90.00	-2,929.95	1,462.22	1,160.02	1,042.64	117.37	9.883		
9,700.00	7,806.96	9,840.71	7,806.98	60.27	64.02	-90.00	-3,029.95	1,462.82	1,160.03	1,039.56	120.47	9.629		
9,800.00	7,806.96	9,940.71	7,806.98	61.84	65.47	-90.00	-3,129.95	1,463.43	1,160.03	1,036.44	123.59	9.386		
9,900.00	7,806.96	10,040.71	7,806.98	63.43	66.94	-90.00	-3,229.94	1,464.03	1,160.04	1,033.31	126.73	9.154		
10,000.00	7,806.96	10,140.71	7,806.98	65.02	68.42	-90.00	-3,329.94	1,464.63	1,160.05	1,030.15	129.89	8.931		
10,100.00	7,806.95	10,240.71	7,806.98	66.63	69.91	-90.00	-3,429.94	1,465.23	1,160.06	1,026.98	133.08	8.717		
10,200.00	7,806.95	10,340.71	7,806.97	68.24	71.42	-90.00	-3,529.94	1,465.83	1,160.06	1,023.79	136.28	8.513		
10,300.00	7,806.95	10,440.71	7,806.97	69.86	72.94	-90.00	-3,629.94	1,466.44	1,160.07	1,020.58	139.49	8.316		
10,400.00	7,806.95	10,540.71	7,806.97	71.49	74.47	-90.00	-3,729.94	1,467.04	1,160.08	1,017.35	142.73	8.128		
10,500.00	7,806.94	10,640.71	7,806.97	73.12	76.02	-90.00	-3,829.93	1,467.64	1,160.09	1,014.12	145.97	7.947		
10,600.00	7,806.94	10,740.71	7,806.97	74.76	77.57	-90.00	-3,929.93	1,468.24	1,160.10	1,010.86	149.23	7.774		
10,700.00	7,806.94	10,840.71	7,806.97	76.41	79.13	-90.00	-4,029.93	1,468.85	1,160.10	1,007.60	152.51	7.607		
10,800.00	7,806.94	10,940.71	7,806.97	78.06	80.70	-90.00	-4,129.93	1,469.45	1,160.11	1,004.32	155.79	7.447		
10,900.00	7,806.93	11,040.71	7,806.97	79.72	82.28	-90.00	-4,229.93	1,470.05	1,160.12	1,001.03	159.09	7.292		
11,000.00	7,806.93	11,140.71	7,806.96	81.38	83.87	-90.00	-4,329.92	1,470.65	1,160.13	997.73	162.40	7.144		
11,100.00	7,806.93	11,240.71	7,806.96	83.05	85.46	-90.00	-4,429.92	1,471.25	1,160.14	994.42	165.71	7.001		
11,200.00	7,806.93	11,340.71	7,806.96	84.72	87.06	-90.00	-4,529.92	1,471.86	1,160.14	991.10	169.04	6.863		
11,300.00	7,806.92	11,440.71	7,806.96	86.39	88.67	-90.00	-4,629.92	1,472.46	1,160.15	987.78	172.37	6.730		
11,400.00	7,806.92	11,540.71	7,806.96	88.07	90.28	-90.00	-4,729.92	1,473.06	1,160.16	984.44	175.72	6.602		
11,500.00	7,806.92	11,640.71	7,806.96	89.75	91.90	-90.00	-4,829.92	1,473.66	1,160.17	981.10	179.07	6.479		
11,600.00	7,806.92	11,740.71	7,806.96	91.44	93.53	-90.00	-4,929.91	1,474.27	1,160.18	977.75	182.43	6.360		
11,700.00	7,806.91	11,840.71	7,806.96	93.13	95.16	-90.00	-5,029.91	1,474.87	1,160.18	974.39	185.79	6.244		
11,800.00	7,806.91	11,940.71	7,806.95	94.82	96.79	-90.00	-5,129.91	1,475.47	1,160.19	971.03	189.16	6.133		
11,900.00	7,806.91	12,040.71	7,806.95	96.52	98.44	-90.00	-5,229.91	1,476.07	1,160.20	967.66	192.54	6.026		
12,000.00	7,806.91	12,140.71	7,806.95	98.21	100.08	-90.00	-5,329.91	1,476.67	1,160.21	964.28	195.93	5.922		
12,100.00	7,806.90	12,240.71	7,806.95	99.91	101.73	-90.00	-5,429.90	1,477.28	1,160.21	960.90	199.32	5.821		
12,200.00	7,806.90	12,340.71	7,806.95	101.62	103.38	-90.00	-5,529.90	1,477.88	1,160.22	957.51	202.71	5.723		
12,300.00	7,806.90	12,440.71	7,806.95	103.32	105.04	-90.00	-5,629.90	1,478.48	1,160.23	954.12	206.11	5.629		
12,400.00	7,806.90	12,540.71	7,806.95	105.03	106.70	-90.00	-5,729.90	1,479.08	1,160.24	950.72	209.52	5.538		
12,500.00	7,806.89	12,640.71	7,806.95	106.74	108.37	-90.00	-5,829.90	1,479.69	1,160.25	947.32	212.93	5.449		
12,600.00	7,806.89	12,740.71	7,806.94	108.45	110.03	-90.00	-5,929.90	1,480.29	1,160.25	943.91	216.34	5.363		
12,700.00	7,806.89	12,840.71	7,806.94	110.17	111.71	-90.00	-6,029.89	1,480.89	1,160.26	940.50	219.76	5.280		
12,800.00	7,806.89	12,940.71	7,806.94	111.88	113.38	-90.00	-6,129.89	1,481.49	1,160.27	937.09	223.18	5.199		
12,900.00	7,806.88	13,040.71	7,806.94	113.60	115.06	-90.00	-6,229.89	1,482.09	1,160.28	933.67	226.61	5.120		
13,000.00	7,806.88	13,140.71	7,806.94	115.32	116.74	-90.00	-6,329.89	1,482.70	1,160.29	930.25	230.04	5.044		
13,100.00	7,806.88	13,240.71	7,806.94	117.04	118.42	-90.00	-6,429.89	1,483.30	1,160.29	926.82	233.47	4.970		
13,200.00	7,806.88	13,340.71	7,806.94	118.76	120.11	-90.00	-6,529.88	1,483.90	1,160.30	923.39	236.91	4.898		
13,300.00	7,806.87	13,440.71	7,806.94	120.48	121.79	-90.00	-6,629.88	1,484.50	1,160.31	919.96	240.35	4.828		
13,400.00	7,806.87	13,540.71	7,806.93	122.21	123.48	-90.00	-6,729.88	1,485.10	1,160.32	916.53	243.79	4.759		
13,500.00	7,806.87	13,640.71	7,806.93	123.94	125.18	-90.00	-6,829.88	1,485.71	1,160.33	913.09	247.24	4.693		
13,600.00	7,806.87	13,740.71	7,806.93	125.66	126.87	-90.00	-6,929.88	1,486.31	1,160.33	909.65	250.69	4.629		
13,700.00	7,806.86	13,840.71	7,806.93	127.39	128.57	-90.00	-7,029.88	1,486.91	1,160.34	906.20	254.14	4.566		
13,800.00	7,806.86	13,940.71	7,806.93	129.12	130.27	-90.00	-7,129.87	1,487.51	1,160.35	902.76	257.59	4.505		
13,900.00	7,806.86	14,040.71	7,806.93	130.85	131.97	-90.00	-7,229.87	1,488.12	1,160.36	899.31	261.05	4.445		
14,000.00	7,806.86	14,140.71	7,806.93	132.59	133.67	-90.00	-7,329.87	1,488.72	1,160.36	895.86	264.51	4.387		
14,100.00	7,806.85	14,240.71	7,806.92	134.32	135.38	-90.00	-7,429.87	1,489.32	1,160.37	892.41	267.97	4.330		

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-20-3N
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-20-3N	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	7,806.85	14,340.71	7,806.92	136.06	137.08	-90.00	-7,529.87	1,489.92	1,160.38	888.95	271.43	4.275		
14,300.00	7,806.85	14,440.71	7,806.92	137.79	138.79	-90.00	-7,629.87	1,490.52	1,160.39	885.49	274.90	4.221		
14,400.00	7,806.85	14,540.71	7,806.92	139.53	140.50	-90.00	-7,729.86	1,491.13	1,160.40	882.03	278.36	4.169		
14,500.00	7,806.84	14,640.71	7,806.92	141.27	142.21	-90.00	-7,829.86	1,491.73	1,160.40	878.57	281.83	4.117		
14,600.00	7,806.84	14,740.71	7,806.92	143.00	143.93	-90.00	-7,929.86	1,492.33	1,160.41	875.11	285.30	4.067		
14,700.00	7,806.84	14,840.71	7,806.92	144.74	145.64	-90.00	-8,029.86	1,492.93	1,160.42	871.64	288.78	4.018		
14,800.00	7,806.84	14,940.71	7,806.92	146.48	147.36	-90.00	-8,129.86	1,493.54	1,160.43	868.18	292.25	3.971		
14,900.00	7,806.83	15,040.71	7,806.91	148.22	149.07	-90.00	-8,229.85	1,494.14	1,160.44	864.71	295.73	3.924		
15,000.00	7,806.83	15,140.71	7,806.91	149.97	150.79	-90.00	-8,329.85	1,494.74	1,160.44	861.24	299.21	3.878		
15,100.00	7,806.83	15,240.71	7,806.91	151.71	152.51	-90.00	-8,429.85	1,495.34	1,160.45	857.77	302.69	3.834		
15,200.00	7,806.83	15,340.71	7,806.91	153.45	154.23	-90.00	-8,529.85	1,495.94	1,160.46	854.29	306.17	3.790		
15,300.00	7,806.82	15,440.71	7,806.91	155.19	155.95	-90.00	-8,629.85	1,496.55	1,160.47	850.82	309.65	3.748		
15,400.00	7,806.82	15,540.71	7,806.91	156.94	157.68	-90.00	-8,729.85	1,497.15	1,160.47	847.34	313.13	3.706		
15,500.00	7,806.82	15,640.71	7,806.91	158.68	159.40	-90.00	-8,829.84	1,497.75	1,160.48	843.86	316.62	3.665		
15,600.00	7,806.82	15,740.71	7,806.91	160.43	161.13	-90.00	-8,929.84	1,498.35	1,160.49	840.39	320.11	3.625		
15,700.00	7,806.81	15,840.71	7,806.90	162.18	162.85	-90.00	-9,029.84	1,498.96	1,160.50	836.91	323.59	3.586		
15,800.00	7,806.81	15,940.71	7,806.90	163.92	164.58	-90.00	-9,129.84	1,499.56	1,160.51	833.42	327.08	3.548		
15,900.00	7,806.81	16,040.71	7,806.90	165.67	166.31	-90.00	-9,229.84	1,500.16	1,160.51	829.94	330.57	3.511		
16,000.00	7,806.81	16,140.71	7,806.90	167.42	168.04	-90.00	-9,329.83	1,500.76	1,160.52	826.46	334.07	3.474		
16,100.00	7,806.80	16,240.71	7,806.90	169.17	169.77	-90.00	-9,429.83	1,501.36	1,160.53	822.97	337.56	3.438		
16,200.00	7,806.80	16,340.71	7,806.90	170.91	171.50	-90.00	-9,529.83	1,501.97	1,160.54	819.49	341.05	3.403		
16,300.00	7,806.80	16,440.71	7,806.90	172.66	173.23	-90.00	-9,629.83	1,502.57	1,160.55	816.00	344.55	3.368		
16,400.00	7,806.80	16,540.71	7,806.90	174.41	174.96	-90.00	-9,729.83	1,503.17	1,160.55	812.51	348.04	3.335		
16,500.00	7,806.79	16,640.71	7,806.89	176.16	176.70	-90.00	-9,829.83	1,503.77	1,160.56	809.02	351.54	3.301		
16,600.00	7,806.79	16,740.71	7,806.89	177.92	178.43	-90.00	-9,929.82	1,504.38	1,160.57	805.53	355.04	3.269		
16,700.00	7,806.79	16,840.71	7,806.89	179.67	180.16	-90.01	-10,029.82	1,504.98	1,160.58	802.04	358.54	3.237		
16,800.00	7,806.79	16,940.71	7,806.89	181.42	181.90	-90.01	-10,129.82	1,505.58	1,160.59	798.55	362.04	3.206		
16,900.00	7,806.78	17,040.71	7,806.89	183.17	183.64	-90.01	-10,229.82	1,506.18	1,160.59	795.06	365.54	3.175		
17,000.00	7,806.78	17,140.71	7,806.89	184.92	185.37	-90.01	-10,329.82	1,506.78	1,160.60	791.56	369.04	3.145		
17,100.00	7,806.78	17,240.71	7,806.89	186.68	187.11	-90.01	-10,429.81	1,507.39	1,160.61	788.07	372.54	3.115		
17,200.00	7,806.78	17,340.71	7,806.89	188.43	188.85	-90.01	-10,529.81	1,507.99	1,160.62	784.57	376.05	3.086		
17,300.00	7,806.77	17,440.71	7,806.88	190.18	190.59	-90.01	-10,629.81	1,508.59	1,160.62	781.07	379.55	3.058		
17,400.00	7,806.77	17,540.71	7,806.88	191.94	192.33	-90.01	-10,729.81	1,509.19	1,160.63	777.58	383.05	3.030		
17,500.00	7,806.77	17,640.71	7,806.88	193.69	194.07	-90.01	-10,829.81	1,509.80	1,160.64	774.08	386.56	3.002		
17,600.00	7,806.77	17,740.71	7,806.88	195.45	195.81	-90.01	-10,929.81	1,510.40	1,160.65	770.58	390.07	2.976		
17,700.00	7,806.76	17,840.71	7,806.88	197.20	197.55	-90.01	-11,029.80	1,511.00	1,160.66	767.08	393.57	2.949		
17,800.00	7,806.76	17,940.71	7,806.88	198.96	199.29	-90.01	-11,129.80	1,511.60	1,160.66	763.58	397.08	2.923		
17,877.44	7,807.00	18,029.43	7,807.01	200.32	200.84	-90.00	-11,218.52	1,511.85	1,160.36	760.63	399.73	2.903 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.10	197.94	197.94					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.10	197.94	197.94	197.68	0.27	736.251		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.10	197.94	197.94	196.96	0.99	200.796		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.10	197.94	197.94	196.24	1.70	116.250		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.10	197.94	197.94	195.52	2.42	81.806		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.10	197.94	197.94	194.81	3.14	63.107		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-1.10	197.94	197.94	194.09	3.85	51.366		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-1.10	197.94	197.94	193.37	4.57	43.309 CC, ES		
800.00	800.00	793.97	793.95	2.64	2.61	90.49	-1.70	199.36	199.46	194.21	5.25	37.965		
900.00	900.00	887.74	887.60	3.00	2.93	90.98	-3.50	203.61	204.01	198.09	5.93	34.423		
1,000.00	1,000.00	981.10	980.65	3.36	3.26	91.76	-6.46	210.64	211.62	205.03	6.60	32.079		
1,100.00	1,100.00	1,073.87	1,072.81	3.72	3.60	92.75	-10.58	220.38	222.31	215.04	7.26	30.609		
1,200.00	1,200.00	1,165.86	1,163.81	4.08	3.95	93.88	-15.80	232.76	236.09	228.16	7.92	29.800		
1,300.00	1,300.00	1,256.89	1,253.39	4.44	4.32	95.10	-22.09	247.65	252.96	244.39	8.57	29.503		
1,400.00	1,400.00	1,346.80	1,341.32	4.79	4.70	96.33	-29.38	264.92	272.93	263.72	9.21	29.618		
1,500.00	1,499.98	1,435.66	1,427.60	5.14	5.11	-66.09	-37.64	284.48	295.27	285.44	9.83	30.045		
1,600.00	1,599.84	1,523.62	1,512.32	5.46	5.54	-65.26	-46.83	306.27	319.18	308.76	10.42	30.631		
1,700.00	1,699.45	1,610.61	1,595.35	5.80	6.01	-64.83	-56.92	330.15	344.54	333.53	11.01	31.283		
1,800.00	1,798.70	1,696.56	1,676.58	6.14	6.50	-64.72	-67.84	356.02	371.30	359.68	11.61	31.970		
1,900.00	1,897.47	1,781.41	1,755.91	6.49	7.03	-64.84	-79.55	383.76	399.42	387.19	12.23	32.666		
1,969.08	1,965.35	1,839.36	1,809.56	6.75	7.42	-65.02	-88.07	403.93	419.65	406.99	12.66	33.143		
2,000.00	1,995.66	1,865.11	1,833.25	6.86	7.60	-65.29	-91.99	413.22	428.98	416.12	12.86	33.362		
2,100.00	2,093.69	1,947.46	1,908.41	7.25	8.20	-66.01	-105.08	444.23	460.94	447.43	13.51	34.127		
2,200.00	2,191.72	2,031.63	1,984.24	7.65	8.84	-66.57	-119.29	477.89	495.44	481.24	14.20	34.889		
2,300.00	2,289.76	2,125.11	2,068.14	8.07	9.60	-67.09	-135.32	515.86	530.68	515.65	15.04	35.291		
2,400.00	2,387.79	2,218.59	2,152.04	8.49	10.37	-67.55	-151.35	553.83	565.97	550.07	15.89	35.611		
2,500.00	2,485.82	2,312.07	2,235.94	8.91	11.16	-67.95	-167.38	591.81	601.28	584.51	16.76	35.865		
2,600.00	2,583.86	2,405.55	2,319.85	9.35	11.96	-68.31	-183.41	629.78	636.61	618.96	17.65	36.067		
2,700.00	2,681.89	2,500.97	2,403.75	9.79	12.78	-68.63	-199.44	667.76	671.96	653.40	18.56	36.207		
2,800.00	2,779.92	2,607.49	2,487.65	10.24	13.71	-68.91	-215.48	705.73	707.33	687.79	19.54	36.208		
2,900.00	2,877.96	2,685.99	2,571.55	10.69	14.40	-69.17	-231.51	743.70	742.71	722.34	20.38	36.451		
3,000.00	2,975.99	2,779.47	2,655.45	11.14	15.23	-69.41	-247.54	781.68	778.11	756.81	21.30	36.527		
3,100.00	3,074.02	2,872.95	2,739.36	11.60	16.06	-69.63	-263.57	819.65	813.51	791.28	22.24	36.586		
3,200.00	3,172.06	2,966.43	2,823.26	12.06	16.89	-69.83	-279.60	857.62	848.93	825.75	23.18	36.630		
3,300.00	3,270.09	3,059.91	2,907.16	12.52	17.73	-70.01	-295.63	895.60	884.35	860.23	24.12	36.663		
3,400.00	3,368.12	3,153.39	2,991.06	12.98	18.57	-70.18	-311.66	933.57	919.78	894.71	25.07	36.686		
3,500.00	3,466.16	3,246.87	3,074.96	13.45	19.42	-70.33	-327.70	971.54	955.22	929.19	26.03	36.701		
3,600.00	3,564.19	3,340.36	3,158.87	13.92	20.26	-70.48	-343.73	1,009.52	990.66	963.67	26.99	36.709		
3,700.00	3,662.23	3,433.84	3,242.77	14.39	21.11	-70.61	-359.76	1,047.49	1,026.11	998.16	27.95	36.712		
3,800.00	3,760.26	3,527.32	3,326.67	14.86	21.96	-70.74	-375.79	1,085.46	1,061.56	1,032.64	28.92	36.711		
3,900.00	3,858.29	3,620.80	3,410.57	15.34	22.81	-70.86	-391.82	1,123.44	1,097.02	1,067.13	29.89	36.706		
4,000.00	3,956.33	3,714.28	3,494.47	15.81	23.66	-70.97	-407.85	1,161.41	1,132.48	1,101.62	30.86	36.699		
4,100.00	4,054.36	3,807.76	3,578.38	16.29	24.51	-71.07	-423.88	1,199.39	1,167.94	1,136.11	31.83	36.689		
4,200.00	4,152.39	3,901.24	3,662.28	16.77	25.36	-71.17	-439.91	1,237.36	1,203.41	1,170.60	32.81	36.677		
4,300.00	4,250.43	4,005.28	3,746.18	17.25	26.31	-71.26	-455.95	1,275.33	1,238.88	1,205.03	33.85	36.599		
4,400.00	4,348.46	4,088.20	3,830.08	17.73	27.07	-71.35	-471.98	1,313.31	1,274.35	1,239.58	34.77	36.648		
4,500.00	4,446.49	4,181.68	3,913.98	18.21	27.93	-71.43	-488.01	1,351.28	1,309.82	1,274.07	35.76	36.632		
4,600.00	4,544.53	4,275.16	3,997.89	18.69	28.78	-71.51	-504.04	1,389.25	1,345.30	1,308.56	36.74	36.615		
4,700.00	4,642.56	4,368.64	4,081.79	19.17	29.64	-71.58	-520.07	1,427.23	1,380.78	1,343.05	37.73	36.598		
4,800.00	4,740.59	4,462.12	4,165.69	19.65	30.50	-71.65	-536.10	1,465.20	1,416.26	1,377.54	38.72	36.580		
4,900.00	4,838.63	4,555.60	4,249.59	20.13	31.36	-71.72	-552.13	1,503.17	1,451.74	1,412.04	39.71	36.562		
5,000.00	4,936.66	4,649.08	4,333.49	20.62	32.22	-71.78	-568.16	1,541.15	1,487.23	1,446.53	40.70	36.543		

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-20-3N
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-20-3N	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	5,034.69	4,742.56	4,417.40	21.10	33.08	-71.84	-584.20	1,579.12	1,522.71	1,481.02	41.69	36.525		
5,200.00	5,132.73	4,836.04	4,501.30	21.59	33.93	-71.90	-600.23	1,617.09	1,558.20	1,515.52	42.68	36.506		
5,300.00	5,230.76	4,929.52	4,585.20	22.07	34.80	-71.95	-616.26	1,655.07	1,593.69	1,550.01	43.68	36.487		
5,400.00	5,328.79	5,023.00	4,669.10	22.56	35.66	-72.00	-632.29	1,693.04	1,629.18	1,584.51	44.67	36.469		
5,500.00	5,426.83	5,116.48	4,753.00	23.04	36.52	-72.06	-648.32	1,731.02	1,664.67	1,619.00	45.67	36.450		
5,600.00	5,524.86	5,209.96	4,836.91	23.53	37.38	-72.10	-664.35	1,768.99	1,700.16	1,653.50	46.67	36.432		
5,700.00	5,622.89	5,303.44	4,920.81	24.02	38.24	-72.15	-680.38	1,806.96	1,735.66	1,687.99	47.67	36.413		
5,800.00	5,720.93	5,396.92	5,004.71	24.50	39.10	-72.19	-696.41	1,844.94	1,771.15	1,722.49	48.66	36.395		
5,900.00	5,818.96	5,490.40	5,088.61	24.99	39.96	-72.24	-712.45	1,882.91	1,806.64	1,756.98	49.66	36.377		
6,000.00	5,916.99	5,583.88	5,172.52	25.48	40.82	-72.28	-728.48	1,920.88	1,842.14	1,791.48	50.66	36.359		
6,100.00	6,015.03	5,677.36	5,256.42	25.97	41.69	-72.32	-744.51	1,958.86	1,877.64	1,825.97	51.67	36.342		
6,200.00	6,113.06	5,770.84	5,340.32	26.45	42.55	-72.36	-760.54	1,996.83	1,913.13	1,860.47	52.67	36.324		
6,300.00	6,211.09	5,864.32	5,424.22	26.94	43.41	-72.39	-776.57	2,034.80	1,948.63	1,894.96	53.67	36.307		
6,400.00	6,309.13	5,957.80	5,508.12	27.43	44.28	-72.43	-792.60	2,072.78	1,984.13	1,929.46	54.67	36.290		
6,500.00	6,407.16	6,051.28	5,592.03	27.92	45.14	-72.46	-808.63	2,110.75	2,019.63	1,963.95	55.68	36.274		
6,600.00	6,505.19	6,144.76	5,675.93	28.41	46.00	-72.50	-824.67	2,148.72	2,055.13	1,998.45	56.68	36.257		
6,664.73	6,568.65	6,205.27	5,730.24	28.73	46.56	-72.52	-835.04	2,173.31	2,078.11	2,020.78	57.33	36.247		
6,700.00	6,603.27	6,238.22	5,759.81	28.90	46.87	-72.78	-840.69	2,186.69	2,090.69	2,033.01	57.68	36.244		
6,800.00	6,701.84	6,331.37	5,843.42	29.36	47.73	-73.47	-856.67	2,224.53	2,127.01	2,068.38	58.63	36.277		
6,900.00	6,800.94	6,563.43	6,054.67	29.78	49.73	-73.90	-893.96	2,312.87	2,162.26	2,101.41	60.85	35.536		
7,000.00	6,900.45	6,879.85	6,353.76	30.17	51.92	-74.13	-933.94	2,407.58	2,189.60	2,126.34	63.25	34.616		
7,100.00	7,000.24	7,211.86	6,677.74	30.53	53.55	-74.26	-961.84	2,473.66	2,207.77	2,142.80	64.97	33.982		
7,200.00	7,100.19	7,553.57	7,017.53	30.85	54.60	-74.32	-975.14	2,505.17	2,216.18	2,150.31	65.87	33.644		
7,233.81	7,134.00	7,670.07	7,134.00	30.95	54.82	89.44	-976.07	2,507.35	2,216.76	2,150.78	65.98	33.598		
7,300.00	7,200.19	7,736.26	7,200.19	31.12	54.93	89.44	-976.07	2,507.35	2,216.76	2,150.45	66.31	33.433		
7,333.81	7,234.00	7,770.07	7,234.00	31.21	54.99	89.44	-976.07	2,507.35	2,216.76	2,150.28	66.47	33.348		
7,333.82	7,234.00	7,770.08	7,234.00	31.21	54.99	89.44	-976.07	2,507.35	2,216.76	2,150.28	66.47	33.348		
7,350.00	7,250.18	7,786.50	7,250.43	31.26	55.01	-90.22	-976.30	2,507.35	2,216.76	2,150.19	66.56	33.304		
7,400.00	7,300.04	7,837.25	7,301.02	31.44	55.11	-90.22	-980.00	2,507.37	2,216.76	2,149.87	66.89	33.142		
7,450.00	7,349.39	7,887.99	7,351.08	31.66	55.23	-90.22	-988.15	2,507.42	2,216.76	2,149.47	67.28	32.946		
7,500.00	7,397.87	7,938.71	7,400.21	31.92	55.37	-90.21	-1,000.70	2,507.50	2,216.76	2,149.00	67.75	32.718		
7,550.00	7,445.09	7,989.41	7,448.02	32.22	55.53	-90.21	-1,017.54	2,507.60	2,216.76	2,148.47	68.29	32.461		
7,600.00	7,490.72	8,040.09	7,494.14	32.55	55.71	-90.20	-1,038.52	2,507.72	2,216.76	2,147.86	68.90	32.176		
7,650.00	7,534.38	8,090.74	7,538.19	32.92	55.91	-90.19	-1,063.47	2,507.87	2,216.76	2,147.19	69.57	31.865		
7,700.00	7,575.77	8,141.36	7,579.84	33.32	56.12	-90.18	-1,092.20	2,508.05	2,216.76	2,146.46	70.30	31.532		
7,750.00	7,614.55	8,191.93	7,618.77	33.75	56.35	-90.17	-1,124.46	2,508.24	2,216.76	2,145.66	71.10	31.178		
7,800.00	7,650.43	8,242.46	7,654.66	34.22	56.60	-90.15	-1,160.00	2,508.46	2,216.76	2,144.80	71.96	30.806		
7,850.00	7,683.15	8,292.94	7,687.27	34.71	56.87	-90.14	-1,198.52	2,508.69	2,216.76	2,143.89	72.87	30.420		
7,900.00	7,712.45	8,343.37	7,716.32	35.23	57.15	-90.12	-1,239.71	2,508.94	2,216.76	2,142.92	73.84	30.021		
7,950.00	7,738.11	8,393.74	7,741.62	35.78	57.45	-90.10	-1,283.25	2,509.20	2,216.77	2,141.91	74.85	29.614		
8,000.00	7,759.93	8,444.05	7,762.97	36.35	57.76	-90.09	-1,328.79	2,509.47	2,216.77	2,140.86	75.91	29.201		
8,050.00	7,777.75	8,494.31	7,780.23	36.93	58.08	-90.07	-1,375.97	2,509.76	2,216.77	2,139.76	77.01	28.786		
8,100.00	7,791.43	8,544.50	7,793.28	37.53	58.42	-90.05	-1,424.42	2,510.05	2,216.77	2,138.64	78.13	28.372		
8,150.00	7,800.87	8,594.63	7,802.03	38.14	58.77	-90.03	-1,473.76	2,510.34	2,216.78	2,137.50	79.28	27.961		
8,200.00	7,806.00	8,644.70	7,806.44	38.76	59.12	-90.01	-1,523.62	2,510.64	2,216.78	2,136.34	80.44	27.558		
8,233.89	7,807.00	8,678.60	7,807.00	39.18	59.37	-90.00	-1,557.51	2,510.85	2,216.78	2,135.55	81.23	27.290		
8,300.00	7,807.00	8,744.70	7,807.00	40.00	59.86	-90.00	-1,623.62	2,511.25	2,216.79	2,133.99	82.80	26.774		
8,400.00	7,807.00	8,844.70	7,807.00	41.29	60.63	-90.00	-1,723.61	2,511.85	2,216.80	2,131.57	85.23	26.010		
8,500.00	7,806.99	8,944.70	7,807.00	42.60	61.44	-90.00	-1,823.61	2,512.45	2,216.80	2,129.07	87.74	25.267		
8,600.00	7,806.99	9,044.70	7,807.00	43.95	62.29	-90.00	-1,923.61	2,513.05	2,216.81	2,126.50	90.31	24.546		
8,700.00	7,806.99	9,144.70	7,806.99	45.33	63.18	-90.00	-2,023.61	2,513.65	2,216.82	2,123.87	92.95	23.849		
8,800.00	7,806.99	9,244.70	7,806.99	46.74	64.10	-90.00	-2,123.61	2,514.26	2,216.83	2,121.18	95.65	23.176		

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-20-3N
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-20-3N	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	7,806.98	9,344.70	7,806.99	48.17	65.05	-90.00	-2,223.61	2,514.86	2,216.83	2,118.43	98.40	22.528		
9,000.00	7,806.98	9,444.70	7,806.99	49.62	66.04	-90.00	-2,323.60	2,515.46	2,216.84	2,115.64	101.20	21.905		
9,100.00	7,806.98	9,544.70	7,806.99	51.09	67.06	-90.00	-2,423.60	2,516.06	2,216.85	2,112.80	104.05	21.306		
9,200.00	7,806.98	9,644.70	7,806.99	52.59	68.11	-90.00	-2,523.60	2,516.66	2,216.86	2,109.92	106.94	20.730		
9,300.00	7,806.97	9,744.70	7,806.99	54.09	69.19	-90.00	-2,623.60	2,517.27	2,216.86	2,107.00	109.86	20.178		
9,400.00	7,806.97	9,844.70	7,806.99	55.62	70.29	-90.00	-2,723.60	2,517.87	2,216.87	2,104.05	112.83	19.649		
9,500.00	7,806.97	9,944.70	7,806.98	57.16	71.43	-90.00	-2,823.59	2,518.47	2,216.88	2,101.06	115.82	19.141		
9,600.00	7,806.97	10,044.70	7,806.98	58.71	72.59	-90.00	-2,923.59	2,519.07	2,216.89	2,098.04	118.85	18.654		
9,700.00	7,806.96	10,144.70	7,806.98	60.27	73.78	-90.00	-3,023.59	2,519.67	2,216.89	2,095.00	121.90	18.187		
9,800.00	7,806.96	10,244.70	7,806.98	61.84	74.99	-90.00	-3,123.59	2,520.27	2,216.90	2,091.93	124.98	17.739		
9,900.00	7,806.96	10,344.70	7,806.98	63.43	76.23	-90.00	-3,223.59	2,520.88	2,216.91	2,088.83	128.08	17.309		
10,000.00	7,806.96	10,444.70	7,806.98	65.02	77.49	-90.00	-3,323.59	2,521.48	2,216.92	2,085.71	131.20	16.897		
10,100.00	7,806.95	10,544.70	7,806.98	66.63	78.77	-90.00	-3,423.58	2,522.08	2,216.92	2,082.57	134.35	16.501		
10,200.00	7,806.95	10,644.70	7,806.98	68.24	80.07	-90.00	-3,523.58	2,522.68	2,216.93	2,079.42	137.52	16.121		
10,300.00	7,806.95	10,744.70	7,806.97	69.86	81.38	-90.00	-3,623.58	2,523.28	2,216.94	2,076.24	140.70	15.757		
10,400.00	7,806.95	10,844.70	7,806.97	71.49	82.72	-90.00	-3,723.58	2,523.89	2,216.95	2,073.05	143.90	15.406		
10,500.00	7,806.94	10,944.70	7,806.97	73.12	84.07	-90.00	-3,823.58	2,524.49	2,216.95	2,069.84	147.12	15.069		
10,600.00	7,806.94	11,044.70	7,806.97	74.76	85.44	-90.00	-3,923.57	2,525.09	2,216.96	2,066.62	150.35	14.746		
10,700.00	7,806.94	11,144.70	7,806.97	76.41	86.83	-90.00	-4,023.57	2,525.69	2,216.97	2,063.38	153.59	14.434		
10,800.00	7,806.94	11,244.70	7,806.97	78.06	88.23	-90.00	-4,123.57	2,526.29	2,216.98	2,060.13	156.85	14.134		
10,900.00	7,806.93	11,344.70	7,806.97	79.72	89.64	-90.00	-4,223.57	2,526.90	2,216.99	2,056.87	160.12	13.846		
11,000.00	7,806.93	11,444.70	7,806.97	81.38	91.07	-90.00	-4,323.57	2,527.50	2,216.99	2,053.59	163.40	13.568		
11,100.00	7,806.93	11,544.70	7,806.96	83.05	92.51	-90.00	-4,423.57	2,528.10	2,217.00	2,050.31	166.69	13.300		
11,200.00	7,806.93	11,644.70	7,806.96	84.72	93.97	-90.00	-4,523.56	2,528.70	2,217.01	2,047.01	170.00	13.041		
11,300.00	7,806.92	11,744.70	7,806.96	86.39	95.43	-90.00	-4,623.56	2,529.30	2,217.02	2,043.71	173.31	12.792		
11,400.00	7,806.92	11,844.70	7,806.96	88.07	96.91	-90.00	-4,723.56	2,529.91	2,217.02	2,040.39	176.63	12.552		
11,500.00	7,806.92	11,944.70	7,806.96	89.75	98.39	-90.00	-4,823.56	2,530.51	2,217.03	2,037.07	179.96	12.320		
11,600.00	7,806.92	12,044.70	7,806.96	91.44	99.89	-90.00	-4,923.56	2,531.11	2,217.04	2,033.74	183.30	12.095		
11,700.00	7,806.91	12,144.70	7,806.96	93.13	101.40	-90.00	-5,023.55	2,531.71	2,217.05	2,030.40	186.64	11.878		
11,800.00	7,806.91	12,244.70	7,806.96	94.82	102.91	-90.00	-5,123.55	2,532.31	2,217.05	2,027.06	190.00	11.669		
11,900.00	7,806.91	12,344.70	7,806.95	96.52	104.44	-90.00	-5,223.55	2,532.91	2,217.06	2,023.70	193.36	11.466		
12,000.00	7,806.91	12,444.70	7,806.95	98.21	105.97	-90.00	-5,323.55	2,533.52	2,217.07	2,020.35	196.72	11.270		
12,100.00	7,806.90	12,544.70	7,806.95	99.91	107.51	-90.00	-5,423.55	2,534.12	2,217.08	2,016.98	200.10	11.080		
12,200.00	7,806.90	12,644.70	7,806.95	101.62	109.06	-90.00	-5,523.55	2,534.72	2,217.08	2,013.61	203.47	10.896		
12,300.00	7,806.90	12,744.70	7,806.95	103.32	110.61	-90.00	-5,623.54	2,535.32	2,217.09	2,010.23	206.86	10.718		
12,400.00	7,806.90	12,844.70	7,806.95	105.03	112.17	-90.00	-5,723.54	2,535.92	2,217.10	2,006.85	210.25	10.545		
12,500.00	7,806.89	12,944.70	7,806.95	106.74	113.74	-90.00	-5,823.54	2,536.53	2,217.11	2,003.46	213.64	10.378		
12,600.00	7,806.89	13,044.70	7,806.95	108.45	115.32	-90.00	-5,923.54	2,537.13	2,217.11	2,000.07	217.04	10.215		
12,700.00	7,806.89	13,144.70	7,806.94	110.17	116.90	-90.00	-6,023.54	2,537.73	2,217.12	1,996.68	220.45	10.057		
12,800.00	7,806.89	13,244.70	7,806.94	111.88	118.48	-90.00	-6,123.53	2,538.33	2,217.13	1,993.28	223.85	9.904		
12,900.00	7,806.88	13,344.70	7,806.94	113.60	120.08	-90.00	-6,223.53	2,538.93	2,217.14	1,989.87	227.27	9.756		
13,000.00	7,806.88	13,444.70	7,806.94	115.32	121.67	-90.00	-6,323.53	2,539.54	2,217.14	1,986.46	230.68	9.611		
13,100.00	7,806.88	13,544.70	7,806.94	117.04	123.28	-90.00	-6,423.53	2,540.14	2,217.15	1,983.05	234.10	9.471		
13,200.00	7,806.88	13,644.70	7,806.94	118.76	124.89	-90.00	-6,523.53	2,540.74	2,217.16	1,979.63	237.53	9.334		
13,300.00	7,806.87	13,744.70	7,806.94	120.48	126.50	-90.00	-6,623.53	2,541.34	2,217.17	1,976.21	240.96	9.202		
13,400.00	7,806.87	13,844.70	7,806.94	122.21	128.11	-90.00	-6,723.52	2,541.94	2,217.17	1,972.79	244.39	9.072		
13,500.00	7,806.87	13,944.70	7,806.93	123.94	129.74	-90.00	-6,823.52	2,542.55	2,217.18	1,969.36	247.82	8.947		
13,600.00	7,806.87	14,044.70	7,806.93	125.66	131.36	-90.00	-6,923.52	2,543.15	2,217.19	1,965.93	251.26	8.824		
13,700.00	7,806.86	14,144.70	7,806.93	127.39	132.99	-90.00	-7,023.52	2,543.75	2,217.20	1,962.50	254.70	8.705		
13,800.00	7,806.86	14,244.70	7,806.93	129.12	134.62	-90.00	-7,123.52	2,544.35	2,217.20	1,959.06	258.14	8.589		
13,900.00	7,806.86	14,344.70	7,806.93	130.85	136.26	-90.00	-7,223.51	2,544.95	2,217.21	1,955.62	261.59	8.476		
14,000.00	7,806.86	14,444.70	7,806.93	132.59	137.90	-90.00	-7,323.51	2,545.55	2,217.22	1,952.18	265.04	8.366		

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-20-3N
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-20-3N	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	7,806.85	14,544.70	7,806.93	134.32	139.54	-90.00	-7,423.51	2,546.16	2,217.23	1,948.74	268.49	8.258		
14,200.00	7,806.85	14,644.70	7,806.93	136.06	141.19	-90.00	-7,523.51	2,546.76	2,217.24	1,945.29	271.94	8.153		
14,300.00	7,806.85	14,744.70	7,806.92	137.79	142.84	-90.00	-7,623.51	2,547.36	2,217.24	1,941.85	275.40	8.051		
14,400.00	7,806.85	14,844.70	7,806.92	139.53	144.50	-90.00	-7,723.51	2,547.96	2,217.25	1,938.39	278.86	7.951		
14,500.00	7,806.84	14,944.70	7,806.92	141.27	146.15	-90.00	-7,823.50	2,548.56	2,217.26	1,934.94	282.32	7.854		
14,600.00	7,806.84	15,044.70	7,806.92	143.00	147.81	-90.00	-7,923.50	2,549.17	2,217.27	1,931.49	285.78	7.759		
14,700.00	7,806.84	15,144.70	7,806.92	144.74	149.47	-90.00	-8,023.50	2,549.77	2,217.27	1,928.03	289.24	7.666		
14,800.00	7,806.84	15,244.70	7,806.92	146.48	151.14	-90.00	-8,123.50	2,550.37	2,217.28	1,924.57	292.71	7.575		
14,900.00	7,806.83	15,344.70	7,806.92	148.22	152.81	-90.00	-8,223.50	2,550.97	2,217.29	1,921.11	296.18	7.486		
15,000.00	7,806.83	15,444.70	7,806.92	149.97	154.48	-90.00	-8,323.49	2,551.57	2,217.30	1,917.65	299.65	7.400		
15,100.00	7,806.83	15,544.70	7,806.91	151.71	156.15	-90.00	-8,423.49	2,552.18	2,217.30	1,914.18	303.12	7.315		
15,200.00	7,806.83	15,644.70	7,806.91	153.45	157.82	-90.00	-8,523.49	2,552.78	2,217.31	1,910.72	306.59	7.232		
15,300.00	7,806.82	15,744.70	7,806.91	155.19	159.50	-90.00	-8,623.49	2,553.38	2,217.32	1,907.25	310.07	7.151		
15,400.00	7,806.82	15,844.70	7,806.91	156.94	161.18	-90.00	-8,723.49	2,553.98	2,217.33	1,903.78	313.55	7.072		
15,500.00	7,806.82	15,944.70	7,806.91	158.68	162.86	-90.00	-8,823.49	2,554.58	2,217.33	1,900.31	317.02	6.994		
15,600.00	7,806.82	16,044.70	7,806.91	160.43	164.54	-90.00	-8,923.48	2,555.19	2,217.34	1,896.84	320.50	6.918		
15,700.00	7,806.81	16,144.70	7,806.91	162.18	166.23	-90.00	-9,023.48	2,555.79	2,217.35	1,893.36	323.99	6.844		
15,800.00	7,806.81	16,244.70	7,806.91	163.92	167.91	-90.00	-9,123.48	2,556.39	2,217.36	1,889.89	327.47	6.771		
15,900.00	7,806.81	16,344.70	7,806.90	165.67	169.60	-90.00	-9,223.48	2,556.99	2,217.36	1,886.41	330.95	6.700		
16,000.00	7,806.81	16,444.70	7,806.90	167.42	171.29	-90.00	-9,323.48	2,557.59	2,217.37	1,882.93	334.44	6.630		
16,100.00	7,806.80	16,544.70	7,806.90	169.17	172.98	-90.00	-9,423.47	2,558.19	2,217.38	1,879.45	337.93	6.562		
16,200.00	7,806.80	16,644.70	7,806.90	170.91	174.68	-90.00	-9,523.47	2,558.80	2,217.39	1,875.97	341.41	6.495		
16,300.00	7,806.80	16,744.70	7,806.90	172.66	176.37	-90.00	-9,623.47	2,559.40	2,217.39	1,872.49	344.90	6.429		
16,400.00	7,806.80	16,844.70	7,806.90	174.41	178.07	-90.00	-9,723.47	2,560.00	2,217.40	1,869.01	348.39	6.365		
16,500.00	7,806.79	16,944.70	7,806.90	176.16	179.77	-90.00	-9,823.47	2,560.60	2,217.41	1,865.53	351.88	6.302		
16,600.00	7,806.79	17,044.70	7,806.89	177.92	181.47	-90.00	-9,923.47	2,561.20	2,217.42	1,862.04	355.38	6.240		
16,700.00	7,806.79	17,144.70	7,806.89	179.67	183.17	-90.00	-10,023.46	2,561.81	2,217.42	1,858.55	358.87	6.179		
16,800.00	7,806.79	17,244.70	7,806.89	181.42	184.87	-90.00	-10,123.46	2,562.41	2,217.43	1,855.07	362.36	6.119		
16,900.00	7,806.78	17,344.70	7,806.89	183.17	186.58	-90.00	-10,223.46	2,563.01	2,217.44	1,851.58	365.86	6.061		
17,000.00	7,806.78	17,444.70	7,806.89	184.92	188.28	-90.00	-10,323.46	2,563.61	2,217.45	1,848.09	369.36	6.004		
17,100.00	7,806.78	17,544.70	7,806.89	186.68	189.99	-90.00	-10,423.46	2,564.21	2,217.45	1,844.60	372.85	5.947		
17,200.00	7,806.78	17,644.70	7,806.89	188.43	191.70	-90.00	-10,523.46	2,564.82	2,217.46	1,841.11	376.35	5.892		
17,300.00	7,806.77	17,744.70	7,806.89	190.18	193.41	-90.00	-10,623.45	2,565.42	2,217.47	1,837.62	379.85	5.838		
17,400.00	7,806.77	17,844.70	7,806.88	191.94	195.12	-90.00	-10,723.45	2,566.02	2,217.48	1,834.13	383.35	5.784		
17,500.00	7,806.77	17,944.70	7,806.88	193.69	196.83	-90.00	-10,823.45	2,566.62	2,217.49	1,830.63	386.85	5.732		
17,600.00	7,806.77	18,044.70	7,806.88	195.45	198.54	-90.00	-10,923.45	2,567.22	2,217.49	1,827.14	390.35	5.681		
17,700.00	7,806.76	18,144.70	7,806.88	197.20	200.26	-90.00	-11,023.45	2,567.82	2,217.50	1,823.64	393.86	5.630		
17,800.00	7,806.76	18,244.70	7,806.88	198.96	201.97	-90.00	-11,123.44	2,568.43	2,217.51	1,820.15	397.36	5.581		
17,806.31	7,806.76	18,251.02	7,806.88	199.07	202.08	-90.00	-11,129.76	2,568.46	2,217.51	1,819.93	397.58	5.577		
17,877.44	7,807.00	18,310.06	7,806.91	200.32	203.09	-90.00	-11,188.79	2,568.87	2,217.53	1,817.44	400.08	5.543 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.20	215.94	215.94					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.20	215.94	215.94	215.67	0.27	803.185		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.20	215.94	215.94	214.95	0.99	219.051		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.20	215.94	215.94	214.24	1.70	126.819		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.20	215.94	215.94	213.52	2.42	89.243		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.20	215.94	215.94	212.80	3.14	68.845		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-1.20	215.94	215.94	212.09	3.85	56.036	CC, ES	
700.00	700.00	693.34	693.33	2.29	2.25	90.45	-1.72	217.36	217.47	212.94	4.54	47.947		
800.00	800.00	786.49	786.35	2.64	2.57	90.85	-3.28	221.64	222.08	216.87	5.21	42.633		
900.00	900.00	879.24	878.79	3.00	2.90	91.47	-5.86	228.71	229.77	223.89	5.88	39.073		
1,000.00	1,000.00	971.40	970.36	3.36	3.24	92.27	-9.44	238.52	240.54	233.99	6.55	36.734		
1,100.00	1,100.00	1,062.81	1,060.79	3.72	3.59	93.19	-13.99	250.98	254.41	247.20	7.21	35.283		
1,200.00	1,200.00	1,153.27	1,149.83	4.08	3.96	94.18	-19.46	265.97	271.36	263.49	7.87	34.500		
1,300.00	1,300.00	1,242.62	1,237.25	4.44	4.35	95.20	-25.80	283.36	291.37	282.86	8.51	34.225		
1,400.00	1,400.00	1,330.73	1,322.83	4.79	4.76	96.21	-32.97	303.01	314.42	305.27	9.14	34.385		
1,500.00	1,499.98	1,417.68	1,406.63	5.14	5.19	-66.35	-40.93	324.82	339.77	330.02	9.75	34.843		
1,600.00	1,599.84	1,503.64	1,488.73	5.46	5.65	-65.59	-49.65	348.71	366.65	356.31	10.34	35.469		
1,700.00	1,699.45	1,588.53	1,569.03	5.80	6.15	-65.19	-59.09	374.57	394.95	384.02	10.93	36.151		
1,800.00	1,798.70	1,672.29	1,647.42	6.14	6.68	-65.05	-69.19	402.27	424.61	413.09	11.52	36.860		
1,900.00	1,897.47	1,754.85	1,723.83	6.49	7.24	-65.13	-79.92	431.66	455.60	443.48	12.13	37.574		
1,969.08	1,965.35	1,811.17	1,775.41	6.75	7.65	-65.27	-87.66	452.89	477.80	465.24	12.55	38.063		
2,000.00	1,995.66	1,836.17	1,798.17	6.86	7.84	-65.54	-91.21	462.62	488.00	475.25	12.75	38.280		
2,100.00	2,093.69	1,916.07	1,870.26	7.25	8.46	-66.27	-103.01	494.96	522.75	509.36	13.39	39.050		
2,200.00	2,191.72	1,995.21	1,939.94	7.65	9.12	-66.85	-115.24	528.46	560.05	546.02	14.03	39.909		
2,300.00	2,289.76	2,086.45	2,021.34	8.07	9.92	-67.41	-130.01	568.94	598.63	583.77	14.87	40.269		
2,400.00	2,387.79	2,178.55	2,102.75	8.49	10.74	-67.91	-144.78	609.43	637.26	621.54	15.72	40.536		
2,500.00	2,485.82	2,270.66	2,184.15	8.91	11.58	-68.35	-159.55	649.91	675.92	659.33	16.59	40.737		
2,600.00	2,583.86	2,362.77	2,265.55	9.35	12.43	-68.74	-174.32	690.39	714.61	697.14	17.48	40.887		
2,700.00	2,681.89	2,454.87	2,346.96	9.79	13.29	-69.09	-189.09	730.87	753.33	734.96	18.38	40.996		
2,800.00	2,779.92	2,546.98	2,428.36	10.24	14.15	-69.41	-203.86	771.35	792.07	772.79	19.28	41.074		
2,900.00	2,877.96	2,639.09	2,509.77	10.69	15.02	-69.70	-218.64	811.84	830.83	810.63	20.20	41.126		
3,000.00	2,975.99	2,731.19	2,591.17	11.14	15.90	-69.96	-233.41	852.32	869.60	848.48	21.13	41.159		
3,100.00	3,074.02	2,823.30	2,672.57	11.60	16.78	-70.20	-248.18	892.80	908.39	886.33	22.06	41.176		
3,200.00	3,172.06	2,915.41	2,753.98	12.06	17.66	-70.42	-262.95	933.28	947.19	924.19	23.00	41.180		
3,300.00	3,270.09	3,007.51	2,835.38	12.52	18.54	-70.62	-277.72	973.77	986.01	962.06	23.95	41.175		
3,400.00	3,368.12	3,100.38	2,916.79	12.98	19.44	-70.81	-292.49	1,014.25	1,024.83	999.93	24.90	41.155		
3,500.00	3,466.16	3,208.27	2,998.19	13.45	20.48	-70.99	-307.26	1,054.73	1,063.66	1,037.71	25.95	40.996		
3,600.00	3,564.19	3,283.83	3,079.59	13.92	21.21	-71.15	-322.03	1,095.21	1,102.50	1,075.68	26.81	41.118		
3,700.00	3,662.23	3,375.94	3,161.00	14.39	22.11	-71.30	-336.81	1,135.70	1,141.34	1,113.57	27.78	41.090		
3,800.00	3,760.26	3,468.05	3,242.40	14.86	23.00	-71.44	-351.58	1,176.18	1,180.20	1,151.45	28.74	41.059		
3,900.00	3,858.29	3,560.15	3,323.81	15.34	23.90	-71.57	-366.35	1,216.66	1,219.05	1,189.34	29.71	41.026		
4,000.00	3,956.33	3,652.26	3,405.21	15.81	24.80	-71.69	-381.12	1,257.14	1,257.92	1,227.23	30.69	40.991		
4,100.00	4,054.36	3,744.37	3,486.61	16.29	25.70	-71.81	-395.89	1,297.63	1,296.78	1,265.12	31.66	40.956		
4,200.00	4,152.39	3,836.47	3,568.02	16.77	26.60	-71.92	-410.66	1,338.11	1,335.65	1,303.01	32.64	40.919		
4,300.00	4,250.43	3,928.58	3,649.42	17.25	27.50	-72.02	-425.43	1,378.59	1,374.53	1,340.91	33.62	40.882		
4,400.00	4,348.46	4,020.69	3,730.83	17.73	28.40	-72.12	-440.21	1,419.07	1,413.41	1,378.80	34.60	40.845		
4,500.00	4,446.49	4,112.79	3,812.23	18.21	29.30	-72.21	-454.98	1,459.56	1,452.29	1,416.70	35.59	40.808		
4,600.00	4,544.53	4,204.90	3,893.63	18.69	30.20	-72.30	-469.75	1,500.04	1,491.18	1,454.60	36.57	40.771		
4,700.00	4,642.56	4,297.01	3,975.04	19.17	31.11	-72.38	-484.52	1,540.52	1,530.06	1,492.50	37.56	40.734		
4,800.00	4,740.59	4,389.11	4,056.44	19.65	32.01	-72.46	-499.29	1,581.00	1,568.95	1,530.40	38.55	40.698		
4,900.00	4,838.63	4,481.22	4,137.85	20.13	32.92	-72.54	-514.06	1,621.49	1,607.85	1,568.31	39.54	40.662		
5,000.00	4,936.66	4,573.33	4,219.25	20.62	33.82	-72.61	-528.83	1,661.97	1,646.74	1,606.21	40.53	40.626		

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-20-3N
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-20-3N	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	5,034.69	4,665.43	4,300.66	21.10	34.73	-72.68	-543.60	1,702.45	1,685.64	1,644.11	41.53	40.591		
5,200.00	5,132.73	4,757.54	4,382.06	21.59	35.63	-72.74	-558.38	1,742.93	1,724.54	1,682.02	42.52	40.557		
5,300.00	5,230.76	4,849.65	4,463.46	22.07	36.54	-72.81	-573.15	1,783.41	1,763.44	1,719.92	43.52	40.523		
5,400.00	5,328.79	4,941.75	4,544.87	22.56	37.45	-72.87	-587.92	1,823.90	1,802.34	1,757.83	44.51	40.489		
5,500.00	5,426.83	5,033.86	4,626.27	23.04	38.35	-72.92	-602.69	1,864.38	1,841.25	1,795.74	45.51	40.457		
5,600.00	5,524.86	5,125.97	4,707.68	23.53	39.26	-72.98	-617.46	1,904.86	1,880.15	1,833.64	46.51	40.424		
5,700.00	5,622.89	5,218.07	4,789.08	24.02	40.17	-73.03	-632.23	1,945.34	1,919.06	1,871.55	47.51	40.393		
5,800.00	5,720.93	5,310.18	4,870.48	24.50	41.08	-73.08	-647.00	1,985.83	1,957.97	1,909.46	48.51	40.362		
5,900.00	5,818.96	5,402.29	4,951.89	24.99	41.99	-73.13	-661.78	2,026.31	1,996.88	1,947.37	49.51	40.332		
6,000.00	5,916.99	5,494.39	5,033.29	25.48	42.89	-73.18	-676.55	2,066.79	2,035.79	1,985.28	50.51	40.302		
6,100.00	6,015.03	5,586.50	5,114.70	25.97	43.80	-73.22	-691.32	2,107.27	2,074.70	2,023.19	51.52	40.273		
6,200.00	6,113.06	5,678.61	5,196.10	26.45	44.71	-73.26	-706.09	2,147.76	2,113.62	2,061.10	52.52	40.244		
6,300.00	6,211.09	5,770.71	5,277.50	26.94	45.62	-73.31	-720.86	2,188.24	2,152.53	2,099.01	53.52	40.217		
6,400.00	6,309.13	5,862.82	5,358.91	27.43	46.53	-73.35	-735.63	2,228.72	2,191.45	2,136.92	54.53	40.189		
6,500.00	6,407.16	5,954.93	5,440.31	27.92	47.44	-73.38	-750.40	2,269.20	2,230.36	2,174.83	55.53	40.162		
6,600.00	6,505.19	6,047.03	5,521.72	28.41	48.35	-73.42	-765.17	2,309.69	2,269.28	2,212.74	56.54	40.136		
6,664.73	6,568.65	6,106.66	5,574.41	28.73	48.94	-73.45	-774.74	2,335.89	2,294.47	2,237.28	57.19	40.119		
6,700.00	6,603.27	6,139.12	5,603.10	28.90	49.26	-73.74	-779.94	2,350.16	2,308.25	2,250.71	57.54	40.114		
6,800.00	6,701.84	6,230.89	5,684.21	29.36	50.16	-74.53	-794.66	2,390.49	2,347.93	2,289.44	58.49	40.140		
6,900.00	6,800.94	6,322.17	5,764.89	29.78	51.07	-75.26	-809.30	2,430.61	2,388.47	2,329.09	59.38	40.224		
7,000.00	6,900.45	6,412.85	5,845.03	30.17	51.96	-75.93	-823.84	2,470.47	2,429.84	2,369.64	60.20	40.364		
7,100.00	7,000.24	6,502.82	5,924.54	30.53	52.85	-76.55	-838.27	2,510.01	2,472.02	2,411.07	60.95	40.559		
7,200.00	7,100.19	6,591.97	6,003.33	30.85	53.73	-77.11	-852.57	2,549.20	2,514.99	2,453.36	61.63	40.805		
7,233.81	7,134.00	6,621.91	6,029.79	30.95	54.03	86.46	-857.37	2,562.35	2,529.71	2,467.86	61.85	40.903		
7,300.00	7,200.19	7,300.00	6,156.40	31.12	60.31	87.09	-879.31	2,622.49	2,557.49	2,491.45	66.05	38.722		
7,333.81	7,234.00	7,333.81	6,337.95	31.21	59.96	87.83	-906.55	2,697.13	2,569.46	2,502.86	66.60	38.579		
7,350.00	7,250.18	7,120.09	6,486.22	31.26	58.19	-90.85	-925.27	2,748.44	2,574.77	2,508.93	65.84	39.106		
7,400.00	7,300.04	7,400.00	6,718.80	31.44	59.83	-89.35	-948.10	2,811.00	2,586.99	2,519.58	67.41	38.378		
7,450.00	7,349.39	7,450.00	7,016.18	31.66	60.17	-89.10	-967.23	2,863.44	2,594.50	2,526.72	67.78	38.281		
7,500.00	7,397.87	7,500.00	7,378.90	31.92	60.99	-90.52	-975.95	2,887.33	2,596.96	2,529.11	67.84	38.279		
7,550.00	7,445.09	8,094.94	7,445.09	32.22	61.93	-90.96	-975.99	2,887.44	2,597.25	2,527.62	69.63	37.302		
7,600.00	7,490.72	8,140.56	7,490.72	32.55	62.00	-91.32	-975.99	2,887.44	2,597.70	2,527.41	70.29	36.958		
7,650.00	7,534.38	8,191.57	7,541.68	32.92	62.09	-91.77	-977.89	2,887.46	2,598.38	2,527.37	71.01	36.592		
7,700.00	7,575.77	8,245.77	7,595.40	33.32	62.19	-92.22	-984.85	2,887.50	2,599.26	2,527.49	71.77	36.214		
7,750.00	7,614.55	8,302.93	7,651.09	33.75	62.33	-92.67	-997.66	2,887.58	2,600.31	2,527.73	72.58	35.827		
7,800.00	7,650.43	8,363.44	7,708.33	34.22	62.50	-93.12	-1,017.18	2,887.69	2,601.50	2,528.08	73.42	35.433		
7,850.00	7,683.15	8,427.69	7,766.50	34.71	62.70	-93.56	-1,044.39	2,887.86	2,602.81	2,528.52	74.28	35.039		
7,900.00	7,712.45	8,496.05	7,824.63	35.23	62.95	-94.00	-1,080.29	2,888.08	2,604.17	2,529.01	75.16	34.648		
7,950.00	7,738.11	8,568.82	7,881.33	35.78	63.24	-94.42	-1,125.81	2,888.35	2,605.54	2,529.48	76.06	34.259		
8,000.00	7,759.93	8,646.13	7,934.74	36.35	63.59	-94.81	-1,181.62	2,888.69	2,606.84	2,529.89	76.95	33.877		
8,050.00	7,777.75	8,727.90	7,982.52	36.93	63.99	-95.16	-1,247.90	2,889.09	2,608.01	2,530.15	77.86	33.497		
8,100.00	7,791.43	8,813.72	8,021.99	37.53	64.45	-95.44	-1,324.01	2,889.55	2,608.95	2,530.18	78.78	33.119		
8,150.00	7,800.87	8,902.79	8,050.47	38.14	64.97	-95.63	-1,408.31	2,890.07	2,609.62	2,529.91	79.71	32.739		
8,200.00	7,806.00	8,993.93	8,065.73	38.76	65.53	-95.73	-1,498.07	2,890.61	2,609.95	2,529.27	80.68	32.349		
8,233.89	7,807.00	9,051.05	8,068.00	39.18	65.89	-95.74	-1,555.12	2,890.96	2,609.98	2,528.61	81.37	32.074		
8,300.00	7,807.00	9,117.16	8,068.00	40.00	66.32	-95.74	-1,621.22	2,891.36	2,609.99	2,527.09	82.90	31.485		
8,400.00	7,807.00	9,217.16	8,068.00	41.29	67.01	-95.74	-1,721.22	2,891.96	2,610.00	2,524.73	85.27	30.610		
8,500.00	7,806.99	9,317.16	8,067.99	42.60	67.73	-95.74	-1,821.22	2,892.57	2,610.01	2,522.30	87.72	29.755		
8,600.00	7,806.99	9,417.16	8,067.99	43.95	68.48	-95.74	-1,921.22	2,893.17	2,610.02	2,519.79	90.24	28.925		
8,700.00	7,806.99	9,517.16	8,067.99	45.33	69.27	-95.74	-2,021.22	2,893.78	2,610.04	2,517.21	92.82	28.119		
8,800.00	7,806.99	9,617.16	8,067.99	46.74	70.08	-95.74	-2,121.21	2,894.39	2,610.05	2,514.58	95.47	27.340		
8,900.00	7,806.98	9,717.16	8,067.98	48.17	70.94	-95.74	-2,221.21	2,894.99	2,610.06	2,511.89	98.17	26.588		

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-20-3N
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-20-3N	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	7,806.98	9,817.16	8,067.98	49.62	71.82	-95.74	-2,321.21	2,895.60	2,610.07	2,509.15	100.92	25.863		
9,100.00	7,806.98	9,917.16	8,067.98	51.09	72.73	-95.74	-2,421.21	2,896.21	2,610.08	2,506.37	103.72	25.165		
9,200.00	7,806.98	10,017.16	8,067.98	52.59	73.68	-95.74	-2,521.21	2,896.81	2,610.09	2,503.54	106.56	24.494		
9,300.00	7,806.97	10,117.16	8,067.97	54.09	74.65	-95.74	-2,621.20	2,897.42	2,610.11	2,500.67	109.44	23.850		
9,400.00	7,806.97	10,217.16	8,067.97	55.62	75.66	-95.74	-2,721.20	2,898.02	2,610.12	2,497.76	112.36	23.230		
9,500.00	7,806.97	10,317.16	8,067.97	57.16	76.69	-95.74	-2,821.20	2,898.63	2,610.13	2,494.82	115.31	22.636		
9,600.00	7,806.97	10,417.16	8,067.97	58.71	77.75	-95.74	-2,921.20	2,899.24	2,610.14	2,491.85	118.30	22.065		
9,700.00	7,806.96	10,517.16	8,067.97	60.27	78.83	-95.74	-3,021.20	2,899.84	2,610.15	2,488.84	121.31	21.517		
9,800.00	7,806.96	10,617.16	8,067.96	61.84	79.94	-95.74	-3,121.20	2,900.45	2,610.17	2,485.82	124.35	20.991		
9,900.00	7,806.96	10,717.16	8,067.96	63.43	81.08	-95.74	-3,221.19	2,901.06	2,610.18	2,482.76	127.41	20.486		
10,000.00	7,806.96	10,817.16	8,067.96	65.02	82.24	-95.74	-3,321.19	2,901.66	2,610.19	2,479.69	130.50	20.001		
10,100.00	7,806.95	10,917.16	8,067.96	66.63	83.42	-95.74	-3,421.19	2,902.27	2,610.20	2,476.59	133.61	19.535		
10,200.00	7,806.95	11,017.16	8,067.95	68.24	84.63	-95.74	-3,521.19	2,902.87	2,610.21	2,473.47	136.75	19.088		
10,300.00	7,806.95	11,117.16	8,067.95	69.86	85.85	-95.74	-3,621.19	2,903.48	2,610.22	2,470.33	139.90	18.658		
10,400.00	7,806.95	11,217.16	8,067.95	71.49	87.10	-95.74	-3,721.18	2,904.09	2,610.24	2,467.17	143.06	18.245		
10,500.00	7,806.94	11,317.16	8,067.95	73.12	88.36	-95.74	-3,821.18	2,904.69	2,610.25	2,464.00	146.25	17.848		
10,600.00	7,806.94	11,417.16	8,067.94	74.76	89.65	-95.74	-3,921.18	2,905.30	2,610.26	2,460.81	149.45	17.466		
10,700.00	7,806.94	11,517.16	8,067.94	76.41	90.95	-95.74	-4,021.18	2,905.90	2,610.27	2,457.61	152.66	17.098		
10,800.00	7,806.94	11,617.16	8,067.94	78.06	92.27	-95.74	-4,121.18	2,906.51	2,610.28	2,454.39	155.89	16.744		
10,900.00	7,806.93	11,717.16	8,067.94	79.72	93.60	-95.74	-4,221.18	2,907.12	2,610.30	2,451.16	159.13	16.403		
11,000.00	7,806.93	11,817.16	8,067.93	81.38	94.95	-95.74	-4,321.17	2,907.72	2,610.31	2,447.92	162.39	16.075		
11,100.00	7,806.93	11,917.16	8,067.93	83.05	96.32	-95.74	-4,421.17	2,908.33	2,610.32	2,444.67	165.65	15.758		
11,200.00	7,806.93	12,017.16	8,067.93	84.72	97.70	-95.74	-4,521.17	2,908.94	2,610.33	2,441.40	168.93	15.452		
11,300.00	7,806.92	12,117.16	8,067.93	86.39	99.09	-95.74	-4,621.17	2,909.54	2,610.34	2,438.13	172.21	15.158		
11,400.00	7,806.92	12,217.16	8,067.93	88.07	100.50	-95.74	-4,721.17	2,910.15	2,610.35	2,434.85	175.51	14.873		
11,500.00	7,806.92	12,317.16	8,067.92	89.75	101.92	-95.74	-4,821.16	2,910.75	2,610.37	2,431.55	178.81	14.598		
11,600.00	7,806.92	12,417.16	8,067.92	91.44	103.35	-95.74	-4,921.16	2,911.36	2,610.38	2,428.25	182.12	14.333		
11,700.00	7,806.91	12,517.16	8,067.92	93.13	104.79	-95.74	-5,021.16	2,911.97	2,610.39	2,424.95	185.44	14.076		
11,800.00	7,806.91	12,617.16	8,067.92	94.82	106.24	-95.74	-5,121.16	2,912.57	2,610.40	2,421.63	188.77	13.828		
11,900.00	7,806.91	12,717.16	8,067.91	96.52	107.71	-95.74	-5,221.16	2,913.18	2,610.41	2,418.31	192.11	13.588		
12,000.00	7,806.91	12,817.16	8,067.91	98.21	109.18	-95.74	-5,321.16	2,913.78	2,610.43	2,414.97	195.45	13.356		
12,100.00	7,806.90	12,917.16	8,067.91	99.91	110.67	-95.74	-5,421.15	2,914.39	2,610.44	2,411.64	198.80	13.131		
12,200.00	7,806.90	13,017.16	8,067.91	101.62	112.16	-95.74	-5,521.15	2,915.00	2,610.45	2,408.29	202.16	12.913		
12,300.00	7,806.90	13,117.16	8,067.90	103.32	113.66	-95.74	-5,621.15	2,915.60	2,610.46	2,404.94	205.52	12.702		
12,400.00	7,806.90	13,217.16	8,067.90	105.03	115.17	-95.74	-5,721.15	2,916.21	2,610.47	2,401.59	208.88	12.497		
12,500.00	7,806.89	13,317.16	8,067.90	106.74	116.69	-95.74	-5,821.15	2,916.82	2,610.48	2,398.23	212.25	12.299		
12,600.00	7,806.89	13,417.16	8,067.90	108.45	118.22	-95.74	-5,921.14	2,917.42	2,610.50	2,394.86	215.63	12.106		
12,700.00	7,806.89	13,517.16	8,067.89	110.17	119.75	-95.74	-6,021.14	2,918.03	2,610.51	2,391.49	219.01	11.919		
12,800.00	7,806.89	13,617.16	8,067.89	111.88	121.29	-95.74	-6,121.14	2,918.63	2,610.52	2,388.12	222.40	11.738		
12,900.00	7,806.88	13,717.16	8,067.89	113.60	122.84	-95.74	-6,221.14	2,919.24	2,610.53	2,384.74	225.79	11.562		
13,000.00	7,806.88	13,817.16	8,067.89	115.32	124.39	-95.74	-6,321.14	2,919.85	2,610.54	2,381.36	229.19	11.390		
13,100.00	7,806.88	13,917.16	8,067.89	117.04	125.95	-95.74	-6,421.13	2,920.45	2,610.56	2,377.97	232.59	11.224		
13,200.00	7,806.88	14,017.16	8,067.88	118.76	127.52	-95.74	-6,521.13	2,921.06	2,610.57	2,374.58	235.99	11.062		
13,300.00	7,806.87	14,117.16	8,067.88	120.48	129.09	-95.74	-6,621.13	2,921.67	2,610.58	2,371.18	239.40	10.905		
13,400.00	7,806.87	14,217.16	8,067.88	122.21	130.67	-95.74	-6,721.13	2,922.27	2,610.59	2,367.78	242.81	10.752		
13,500.00	7,806.87	14,317.16	8,067.88	123.94	132.25	-95.74	-6,821.13	2,922.88	2,610.60	2,364.38	246.22	10.603		
13,600.00	7,806.87	14,417.16	8,067.87	125.66	133.84	-95.74	-6,921.13	2,923.48	2,610.61	2,360.98	249.64	10.458		
13,700.00	7,806.86	14,517.16	8,067.87	127.39	135.43	-95.74	-7,021.12	2,924.09	2,610.63	2,357.57	253.06	10.316		
13,800.00	7,806.86	14,617.16	8,067.87	129.12	137.03	-95.74	-7,121.12	2,924.70	2,610.64	2,354.16	256.48	10.179		
13,900.00	7,806.86	14,717.16	8,067.87	130.85	138.63	-95.74	-7,221.12	2,925.30	2,610.65	2,350.74	259.91	10.044		
14,000.00	7,806.86	14,817.16	8,067.86	132.59	140.24	-95.74	-7,321.12	2,925.91	2,610.66	2,347.32	263.34	9.914		
14,100.00	7,806.85	14,917.16	8,067.86	134.32	141.85	-95.74	-7,421.12	2,926.51	2,610.67	2,343.90	266.77	9.786		

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-20-3N
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-20-3N	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	7,806.85	15,017.16	8,067.86	136.06	143.47	-95.74	-7,521.11	2,927.12	2,610.69	2,340.48	270.20	9.662		
14,300.00	7,806.85	15,117.16	8,067.86	137.79	145.09	-95.74	-7,621.11	2,927.73	2,610.70	2,337.06	273.64	9.541		
14,400.00	7,806.85	15,217.16	8,067.85	139.53	146.71	-95.74	-7,721.11	2,928.33	2,610.71	2,333.63	277.08	9.422		
14,500.00	7,806.84	15,317.16	8,067.85	141.27	148.34	-95.74	-7,821.11	2,928.94	2,610.72	2,330.20	280.52	9.307		
14,600.00	7,806.84	15,417.16	8,067.85	143.00	149.97	-95.74	-7,921.11	2,929.55	2,610.73	2,326.77	283.97	9.194		
14,700.00	7,806.84	15,517.16	8,067.85	144.74	151.60	-95.74	-8,021.11	2,930.15	2,610.74	2,323.33	287.41	9.084		
14,800.00	7,806.84	15,617.16	8,067.85	146.48	153.24	-95.74	-8,121.10	2,930.76	2,610.76	2,319.90	290.86	8.976		
14,900.00	7,806.83	15,717.16	8,067.84	148.22	154.88	-95.74	-8,221.10	2,931.36	2,610.77	2,316.46	294.31	8.871		
15,000.00	7,806.83	15,817.16	8,067.84	149.97	156.52	-95.74	-8,321.10	2,931.97	2,610.78	2,313.02	297.76	8.768		
15,100.00	7,806.83	15,917.16	8,067.84	151.71	158.17	-95.74	-8,421.10	2,932.58	2,610.79	2,309.58	301.22	8.668		
15,200.00	7,806.83	16,017.16	8,067.84	153.45	159.82	-95.74	-8,521.10	2,933.18	2,610.80	2,306.13	304.67	8.569		
15,300.00	7,806.82	16,117.16	8,067.83	155.19	161.47	-95.74	-8,621.09	2,933.79	2,610.82	2,302.69	308.13	8.473		
15,400.00	7,806.82	16,217.16	8,067.83	156.94	163.13	-95.74	-8,721.09	2,934.40	2,610.83	2,299.24	311.59	8.379		
15,500.00	7,806.82	16,317.16	8,067.83	158.68	164.78	-95.74	-8,821.09	2,935.00	2,610.84	2,295.79	315.05	8.287		
15,600.00	7,806.82	16,417.16	8,067.83	160.43	166.44	-95.74	-8,921.09	2,935.61	2,610.85	2,292.34	318.51	8.197		
15,700.00	7,806.81	16,517.16	8,067.82	162.18	168.11	-95.74	-9,021.09	2,936.21	2,610.86	2,288.89	321.97	8.109		
15,800.00	7,806.81	16,617.16	8,067.82	163.92	169.77	-95.74	-9,121.09	2,936.82	2,610.87	2,285.44	325.44	8.023		
15,900.00	7,806.81	16,717.16	8,067.82	165.67	171.44	-95.74	-9,221.08	2,937.43	2,610.89	2,281.98	328.90	7.938		
16,000.00	7,806.81	16,817.16	8,067.82	167.42	173.11	-95.74	-9,321.08	2,938.03	2,610.90	2,278.53	332.37	7.855		
16,100.00	7,806.80	16,917.16	8,067.81	169.17	174.78	-95.74	-9,421.08	2,938.64	2,610.91	2,275.07	335.84	7.774		
16,200.00	7,806.80	17,017.16	8,067.81	170.91	176.45	-95.74	-9,521.08	2,939.24	2,610.92	2,271.61	339.31	7.695		
16,300.00	7,806.80	17,117.16	8,067.81	172.66	178.13	-95.74	-9,621.08	2,939.85	2,610.93	2,268.15	342.78	7.617		
16,400.00	7,806.80	17,217.16	8,067.81	174.41	179.81	-95.74	-9,721.07	2,940.46	2,610.95	2,264.69	346.26	7.540		
16,500.00	7,806.79	17,317.16	8,067.81	176.16	181.49	-95.74	-9,821.07	2,941.06	2,610.96	2,261.23	349.73	7.466		
16,600.00	7,806.79	17,417.16	8,067.80	177.92	183.17	-95.74	-9,921.07	2,941.67	2,610.97	2,257.76	353.21	7.392		
16,700.00	7,806.79	17,517.16	8,067.80	179.67	184.85	-95.74	-10,021.07	2,942.28	2,610.98	2,254.30	356.68	7.320		
16,800.00	7,806.79	17,617.16	8,067.80	181.42	186.54	-95.74	-10,121.07	2,942.88	2,610.99	2,250.83	360.16	7.250		
16,900.00	7,806.78	17,717.16	8,067.80	183.17	188.23	-95.74	-10,221.07	2,943.49	2,611.00	2,247.37	363.64	7.180		
17,000.00	7,806.78	17,817.16	8,067.79	184.92	189.91	-95.74	-10,321.06	2,944.09	2,611.02	2,243.90	367.12	7.112		
17,100.00	7,806.78	17,917.16	8,067.79	186.68	191.60	-95.74	-10,421.06	2,944.70	2,611.03	2,240.43	370.60	7.045		
17,200.00	7,806.78	18,017.16	8,067.79	188.43	193.30	-95.74	-10,521.06	2,945.31	2,611.04	2,236.96	374.08	6.980		
17,300.00	7,806.77	18,117.16	8,067.79	190.18	194.99	-95.74	-10,621.06	2,945.91	2,611.05	2,233.49	377.56	6.916		
17,400.00	7,806.77	18,217.16	8,067.78	191.94	196.68	-95.74	-10,721.06	2,946.52	2,611.06	2,230.02	381.04	6.852		
17,500.00	7,806.77	18,317.16	8,067.78	193.69	198.38	-95.74	-10,821.05	2,947.12	2,611.08	2,226.55	384.53	6.790		
17,600.00	7,806.77	18,417.16	8,067.78	195.45	200.08	-95.74	-10,921.05	2,947.73	2,611.09	2,223.07	388.01	6.729		
17,700.00	7,806.76	18,517.16	8,067.78	197.20	201.78	-95.74	-11,021.05	2,948.34	2,611.10	2,219.60	391.50	6.669		
17,800.00	7,806.76	18,617.16	8,067.77	198.96	203.48	-95.74	-11,121.05	2,948.94	2,611.11	2,216.12	394.99	6.611		
17,876.22	7,806.76	18,693.38	8,067.77	200.29	204.77	-95.74	-11,197.27	2,949.41	2,611.12	2,213.48	397.64	6.566		
17,877.44	7,807.00	18,694.60	8,067.77	200.32	204.79	-95.73	-11,198.49	2,949.41	2,611.02	2,213.33	397.69	6.565 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.30	233.93	233.93					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.30	233.93	233.93	233.66	0.27	870.109		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.30	233.93	233.93	232.95	0.99	237.303		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.30	233.93	233.93	232.23	1.70	137.386		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.30	233.93	233.93	231.51	2.42	96.679		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.30	233.93	233.93	230.80	3.14	74.581	CC, ES	
600.00	600.00	592.73	592.72	1.93	1.89	90.43	-1.76	235.36	235.48	231.66	3.82	61.678		
700.00	700.00	685.27	685.14	2.29	2.21	90.74	-3.11	239.64	240.12	235.63	4.49	53.453		
800.00	800.00	777.42	776.99	2.64	2.54	91.24	-5.35	246.73	247.85	242.69	5.17	47.987		
900.00	900.00	869.01	867.99	3.00	2.88	91.89	-8.46	256.56	258.68	252.85	5.84	44.333		
1,000.00	1,000.00	959.84	957.86	3.36	3.23	92.64	-12.41	269.04	272.60	266.10	6.50	41.938		
1,100.00	1,100.00	1,049.74	1,046.37	3.72	3.60	93.46	-17.16	284.06	289.59	282.43	7.16	40.455		
1,200.00	1,200.00	1,138.57	1,133.29	4.08	3.99	94.30	-22.68	301.50	309.63	301.82	7.81	39.648		
1,300.00	1,300.00	1,226.16	1,218.41	4.44	4.41	95.14	-28.91	321.21	332.67	324.22	8.44	39.394		
1,400.00	1,400.00	1,312.39	1,301.54	4.79	4.84	95.96	-35.81	343.02	358.66	349.58	9.08	39.517		
1,500.00	1,499.98	1,397.37	1,382.77	5.14	5.31	-66.70	-43.35	366.84	386.90	377.22	9.68	39.980		
1,600.00	1,599.84	1,481.28	1,462.20	5.46	5.81	-65.99	-51.50	392.60	416.60	406.34	10.26	40.612		
1,700.00	1,699.45	1,564.04	1,539.74	5.80	6.34	-65.59	-60.22	420.17	447.69	436.84	10.84	41.297		
1,800.00	1,798.70	1,645.58	1,615.30	6.14	6.90	-65.42	-69.47	449.42	480.09	468.66	11.43	42.007		
1,900.00	1,897.47	1,725.86	1,688.79	6.49	7.49	-65.44	-79.21	480.20	513.80	501.78	12.03	42.716		
1,969.08	1,965.35	1,780.56	1,738.34	6.75	7.91	-65.54	-86.20	502.29	537.85	525.40	12.45	43.195		
2,000.00	1,995.66	1,804.82	1,760.18	6.86	8.11	-65.80	-89.39	512.38	548.87	536.23	12.64	43.413		
2,100.00	2,093.69	1,882.29	1,829.28	7.25	8.76	-66.53	-99.95	545.77	586.22	572.95	13.28	44.160		
2,200.00	2,191.72	1,958.17	1,896.02	7.65	9.45	-67.13	-110.83	580.18	626.06	612.15	13.91	45.002		
2,300.00	2,289.76	2,032.39	1,960.35	8.07	10.15	-67.61	-122.00	615.46	668.28	653.73	14.55	45.932		
2,400.00	2,387.79	2,104.92	2,022.28	8.49	10.88	-67.99	-133.38	651.46	712.77	697.59	15.18	46.940		
2,500.00	2,485.82	2,178.57	2,084.18	8.91	11.66	-68.30	-145.42	689.51	759.41	743.56	15.85	47.899		
2,600.00	2,583.86	2,266.54	2,157.71	9.35	12.62	-68.61	-159.98	735.54	806.82	790.10	16.72	48.242		
2,700.00	2,681.89	2,354.51	2,231.25	9.79	13.59	-68.89	-174.55	781.58	854.24	836.63	17.61	48.516		
2,800.00	2,779.92	2,442.48	2,304.78	10.24	14.58	-69.13	-189.11	827.62	901.68	883.17	18.50	48.732		
2,900.00	2,877.96	2,530.45	2,378.31	10.69	15.57	-69.36	-203.67	873.66	949.12	929.71	19.41	48.903		
3,000.00	2,975.99	2,618.42	2,451.84	11.14	16.57	-69.56	-218.24	919.70	996.58	976.26	20.32	49.037		
3,100.00	3,074.02	2,706.39	2,525.38	11.60	17.58	-69.74	-232.80	965.74	1,044.05	1,022.80	21.25	49.141		
3,200.00	3,172.06	2,805.64	2,598.91	12.06	18.72	-69.91	-247.36	1,011.77	1,091.52	1,069.28	22.24	49.075		
3,300.00	3,270.09	2,882.33	2,672.44	12.52	19.60	-70.06	-261.93	1,057.81	1,139.00	1,115.89	23.11	49.281		
3,400.00	3,368.12	2,970.30	2,745.98	12.98	20.62	-70.20	-276.49	1,103.85	1,186.48	1,162.43	24.05	49.326		
3,500.00	3,466.16	3,058.27	2,819.51	13.45	21.64	-70.33	-291.06	1,149.89	1,233.98	1,208.97	25.00	49.357		
3,600.00	3,564.19	3,146.24	2,893.04	13.92	22.67	-70.45	-305.62	1,195.93	1,281.47	1,255.52	25.95	49.377		
3,700.00	3,662.23	3,234.21	2,966.58	14.39	23.70	-70.57	-320.18	1,241.97	1,328.97	1,302.06	26.91	49.389		
3,800.00	3,760.26	3,322.18	3,040.11	14.86	24.73	-70.67	-334.75	1,288.00	1,376.47	1,348.61	27.87	49.394		
3,900.00	3,858.29	3,410.15	3,113.64	15.34	25.76	-70.77	-349.31	1,334.04	1,423.98	1,395.15	28.83	49.392		
4,000.00	3,956.33	3,501.88	3,187.18	15.81	26.83	-70.86	-363.87	1,380.08	1,471.49	1,441.67	29.82	49.348		
4,100.00	4,054.36	3,586.10	3,260.71	16.29	27.82	-70.94	-378.44	1,426.12	1,519.00	1,488.24	30.76	49.376		
4,200.00	4,152.39	3,674.07	3,334.24	16.77	28.86	-71.03	-393.00	1,472.16	1,566.52	1,534.78	31.74	49.362		
4,300.00	4,250.43	3,762.04	3,407.78	17.25	29.89	-71.10	-407.56	1,518.20	1,614.03	1,581.32	32.71	49.346		
4,400.00	4,348.46	3,850.01	3,481.31	17.73	30.93	-71.17	-422.13	1,564.23	1,661.55	1,627.87	33.68	49.328		
4,500.00	4,446.49	3,937.98	3,554.84	18.21	31.97	-71.24	-436.69	1,610.27	1,709.07	1,674.41	34.66	49.307		
4,600.00	4,544.53	4,025.95	3,628.37	18.69	33.01	-71.30	-451.26	1,656.31	1,756.59	1,720.95	35.64	49.286		
4,700.00	4,642.56	4,113.92	3,701.91	19.17	34.05	-71.36	-465.82	1,702.35	1,804.12	1,767.50	36.62	49.263		
4,800.00	4,740.59	4,201.89	3,775.44	19.65	35.09	-71.42	-480.38	1,748.39	1,851.64	1,814.04	37.61	49.239		
4,900.00	4,838.63	4,289.86	3,848.97	20.13	36.13	-71.47	-494.95	1,794.43	1,899.17	1,860.58	38.59	49.215		
5,000.00	4,936.66	4,377.83	3,922.51	20.62	37.17	-71.53	-509.51	1,840.47	1,946.70	1,907.12	39.58	49.190		

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-20-3N
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-20-3N	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	5,034.69	4,465.80	3,996.04	21.10	38.21	-71.57	-524.07	1,886.50	1,994.23	1,953.67	40.56	49.164		
5,200.00	5,132.73	4,553.77	4,069.57	21.59	39.25	-71.62	-538.64	1,932.54	2,041.76	2,000.21	41.55	49.139		
5,300.00	5,230.76	4,641.74	4,143.11	22.07	40.30	-71.67	-553.20	1,978.58	2,089.29	2,046.75	42.54	49.113		
5,400.00	5,328.79	4,729.71	4,216.64	22.56	41.34	-71.71	-567.76	2,024.62	2,136.82	2,093.29	43.53	49.087		
5,500.00	5,426.83	4,817.68	4,290.17	23.04	42.38	-71.75	-582.33	2,070.66	2,184.36	2,139.83	44.52	49.061		
5,600.00	5,524.86	4,905.65	4,363.71	23.53	43.43	-71.79	-596.89	2,116.70	2,231.89	2,186.37	45.52	49.035		
5,700.00	5,622.89	5,006.38	4,437.24	24.02	44.62	-71.83	-611.46	2,162.73	2,279.42	2,232.83	46.59	48.925		
5,800.00	5,720.93	5,081.59	4,510.77	24.50	45.52	-71.86	-626.02	2,208.77	2,326.96	2,279.46	47.50	48.984		
5,900.00	5,818.96	5,169.56	4,584.31	24.99	46.56	-71.90	-640.58	2,254.81	2,374.50	2,326.00	48.50	48.958		
6,000.00	5,916.99	5,257.53	4,657.84	25.48	47.61	-71.93	-655.15	2,300.85	2,422.03	2,372.54	49.50	48.933		
6,100.00	6,015.03	5,345.50	4,731.37	25.97	48.65	-71.96	-669.71	2,346.89	2,469.57	2,419.08	50.49	48.908		
6,200.00	6,113.06	5,433.47	4,804.91	26.45	49.70	-71.99	-684.27	2,392.93	2,517.11	2,465.62	51.49	48.883		
6,300.00	6,211.09	5,521.44	4,878.44	26.94	50.74	-72.02	-698.84	2,438.96	2,564.65	2,512.16	52.49	48.858		
6,400.00	6,309.13	5,609.41	4,951.97	27.43	51.79	-72.05	-713.40	2,485.00	2,612.19	2,558.69	53.49	48.834		
6,500.00	6,407.16	5,702.62	5,025.50	27.92	52.90	-72.08	-727.97	2,531.04	2,659.73	2,605.20	54.52	48.780		
6,600.00	6,505.19	5,785.35	5,099.04	28.41	53.88	-72.10	-742.53	2,577.08	2,707.27	2,651.77	55.49	48.786		
6,664.73	6,568.65	5,842.29	5,146.64	28.73	54.56	-72.12	-751.96	2,606.88	2,738.04	2,681.90	56.14	48.771		
6,700.00	6,603.27	5,873.29	5,172.55	28.90	54.93	-72.49	-757.09	2,623.10	2,754.86	2,698.37	56.49	48.767		
6,800.00	6,701.84	5,960.82	5,245.71	29.36	55.97	-73.50	-771.58	2,668.91	2,803.19	2,745.75	57.44	48.803		
6,900.00	6,800.94	6,047.73	5,318.36	29.78	57.01	-74.47	-785.97	2,714.39	2,852.38	2,794.05	58.32	48.907		
7,000.00	6,900.45	6,133.93	5,390.41	30.17	58.03	-75.40	-800.24	2,759.50	2,902.40	2,843.25	59.14	49.076		
7,100.00	7,000.24	6,219.30	5,461.77	30.53	59.05	-76.29	-814.37	2,804.18	2,953.21	2,893.31	59.89	49.307		
7,200.00	7,100.19	6,303.74	5,532.35	30.85	60.05	-77.14	-828.35	2,848.37	3,004.79	2,944.21	60.58	49.598		
7,233.81	7,134.00	6,332.06	5,556.03	30.95	60.39	86.33	-833.04	2,863.20	3,022.40	2,961.60	60.80	49.712		
7,300.00	7,200.19	6,069.40	7,200.19	31.12	70.83	89.58	-975.92	3,314.89	3,024.27	2,955.57	68.70	44.021		
7,333.81	7,234.00	8,103.21	7,234.00	31.21	70.87	89.58	-975.92	3,314.89	3,024.27	2,955.41	68.86	43.918		
7,350.00	7,250.18	8,119.91	7,250.69	31.26	70.89	-90.07	-976.17	3,314.89	3,024.27	2,955.32	68.95	43.864		
7,400.00	7,300.04	8,171.47	7,302.10	31.44	70.97	-90.07	-979.99	3,314.89	3,024.25	2,954.99	69.25	43.668		
7,450.00	7,349.39	8,223.02	7,352.94	31.66	71.06	-90.07	-988.40	3,314.91	3,024.21	2,954.58	69.63	43.431		
7,500.00	7,397.87	8,274.54	7,402.79	31.92	71.17	-90.07	-1,001.35	3,314.93	3,024.16	2,954.08	70.08	43.154		
7,550.00	7,445.09	8,326.02	7,451.23	32.22	71.29	-90.07	-1,018.70	3,314.95	3,024.08	2,953.49	70.59	42.839		
7,600.00	7,490.72	8,377.44	7,497.88	32.55	71.43	-90.07	-1,040.30	3,314.98	3,023.99	2,952.81	71.17	42.489		
7,650.00	7,534.38	8,428.79	7,542.34	32.92	71.59	-90.06	-1,065.96	3,315.02	3,023.87	2,952.06	71.82	42.106		
7,700.00	7,575.77	8,480.07	7,584.27	33.32	71.75	-90.06	-1,095.45	3,315.06	3,023.74	2,951.22	72.52	41.694		
7,750.00	7,614.55	8,531.26	7,623.34	33.75	71.93	-90.05	-1,128.51	3,315.11	3,023.60	2,950.31	73.29	41.254		
7,800.00	7,650.43	8,582.36	7,659.23	34.22	72.13	-90.05	-1,164.85	3,315.17	3,023.44	2,949.32	74.12	40.791		
7,850.00	7,683.15	8,633.35	7,691.68	34.71	72.33	-90.04	-1,204.16	3,315.22	3,023.27	2,948.26	75.01	40.307		
7,900.00	7,712.45	8,684.22	7,720.44	35.23	72.55	-90.04	-1,246.10	3,315.29	3,023.08	2,947.14	75.94	39.806		
7,950.00	7,738.11	8,734.98	7,745.33	35.78	72.78	-90.03	-1,290.32	3,315.35	3,022.88	2,945.95	76.93	39.293		
8,000.00	7,759.93	8,785.61	7,766.15	36.35	73.02	-90.03	-1,336.46	3,315.42	3,022.68	2,944.72	77.96	38.771		
8,050.00	7,777.75	8,836.12	7,782.79	36.93	73.27	-90.02	-1,384.13	3,315.49	3,022.47	2,943.44	79.03	38.244		
8,100.00	7,791.43	8,886.50	7,795.14	37.53	73.53	-90.01	-1,432.95	3,315.56	3,022.25	2,942.12	80.13	37.717		
8,150.00	7,800.87	8,936.74	7,803.14	38.14	73.79	-90.01	-1,482.54	3,315.64	3,022.03	2,940.78	81.25	37.193		
8,200.00	7,806.00	8,986.85	7,806.76	38.76	74.06	-90.00	-1,532.50	3,315.71	3,021.81	2,939.42	82.39	36.677		
8,233.89	7,807.00	9,020.75	7,807.00	39.18	74.25	-90.00	-1,566.40	3,315.76	3,021.66	2,938.49	83.17	36.332		
8,300.00	7,807.00	9,086.86	7,807.00	40.00	74.62	-90.00	-1,632.50	3,315.86	3,021.36	2,936.66	84.70	35.673		
8,400.00	7,807.00	9,186.86	7,807.00	41.29	75.21	-90.00	-1,732.51	3,316.00	3,020.91	2,933.83	87.08	34.691		
8,500.00	7,806.99	9,286.86	7,807.00	42.60	75.83	-90.00	-1,832.51	3,316.15	3,020.47	2,930.93	89.54	33.732		
8,600.00	7,806.99	9,386.86	7,807.00	43.95	76.48	-90.00	-1,932.51	3,316.30	3,020.02	2,927.95	92.07	32.800		
8,700.00	7,806.99	9,486.87	7,807.00	45.33	77.16	-90.00	-2,032.51	3,316.45	3,019.57	2,924.90	94.67	31.896		
8,800.00	7,806.99	9,586.87	7,807.00	46.74	77.87	-90.00	-2,132.52	3,316.59	3,019.13	2,921.80	97.32	31.022		
8,900.00	7,806.98	9,686.87	7,807.00	48.17	78.61	-90.00	-2,232.52	3,316.74	3,018.68	2,918.65	100.03	30.177		

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-20-3N
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-20-3N	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	7,806.98	9,786.87	7,807.00	49.62	79.37	-90.00	-2,332.52	3,316.89	3,018.23	2,915.44	102.79	29.363		
9,100.00	7,806.98	9,886.88	7,807.00	51.09	80.16	-90.00	-2,432.52	3,317.03	3,017.78	2,912.19	105.60	28.579		
9,200.00	7,806.98	9,986.88	7,807.00	52.59	80.99	-90.00	-2,532.53	3,317.18	3,017.33	2,908.89	108.44	27.824		
9,300.00	7,806.97	10,086.88	7,807.00	54.09	81.84	-90.00	-2,632.53	3,317.32	3,016.89	2,905.55	111.33	27.098		
9,400.00	7,806.97	10,186.88	7,807.00	55.62	82.72	-90.00	-2,732.53	3,317.47	3,016.44	2,902.18	114.26	26.400		
9,500.00	7,806.97	10,286.89	7,807.00	57.16	83.62	-90.00	-2,832.53	3,317.62	3,015.99	2,898.77	117.22	25.730		
9,600.00	7,806.97	10,386.89	7,807.00	58.71	84.55	-90.00	-2,932.54	3,317.76	3,015.54	2,895.33	120.21	25.086		
9,700.00	7,806.96	10,486.89	7,807.00	60.27	85.51	-90.00	-3,032.54	3,317.91	3,015.09	2,891.87	123.23	24.468		
9,800.00	7,806.96	10,586.90	7,807.00	61.84	86.50	-90.00	-3,132.54	3,318.05	3,014.64	2,888.37	126.27	23.874		
9,900.00	7,806.96	10,686.90	7,807.00	63.43	87.50	-90.00	-3,232.54	3,318.20	3,014.20	2,884.85	129.34	23.304		
10,000.00	7,806.96	10,786.90	7,807.00	65.02	88.54	-90.00	-3,332.55	3,318.35	3,013.75	2,881.31	132.44	22.756		
10,100.00	7,806.95	10,886.90	7,807.01	66.63	89.60	-90.00	-3,432.55	3,318.49	3,013.30	2,877.74	135.56	22.229		
10,200.00	7,806.95	10,986.91	7,807.01	68.24	90.68	-90.00	-3,532.55	3,318.64	3,012.85	2,874.16	138.69	21.723		
10,300.00	7,806.95	11,086.91	7,807.01	69.86	91.78	-90.00	-3,632.55	3,318.78	3,012.40	2,870.55	141.85	21.237		
10,400.00	7,806.95	11,186.91	7,807.01	71.49	92.91	-90.00	-3,732.56	3,318.93	3,011.95	2,866.93	145.02	20.769		
10,500.00	7,806.94	11,286.91	7,807.01	73.12	94.06	-90.00	-3,832.56	3,319.07	3,011.50	2,863.29	148.21	20.318		
10,600.00	7,806.94	11,386.92	7,807.01	74.76	95.23	-90.00	-3,932.56	3,319.22	3,011.05	2,859.63	151.42	19.885		
10,700.00	7,806.94	11,486.92	7,807.01	76.41	96.41	-90.00	-4,032.56	3,319.36	3,010.60	2,855.96	154.64	19.468		
10,800.00	7,806.94	11,586.92	7,807.01	78.06	97.62	-90.00	-4,132.57	3,319.51	3,010.15	2,852.27	157.88	19.066		
10,900.00	7,806.93	11,686.92	7,807.01	79.72	98.85	-90.00	-4,232.57	3,319.65	3,009.70	2,848.58	161.13	18.679		
11,000.00	7,806.93	11,786.93	7,807.01	81.38	100.09	-90.00	-4,332.57	3,319.79	3,009.25	2,844.87	164.39	18.306		
11,100.00	7,806.93	11,886.93	7,807.01	83.05	101.36	-90.00	-4,432.57	3,319.94	3,008.80	2,841.14	167.66	17.946		
11,200.00	7,806.93	11,986.93	7,807.01	84.72	102.63	-90.00	-4,532.58	3,320.08	3,008.35	2,837.41	170.94	17.599		
11,300.00	7,806.92	12,086.93	7,807.01	86.39	103.93	-90.00	-4,632.58	3,320.23	3,007.90	2,833.67	174.23	17.264		
11,400.00	7,806.92	12,186.94	7,807.01	88.07	105.24	-90.00	-4,732.58	3,320.37	3,007.45	2,829.92	177.53	16.940		
11,500.00	7,806.92	12,286.94	7,807.01	89.75	106.57	-90.00	-4,832.58	3,320.51	3,007.00	2,826.15	180.85	16.627		
11,600.00	7,806.92	12,386.94	7,807.01	91.44	107.91	-90.00	-4,932.59	3,320.66	3,006.55	2,822.38	184.17	16.325		
11,700.00	7,806.91	12,486.94	7,807.01	93.13	109.26	-90.00	-5,032.59	3,320.80	3,006.10	2,818.60	187.49	16.033		
11,800.00	7,806.91	12,586.95	7,807.01	94.82	110.63	-90.00	-5,132.59	3,320.94	3,005.65	2,814.82	190.83	15.750		
11,900.00	7,806.91	12,686.95	7,807.01	96.52	112.01	-90.00	-5,232.59	3,321.09	3,005.20	2,811.02	194.17	15.477		
12,000.00	7,806.91	12,786.95	7,807.01	98.21	113.40	-90.00	-5,332.60	3,321.23	3,004.74	2,807.22	197.52	15.212		
12,100.00	7,806.90	12,886.95	7,807.01	99.91	114.80	-90.00	-5,432.60	3,321.37	3,004.29	2,803.41	200.88	14.956		
12,200.00	7,806.90	12,986.96	7,807.01	101.62	116.22	-90.00	-5,532.60	3,321.52	3,003.84	2,799.60	204.24	14.707		
12,300.00	7,806.90	13,086.96	7,807.01	103.32	117.65	-90.00	-5,632.60	3,321.66	3,003.39	2,795.78	207.61	14.466		
12,400.00	7,806.90	13,186.96	7,807.01	105.03	119.08	-90.00	-5,732.61	3,321.80	3,002.94	2,791.95	210.99	14.233		
12,500.00	7,806.89	13,286.97	7,807.01	106.74	120.53	-90.00	-5,832.61	3,321.94	3,002.49	2,788.12	214.37	14.006		
12,600.00	7,806.89	13,386.97	7,807.01	108.45	121.99	-90.00	-5,932.61	3,322.09	3,002.03	2,784.28	217.75	13.786		
12,700.00	7,806.89	13,486.97	7,807.01	110.17	123.46	-90.00	-6,032.61	3,322.23	3,001.58	2,780.44	221.15	13.573		
12,800.00	7,806.89	13,586.97	7,807.01	111.88	124.93	-90.00	-6,132.62	3,322.37	3,001.13	2,776.59	224.54	13.366		
12,900.00	7,806.88	13,686.98	7,807.01	113.60	126.41	-90.00	-6,232.62	3,322.51	3,000.68	2,772.74	227.94	13.164		
13,000.00	7,806.88	13,786.98	7,807.01	115.32	127.91	-90.00	-6,332.62	3,322.65	3,000.23	2,768.88	231.35	12.969		
13,100.00	7,806.88	13,886.98	7,807.01	117.04	129.41	-90.00	-6,432.62	3,322.80	2,999.77	2,765.02	234.75	12.778		
13,200.00	7,806.88	13,986.98	7,807.01	118.76	130.92	-90.00	-6,532.63	3,322.94	2,999.32	2,761.15	238.17	12.593		
13,300.00	7,806.87	14,086.99	7,807.01	120.48	132.43	-90.00	-6,632.63	3,323.08	2,998.87	2,757.28	241.58	12.413		
13,400.00	7,806.87	14,186.99	7,807.01	122.21	133.95	-90.00	-6,732.63	3,323.22	2,998.41	2,753.41	245.00	12.238		
13,500.00	7,806.87	14,286.99	7,807.01	123.94	135.48	-90.00	-6,832.63	3,323.36	2,997.96	2,749.54	248.43	12.068		
13,600.00	7,806.87	14,386.99	7,807.01	125.66	137.02	-90.00	-6,932.64	3,323.50	2,997.51	2,745.66	251.85	11.902		
13,700.00	7,806.86	14,487.00	7,807.01	127.39	138.56	-90.00	-7,032.64	3,323.64	2,997.05	2,741.77	255.28	11.740		
13,800.00	7,806.86	14,587.00	7,807.01	129.12	140.11	-90.00	-7,132.64	3,323.78	2,996.60	2,737.89	258.71	11.583		
13,900.00	7,806.86	14,687.00	7,807.01	130.85	141.66	-90.00	-7,232.64	3,323.93	2,996.15	2,734.00	262.15	11.429		
14,000.00	7,806.86	14,787.00	7,807.01	132.59	143.22	-90.00	-7,332.65	3,324.07	2,995.69	2,730.10	265.59	11.279		
14,100.00	7,806.85	14,887.01	7,807.01	134.32	144.79	-90.00	-7,432.65	3,324.21	2,995.24	2,726.21	269.03	11.133		

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-20-3N
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-20-3N	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	7,806.85	14,987.01	7,807.01	136.06	146.36	-90.00	-7,532.65	3,324.35	2,994.79	2,722.31	272.47	10.991		
14,300.00	7,806.85	15,087.01	7,807.01	137.79	147.94	-90.00	-7,632.65	3,324.49	2,994.33	2,718.41	275.92	10.852		
14,400.00	7,806.85	15,187.01	7,807.01	139.53	149.52	-90.00	-7,732.66	3,324.63	2,993.88	2,714.51	279.37	10.717		
14,500.00	7,806.84	15,287.02	7,807.01	141.27	151.10	-90.00	-7,832.66	3,324.77	2,993.42	2,710.60	282.82	10.584		
14,600.00	7,806.84	15,387.02	7,807.01	143.00	152.69	-90.00	-7,932.66	3,324.91	2,992.97	2,706.69	286.28	10.455		
14,700.00	7,806.84	15,487.02	7,807.01	144.74	154.29	-90.00	-8,032.66	3,325.05	2,992.51	2,702.78	289.73	10.329		
14,800.00	7,806.84	15,587.02	7,807.01	146.48	155.88	-90.00	-8,132.66	3,325.19	2,992.06	2,698.87	293.19	10.205		
14,900.00	7,806.83	15,687.03	7,807.01	148.22	157.49	-90.00	-8,232.67	3,325.33	2,991.61	2,694.96	296.65	10.085		
15,000.00	7,806.83	15,787.03	7,807.01	149.97	159.09	-90.00	-8,332.67	3,325.47	2,991.15	2,691.04	300.11	9.967		
15,100.00	7,806.83	15,887.03	7,807.01	151.71	160.70	-90.00	-8,432.67	3,325.61	2,990.70	2,687.12	303.58	9.852		
15,200.00	7,806.83	15,987.03	7,807.01	153.45	162.32	-90.00	-8,532.67	3,325.74	2,990.24	2,683.20	307.04	9.739		
15,300.00	7,806.82	16,087.04	7,807.01	155.19	163.94	-90.00	-8,632.68	3,325.88	2,989.79	2,679.28	310.51	9.629		
15,400.00	7,806.82	16,187.04	7,807.01	156.94	165.56	-90.00	-8,732.68	3,326.02	2,989.33	2,675.35	313.98	9.521		
15,500.00	7,806.82	16,287.04	7,807.01	158.68	167.18	-90.00	-8,832.68	3,326.16	2,988.87	2,671.43	317.45	9.415		
15,600.00	7,806.82	16,387.04	7,807.01	160.43	168.81	-90.00	-8,932.68	3,326.30	2,988.42	2,667.50	320.92	9.312		
15,700.00	7,806.81	16,487.05	7,807.01	162.18	170.44	-90.00	-9,032.69	3,326.44	2,987.96	2,663.57	324.40	9.211		
15,800.00	7,806.81	16,587.05	7,807.01	163.92	172.08	-90.00	-9,132.69	3,326.58	2,987.51	2,659.64	327.87	9.112		
15,900.00	7,806.81	16,687.05	7,807.01	165.67	173.71	-90.00	-9,232.69	3,326.72	2,987.05	2,655.70	331.35	9.015		
16,000.00	7,806.81	16,787.06	7,807.01	167.42	175.35	-90.00	-9,332.69	3,326.85	2,986.60	2,651.77	334.83	8.920		
16,100.00	7,806.80	16,887.06	7,807.00	169.17	177.00	-90.00	-9,432.70	3,326.99	2,986.14	2,647.83	338.31	8.827		
16,200.00	7,806.80	16,987.06	7,807.00	170.91	178.64	-90.00	-9,532.70	3,327.13	2,985.68	2,643.90	341.79	8.735		
16,300.00	7,806.80	17,087.06	7,807.00	172.66	180.29	-90.00	-9,632.70	3,327.27	2,985.23	2,639.96	345.27	8.646		
16,400.00	7,806.80	17,187.07	7,807.00	174.41	181.94	-90.00	-9,732.70	3,327.41	2,984.77	2,636.02	348.75	8.558		
16,500.00	7,806.79	17,287.07	7,807.00	176.16	183.59	-90.00	-9,832.71	3,327.54	2,984.31	2,632.07	352.24	8.472		
16,600.00	7,806.79	17,387.07	7,807.00	177.92	185.25	-90.00	-9,932.71	3,327.68	2,983.86	2,628.13	355.72	8.388		
16,700.00	7,806.79	17,487.07	7,807.00	179.67	186.91	-90.00	-10,032.71	3,327.82	2,983.40	2,624.19	359.21	8.305		
16,800.00	7,806.79	17,587.08	7,807.00	181.42	188.57	-90.00	-10,132.71	3,327.96	2,982.94	2,620.24	362.70	8.224		
16,900.00	7,806.78	17,687.08	7,807.00	183.17	190.23	-90.00	-10,232.72	3,328.09	2,982.49	2,616.30	366.19	8.145		
17,000.00	7,806.78	17,787.08	7,807.00	184.92	191.90	-90.00	-10,332.72	3,328.23	2,982.03	2,612.35	369.68	8.067		
17,100.00	7,806.78	17,887.08	7,807.00	186.68	193.56	-90.00	-10,432.72	3,328.37	2,981.57	2,608.40	373.17	7.990		
17,200.00	7,806.78	17,987.09	7,807.00	188.43	195.23	-90.00	-10,532.72	3,328.50	2,981.11	2,604.45	376.66	7.915		
17,300.00	7,806.77	18,087.09	7,807.00	190.18	196.90	-90.00	-10,632.73	3,328.64	2,980.66	2,600.50	380.16	7.841		
17,400.00	7,806.77	18,187.09	7,807.00	191.94	198.57	-90.00	-10,732.73	3,328.78	2,980.20	2,596.55	383.65	7.768		
17,500.00	7,806.77	18,287.09	7,807.00	193.69	200.25	-90.00	-10,832.73	3,328.91	2,979.74	2,592.59	387.15	7.697		
17,600.00	7,806.77	18,387.10	7,807.00	195.45	201.92	-90.00	-10,932.73	3,329.05	2,979.28	2,588.64	390.64	7.627		
17,700.00	7,806.76	18,487.10	7,807.00	197.20	203.60	-90.00	-11,032.74	3,329.19	2,978.82	2,584.68	394.14	7.558		
17,800.00	7,806.76	18,587.10	7,807.00	198.96	205.28	-90.00	-11,132.74	3,329.32	2,978.37	2,580.73	397.64	7.490		
17,877.44	7,807.00	18,664.55	7,807.00	200.32	206.56	-90.00	-11,210.18	3,329.43	2,977.94	2,577.74	400.20	7.441 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.40	251.92	251.93					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.40	251.92	251.93	251.66	0.27	937.042		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.40	251.92	251.93	250.94	0.99	255.557		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.40	251.92	251.93	250.22	1.70	147.954		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.40	251.92	251.93	249.51	2.42	104.116 CC, ES		
500.00	500.00	492.16	492.15	1.57	1.53	90.41	-1.81	253.35	253.48	250.38	3.10	81.762		
600.00	600.00	584.14	584.01	1.93	1.85	90.67	-3.03	257.61	258.12	254.35	3.78	68.363		
700.00	700.00	675.73	675.30	2.29	2.18	91.10	-5.06	264.67	265.87	261.42	4.45	59.734		
800.00	800.00	766.76	765.76	2.64	2.52	91.64	-7.87	274.46	276.70	271.57	5.12	54.005		
900.00	900.00	857.06	855.12	3.00	2.88	92.28	-11.44	286.89	290.61	284.82	5.79	50.174		
1,000.00	1,000.00	946.44	943.14	3.36	3.25	92.98	-15.73	301.87	307.58	301.12	6.45	47.654		
1,100.00	1,100.00	1,034.77	1,029.59	3.72	3.65	93.71	-20.72	319.24	327.57	320.46	7.11	46.075		
1,200.00	1,200.00	1,121.88	1,114.27	4.08	4.06	94.45	-26.36	338.88	350.55	342.80	7.76	45.201		
1,300.00	1,300.00	1,207.65	1,197.00	4.44	4.50	95.17	-32.60	360.63	376.47	368.08	8.39	44.878		
1,400.00	1,400.00	1,291.96	1,277.62	4.79	4.97	95.85	-39.40	384.32	405.25	396.24	9.01	44.961		
1,500.00	1,499.98	1,374.96	1,356.25	5.14	5.47	-66.85	-46.73	409.85	436.20	426.59	9.61	45.387		
1,600.00	1,599.84	1,456.81	1,433.01	5.46	6.00	-66.14	-54.57	437.17	468.55	458.37	10.19	45.994		
1,700.00	1,699.45	1,537.46	1,507.81	5.80	6.56	-65.70	-62.88	466.14	502.22	491.46	10.77	46.652		
1,800.00	1,798.70	1,616.85	1,580.59	6.14	7.15	-65.48	-71.63	496.62	537.15	525.80	11.35	47.332		
1,900.00	1,897.47	1,694.93	1,651.28	6.49	7.77	-65.41	-80.77	528.48	573.32	561.38	11.94	48.004		
1,969.08	1,965.35	1,748.08	1,698.88	6.75	8.22	-65.44	-87.30	551.22	599.02	586.66	12.36	48.448		
2,000.00	1,995.66	1,771.65	1,719.84	6.86	8.43	-65.69	-90.27	561.57	610.77	598.22	12.55	48.651		
2,100.00	2,093.69	1,846.84	1,786.11	7.25	9.11	-66.40	-100.06	595.70	650.43	637.25	13.18	49.350		
2,200.00	2,191.72	1,920.40	1,850.03	7.65	9.81	-66.99	-110.11	630.71	692.50	678.69	13.81	50.150		
2,300.00	2,289.76	1,992.30	1,911.57	8.07	10.53	-67.47	-120.36	666.43	736.87	722.43	14.44	51.035		
2,400.00	2,387.79	2,062.50	1,970.75	8.49	11.28	-67.87	-130.78	702.73	783.44	768.37	15.07	51.990		
2,500.00	2,485.82	2,130.99	2,027.57	8.91	12.05	-68.19	-141.33	739.48	832.10	816.41	15.69	53.019		
2,600.00	2,583.86	2,198.31	2,082.52	9.35	12.83	-68.45	-152.06	776.87	882.78	866.46	16.32	54.092		
2,700.00	2,681.89	2,283.89	2,151.82	9.79	13.86	-68.73	-165.90	825.12	934.38	917.19	17.19	54.346		
2,800.00	2,779.92	2,369.46	2,221.12	10.24	14.90	-68.98	-179.75	873.37	986.00	967.92	18.08	54.539		
2,900.00	2,877.96	2,455.03	2,290.43	10.69	15.95	-69.20	-193.60	921.62	1,037.63	1,018.66	18.97	54.685		
3,000.00	2,975.99	2,540.61	2,359.73	11.14	17.00	-69.40	-207.45	969.87	1,089.27	1,069.39	19.88	54.792		
3,100.00	3,074.02	2,626.18	2,429.03	11.60	18.07	-69.59	-221.29	1,018.12	1,140.93	1,120.13	20.79	54.868		
3,200.00	3,172.06	2,711.75	2,498.34	12.06	19.14	-69.76	-235.14	1,066.37	1,192.58	1,170.87	21.71	54.920		
3,300.00	3,270.09	2,797.32	2,567.64	12.52	20.21	-69.91	-248.99	1,114.62	1,244.25	1,221.61	22.64	54.952		
3,400.00	3,368.12	2,882.90	2,636.94	12.98	21.29	-70.05	-262.84	1,162.87	1,295.92	1,272.35	23.58	54.968		
3,500.00	3,466.16	2,968.47	2,706.24	13.45	22.37	-70.19	-276.68	1,211.12	1,347.60	1,323.08	24.51	54.971		
3,600.00	3,564.19	3,054.04	2,775.55	13.92	23.45	-70.31	-290.53	1,259.37	1,399.28	1,373.82	25.46	54.965		
3,700.00	3,662.23	3,139.62	2,844.85	14.39	24.54	-70.42	-304.38	1,307.62	1,450.97	1,424.56	26.41	54.950		
3,800.00	3,760.26	3,225.19	2,914.15	14.86	25.63	-70.53	-318.22	1,355.87	1,502.66	1,475.30	27.36	54.929		
3,900.00	3,858.29	3,310.76	2,983.46	15.34	26.72	-70.63	-332.07	1,404.12	1,554.35	1,526.04	28.31	54.903		
4,000.00	3,956.33	3,403.67	3,052.76	15.81	27.90	-70.72	-345.92	1,452.37	1,606.05	1,576.73	29.31	54.787		
4,100.00	4,054.36	3,481.91	3,122.06	16.29	28.90	-70.80	-359.77	1,500.61	1,657.75	1,627.52	30.23	54.839		
4,200.00	4,152.39	3,567.48	3,191.37	16.77	30.00	-70.88	-373.61	1,548.86	1,709.45	1,678.26	31.19	54.803		
4,300.00	4,250.43	3,653.05	3,260.67	17.25	31.09	-70.96	-387.46	1,597.11	1,761.16	1,729.00	32.16	54.765		
4,400.00	4,348.46	3,738.62	3,329.97	17.73	32.19	-71.03	-401.31	1,645.36	1,812.86	1,779.74	33.13	54.726		
4,500.00	4,446.49	3,824.20	3,399.28	18.21	33.29	-71.10	-415.16	1,693.61	1,864.57	1,830.47	34.10	54.685		
4,600.00	4,544.53	3,909.77	3,468.58	18.69	34.38	-71.17	-429.00	1,741.86	1,916.28	1,881.21	35.07	54.644		
4,700.00	4,642.56	3,995.34	3,537.88	19.17	35.48	-71.23	-442.85	1,790.11	1,967.99	1,931.95	36.04	54.603		
4,800.00	4,740.59	4,080.92	3,607.18	19.65	36.58	-71.28	-456.70	1,838.36	2,019.71	1,982.69	37.02	54.561		
4,900.00	4,838.63	4,166.49	3,676.49	20.13	37.68	-71.34	-470.54	1,886.61	2,071.42	2,033.43	37.99	54.519		
5,000.00	4,936.66	4,252.06	3,745.79	20.62	38.79	-71.39	-484.39	1,934.86	2,123.14	2,084.17	38.97	54.477		

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-20-3N
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-20-3N	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	5,034.69	4,337.63	3,815.09	21.10	39.89	-71.44	-498.24	1,983.11	2,174.86	2,134.90	39.95	54.435		
5,200.00	5,132.73	4,423.21	3,884.40	21.59	40.99	-71.49	-512.09	2,031.36	2,226.58	2,185.64	40.93	54.393		
5,300.00	5,230.76	4,508.78	3,953.70	22.07	42.09	-71.53	-525.93	2,079.61	2,278.30	2,236.38	41.92	54.352		
5,400.00	5,328.79	4,594.35	4,023.00	22.56	43.19	-71.58	-539.78	2,127.86	2,330.02	2,287.12	42.90	54.312		
5,500.00	5,426.83	4,679.93	4,092.31	23.04	44.30	-71.62	-553.63	2,176.11	2,381.74	2,337.85	43.89	54.271		
5,600.00	5,524.86	4,765.50	4,161.61	23.53	45.40	-71.66	-567.48	2,224.36	2,433.46	2,388.59	44.87	54.231		
5,700.00	5,622.89	4,851.07	4,230.91	24.02	46.51	-71.70	-581.32	2,272.61	2,485.19	2,439.33	45.86	54.192		
5,800.00	5,720.93	4,936.64	4,300.22	24.50	47.61	-71.73	-595.17	2,320.86	2,536.91	2,490.06	46.85	54.153		
5,900.00	5,818.96	5,022.22	4,369.52	24.99	48.71	-71.77	-609.02	2,369.11	2,588.64	2,540.80	47.84	54.115		
6,000.00	5,916.99	5,107.79	4,438.82	25.48	49.82	-71.80	-622.86	2,417.36	2,640.36	2,591.54	48.83	54.077		
6,100.00	6,015.03	5,193.36	4,508.13	25.97	50.92	-71.83	-636.71	2,465.61	2,692.09	2,642.27	49.82	54.040		
6,200.00	6,113.06	5,278.94	4,577.43	26.45	52.03	-71.86	-650.56	2,513.86	2,743.82	2,693.01	50.81	54.003		
6,300.00	6,211.09	5,364.51	4,646.73	26.94	53.14	-71.89	-664.41	2,562.11	2,795.54	2,743.74	51.80	53.967		
6,400.00	6,309.13	5,450.08	4,716.03	27.43	54.24	-71.92	-678.25	2,610.36	2,847.27	2,794.48	52.79	53.932		
6,500.00	6,407.16	5,535.65	4,785.34	27.92	55.35	-71.95	-692.10	2,658.61	2,899.00	2,845.21	53.79	53.897		
6,600.00	6,505.19	5,621.23	4,854.64	28.41	56.45	-71.98	-705.95	2,706.86	2,950.73	2,895.95	54.78	53.863		
6,664.73	6,568.65	5,676.62	4,899.50	28.73	57.17	-72.00	-714.91	2,738.09	2,984.22	2,928.79	55.43	53.841		
6,700.00	6,603.27	5,706.77	4,923.92	28.90	57.56	-72.41	-719.79	2,755.09	3,002.52	2,946.74	55.77	53.833		
6,800.00	6,701.84	5,808.14	4,992.83	29.36	58.87	-73.55	-733.56	2,803.07	3,055.01	2,998.18	56.82	53.763		
6,900.00	6,800.94	5,876.30	5,061.22	29.78	59.75	-74.65	-747.22	2,850.68	3,108.34	3,050.75	57.60	53.967		
7,000.00	6,900.45	5,959.98	5,128.99	30.17	60.83	-75.72	-760.77	2,897.86	3,162.47	3,104.06	58.41	54.139		
7,100.00	7,000.24	6,042.80	5,196.07	30.53	61.91	-76.76	-774.17	2,944.56	3,217.35	3,158.19	59.17	54.378		
7,200.00	7,100.19	6,124.67	5,262.37	30.85	62.96	-77.76	-787.42	2,990.72	3,272.95	3,213.10	59.86	54.681		
7,233.81	7,134.00	6,152.12	5,284.59	30.95	63.32	85.66	-791.86	3,006.20	3,291.91	3,231.84	60.07	54.800		
7,300.00	7,200.19	6,205.72	5,328.00	31.12	64.01	85.89	-800.53	3,036.42	3,329.11	3,268.63	60.48	55.046		
7,333.81	7,234.00	6,233.10	5,350.18	31.21	64.37	86.00	-804.96	3,051.86	3,348.13	3,287.44	60.69	55.170		
7,350.00	7,250.18	8,272.73	7,250.23	31.26	77.94	-90.03	-976.09	3,647.34	3,356.71	3,286.80	69.90	48.020		
7,400.00	7,300.04	8,322.86	7,300.22	31.44	78.01	-90.03	-979.70	3,647.36	3,356.71	3,286.50	70.21	47.810		
7,450.00	7,349.39	8,373.00	7,349.70	31.66	78.09	-90.03	-987.66	3,647.41	3,356.71	3,286.12	70.59	47.555		
7,500.00	7,397.87	8,423.13	7,398.29	31.92	78.18	-90.03	-999.92	3,647.48	3,356.71	3,285.68	71.03	47.257		
7,550.00	7,445.09	8,473.26	7,445.63	32.22	78.29	-90.03	-1,016.37	3,647.58	3,356.71	3,285.17	71.54	46.919		
7,600.00	7,490.72	8,523.38	7,491.34	32.55	78.41	-90.03	-1,036.89	3,647.71	3,356.71	3,284.59	72.12	46.542		
7,650.00	7,534.38	8,573.50	7,535.08	32.92	78.55	-90.03	-1,061.33	3,647.85	3,356.72	3,283.95	72.76	46.131		
7,700.00	7,575.77	8,623.61	7,576.51	33.32	78.70	-90.03	-1,089.49	3,648.03	3,356.72	3,283.25	73.47	45.688		
7,750.00	7,614.55	8,673.72	7,615.32	33.75	78.86	-90.03	-1,121.16	3,648.22	3,356.73	3,282.49	74.24	45.217		
7,800.00	7,650.43	8,723.82	7,651.21	34.22	79.03	-90.02	-1,156.09	3,648.43	3,356.73	3,281.67	75.06	44.719		
7,850.00	7,683.15	8,773.90	7,683.90	34.71	79.21	-90.02	-1,194.01	3,648.66	3,356.74	3,280.79	75.94	44.201		
7,900.00	7,712.45	8,823.98	7,713.16	35.23	79.41	-90.02	-1,234.63	3,648.91	3,356.74	3,279.87	76.88	43.664		
7,950.00	7,738.11	8,874.05	7,738.75	35.78	79.61	-90.02	-1,277.65	3,649.17	3,356.75	3,278.89	77.86	43.114		
8,000.00	7,759.93	8,924.11	7,760.49	36.35	79.83	-90.01	-1,322.72	3,649.45	3,356.76	3,277.87	78.88	42.554		
8,050.00	7,777.75	8,974.16	7,778.21	36.93	80.05	-90.01	-1,369.51	3,649.73	3,356.76	3,276.82	79.94	41.990		
8,100.00	7,791.43	9,024.20	7,791.78	37.53	80.29	-90.01	-1,417.65	3,650.02	3,356.77	3,275.74	81.03	41.425		
8,150.00	7,800.87	9,074.22	7,801.09	38.14	80.53	-90.01	-1,466.79	3,650.32	3,356.78	3,274.63	82.15	40.863		
8,200.00	7,806.00	9,124.23	7,806.09	38.76	80.77	-90.00	-1,516.53	3,650.63	3,356.78	3,273.51	83.27	40.310		
8,233.89	7,807.00	9,158.13	7,807.00	39.18	80.95	-90.00	-1,550.41	3,650.83	3,356.79	3,272.75	84.04	39.942		
8,300.00	7,807.00	9,224.24	7,807.00	40.00	81.29	-90.00	-1,616.52	3,651.24	3,356.80	3,271.23	85.56	39.231		
8,400.00	7,807.00	9,324.24	7,807.00	41.29	81.82	-90.00	-1,716.52	3,651.84	3,356.81	3,268.88	87.93	38.174		
8,500.00	7,806.99	9,424.24	7,807.00	42.60	82.39	-90.00	-1,816.51	3,652.45	3,356.83	3,266.45	90.38	37.142		
8,600.00	7,806.99	9,524.24	7,806.99	43.95	82.98	-90.00	-1,916.51	3,653.06	3,356.84	3,263.95	92.89	36.136		
8,700.00	7,806.99	9,624.24	7,806.99	45.33	83.59	-90.00	-2,016.51	3,653.67	3,356.86	3,261.38	95.47	35.160		
8,800.00	7,806.99	9,724.24	7,806.99	46.74	84.24	-90.00	-2,116.51	3,654.28	3,356.87	3,258.76	98.11	34.214		
8,900.00	7,806.98	9,824.24	7,806.99	48.17	84.91	-90.00	-2,216.51	3,654.89	3,356.89	3,256.08	100.81	33.299		

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-20-3N
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-20-3N	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	7,806.98	9,924.24	7,806.99	49.62	85.60	-90.00	-2,316.50	3,655.50	3,356.90	3,253.35	103.55	32.417		
9,100.00	7,806.98	10,024.24	7,806.99	51.09	86.33	-90.00	-2,416.50	3,656.11	3,356.92	3,250.57	106.35	31.566		
9,200.00	7,806.98	10,124.24	7,806.99	52.59	87.07	-90.00	-2,516.50	3,656.72	3,356.93	3,247.75	109.18	30.746		
9,300.00	7,806.97	10,224.24	7,806.98	54.09	87.85	-90.00	-2,616.50	3,657.32	3,356.95	3,244.89	112.06	29.957		
9,400.00	7,806.97	10,324.24	7,806.98	55.62	88.65	-90.00	-2,716.50	3,657.93	3,356.96	3,241.99	114.97	29.198		
9,500.00	7,806.97	10,424.24	7,806.98	57.16	89.48	-90.00	-2,816.50	3,658.54	3,356.97	3,239.06	117.92	28.469		
9,600.00	7,806.97	10,524.24	7,806.98	58.71	90.33	-90.00	-2,916.49	3,659.15	3,356.99	3,236.09	120.90	27.767		
9,700.00	7,806.96	10,624.24	7,806.98	60.27	91.21	-90.00	-3,016.49	3,659.76	3,357.00	3,233.10	123.91	27.093		
9,800.00	7,806.96	10,724.24	7,806.98	61.84	92.11	-90.00	-3,116.49	3,660.37	3,357.02	3,230.08	126.94	26.445		
9,900.00	7,806.96	10,824.24	7,806.98	63.43	93.04	-90.00	-3,216.49	3,660.98	3,357.03	3,227.03	130.00	25.823		
10,000.00	7,806.96	10,924.24	7,806.97	65.02	93.99	-90.00	-3,316.49	3,661.59	3,357.05	3,223.96	133.09	25.224		
10,100.00	7,806.95	11,024.24	7,806.97	66.63	94.96	-90.00	-3,416.48	3,662.20	3,357.06	3,220.87	136.20	24.649		
10,200.00	7,806.95	11,124.24	7,806.97	68.24	95.96	-90.00	-3,516.48	3,662.81	3,357.08	3,217.75	139.32	24.095		
10,300.00	7,806.95	11,224.24	7,806.97	69.86	96.98	-90.00	-3,616.48	3,663.41	3,357.09	3,214.62	142.47	23.563		
10,400.00	7,806.95	11,324.24	7,806.97	71.49	98.03	-90.00	-3,716.48	3,664.02	3,357.11	3,211.47	145.64	23.051		
10,500.00	7,806.94	11,424.24	7,806.97	73.12	99.09	-90.00	-3,816.48	3,664.63	3,357.12	3,208.30	148.82	22.558		
10,600.00	7,806.94	11,524.24	7,806.97	74.76	100.18	-90.00	-3,916.47	3,665.24	3,357.14	3,205.11	152.02	22.083		
10,700.00	7,806.94	11,624.24	7,806.96	76.41	101.29	-90.00	-4,016.47	3,665.85	3,357.15	3,201.92	155.23	21.626		
10,800.00	7,806.94	11,724.24	7,806.96	78.06	102.41	-90.00	-4,116.47	3,666.46	3,357.16	3,198.70	158.46	21.186		
10,900.00	7,806.93	11,824.24	7,806.96	79.72	103.56	-90.00	-4,216.47	3,667.07	3,357.18	3,195.48	161.70	20.761		
11,000.00	7,806.93	11,924.24	7,806.96	81.38	104.73	-90.00	-4,316.47	3,667.68	3,357.19	3,192.24	164.96	20.352		
11,100.00	7,806.93	12,024.24	7,806.96	83.05	105.91	-90.00	-4,416.47	3,668.29	3,357.21	3,188.99	168.22	19.957		
11,200.00	7,806.93	12,124.24	7,806.96	84.72	107.12	-90.00	-4,516.46	3,668.89	3,357.22	3,185.72	171.50	19.576		
11,300.00	7,806.92	12,224.24	7,806.96	86.39	108.34	-90.00	-4,616.46	3,669.50	3,357.24	3,182.45	174.79	19.208		
11,400.00	7,806.92	12,324.24	7,806.95	88.07	109.58	-90.00	-4,716.46	3,670.11	3,357.25	3,179.17	178.08	18.852		
11,500.00	7,806.92	12,424.24	7,806.95	89.75	110.83	-90.00	-4,816.46	3,670.72	3,357.27	3,175.88	181.39	18.509		
11,600.00	7,806.92	12,524.24	7,806.95	91.44	112.10	-90.00	-4,916.46	3,671.33	3,357.28	3,172.58	184.71	18.176		
11,700.00	7,806.91	12,624.24	7,806.95	93.13	113.39	-90.00	-5,016.45	3,671.94	3,357.30	3,169.27	188.03	17.855		
11,800.00	7,806.91	12,724.24	7,806.95	94.82	114.69	-90.00	-5,116.45	3,672.55	3,357.31	3,165.95	191.36	17.544		
11,900.00	7,806.91	12,824.24	7,806.95	96.52	116.00	-90.00	-5,216.45	3,673.16	3,357.33	3,162.63	194.70	17.244		
12,000.00	7,806.91	12,924.24	7,806.95	98.21	117.33	-90.00	-5,316.45	3,673.77	3,357.34	3,159.29	198.05	16.952		
12,100.00	7,806.90	13,024.24	7,806.94	99.91	118.67	-90.00	-5,416.45	3,674.38	3,357.36	3,155.96	201.40	16.670		
12,200.00	7,806.90	13,124.24	7,806.94	101.62	120.02	-90.00	-5,516.45	3,674.98	3,357.37	3,152.61	204.76	16.397		
12,300.00	7,806.90	13,224.24	7,806.94	103.32	121.39	-90.00	-5,616.44	3,675.59	3,357.38	3,149.26	208.12	16.132		
12,400.00	7,806.90	13,324.24	7,806.94	105.03	122.77	-90.00	-5,716.44	3,676.20	3,357.40	3,145.90	211.50	15.875		
12,500.00	7,806.89	13,424.24	7,806.94	106.74	124.16	-90.00	-5,816.44	3,676.81	3,357.41	3,142.54	214.87	15.625		
12,600.00	7,806.89	13,524.24	7,806.94	108.45	125.56	-90.00	-5,916.44	3,677.42	3,357.43	3,139.17	218.26	15.383		
12,700.00	7,806.89	13,624.24	7,806.94	110.17	126.97	-90.00	-6,016.44	3,678.03	3,357.44	3,135.80	221.64	15.148		
12,800.00	7,806.89	13,724.24	7,806.93	111.88	128.40	-90.00	-6,116.43	3,678.64	3,357.46	3,132.42	225.04	14.920		
12,900.00	7,806.88	13,824.24	7,806.93	113.60	129.83	-90.00	-6,216.43	3,679.25	3,357.47	3,129.04	228.43	14.698		
13,000.00	7,806.88	13,924.24	7,806.93	115.32	131.27	-90.00	-6,316.43	3,679.86	3,357.49	3,125.65	231.83	14.482		
13,100.00	7,806.88	14,024.24	7,806.93	117.04	132.72	-90.00	-6,416.43	3,680.47	3,357.50	3,122.26	235.24	14.273		
13,200.00	7,806.88	14,124.24	7,806.93	118.76	134.18	-90.00	-6,516.43	3,681.07	3,357.52	3,118.87	238.65	14.069		
13,300.00	7,806.87	14,224.24	7,806.93	120.48	135.65	-90.00	-6,616.42	3,681.68	3,357.53	3,115.47	242.06	13.870		
13,400.00	7,806.87	14,324.24	7,806.93	122.21	137.13	-90.00	-6,716.42	3,682.29	3,357.55	3,112.06	245.48	13.677		
13,500.00	7,806.87	14,424.24	7,806.92	123.94	138.62	-90.00	-6,816.42	3,682.90	3,357.56	3,108.66	248.90	13.489		
13,600.00	7,806.87	14,524.24	7,806.92	125.66	140.11	-90.00	-6,916.42	3,683.51	3,357.57	3,105.25	252.33	13.306		
13,700.00	7,806.86	14,624.24	7,806.92	127.39	141.61	-90.00	-7,016.42	3,684.12	3,357.59	3,101.83	255.76	13.128		
13,800.00	7,806.86	14,724.24	7,806.92	129.12	143.12	-90.00	-7,116.42	3,684.73	3,357.60	3,098.42	259.19	12.954		
13,900.00	7,806.86	14,824.24	7,806.92	130.85	144.63	-90.00	-7,216.41	3,685.34	3,357.62	3,095.00	262.62	12.785		
14,000.00	7,806.86	14,924.24	7,806.92	132.59	146.15	-90.00	-7,316.41	3,685.95	3,357.63	3,091.57	266.06	12.620		
14,100.00	7,806.85	15,024.24	7,806.92	134.32	147.68	-90.00	-7,416.41	3,686.55	3,357.65	3,088.15	269.50	12.459		

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-20-3N
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-20-3N	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	7,806.85	15,124.24	7,806.91	136.06	149.21	-90.00	-7,516.41	3,687.16	3,357.66	3,084.72	272.94	12.302		
14,300.00	7,806.85	15,224.24	7,806.91	137.79	150.75	-90.00	-7,616.41	3,687.77	3,357.68	3,081.29	276.39	12.148		
14,400.00	7,806.85	15,324.24	7,806.91	139.53	152.30	-90.00	-7,716.40	3,688.38	3,357.69	3,077.86	279.83	11.999		
14,500.00	7,806.84	15,424.24	7,806.91	141.27	153.85	-90.00	-7,816.40	3,688.99	3,357.71	3,074.42	283.28	11.853		
14,600.00	7,806.84	15,524.24	7,806.91	143.00	155.41	-90.00	-7,916.40	3,689.60	3,357.72	3,070.98	286.74	11.710		
14,700.00	7,806.84	15,624.24	7,806.91	144.74	156.97	-90.00	-8,016.40	3,690.21	3,357.74	3,067.54	290.19	11.571		
14,800.00	7,806.84	15,724.24	7,806.91	146.48	158.54	-90.00	-8,116.40	3,690.82	3,357.75	3,064.10	293.65	11.435		
14,900.00	7,806.83	15,824.24	7,806.90	148.22	160.11	-90.00	-8,216.39	3,691.43	3,357.77	3,060.66	297.11	11.302		
15,000.00	7,806.83	15,924.24	7,806.90	149.97	161.69	-90.00	-8,316.39	3,692.04	3,357.78	3,057.21	300.57	11.171		
15,100.00	7,806.83	16,024.24	7,806.90	151.71	163.27	-90.00	-8,416.39	3,692.64	3,357.79	3,053.76	304.03	11.044		
15,200.00	7,806.83	16,124.24	7,806.90	153.45	164.85	-90.00	-8,516.39	3,693.25	3,357.81	3,050.31	307.50	10.920		
15,300.00	7,806.82	16,224.24	7,806.90	155.19	166.44	-90.00	-8,616.39	3,693.86	3,357.82	3,046.86	310.96	10.798		
15,400.00	7,806.82	16,324.24	7,806.90	156.94	168.04	-90.00	-8,716.39	3,694.47	3,357.84	3,043.41	314.43	10.679		
15,500.00	7,806.82	16,424.24	7,806.90	158.68	169.64	-90.00	-8,816.38	3,695.08	3,357.85	3,039.95	317.90	10.563		
15,600.00	7,806.82	16,524.24	7,806.89	160.43	171.24	-90.00	-8,916.38	3,695.69	3,357.87	3,036.49	321.37	10.448		
15,700.00	7,806.81	16,624.24	7,806.89	162.18	172.84	-90.00	-9,016.38	3,696.30	3,357.88	3,033.03	324.85	10.337		
15,800.00	7,806.81	16,724.24	7,806.89	163.92	174.45	-90.00	-9,116.38	3,696.91	3,357.90	3,029.57	328.32	10.227		
15,900.00	7,806.81	16,824.24	7,806.89	165.67	176.07	-90.00	-9,216.38	3,697.52	3,357.91	3,026.11	331.80	10.120		
16,000.00	7,806.81	16,924.24	7,806.89	167.42	177.68	-90.00	-9,316.37	3,698.13	3,357.93	3,022.65	335.28	10.015		
16,100.00	7,806.80	17,024.24	7,806.89	169.17	179.30	-90.00	-9,416.37	3,698.73	3,357.94	3,019.18	338.76	9.913		
16,200.00	7,806.80	17,124.24	7,806.88	170.91	180.93	-90.00	-9,516.37	3,699.34	3,357.96	3,015.72	342.24	9.812		
16,300.00	7,806.80	17,224.24	7,806.88	172.66	182.55	-90.00	-9,616.37	3,699.95	3,357.97	3,012.25	345.72	9.713		
16,400.00	7,806.80	17,324.24	7,806.88	174.41	184.18	-90.00	-9,716.37	3,700.56	3,357.98	3,008.78	349.20	9.616		
16,500.00	7,806.79	17,424.24	7,806.88	176.16	185.81	-90.00	-9,816.37	3,701.17	3,358.00	3,005.31	352.69	9.521		
16,600.00	7,806.79	17,524.24	7,806.88	177.92	187.45	-90.00	-9,916.36	3,701.78	3,358.01	3,001.84	356.17	9.428		
16,700.00	7,806.79	17,624.24	7,806.88	179.67	189.09	-90.00	-10,016.36	3,702.39	3,358.03	2,998.37	359.66	9.337		
16,800.00	7,806.79	17,724.24	7,806.88	181.42	190.73	-90.00	-10,116.36	3,703.00	3,358.04	2,994.89	363.15	9.247		
16,900.00	7,806.78	17,824.24	7,806.87	183.17	192.37	-90.00	-10,216.36	3,703.61	3,358.06	2,991.42	366.64	9.159		
17,000.00	7,806.78	17,924.24	7,806.87	184.92	194.02	-90.00	-10,316.36	3,704.21	3,358.07	2,987.94	370.13	9.073		
17,100.00	7,806.78	18,024.24	7,806.87	186.68	195.67	-90.00	-10,416.35	3,704.82	3,358.09	2,984.47	373.62	8.988		
17,200.00	7,806.78	18,124.24	7,806.87	188.43	197.32	-90.00	-10,516.35	3,705.43	3,358.10	2,980.99	377.11	8.905		
17,300.00	7,806.77	18,224.24	7,806.87	190.18	198.97	-90.00	-10,616.35	3,706.04	3,358.12	2,977.51	380.61	8.823		
17,400.00	7,806.77	18,324.24	7,806.87	191.94	200.62	-90.00	-10,716.35	3,706.65	3,358.13	2,974.03	384.10	8.743		
17,500.00	7,806.77	18,424.24	7,806.87	193.69	202.28	-90.00	-10,816.35	3,707.26	3,358.15	2,970.55	387.60	8.664		
17,600.00	7,806.77	18,524.24	7,806.86	195.45	203.94	-90.00	-10,916.34	3,707.87	3,358.16	2,967.07	391.09	8.587		
17,700.00	7,806.76	18,624.24	7,806.86	197.20	205.60	-90.00	-11,016.34	3,708.48	3,358.18	2,963.58	394.59	8.511		
17,800.00	7,806.76	18,724.24	7,806.86	198.96	207.27	-90.00	-11,116.34	3,709.09	3,358.19	2,960.10	398.09	8.436		
17,877.44	7,807.00	18,805.34	7,806.88	200.32	208.62	-90.00	-11,197.44	3,709.57	3,358.12	2,957.33	400.80	8.379 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.50	269.92	269.92					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.50	269.92	269.92	269.65	0.27	1,003.976		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.50	269.92	269.92	268.94	0.99	273.812		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.50	269.92	269.92	268.22	1.70	158.523 CC, ES		
400.00	400.00	391.60	391.59	1.21	1.17	90.40	-1.87	271.34	271.47	269.09	2.38	113.922		
500.00	500.00	483.02	482.90	1.57	1.49	90.62	-2.98	275.57	276.12	273.06	3.06	90.217		
600.00	600.00	574.07	573.65	1.93	1.82	90.98	-4.82	282.59	283.86	280.12	3.74	75.932		
700.00	700.00	664.56	663.58	2.29	2.17	91.44	-7.37	292.33	294.68	290.27	4.41	66.756		
800.00	800.00	754.33	752.43	2.64	2.52	91.99	-10.61	304.70	308.57	303.49	5.09	60.664		
900.00	900.00	843.21	839.96	3.00	2.90	92.60	-14.50	319.59	325.51	319.75	5.75	56.578		
1,000.00	1,000.00	931.04	925.95	3.36	3.30	93.23	-19.03	336.88	345.45	339.04	6.41	53.866		
1,100.00	1,100.00	1,017.68	1,010.20	3.72	3.72	93.88	-24.15	356.43	368.36	361.30	7.07	52.123		
1,200.00	1,200.00	1,103.00	1,092.53	4.08	4.17	94.51	-29.81	378.08	394.19	386.48	7.70	51.163		
1,300.00	1,300.00	1,186.89	1,172.79	4.44	4.64	95.12	-35.99	401.67	422.87	414.53	8.34	50.729		
1,400.00	1,400.00	1,269.23	1,250.85	4.79	5.15	95.70	-42.62	427.03	454.33	445.37	8.96	50.722		
1,500.00	1,499.98	1,350.20	1,326.84	5.14	5.68	-67.03	-49.70	454.07	487.87	478.32	9.55	51.083		
1,600.00	1,599.84	1,429.98	1,400.91	5.46	6.24	-66.30	-57.20	482.73	522.75	512.63	10.12	51.640		
1,700.00	1,699.45	1,508.52	1,472.99	5.80	6.82	-65.82	-65.09	512.89	558.89	548.19	10.70	52.249		
1,800.00	1,798.70	1,585.75	1,543.02	6.14	7.45	-65.53	-73.34	544.40	596.22	584.94	11.28	52.871		
1,900.00	1,897.47	1,661.65	1,610.95	6.49	8.10	-65.39	-81.91	577.12	634.72	622.85	11.87	53.481		
1,969.08	1,965.35	1,713.27	1,656.64	6.75	8.56	-65.36	-87.99	600.38	661.99	649.70	12.28	53.892		
2,000.00	1,995.66	1,736.15	1,676.75	6.86	8.77	-65.59	-90.76	610.94	674.43	661.96	12.47	54.071		
2,100.00	2,093.69	1,809.10	1,740.27	7.25	9.47	-66.27	-99.84	645.64	716.27	703.18	13.09	54.711		
2,200.00	2,191.72	1,880.42	1,801.46	7.65	10.20	-66.85	-109.11	681.06	760.43	746.72	13.72	55.443		
2,300.00	2,289.76	1,950.06	1,860.33	8.07	10.94	-67.33	-118.53	717.07	806.82	792.48	14.34	56.264		
2,400.00	2,387.79	2,018.02	1,916.87	8.49	11.70	-67.74	-128.08	753.52	855.33	840.37	14.96	57.171		
2,500.00	2,485.82	2,084.27	1,971.13	8.91	12.47	-68.07	-137.70	790.31	905.86	890.28	15.58	58.148		
2,600.00	2,583.86	2,157.23	2,029.96	9.35	13.36	-68.38	-148.63	832.05	958.18	941.89	16.29	58.811		
2,700.00	2,681.89	2,242.10	2,098.22	9.79	14.41	-68.71	-161.40	880.84	1,010.85	993.69	17.17	58.887		
2,800.00	2,779.92	2,326.97	2,166.48	10.24	15.47	-69.00	-174.17	929.63	1,063.55	1,045.50	18.05	58.919		
2,900.00	2,877.96	2,411.84	2,234.74	10.69	16.54	-69.26	-186.94	978.42	1,116.26	1,097.32	18.95	58.917		
3,000.00	2,975.99	2,503.29	2,303.00	11.14	17.70	-69.50	-199.71	1,027.21	1,168.99	1,149.10	19.89	58.773		
3,100.00	3,074.02	2,581.58	2,371.26	11.60	18.70	-69.72	-212.48	1,076.00	1,221.74	1,200.97	20.76	58.840		
3,200.00	3,172.06	2,666.45	2,439.52	12.06	19.78	-69.93	-225.25	1,124.79	1,274.49	1,252.81	21.68	58.777		
3,300.00	3,270.09	2,751.32	2,507.78	12.52	20.87	-70.11	-238.02	1,173.58	1,327.25	1,304.65	22.61	58.704		
3,400.00	3,368.12	2,836.20	2,576.04	12.98	21.96	-70.28	-250.79	1,222.37	1,380.03	1,356.49	23.54	58.622		
3,500.00	3,466.16	2,921.07	2,644.30	13.45	23.06	-70.44	-263.56	1,271.16	1,432.81	1,408.33	24.48	58.536		
3,600.00	3,564.19	3,005.94	2,712.56	13.92	24.15	-70.59	-276.32	1,319.95	1,485.60	1,460.18	25.42	58.445		
3,700.00	3,662.23	3,109.19	2,780.82	14.39	25.49	-70.73	-289.09	1,368.74	1,538.40	1,511.92	26.48	58.100		
3,800.00	3,760.26	3,175.68	2,849.09	14.86	26.36	-70.85	-301.86	1,417.53	1,591.20	1,563.89	27.31	58.258		
3,900.00	3,858.29	3,260.55	2,917.35	15.34	27.46	-70.97	-314.63	1,466.32	1,644.01	1,615.74	28.27	58.163		
4,000.00	3,956.33	3,345.42	2,985.61	15.81	28.56	-71.09	-327.40	1,515.11	1,696.82	1,667.60	29.22	58.068		
4,100.00	4,054.36	3,430.29	3,053.87	16.29	29.67	-71.19	-340.17	1,563.90	1,749.64	1,719.46	30.18	57.974		
4,200.00	4,152.39	3,515.16	3,122.13	16.77	30.77	-71.29	-352.94	1,612.70	1,802.46	1,771.32	31.14	57.881		
4,300.00	4,250.43	3,600.03	3,190.39	17.25	31.88	-71.39	-365.71	1,661.49	1,855.29	1,823.18	32.10	57.789		
4,400.00	4,348.46	3,684.90	3,258.65	17.73	32.99	-71.48	-378.48	1,710.28	1,908.11	1,875.04	33.07	57.699		
4,500.00	4,446.49	3,769.77	3,326.91	18.21	34.10	-71.56	-391.25	1,759.07	1,960.95	1,926.91	34.04	57.611		
4,600.00	4,544.53	3,854.64	3,395.17	18.69	35.21	-71.64	-404.02	1,807.86	2,013.78	1,978.77	35.01	57.524		
4,700.00	4,642.56	3,939.51	3,463.43	19.17	36.32	-71.71	-416.79	1,856.65	2,066.62	2,030.64	35.98	57.439		
4,800.00	4,740.59	4,024.38	3,531.69	19.65	37.43	-71.79	-429.56	1,905.44	2,119.46	2,082.50	36.95	57.356		
4,900.00	4,838.63	4,109.25	3,599.95	20.13	38.54	-71.85	-442.33	1,954.23	2,172.30	2,134.37	37.93	57.275		
5,000.00	4,936.66	4,205.87	3,668.21	20.62	39.81	-71.92	-455.10	2,003.02	2,225.14	2,186.16	38.98	57.085		

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-20-3N
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-20-3N	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	5,034.69	4,279.00	3,736.47	21.10	40.77	-71.98	-467.87	2,051.81	2,277.99	2,238.11	39.88	57.119		
5,200.00	5,132.73	4,363.87	3,804.73	21.59	41.88	-72.04	-480.64	2,100.60	2,330.84	2,289.98	40.86	57.043		
5,300.00	5,230.76	4,448.74	3,872.99	22.07	42.99	-72.10	-493.41	2,149.39	2,383.69	2,341.85	41.84	56.970		
5,400.00	5,328.79	4,533.61	3,941.25	22.56	44.11	-72.15	-506.18	2,198.18	2,436.54	2,393.71	42.82	56.898		
5,500.00	5,426.83	4,618.48	4,009.51	23.04	45.22	-72.20	-518.95	2,246.97	2,489.39	2,445.58	43.81	56.828		
5,600.00	5,524.86	4,703.35	4,077.77	23.53	46.34	-72.25	-531.72	2,295.76	2,542.24	2,497.45	44.79	56.760		
5,700.00	5,622.89	4,788.22	4,146.03	24.02	47.45	-72.30	-544.49	2,344.55	2,595.10	2,549.32	45.77	56.693		
5,800.00	5,720.93	4,873.09	4,214.29	24.50	48.57	-72.35	-557.26	2,393.34	2,647.96	2,601.20	46.76	56.628		
5,900.00	5,818.96	4,957.96	4,282.55	24.99	49.68	-72.39	-570.03	2,442.13	2,700.81	2,653.07	47.75	56.565		
6,000.00	5,916.99	5,042.83	4,350.81	25.48	50.80	-72.43	-582.80	2,490.93	2,753.67	2,704.94	48.74	56.503		
6,100.00	6,015.03	5,127.70	4,419.07	25.97	51.91	-72.47	-595.57	2,539.72	2,806.53	2,756.81	49.72	56.442		
6,200.00	6,113.06	5,212.57	4,487.33	26.45	53.03	-72.51	-608.34	2,588.51	2,859.39	2,808.68	50.71	56.383		
6,300.00	6,211.09	5,302.56	4,555.59	26.94	54.21	-72.55	-621.11	2,637.30	2,912.26	2,860.52	51.74	56.289		
6,400.00	6,309.13	5,382.31	4,623.85	27.43	55.26	-72.59	-633.88	2,686.09	2,965.12	2,912.42	52.70	56.269		
6,500.00	6,407.16	5,467.19	4,692.11	27.92	56.38	-72.62	-646.65	2,734.88	3,017.98	2,964.29	53.69	56.214		
6,600.00	6,505.19	5,552.06	4,760.37	28.41	57.50	-72.65	-659.42	2,783.67	3,070.85	3,016.17	54.68	56.160		
6,664.73	6,568.65	5,606.99	4,804.55	28.73	58.22	-72.68	-667.68	2,815.25	3,105.07	3,049.74	55.32	56.126		
6,700.00	6,603.27	5,636.90	4,828.60	28.90	58.61	-73.10	-672.18	2,832.44	3,123.77	3,068.10	55.67	56.112		
6,800.00	6,701.84	5,721.31	4,896.49	29.36	59.72	-74.29	-684.88	2,880.97	3,177.36	3,120.74	56.61	56.125		
6,900.00	6,800.94	5,805.09	4,963.88	29.78	60.83	-75.45	-697.49	2,929.13	3,231.75	3,174.25	57.49	56.212		
7,000.00	6,900.45	5,888.14	5,030.67	30.17	61.92	-76.56	-709.99	2,976.87	3,286.88	3,228.57	58.31	56.369		
7,100.00	7,000.24	5,970.35	5,096.80	30.53	63.00	-77.65	-722.36	3,024.14	3,342.72	3,283.66	59.06	56.595		
7,200.00	7,100.19	6,051.63	5,162.17	30.85	64.07	-78.70	-734.59	3,070.87	3,399.23	3,339.47	59.76	56.885		
7,233.81	7,134.00	6,078.89	5,184.09	30.95	64.43	84.70	-738.69	3,086.54	3,418.48	3,358.51	59.97	57.001		
7,300.00	7,200.19	6,132.12	5,226.91	31.12	65.13	84.92	-746.70	3,117.14	3,456.25	3,395.87	60.38	57.239		
7,333.81	7,234.00	6,159.32	5,248.78	31.21	65.49	85.03	-750.79	3,132.77	3,475.56	3,414.97	60.59	57.360		
7,350.00	7,250.18	6,172.37	5,259.28	31.26	65.66	-93.45	-752.75	3,140.28	3,484.82	3,424.12	60.70	57.412		
7,400.00	7,300.04	6,213.02	5,291.97	31.44	66.20	-89.86	-758.87	3,163.64	3,513.54	3,452.46	61.08	57.523		
7,450.00	7,349.39	6,253.93	5,324.88	31.66	66.74	-86.35	-765.02	3,187.16	3,542.26	3,480.72	61.54	57.564		
7,500.00	7,397.87	6,305.20	5,357.74	31.92	67.41	-82.98	-771.17	3,210.66	3,570.75	3,508.62	62.13	57.476		
7,550.00	7,445.09	6,335.30	5,390.32	32.22	67.81	-79.78	-777.27	3,233.94	3,598.81	3,536.16	62.65	57.444		
7,600.00	7,490.72	6,375.13	5,422.36	32.55	68.33	-76.79	-783.26	3,256.84	3,626.26	3,562.96	63.30	57.286		
7,650.00	7,534.38	6,414.00	5,453.61	32.92	68.85	-74.03	-789.11	3,279.18	3,652.93	3,588.92	64.01	57.065		
7,700.00	7,575.77	6,451.59	5,483.85	33.32	69.34	-71.49	-794.76	3,300.80	3,678.68	3,613.90	64.78	56.784		
7,750.00	7,614.55	6,487.64	5,512.84	33.75	69.82	-69.17	-800.19	3,321.52	3,703.37	3,637.76	65.61	56.447		
7,800.00	7,650.43	6,524.38	5,543.85	34.22	70.30	-92.10	-805.75	3,342.26	3,728.03	3,662.21	66.48	56.108		
7,850.00	7,683.15	6,561.52	5,575.29	34.71	70.79	-92.41	-811.30	3,362.99	3,752.69	3,686.87	67.39	55.766		
7,900.00	7,712.45	6,599.66	5,606.99	35.23	71.29	-92.72	-817.85	3,383.72	3,777.35	3,711.52	68.33	55.424		
7,950.00	7,738.11	6,637.81	5,638.85	35.78	71.80	-93.02	-824.39	3,404.45	3,802.00	3,736.17	69.30	55.082		
8,000.00	7,759.93	6,675.96	5,670.79	36.35	72.31	-93.30	-830.93	3,425.18	3,826.66	3,760.83	70.37	54.740		
8,050.00	7,777.75	6,714.11	5,702.94	36.93	72.82	-93.56	-837.47	3,445.91	3,851.31	3,785.48	71.44	54.398		
8,100.00	7,791.43	6,752.26	5,735.29	37.53	73.33	-93.77	-844.01	3,466.64	3,875.96	3,810.13	72.51	54.056		
8,150.00	7,800.87	6,790.41	5,767.74	38.14	73.84	-93.92	-850.55	3,487.37	3,900.61	3,834.78	73.58	53.714		
8,200.00	7,806.00	6,828.56	5,799.99	38.76	74.35	-94.01	-857.09	3,508.00	3,925.26	3,859.33	74.65	53.372		
8,233.89	7,807.00	6,866.71	5,832.24	39.18	74.86	-94.03	-863.63	3,528.73	3,949.91	3,883.98	75.72	53.030		
8,300.00	7,807.00	6,904.86	5,864.99	40.00	75.37	-94.03	-870.17	3,549.46	3,974.56	3,908.63	76.79	52.688		
8,400.00	7,807.00	6,943.01	5,897.24	41.29	75.88	-94.03	-876.71	3,569.99	3,999.11	3,933.16	77.86	52.346		
8,500.00	7,806.99	6,981.16	5,929.49	42.60	76.39	-94.03	-883.25	3,590.52	4,023.76	3,957.71	78.93	52.004		
8,600.00	7,806.99	7,019.31	5,961.74	43.95	76.90	-94.03	-889.79	3,611.05	4,048.31	3,982.26	80.00	51.662		
8,700.00	7,806.99	7,057.46	5,993.99	45.33	77.41	-94.03	-896.33	3,631.58	4,072.86	4,006.81	81.07	51.320		
8,800.00	7,806.99	7,095.61	6,026.24	46.74	77.92	-94.03	-902.87	3,652.11	4,097.41	4,031.36	82.14	50.978		
8,900.00	7,806.98	7,133.76	6,058.49	48.17	78.43	-94.03	-909.41	3,672.64	4,121.96	4,055.91	83.21	50.636		

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-20-3N
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-20-3N	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	7,806.98	10,300.16	8,067.98	49.62	91.99	-94.03	-2,314.43	4,000.57	3,711.17	3,607.70	103.47	35.868		
9,100.00	7,806.98	10,400.16	8,067.98	51.09	92.65	-94.03	-2,414.43	4,001.18	3,711.19	3,604.96	106.23	34.937		
9,200.00	7,806.98	10,500.16	8,067.98	52.59	93.34	-94.03	-2,514.43	4,001.79	3,711.20	3,602.17	109.03	34.039		
9,300.00	7,806.97	10,600.16	8,067.98	54.09	94.05	-94.03	-2,614.42	4,002.40	3,711.22	3,599.35	111.87	33.174		
9,400.00	7,806.97	10,700.16	8,067.97	55.62	94.78	-94.03	-2,714.42	4,003.01	3,711.23	3,596.48	114.75	32.342		
9,500.00	7,806.97	10,800.16	8,067.97	57.16	95.54	-94.03	-2,814.42	4,003.62	3,711.24	3,593.58	117.67	31.540		
9,600.00	7,806.97	10,900.16	8,067.97	58.71	96.32	-94.03	-2,914.42	4,004.22	3,711.26	3,590.64	120.62	30.769		
9,700.00	7,806.96	10,999.84	8,067.97	60.27	97.12	-94.03	-3,014.42	4,004.83	3,711.27	3,587.68	123.59	30.028		
9,800.00	7,806.96	11,100.16	8,067.96	61.84	97.95	-94.03	-3,114.41	4,005.44	3,711.29	3,584.68	126.61	29.314		
9,900.00	7,806.96	11,200.16	8,067.96	63.43	98.81	-94.03	-3,214.41	4,006.05	3,711.30	3,581.66	129.64	28.628		
10,000.00	7,806.96	11,300.16	8,067.96	65.02	99.68	-94.03	-3,314.41	4,006.66	3,711.31	3,578.61	132.70	27.968		
10,100.00	7,806.95	11,400.16	8,067.96	66.63	100.58	-94.03	-3,414.41	4,007.27	3,711.33	3,575.55	135.78	27.333		
10,200.00	7,806.95	11,500.16	8,067.96	68.24	101.50	-94.03	-3,514.41	4,007.87	3,711.34	3,572.46	138.89	26.722		
10,300.00	7,806.95	11,600.16	8,067.95	69.86	102.45	-94.03	-3,614.41	4,008.48	3,711.36	3,569.35	142.01	26.134		
10,400.00	7,806.95	11,699.84	8,067.95	71.49	103.41	-94.03	-3,714.40	4,009.09	3,711.37	3,566.22	145.15	25.569		
10,500.00	7,806.94	11,799.84	8,067.95	73.12	104.40	-94.03	-3,814.40	4,009.70	3,711.38	3,563.07	148.31	25.025		
10,600.00	7,806.94	11,900.16	8,067.95	74.76	105.41	-94.03	-3,914.40	4,010.31	3,711.40	3,559.91	151.49	24.499		
10,700.00	7,806.94	12,000.16	8,067.94	76.41	106.44	-94.03	-4,014.40	4,010.92	3,711.41	3,556.73	154.68	23.993		
10,800.00	7,806.94	12,100.16	8,067.94	78.06	107.49	-94.03	-4,114.40	4,011.53	3,711.43	3,553.53	157.89	23.506		
10,900.00	7,806.93	12,200.16	8,067.94	79.72	108.56	-94.03	-4,214.39	4,012.13	3,711.44	3,550.33	161.11	23.036		
11,000.00	7,806.93	12,300.16	8,067.94	81.38	109.66	-94.03	-4,314.39	4,012.74	3,711.45	3,547.11	164.35	22.583		
11,100.00	7,806.93	12,400.16	8,067.93	83.05	110.77	-94.03	-4,414.39	4,013.35	3,711.47	3,543.87	167.59	22.146		
11,200.00	7,806.93	12,500.16	8,067.93	84.72	111.89	-94.03	-4,514.39	4,013.96	3,711.48	3,540.63	170.85	21.723		
11,300.00	7,806.92	12,599.84	8,067.93	86.39	113.04	-94.03	-4,614.39	4,014.57	3,711.50	3,537.38	174.12	21.316		
11,400.00	7,806.92	12,700.16	8,067.93	88.07	114.21	-94.03	-4,714.39	4,015.18	3,711.51	3,534.11	177.40	20.922		
11,500.00	7,806.92	12,800.16	8,067.93	89.75	115.39	-94.03	-4,814.38	4,015.78	3,711.52	3,530.83	180.69	20.541		
11,600.00	7,806.92	12,900.16	8,067.92	91.44	116.59	-94.03	-4,914.38	4,016.39	3,711.54	3,527.55	183.99	20.173		
11,700.00	7,806.91	13,000.16	8,067.92	93.13	117.80	-94.03	-5,014.38	4,017.00	3,711.55	3,524.26	187.30	19.817		
11,800.00	7,806.91	13,099.84	8,067.92	94.82	119.03	-94.03	-5,114.38	4,017.61	3,711.57	3,520.96	190.61	19.473		
11,900.00	7,806.91	13,200.16	8,067.92	96.52	120.28	-94.03	-5,214.38	4,018.22	3,711.58	3,517.65	193.93	19.138		
12,000.00	7,806.91	13,300.16	8,067.91	98.21	121.54	-94.03	-5,314.37	4,018.83	3,711.59	3,514.33	197.26	18.815		
12,100.00	7,806.90	13,400.16	8,067.91	99.91	122.82	-94.03	-5,414.37	4,019.43	3,711.61	3,511.01	200.60	18.502		
12,200.00	7,806.90	13,500.16	8,067.91	101.62	124.11	-94.03	-5,514.37	4,020.04	3,711.62	3,507.68	203.95	18.199		
12,300.00	7,806.90	13,600.16	8,067.91	103.32	125.41	-94.03	-5,614.37	4,020.65	3,711.64	3,504.34	207.30	17.905		
12,400.00	7,806.90	13,700.16	8,067.90	105.03	126.73	-94.03	-5,714.37	4,021.26	3,711.65	3,501.00	210.65	17.620		
12,500.00	7,806.89	13,800.16	8,067.90	106.74	128.06	-94.03	-5,814.36	4,021.87	3,711.67	3,497.65	214.02	17.343		
12,600.00	7,806.89	13,900.16	8,067.90	108.45	129.40	-94.03	-5,914.36	4,022.48	3,711.68	3,494.29	217.39	17.074		
12,700.00	7,806.89	14,000.16	8,067.90	110.17	130.75	-94.03	-6,014.36	4,023.08	3,711.69	3,490.93	220.76	16.813		
12,800.00	7,806.89	14,100.16	8,067.90	111.88	132.12	-94.03	-6,114.36	4,023.69	3,711.71	3,487.57	224.14	16.560		
12,900.00	7,806.88	14,200.16	8,067.89	113.60	133.49	-94.03	-6,214.36	4,024.30	3,711.72	3,484.20	227.52	16.314		
13,000.00	7,806.88	14,300.16	8,067.89	115.32	134.88	-94.03	-6,314.36	4,024.91	3,711.74	3,480.83	230.91	16.074		
13,100.00	7,806.88	14,400.16	8,067.89	117.04	136.28	-94.03	-6,414.35	4,025.52	3,711.75	3,477.45	234.30	15.842		
13,200.00	7,806.88	14,500.16	8,067.89	118.76	137.69	-94.03	-6,514.35	4,026.13	3,711.76	3,474.06	237.70	15.615		
13,300.00	7,806.87	14,600.16	8,067.88	120.48	139.11	-94.03	-6,614.35	4,026.74	3,711.78	3,470.68	241.10	15.395		
13,400.00	7,806.87	14,700.16	8,067.88	122.21	140.53	-94.03	-6,714.35	4,027.34	3,711.79	3,467.29	244.51	15.181		
13,500.00	7,806.87	14,799.84	8,067.88	123.94	141.96	-94.03	-6,814.35	4,027.95	3,711.81	3,463.90	247.91	14.972		
13,600.00	7,806.87	14,900.16	8,067.88	125.66	143.41	-94.03	-6,914.34	4,028.56	3,711.82	3,460.49	251.33	14.769		
13,700.00	7,806.86	15,000.16	8,067.87	127.39	144.87	-94.03	-7,014.34	4,029.17	3,711.83	3,457.09	254.74	14.571		
13,800.00	7,806.86	15,100.16	8,067.87	129.12	146.33	-94.03	-7,114.34	4,029.78	3,711.85	3,453.69	258.16	14.378		
13,900.00	7,806.86	15,200.16	8,067.87	130.85	147.80	-94.03	-7,214.34	4,030.39	3,711.86	3,450.28	261.58	14.190		
14,000.00	7,806.86	15,300.16	8,067.87	132.59	149.28	-94.03	-7,314.34	4,030.99	3,711.88	3,446.87	265.01	14.007		
14,100.00	7,806.85	15,400.16	8,067.87	134.32	150.76	-94.03	-7,414.34	4,031.60	3,711.89	3,443.45	268.44	13.828		

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-20-3N
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-20-3N	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	7,806.85	15,500.16	8,067.86	136.06	152.25	-94.03	-7,514.33	4,032.21	3,711.90	3,440.04	271.87	13.653		
14,300.00	7,806.85	15,600.16	8,067.86	137.79	153.75	-94.03	-7,614.33	4,032.82	3,711.92	3,436.62	275.30	13.483		
14,400.00	7,806.85	15,700.16	8,067.86	139.53	155.26	-94.03	-7,714.33	4,033.43	3,711.93	3,433.19	278.74	13.317		
14,500.00	7,806.84	15,800.16	8,067.86	141.27	156.77	-94.03	-7,814.33	4,034.04	3,711.95	3,429.77	282.18	13.155		
14,600.00	7,806.84	15,900.16	8,067.85	143.00	158.29	-94.03	-7,914.33	4,034.64	3,711.96	3,426.34	285.62	12.996		
14,700.00	7,806.84	16,000.16	8,067.85	144.74	159.81	-94.03	-8,014.32	4,035.25	3,711.97	3,422.91	289.06	12.841		
14,800.00	7,806.84	16,100.16	8,067.85	146.48	161.34	-94.03	-8,114.32	4,035.86	3,711.99	3,419.48	292.51	12.690		
14,900.00	7,806.83	16,200.17	8,067.85	148.22	162.88	-94.03	-8,214.32	4,036.47	3,712.00	3,416.04	295.96	12.542		
15,000.00	7,806.83	16,300.17	8,067.84	149.97	164.42	-94.03	-8,314.32	4,037.08	3,712.02	3,412.61	299.41	12.398		
15,100.00	7,806.83	16,400.17	8,067.84	151.71	165.97	-94.03	-8,414.32	4,037.69	3,712.03	3,409.17	302.86	12.257		
15,200.00	7,806.83	16,500.17	8,067.84	153.45	167.52	-94.03	-8,514.31	4,038.30	3,712.04	3,405.73	306.31	12.118		
15,300.00	7,806.82	16,600.17	8,067.84	155.19	169.08	-94.03	-8,614.31	4,038.90	3,712.06	3,402.29	309.77	11.983		
15,400.00	7,806.82	16,700.17	8,067.84	156.94	170.64	-94.03	-8,714.31	4,039.51	3,712.07	3,398.84	313.23	11.851		
15,500.00	7,806.82	16,800.17	8,067.83	158.68	172.21	-94.03	-8,814.31	4,040.12	3,712.09	3,395.40	316.69	11.722		
15,600.00	7,806.82	16,900.17	8,067.83	160.43	173.78	-94.03	-8,914.31	4,040.73	3,712.10	3,391.95	320.15	11.595		
15,700.00	7,806.81	17,000.17	8,067.83	162.18	175.35	-94.03	-9,014.31	4,041.34	3,712.12	3,388.50	323.61	11.471		
15,800.00	7,806.81	17,100.17	8,067.83	163.92	176.93	-94.03	-9,114.30	4,041.95	3,712.13	3,385.05	327.08	11.349		
15,900.00	7,806.81	17,199.84	8,067.82	165.67	178.51	-94.03	-9,214.30	4,042.55	3,712.14	3,381.60	330.54	11.231		
16,000.00	7,806.81	17,300.17	8,067.82	167.42	180.11	-94.03	-9,314.30	4,043.16	3,712.16	3,378.14	334.01	11.114		
16,100.00	7,806.80	17,400.17	8,067.82	169.17	181.70	-94.03	-9,414.30	4,043.77	3,712.17	3,374.69	337.48	11.000		
16,200.00	7,806.80	17,500.17	8,067.82	170.91	183.29	-94.03	-9,514.30	4,044.38	3,712.19	3,371.23	340.95	10.888		
16,300.00	7,806.80	17,600.17	8,067.82	172.66	184.89	-94.03	-9,614.29	4,044.99	3,712.20	3,367.77	344.43	10.778		
16,400.00	7,806.80	17,700.17	8,067.81	174.41	186.50	-94.03	-9,714.29	4,045.60	3,712.21	3,364.31	347.90	10.670		
16,500.00	7,806.79	17,800.17	8,067.81	176.16	188.10	-94.03	-9,814.29	4,046.20	3,712.23	3,360.85	351.37	10.565		
16,600.00	7,806.79	17,899.84	8,067.81	177.92	189.71	-94.03	-9,914.29	4,046.81	3,712.24	3,357.40	354.85	10.462		
16,700.00	7,806.79	17,999.84	8,067.81	179.67	191.32	-94.03	-10,014.29	4,047.42	3,712.26	3,353.93	358.32	10.360		
16,800.00	7,806.79	18,099.84	8,067.80	181.42	192.94	-94.03	-10,114.29	4,048.03	3,712.27	3,350.47	361.80	10.261		
16,900.00	7,806.78	18,199.84	8,067.80	183.17	194.56	-94.03	-10,214.28	4,048.64	3,712.28	3,347.00	365.28	10.163		
17,000.00	7,806.78	18,300.17	8,067.80	184.92	196.19	-94.03	-10,314.28	4,049.25	3,712.30	3,343.53	368.77	10.067		
17,100.00	7,806.78	18,400.17	8,067.80	186.68	197.81	-94.03	-10,414.28	4,049.85	3,712.31	3,340.06	372.25	9.973		
17,200.00	7,806.78	18,500.17	8,067.79	188.43	199.44	-94.03	-10,514.28	4,050.46	3,712.33	3,336.59	375.73	9.880		
17,300.00	7,806.77	18,600.17	8,067.79	190.18	201.07	-94.03	-10,614.28	4,051.07	3,712.34	3,333.12	379.22	9.789		
17,400.00	7,806.77	18,700.17	8,067.79	191.94	202.71	-94.03	-10,714.27	4,051.68	3,712.35	3,329.65	382.70	9.700		
17,500.00	7,806.77	18,800.17	8,067.79	193.69	204.34	-94.03	-10,814.27	4,052.29	3,712.37	3,326.18	386.19	9.613		
17,600.00	7,806.77	18,900.17	8,067.79	195.45	205.98	-94.03	-10,914.27	4,052.90	3,712.38	3,322.71	389.68	9.527		
17,700.00	7,806.76	19,000.17	8,067.78	197.20	207.62	-94.03	-11,014.27	4,053.51	3,712.40	3,319.23	393.16	9.442		
17,800.00	7,806.76	19,100.17	8,067.78	198.96	209.27	-94.03	-11,114.27	4,054.11	3,712.41	3,315.76	396.65	9.359		
17,875.88	7,806.76	19,175.71	8,067.78	200.29	210.51	-94.03	-11,190.14	4,054.58	3,712.42	3,313.13	399.29	9.297		
17,877.44	7,807.00	19,177.28	8,067.78	200.32	210.54	-94.03	-11,191.71	4,054.58	3,712.33	3,312.98	399.35	9.296 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.60	287.91	287.92					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.60	287.91	287.92	287.65	0.27	1,070.910		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.60	287.91	287.92	286.93	0.99	292.067	CC, ES	
300.00	300.00	291.05	291.03	0.85	0.81	90.38	-1.93	289.32	289.47	287.80	1.67	173.674		
400.00	400.00	381.92	381.79	1.21	1.14	90.57	-2.93	293.53	294.11	291.76	2.35	125.282		
500.00	500.00	472.42	472.01	1.57	1.47	90.87	-4.58	300.51	301.84	298.82	3.03	99.658		
600.00	600.00	562.38	561.41	1.93	1.81	91.27	-6.87	310.19	312.65	308.95	3.71	84.307		
700.00	700.00	651.62	649.75	2.29	2.18	91.74	-9.78	322.49	326.52	322.14	4.38	74.468		
800.00	800.00	739.99	736.80	2.64	2.56	92.25	-13.28	337.29	343.42	338.36	5.06	67.925		
900.00	900.00	827.34	822.34	3.00	2.96	92.80	-17.35	354.49	363.31	357.59	5.72	63.510		
1,000.00	1,000.00	913.51	906.16	3.36	3.39	93.36	-21.94	373.94	386.16	379.78	6.38	60.546		
1,100.00	1,100.00	998.39	988.09	3.72	3.84	93.91	-27.04	395.48	411.90	404.87	7.02	58.638		
1,200.00	1,200.00	1,081.85	1,067.99	4.08	4.32	94.45	-32.59	418.96	440.47	432.81	7.66	57.517		
1,300.00	1,300.00	1,163.80	1,145.72	4.44	4.83	94.96	-38.56	444.20	471.81	463.52	8.29	56.908		
1,400.00	1,400.00	1,244.13	1,221.17	4.79	5.36	95.45	-44.91	471.04	505.85	496.94	8.91	56.784		
1,500.00	1,499.98	1,323.05	1,294.50	5.14	5.92	-67.30	-51.61	499.40	541.88	532.38	9.50	57.056		
1,600.00	1,599.84	1,400.74	1,365.89	5.46	6.51	-66.56	-58.67	529.23	579.19	569.12	10.07	57.542		
1,700.00	1,699.45	1,477.15	1,435.26	5.80	7.13	-66.03	-66.04	560.40	617.69	607.05	10.64	58.071		
1,800.00	1,798.70	1,552.23	1,502.57	6.14	7.78	-65.68	-73.69	592.76	657.33	646.11	11.21	58.620		
1,900.00	1,897.47	1,625.95	1,567.79	6.49	8.45	-65.46	-81.60	626.20	698.07	686.27	11.80	59.163		
1,969.08	1,965.35	1,676.05	1,611.61	6.75	8.93	-65.37	-87.19	649.86	726.85	714.64	12.21	59.520		
2,000.00	1,995.66	1,700.00	1,632.39	6.86	9.16	-65.61	-89.93	661.42	739.96	727.54	12.42	59.600		
2,100.00	2,093.69	1,768.99	1,691.72	7.25	9.87	-66.25	-98.03	695.69	783.89	770.87	13.01	60.238		
2,200.00	2,191.72	1,838.08	1,750.27	7.65	10.61	-66.82	-106.47	731.39	830.06	816.43	13.63	60.900		
2,300.00	2,289.76	1,905.52	1,806.54	8.07	11.36	-67.30	-115.02	767.55	878.38	864.14	14.25	61.662		
2,400.00	2,387.79	1,971.27	1,860.55	8.49	12.13	-67.71	-123.65	804.04	928.75	913.89	14.86	62.497		
2,500.00	2,485.82	2,035.34	1,912.35	8.91	12.92	-68.06	-132.33	840.75	981.06	965.59	15.47	63.413		
2,600.00	2,583.86	2,100.00	1,963.74	9.35	13.73	-68.36	-141.36	878.92	1,035.24	1,019.14	16.10	64.300		
2,700.00	2,681.89	2,158.46	2,009.44	9.79	14.51	-68.59	-149.75	914.40	1,091.19	1,074.52	16.67	65.449		
2,800.00	2,779.92	2,217.53	2,054.84	10.24	15.32	-68.80	-158.44	951.17	1,148.85	1,131.59	17.26	66.562		
2,900.00	2,877.96	2,274.96	2,098.23	10.69	16.12	-68.97	-167.10	987.77	1,208.12	1,190.28	17.84	67.726		
3,000.00	2,975.99	2,350.67	2,154.78	11.14	17.22	-69.16	-178.68	1,036.77	1,268.42	1,249.76	18.66	67.979		
3,100.00	3,074.02	2,430.34	2,214.28	11.60	18.38	-69.35	-190.88	1,088.34	1,328.76	1,309.22	19.54	68.005		
3,200.00	3,172.06	2,510.02	2,273.77	12.06	19.54	-69.52	-203.08	1,139.91	1,389.10	1,368.67	20.43	68.004		
3,300.00	3,270.09	2,589.70	2,333.27	12.52	20.72	-69.67	-215.27	1,191.49	1,449.45	1,428.13	21.32	67.979		
3,400.00	3,368.12	2,669.38	2,392.77	12.98	21.90	-69.81	-227.47	1,243.06	1,509.81	1,487.58	22.22	67.936		
3,500.00	3,466.16	2,749.05	2,452.26	13.45	23.08	-69.95	-239.66	1,294.63	1,570.17	1,547.04	23.13	67.881		
3,600.00	3,564.19	2,828.73	2,511.76	13.92	24.26	-70.07	-251.86	1,346.21	1,630.54	1,606.49	24.04	67.816		
3,700.00	3,662.23	2,908.41	2,571.26	14.39	25.45	-70.18	-264.05	1,397.78	1,690.91	1,665.95	24.96	67.745		
3,800.00	3,760.26	2,988.08	2,630.76	14.86	26.64	-70.29	-276.25	1,449.35	1,751.28	1,725.40	25.88	67.667		
3,900.00	3,858.29	3,067.76	2,690.25	15.34	27.84	-70.39	-288.45	1,500.93	1,811.66	1,784.86	26.81	67.585		
4,000.00	3,956.33	3,147.44	2,749.75	15.81	29.03	-70.48	-300.64	1,552.50	1,872.04	1,844.31	27.73	67.500		
4,100.00	4,054.36	3,227.11	2,809.25	16.29	30.23	-70.57	-312.84	1,604.07	1,932.43	1,903.76	28.67	67.414		
4,200.00	4,152.39	3,306.79	2,868.74	16.77	31.43	-70.65	-325.03	1,655.65	1,992.82	1,963.22	29.60	67.326		
4,300.00	4,250.43	3,386.47	2,928.24	17.25	32.63	-70.72	-337.23	1,707.22	2,053.21	2,022.67	30.54	67.239		
4,400.00	4,348.46	3,466.15	2,987.74	17.73	33.83	-70.80	-349.42	1,758.79	2,113.60	2,082.12	31.48	67.151		
4,500.00	4,446.49	3,545.82	3,047.23	18.21	35.04	-70.86	-361.62	1,810.37	2,173.99	2,141.57	32.42	67.063		
4,600.00	4,544.53	3,625.50	3,106.73	18.69	36.24	-70.93	-373.81	1,861.94	2,234.39	2,201.03	33.36	66.977		
4,700.00	4,642.56	3,705.18	3,166.23	19.17	37.45	-70.99	-386.01	1,913.51	2,294.79	2,260.48	34.31	66.891		
4,800.00	4,740.59	3,784.85	3,225.72	19.65	38.65	-71.05	-398.21	1,965.09	2,355.18	2,319.93	35.25	66.807		
4,900.00	4,838.63	3,864.53	3,285.22	20.13	39.86	-71.10	-410.40	2,016.66	2,415.59	2,379.38	36.20	66.723		
5,000.00	4,936.66	3,944.21	3,344.72	20.62	41.07	-71.15	-422.60	2,068.23	2,475.99	2,438.83	37.15	66.641		

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-20-3N
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-20-3N	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	5,034.69	4,023.88	3,404.22	21.10	42.27	-71.20	-434.79	2,119.81	2,536.39	2,498.28	38.11	66.561		
5,200.00	5,132.73	4,103.56	3,463.71	21.59	43.48	-71.25	-446.99	2,171.38	2,596.79	2,557.73	39.06	66.481		
5,300.00	5,230.76	4,183.24	3,523.21	22.07	44.69	-71.30	-459.18	2,222.95	2,657.20	2,617.18	40.02	66.404		
5,400.00	5,328.79	4,262.92	3,582.71	22.56	45.90	-71.34	-471.38	2,274.53	2,717.61	2,676.63	40.97	66.327		
5,500.00	5,426.83	4,342.59	3,642.20	23.04	47.11	-71.38	-483.58	2,326.10	2,778.01	2,736.08	41.93	66.253		
5,600.00	5,524.86	4,422.27	3,701.70	23.53	48.32	-71.42	-495.77	2,377.67	2,838.42	2,795.53	42.89	66.179		
5,700.00	5,622.89	4,501.95	3,761.20	24.02	49.53	-71.46	-507.97	2,429.25	2,898.83	2,854.98	43.85	66.108		
5,800.00	5,720.93	4,581.62	3,820.69	24.50	50.74	-71.50	-520.16	2,480.82	2,959.24	2,914.43	44.81	66.037		
5,900.00	5,818.96	4,661.30	3,880.19	24.99	51.95	-71.53	-532.36	2,532.39	3,019.65	2,973.88	45.77	65.968		
6,000.00	5,916.99	4,740.98	3,939.69	25.48	53.16	-71.56	-544.55	2,583.97	3,080.06	3,033.33	46.74	65.900		
6,100.00	6,015.03	4,820.66	3,999.19	25.97	54.38	-71.60	-556.75	2,635.54	3,140.48	3,092.77	47.70	65.834		
6,200.00	6,113.06	4,900.33	4,058.68	26.45	55.59	-71.63	-568.94	2,687.11	3,200.89	3,152.22	48.67	65.769		
6,300.00	6,211.09	4,980.01	4,118.18	26.94	56.80	-71.66	-581.14	2,738.69	3,261.30	3,211.67	49.64	65.705		
6,400.00	6,309.13	5,059.69	4,177.68	27.43	58.01	-71.69	-593.34	2,790.26	3,321.72	3,271.11	50.60	65.643		
6,500.00	6,407.16	5,139.36	4,237.17	27.92	59.23	-71.71	-605.53	2,841.83	3,382.13	3,330.56	51.57	65.581		
6,600.00	6,505.19	5,219.04	4,296.67	28.41	60.44	-71.74	-617.73	2,893.41	3,442.54	3,390.00	52.54	65.521		
6,664.73	6,568.65	5,270.62	4,335.18	28.73	61.22	-71.76	-625.62	2,926.79	3,481.65	3,428.48	53.17	65.483		
6,700.00	6,603.27	5,301.32	4,356.14	28.90	61.69	-72.27	-629.92	2,944.96	3,503.01	3,449.49	53.53	65.445		
6,800.00	6,701.84	5,377.80	4,415.22	29.36	62.86	-73.72	-642.03	2,996.17	3,564.14	3,509.71	54.43	65.483		
6,900.00	6,800.94	5,456.18	4,473.75	29.78	64.05	-75.14	-654.02	3,046.90	3,626.04	3,570.75	55.29	65.582		
7,000.00	6,900.45	5,533.73	4,531.65	30.17	65.23	-76.54	-665.89	3,097.10	3,688.66	3,632.57	56.09	65.761		
7,100.00	7,000.24	5,610.34	4,588.87	30.53	66.40	-77.91	-677.62	3,146.69	3,751.93	3,695.10	56.83	66.017		
7,200.00	7,100.19	5,685.94	4,645.32	30.85	67.55	-79.26	-689.19	3,195.62	3,815.81	3,758.30	57.51	66.346		
7,233.81	7,134.00	5,711.25	4,664.22	30.95	67.94	84.04	-693.07	3,212.01	3,837.54	3,779.82	57.73	66.477		
7,300.00	7,200.19	5,760.68	4,701.13	31.12	68.69	84.25	-700.63	3,244.00	3,880.16	3,822.02	58.13	66.747		
7,333.81	7,234.00	5,785.93	4,719.98	31.21	69.07	84.36	-704.50	3,260.34	3,901.94	3,843.60	58.34	66.882		
7,350.00	7,250.18	5,801.95	4,729.03	31.26	69.32	-93.89	-706.35	3,268.19	3,912.38	3,853.91	58.47	66.911		
7,400.00	7,300.04	5,835.84	4,757.25	31.44	69.83	-89.56	-712.14	3,292.65	3,944.76	3,885.94	58.82	67.065		
7,450.00	7,349.39	5,873.94	4,785.70	31.66	70.42	-85.31	-717.97	3,317.31	3,977.12	3,917.86	59.26	67.110		
7,500.00	7,397.87	5,912.05	4,814.16	31.92	71.00	-81.23	-723.80	3,341.98	4,009.21	3,949.44	59.77	67.076		
7,550.00	7,445.09	5,949.88	4,842.41	32.22	71.57	-77.38	-729.59	3,366.46	4,040.80	3,980.46	60.34	66.966		
7,600.00	7,490.72	5,987.15	4,870.24	32.55	72.14	-73.79	-735.30	3,390.59	4,071.67	4,010.70	60.97	66.781		
7,650.00	7,534.38	6,023.58	4,897.44	32.92	72.70	-70.49	-740.87	3,414.17	4,101.63	4,039.97	61.66	66.524		
7,700.00	7,575.77	9,016.08	7,574.40	33.32	95.77	-89.97	-1,087.78	4,407.96	4,116.65	4,041.22	75.43	54.578		
7,750.00	7,614.55	9,065.89	7,613.13	33.75	95.90	-89.98	-1,119.07	4,408.15	4,116.65	4,040.48	76.18	54.040		
7,800.00	7,650.43	9,115.71	7,649.00	34.22	96.04	-89.98	-1,153.61	4,408.36	4,116.66	4,039.67	76.99	53.473		
7,850.00	7,683.15	9,165.54	7,681.75	34.71	96.18	-89.98	-1,191.15	4,408.58	4,116.66	4,038.81	77.85	52.879		
7,900.00	7,712.45	9,215.40	7,711.13	35.23	96.34	-89.98	-1,231.41	4,408.83	4,116.67	4,037.90	78.77	52.264		
7,950.00	7,738.11	9,265.27	7,736.90	35.78	96.51	-89.98	-1,274.09	4,409.09	4,116.67	4,036.94	79.73	51.633		
8,000.00	7,759.93	9,315.16	7,758.88	36.35	96.68	-89.99	-1,318.86	4,409.36	4,116.68	4,035.94	80.74	50.990		
8,050.00	7,777.75	9,365.07	7,776.88	36.93	96.86	-89.99	-1,365.39	4,409.64	4,116.69	4,034.91	81.78	50.340		
8,100.00	7,791.43	9,415.00	7,790.78	37.53	97.05	-89.99	-1,413.33	4,409.93	4,116.69	4,033.84	82.85	49.689		
8,150.00	7,800.87	9,464.95	7,800.45	38.14	97.25	-90.00	-1,462.32	4,410.23	4,116.70	4,032.75	83.94	49.041		
8,200.00	7,806.00	9,514.92	7,805.82	38.76	97.45	-90.00	-1,511.99	4,410.53	4,116.70	4,031.65	85.05	48.401		
8,233.89	7,807.00	9,554.54	7,807.00	39.18	97.61	-90.00	-1,545.85	4,410.74	4,116.71	4,030.84	85.87	47.943		
8,300.00	7,807.00	9,614.91	7,807.00	40.00	97.87	-90.00	-1,611.95	4,411.14	4,116.72	4,029.41	87.31	47.151		
8,400.00	7,807.00	9,714.91	7,807.00	41.29	98.30	-90.00	-1,711.94	4,411.75	4,116.73	4,027.09	89.64	45.923		
8,500.00	7,806.99	9,814.91	7,807.00	42.60	98.76	-90.00	-1,811.94	4,412.36	4,116.74	4,024.69	92.05	44.721		
8,600.00	7,806.99	9,914.90	7,806.99	43.95	99.23	-90.00	-1,911.93	4,412.96	4,116.76	4,022.22	94.54	43.547		
8,700.00	7,806.99	10,014.90	7,806.99	45.33	99.73	-90.00	-2,011.93	4,413.57	4,116.77	4,019.69	97.08	42.404		
8,800.00	7,806.99	10,114.90	7,806.99	46.74	100.25	-90.00	-2,111.92	4,414.18	4,116.78	4,017.09	99.69	41.296		
8,900.00	7,806.98	10,214.89	7,806.99	48.17	100.79	-90.00	-2,211.92	4,414.79	4,116.80	4,014.45	102.35	40.222		

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-20-3N
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-20-3N	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	7,806.98	10,314.89	7,806.99	49.62	101.35	-90.00	-2,311.91	4,415.39	4,116.81	4,011.75	105.07	39.183		
9,100.00	7,806.98	10,414.89	7,806.99	51.09	101.93	-90.00	-2,411.91	4,416.00	4,116.83	4,009.00	107.83	38.180		
9,200.00	7,806.98	10,514.88	7,806.98	52.59	102.53	-90.00	-2,511.90	4,416.61	4,116.84	4,006.21	110.63	37.212		
9,300.00	7,806.97	10,614.88	7,806.98	54.09	103.15	-90.00	-2,611.90	4,417.22	4,116.85	4,003.37	113.48	36.278		
9,400.00	7,806.97	10,714.87	7,806.98	55.62	103.80	-90.00	-2,711.89	4,417.83	4,116.87	4,000.50	116.36	35.379		
9,500.00	7,806.97	10,814.87	7,806.98	57.16	104.47	-90.00	-2,811.89	4,418.44	4,116.88	3,997.60	119.28	34.514		
9,600.00	7,806.97	10,914.87	7,806.98	58.71	105.15	-90.00	-2,911.88	4,419.04	4,116.90	3,994.66	122.23	33.680		
9,700.00	7,806.96	11,014.86	7,806.98	60.27	105.86	-90.00	-3,011.87	4,419.65	4,116.91	3,991.69	125.22	32.878		
9,800.00	7,806.96	11,114.86	7,806.98	61.84	106.60	-90.00	-3,111.87	4,420.26	4,116.92	3,988.70	128.23	32.106		
9,900.00	7,806.96	11,214.86	7,806.98	63.43	107.35	-90.00	-3,211.86	4,420.87	4,116.94	3,985.67	131.26	31.364		
10,000.00	7,806.96	11,314.85	7,806.97	65.02	108.12	-90.00	-3,311.86	4,421.48	4,116.95	3,982.63	134.33	30.649		
10,100.00	7,806.95	11,414.85	7,806.97	66.63	108.92	-90.00	-3,411.85	4,422.09	4,116.97	3,979.56	137.41	29.961		
10,200.00	7,806.95	11,514.85	7,806.97	68.24	109.74	-90.00	-3,511.85	4,422.70	4,116.98	3,976.47	140.52	29.299		
10,300.00	7,806.95	11,614.84	7,806.97	69.86	110.58	-90.00	-3,611.84	4,423.31	4,117.00	3,973.35	143.64	28.661		
10,400.00	7,806.95	11,714.84	7,806.97	71.49	111.44	-90.00	-3,711.84	4,423.92	4,117.01	3,970.22	146.79	28.047		
10,500.00	7,806.94	11,814.84	7,806.97	73.12	112.32	-90.00	-3,811.83	4,424.52	4,117.03	3,967.08	149.95	27.456		
10,600.00	7,806.94	11,914.83	7,806.97	74.76	113.22	-90.00	-3,911.83	4,425.13	4,117.04	3,963.91	153.13	26.886		
10,700.00	7,806.94	12,014.83	7,806.97	76.41	114.14	-90.00	-4,011.82	4,425.74	4,117.06	3,960.73	156.33	26.336		
10,800.00	7,806.94	12,114.83	7,806.97	78.06	115.08	-90.00	-4,111.82	4,426.35	4,117.07	3,957.54	159.54	25.807		
10,900.00	7,806.93	12,214.82	7,806.97	79.72	116.05	-90.00	-4,211.81	4,426.96	4,117.09	3,954.33	162.76	25.296		
11,000.00	7,806.93	12,314.82	7,806.97	81.38	117.03	-90.00	-4,311.80	4,427.57	4,117.10	3,951.11	166.00	24.802		
11,100.00	7,806.93	12,414.81	7,806.96	83.05	118.03	-90.00	-4,411.80	4,428.18	4,117.12	3,947.87	169.24	24.326		
11,200.00	7,806.93	12,514.81	7,806.96	84.72	119.05	-90.00	-4,511.79	4,428.79	4,117.13	3,944.63	172.51	23.867		
11,300.00	7,806.92	12,614.81	7,806.96	86.39	120.09	-90.00	-4,611.79	4,429.40	4,117.15	3,941.37	175.78	23.423		
11,400.00	7,806.92	12,714.80	7,806.96	88.07	121.15	-90.00	-4,711.78	4,430.01	4,117.17	3,938.11	179.06	22.993		
11,500.00	7,806.92	12,814.80	7,806.96	89.75	122.22	-90.00	-4,811.78	4,430.62	4,117.18	3,934.83	182.35	22.578		
11,600.00	7,806.92	12,914.80	7,806.96	91.44	123.32	-90.00	-4,911.77	4,431.23	4,117.20	3,931.55	185.65	22.177		
11,700.00	7,806.91	13,014.79	7,806.96	93.13	124.43	-90.00	-5,011.77	4,431.84	4,117.21	3,928.25	188.96	21.789		
11,800.00	7,806.91	13,114.79	7,806.96	94.82	125.56	-90.00	-5,111.76	4,432.45	4,117.23	3,924.95	192.28	21.413		
11,900.00	7,806.91	13,214.79	7,806.96	96.52	126.70	-90.00	-5,211.76	4,433.06	4,117.25	3,921.64	195.61	21.049		
12,000.00	7,806.91	13,314.78	7,806.96	98.21	127.86	-90.00	-5,311.75	4,433.67	4,117.26	3,918.32	198.94	20.696		
12,100.00	7,806.90	13,414.78	7,806.96	99.91	129.04	-90.00	-5,411.75	4,434.28	4,117.28	3,915.00	202.28	20.354		
12,200.00	7,806.90	13,514.78	7,806.96	101.62	130.23	-90.00	-5,511.74	4,434.90	4,117.30	3,911.67	205.63	20.023		
12,300.00	7,806.90	13,614.77	7,806.96	103.32	131.44	-90.00	-5,611.73	4,435.51	4,117.31	3,908.33	208.98	19.702		
12,400.00	7,806.90	13,714.77	7,806.96	105.03	132.66	-90.00	-5,711.73	4,436.12	4,117.33	3,904.99	212.34	19.390		
12,500.00	7,806.89	13,814.77	7,806.96	106.74	133.90	-90.00	-5,811.72	4,436.73	4,117.35	3,901.64	215.71	19.088		
12,600.00	7,806.89	13,914.76	7,806.96	108.45	135.15	-90.00	-5,911.72	4,437.34	4,117.36	3,898.28	219.08	18.794		
12,700.00	7,806.89	14,014.76	7,806.96	110.17	136.42	-90.00	-6,011.71	4,437.95	4,117.38	3,894.92	222.46	18.509		
12,800.00	7,806.89	14,114.75	7,806.96	111.88	137.69	-90.00	-6,111.71	4,438.56	4,117.40	3,891.56	225.84	18.231		
12,900.00	7,806.88	14,214.75	7,806.96	113.60	138.98	-90.00	-6,211.70	4,439.17	4,117.41	3,888.19	229.23	17.962		
13,000.00	7,806.88	14,314.75	7,806.96	115.32	140.29	-90.00	-6,311.70	4,439.78	4,117.43	3,884.81	232.62	17.700		
13,100.00	7,806.88	14,414.74	7,806.96	117.04	141.60	-90.00	-6,411.69	4,440.40	4,117.45	3,881.43	236.02	17.446		
13,200.00	7,806.88	14,514.74	7,806.96	118.76	142.93	-90.00	-6,511.69	4,441.01	4,117.46	3,878.05	239.42	17.198		
13,300.00	7,806.87	14,614.74	7,806.96	120.48	144.27	-90.00	-6,611.68	4,441.62	4,117.48	3,874.66	242.82	16.957		
13,400.00	7,806.87	14,714.73	7,806.96	122.21	145.61	-90.00	-6,711.67	4,442.23	4,117.50	3,871.27	246.23	16.722		
13,500.00	7,806.87	14,814.73	7,806.96	123.94	146.97	-90.00	-6,811.67	4,442.84	4,117.52	3,867.87	249.64	16.494		
13,600.00	7,806.87	14,914.73	7,806.96	125.66	148.35	-90.00	-6,911.66	4,443.45	4,117.53	3,864.47	253.06	16.271		
13,700.00	7,806.86	15,014.72	7,806.96	127.39	149.73	-90.00	-7,011.66	4,444.07	4,117.55	3,861.07	256.48	16.054		
13,800.00	7,806.86	15,114.72	7,806.96	129.12	151.12	-90.00	-7,111.65	4,444.68	4,117.57	3,857.67	259.90	15.843		
13,900.00	7,806.86	15,214.72	7,806.96	130.85	152.52	-90.00	-7,211.65	4,445.29	4,117.59	3,854.26	263.33	15.637		
14,000.00	7,806.86	15,314.71	7,806.96	132.59	153.92	-90.00	-7,311.64	4,445.90	4,117.61	3,850.85	266.76	15.436		
14,100.00	7,806.85	15,414.71	7,806.96	134.32	155.34	-90.00	-7,411.64	4,446.52	4,117.62	3,847.43	270.19	15.240		

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-20-3N
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-20-3N	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	7,806.85	15,514.70	7,806.96	136.06	156.77	-90.00	-7,511.63	4,447.13	4,117.64	3,844.01	273.63	15.048		
14,300.00	7,806.85	15,614.70	7,806.96	137.79	158.20	-90.00	-7,611.63	4,447.74	4,117.66	3,840.59	277.07	14.862		
14,400.00	7,806.85	15,714.70	7,806.96	139.53	159.65	-90.00	-7,711.62	4,448.35	4,117.68	3,837.17	280.51	14.679		
14,500.00	7,806.84	15,814.69	7,806.96	141.27	161.10	-90.00	-7,811.62	4,448.97	4,117.70	3,833.74	283.95	14.501		
14,600.00	7,806.84	15,914.69	7,806.96	143.00	162.56	-90.00	-7,911.61	4,449.58	4,117.72	3,830.32	287.40	14.328		
14,700.00	7,806.84	16,014.69	7,806.96	144.74	164.02	-90.00	-8,011.60	4,450.19	4,117.73	3,826.89	290.85	14.158		
14,800.00	7,806.84	16,114.68	7,806.96	146.48	165.50	-90.00	-8,111.60	4,450.81	4,117.75	3,823.46	294.30	13.992		
14,900.00	7,806.83	16,214.68	7,806.96	148.22	166.98	-90.00	-8,211.59	4,451.42	4,117.77	3,820.02	297.75	13.830		
15,000.00	7,806.83	16,314.68	7,806.96	149.97	168.47	-90.00	-8,311.59	4,452.03	4,117.79	3,816.58	301.21	13.671		
15,100.00	7,806.83	16,414.67	7,806.97	151.71	169.96	-90.00	-8,411.58	4,452.64	4,117.81	3,813.15	304.66	13.516		
15,200.00	7,806.83	16,514.67	7,806.97	153.45	171.46	-90.00	-8,511.58	4,453.26	4,117.83	3,809.71	308.12	13.364		
15,300.00	7,806.82	16,614.67	7,806.97	155.19	172.97	-90.00	-8,611.57	4,453.87	4,117.85	3,806.26	311.58	13.216		
15,400.00	7,806.82	16,714.66	7,806.97	156.94	174.48	-90.00	-8,711.57	4,454.48	4,117.87	3,802.82	315.05	13.071		
15,500.00	7,806.82	16,814.66	7,806.97	158.68	176.00	-90.00	-8,811.56	4,455.10	4,117.89	3,799.37	318.51	12.928		
15,600.00	7,806.82	16,914.66	7,806.97	160.43	177.52	-90.00	-8,911.56	4,455.71	4,117.91	3,795.93	321.98	12.789		
15,700.00	7,806.81	17,014.65	7,806.97	162.18	179.05	-90.00	-9,011.55	4,456.33	4,117.93	3,792.48	325.45	12.653		
15,800.00	7,806.81	17,114.65	7,806.97	163.92	180.58	-90.00	-9,111.54	4,456.94	4,117.94	3,789.03	328.92	12.520		
15,900.00	7,806.81	17,214.64	7,806.97	165.67	182.12	-90.00	-9,211.54	4,457.55	4,117.96	3,785.57	332.39	12.389		
16,000.00	7,806.81	17,314.64	7,806.97	167.42	183.67	-90.00	-9,311.53	4,458.17	4,117.98	3,782.12	335.86	12.261		
16,100.00	7,806.80	17,414.64	7,806.97	169.17	185.22	-90.00	-9,411.53	4,458.78	4,118.00	3,778.67	339.34	12.135		
16,200.00	7,806.80	17,514.63	7,806.98	170.91	186.77	-90.00	-9,511.52	4,459.40	4,118.02	3,775.21	342.81	12.012		
16,300.00	7,806.80	17,614.63	7,806.98	172.66	188.33	-90.00	-9,611.52	4,460.01	4,118.04	3,771.75	346.29	11.892		
16,400.00	7,806.80	17,714.63	7,806.98	174.41	189.89	-90.00	-9,711.51	4,460.62	4,118.06	3,768.29	349.77	11.774		
16,500.00	7,806.79	17,814.62	7,806.98	176.16	191.46	-90.00	-9,811.51	4,461.24	4,118.08	3,764.83	353.25	11.658		
16,600.00	7,806.79	17,914.62	7,806.98	177.92	193.03	-90.00	-9,911.50	4,461.85	4,118.10	3,761.37	356.73	11.544		
16,700.00	7,806.79	18,014.62	7,806.98	179.67	194.61	-90.00	-10,011.50	4,462.47	4,118.12	3,757.91	360.22	11.432		
16,800.00	7,806.79	18,114.61	7,806.98	181.42	196.19	-90.00	-10,111.49	4,463.08	4,118.14	3,754.44	363.70	11.323		
16,900.00	7,806.78	18,214.61	7,806.98	183.17	197.77	-90.00	-10,211.49	4,463.70	4,118.17	3,750.98	367.19	11.215		
17,000.00	7,806.78	18,314.61	7,806.99	184.92	199.36	-90.00	-10,311.48	4,464.31	4,118.19	3,747.51	370.67	11.110		
17,100.00	7,806.78	18,414.60	7,806.99	186.68	200.95	-90.00	-10,411.47	4,464.93	4,118.21	3,744.05	374.16	11.007		
17,200.00	7,806.78	18,514.60	7,806.99	188.43	202.55	-90.00	-10,511.47	4,465.54	4,118.23	3,740.58	377.65	10.905		
17,300.00	7,806.77	18,614.59	7,806.99	190.18	204.15	-90.00	-10,611.46	4,466.16	4,118.25	3,737.11	381.14	10.805		
17,400.00	7,806.77	18,714.59	7,806.99	191.94	205.75	-90.00	-10,711.46	4,466.77	4,118.27	3,733.64	384.63	10.707		
17,500.00	7,806.77	18,814.59	7,806.99	193.69	207.35	-90.00	-10,811.45	4,467.39	4,118.29	3,730.17	388.12	10.611		
17,600.00	7,806.77	18,914.58	7,806.99	195.45	208.96	-90.00	-10,911.45	4,468.00	4,118.31	3,726.70	391.61	10.516		
17,700.00	7,806.76	19,014.58	7,807.00	197.20	210.57	-90.00	-11,011.44	4,468.62	4,118.33	3,723.22	395.11	10.423		
17,800.00	7,806.76	19,114.58	7,807.00	198.96	212.19	-90.00	-11,111.44	4,469.23	4,118.35	3,719.75	398.60	10.332		
17,874.48	7,806.76	19,189.06	7,807.00	200.26	213.39	-90.00	-11,185.91	4,469.69	4,118.37	3,717.16	401.21	10.265		
17,877.44	7,807.00	19,192.02	7,807.00	200.32	213.44	-90.00	-11,188.88	4,469.71	4,118.30	3,716.99	401.31	10.262 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-1.70	305.91	305.91					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.70	305.91	305.91	305.65	0.27	1,137.844	CC, ES	
200.00	200.00	190.52	190.50	0.49	0.45	90.37	-2.01	307.31	307.46	306.51	0.95	322.429		
300.00	300.00	280.85	280.73	0.85	0.78	90.54	-2.93	311.48	312.09	310.45	1.64	190.346		
400.00	400.00	370.83	370.42	1.21	1.12	90.80	-4.45	318.40	319.80	317.48	2.33	137.542		
500.00	500.00	460.27	459.32	1.57	1.47	91.15	-6.56	328.00	330.58	327.57	3.01	109.869		
600.00	600.00	549.01	547.18	1.93	1.84	91.56	-9.25	340.21	344.41	340.72	3.69	93.355		
700.00	700.00	636.90	633.76	2.29	2.22	92.01	-12.48	354.90	361.25	356.88	4.36	82.763		
800.00	800.00	723.77	718.85	2.64	2.63	92.50	-16.23	371.97	381.07	376.03	5.03	75.691		
900.00	900.00	809.49	802.26	3.00	3.06	93.00	-20.48	391.28	403.82	398.12	5.70	70.886		
1,000.00	1,000.00	893.94	883.81	3.36	3.52	93.49	-25.18	412.67	429.45	423.10	6.35	67.620		
1,100.00	1,100.00	976.99	963.36	3.72	4.01	93.98	-30.31	435.99	457.91	450.91	6.99	65.482		
1,200.00	1,200.00	1,058.55	1,040.76	4.08	4.52	94.44	-35.83	461.08	489.11	481.48	7.63	64.100		
1,300.00	1,300.00	1,138.53	1,115.93	4.44	5.06	94.89	-41.69	487.75	522.99	514.74	8.26	63.345		
1,400.00	1,400.00	1,216.84	1,188.77	4.79	5.62	95.30	-47.87	515.85	559.48	550.61	8.87	63.077		
1,500.00	1,499.98	1,293.71	1,259.46	5.14	6.21	-67.44	-54.35	545.31	597.87	588.42	9.46	63.233		
1,600.00	1,599.84	1,369.32	1,328.20	5.46	6.83	-66.66	-61.12	576.09	637.48	627.46	10.02	63.611		
1,700.00	1,699.45	1,443.64	1,394.92	5.80	7.48	-66.08	-68.15	608.05	678.21	667.62	10.59	64.048		
1,800.00	1,798.70	1,516.62	1,459.59	6.14	8.15	-65.66	-75.41	641.08	720.00	708.84	11.16	64.510		
1,900.00	1,897.47	1,588.23	1,522.19	6.49	8.84	-65.36	-82.88	675.03	762.83	751.08	11.74	64.961		
1,969.08	1,965.35	1,636.88	1,564.21	6.75	9.34	-65.21	-88.14	698.97	793.00	780.85	12.15	65.249		
2,000.00	1,995.66	1,658.42	1,582.69	6.86	9.56	-65.42	-90.52	709.79	806.72	794.38	12.34	65.380		
2,100.00	2,093.69	1,727.05	1,640.98	7.25	10.29	-66.05	-98.30	745.17	852.57	839.62	12.95	65.848		
2,200.00	2,191.72	1,794.04	1,697.02	7.65	11.04	-66.59	-106.18	781.00	900.58	887.03	13.56	66.428		
2,300.00	2,289.76	1,859.38	1,750.85	8.07	11.81	-67.06	-114.14	817.17	950.66	936.49	14.17	67.095		
2,400.00	2,387.79	1,923.06	1,802.48	8.49	12.59	-67.46	-122.14	853.58	1,002.71	987.93	14.78	67.861		
2,500.00	2,485.82	1,985.09	1,851.97	8.91	13.37	-67.81	-130.18	890.11	1,056.63	1,041.25	15.38	68.708		
2,600.00	2,583.86	2,045.48	1,899.35	9.35	14.18	-68.11	-138.22	926.66	1,112.35	1,096.37	15.98	69.624		
2,700.00	2,681.89	2,100.00	1,941.45	9.79	14.91	-68.35	-145.66	960.50	1,169.78	1,153.27	16.51	70.838		
2,800.00	2,779.92	2,161.36	1,988.03	10.24	15.78	-68.58	-154.24	999.51	1,228.83	1,211.68	17.15	71.665		
2,900.00	2,877.96	2,216.91	2,029.45	10.69	16.59	-68.76	-162.19	1,035.66	1,289.44	1,271.72	17.72	72.778		
3,000.00	2,975.99	2,270.89	2,069.00	11.14	17.39	-68.92	-170.07	1,071.53	1,351.54	1,333.26	18.28	73.940		
3,100.00	3,074.02	2,339.86	2,118.84	11.60	18.45	-69.09	-180.32	1,118.10	1,414.76	1,395.73	19.04	74.315		
3,200.00	3,172.06	2,417.19	2,174.67	12.06	19.64	-69.27	-191.81	1,170.35	1,478.08	1,458.17	19.91	74.240		
3,300.00	3,270.09	2,505.49	2,230.50	12.52	21.01	-69.44	-203.30	1,222.60	1,541.40	1,520.54	20.86	73.889		
3,400.00	3,368.12	2,571.84	2,286.33	12.98	22.05	-69.59	-214.79	1,274.86	1,604.73	1,583.05	21.68	74.035		
3,500.00	3,466.16	2,649.16	2,342.16	13.45	23.25	-69.73	-226.28	1,327.11	1,668.06	1,645.50	22.57	73.916		
3,600.00	3,564.19	2,726.49	2,397.99	13.92	24.47	-69.86	-237.77	1,379.36	1,731.40	1,707.94	23.46	73.790		
3,700.00	3,662.23	2,803.81	2,453.81	14.39	25.68	-69.98	-249.26	1,431.61	1,794.75	1,770.38	24.37	73.660		
3,800.00	3,760.26	2,881.14	2,509.64	14.86	26.90	-70.09	-260.75	1,483.87	1,858.10	1,832.83	25.27	73.526		
3,900.00	3,858.29	2,958.46	2,565.47	15.34	28.12	-70.19	-272.24	1,536.12	1,921.45	1,895.27	26.18	73.390		
4,000.00	3,956.33	3,035.79	2,621.30	15.81	29.35	-70.29	-283.73	1,588.37	1,984.81	1,957.71	27.09	73.255		
4,100.00	4,054.36	3,113.11	2,677.13	16.29	30.57	-70.38	-295.23	1,640.62	2,048.17	2,020.16	28.01	73.121		
4,200.00	4,152.39	3,209.56	2,732.96	16.77	32.10	-70.47	-306.72	1,692.88	2,111.53	2,082.47	29.06	72.658		
4,300.00	4,250.43	3,267.76	2,788.79	17.25	33.03	-70.55	-318.21	1,745.13	2,174.90	2,145.05	29.85	72.855		
4,400.00	4,348.46	3,345.09	2,844.62	17.73	34.26	-70.63	-329.70	1,797.38	2,238.27	2,207.49	30.78	72.725		
4,500.00	4,446.49	3,422.42	2,900.44	18.21	35.49	-70.70	-341.19	1,849.63	2,301.64	2,269.93	31.70	72.598		
4,600.00	4,544.53	3,500.26	2,956.27	18.69	36.73	-70.77	-352.68	1,901.89	2,365.01	2,332.37	32.64	72.465		
4,700.00	4,642.56	3,577.07	3,012.10	19.17	37.96	-70.83	-364.17	1,954.14	2,428.38	2,394.82	33.56	72.350		
4,800.00	4,740.59	3,654.39	3,067.93	19.65	39.19	-70.89	-375.66	2,006.39	2,491.76	2,457.26	34.50	72.230		
4,900.00	4,838.63	3,731.72	3,123.76	20.13	40.42	-70.95	-387.15	2,058.64	2,555.14	2,519.71	35.43	72.113		
5,000.00	4,936.66	3,809.04	3,179.59	20.62	41.66	-71.01	-398.64	2,110.90	2,618.52	2,582.15	36.37	71.998		

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-20-3N
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-20-3N	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	5,034.69	3,886.37	3,235.42	21.10	42.90	-71.06	-410.14	2,163.15	2,681.90	2,644.59	37.31	71.886		
5,200.00	5,132.73	3,963.69	3,291.24	21.59	44.13	-71.11	-421.63	2,215.40	2,745.28	2,707.04	38.25	71.777		
5,300.00	5,230.76	4,041.02	3,347.07	22.07	45.37	-71.16	-433.12	2,267.65	2,808.67	2,769.48	39.19	71.670		
5,400.00	5,328.79	4,118.34	3,402.90	22.56	46.61	-71.21	-444.61	2,319.91	2,872.05	2,831.92	40.13	71.566		
5,500.00	5,426.83	4,204.33	3,458.73	23.04	47.98	-71.25	-456.10	2,372.16	2,935.44	2,894.30	41.14	71.358		
5,600.00	5,524.86	4,272.99	3,514.56	23.53	49.08	-71.29	-467.59	2,424.41	2,998.82	2,956.80	42.02	71.365		
5,700.00	5,622.89	4,350.32	3,570.39	24.02	50.32	-71.33	-479.08	2,476.66	3,062.21	3,019.24	42.97	71.268		
5,800.00	5,720.93	4,427.65	3,626.22	24.50	51.56	-71.37	-490.57	2,528.92	3,125.60	3,081.69	43.92	71.173		
5,900.00	5,818.96	4,504.97	3,682.05	24.99	52.80	-71.41	-502.06	2,581.17	3,188.99	3,144.13	44.86	71.081		
6,000.00	5,916.99	4,582.30	3,737.87	25.48	54.04	-71.45	-513.56	2,633.42	3,252.38	3,206.57	45.81	70.990		
6,100.00	6,015.03	4,659.62	3,793.70	25.97	55.28	-71.48	-525.05	2,685.67	3,315.77	3,269.01	46.77	70.902		
6,200.00	6,113.06	4,736.95	3,849.53	26.45	56.52	-71.51	-536.54	2,737.93	3,379.16	3,331.45	47.72	70.815		
6,300.00	6,211.09	4,814.27	3,905.36	26.94	57.76	-71.55	-548.03	2,790.18	3,442.56	3,393.88	48.67	70.731		
6,400.00	6,309.13	4,908.40	3,961.19	27.43	59.27	-71.58	-559.52	2,842.43	3,505.95	3,456.20	49.74	70.479		
6,500.00	6,407.16	4,968.92	4,017.02	27.92	60.25	-71.61	-571.01	2,894.68	3,569.34	3,518.76	50.58	70.567		
6,600.00	6,505.19	5,046.25	4,072.85	28.41	61.49	-71.64	-582.50	2,946.94	3,632.74	3,581.20	51.54	70.488		
6,664.73	6,568.65	5,103.70	4,108.99	28.73	62.41	-71.65	-589.94	2,980.76	3,673.77	3,621.56	52.21	70.367		
6,700.00	6,603.27	5,123.53	4,128.65	28.90	62.73	-72.21	-593.99	2,999.16	3,696.18	3,643.69	52.49	70.416		
6,800.00	6,701.84	5,200.28	4,184.06	29.36	63.96	-73.78	-605.39	3,051.02	3,760.27	3,706.87	53.40	70.417		
6,900.00	6,800.94	5,276.26	4,238.91	29.78	65.18	-75.33	-616.68	3,102.36	3,825.11	3,770.86	54.25	70.507		
7,000.00	6,900.45	5,351.38	4,293.15	30.17	66.39	-76.86	-627.85	3,153.13	3,890.63	3,835.58	55.04	70.682		
7,100.00	7,000.24	5,425.55	4,346.70	30.53	67.58	-78.36	-638.87	3,203.25	3,956.77	3,900.99	55.78	70.938		
7,200.00	7,100.19	5,498.69	4,399.51	30.85	68.76	-79.85	-649.74	3,252.67	4,023.47	3,967.02	56.45	71.270		
7,233.81	7,134.00	5,523.17	4,417.18	30.95	69.15	83.40	-653.37	3,269.21	4,046.15	3,989.48	56.67	71.403		
7,300.00	7,200.19	5,570.95	4,451.68	31.12	69.92	83.61	-660.48	3,301.51	4,090.60	4,033.54	57.07	71.678		
7,333.81	7,234.00	5,595.37	4,469.31	31.21	70.31	83.71	-664.10	3,318.00	4,113.33	4,056.05	57.28	71.817		
7,350.00	7,250.18	5,607.09	4,477.77	31.26	70.50	-94.44	-665.85	3,325.92	4,124.22	4,066.84	57.38	71.876		
7,400.00	7,300.04	5,643.63	4,504.15	31.44	71.09	-89.77	-671.28	3,350.62	4,158.01	4,100.26	57.75	72.000		
7,450.00	7,349.39	5,680.47	4,530.75	31.66	71.68	-85.19	-676.75	3,375.51	4,191.79	4,133.61	58.19	72.040		
7,500.00	7,397.87	5,717.33	4,557.37	31.92	72.27	-80.79	-682.23	3,400.42	4,225.31	4,166.62	58.69	71.998		
7,550.00	7,445.09	5,753.93	4,583.79	32.22	72.86	-76.63	-687.67	3,425.15	4,258.31	4,199.06	59.24	71.876		
7,600.00	7,490.72	5,789.98	4,609.82	32.55	73.44	-72.76	-693.03	3,449.51	4,290.57	4,230.71	59.86	71.676		
7,650.00	7,534.38	5,825.22	4,635.26	32.92	74.00	-69.22	-698.26	3,473.33	4,321.89	4,261.36	60.53	71.399		
7,700.00	7,575.77	5,859.38	4,659.92	33.32	74.55	-66.01	-703.34	3,496.41	4,352.07	4,290.82	61.25	71.051		
7,750.00	7,614.55	5,907.81	4,683.62	33.75	75.33	-63.13	-708.21	3,518.58	4,380.94	4,318.80	62.14	70.506		
7,800.00	7,650.43	5,923.41	4,706.16	34.22	75.58	-60.57	-712.85	3,539.68	4,408.33	4,345.49	62.84	70.152		
7,850.00	7,683.15	5,952.80	4,727.37	34.71	76.06	-58.30	-717.22	3,559.54	4,434.11	4,370.41	63.70	69.613		
7,900.00	7,712.45	5,975.01	4,750.61	35.23	76.79	-89.97	-1,216.06	4,737.26	4,445.22	4,365.58	79.64	55.816		
7,950.00	7,738.11	5,942.81	4,727.21	35.78	103.94	-89.97	-1,256.96	4,737.70	4,445.42	4,364.82	80.60	55.153		
8,000.00	7,759.93	5,947.77	4,750.30	36.35	104.10	-89.97	-1,300.11	4,738.17	4,445.64	4,364.03	81.60	54.478		
8,050.00	7,777.75	5,952.90	4,769.69	36.93	104.27	-89.98	-1,345.24	4,738.66	4,445.86	4,363.22	82.64	53.796		
8,100.00	7,791.43	5,971.21	4,785.19	37.53	104.44	-89.98	-1,392.02	4,739.16	4,446.09	4,362.38	83.71	53.114		
8,150.00	7,800.87	5,962.69	4,796.64	38.14	104.62	-89.98	-1,440.15	4,739.68	4,446.32	4,361.53	84.80	52.436		
8,200.00	7,806.00	5,970.36	4,803.92	38.76	104.81	-89.99	-1,489.26	4,740.21	4,446.56	4,360.66	85.90	51.767		
8,233.89	7,807.00	5,970.14	4,806.42	39.18	104.94	-89.99	-1,522.95	4,740.57	4,446.72	4,360.08	86.64	51.322		
8,300.00	7,807.00	5,970.23	4,807.00	40.00	105.19	-90.00	-1,589.02	4,741.28	4,447.04	4,358.91	88.13	50.458		
8,400.00	7,807.00	5,970.23	4,806.99	41.29	105.60	-90.00	-1,689.01	4,742.36	4,447.53	4,357.07	90.46	49.167		
8,500.00	7,806.99	5,970.23	4,806.99	42.60	106.02	-90.00	-1,789.01	4,743.44	4,448.01	4,355.15	92.86	47.902		
8,600.00	7,806.99	10,070.23	7,806.98	43.95	106.47	-90.00	-1,889.00	4,744.52	4,448.49	4,353.17	95.33	46.666		
8,700.00	7,806.99	10,170.23	7,806.98	45.33	106.93	-90.00	-1,989.00	4,745.60	4,448.98	4,351.12	97.86	45.463		
8,800.00	7,806.99	10,270.23	7,806.97	46.74	107.41	-90.00	-2,088.99	4,746.67	4,449.46	4,349.01	100.45	44.293		
8,900.00	7,806.98	10,370.23	7,806.97	48.17	107.91	-90.00	-2,188.98	4,747.75	4,449.95	4,346.84	103.10	43.159		

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-20-3N
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-20-3N	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	7,806.98	10,470.23	7,806.96	49.62	108.43	-90.00	-2,288.98	4,748.83	4,450.43	4,344.62	105.81	42.062		
9,100.00	7,806.98	10,570.23	7,806.96	51.09	108.97	-90.00	-2,388.97	4,749.91	4,450.91	4,342.36	108.56	41.001		
9,200.00	7,806.98	10,670.23	7,806.96	52.59	109.53	-90.00	-2,488.96	4,750.98	4,451.40	4,340.05	111.35	39.976		
9,300.00	7,806.97	10,770.23	7,806.95	54.09	110.10	-90.00	-2,588.96	4,752.06	4,451.88	4,337.69	114.19	38.988		
9,400.00	7,806.97	10,870.22	7,806.95	55.62	110.70	-90.00	-2,688.95	4,753.14	4,452.36	4,335.30	117.06	38.035		
9,500.00	7,806.97	10,970.22	7,806.94	57.16	111.32	-90.00	-2,788.94	4,754.22	4,452.85	4,332.88	119.97	37.117		
9,600.00	7,806.97	11,070.22	7,806.94	58.71	111.96	-90.00	-2,888.94	4,755.30	4,453.33	4,330.42	122.91	36.232		
9,700.00	7,806.96	11,170.22	7,806.94	60.27	112.61	-90.00	-2,988.93	4,756.37	4,453.81	4,327.93	125.88	35.381		
9,800.00	7,806.96	11,270.22	7,806.93	61.84	113.29	-90.00	-3,088.92	4,757.45	4,454.30	4,325.41	128.88	34.561		
9,900.00	7,806.96	11,370.22	7,806.93	63.43	113.99	-90.00	-3,188.92	4,758.53	4,454.78	4,322.87	131.91	33.771		
10,000.00	7,806.96	11,470.22	7,806.93	65.02	114.71	-90.00	-3,288.91	4,759.61	4,455.26	4,320.30	134.96	33.011		
10,100.00	7,806.95	11,570.22	7,806.92	66.63	115.44	-90.00	-3,388.90	4,760.69	4,455.75	4,317.71	138.04	32.278		
10,200.00	7,806.95	11,670.22	7,806.92	68.24	116.20	-90.00	-3,488.90	4,761.76	4,456.23	4,315.09	141.14	31.573		
10,300.00	7,806.95	11,770.22	7,806.92	69.86	116.98	-90.00	-3,588.89	4,762.84	4,456.71	4,312.46	144.26	30.894		
10,400.00	7,806.95	11,870.22	7,806.91	71.49	117.78	-90.00	-3,688.88	4,763.92	4,457.20	4,309.80	147.40	30.240		
10,500.00	7,806.94	11,970.22	7,806.91	73.12	118.60	-90.00	-3,788.88	4,765.00	4,457.68	4,307.13	150.55	29.609		
10,600.00	7,806.94	12,070.22	7,806.91	74.76	119.43	-90.00	-3,888.87	4,766.07	4,458.17	4,304.44	153.72	29.001		
10,700.00	7,806.94	12,170.21	7,806.91	76.41	120.29	-90.00	-3,988.86	4,767.15	4,458.65	4,301.74	156.91	28.415		
10,800.00	7,806.94	12,270.21	7,806.90	78.06	121.17	-90.00	-4,088.86	4,768.23	4,459.13	4,299.02	160.12	27.849		
10,900.00	7,806.93	12,370.21	7,806.90	79.72	122.06	-90.00	-4,188.85	4,769.31	4,459.62	4,296.28	163.33	27.304		
11,000.00	7,806.93	12,470.21	7,806.90	81.38	122.98	-90.00	-4,288.84	4,770.38	4,460.10	4,293.54	166.56	26.777		
11,100.00	7,806.93	12,570.21	7,806.90	83.05	123.91	-90.00	-4,388.84	4,771.46	4,460.58	4,290.78	169.81	26.269		
11,200.00	7,806.93	12,670.21	7,806.89	84.72	124.86	-90.00	-4,488.83	4,772.54	4,461.07	4,288.00	173.06	25.777		
11,300.00	7,806.92	12,770.21	7,806.89	86.39	125.83	-90.00	-4,588.83	4,773.62	4,461.55	4,285.22	176.33	25.303		
11,400.00	7,806.92	12,870.21	7,806.89	88.07	126.82	-90.00	-4,688.82	4,774.70	4,462.03	4,282.43	179.61	24.844		
11,500.00	7,806.92	12,970.21	7,806.89	89.75	127.83	-90.00	-4,788.81	4,775.77	4,462.52	4,279.62	182.89	24.400		
11,600.00	7,806.92	13,070.21	7,806.89	91.44	128.86	-90.00	-4,888.81	4,776.85	4,463.00	4,276.81	186.19	23.970		
11,700.00	7,806.91	13,170.21	7,806.88	93.13	129.90	-90.00	-4,988.80	4,777.93	4,463.48	4,273.99	189.49	23.555		
11,800.00	7,806.91	13,270.21	7,806.88	94.82	130.96	-90.00	-5,088.79	4,779.01	4,463.97	4,271.16	192.81	23.152		
11,900.00	7,806.91	13,370.21	7,806.88	96.52	132.04	-90.00	-5,188.79	4,780.08	4,464.45	4,268.32	196.13	22.763		
12,000.00	7,806.91	13,470.21	7,806.88	98.21	133.13	-90.00	-5,288.78	4,781.16	4,464.93	4,265.47	199.46	22.385		
12,100.00	7,806.90	13,570.20	7,806.88	99.91	134.24	-90.00	-5,388.77	4,782.24	4,465.42	4,262.62	202.80	22.019		
12,200.00	7,806.90	13,670.20	7,806.88	101.62	135.37	-90.00	-5,488.77	4,783.32	4,465.90	4,259.76	206.14	21.664		
12,300.00	7,806.90	13,770.20	7,806.88	103.32	136.51	-90.00	-5,588.76	4,784.39	4,466.38	4,256.89	209.49	21.320		
12,400.00	7,806.90	13,870.20	7,806.88	105.03	137.67	-90.00	-5,688.75	4,785.47	4,466.87	4,254.02	212.85	20.986		
12,500.00	7,806.89	13,970.20	7,806.88	106.74	138.84	-90.00	-5,788.75	4,786.55	4,467.35	4,251.14	216.21	20.662		
12,600.00	7,806.89	14,070.20	7,806.88	108.45	140.02	-90.00	-5,888.74	4,787.63	4,467.83	4,248.25	219.58	20.347		
12,700.00	7,806.89	14,170.20	7,806.88	110.17	141.23	-90.00	-5,988.73	4,788.70	4,468.31	4,245.36	222.96	20.041		
12,800.00	7,806.89	14,270.20	7,806.87	111.88	142.44	-90.00	-6,088.73	4,789.78	4,468.80	4,242.46	226.33	19.744		
12,900.00	7,806.88	14,370.20	7,806.87	113.60	143.67	-90.00	-6,188.72	4,790.86	4,469.28	4,239.56	229.72	19.455		
13,000.00	7,806.88	14,470.20	7,806.87	115.32	144.91	-90.00	-6,288.71	4,791.94	4,469.76	4,236.66	233.11	19.175		
13,100.00	7,806.88	14,570.20	7,806.87	117.04	146.17	-90.00	-6,388.71	4,793.01	4,470.25	4,233.74	236.50	18.901		
13,200.00	7,806.88	14,670.20	7,806.87	118.76	147.43	-90.00	-6,488.70	4,794.09	4,470.73	4,230.83	239.90	18.636		
13,300.00	7,806.87	14,770.20	7,806.87	120.48	148.71	-90.00	-6,588.69	4,795.17	4,471.21	4,227.91	243.31	18.377		
13,400.00	7,806.87	14,870.19	7,806.87	122.21	150.00	-90.00	-6,688.69	4,796.25	4,471.70	4,224.99	246.71	18.125		
13,500.00	7,806.87	14,970.19	7,806.88	123.94	151.31	-90.00	-6,788.68	4,797.32	4,472.18	4,222.06	250.12	17.880		
13,600.00	7,806.87	15,070.19	7,806.88	125.66	152.62	-90.00	-6,888.67	4,798.40	4,472.66	4,219.13	253.54	17.641		
13,700.00	7,806.86	15,170.19	7,806.88	127.39	153.95	-90.00	-6,988.67	4,799.48	4,473.15	4,216.19	256.96	17.408		
13,800.00	7,806.86	15,270.19	7,806.88	129.12	155.29	-90.00	-7,088.66	4,800.56	4,473.63	4,213.25	260.38	17.181		
13,900.00	7,806.86	15,370.19	7,806.88	130.85	156.63	-90.00	-7,188.66	4,801.63	4,474.11	4,210.31	263.80	16.960		
14,000.00	7,806.86	15,470.19	7,806.88	132.59	157.99	-90.00	-7,288.65	4,802.71	4,474.60	4,207.37	267.23	16.744		
14,100.00	7,806.85	15,570.19	7,806.88	134.32	159.36	-90.00	-7,388.64	4,803.79	4,475.08	4,204.42	270.66	16.534		

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-20-3N
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-20-3N	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	7,806.85	15,670.19	7,806.88	136.06	160.74	-90.00	-7,488.64	4,804.87	4,475.56	4,201.47	274.10	16.328		
14,300.00	7,806.85	15,770.19	7,806.88	137.79	162.12	-90.00	-7,588.63	4,805.94	4,476.05	4,198.51	277.53	16.128		
14,400.00	7,806.85	15,870.19	7,806.88	139.53	163.52	-90.00	-7,688.62	4,807.02	4,476.53	4,195.56	280.97	15.932		
14,500.00	7,806.84	15,970.19	7,806.88	141.27	164.92	-90.00	-7,788.62	4,808.10	4,477.01	4,192.60	284.42	15.741		
14,600.00	7,806.84	16,070.19	7,806.89	143.00	166.34	-90.00	-7,888.61	4,809.18	4,477.49	4,189.63	287.86	15.554		
14,700.00	7,806.84	16,170.19	7,806.89	144.74	167.76	-90.00	-7,988.60	4,810.25	4,477.98	4,186.67	291.31	15.372		
14,800.00	7,806.84	16,270.18	7,806.89	146.48	169.19	-90.00	-8,088.60	4,811.33	4,478.46	4,183.70	294.76	15.194		
14,900.00	7,806.83	16,370.18	7,806.89	148.22	170.62	-90.00	-8,188.59	4,812.41	4,478.94	4,180.73	298.21	15.019		
15,000.00	7,806.83	16,470.18	7,806.89	149.97	172.07	-90.00	-8,288.58	4,813.48	4,479.43	4,177.76	301.66	14.849		
15,100.00	7,806.83	16,570.18	7,806.90	151.71	173.52	-90.00	-8,388.58	4,814.56	4,479.91	4,174.79	305.12	14.682		
15,200.00	7,806.83	16,670.18	7,806.90	153.45	174.98	-90.00	-8,488.57	4,815.64	4,480.39	4,171.81	308.58	14.519		
15,300.00	7,806.82	16,770.18	7,806.90	155.19	176.45	-90.00	-8,588.56	4,816.72	4,480.88	4,168.84	312.04	14.360		
15,400.00	7,806.82	16,870.18	7,806.90	156.94	177.92	-90.00	-8,688.56	4,817.79	4,481.36	4,165.86	315.50	14.204		
15,500.00	7,806.82	16,970.18	7,806.91	158.68	179.40	-90.00	-8,788.55	4,818.87	4,481.84	4,162.87	318.97	14.051		
15,600.00	7,806.82	17,070.18	7,806.91	160.43	180.89	-90.00	-8,888.54	4,819.95	4,482.32	4,159.89	322.43	13.902		
15,700.00	7,806.81	17,170.18	7,806.91	162.18	182.38	-90.00	-8,988.54	4,821.03	4,482.81	4,156.91	325.90	13.755		
15,800.00	7,806.81	17,270.18	7,806.91	163.92	183.88	-90.00	-9,088.53	4,822.10	4,483.29	4,153.92	329.37	13.612		
15,900.00	7,806.81	17,370.18	7,806.92	165.67	185.38	-90.00	-9,188.52	4,823.18	4,483.77	4,150.93	332.84	13.471		
16,000.00	7,806.81	17,470.18	7,806.92	167.42	186.89	-90.00	-9,288.52	4,824.26	4,484.26	4,147.94	336.31	13.334		
16,100.00	7,806.80	17,570.18	7,806.92	169.17	188.41	-90.00	-9,388.51	4,825.33	4,484.74	4,144.95	339.79	13.199		
16,200.00	7,806.80	17,670.17	7,806.93	170.91	189.93	-90.00	-9,488.50	4,826.41	4,485.22	4,141.96	343.27	13.066		
16,300.00	7,806.80	17,770.17	7,806.93	172.66	191.46	-90.00	-9,588.50	4,827.49	4,485.70	4,138.96	346.74	12.937		
16,400.00	7,806.80	17,870.17	7,806.93	174.41	192.99	-90.00	-9,688.49	4,828.57	4,486.19	4,135.97	350.22	12.810		
16,500.00	7,806.79	17,970.17	7,806.94	176.16	194.53	-90.00	-9,788.49	4,829.64	4,486.67	4,132.97	353.70	12.685		
16,600.00	7,806.79	18,070.17	7,806.94	177.92	196.07	-90.00	-9,888.48	4,830.72	4,487.15	4,129.97	357.18	12.563		
16,700.00	7,806.79	18,170.17	7,806.94	179.67	197.61	-90.00	-9,988.47	4,831.80	4,487.64	4,126.97	360.67	12.443		
16,800.00	7,806.79	18,270.17	7,806.95	181.42	199.16	-90.00	-10,088.47	4,832.87	4,488.12	4,123.97	364.15	12.325		
16,900.00	7,806.78	18,370.17	7,806.95	183.17	200.72	-90.00	-10,188.46	4,833.95	4,488.60	4,120.97	367.64	12.209		
17,000.00	7,806.78	18,470.17	7,806.96	184.92	202.28	-90.00	-10,288.45	4,835.03	4,489.08	4,117.96	371.12	12.096		
17,100.00	7,806.78	18,570.17	7,806.96	186.68	203.84	-90.00	-10,388.45	4,836.11	4,489.57	4,114.96	374.61	11.985		
17,200.00	7,806.78	18,670.17	7,806.96	188.43	205.41	-90.00	-10,488.44	4,837.18	4,490.05	4,111.95	378.10	11.875		
17,300.00	7,806.77	18,770.17	7,806.97	190.18	206.98	-90.00	-10,588.43	4,838.26	4,490.53	4,108.95	381.59	11.768		
17,400.00	7,806.77	18,870.17	7,806.97	191.94	208.56	-90.00	-10,688.43	4,839.34	4,491.02	4,105.94	385.08	11.663		
17,500.00	7,806.77	18,970.17	7,806.98	193.69	210.14	-90.00	-10,788.42	4,840.41	4,491.50	4,102.93	388.57	11.559		
17,600.00	7,806.77	19,070.16	7,806.98	195.45	211.72	-90.00	-10,888.41	4,841.49	4,491.98	4,099.92	392.06	11.457		
17,700.00	7,806.76	19,170.16	7,806.99	197.20	213.31	-90.00	-10,988.41	4,842.57	4,492.46	4,096.91	395.56	11.357		
17,800.00	7,806.76	19,270.16	7,806.99	198.96	214.90	-90.00	-11,088.40	4,843.65	4,492.95	4,093.89	399.05	11.259		
17,877.44	7,807.00	19,347.61	7,807.00	200.32	216.13	-90.00	-11,165.84	4,844.48	4,493.25	4,091.49	401.76	11.184 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	161.95					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.90	161.95	161.95	161.68	0.27	602.384		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.90	161.95	161.95	160.97	0.99	164.287		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.90	161.95	161.95	160.25	1.70	95.113		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.90	161.95	161.95	159.53	2.42	66.932		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.90	161.95	161.95	158.82	3.14	51.633		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.90	161.95	161.95	158.10	3.85	42.027		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.90	161.95	161.95	157.38	4.57	35.434		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.90	161.95	161.95	156.67	5.29	30.630		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.90	161.95	161.95	155.95	6.00	26.972 CC, ES		
1,000.00	1,000.00	995.37	995.35	3.36	3.33	90.61	-1.74	163.30	163.37	156.68	6.69	24.419		
1,100.00	1,100.00	1,090.53	1,090.39	3.72	3.65	91.45	-4.25	167.33	167.66	160.30	7.36	22.771		
1,200.00	1,200.00	1,185.27	1,184.79	4.08	3.98	92.76	-8.40	174.00	174.87	166.83	8.03	21.771		
1,300.00	1,300.00	1,279.38	1,278.27	4.44	4.32	94.42	-14.15	183.25	185.08	176.38	8.70	21.283		
1,400.00	1,400.00	1,372.68	1,370.54	4.79	4.67	96.28	-21.45	194.99	198.37	189.01	9.35	21.209		
1,500.00	1,499.98	1,465.20	1,461.54	5.14	5.03	-65.64	-30.25	209.14	214.08	204.10	9.98	21.442		
1,600.00	1,599.84	1,557.06	1,551.32	5.46	5.42	-64.44	-40.52	225.66	231.39	220.80	10.59	21.849		
1,700.00	1,699.45	1,648.20	1,639.72	5.80	5.83	-63.76	-52.21	244.45	250.15	238.95	11.20	22.329		
1,800.00	1,798.70	1,738.57	1,726.64	6.14	6.26	-63.50	-65.25	265.43	270.28	258.45	11.82	22.863		
1,900.00	1,897.47	1,828.52	1,812.35	6.49	6.73	-63.55	-79.67	288.61	291.72	279.26	12.46	23.418		
1,969.08	1,965.35	1,904.08	1,876.28	6.75	7.14	-63.86	-90.95	306.75	306.55	293.53	13.02	23.552		
2,000.00	1,995.66	1,926.11	1,904.91	6.86	7.27	-64.16	-96.00	314.88	313.03	299.81	13.22	23.672		
2,100.00	2,093.69	2,023.75	1,997.51	7.25	7.83	-65.06	-112.34	341.15	334.07	320.04	14.02	23.826		
2,200.00	2,191.72	2,121.38	2,090.12	7.65	8.40	-65.85	-128.68	367.43	355.17	340.33	14.84	23.932		
2,300.00	2,289.76	2,219.02	2,182.72	8.07	8.98	-66.56	-145.02	393.70	376.33	360.65	15.68	24.002		
2,400.00	2,387.79	2,316.66	2,275.33	8.49	9.58	-67.19	-161.36	419.98	397.54	381.00	16.53	24.044		
2,500.00	2,485.82	2,414.29	2,367.93	8.91	10.18	-67.75	-177.70	446.25	418.79	401.38	17.40	24.064		
2,600.00	2,583.86	2,511.93	2,460.54	9.35	10.79	-68.26	-194.04	472.53	440.07	421.79	18.29	24.067		
2,700.00	2,681.89	2,609.57	2,553.14	9.79	11.41	-68.73	-210.37	498.80	461.39	442.21	19.18	24.058		
2,800.00	2,779.92	2,707.20	2,645.74	10.24	12.03	-69.15	-226.71	525.08	482.73	462.65	20.08	24.039		
2,900.00	2,877.96	2,804.84	2,738.35	10.69	12.66	-69.54	-243.05	551.35	504.09	483.10	20.99	24.013		
3,000.00	2,975.99	2,902.48	2,830.95	11.14	13.28	-69.89	-259.39	577.63	525.48	503.57	21.91	23.982		
3,100.00	3,074.02	3,000.11	2,923.56	11.60	13.92	-70.22	-275.73	603.90	546.88	524.04	22.84	23.947		
3,200.00	3,172.06	3,102.25	3,016.16	12.06	14.58	-70.52	-292.07	630.18	568.30	544.51	23.79	23.888		
3,300.00	3,270.09	3,204.61	3,108.77	12.52	15.25	-70.80	-308.41	656.45	589.73	564.98	24.75	23.827		
3,400.00	3,368.12	3,306.98	3,201.37	12.98	15.92	-71.07	-324.75	682.73	611.18	585.46	25.72	23.766		
3,500.00	3,466.16	3,409.34	3,293.98	13.45	16.59	-71.31	-341.09	709.00	632.63	605.95	26.69	23.706		
3,600.00	3,564.19	3,488.30	3,386.58	13.92	17.11	-71.54	-357.43	735.28	654.10	626.56	27.55	23.746		
3,700.00	3,662.23	3,585.93	3,479.18	14.39	17.75	-71.75	-373.77	761.55	675.58	647.08	28.50	23.705		
3,800.00	3,760.26	3,683.57	3,571.79	14.86	18.40	-71.95	-390.10	787.83	697.06	667.61	29.46	23.664		
3,900.00	3,858.29	3,781.21	3,664.39	15.34	19.04	-72.14	-406.44	814.10	718.55	688.14	30.42	23.623		
4,000.00	3,956.33	3,878.84	3,757.00	15.81	19.69	-72.32	-422.78	840.38	740.05	708.67	31.38	23.583		
4,100.00	4,054.36	3,976.48	3,849.60	16.29	20.34	-72.48	-439.12	866.66	761.56	729.21	32.35	23.544		
4,200.00	4,152.39	4,074.12	3,942.21	16.77	20.99	-72.64	-455.46	892.93	783.07	749.76	33.31	23.506		
4,300.00	4,250.43	4,171.75	4,034.81	17.25	21.64	-72.79	-471.80	919.21	804.59	770.30	34.28	23.469		
4,400.00	4,348.46	4,269.39	4,127.42	17.73	22.29	-72.93	-488.14	945.48	826.11	790.85	35.26	23.432		
4,500.00	4,446.49	4,367.03	4,220.02	18.21	22.94	-73.07	-504.48	971.76	847.63	811.40	36.23	23.396		
4,600.00	4,544.53	4,464.67	4,312.63	18.69	23.59	-73.19	-520.82	998.03	869.16	831.96	37.20	23.362		
4,700.00	4,642.56	4,562.30	4,405.23	19.17	24.24	-73.32	-537.16	1,024.31	890.70	852.52	38.18	23.328		
4,800.00	4,740.59	4,659.94	4,497.83	19.65	24.89	-73.43	-553.50	1,050.58	912.24	873.08	39.16	23.295		
4,900.00	4,838.63	4,757.58	4,590.44	20.13	25.55	-73.54	-569.84	1,076.86	933.78	893.64	40.14	23.263		
5,000.00	4,936.66	4,855.21	4,683.04	20.62	26.20	-73.65	-586.17	1,103.13	955.32	914.20	41.12	23.232		

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-20-3N
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-20-3N	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	5,034.69	4,952.85	4,775.65	21.10	26.85	-73.75	-602.51	1,129.41	976.87	934.77	42.10	23.202		
5,200.00	5,132.73	5,050.49	4,868.25	21.59	27.51	-73.85	-618.85	1,155.68	998.42	955.33	43.09	23.173		
5,300.00	5,230.76	5,148.12	4,960.86	22.07	28.16	-73.94	-635.19	1,181.96	1,019.97	975.90	44.07	23.144		
5,400.00	5,328.79	5,245.76	5,053.46	22.56	28.82	-74.03	-651.53	1,208.23	1,041.53	996.47	45.06	23.117		
5,500.00	5,426.83	5,343.40	5,146.07	23.04	29.47	-74.11	-667.87	1,234.51	1,063.09	1,017.04	46.04	23.090		
5,600.00	5,524.86	5,441.03	5,238.67	23.53	30.13	-74.19	-684.21	1,260.78	1,084.65	1,037.62	47.03	23.064		
5,700.00	5,622.89	5,538.67	5,331.27	24.02	30.78	-74.27	-700.55	1,287.06	1,106.21	1,058.19	48.02	23.038		
5,800.00	5,720.93	5,636.31	5,423.88	24.50	31.44	-74.35	-716.89	1,313.33	1,127.77	1,078.77	49.00	23.013		
5,900.00	5,818.96	5,733.94	5,516.48	24.99	32.10	-74.42	-733.23	1,339.61	1,149.34	1,099.34	49.99	22.989		
6,000.00	5,916.99	5,831.58	5,609.09	25.48	32.75	-74.49	-749.57	1,365.88	1,170.90	1,119.92	50.98	22.966		
6,100.00	6,015.03	5,929.22	5,701.69	25.97	33.41	-74.56	-765.90	1,392.16	1,192.47	1,140.50	51.97	22.943		
6,200.00	6,113.06	6,026.85	5,794.30	26.45	34.07	-74.62	-782.24	1,418.43	1,214.04	1,161.08	52.97	22.921		
6,300.00	6,211.09	6,124.49	5,886.90	26.94	34.72	-74.69	-798.58	1,444.71	1,235.62	1,181.66	53.96	22.900		
6,400.00	6,309.13	6,222.13	5,979.51	27.43	35.38	-74.75	-814.92	1,470.98	1,257.19	1,202.24	54.95	22.879		
6,500.00	6,407.16	6,319.76	6,072.11	27.92	36.04	-74.81	-831.26	1,497.26	1,278.76	1,222.82	55.94	22.858		
6,600.00	6,505.19	6,417.40	6,164.71	28.41	36.70	-74.86	-847.60	1,523.53	1,300.34	1,243.40	56.94	22.838		
6,664.73	6,568.65	6,480.60	6,224.66	28.73	37.12	-74.90	-858.18	1,540.54	1,314.31	1,256.73	57.58	22.826		
6,700.00	6,603.27	6,515.03	6,257.31	28.90	37.35	-75.06	-863.94	1,549.81	1,321.97	1,264.04	57.93	22.822		
6,800.00	6,701.84	6,612.48	6,349.74	29.36	38.01	-75.43	-880.25	1,576.03	1,344.29	1,285.43	58.86	22.838		
6,900.00	6,800.94	6,709.63	6,441.88	29.78	38.66	-75.68	-896.50	1,602.17	1,367.48	1,307.76	59.73	22.896		
7,000.00	6,900.45	6,839.52	6,565.44	30.17	39.52	-75.69	-917.65	1,636.18	1,390.96	1,330.13	60.83	22.868		
7,100.00	7,000.24	7,004.22	6,724.37	30.53	40.49	-75.51	-940.43	1,672.81	1,411.28	1,349.20	62.08	22.732		
7,200.00	7,100.19	7,172.10	6,888.64	30.85	41.32	-75.24	-958.64	1,702.10	1,427.76	1,364.62	63.14	22.612		
7,233.81	7,134.00	7,229.50	6,945.23	30.95	41.58	88.62	-963.70	1,710.24	1,432.44	1,368.99	63.45	22.577		
7,300.00	7,200.19	7,342.79	7,057.44	31.12	42.03	88.96	-971.92	1,723.46	1,440.09	1,376.10	63.99	22.506		
7,333.81	7,234.00	7,401.10	7,115.41	31.21	42.25	89.10	-975.24	1,728.79	1,443.15	1,378.91	64.24	22.465		
7,350.00	7,250.18	7,429.12	7,143.31	31.26	42.34	-90.39	-976.61	1,731.00	1,444.42	1,380.06	64.36	22.444		
7,400.00	7,300.04	7,515.83	7,229.79	31.44	42.62	-90.20	-979.95	1,736.36	1,447.50	1,382.73	64.77	22.347		
7,450.00	7,349.39	7,601.88	7,315.75	31.66	42.85	-90.47	-981.88	1,739.48	1,449.36	1,384.13	65.23	22.219		
7,500.00	7,397.87	7,686.10	7,399.96	31.92	43.04	-91.19	-982.46	1,740.40	1,450.10	1,384.37	65.73	22.061		
7,550.00	7,445.09	7,731.23	7,445.09	32.22	43.13	-91.73	-982.46	1,740.41	1,450.54	1,384.21	66.33	21.868		
7,600.00	7,490.72	7,776.85	7,490.72	32.55	43.23	-92.38	-982.46	1,740.41	1,451.34	1,384.34	67.01	21.660		
7,650.00	7,534.38	7,827.92	7,541.74	32.92	43.35	-93.17	-984.37	1,740.42	1,452.58	1,384.83	67.75	21.441		
7,700.00	7,575.77	7,882.19	7,595.53	33.32	43.51	-93.98	-991.35	1,740.46	1,454.15	1,385.61	68.53	21.218		
7,750.00	7,614.55	7,939.43	7,651.29	33.75	43.71	-94.78	-1,004.19	1,740.54	1,456.02	1,386.66	69.36	20.992		
7,800.00	7,650.43	8,000.03	7,708.61	34.22	43.96	-95.59	-1,023.77	1,740.65	1,458.16	1,387.94	70.21	20.768		
7,850.00	7,683.15	8,064.39	7,766.86	34.71	44.26	-96.38	-1,051.06	1,740.82	1,460.48	1,389.39	71.09	20.544		
7,900.00	7,712.45	8,132.86	7,825.05	35.23	44.62	-97.15	-1,087.07	1,741.03	1,462.90	1,390.93	71.97	20.326		
7,950.00	7,738.11	8,205.74	7,881.80	35.78	45.06	-97.90	-1,132.72	1,741.31	1,465.33	1,392.48	72.85	20.114		
8,000.00	7,759.93	8,283.18	7,935.23	36.35	45.57	-98.59	-1,188.68	1,741.64	1,467.63	1,393.91	73.72	19.907		
8,050.00	7,777.75	8,365.06	7,982.98	36.93	46.16	-99.19	-1,255.12	1,742.04	1,469.68	1,395.09	74.59	19.704		
8,100.00	7,791.43	8,450.98	8,022.37	37.53	46.83	-99.68	-1,331.38	1,742.49	1,471.34	1,395.89	75.46	19.499		
8,150.00	7,800.87	8,540.13	8,050.72	38.14	47.58	-100.03	-1,415.80	1,743.00	1,472.50	1,396.15	76.35	19.286		
8,200.00	7,806.00	8,631.31	8,065.83	38.76	48.39	-100.19	-1,505.63	1,743.54	1,473.07	1,395.78	77.29	19.059		
8,233.89	7,807.00	8,687.93	8,068.00	39.18	48.92	-100.21	-1,562.19	1,743.88	1,473.10	1,395.12	77.98	18.891		
8,300.00	7,807.00	8,754.04	8,068.00	40.00	49.54	-100.21	-1,628.29	1,744.27	1,473.10	1,393.57	79.53	18.522		
8,400.00	7,807.00	8,854.04	8,068.00	41.29	50.52	-100.21	-1,728.29	1,744.87	1,473.11	1,391.17	81.94	17.977		
8,500.00	7,806.99	8,954.04	8,067.99	42.60	51.54	-100.21	-1,828.29	1,745.47	1,473.11	1,388.68	84.43	17.448		
8,600.00	7,806.99	9,054.04	8,067.99	43.95	52.60	-100.21	-1,928.29	1,746.07	1,473.12	1,386.13	86.99	16.935		
8,700.00	7,806.99	9,154.04	8,067.99	45.33	53.70	-100.21	-2,028.28	1,746.66	1,473.12	1,383.51	89.61	16.440		
8,800.00	7,806.99	9,254.04	8,067.99	46.74	54.84	-100.21	-2,128.28	1,747.26	1,473.12	1,380.84	92.28	15.963		
8,900.00	7,806.98	9,354.04	8,067.98	48.17	56.01	-100.21	-2,228.28	1,747.86	1,473.13	1,378.11	95.02	15.504		

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-20-3N
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-20-3N	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	7,806.98	9,454.04	8,067.98	49.62	57.21	-100.21	-2,328.28	1,748.46	1,473.13	1,375.33	97.80	15.063		
9,100.00	7,806.98	9,554.04	8,067.98	51.09	58.43	-100.21	-2,428.28	1,749.06	1,473.13	1,372.51	100.62	14.640		
9,200.00	7,806.98	9,654.04	8,067.98	52.59	59.69	-100.21	-2,528.28	1,749.65	1,473.14	1,369.65	103.49	14.235		
9,300.00	7,806.97	9,754.04	8,067.98	54.09	60.97	-100.21	-2,628.27	1,750.25	1,473.14	1,366.75	106.39	13.846		
9,400.00	7,806.97	9,854.04	8,067.97	55.62	62.28	-100.21	-2,728.27	1,750.85	1,473.15	1,363.81	109.33	13.474		
9,500.00	7,806.97	9,954.04	8,067.97	57.16	63.61	-100.21	-2,828.27	1,751.45	1,473.15	1,360.85	112.30	13.118		
9,600.00	7,806.97	10,054.04	8,067.97	58.71	64.96	-100.21	-2,928.27	1,752.05	1,473.15	1,357.85	115.31	12.776		
9,700.00	7,806.96	10,154.04	8,067.97	60.27	66.34	-100.21	-3,028.27	1,752.65	1,473.16	1,354.82	118.33	12.449		
9,800.00	7,806.96	10,254.04	8,067.96	61.84	67.73	-100.21	-3,128.27	1,753.24	1,473.16	1,351.77	121.39	12.136		
9,900.00	7,806.96	10,354.04	8,067.96	63.43	69.14	-100.21	-3,228.26	1,753.84	1,473.17	1,348.70	124.47	11.836		
10,000.00	7,806.96	10,454.04	8,067.96	65.02	70.56	-100.21	-3,328.26	1,754.44	1,473.17	1,345.61	127.56	11.548		
10,100.00	7,806.95	10,554.04	8,067.96	66.63	72.01	-100.21	-3,428.26	1,755.04	1,473.17	1,342.49	130.68	11.273		
10,200.00	7,806.95	10,654.04	8,067.96	68.24	73.46	-100.21	-3,528.26	1,755.64	1,473.18	1,339.35	133.82	11.008		
10,300.00	7,806.95	10,754.04	8,067.95	69.86	74.93	-100.20	-3,628.26	1,756.23	1,473.18	1,336.20	136.98	10.755		
10,400.00	7,806.95	10,854.04	8,067.95	71.49	76.42	-100.20	-3,728.25	1,756.83	1,473.18	1,333.03	140.15	10.511		
10,500.00	7,806.94	10,954.04	8,067.95	73.12	77.91	-100.20	-3,828.25	1,757.43	1,473.19	1,329.85	143.34	10.278		
10,600.00	7,806.94	11,054.04	8,067.95	74.76	79.42	-100.20	-3,928.25	1,758.03	1,473.19	1,326.65	146.54	10.053		
10,700.00	7,806.94	11,154.04	8,067.94	76.41	80.94	-100.20	-4,028.25	1,758.63	1,473.20	1,323.44	149.76	9.837		
10,800.00	7,806.94	11,254.04	8,067.94	78.06	82.47	-100.20	-4,128.25	1,759.23	1,473.20	1,320.22	152.98	9.630		
10,900.00	7,806.93	11,354.04	8,067.94	79.72	84.01	-100.20	-4,228.25	1,759.82	1,473.20	1,316.98	156.22	9.430		
11,000.00	7,806.93	11,454.04	8,067.94	81.38	85.55	-100.20	-4,328.24	1,760.42	1,473.21	1,313.73	159.47	9.238		
11,100.00	7,806.93	11,554.04	8,067.93	83.05	87.11	-100.20	-4,428.24	1,761.02	1,473.21	1,310.48	162.73	9.053		
11,200.00	7,806.93	11,654.04	8,067.93	84.72	88.68	-100.20	-4,528.24	1,761.62	1,473.22	1,307.21	166.00	8.875		
11,300.00	7,806.92	11,754.04	8,067.93	86.39	90.25	-100.20	-4,628.24	1,762.22	1,473.22	1,303.93	169.28	8.703		
11,400.00	7,806.92	11,854.04	8,067.93	88.07	91.83	-100.20	-4,728.24	1,762.81	1,473.22	1,300.65	172.57	8.537		
11,500.00	7,806.92	11,954.04	8,067.93	89.75	93.42	-100.20	-4,828.23	1,763.41	1,473.23	1,297.36	175.87	8.377		
11,600.00	7,806.92	12,054.04	8,067.92	91.44	95.01	-100.20	-4,928.23	1,764.01	1,473.23	1,294.06	179.17	8.222		
11,700.00	7,806.91	12,154.04	8,067.92	93.13	96.61	-100.20	-5,028.23	1,764.61	1,473.24	1,290.75	182.49	8.073		
11,800.00	7,806.91	12,254.04	8,067.92	94.82	98.22	-100.20	-5,128.23	1,765.21	1,473.24	1,287.43	185.81	7.929		
11,900.00	7,806.91	12,354.04	8,067.92	96.52	99.83	-100.20	-5,228.23	1,765.81	1,473.24	1,284.11	189.13	7.790		
12,000.00	7,806.91	12,454.04	8,067.91	98.21	101.45	-100.20	-5,328.23	1,766.40	1,473.25	1,280.78	192.46	7.655		
12,100.00	7,806.90	12,554.04	8,067.91	99.91	103.07	-100.20	-5,428.22	1,767.00	1,473.25	1,277.45	195.80	7.524		
12,200.00	7,806.90	12,654.04	8,067.91	101.62	104.70	-100.20	-5,528.22	1,767.60	1,473.25	1,274.11	199.14	7.398		
12,300.00	7,806.90	12,754.04	8,067.91	103.32	106.33	-100.20	-5,628.22	1,768.20	1,473.26	1,270.77	202.49	7.276		
12,400.00	7,806.90	12,854.04	8,067.90	105.03	107.97	-100.20	-5,728.22	1,768.80	1,473.26	1,267.42	205.84	7.157		
12,500.00	7,806.89	12,954.04	8,067.90	106.74	109.61	-100.20	-5,828.22	1,769.40	1,473.27	1,264.06	209.20	7.042		
12,600.00	7,806.89	13,054.04	8,067.90	108.45	111.25	-100.20	-5,928.22	1,769.99	1,473.27	1,260.70	212.57	6.931		
12,700.00	7,806.89	13,154.04	8,067.90	110.17	112.90	-100.20	-6,028.21	1,770.59	1,473.27	1,257.34	215.93	6.823		
12,800.00	7,806.89	13,254.04	8,067.90	111.88	114.56	-100.20	-6,128.21	1,771.19	1,473.28	1,253.97	219.30	6.718		
12,900.00	7,806.88	13,354.04	8,067.89	113.60	116.21	-100.20	-6,228.21	1,771.79	1,473.28	1,250.60	222.68	6.616		
13,000.00	7,806.88	13,454.04	8,067.89	115.32	117.87	-100.20	-6,328.21	1,772.39	1,473.29	1,247.23	226.06	6.517		
13,100.00	7,806.88	13,554.04	8,067.89	117.04	119.54	-100.20	-6,428.21	1,772.98	1,473.29	1,243.85	229.44	6.421		
13,200.00	7,806.88	13,654.04	8,067.89	118.76	121.20	-100.20	-6,528.20	1,773.58	1,473.29	1,240.46	232.83	6.328		
13,300.00	7,806.87	13,754.04	8,067.88	120.48	122.87	-100.20	-6,628.20	1,774.18	1,473.30	1,237.08	236.22	6.237		
13,400.00	7,806.87	13,854.04	8,067.88	122.21	124.55	-100.20	-6,728.20	1,774.78	1,473.30	1,233.69	239.61	6.149		
13,500.00	7,806.87	13,954.04	8,067.88	123.94	126.22	-100.20	-6,828.20	1,775.38	1,473.30	1,230.30	243.01	6.063		
13,600.00	7,806.87	14,054.04	8,067.88	125.66	127.90	-100.20	-6,928.20	1,775.98	1,473.31	1,226.90	246.41	5.979		
13,700.00	7,806.86	14,154.04	8,067.87	127.39	129.58	-100.20	-7,028.20	1,776.57	1,473.31	1,223.50	249.81	5.898		
13,800.00	7,806.86	14,254.04	8,067.87	129.12	131.26	-100.20	-7,128.19	1,777.17	1,473.32	1,220.10	253.21	5.819		
13,900.00	7,806.86	14,354.04	8,067.87	130.85	132.95	-100.20	-7,228.19	1,777.77	1,473.32	1,216.70	256.62	5.741		
14,000.00	7,806.86	14,454.04	8,067.87	132.59	134.63	-100.20	-7,328.19	1,778.37	1,473.32	1,213.29	260.03	5.666		
14,100.00	7,806.85	14,554.04	8,067.87	134.32	136.32	-100.20	-7,428.19	1,778.97	1,473.33	1,209.89	263.44	5.593		

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-20-3N
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-20-3N	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	7,806.85	14,654.04	8,067.86	136.06	138.02	-100.20	-7,528.19	1,779.56	1,473.33	1,206.48	266.85	5.521		
14,300.00	7,806.85	14,754.04	8,067.86	137.79	139.71	-100.20	-7,628.18	1,780.16	1,473.34	1,203.06	270.27	5.451		
14,400.00	7,806.85	14,854.04	8,067.86	139.53	141.41	-100.20	-7,728.18	1,780.76	1,473.34	1,199.65	273.69	5.383		
14,500.00	7,806.84	14,954.04	8,067.86	141.27	143.10	-100.20	-7,828.18	1,781.36	1,473.34	1,196.23	277.11	5.317		
14,600.00	7,806.84	15,054.04	8,067.85	143.00	144.80	-100.20	-7,928.18	1,781.96	1,473.35	1,192.81	280.53	5.252		
14,700.00	7,806.84	15,154.04	8,067.85	144.74	146.50	-100.20	-8,028.18	1,782.56	1,473.35	1,189.39	283.96	5.189		
14,800.00	7,806.84	15,254.04	8,067.85	146.48	148.21	-100.20	-8,128.18	1,783.15	1,473.35	1,185.97	287.38	5.127		
14,900.00	7,806.83	15,354.04	8,067.85	148.22	149.91	-100.20	-8,228.17	1,783.75	1,473.36	1,182.55	290.81	5.066		
15,000.00	7,806.83	15,454.04	8,067.85	149.97	151.62	-100.20	-8,328.17	1,784.35	1,473.36	1,179.12	294.24	5.007		
15,100.00	7,806.83	15,554.04	8,067.84	151.71	153.33	-100.20	-8,428.17	1,784.95	1,473.37	1,175.69	297.67	4.950		
15,200.00	7,806.83	15,654.04	8,067.84	153.45	155.04	-100.20	-8,528.17	1,785.55	1,473.37	1,172.26	301.11	4.893		
15,300.00	7,806.82	15,754.04	8,067.84	155.19	156.75	-100.20	-8,628.17	1,786.14	1,473.37	1,168.83	304.54	4.838		
15,400.00	7,806.82	15,854.04	8,067.84	156.94	158.46	-100.20	-8,728.17	1,786.74	1,473.38	1,165.40	307.98	4.784		
15,500.00	7,806.82	15,954.04	8,067.83	158.68	160.17	-100.20	-8,828.16	1,787.34	1,473.38	1,161.97	311.41	4.731		
15,600.00	7,806.82	16,054.04	8,067.83	160.43	161.89	-100.20	-8,928.16	1,787.94	1,473.39	1,158.53	314.85	4.680		
15,700.00	7,806.81	16,154.04	8,067.83	162.18	163.60	-100.20	-9,028.16	1,788.54	1,473.39	1,155.10	318.29	4.629		
15,800.00	7,806.81	16,254.04	8,067.83	163.92	165.32	-100.20	-9,128.16	1,789.14	1,473.39	1,151.66	321.74	4.580		
15,900.00	7,806.81	16,354.04	8,067.82	165.67	167.04	-100.20	-9,228.16	1,789.73	1,473.40	1,148.22	325.18	4.531		
16,000.00	7,806.81	16,454.04	8,067.82	167.42	168.76	-100.20	-9,328.15	1,790.33	1,473.40	1,144.78	328.62	4.484		
16,100.00	7,806.80	16,554.04	8,067.82	169.17	170.48	-100.20	-9,428.15	1,790.93	1,473.40	1,141.34	332.07	4.437		
16,200.00	7,806.80	16,654.04	8,067.82	170.91	172.20	-100.20	-9,528.15	1,791.53	1,473.41	1,137.89	335.51	4.391		
16,300.00	7,806.80	16,754.04	8,067.82	172.66	173.92	-100.20	-9,628.15	1,792.13	1,473.41	1,134.45	338.96	4.347		
16,400.00	7,806.80	16,854.04	8,067.81	174.41	175.65	-100.20	-9,728.15	1,792.72	1,473.42	1,131.01	342.41	4.303		
16,500.00	7,806.79	16,954.04	8,067.81	176.16	177.37	-100.20	-9,828.15	1,793.32	1,473.42	1,127.56	345.86	4.260		
16,600.00	7,806.79	17,054.04	8,067.81	177.92	179.10	-100.20	-9,928.14	1,793.92	1,473.42	1,124.11	349.31	4.218		
16,700.00	7,806.79	17,154.04	8,067.81	179.67	180.82	-100.20	-10,028.14	1,794.52	1,473.43	1,120.67	352.76	4.177		
16,800.00	7,806.79	17,254.04	8,067.80	181.42	182.55	-100.20	-10,128.14	1,795.12	1,473.43	1,117.22	356.21	4.136		
16,900.00	7,806.78	17,354.04	8,067.80	183.17	184.28	-100.20	-10,228.14	1,795.72	1,473.44	1,113.77	359.67	4.097		
17,000.00	7,806.78	17,454.04	8,067.80	184.92	186.01	-100.20	-10,328.14	1,796.31	1,473.44	1,110.32	363.12	4.058		
17,100.00	7,806.78	17,554.04	8,067.80	186.68	187.74	-100.20	-10,428.13	1,796.91	1,473.44	1,106.87	366.58	4.019		
17,200.00	7,806.78	17,654.04	8,067.79	188.43	189.47	-100.20	-10,528.13	1,797.51	1,473.45	1,103.41	370.03	3.982		
17,300.00	7,806.77	17,754.04	8,067.79	190.18	191.20	-100.20	-10,628.13	1,798.11	1,473.45	1,099.96	373.49	3.945		
17,400.00	7,806.77	17,854.04	8,067.79	191.94	192.93	-100.20	-10,728.13	1,798.71	1,473.45	1,096.51	376.95	3.909		
17,500.00	7,806.77	17,954.04	8,067.79	193.69	194.67	-100.20	-10,828.13	1,799.31	1,473.46	1,093.05	380.41	3.873		
17,600.00	7,806.77	18,054.04	8,067.79	195.45	196.40	-100.20	-10,928.13	1,799.90	1,473.46	1,089.60	383.87	3.838		
17,700.00	7,806.76	18,154.04	8,067.78	197.20	198.13	-100.20	-11,028.12	1,800.50	1,473.47	1,086.14	387.33	3.804		
17,800.00	7,806.76	18,254.04	8,067.78	198.96	199.87	-100.20	-11,128.12	1,801.10	1,473.47	1,082.68	390.79	3.771		
17,800.90	7,806.76	18,254.94	8,067.78	198.97	199.88	-100.20	-11,129.02	1,801.11	1,473.47	1,082.65	390.82	3.770		
17,877.44	7,807.00	18,322.08	8,067.89	200.32	201.05	-100.20	-11,196.16	1,801.63	1,473.53	1,080.03	393.50	3.745 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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-20-9N - 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			
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-1.00	179.95	179.95							
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.00	179.95	179.95	179.68	0.27	669.317				
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.00	179.95	179.95	178.96	0.99	182.541				
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.00	179.95	179.95	178.25	1.70	105.682				
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.00	179.95	179.95	177.53	2.42	74.369				
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.00	179.95	179.95	176.81	3.14	57.370				
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-1.00	179.95	179.95	176.10	3.85	46.697				
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-1.00	179.95	179.95	175.38	4.57	39.372				
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-1.00	179.95	179.95	174.66	5.29	34.033 CC, ES				
900.00	900.00	894.69	894.67	3.00	2.97	90.55	-1.73	181.33	181.42	175.44	5.97	30.377				
1,000.00	1,000.00	989.17	989.04	3.36	3.29	91.21	-3.92	185.47	185.83	179.19	6.64	27.967				
1,100.00	1,100.00	1,083.25	1,082.79	3.72	3.62	92.25	-7.54	192.31	193.23	185.92	7.31	26.419				
1,200.00	1,200.00	1,176.71	1,175.63	4.08	3.96	93.56	-12.56	201.81	203.67	195.69	7.98	25.524				
1,300.00	1,300.00	1,269.38	1,267.28	4.44	4.31	95.06	-18.93	213.86	217.18	208.54	8.64	25.144				
1,400.00	1,400.00	1,361.06	1,357.48	4.79	4.67	96.64	-26.60	228.36	233.80	224.52	9.29	25.174				
1,500.00	1,499.98	1,451.83	1,446.22	5.14	5.06	-65.50	-35.51	245.22	252.84	242.94	9.91	25.524				
1,600.00	1,599.84	1,541.82	1,533.56	5.46	5.47	-64.47	-45.64	264.38	273.46	262.95	10.51	26.021				
1,700.00	1,699.45	1,630.97	1,619.37	5.80	5.90	-63.90	-56.94	285.75	295.51	284.40	11.11	26.594				
1,800.00	1,798.70	1,719.22	1,703.53	6.14	6.37	-63.69	-69.34	309.21	318.93	307.21	11.72	27.209				
1,900.00	1,897.47	1,806.52	1,785.94	6.49	6.86	-63.76	-82.80	334.66	343.68	331.34	12.34	27.843				
1,969.08	1,965.35	1,866.24	1,841.80	6.75	7.23	-63.93	-92.68	353.35	361.55	348.77	12.79	28.278				
2,000.00	1,995.66	1,893.06	1,866.73	6.86	7.39	-64.17	-97.29	362.07	369.82	356.84	12.99	28.475				
2,100.00	2,093.69	1,989.18	1,955.97	7.25	8.02	-64.94	-113.98	393.65	396.98	383.19	13.79	28.793				
2,200.00	2,191.72	2,085.30	2,045.20	7.65	8.67	-65.60	-130.68	425.22	424.18	409.57	14.61	29.035				
2,300.00	2,289.76	2,181.41	2,134.44	8.07	9.33	-66.19	-147.37	456.80	451.44	435.99	15.45	29.218				
2,400.00	2,387.79	2,277.53	2,223.67	8.49	10.01	-66.71	-164.06	488.37	478.73	462.42	16.31	29.353				
2,500.00	2,485.82	2,373.65	2,312.91	8.91	10.69	-67.17	-180.76	519.95	506.06	488.88	17.18	29.451				
2,600.00	2,583.86	2,469.77	2,402.14	9.35	11.39	-67.58	-197.45	551.53	533.42	515.35	18.07	29.521				
2,700.00	2,681.89	2,565.88	2,491.38	9.79	12.09	-67.96	-214.14	583.10	560.79	541.83	18.97	29.567				
2,800.00	2,779.92	2,662.00	2,580.61	10.24	12.79	-68.30	-230.84	614.68	588.19	568.32	19.87	29.595				
2,900.00	2,877.96	2,758.12	2,669.85	10.69	13.50	-68.61	-247.53	646.25	615.61	594.82	20.79	29.610				
3,000.00	2,975.99	2,854.24	2,759.08	11.14	14.22	-68.89	-264.22	677.83	643.04	621.32	21.71	29.613				
3,100.00	3,074.02	2,950.35	2,848.32	11.60	14.93	-69.15	-280.92	709.40	670.48	647.84	22.65	29.608				
3,200.00	3,172.06	3,046.47	2,937.55	12.06	15.65	-69.39	-297.61	740.98	697.94	674.35	23.58	29.596				
3,300.00	3,270.09	3,142.59	3,026.79	12.52	16.38	-69.61	-314.30	772.56	725.40	700.88	24.52	29.579				
3,400.00	3,368.12	3,238.71	3,116.02	12.98	17.10	-69.82	-331.00	804.13	752.88	727.41	25.47	29.557				
3,500.00	3,466.16	3,334.82	3,205.26	13.45	17.83	-70.01	-347.69	835.71	780.36	753.94	26.42	29.533				
3,600.00	3,564.19	3,430.94	3,294.49	13.92	18.56	-70.19	-364.39	867.28	807.85	780.47	27.38	29.506				
3,700.00	3,662.23	3,527.06	3,383.73	14.39	19.29	-70.36	-381.08	898.86	835.35	807.01	28.34	29.478				
3,800.00	3,760.26	3,623.18	3,472.96	14.86	20.02	-70.51	-397.77	930.43	862.86	833.56	29.30	29.449				
3,900.00	3,858.29	3,719.30	3,562.20	15.34	20.76	-70.66	-414.47	962.01	890.37	860.10	30.27	29.418				
4,000.00	3,956.33	3,815.41	3,651.43	15.81	21.49	-70.79	-431.16	993.59	917.88	886.65	31.23	29.387				
4,100.00	4,054.36	3,911.53	3,740.67	16.29	22.23	-70.92	-447.85	1,025.16	945.40	913.20	32.20	29.356				
4,200.00	4,152.39	4,007.65	3,829.90	16.77	22.97	-71.05	-464.55	1,056.74	972.92	939.75	33.18	29.325				
4,300.00	4,250.43	4,103.77	3,919.14	17.25	23.70	-71.16	-481.24	1,088.31	1,000.45	966.30	34.15	29.294				
4,400.00	4,348.46	4,200.12	4,008.37	17.73	24.44	-71.27	-497.93	1,119.89	1,027.98	992.85	35.13	29.262				
4,500.00	4,446.49	4,304.00	4,097.61	18.21	25.24	-71.37	-514.63	1,151.46	1,055.52	1,019.37	36.15	29.198				
4,600.00	4,544.53	4,407.88	4,186.84	18.69	26.04	-71.47	-531.32	1,183.04	1,083.05	1,045.88	37.17	29.137				
4,700.00	4,642.56	4,488.24	4,276.08	19.17	26.66	-71.57	-548.02	1,214.62	1,110.59	1,072.52	38.07	29.172				
4,800.00	4,740.59	4,584.35	4,365.31	19.65	27.40	-71.65	-564.71	1,246.19	1,138.14	1,099.08	39.05	29.143				
4,900.00	4,838.63	4,680.47	4,454.55	20.13	28.14	-71.74	-581.40	1,277.77	1,165.68	1,125.64	40.04	29.114				
5,000.00	4,936.66	4,776.59	4,543.78	20.62	28.89	-71.82	-598.10	1,309.34	1,193.23	1,152.20	41.02	29.086				

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-20-3N
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-20-3N	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-20-9N - 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						
5,100.00	5,034.69	4,872.71	4,633.02	21.10	29.63	-71.90	-614.79	1,340.92	1,220.78	1,178.77	42.01	29.058						
5,200.00	5,132.73	4,968.82	4,722.25	21.59	30.37	-71.97	-631.48	1,372.50	1,248.33	1,205.33	43.00	29.031						
5,300.00	5,230.76	5,064.94	4,811.49	22.07	31.11	-72.04	-648.18	1,404.07	1,275.88	1,231.89	43.99	29.005						
5,400.00	5,328.79	5,161.06	4,900.72	22.56	31.86	-72.11	-664.87	1,435.65	1,303.44	1,258.46	44.98	28.979						
5,500.00	5,426.83	5,257.18	4,989.96	23.04	32.60	-72.17	-681.56	1,467.22	1,330.99	1,285.02	45.97	28.954						
5,600.00	5,524.86	5,353.29	5,079.19	23.53	33.34	-72.24	-698.26	1,498.80	1,358.55	1,311.59	46.96	28.929						
5,700.00	5,622.89	5,449.41	5,168.43	24.02	34.09	-72.30	-714.95	1,530.37	1,386.11	1,338.16	47.95	28.905						
5,800.00	5,720.93	5,545.53	5,257.66	24.50	34.83	-72.35	-731.65	1,561.95	1,413.67	1,364.72	48.95	28.881						
5,900.00	5,818.96	5,641.65	5,346.90	24.99	35.58	-72.41	-748.34	1,593.53	1,441.23	1,391.29	49.94	28.858						
6,000.00	5,916.99	5,737.76	5,436.13	25.48	36.32	-72.46	-765.03	1,625.10	1,468.80	1,417.86	50.94	28.835						
6,100.00	6,015.03	5,833.88	5,525.37	25.97	37.07	-72.51	-781.73	1,656.68	1,496.36	1,444.43	51.93	28.813						
6,200.00	6,113.06	5,930.00	5,614.60	26.45	37.81	-72.56	-798.42	1,688.25	1,523.93	1,471.00	52.93	28.792						
6,300.00	6,211.09	6,026.12	5,703.84	26.94	38.56	-72.61	-815.11	1,719.83	1,551.49	1,497.57	53.93	28.771						
6,400.00	6,309.13	6,122.24	5,793.07	27.43	39.30	-72.65	-831.81	1,751.40	1,579.06	1,524.14	54.92	28.750						
6,500.00	6,407.16	6,218.35	5,882.31	27.92	40.05	-72.70	-848.50	1,782.98	1,606.63	1,550.71	55.92	28.730						
6,600.00	6,505.19	6,314.47	5,971.54	28.41	40.79	-72.74	-865.19	1,814.56	1,634.20	1,577.28	56.92	28.710						
6,664.73	6,568.65	6,376.69	6,029.31	28.73	41.28	-72.77	-876.00	1,835.00	1,652.05	1,594.48	57.57	28.698						
6,700.00	6,603.27	6,410.57	6,060.76	28.90	41.54	-72.97	-881.88	1,846.13	1,661.83	1,603.92	57.92	28.694						
6,800.00	6,701.84	6,599.38	6,238.03	29.36	42.91	-73.46	-912.22	1,903.50	1,687.85	1,628.14	59.71	28.267						
6,900.00	6,800.94	6,803.49	6,434.01	29.78	44.16	-73.83	-938.80	1,953.79	1,708.87	1,647.52	61.35	27.855						
7,000.00	6,900.45	7,012.15	6,638.02	30.17	45.20	-74.11	-959.17	1,992.31	1,724.61	1,661.92	62.70	27.507						
7,100.00	7,000.24	7,224.15	6,847.98	30.53	46.00	-74.28	-972.70	2,017.90	1,734.91	1,671.19	63.72	27.226						
7,200.00	7,100.19	7,438.10	7,061.47	30.85	46.60	-74.36	-978.96	2,029.74	1,739.63	1,675.21	64.42	27.005						
7,233.81	7,134.00	7,510.64	7,134.00	30.95	46.75	89.39	-979.39	2,030.55	1,739.95	1,675.37	64.58	26.944						
7,300.00	7,200.19	7,576.83	7,200.19	31.12	46.88	89.39	-979.39	2,030.55	1,739.95	1,675.04	64.91	26.804						
7,333.81	7,234.00	7,610.64	7,234.00	31.21	46.94	89.39	-979.39	2,030.55	1,739.95	1,674.87	65.09	26.733						
7,350.00	7,250.18	7,627.06	7,250.41	31.26	46.97	-90.27	-979.62	2,030.55	1,739.95	1,674.77	65.18	26.696						
7,400.00	7,300.04	7,677.77	7,300.97	31.44	47.09	-90.27	-983.32	2,030.58	1,739.95	1,674.44	65.51	26.559						
7,450.00	7,349.39	7,728.47	7,351.00	31.66	47.23	-90.26	-991.46	2,030.63	1,739.95	1,674.03	65.92	26.395						
7,500.00	7,397.87	7,779.15	7,400.10	31.92	47.40	-90.26	-1,003.99	2,030.70	1,739.95	1,673.55	66.40	26.204						
7,550.00	7,445.09	7,829.82	7,447.88	32.22	47.59	-90.25	-1,020.80	2,030.80	1,739.95	1,673.00	66.95	25.988						
7,600.00	7,490.72	7,880.47	7,493.97	32.55	47.80	-90.24	-1,041.75	2,030.93	1,739.95	1,672.38	67.57	25.749						
7,650.00	7,534.38	7,931.09	7,538.00	32.92	48.03	-90.23	-1,066.68	2,031.08	1,739.95	1,671.69	68.26	25.490						
7,700.00	7,575.77	7,981.67	7,579.64	33.32	48.29	-90.21	-1,095.37	2,031.25	1,739.95	1,670.94	69.01	25.212						
7,715.58	7,588.14	7,997.43	7,592.07	33.46	48.37	-90.21	-1,105.05	2,031.31	1,739.95	1,670.69	69.26	25.122						
7,750.00	7,614.55	8,032.22	7,618.56	33.75	48.56	-90.20	-1,127.60	2,031.44	1,739.95	1,670.12	69.83	24.918						
7,800.00	7,650.43	8,082.72	7,654.46	34.22	48.86	-90.18	-1,163.10	2,031.65	1,739.95	1,669.25	70.70	24.610						
7,850.00	7,683.15	8,133.18	7,687.06	34.71	49.17	-90.16	-1,201.58	2,031.88	1,739.95	1,668.32	71.63	24.290						
7,900.00	7,712.45	8,183.58	7,716.13	35.23	49.50	-90.15	-1,242.74	2,032.13	1,739.95	1,667.33	72.62	23.960						
7,950.00	7,738.11	8,233.94	7,741.45	35.78	49.85	-90.13	-1,286.25	2,032.39	1,739.95	1,666.30	73.65	23.624						
8,000.00	7,759.93	8,284.24	7,762.83	36.35	50.22	-90.10	-1,331.77	2,032.67	1,739.95	1,665.23	74.73	23.285						
8,050.00	7,777.75	8,334.48	7,780.11	36.93	50.60	-90.08	-1,378.92	2,032.95	1,739.95	1,664.12	75.84	22.943						
8,100.00	7,791.43	8,384.67	7,793.19	37.53	51.00	-90.06	-1,427.35	2,033.24	1,739.96	1,662.98	76.98	22.603						
8,150.00	7,800.87	8,434.79	7,801.98	38.14	51.41	-90.04	-1,476.68	2,033.53	1,739.96	1,661.82	78.14	22.267						
8,200.00	7,806.00	8,484.85	7,806.42	38.76	51.83	-90.01	-1,526.53	2,033.83	1,739.96	1,660.64	79.32	21.936						
8,233.89	7,807.00	8,518.75	7,807.00	39.18	52.11	-90.00	-1,560.42	2,034.04	1,739.96	1,659.84	80.12	21.717						
8,300.00	7,807.00	8,584.86	7,807.00	40.00	52.69	-90.00	-1,626.53	2,034.43	1,739.97	1,658.26	81.70	21.296						
8,400.00	7,807.00	8,684.86	7,807.00	41.29	53.60	-90.00	-1,726.53	2,035.03	1,739.97	1,655.81	84.16	20.673						
8,500.00	7,806.99	8,784.86	7,807.00	42.60	54.54	-90.00	-1,826.53	2,035.63	1,739.98	1,653.27	86.70	20.069						
8,600.00	7,806.99	8,884.86	7,807.00	43.95	55.53	-90.00	-1,926.52	2,036.23	1,739.98	1,650.67	89.31	19.483						
8,700.00	7,806.99	8,984.86	7,807.00	45.33	56.55	-90.00	-2,026.52	2,036.83	1,739.99	1,648.01	91.97	18.918						
8,800.00	7,806.99	9,084.86	7,806.99	46.74	57.61	-90.00	-2,126.52	2,037.43	1,739.99	1,645.29	94.70	18.374						

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-20-3N
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-20-3N	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	7,806.98	9,184.86	7,806.99	48.17	58.71	-90.00	-2,226.52	2,038.03	1,740.00	1,642.52	97.48	17.850		
9,000.00	7,806.98	9,284.86	7,806.99	49.62	59.84	-90.00	-2,326.52	2,038.63	1,740.00	1,639.70	100.30	17.347		
9,100.00	7,806.98	9,384.86	7,806.99	51.09	61.00	-90.00	-2,426.51	2,039.23	1,740.01	1,636.83	103.18	16.865		
9,200.00	7,806.98	9,484.86	7,806.99	52.59	62.18	-90.00	-2,526.51	2,039.83	1,740.01	1,633.92	106.09	16.402		
9,300.00	7,806.97	9,584.86	7,806.99	54.09	63.40	-90.00	-2,626.51	2,040.43	1,740.02	1,630.98	109.04	15.958		
9,400.00	7,806.97	9,684.86	7,806.99	55.62	64.64	-90.00	-2,726.51	2,041.03	1,740.02	1,628.00	112.02	15.533		
9,500.00	7,806.97	9,784.86	7,806.99	57.16	65.91	-90.00	-2,826.51	2,041.63	1,740.03	1,624.99	115.04	15.126		
9,600.00	7,806.97	9,884.86	7,806.99	58.71	67.20	-90.00	-2,926.51	2,042.23	1,740.03	1,621.95	118.08	14.736		
9,700.00	7,806.96	9,984.86	7,806.98	60.27	68.52	-90.00	-3,026.50	2,042.82	1,740.04	1,618.88	121.15	14.362		
9,800.00	7,806.96	10,084.86	7,806.98	61.84	69.85	-90.00	-3,126.50	2,043.42	1,740.04	1,615.79	124.25	14.004		
9,900.00	7,806.96	10,184.86	7,806.98	63.43	71.21	-90.00	-3,226.50	2,044.02	1,740.05	1,612.68	127.37	13.661		
10,000.00	7,806.96	10,284.86	7,806.98	65.02	72.58	-90.00	-3,326.50	2,044.62	1,740.05	1,609.54	130.51	13.332		
10,100.00	7,806.95	10,384.86	7,806.98	66.63	73.97	-90.00	-3,426.50	2,045.22	1,740.06	1,606.38	133.67	13.017		
10,200.00	7,806.95	10,484.86	7,806.98	68.24	75.38	-90.00	-3,526.49	2,045.82	1,740.06	1,603.21	136.86	12.715		
10,300.00	7,806.95	10,584.86	7,806.98	69.86	76.81	-90.00	-3,626.49	2,046.42	1,740.07	1,600.01	140.06	12.424		
10,400.00	7,806.95	10,684.86	7,806.98	71.49	78.25	-90.00	-3,726.49	2,047.02	1,740.07	1,596.80	143.27	12.145		
10,500.00	7,806.94	10,784.86	7,806.98	73.12	79.70	-90.00	-3,826.49	2,047.62	1,740.08	1,593.58	146.50	11.878		
10,600.00	7,806.94	10,884.86	7,806.98	74.76	81.16	-90.00	-3,926.49	2,048.22	1,740.08	1,590.34	149.75	11.620		
10,700.00	7,806.94	10,984.86	7,806.97	76.41	82.64	-90.00	-4,026.49	2,048.82	1,740.09	1,587.08	153.00	11.373		
10,800.00	7,806.94	11,084.86	7,806.97	78.06	84.13	-90.00	-4,126.48	2,049.42	1,740.09	1,583.82	156.27	11.135		
10,900.00	7,806.93	11,184.86	7,806.97	79.72	85.64	-90.00	-4,226.48	2,050.02	1,740.10	1,580.54	159.56	10.906		
11,000.00	7,806.93	11,284.86	7,806.97	81.38	87.15	-90.00	-4,326.48	2,050.62	1,740.10	1,577.25	162.85	10.685		
11,100.00	7,806.93	11,384.86	7,806.97	83.05	88.67	-90.00	-4,426.48	2,051.22	1,740.11	1,573.96	166.15	10.473		
11,200.00	7,806.93	11,484.86	7,806.97	84.72	90.20	-90.00	-4,526.48	2,051.82	1,740.11	1,570.65	169.47	10.268		
11,300.00	7,806.92	11,584.86	7,806.97	86.39	91.74	-90.00	-4,626.47	2,052.42	1,740.12	1,567.33	172.79	10.071		
11,400.00	7,806.92	11,684.86	7,806.97	88.07	93.29	-90.00	-4,726.47	2,053.02	1,740.12	1,564.00	176.12	9.880		
11,500.00	7,806.92	11,784.86	7,806.97	89.75	94.85	-90.00	-4,826.47	2,053.61	1,740.13	1,560.67	179.46	9.696		
11,600.00	7,806.92	11,884.86	7,806.96	91.44	96.42	-90.00	-4,926.47	2,054.21	1,740.13	1,557.33	182.81	9.519		
11,700.00	7,806.91	11,984.86	7,806.96	93.13	97.99	-90.00	-5,026.47	2,054.81	1,740.14	1,553.98	186.16	9.347		
11,800.00	7,806.91	12,084.86	7,806.96	94.82	99.57	-90.00	-5,126.47	2,055.41	1,740.14	1,550.62	189.53	9.182		
11,900.00	7,806.91	12,184.86	7,806.96	96.52	101.15	-90.00	-5,226.46	2,056.01	1,740.15	1,547.26	192.89	9.021		
12,000.00	7,806.91	12,284.86	7,806.96	98.21	102.75	-90.00	-5,326.46	2,056.61	1,740.15	1,543.89	196.27	8.866		
12,100.00	7,806.90	12,384.86	7,806.96	99.91	104.35	-90.00	-5,426.46	2,057.21	1,740.16	1,540.51	199.65	8.716		
12,200.00	7,806.90	12,484.86	7,806.96	101.62	105.95	-90.00	-5,526.46	2,057.81	1,740.17	1,537.13	203.04	8.571		
12,300.00	7,806.90	12,584.86	7,806.96	103.32	107.56	-90.00	-5,626.46	2,058.41	1,740.17	1,533.74	206.43	8.430		
12,400.00	7,806.90	12,684.86	7,806.96	105.03	109.18	-90.00	-5,726.46	2,059.01	1,740.18	1,530.35	209.82	8.294		
12,500.00	7,806.89	12,784.86	7,806.95	106.74	110.80	-90.00	-5,826.45	2,059.61	1,740.18	1,526.95	213.23	8.161		
12,600.00	7,806.89	12,884.86	7,806.95	108.45	112.42	-90.00	-5,926.45	2,060.21	1,740.19	1,523.55	216.63	8.033		
12,700.00	7,806.89	12,984.86	7,806.95	110.17	114.05	-90.00	-6,026.45	2,060.81	1,740.19	1,520.15	220.04	7.908		
12,800.00	7,806.89	13,084.86	7,806.95	111.88	115.68	-90.00	-6,126.45	2,061.41	1,740.20	1,516.74	223.46	7.788		
12,900.00	7,806.88	13,184.86	7,806.95	113.60	117.32	-90.00	-6,226.45	2,062.01	1,740.20	1,513.32	226.88	7.670		
13,000.00	7,806.88	13,284.86	7,806.95	115.32	118.96	-90.00	-6,326.44	2,062.61	1,740.21	1,509.91	230.30	7.556		
13,100.00	7,806.88	13,384.86	7,806.95	117.04	120.61	-90.00	-6,426.44	2,063.21	1,740.21	1,506.49	233.73	7.446		
13,200.00	7,806.88	13,484.86	7,806.95	118.76	122.26	-90.00	-6,526.44	2,063.81	1,740.22	1,503.06	237.16	7.338		
13,300.00	7,806.87	13,584.86	7,806.95	120.48	123.91	-90.00	-6,626.44	2,064.40	1,740.22	1,499.63	240.59	7.233		
13,400.00	7,806.87	13,684.86	7,806.95	122.21	125.57	-90.00	-6,726.44	2,065.00	1,740.23	1,496.20	244.03	7.131		
13,500.00	7,806.87	13,784.86	7,806.94	123.94	127.23	-90.00	-6,826.44	2,065.60	1,740.23	1,492.77	247.47	7.032		
13,600.00	7,806.87	13,884.86	7,806.94	125.66	128.89	-90.00	-6,926.43	2,066.20	1,740.24	1,489.33	250.91	6.936		
13,700.00	7,806.86	13,984.86	7,806.94	127.39	130.56	-90.00	-7,026.43	2,066.80	1,740.24	1,485.89	254.35	6.842		
13,800.00	7,806.86	14,084.86	7,806.94	129.12	132.22	-90.00	-7,126.43	2,067.40	1,740.25	1,482.45	257.80	6.750		
13,900.00	7,806.86	14,184.86	7,806.94	130.85	133.90	-90.00	-7,226.43	2,068.00	1,740.25	1,479.00	261.25	6.661		
14,000.00	7,806.86	14,284.86	7,806.94	132.59	135.57	-90.00	-7,326.43	2,068.60	1,740.26	1,475.55	264.71	6.574		

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-20-3N
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-20-3N	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	7,806.85	14,384.86	7,806.94	134.32	137.25	-90.00	-7,426.42	2,069.20	1,740.26	1,472.10	268.16	6.490		
14,200.00	7,806.85	14,484.86	7,806.94	136.06	138.93	-90.00	-7,526.42	2,069.80	1,740.27	1,468.65	271.62	6.407		
14,300.00	7,806.85	14,584.86	7,806.94	137.79	140.61	-90.00	-7,626.42	2,070.40	1,740.27	1,465.19	275.08	6.326		
14,400.00	7,806.85	14,684.86	7,806.93	139.53	142.29	-90.00	-7,726.42	2,071.00	1,740.28	1,461.74	278.54	6.248		
14,500.00	7,806.84	14,784.86	7,806.93	141.27	143.98	-90.00	-7,826.42	2,071.60	1,740.28	1,458.28	282.01	6.171		
14,600.00	7,806.84	14,884.86	7,806.93	143.00	145.66	-90.00	-7,926.42	2,072.20	1,740.29	1,454.81	285.47	6.096		
14,700.00	7,806.84	14,984.86	7,806.93	144.74	147.35	-90.00	-8,026.41	2,072.80	1,740.29	1,451.35	288.94	6.023		
14,800.00	7,806.84	15,084.86	7,806.93	146.48	149.05	-90.00	-8,126.41	2,073.40	1,740.30	1,447.89	292.41	5.952		
14,900.00	7,806.83	15,184.86	7,806.93	148.22	150.74	-90.00	-8,226.41	2,074.00	1,740.30	1,444.42	295.88	5.882		
15,000.00	7,806.83	15,284.86	7,806.93	149.97	152.44	-90.00	-8,326.41	2,074.60	1,740.31	1,440.95	299.36	5.813		
15,100.00	7,806.83	15,384.86	7,806.93	151.71	154.13	-90.00	-8,426.41	2,075.19	1,740.31	1,437.48	302.83	5.747		
15,200.00	7,806.83	15,484.86	7,806.93	153.45	155.83	-90.00	-8,526.40	2,075.79	1,740.32	1,434.01	306.31	5.682		
15,300.00	7,806.82	15,584.86	7,806.93	155.19	157.53	-90.00	-8,626.40	2,076.39	1,740.32	1,430.53	309.79	5.618		
15,400.00	7,806.82	15,684.86	7,806.92	156.94	159.24	-90.00	-8,726.40	2,076.99	1,740.33	1,427.06	313.27	5.555		
15,500.00	7,806.82	15,784.86	7,806.92	158.68	160.94	-90.00	-8,826.40	2,077.59	1,740.33	1,423.58	316.75	5.494		
15,600.00	7,806.82	15,884.86	7,806.92	160.43	162.64	-90.00	-8,926.40	2,078.19	1,740.34	1,420.10	320.24	5.435		
15,700.00	7,806.81	15,984.86	7,806.92	162.18	164.35	-90.00	-9,026.40	2,078.79	1,740.34	1,416.62	323.72	5.376		
15,800.00	7,806.81	16,084.86	7,806.92	163.92	166.06	-90.00	-9,126.39	2,079.39	1,740.35	1,413.14	327.21	5.319		
15,900.00	7,806.81	16,184.86	7,806.92	165.67	167.77	-90.00	-9,226.39	2,079.99	1,740.35	1,409.66	330.69	5.263		
16,000.00	7,806.81	16,284.86	7,806.92	167.42	169.48	-90.00	-9,326.39	2,080.59	1,740.36	1,406.18	334.18	5.208		
16,100.00	7,806.80	16,384.86	7,806.92	169.17	171.19	-90.00	-9,426.39	2,081.19	1,740.36	1,402.69	337.67	5.154		
16,200.00	7,806.80	16,484.86	7,806.92	170.91	172.91	-90.00	-9,526.39	2,081.79	1,740.37	1,399.21	341.16	5.101		
16,300.00	7,806.80	16,584.86	7,806.91	172.66	174.62	-90.00	-9,626.39	2,082.39	1,740.38	1,395.72	344.65	5.050		
16,400.00	7,806.80	16,684.86	7,806.91	174.41	176.34	-90.00	-9,726.38	2,082.99	1,740.38	1,392.23	348.15	4.999		
16,500.00	7,806.79	16,784.86	7,806.91	176.16	178.05	-90.00	-9,826.38	2,083.59	1,740.39	1,388.74	351.64	4.949		
16,600.00	7,806.79	16,884.86	7,806.91	177.92	179.77	-90.00	-9,926.38	2,084.19	1,740.39	1,385.25	355.14	4.901		
16,700.00	7,806.79	16,984.86	7,806.91	179.67	181.49	-90.00	-10,026.38	2,084.79	1,740.40	1,381.76	358.63	4.853		
16,800.00	7,806.79	17,084.86	7,806.91	181.42	183.21	-90.00	-10,126.38	2,085.39	1,740.40	1,378.27	362.13	4.806		
16,900.00	7,806.78	17,184.86	7,806.91	183.17	184.93	-90.00	-10,226.37	2,085.98	1,740.41	1,374.78	365.63	4.760		
17,000.00	7,806.78	17,284.86	7,806.91	184.92	186.66	-90.00	-10,326.37	2,086.58	1,740.41	1,371.29	369.13	4.715		
17,100.00	7,806.78	17,384.86	7,806.91	186.68	188.38	-90.00	-10,426.37	2,087.18	1,740.42	1,367.79	372.63	4.671		
17,200.00	7,806.78	17,484.86	7,806.91	188.43	190.10	-90.00	-10,526.37	2,087.78	1,740.42	1,364.29	376.13	4.627		
17,300.00	7,806.77	17,584.86	7,806.90	190.18	191.83	-90.00	-10,626.37	2,088.38	1,740.43	1,360.80	379.63	4.585		
17,400.00	7,806.77	17,684.86	7,806.90	191.94	193.56	-90.00	-10,726.37	2,088.98	1,740.43	1,357.30	383.13	4.543		
17,500.00	7,806.77	17,784.86	7,806.90	193.69	195.28	-90.00	-10,826.36	2,089.58	1,740.44	1,353.80	386.63	4.502		
17,600.00	7,806.77	17,884.86	7,806.90	195.45	197.01	-90.00	-10,926.36	2,090.18	1,740.44	1,350.30	390.14	4.461		
17,700.00	7,806.76	17,984.86	7,806.90	197.20	198.74	-90.00	-11,026.36	2,090.78	1,740.45	1,346.80	393.64	4.421		
17,800.00	7,806.76	18,084.86	7,806.90	198.96	200.47	-90.00	-11,126.36	2,091.38	1,740.45	1,343.30	397.15	4.382		
17,877.44	7,807.00	18,156.22	7,806.97	200.32	201.70	-90.00	-11,197.72	2,092.00	1,740.59	1,340.72	399.87	4.353 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-32.23	3,178.97	-2,003.94	3,757.88					
100.00	100.00	100.00	100.00	0.13	1.20	-32.23	3,178.97	-2,003.94	3,757.88	3,756.55	1.33	2,819.855		
200.00	200.00	200.00	200.00	0.49	3.49	-32.23	3,178.97	-2,003.94	3,757.88	3,753.90	3.98	944.007		
300.00	300.00	300.00	300.00	0.85	5.57	-32.23	3,178.97	-2,003.94	3,757.88	3,751.46	6.42	585.561		
400.00	400.00	400.00	400.00	1.21	7.61	-32.23	3,178.97	-2,003.94	3,757.88	3,749.06	8.82	426.149		
500.00	500.00	500.00	500.00	1.57	9.64	-32.23	3,178.97	-2,003.94	3,757.88	3,746.67	11.21	335.353		
600.00	600.00	600.00	600.00	1.93	11.66	-32.23	3,178.97	-2,003.94	3,757.88	3,744.29	13.59	276.579		
700.00	700.00	700.00	700.00	2.29	13.68	-32.23	3,178.97	-2,003.94	3,757.88	3,741.91	15.96	235.386		
800.00	800.00	800.00	800.00	2.64	15.70	-32.23	3,178.97	-2,003.94	3,757.88	3,739.54	18.34	204.896		
900.00	900.00	900.00	900.00	3.00	17.71	-32.23	3,178.97	-2,003.94	3,757.88	3,737.16	20.71	181.412		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	19.73	-32.23	3,178.97	-2,003.94	3,757.88	3,734.79	23.09	162.765		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	21.74	-32.23	3,178.97	-2,003.94	3,757.88	3,732.42	25.46	147.597		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	23.75	-32.23	3,178.97	-2,003.94	3,757.88	3,730.05	27.83	135.019		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	25.77	-32.23	3,178.97	-2,003.94	3,757.88	3,727.67	30.20	124.417		
1,400.00	1,400.00	1,400.00	1,400.00	4.79	27.78	-32.23	3,178.97	-2,003.94	3,757.88	3,725.30	32.58	115.360 CC		
1,500.00	1,499.98	1,500.02	1,499.98	5.14	29.79	164.01	3,178.97	-2,003.94	3,759.56	3,724.63	34.93	107.634 ES		
1,600.00	1,599.84	1,600.16	1,599.84	5.46	31.81	164.01	3,178.97	-2,003.94	3,764.59	3,727.32	37.27	101.005		
1,700.00	1,699.45	1,700.55	1,699.45	5.80	33.83	164.00	3,178.97	-2,003.94	3,772.97	3,733.34	39.62	95.223		
1,800.00	1,798.70	1,801.30	1,798.70	6.14	35.86	163.98	3,178.97	-2,003.94	3,784.69	3,742.70	41.98	90.146		
1,900.00	1,897.47	1,902.53	1,897.47	6.49	37.89	163.97	3,178.97	-2,003.94	3,799.74	3,755.38	44.36	85.659		
1,969.08	1,965.35	1,965.35	1,965.35	6.75	39.16	163.95	3,178.97	-2,003.94	3,812.07	3,766.21	45.86	83.127		
2,000.00	1,995.66	2,004.34	1,995.66	6.86	39.94	163.97	3,178.97	-2,003.94	3,817.94	3,771.19	46.75	81.669		
2,100.00	2,093.69	2,106.31	2,093.69	7.25	41.99	164.06	3,178.97	-2,003.94	3,836.94	3,787.80	49.14	78.079		
2,200.00	2,191.72	2,208.28	2,191.72	7.65	44.04	164.14	3,178.97	-2,003.94	3,855.95	3,804.41	51.54	74.817		
2,300.00	2,289.76	2,289.76	2,289.76	8.07	45.68	164.22	3,178.97	-2,003.94	3,874.96	3,821.43	53.53	72.392		
2,400.00	2,387.79	2,387.79	2,387.79	8.49	47.65	164.29	3,178.97	-2,003.94	3,893.98	3,838.13	55.85	69.719		
2,500.00	2,485.82	2,485.82	2,485.82	8.91	49.63	164.37	3,178.97	-2,003.94	3,913.01	3,854.83	58.18	67.256		
2,600.00	2,583.86	2,583.86	2,583.86	9.35	51.60	164.45	3,178.97	-2,003.94	3,932.05	3,871.54	60.51	64.981		
2,700.00	2,681.89	2,681.89	2,681.89	9.79	53.57	164.53	3,178.97	-2,003.94	3,951.09	3,888.25	62.84	62.871		
2,800.00	2,779.92	2,779.92	2,779.92	10.24	55.54	164.60	3,178.97	-2,003.94	3,970.14	3,904.96	65.18	60.912		
2,900.00	2,877.96	2,877.96	2,877.96	10.69	57.51	164.68	3,178.97	-2,003.94	3,989.19	3,921.68	67.52	59.086		
3,000.00	2,975.99	2,975.99	2,975.99	11.14	59.49	164.75	3,178.97	-2,003.94	4,008.26	3,938.40	69.85	57.381		
3,100.00	3,074.02	3,074.02	3,074.02	11.60	61.46	164.83	3,178.97	-2,003.94	4,027.32	3,955.13	72.19	55.786		
3,200.00	3,172.06	3,172.06	3,172.06	12.06	63.43	164.90	3,178.97	-2,003.94	4,046.40	3,971.87	74.53	54.290		
3,300.00	3,270.09	3,270.09	3,270.09	12.52	65.40	164.97	3,178.97	-2,003.94	4,065.48	3,988.61	76.87	52.884		
3,400.00	3,368.12	3,368.12	3,368.12	12.98	67.37	165.04	3,178.97	-2,003.94	4,084.57	4,005.35	79.22	51.561		
3,500.00	3,466.16	3,466.16	3,466.16	13.45	69.34	165.11	3,178.97	-2,003.94	4,103.66	4,022.10	81.56	50.314		
3,600.00	3,564.19	3,564.19	3,564.19	13.92	71.32	165.18	3,178.97	-2,003.94	4,122.76	4,038.86	83.91	49.136		
3,700.00	3,662.23	3,662.23	3,662.23	14.39	73.29	165.25	3,178.97	-2,003.94	4,141.87	4,055.62	86.25	48.021		
3,800.00	3,760.26	3,760.26	3,760.26	14.86	75.26	165.32	3,178.97	-2,003.94	4,160.98	4,072.38	88.60	46.966		
3,900.00	3,858.29	3,858.29	3,858.29	15.34	77.23	165.39	3,178.97	-2,003.94	4,180.10	4,089.15	90.94	45.964		
4,000.00	3,956.33	3,956.33	3,956.33	15.81	79.20	165.46	3,178.97	-2,003.94	4,199.22	4,105.93	93.29	45.013		
4,100.00	4,054.36	4,054.36	4,054.36	16.29	81.17	165.53	3,178.97	-2,003.94	4,218.35	4,122.71	95.64	44.108		
4,200.00	4,152.39	4,152.39	4,152.39	16.77	83.15	165.59	3,178.97	-2,003.94	4,237.48	4,139.50	97.98	43.247		
4,300.00	4,250.43	4,250.43	4,250.43	17.25	85.12	165.66	3,178.97	-2,003.94	4,256.62	4,156.29	100.33	42.425		
4,400.00	4,348.46	4,348.46	4,348.46	17.73	87.09	165.72	3,178.97	-2,003.94	4,275.77	4,173.08	102.68	41.641		
4,500.00	4,446.49	4,446.49	4,446.49	18.21	89.06	165.79	3,178.97	-2,003.94	4,294.92	4,189.89	105.03	40.892		
4,600.00	4,544.53	4,544.53	4,544.53	18.69	91.03	165.85	3,178.97	-2,003.94	4,314.07	4,206.69	107.38	40.176		
4,700.00	4,642.56	4,642.56	4,642.56	19.17	93.00	165.92	3,178.97	-2,003.94	4,333.23	4,223.50	109.73	39.490		
4,800.00	4,740.59	4,740.59	4,740.59	19.65	94.97	165.98	3,178.97	-2,003.94	4,352.40	4,240.32	112.08	38.834		
4,900.00	4,838.63	4,838.63	4,838.63	20.13	96.95	166.04	3,178.97	-2,003.94	4,371.57	4,257.14	114.43	38.204		
5,000.00	4,936.66	4,936.66	4,936.66	20.62	98.92	166.11	3,178.97	-2,003.94	4,390.75	4,273.97	116.78	37.599		

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-20-3N
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-20-3N	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	5,034.69	5,034.69	5,034.69	21.10	100.89	166.17	3,178.97	-2,003.94	4,409.93	4,290.80	119.13	37.018		
5,200.00	5,132.73	5,132.73	5,132.73	21.59	102.86	166.23	3,178.97	-2,003.94	4,429.11	4,307.63	121.48	36.460		
5,300.00	5,230.76	5,230.76	5,230.76	22.07	104.83	166.29	3,178.97	-2,003.94	4,448.30	4,324.47	123.83	35.923		
5,400.00	5,328.79	5,328.79	5,328.79	22.56	106.80	166.35	3,178.97	-2,003.94	4,467.50	4,341.32	126.18	35.405		
5,500.00	5,426.83	5,426.83	5,426.83	23.04	108.78	166.41	3,178.97	-2,003.94	4,486.70	4,358.17	128.53	34.907		
5,600.00	5,524.86	5,524.86	5,524.86	23.53	110.75	166.47	3,178.97	-2,003.94	4,505.90	4,375.02	130.88	34.427		
5,700.00	5,622.89	5,622.89	5,622.89	24.02	112.72	166.53	3,178.97	-2,003.94	4,525.11	4,391.88	133.23	33.963		
5,800.00	5,720.93	5,720.93	5,720.93	24.50	114.69	166.58	3,178.97	-2,003.94	4,544.33	4,408.74	135.59	33.516		
5,900.00	5,818.96	5,818.96	5,818.96	24.99	116.66	166.64	3,178.97	-2,003.94	4,563.54	4,425.61	137.94	33.084		
6,000.00	5,916.99	5,916.99	5,916.99	25.48	118.63	166.70	3,178.97	-2,003.94	4,582.77	4,442.48	140.29	32.666		
6,100.00	6,015.03	6,015.03	6,015.03	25.97	120.60	166.75	3,178.97	-2,003.94	4,601.99	4,459.35	142.64	32.263		
6,200.00	6,113.06	6,113.06	6,113.06	26.45	122.58	166.81	3,178.97	-2,003.94	4,621.22	4,476.23	144.99	31.872		
6,300.00	6,211.09	6,211.09	6,211.09	26.94	124.55	166.87	3,178.97	-2,003.94	4,640.46	4,493.11	147.35	31.494		
6,400.00	6,309.13	6,309.13	6,309.13	27.43	126.52	166.92	3,178.97	-2,003.94	4,659.70	4,510.00	149.70	31.127		
6,500.00	6,407.16	6,407.16	6,407.16	27.92	128.49	166.98	3,178.97	-2,003.94	4,678.94	4,526.89	152.05	30.772		
6,600.00	6,505.19	6,505.19	6,505.19	28.41	130.46	167.03	3,178.97	-2,003.94	4,698.19	4,543.79	154.40	30.428		
6,664.73	6,568.65	6,568.65	6,568.65	28.73	131.74	167.06	3,178.97	-2,003.94	4,710.65	4,554.73	155.93	30.211		
6,700.00	6,603.27	6,603.27	6,603.27	28.90	132.43	167.11	3,178.97	-2,003.94	4,717.23	4,560.48	156.75	30.093		
6,800.00	6,701.84	6,701.84	6,701.84	29.36	134.42	167.23	3,178.97	-2,003.94	4,733.63	4,574.52	159.11	29.750		
6,900.00	6,800.94	6,800.94	6,800.94	29.78	136.41	167.32	3,178.97	-2,003.94	4,746.67	4,585.20	161.47	29.396		
7,000.00	6,900.45	6,900.45	6,900.45	30.17	138.41	167.39	3,178.97	-2,003.94	4,756.32	4,592.49	163.83	29.031		
7,100.00	7,000.24	7,000.24	7,000.24	30.53	140.42	167.44	3,178.97	-2,003.94	4,762.58	4,596.39	166.19	28.657		
7,200.00	7,100.19	7,100.19	7,100.19	30.85	142.43	167.46	3,178.97	-2,003.94	4,765.43	4,596.89	168.55	28.274		
7,233.81	7,134.00	7,134.00	7,134.00	30.95	143.11	-28.78	3,178.97	-2,003.94	4,765.63	4,596.29	169.34	28.143		
7,300.00	7,200.19	7,200.19	7,200.19	31.12	144.44	-28.78	3,178.97	-2,003.94	4,765.63	4,594.75	170.88	27.889		
7,333.81	7,234.00	7,234.00	7,234.00	31.21	145.12	-28.78	3,178.97	-2,003.94	4,765.63	4,593.97	171.66	27.762		
7,350.00	7,250.18	7,250.18	7,250.18	31.26	145.44	151.55	3,178.97	-2,003.94	4,765.83	4,593.79	172.04	27.702		
7,400.00	7,300.04	7,300.04	7,300.04	31.44	146.45	151.42	3,178.97	-2,003.94	4,768.99	4,595.77	173.22	27.531		
7,450.00	7,349.39	7,349.39	7,349.39	31.66	147.44	151.13	3,178.97	-2,003.94	4,775.96	4,601.55	174.41	27.384		
7,500.00	7,397.87	7,402.13	7,397.87	31.92	148.50	150.66	3,178.97	-2,003.94	4,786.69	4,611.02	175.67	27.249		
7,550.00	7,445.09	7,445.09	7,445.09	32.22	149.36	150.01	3,178.97	-2,003.94	4,801.10	4,624.37	176.74	27.165		
7,600.00	7,490.72	7,509.29	7,490.72	32.55	150.65	149.15	3,178.97	-2,003.94	4,819.11	4,640.87	178.24	27.037		
7,650.00	7,534.38	7,534.38	7,534.38	32.92	151.16	148.06	3,178.97	-2,003.94	4,840.58	4,661.63	178.95	27.049		
7,700.00	7,575.77	7,575.77	7,575.77	33.32	151.99	146.69	3,178.97	-2,003.94	4,865.36	4,685.36	180.00	27.030 SF		
7,750.00	7,614.55	7,614.55	7,614.55	33.75	152.77	144.99	3,178.97	-2,003.94	4,893.27	4,712.29	180.98	27.037		
7,800.00	7,650.43	7,650.43	7,650.43	34.22	153.49	142.90	3,178.97	-2,003.94	4,924.12	4,742.22	181.90	27.070		
7,850.00	7,683.15	7,683.15	7,683.15	34.71	154.15	140.33	3,178.97	-2,003.94	4,957.69	4,774.94	182.75	27.128		
7,900.00	7,712.45	7,712.45	7,712.45	35.23	154.74	137.16	3,178.97	-2,003.94	4,993.73	4,810.21	183.52	27.211		
7,950.00	7,738.11	7,738.11	7,738.11	35.78	155.26	133.25	3,178.97	-2,003.94	5,031.97	4,847.77	184.20	27.318		
8,000.00	7,759.93	7,759.93	7,759.93	36.35	155.69	128.42	3,178.97	-2,003.94	5,072.15	4,887.36	184.79	27.448		
8,050.00	7,777.75	7,777.75	7,777.75	36.93	156.05	122.49	3,178.97	-2,003.94	5,113.96	4,928.66	185.29	27.600		
8,100.00	7,791.43	7,808.57	7,791.43	37.53	156.67	115.28	3,178.97	-2,003.94	5,157.08	4,971.05	186.03	27.721		
8,150.00	7,800.87	7,800.87	7,800.87	38.14	156.52	106.74	3,178.97	-2,003.94	5,201.20	5,015.21	185.99	27.965		
8,200.00	7,806.00	7,806.00	7,806.00	38.76	156.62	97.02	3,178.97	-2,003.94	5,245.98	5,059.80	186.18	28.176		
8,233.89	7,807.00	7,807.00	7,807.00	39.18	156.64	90.00	3,178.97	-2,003.94	5,276.54	5,090.28	186.26	28.329		
8,300.00	7,807.00	7,807.00	7,807.00	40.00	156.64	90.00	3,178.97	-2,003.94	5,336.29	5,149.93	186.36	28.634		
8,400.00	7,807.00	7,807.00	7,807.00	41.29	156.64	90.00	3,178.97	-2,003.94	5,426.96	5,240.45	186.52	29.096		
8,500.00	7,806.99	7,806.99	7,806.99	42.60	156.64	90.00	3,178.97	-2,003.94	5,517.95	5,331.28	186.68	29.559		
8,600.00	7,806.99	7,806.99	7,806.99	43.95	156.64	90.00	3,178.97	-2,003.94	5,609.25	5,422.41	186.84	30.022		
8,700.00	7,806.99	7,806.99	7,806.99	45.33	156.64	90.00	3,178.97	-2,003.94	5,700.84	5,513.84	187.01	30.485		
8,800.00	7,806.99	7,806.99	7,806.99	46.74	156.64	90.00	3,178.97	-2,003.94	5,792.71	5,605.54	187.18	30.948		
8,900.00	7,806.98	7,806.98	7,806.98	48.17	156.64	90.00	3,178.97	-2,003.94	5,884.85	5,697.50	187.35	31.412		

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-20-3N
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-20-3N	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	7,806.98	7,806.98	7,806.98	49.62	156.64	90.00	3,178.97	-2,003.94	5,977.23	5,789.72	187.52	31.876	
9,100.00	7,806.98	7,806.98	7,806.98	51.09	156.64	90.00	3,178.97	-2,003.94	6,069.86	5,882.17	187.69	32.340	
9,200.00	7,806.98	7,806.98	7,806.98	52.59	156.64	90.00	3,178.97	-2,003.94	6,162.72	5,974.86	187.86	32.805	
9,300.00	7,806.97	7,806.97	7,806.97	54.09	156.64	90.00	3,178.97	-2,003.94	6,255.80	6,067.77	188.03	33.270	
9,400.00	7,806.97	7,806.97	7,806.97	55.62	156.64	90.00	3,178.97	-2,003.94	6,349.09	6,160.88	188.21	33.735	
9,500.00	7,806.97	7,806.97	7,806.97	57.16	156.64	90.00	3,178.97	-2,003.94	6,442.58	6,254.20	188.38	34.200	
9,600.00	7,806.97	7,806.97	7,806.97	58.71	156.64	90.00	3,178.97	-2,003.94	6,536.26	6,347.71	188.55	34.666	
9,700.00	7,806.96	7,806.96	7,806.96	60.27	156.64	90.00	3,178.97	-2,003.94	6,630.13	6,441.41	188.72	35.132	
9,800.00	7,806.96	7,806.96	7,806.96	61.84	156.64	90.00	3,178.97	-2,003.94	6,724.18	6,535.29	188.89	35.598	
9,900.00	7,806.96	7,806.96	7,806.96	63.43	156.64	90.00	3,178.97	-2,003.94	6,818.39	6,629.33	189.06	36.065	
10,000.00	7,806.96	7,806.96	7,806.96	65.02	156.64	90.00	3,178.97	-2,003.94	6,912.77	6,723.54	189.23	36.531	
10,100.00	7,806.95	7,806.95	7,806.95	66.63	156.64	90.00	3,178.97	-2,003.94	7,007.30	6,817.90	189.40	36.998	
10,200.00	7,806.95	7,806.95	7,806.95	68.24	156.64	90.00	3,178.97	-2,003.94	7,101.98	6,912.42	189.56	37.465	
10,300.00	7,806.95	7,806.95	7,806.95	69.86	156.64	90.00	3,178.97	-2,003.94	7,196.81	7,007.08	189.73	37.933	
10,400.00	7,806.95	7,806.95	7,806.95	71.49	156.64	90.00	3,178.97	-2,003.94	7,291.77	7,101.88	189.89	38.400	
10,500.00	7,806.94	7,806.94	7,806.94	73.12	156.64	90.00	3,178.97	-2,003.94	7,386.87	7,196.82	190.05	38.867	
10,600.00	7,806.94	7,806.94	7,806.94	74.76	156.64	90.00	3,178.97	-2,003.94	7,482.10	7,291.88	190.21	39.335	
10,700.00	7,806.94	7,806.94	7,806.94	76.41	156.64	90.00	3,178.97	-2,003.94	7,577.44	7,387.07	190.37	39.803	
10,800.00	7,806.94	7,806.94	7,806.94	78.06	156.64	90.00	3,178.97	-2,003.94	7,672.91	7,482.38	190.53	40.271	
10,900.00	7,806.93	7,806.93	7,806.93	79.72	156.64	90.00	3,178.97	-2,003.94	7,768.49	7,577.80	190.69	40.739	
11,000.00	7,806.93	7,806.93	7,806.93	81.38	156.64	90.00	3,178.97	-2,003.94	7,864.18	7,673.34	190.85	41.207	
11,100.00	7,806.93	7,806.93	7,806.93	83.05	156.64	90.00	3,178.97	-2,003.94	7,959.98	7,768.98	191.00	41.675	
11,200.00	7,806.93	7,806.93	7,806.93	84.72	156.64	90.00	3,178.97	-2,003.94	8,055.88	7,864.73	191.15	42.144	
11,300.00	7,806.92	7,806.92	7,806.92	86.39	156.64	90.00	3,178.97	-2,003.94	8,151.88	7,960.57	191.30	42.612	
11,400.00	7,806.92	7,806.92	7,806.92	88.07	156.64	90.00	3,178.97	-2,003.94	8,247.97	8,056.51	191.46	43.080	
11,500.00	7,806.92	7,806.92	7,806.92	89.75	156.64	89.99	3,178.97	-2,003.94	8,344.15	8,152.55	191.60	43.549	
11,600.00	7,806.92	7,806.92	7,806.92	91.44	156.64	89.99	3,178.97	-2,003.94	8,440.43	8,248.67	191.75	44.017	
11,700.00	7,806.91	7,806.91	7,806.91	93.13	156.64	89.99	3,178.97	-2,003.94	8,536.78	8,344.88	191.90	44.486	
11,800.00	7,806.91	7,806.91	7,806.91	94.82	156.64	89.99	3,178.97	-2,003.94	8,633.23	8,441.18	192.04	44.954	
11,900.00	7,806.91	7,806.91	7,806.91	96.52	156.64	89.99	3,178.97	-2,003.94	8,729.75	8,537.56	192.19	45.423	
12,000.00	7,806.91	7,806.91	7,806.91	98.21	156.64	89.99	3,178.97	-2,003.94	8,826.35	8,634.01	192.33	45.891	
12,100.00	7,806.90	7,806.90	7,806.90	99.91	156.64	89.99	3,178.97	-2,003.94	8,923.02	8,730.55	192.47	46.360	
12,200.00	7,806.90	7,806.90	7,806.90	101.62	156.64	89.99	3,178.97	-2,003.94	9,019.77	8,827.15	192.61	46.828	
12,300.00	7,806.90	7,806.90	7,806.90	103.32	156.64	89.99	3,178.97	-2,003.94	9,116.58	8,923.83	192.75	47.296	
12,400.00	7,806.90	7,806.90	7,806.90	105.03	156.64	89.99	3,178.97	-2,003.94	9,213.47	9,020.57	192.89	47.765	
12,500.00	7,806.89	7,806.89	7,806.89	106.74	156.64	89.99	3,178.97	-2,003.94	9,310.42	9,117.39	193.03	48.233	
12,600.00	7,806.89	7,806.89	7,806.89	108.45	156.64	89.99	3,178.97	-2,003.94	9,407.43	9,214.27	193.17	48.701	
12,700.00	7,806.89	7,806.89	7,806.89	110.17	156.64	89.99	3,178.97	-2,003.94	9,504.51	9,311.21	193.30	49.169	
12,800.00	7,806.89	7,806.89	7,806.89	111.88	156.64	89.99	3,178.97	-2,003.94	9,601.65	9,408.21	193.44	49.637	
12,900.00	7,806.88	7,806.88	7,806.88	113.60	156.64	89.99	3,178.97	-2,003.94	9,698.84	9,505.27	193.57	50.105	
13,000.00	7,806.88	7,806.88	7,806.88	115.32	156.64	89.99	3,178.97	-2,003.94	9,796.09	9,602.39	193.70	50.573	
13,100.00	7,806.88	7,806.88	7,806.88	117.04	156.64	89.99	3,178.97	-2,003.94	9,893.40	9,699.56	193.84	51.040	
13,200.00	7,806.88	7,806.88	7,806.88	118.76	156.64	89.99	3,178.97	-2,003.94	9,990.76	9,796.79	193.97	51.508	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	20.17	880.69	323.54	938.24					
100.00	100.00	119.00	119.00	0.13	1.56	20.17	880.69	323.54	938.24	936.54	1.69	554.767		
200.00	200.00	219.00	219.00	0.49	3.82	20.17	880.69	323.54	938.24	933.92	4.31	217.484		
300.00	300.00	319.00	319.00	0.85	5.89	20.17	880.69	323.54	938.24	931.49	6.75	139.099		
400.00	400.00	419.00	419.00	1.21	7.93	20.17	880.69	323.54	938.24	929.09	9.14	102.612		
500.00	500.00	519.00	519.00	1.57	9.96	20.17	880.69	323.54	938.24	926.71	11.53	81.374		
600.00	600.00	619.00	619.00	1.93	11.98	20.17	880.69	323.54	938.24	924.33	13.91	67.448		
700.00	700.00	719.00	719.00	2.29	14.00	20.17	880.69	323.54	938.24	921.95	16.29	57.603		
800.00	800.00	819.00	819.00	2.64	16.02	20.17	880.69	323.54	938.24	919.57	18.66	50.272		
900.00	900.00	919.00	919.00	3.00	18.04	20.17	880.69	323.54	938.24	917.20	21.04	44.599		
1,000.00	1,000.00	1,019.00	1,019.00	3.36	20.05	20.17	880.69	323.54	938.24	914.83	23.41	40.078		
1,100.00	1,100.00	1,119.00	1,119.00	3.72	22.06	20.17	880.69	323.54	938.24	912.45	25.78	36.390		
1,200.00	1,200.00	1,219.00	1,219.00	4.08	24.08	20.17	880.69	323.54	938.24	910.08	28.15	33.324		
1,300.00	1,300.00	1,319.00	1,319.00	4.44	26.09	20.17	880.69	323.54	938.24	907.71	30.53	30.735		
1,400.00	1,400.00	1,419.00	1,419.00	4.79	28.10	20.17	880.69	323.54	938.24	905.34	32.90	28.520 CC		
1,500.00	1,499.98	1,518.98	1,518.98	5.14	30.11	-143.63	880.69	323.54	939.64	904.39	35.25	26.656 ES		
1,600.00	1,599.84	1,618.84	1,618.84	5.46	32.12	-143.77	880.69	323.54	943.86	906.27	37.59	25.111		
1,700.00	1,699.45	1,718.45	1,718.45	5.80	34.13	-144.00	880.69	323.54	950.91	910.99	39.92	23.818		
1,800.00	1,798.70	1,817.70	1,817.70	6.14	36.13	-144.31	880.69	323.54	960.81	918.56	42.26	22.736		
1,900.00	1,897.47	1,916.47	1,916.47	6.49	38.11	-144.69	880.69	323.54	973.60	929.01	44.59	21.834		
1,969.08	1,965.35	1,984.35	1,984.35	6.75	39.48	-145.00	880.69	323.54	984.14	937.94	46.20	21.303		
2,000.00	1,995.66	2,014.66	2,014.66	6.86	40.09	-145.20	880.69	323.54	989.18	942.26	46.92	21.083		
2,100.00	2,093.69	2,112.69	2,112.69	7.25	42.06	-145.84	880.69	323.54	1,005.55	956.31	49.24	20.420		
2,200.00	2,191.72	2,210.72	2,210.72	7.65	44.03	-146.46	880.69	323.54	1,022.04	970.46	51.57	19.817		
2,300.00	2,289.76	2,308.76	2,308.76	8.07	46.00	-147.06	880.69	323.54	1,038.64	984.73	53.91	19.266		
2,400.00	2,387.79	2,406.79	2,406.79	8.49	47.98	-147.63	880.69	323.54	1,055.35	999.10	56.25	18.762		
2,500.00	2,485.82	2,504.82	2,504.82	8.91	49.95	-148.20	880.69	323.54	1,072.16	1,013.57	58.59	18.300		
2,600.00	2,583.86	2,602.86	2,602.86	9.35	51.92	-148.74	880.69	323.54	1,089.07	1,028.14	60.93	17.873		
2,700.00	2,681.89	2,700.89	2,700.89	9.79	53.89	-149.27	880.69	323.54	1,106.08	1,042.80	63.28	17.480		
2,800.00	2,779.92	2,801.08	2,798.92	10.24	55.91	-149.78	880.69	323.54	1,123.17	1,057.51	65.67	17.104		
2,900.00	2,877.96	2,903.04	2,896.96	10.69	57.96	-150.28	880.69	323.54	1,140.35	1,072.26	68.09	16.747		
3,000.00	2,975.99	3,005.01	2,994.99	11.14	60.01	-150.76	880.69	323.54	1,157.61	1,087.09	70.52	16.415		
3,100.00	3,074.02	3,106.98	3,093.02	11.60	62.06	-151.23	880.69	323.54	1,174.95	1,102.00	72.95	16.106		
3,200.00	3,172.06	3,208.94	3,191.06	12.06	64.11	-151.68	880.69	323.54	1,192.36	1,116.99	75.38	15.818		
3,300.00	3,270.09	3,289.09	3,289.09	12.52	65.72	-152.12	880.69	323.54	1,209.85	1,132.48	77.37	15.637		
3,400.00	3,368.12	3,387.12	3,387.12	12.98	67.69	-152.55	880.69	323.54	1,227.40	1,147.68	79.72	15.396		
3,500.00	3,466.16	3,485.16	3,485.16	13.45	69.67	-152.97	880.69	323.54	1,245.02	1,162.95	82.07	15.170		
3,600.00	3,564.19	3,583.19	3,583.19	13.92	71.64	-153.37	880.69	323.54	1,262.70	1,178.28	84.42	14.957		
3,700.00	3,662.23	3,681.23	3,681.23	14.39	73.61	-153.77	880.69	323.54	1,280.44	1,193.67	86.77	14.756		
3,800.00	3,760.26	3,779.26	3,779.26	14.86	75.58	-154.15	880.69	323.54	1,298.24	1,209.12	89.12	14.567		
3,900.00	3,858.29	3,877.29	3,877.29	15.34	77.55	-154.52	880.69	323.54	1,316.09	1,224.62	91.47	14.388		
4,000.00	3,956.33	3,975.33	3,975.33	15.81	79.52	-154.89	880.69	323.54	1,334.00	1,240.17	93.82	14.218		
4,100.00	4,054.36	4,073.36	4,073.36	16.29	81.50	-155.24	880.69	323.54	1,351.96	1,255.78	96.18	14.057		
4,200.00	4,152.39	4,171.39	4,171.39	16.77	83.47	-155.59	880.69	323.54	1,369.96	1,271.44	98.53	13.905		
4,300.00	4,250.43	4,269.43	4,269.43	17.25	85.44	-155.92	880.69	323.54	1,388.01	1,287.14	100.88	13.759		
4,400.00	4,348.46	4,367.46	4,367.46	17.73	87.41	-156.25	880.69	323.54	1,406.11	1,302.89	103.23	13.622		
4,500.00	4,446.49	4,465.49	4,465.49	18.21	89.38	-156.57	880.69	323.54	1,424.25	1,318.68	105.58	13.490		
4,600.00	4,544.53	4,563.53	4,563.53	18.69	91.35	-156.88	880.69	323.54	1,442.44	1,334.51	107.93	13.365		
4,700.00	4,642.56	4,661.56	4,661.56	19.17	93.33	-157.18	880.69	323.54	1,460.66	1,350.38	110.28	13.245		
4,800.00	4,740.59	4,759.59	4,759.59	19.65	95.30	-157.48	880.69	323.54	1,478.92	1,366.30	112.63	13.131		
4,900.00	4,838.63	4,857.63	4,857.63	20.13	97.27	-157.77	880.69	323.54	1,497.22	1,382.25	114.98	13.022		
5,000.00	4,936.66	4,955.66	4,955.66	20.62	99.24	-158.05	880.69	323.54	1,515.56	1,398.23	117.33	12.917		

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-20-3N
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-20-3N	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	5,034.69	5,053.69	5,053.69	21.10	101.21	-158.32	880.69	323.54	1,533.93	1,414.25	119.68	12.817	
5,200.00	5,132.73	5,151.73	5,151.73	21.59	103.18	-158.59	880.69	323.54	1,552.34	1,430.31	122.03	12.721	
5,300.00	5,230.76	5,249.76	5,249.76	22.07	105.15	-158.85	880.69	323.54	1,570.77	1,446.39	124.38	12.629	
5,400.00	5,328.79	5,347.79	5,347.79	22.56	107.13	-159.11	880.69	323.54	1,589.24	1,462.51	126.73	12.541	
5,500.00	5,426.83	5,445.83	5,445.83	23.04	109.10	-159.36	880.69	323.54	1,607.74	1,478.66	129.08	12.456	
5,600.00	5,524.86	5,543.86	5,543.86	23.53	111.07	-159.60	880.69	323.54	1,626.26	1,494.84	131.43	12.374	
5,700.00	5,622.89	5,641.89	5,641.89	24.02	113.04	-159.84	880.69	323.54	1,644.82	1,511.04	133.78	12.295	
5,800.00	5,720.93	5,739.93	5,739.93	24.50	115.01	-160.08	880.69	323.54	1,663.40	1,527.28	136.12	12.220	
5,900.00	5,818.96	5,837.96	5,837.96	24.99	116.98	-160.30	880.69	323.54	1,682.01	1,543.54	138.47	12.147	
6,000.00	5,916.99	5,935.99	5,935.99	25.48	118.95	-160.53	880.69	323.54	1,700.64	1,559.82	140.82	12.076	
6,100.00	6,015.03	6,034.03	6,034.03	25.97	120.93	-160.75	880.69	323.54	1,719.30	1,576.13	143.17	12.009	
6,200.00	6,113.06	6,132.06	6,132.06	26.45	122.90	-160.96	880.69	323.54	1,737.98	1,592.46	145.52	11.943	
6,300.00	6,211.09	6,230.09	6,230.09	26.94	124.87	-161.17	880.69	323.54	1,756.69	1,608.82	147.87	11.880	
6,400.00	6,309.13	6,328.13	6,328.13	27.43	126.84	-161.38	880.69	323.54	1,775.41	1,625.20	150.22	11.819	
6,500.00	6,407.16	6,426.16	6,426.16	27.92	128.81	-161.58	880.69	323.54	1,794.16	1,641.60	152.57	11.760	
6,600.00	6,505.19	6,524.19	6,524.19	28.41	130.78	-161.77	880.69	323.54	1,812.93	1,658.02	154.92	11.703	
6,664.73	6,568.65	6,587.65	6,587.65	28.73	132.06	-161.90	880.69	323.54	1,825.09	1,668.66	156.44	11.667	
6,700.00	6,603.27	6,622.27	6,622.27	28.90	132.76	-162.00	880.69	323.54	1,831.52	1,674.26	157.27	11.646	
6,800.00	6,701.84	6,720.84	6,720.84	29.36	134.74	-162.26	880.69	323.54	1,847.54	1,687.92	159.62	11.575	
6,900.00	6,800.94	6,819.94	6,819.94	29.78	136.73	-162.47	880.69	323.54	1,860.28	1,698.30	161.98	11.485	
7,000.00	6,900.45	6,919.45	6,919.45	30.17	138.73	-162.62	880.69	323.54	1,869.72	1,705.38	164.33	11.378	
7,100.00	7,000.24	7,019.24	7,019.24	30.53	140.74	-162.71	880.69	323.54	1,875.84	1,709.15	166.69	11.253	
7,200.00	7,100.19	7,119.19	7,119.19	30.85	142.75	-162.75	880.69	323.54	1,878.63	1,709.59	169.04	11.114	
7,233.81	7,134.00	7,153.00	7,153.00	30.95	143.43	1.00	880.69	323.54	1,878.82	1,708.99	169.83	11.063	
7,300.00	7,200.19	7,219.19	7,219.19	31.12	144.76	1.00	880.69	323.54	1,878.82	1,707.45	171.37	10.964	
7,333.81	7,234.00	7,253.00	7,253.00	31.21	145.44	1.00	880.69	323.54	1,878.82	1,706.67	172.15	10.914	
7,350.00	7,250.18	7,269.18	7,269.18	31.26	145.77	-178.66	880.69	323.54	1,879.05	1,706.52	172.53	10.891	
7,400.00	7,300.04	7,319.04	7,319.04	31.44	146.77	-178.65	880.69	323.54	1,882.64	1,708.93	173.71	10.838	
7,450.00	7,349.39	7,368.39	7,368.39	31.66	147.76	-178.64	880.69	323.54	1,890.56	1,715.67	174.89	10.810	
7,500.00	7,397.87	7,416.87	7,416.87	31.92	148.74	-178.62	880.69	323.54	1,902.75	1,726.70	176.05	10.808 SF	
7,550.00	7,445.09	7,464.09	7,464.09	32.22	149.68	-178.59	880.69	323.54	1,919.11	1,741.92	177.19	10.831	
7,600.00	7,490.72	7,509.72	7,509.72	32.55	150.60	-178.55	880.69	323.54	1,939.53	1,761.23	178.30	10.878	
7,650.00	7,534.38	7,553.38	7,553.38	32.92	151.48	-178.49	880.69	323.54	1,963.85	1,784.48	179.37	10.949	
7,700.00	7,575.77	7,605.24	7,594.77	33.32	152.52	-178.42	880.69	323.54	1,991.87	1,811.28	180.59	11.030	
7,750.00	7,614.55	7,633.55	7,633.55	33.75	153.09	-178.33	880.69	323.54	2,023.40	1,842.07	181.34	11.158	
7,800.00	7,650.43	7,669.43	7,669.43	34.22	153.81	-178.22	880.69	323.54	2,058.19	1,875.97	182.22	11.295	
7,850.00	7,683.15	7,702.15	7,702.15	34.71	154.47	-178.06	880.69	323.54	2,095.97	1,912.94	183.03	11.452	
7,900.00	7,712.45	7,731.45	7,731.45	35.23	155.06	-177.86	880.69	323.54	2,136.46	1,952.71	183.75	11.627	
7,950.00	7,738.11	7,757.11	7,757.11	35.78	155.58	-177.57	880.69	323.54	2,179.34	1,994.96	184.38	11.820	
8,000.00	7,759.93	7,778.93	7,778.93	36.35	156.02	-177.15	880.69	323.54	2,224.30	2,039.39	184.92	12.029	
8,050.00	7,777.75	7,803.25	7,796.75	36.93	156.51	-176.48	880.69	323.54	2,270.99	2,085.51	185.49	12.244	
8,100.00	7,791.43	7,810.43	7,810.43	37.53	156.65	-175.31	880.69	323.54	2,319.06	2,133.37	185.69	12.489	
8,150.00	7,800.87	7,819.87	7,819.87	38.14	156.84	-172.74	880.69	323.54	2,368.14	2,182.21	185.93	12.737	
8,200.00	7,806.00	7,825.00	7,825.00	38.76	156.94	-162.88	880.69	323.54	2,417.85	2,231.79	186.06	12.995	
8,233.89	7,807.00	7,826.00	7,826.00	39.18	156.96	-89.92	880.69	323.54	2,451.72	2,265.63	186.09	13.175	
8,300.00	7,807.00	7,826.00	7,826.00	40.00	156.96	-89.92	880.69	323.54	2,517.81	2,331.71	186.10	13.529	
8,400.00	7,807.00	7,826.00	7,826.00	41.29	156.96	-89.92	880.69	323.54	2,617.80	2,431.68	186.12	14.065	
8,500.00	7,806.99	7,825.99	7,825.99	42.60	156.96	-89.91	880.69	323.54	2,717.78	2,531.65	186.14	14.601	
8,600.00	7,806.99	7,825.99	7,825.99	43.95	156.96	-89.91	880.69	323.54	2,817.77	2,631.61	186.16	15.136	
8,700.00	7,806.99	7,825.99	7,825.99	45.33	156.96	-89.91	880.69	323.54	2,917.76	2,731.58	186.18	15.672	
8,800.00	7,806.99	7,825.99	7,825.99	46.74	156.96	-89.90	880.69	323.54	3,017.75	2,831.54	186.20	16.207	
8,900.00	7,806.98	7,825.98	7,825.98	48.17	156.96	-89.90	880.69	323.54	3,117.74	2,931.51	186.23	16.742	

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-20-3N
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-20-3N	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	7,806.98	7,825.98	7,825.98	49.62	156.96	-89.90	880.69	323.54	3,217.73	3,031.48	186.25	17.276		
9,100.00	7,806.98	7,825.98	7,825.98	51.09	156.96	-89.89	880.69	323.54	3,317.72	3,131.44	186.28	17.811		
9,200.00	7,806.98	7,825.98	7,825.98	52.59	156.96	-89.89	880.69	323.54	3,417.71	3,231.41	186.30	18.345		
9,300.00	7,806.97	7,825.97	7,825.97	54.09	156.96	-89.89	880.69	323.54	3,517.70	3,331.37	186.33	18.879		
9,400.00	7,806.97	7,825.97	7,825.97	55.62	156.96	-89.88	880.69	323.54	3,617.70	3,431.34	186.36	19.413		
9,500.00	7,806.97	7,825.97	7,825.97	57.16	156.96	-89.88	880.69	323.54	3,717.69	3,531.30	186.38	19.946		
9,600.00	7,806.97	7,825.97	7,825.97	58.71	156.96	-89.88	880.69	323.54	3,817.68	3,631.27	186.41	20.480		
9,700.00	7,806.96	7,825.96	7,825.96	60.27	156.96	-89.87	880.69	323.54	3,917.68	3,731.23	186.44	21.013		
9,800.00	7,806.96	7,825.96	7,825.96	61.84	156.96	-89.87	880.69	323.54	4,017.67	3,831.20	186.47	21.545		
9,900.00	7,806.96	7,825.96	7,825.96	63.43	156.96	-89.87	880.69	323.54	4,117.66	3,931.16	186.51	22.078		
10,000.00	7,806.96	7,825.96	7,825.96	65.02	156.96	-89.86	880.69	323.54	4,217.66	4,031.12	186.54	22.610		
10,100.00	7,806.95	7,825.95	7,825.95	66.63	156.96	-89.86	880.69	323.54	4,317.65	4,131.08	186.57	23.142		
10,200.00	7,806.95	7,825.95	7,825.95	68.24	156.96	-89.86	880.69	323.54	4,417.65	4,231.04	186.60	23.674		
10,300.00	7,806.95	7,825.95	7,825.95	69.86	156.96	-89.85	880.69	323.54	4,517.64	4,331.00	186.64	24.205		
10,400.00	7,806.95	7,825.95	7,825.95	71.49	156.96	-89.85	880.69	323.54	4,617.64	4,430.96	186.67	24.736		
10,500.00	7,806.94	7,825.94	7,825.94	73.12	156.96	-89.85	880.69	323.54	4,717.63	4,530.92	186.71	25.267		
10,600.00	7,806.94	7,825.94	7,825.94	74.76	156.96	-89.84	880.69	323.54	4,817.63	4,630.88	186.75	25.797		
10,700.00	7,806.94	7,825.94	7,825.94	76.41	156.96	-89.84	880.69	323.54	4,917.63	4,730.84	186.79	26.327		
10,800.00	7,806.94	7,825.94	7,825.94	78.06	156.96	-89.84	880.69	323.54	5,017.62	4,830.80	186.83	26.857		
10,900.00	7,806.93	7,825.93	7,825.93	79.72	156.96	-89.83	880.69	323.54	5,117.62	4,930.75	186.87	27.387		
11,000.00	7,806.93	7,825.93	7,825.93	81.38	156.96	-89.83	880.69	323.54	5,217.61	5,030.71	186.91	27.916		
11,100.00	7,806.93	7,825.93	7,825.93	83.05	156.96	-89.83	880.69	323.54	5,317.61	5,130.66	186.95	28.444		
11,200.00	7,806.93	7,825.93	7,825.93	84.72	156.96	-89.82	880.69	323.54	5,417.61	5,230.62	186.99	28.973		
11,300.00	7,806.92	7,825.92	7,825.92	86.39	156.96	-89.82	880.69	323.54	5,517.60	5,330.57	187.03	29.501		
11,400.00	7,806.92	7,825.92	7,825.92	88.07	156.96	-89.82	880.69	323.54	5,617.60	5,430.52	187.08	30.028		
11,500.00	7,806.92	7,825.92	7,825.92	89.75	156.96	-89.81	880.69	323.54	5,717.60	5,530.48	187.12	30.556		
11,600.00	7,806.92	7,825.92	7,825.92	91.44	156.96	-89.81	880.69	323.54	5,817.59	5,630.43	187.17	31.083		
11,700.00	7,806.91	7,825.91	7,825.91	93.13	156.96	-89.81	880.69	323.54	5,917.59	5,730.38	187.21	31.609		
11,800.00	7,806.91	7,825.91	7,825.91	94.82	156.96	-89.80	880.69	323.54	6,017.59	5,830.33	187.26	32.135		
11,900.00	7,806.91	7,825.91	7,825.91	96.52	156.96	-89.80	880.69	323.54	6,117.59	5,930.28	187.31	32.661		
12,000.00	7,806.91	7,825.91	7,825.91	98.21	156.96	-89.80	880.69	323.54	6,217.58	6,030.23	187.36	33.186		
12,100.00	7,806.90	7,825.90	7,825.90	99.91	156.96	-89.80	880.69	323.54	6,317.58	6,130.18	187.40	33.711		
12,200.00	7,806.90	7,825.90	7,825.90	101.62	156.96	-89.79	880.69	323.54	6,417.58	6,230.12	187.45	34.235		
12,300.00	7,806.90	7,825.90	7,825.90	103.32	156.96	-89.79	880.69	323.54	6,517.58	6,330.07	187.51	34.759		
12,400.00	7,806.90	7,825.90	7,825.90	105.03	156.96	-89.79	880.69	323.54	6,617.57	6,430.02	187.56	35.283		
12,500.00	7,806.89	7,825.89	7,825.89	106.74	156.96	-89.78	880.69	323.54	6,717.57	6,529.96	187.61	35.806		
12,600.00	7,806.89	7,825.89	7,825.89	108.45	156.96	-89.78	880.69	323.54	6,817.57	6,629.91	187.66	36.329		
12,700.00	7,806.89	7,825.89	7,825.89	110.17	156.96	-89.78	880.69	323.54	6,917.57	6,729.85	187.72	36.851		
12,800.00	7,806.89	7,825.89	7,825.89	111.88	156.96	-89.77	880.69	323.54	7,017.57	6,829.79	187.77	37.373		
12,900.00	7,806.88	7,825.88	7,825.88	113.60	156.96	-89.77	880.69	323.54	7,117.56	6,929.74	187.83	37.894		
13,000.00	7,806.88	7,825.88	7,825.88	115.32	156.96	-89.77	880.69	323.54	7,217.56	7,029.68	187.88	38.415		
13,100.00	7,806.88	7,825.88	7,825.88	117.04	156.96	-89.76	880.69	323.54	7,317.56	7,129.62	187.94	38.936		
13,200.00	7,806.88	7,825.88	7,825.88	118.76	156.96	-89.76	880.69	323.54	7,417.56	7,229.56	188.00	39.455		
13,300.00	7,806.87	7,825.87	7,825.87	120.48	156.96	-89.76	880.69	323.54	7,517.56	7,329.50	188.06	39.975		
13,400.00	7,806.87	7,825.87	7,825.87	122.21	156.96	-89.75	880.69	323.54	7,617.56	7,429.44	188.12	40.494		
13,500.00	7,806.87	7,825.87	7,825.87	123.94	156.96	-89.75	880.69	323.54	7,717.55	7,529.38	188.18	41.012		
13,600.00	7,806.87	7,825.87	7,825.87	125.66	156.96	-89.75	880.69	323.54	7,817.55	7,629.32	188.24	41.530		
13,700.00	7,806.86	7,825.86	7,825.86	127.39	156.96	-89.74	880.69	323.54	7,917.55	7,729.25	188.30	42.048		
13,800.00	7,806.86	7,825.86	7,825.86	129.12	156.96	-89.74	880.69	323.54	8,017.55	7,829.19	188.36	42.565		
13,900.00	7,806.86	7,825.86	7,825.86	130.85	156.96	-89.74	880.69	323.54	8,117.55	7,929.12	188.42	43.082		
14,000.00	7,806.86	7,825.86	7,825.86	132.59	156.96	-89.73	880.69	323.54	8,217.55	8,029.06	188.49	43.598		
14,100.00	7,806.85	7,825.85	7,825.85	134.32	156.96	-89.73	880.69	323.54	8,317.54	8,128.99	188.55	44.113		

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-20-3N
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-20-3N	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	7,806.85	7,825.85	7,825.85	136.06	156.96	-89.73	880.69	323.54	8,417.54	8,228.93	188.62	44.628	
14,300.00	7,806.85	7,825.85	7,825.85	137.79	156.96	-89.72	880.69	323.54	8,517.54	8,328.86	188.68	45.142	
14,400.00	7,806.85	7,825.85	7,825.85	139.53	156.96	-89.72	880.69	323.54	8,617.54	8,428.79	188.75	45.656	
14,500.00	7,806.84	7,825.84	7,825.84	141.27	156.96	-89.72	880.69	323.54	8,717.54	8,528.72	188.82	46.170	
14,600.00	7,806.84	7,825.84	7,825.84	143.00	156.96	-89.71	880.69	323.54	8,817.54	8,628.66	188.88	46.683	
14,700.00	7,806.84	7,825.84	7,825.84	144.74	156.96	-89.71	880.69	323.54	8,917.54	8,728.59	188.95	47.195	
14,800.00	7,806.84	7,825.84	7,825.84	146.48	156.96	-89.71	880.69	323.54	9,017.54	8,828.52	189.02	47.707	
14,900.00	7,806.83	7,825.83	7,825.83	148.22	156.96	-89.70	880.69	323.54	9,117.53	8,928.44	189.09	48.218	
15,000.00	7,806.83	7,825.83	7,825.83	149.97	156.96	-89.70	880.69	323.54	9,217.53	9,028.37	189.16	48.729	
15,100.00	7,806.83	7,825.83	7,825.83	151.71	156.96	-89.70	880.69	323.54	9,317.53	9,128.30	189.23	49.239	
15,200.00	7,806.83	7,825.83	7,825.83	153.45	156.96	-89.69	880.69	323.54	9,417.53	9,228.23	189.30	49.748	
15,300.00	7,806.82	7,825.82	7,825.82	155.19	156.96	-89.69	880.69	323.54	9,517.53	9,328.15	189.38	50.257	
15,400.00	7,806.82	7,825.82	7,825.82	156.94	156.96	-89.69	880.69	323.54	9,617.53	9,428.08	189.45	50.766	
15,500.00	7,806.82	7,825.82	7,825.82	158.68	156.96	-89.68	880.69	323.54	9,717.53	9,528.00	189.52	51.273	
15,600.00	7,806.82	7,825.82	7,825.82	160.43	156.96	-89.68	880.69	323.54	9,817.53	9,627.93	189.60	51.781	
15,700.00	7,806.81	7,825.81	7,825.81	162.18	156.96	-89.68	880.69	323.54	9,917.53	9,727.85	189.67	52.287	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-70.27	903.77	-2,520.57	2,677.70					
100.00	100.00	108.00	92.00	0.13	1.34	-70.27	903.77	-2,520.57	2,677.70	2,676.22	1.48	1,813.429		
200.00	200.00	208.00	192.00	0.49	3.62	-70.27	903.77	-2,520.57	2,677.70	2,673.58	4.12	650.547		
300.00	300.00	308.00	292.00	0.85	5.70	-70.27	903.77	-2,520.57	2,677.70	2,671.15	6.55	408.770		
400.00	400.00	408.00	392.00	1.21	7.74	-70.27	903.77	-2,520.57	2,677.70	2,668.75	8.95	299.171		
500.00	500.00	508.00	492.00	1.57	9.77	-70.27	903.77	-2,520.57	2,677.70	2,666.36	11.34	236.181		
600.00	600.00	608.00	592.00	1.93	11.79	-70.27	903.77	-2,520.57	2,677.70	2,663.98	13.72	195.189		
700.00	700.00	708.00	692.00	2.29	13.81	-70.27	903.77	-2,520.57	2,677.70	2,661.60	16.10	166.357		
800.00	800.00	808.00	792.00	2.64	15.83	-70.27	903.77	-2,520.57	2,677.70	2,659.23	18.47	144.963		
900.00	900.00	908.00	892.00	3.00	17.84	-70.27	903.77	-2,520.57	2,677.70	2,656.85	20.85	128.453		
1,000.00	1,000.00	1,008.00	992.00	3.36	19.86	-70.27	903.77	-2,520.57	2,677.70	2,654.48	23.22	115.324		
1,100.00	1,100.00	1,108.00	1,092.00	3.72	21.87	-70.27	903.77	-2,520.57	2,677.70	2,652.11	25.59	104.633		
1,200.00	1,200.00	1,208.00	1,192.00	4.08	23.89	-70.27	903.77	-2,520.57	2,677.70	2,649.74	27.96	95.758		
1,300.00	1,300.00	1,308.00	1,292.00	4.44	25.90	-70.27	903.77	-2,520.57	2,677.70	2,647.36	30.33	88.271		
1,400.00	1,400.00	1,408.00	1,392.00	4.79	27.91	-70.27	903.77	-2,520.57	2,677.70	2,644.99	32.71	81.872 CC		
1,500.00	1,499.98	1,508.02	1,491.98	5.14	29.92	125.98	903.77	-2,520.57	2,678.72	2,643.66	35.06	76.405 ES		
1,600.00	1,599.84	1,608.16	1,591.84	5.46	31.94	126.02	903.77	-2,520.57	2,681.80	2,644.40	37.40	71.705		
1,700.00	1,699.45	1,708.55	1,691.45	5.80	33.96	126.09	903.77	-2,520.57	2,686.95	2,647.19	39.75	67.593		
1,800.00	1,798.70	1,809.30	1,790.70	6.14	35.99	126.18	903.77	-2,520.57	2,694.17	2,652.05	42.12	63.968		
1,900.00	1,897.47	1,899.47	1,889.47	6.49	37.60	126.29	903.77	-2,520.57	2,703.49	2,659.41	44.08	61.334		
1,969.08	1,965.35	1,957.35	1,957.35	6.75	38.97	126.39	903.77	-2,520.57	2,711.17	2,665.48	45.69	59.336		
2,000.00	1,995.66	1,987.66	1,987.66	6.86	39.58	126.49	903.77	-2,520.57	2,714.84	2,668.43	46.41	58.492		
2,100.00	2,093.69	2,085.69	2,085.69	7.25	41.55	126.82	903.77	-2,520.57	2,726.77	2,678.02	48.76	55.928		
2,200.00	2,191.72	2,183.72	2,183.72	7.65	43.52	127.14	903.77	-2,520.57	2,738.79	2,687.69	51.11	53.591		
2,300.00	2,289.76	2,281.76	2,281.76	8.07	45.49	127.47	903.77	-2,520.57	2,750.91	2,697.44	53.46	51.454		
2,400.00	2,387.79	2,379.79	2,379.79	8.49	47.46	127.79	903.77	-2,520.57	2,763.10	2,707.28	55.83	49.494		
2,500.00	2,485.82	2,477.82	2,477.82	8.91	49.44	128.11	903.77	-2,520.57	2,775.39	2,717.19	58.20	47.691		
2,600.00	2,583.86	2,575.86	2,575.86	9.35	51.41	128.42	903.77	-2,520.57	2,787.76	2,727.19	60.57	46.026		
2,700.00	2,681.89	2,673.89	2,673.89	9.79	53.38	128.73	903.77	-2,520.57	2,800.21	2,737.27	62.95	44.486		
2,800.00	2,779.92	2,771.92	2,771.92	10.24	55.35	129.04	903.77	-2,520.57	2,812.75	2,747.43	65.33	43.057		
2,900.00	2,877.96	2,869.96	2,869.96	10.69	57.32	129.35	903.77	-2,520.57	2,825.37	2,757.67	67.71	41.729		
3,000.00	2,975.99	2,967.99	2,967.99	11.14	59.29	129.66	903.77	-2,520.57	2,838.08	2,767.98	70.09	40.490		
3,100.00	3,074.02	3,066.02	3,066.02	11.60	61.27	129.96	903.77	-2,520.57	2,850.86	2,778.38	72.48	39.334		
3,200.00	3,172.06	3,164.06	3,164.06	12.06	63.24	130.26	903.77	-2,520.57	2,863.72	2,788.85	74.87	38.251		
3,300.00	3,270.09	3,262.09	3,262.09	12.52	65.21	130.55	903.77	-2,520.57	2,876.66	2,799.40	77.26	37.236		
3,400.00	3,368.12	3,360.12	3,360.12	12.98	67.18	130.85	903.77	-2,520.57	2,889.67	2,810.03	79.65	36.282		
3,500.00	3,466.16	3,458.16	3,458.16	13.45	69.15	131.14	903.77	-2,520.57	2,902.76	2,820.73	82.04	35.384		
3,600.00	3,564.19	3,556.19	3,556.19	13.92	71.12	131.43	903.77	-2,520.57	2,915.93	2,831.50	84.43	34.538		
3,700.00	3,662.23	3,654.23	3,654.23	14.39	73.10	131.71	903.77	-2,520.57	2,929.17	2,842.35	86.82	33.739		
3,800.00	3,760.26	3,752.26	3,752.26	14.86	75.07	132.00	903.77	-2,520.57	2,942.48	2,853.27	89.21	32.984		
3,900.00	3,858.29	3,850.29	3,850.29	15.34	77.04	132.28	903.77	-2,520.57	2,955.87	2,864.26	91.60	32.268		
4,000.00	3,956.33	3,948.33	3,948.33	15.81	79.01	132.56	903.77	-2,520.57	2,969.32	2,875.33	93.99	31.590		
4,100.00	4,054.36	4,046.36	4,046.36	16.29	80.98	132.83	903.77	-2,520.57	2,982.85	2,886.46	96.39	30.947		
4,200.00	4,152.39	4,144.39	4,144.39	16.77	82.95	133.11	903.77	-2,520.57	2,996.44	2,897.66	98.78	30.335		
4,300.00	4,250.43	4,242.43	4,242.43	17.25	84.93	133.38	903.77	-2,520.57	3,010.10	2,908.93	101.17	29.753		
4,400.00	4,348.46	4,340.46	4,340.46	17.73	86.90	133.65	903.77	-2,520.57	3,023.83	2,920.27	103.56	29.198		
4,500.00	4,446.49	4,438.49	4,438.49	18.21	88.87	133.92	903.77	-2,520.57	3,037.63	2,931.67	105.95	28.669		
4,600.00	4,544.53	4,536.53	4,536.53	18.69	90.84	134.18	903.77	-2,520.57	3,051.49	2,943.14	108.35	28.164		
4,700.00	4,642.56	4,634.56	4,634.56	19.17	92.81	134.44	903.77	-2,520.57	3,065.41	2,954.68	110.74	27.682		
4,800.00	4,740.59	4,732.59	4,732.59	19.65	94.78	134.70	903.77	-2,520.57	3,079.40	2,966.27	113.13	27.221		
4,900.00	4,838.63	4,830.63	4,830.63	20.13	96.76	134.96	903.77	-2,520.57	3,093.45	2,977.94	115.52	26.779		
5,000.00	4,936.66	4,928.66	4,928.66	20.62	98.73	135.21	903.77	-2,520.57	3,107.57	2,989.66	117.91	26.356		

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-20-3N
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-20-3N	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	5,034.69	5,026.69	5,026.69	21.10	100.70	135.47	903.77	-2,520.57	3,121.74	3,001.44	120.30	25.950		
5,200.00	5,132.73	5,124.73	5,124.73	21.59	102.67	135.72	903.77	-2,520.57	3,135.97	3,013.29	122.69	25.561		
5,300.00	5,230.76	5,222.76	5,222.76	22.07	104.64	135.96	903.77	-2,520.57	3,150.27	3,025.19	125.07	25.187		
5,400.00	5,328.79	5,320.79	5,320.79	22.56	106.61	136.21	903.77	-2,520.57	3,164.62	3,037.16	127.46	24.828		
5,500.00	5,426.83	5,418.83	5,418.83	23.04	108.58	136.45	903.77	-2,520.57	3,179.03	3,049.18	129.85	24.482		
5,600.00	5,524.86	5,516.86	5,516.86	23.53	110.56	136.70	903.77	-2,520.57	3,193.49	3,061.26	132.24	24.150		
5,700.00	5,622.89	5,614.89	5,614.89	24.02	112.53	136.94	903.77	-2,520.57	3,208.02	3,073.39	134.62	23.829		
5,800.00	5,720.93	5,712.93	5,712.93	24.50	114.50	137.17	903.77	-2,520.57	3,222.59	3,085.58	137.01	23.521		
5,900.00	5,818.96	5,810.96	5,810.96	24.99	116.47	137.41	903.77	-2,520.57	3,237.23	3,097.83	139.40	23.223		
6,000.00	5,916.99	5,908.99	5,908.99	25.48	118.44	137.64	903.77	-2,520.57	3,251.91	3,110.13	141.78	22.936		
6,100.00	6,015.03	6,007.03	6,007.03	25.97	120.41	137.87	903.77	-2,520.57	3,266.65	3,122.49	144.17	22.659		
6,200.00	6,113.06	6,105.06	6,105.06	26.45	122.38	138.10	903.77	-2,520.57	3,281.45	3,134.90	146.55	22.391		
6,300.00	6,211.09	6,203.09	6,203.09	26.94	124.36	138.33	903.77	-2,520.57	3,296.29	3,147.36	148.93	22.133		
6,400.00	6,309.13	6,301.13	6,301.13	27.43	126.33	138.55	903.77	-2,520.57	3,311.18	3,159.87	151.32	21.883		
6,500.00	6,407.16	6,400.84	6,399.16	27.92	128.33	138.78	903.77	-2,520.57	3,326.13	3,172.40	153.73	21.636		
6,600.00	6,505.19	6,502.81	6,497.19	28.41	130.38	139.00	903.77	-2,520.57	3,341.13	3,184.93	156.19	21.391		
6,664.73	6,568.65	6,560.65	6,560.65	28.73	131.55	139.14	903.77	-2,520.57	3,350.86	3,193.24	157.62	21.259		
6,700.00	6,603.27	6,604.73	6,595.27	28.90	132.43	139.28	903.77	-2,520.57	3,356.01	3,197.35	158.65	21.153		
6,800.00	6,701.84	6,706.16	6,693.84	29.36	134.47	139.64	903.77	-2,520.57	3,368.86	3,207.77	161.09	20.913		
6,900.00	6,800.94	6,807.06	6,792.94	29.78	136.50	139.92	903.77	-2,520.57	3,379.09	3,215.60	163.50	20.668		
7,000.00	6,900.45	6,907.55	6,892.45	30.17	138.52	140.12	903.77	-2,520.57	3,386.69	3,220.81	165.88	20.416		
7,100.00	7,000.24	7,007.77	6,992.24	30.53	140.54	140.25	903.77	-2,520.57	3,391.62	3,223.37	168.24	20.159		
7,200.00	7,100.19	7,107.81	7,092.19	30.85	142.55	140.31	903.77	-2,520.57	3,393.87	3,223.28	170.59	19.895		
7,233.81	7,134.00	7,126.00	7,126.00	30.95	142.92	-55.92	903.77	-2,520.57	3,394.02	3,222.97	171.06	19.842		
7,300.00	7,200.19	7,207.81	7,192.19	31.12	144.56	-55.92	903.77	-2,520.57	3,394.02	3,221.13	172.89	19.631		
7,333.81	7,234.00	7,226.00	7,226.00	31.21	144.93	-55.92	903.77	-2,520.57	3,394.02	3,220.66	173.36	19.578		
7,350.00	7,250.18	7,242.18	7,242.18	31.26	145.25	124.41	903.77	-2,520.57	3,394.15	3,220.42	173.74	19.536		
7,400.00	7,300.04	7,307.96	7,292.04	31.44	146.58	124.29	903.77	-2,520.57	3,396.18	3,220.95	175.24	19.381		
7,450.00	7,349.39	7,341.39	7,341.39	31.66	147.25	124.03	903.77	-2,520.57	3,400.67	3,224.56	176.11	19.310		
7,500.00	7,397.87	7,389.87	7,389.87	31.92	148.22	123.61	903.77	-2,520.57	3,407.60	3,230.30	177.31	19.219		
7,550.00	7,445.09	7,437.09	7,437.09	32.22	149.17	123.04	903.77	-2,520.57	3,416.96	3,238.46	178.50	19.143		
7,600.00	7,490.72	7,482.72	7,482.72	32.55	150.09	122.29	903.77	-2,520.57	3,428.71	3,249.04	179.67	19.083		
7,650.00	7,534.38	7,526.38	7,526.38	32.92	150.97	121.35	903.77	-2,520.57	3,442.80	3,261.98	180.82	19.040		
7,700.00	7,575.77	7,567.77	7,567.77	33.32	151.80	120.21	903.77	-2,520.57	3,459.19	3,277.26	181.93	19.013		
7,750.00	7,614.55	7,606.55	7,606.55	33.75	152.58	118.85	903.77	-2,520.57	3,477.80	3,294.80	183.01	19.004 SF		
7,800.00	7,650.43	7,642.43	7,642.43	34.22	153.30	117.23	903.77	-2,520.57	3,498.56	3,314.53	184.03	19.011		
7,850.00	7,683.15	7,675.15	7,675.15	34.71	153.96	115.34	903.77	-2,520.57	3,521.34	3,336.36	184.99	19.036		
7,900.00	7,712.45	7,704.45	7,704.45	35.23	154.55	113.15	903.77	-2,520.57	3,546.05	3,360.17	185.88	19.077		
7,950.00	7,738.11	7,730.11	7,730.11	35.78	155.06	110.64	903.77	-2,520.57	3,572.53	3,385.83	186.70	19.135		
8,000.00	7,759.93	7,751.93	7,751.93	36.35	155.50	107.79	903.77	-2,520.57	3,600.63	3,413.20	187.43	19.210		
8,050.00	7,777.75	7,769.75	7,769.75	36.93	155.86	104.59	903.77	-2,520.57	3,630.18	3,442.09	188.08	19.301		
8,100.00	7,791.43	7,783.43	7,783.43	37.53	156.14	101.04	903.77	-2,520.57	3,660.96	3,472.32	188.64	19.407		
8,150.00	7,800.87	7,807.13	7,792.87	38.14	156.61	97.15	903.77	-2,520.57	3,692.78	3,503.39	189.39	19.498		
8,200.00	7,806.00	7,802.00	7,798.00	38.76	156.51	92.97	903.77	-2,520.57	3,725.39	3,535.84	189.54	19.654		
8,233.89	7,807.00	7,801.00	7,799.00	39.18	156.49	90.00	903.77	-2,520.57	3,747.82	3,558.13	189.69	19.758		
8,300.00	7,807.00	7,801.00	7,799.00	40.00	156.49	90.00	903.77	-2,520.57	3,792.08	3,602.07	190.01	19.957		
8,400.00	7,807.00	7,801.00	7,799.00	41.29	156.49	90.00	903.77	-2,520.57	3,860.23	3,669.74	190.49	20.265		
8,500.00	7,806.99	7,801.01	7,798.99	42.60	156.49	90.00	903.77	-2,520.57	3,929.74	3,738.78	190.96	20.579		
8,600.00	7,806.99	7,801.01	7,798.99	43.95	156.49	90.00	903.77	-2,520.57	4,000.54	3,809.12	191.43	20.899		
8,700.00	7,806.99	7,801.01	7,798.99	45.33	156.49	90.00	903.77	-2,520.57	4,072.57	3,880.69	191.88	21.224		
8,800.00	7,806.99	7,801.01	7,798.99	46.74	156.49	90.00	903.77	-2,520.57	4,145.76	3,953.43	192.33	21.555		
8,900.00	7,806.98	7,801.02	7,798.98	48.17	156.49	90.00	903.77	-2,520.57	4,220.05	4,027.28	192.77	21.892		

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-20-3N
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-20-3N	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)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
9,000.00	7,806.98	7,801.02	7,798.98	49.62	156.49	90.00	903.77	-2,520.57	4,295.38	4,102.18	193.19	22.234					
9,100.00	7,806.98	7,801.02	7,798.98	51.09	156.49	90.00	903.77	-2,520.57	4,371.70	4,178.09	193.61	22.580					
9,200.00	7,806.98	7,801.02	7,798.98	52.59	156.49	90.00	903.77	-2,520.57	4,448.96	4,254.94	194.01	22.931					
9,300.00	7,806.97	7,801.03	7,798.97	54.09	156.49	90.00	903.77	-2,520.57	4,527.11	4,332.70	194.41	23.287					
9,400.00	7,806.97	7,801.03	7,798.97	55.62	156.49	90.00	903.77	-2,520.57	4,606.10	4,411.31	194.79	23.646					
9,500.00	7,806.97	7,801.03	7,798.97	57.16	156.49	90.00	903.77	-2,520.57	4,685.90	4,490.74	195.16	24.010					
9,600.00	7,806.97	7,801.03	7,798.97	58.71	156.49	90.00	903.77	-2,520.57	4,766.46	4,570.94	195.52	24.378					
9,700.00	7,806.96	7,801.04	7,798.96	60.27	156.49	90.00	903.77	-2,520.57	4,847.75	4,651.87	195.87	24.749					
9,800.00	7,806.96	7,801.04	7,798.96	61.84	156.49	90.00	903.77	-2,520.57	4,929.72	4,733.51	196.21	25.124					
9,900.00	7,806.96	7,801.04	7,798.96	63.43	156.49	90.00	903.77	-2,520.57	5,012.35	4,815.80	196.54	25.503					
10,000.00	7,806.96	7,801.04	7,798.96	65.02	156.49	90.00	903.77	-2,520.57	5,095.60	4,898.73	196.86	25.884					
10,100.00	7,806.95	7,801.05	7,798.95	66.63	156.49	90.00	903.77	-2,520.57	5,179.44	4,982.26	197.17	26.268					
10,200.00	7,806.95	7,801.05	7,798.95	68.24	156.49	90.00	903.77	-2,520.57	5,263.84	5,066.37	197.48	26.656					
10,300.00	7,806.95	7,801.05	7,798.95	69.86	156.49	90.00	903.77	-2,520.57	5,348.79	5,151.02	197.77	27.046					
10,400.00	7,806.95	7,801.05	7,798.95	71.49	156.49	90.00	903.77	-2,520.57	5,434.24	5,236.19	198.05	27.438					
10,500.00	7,806.94	7,801.06	7,798.94	73.12	156.49	90.00	903.77	-2,520.57	5,520.19	5,321.86	198.33	27.834					
10,600.00	7,806.94	7,801.06	7,798.94	74.76	156.49	90.00	903.77	-2,520.57	5,606.60	5,408.01	198.60	28.231					
10,700.00	7,806.94	7,801.06	7,798.94	76.41	156.49	90.00	903.77	-2,520.57	5,693.46	5,494.60	198.86	28.631					
10,800.00	7,806.94	7,801.06	7,798.94	78.06	156.49	90.00	903.77	-2,520.57	5,780.74	5,581.63	199.11	29.033					
10,900.00	7,806.93	7,801.07	7,798.93	79.72	156.49	90.00	903.77	-2,520.57	5,868.43	5,669.07	199.36	29.437					
11,000.00	7,806.93	7,801.07	7,798.93	81.38	156.49	90.00	903.77	-2,520.57	5,956.50	5,756.91	199.59	29.843					
11,100.00	7,806.93	7,801.07	7,798.93	83.05	156.49	90.00	903.77	-2,520.57	6,044.95	5,845.12	199.83	30.251					
11,200.00	7,806.93	7,801.07	7,798.93	84.72	156.49	90.00	903.77	-2,520.57	6,133.75	5,933.70	200.05	30.661					
11,300.00	7,806.92	7,801.08	7,798.92	86.39	156.49	90.00	903.77	-2,520.57	6,222.89	6,022.62	200.27	31.072					
11,400.00	7,806.92	7,801.08	7,798.92	88.07	156.49	90.00	903.77	-2,520.57	6,312.36	6,111.87	200.49	31.485					
11,500.00	7,806.92	7,801.08	7,798.92	89.75	156.49	90.00	903.77	-2,520.57	6,402.13	6,201.44	200.70	31.899					
11,600.00	7,806.92	7,801.08	7,798.92	91.44	156.49	90.00	903.77	-2,520.57	6,492.21	6,291.31	200.90	32.315					
11,700.00	7,806.91	7,801.09	7,798.91	93.13	156.49	90.00	903.77	-2,520.57	6,582.57	6,381.47	201.10	32.733					
11,800.00	7,806.91	7,801.09	7,798.91	94.82	156.49	90.00	903.77	-2,520.57	6,673.21	6,471.92	201.30	33.151					
11,900.00	7,806.91	7,801.09	7,798.91	96.52	156.49	90.00	903.77	-2,520.57	6,764.11	6,562.63	201.49	33.571					
12,000.00	7,806.91	7,801.09	7,798.91	98.21	156.49	90.00	903.77	-2,520.57	6,855.27	6,653.60	201.67	33.992					
12,100.00	7,806.90	7,801.10	7,798.90	99.91	156.49	90.00	903.77	-2,520.57	6,946.67	6,744.82	201.85	34.415					
12,200.00	7,806.90	7,801.10	7,798.90	101.62	156.49	90.00	903.77	-2,520.57	7,038.30	6,836.27	202.03	34.838					
12,300.00	7,806.90	7,801.10	7,798.90	103.32	156.49	90.00	903.77	-2,520.57	7,130.16	6,927.96	202.20	35.262					
12,400.00	7,806.90	7,801.10	7,798.90	105.03	156.49	90.00	903.77	-2,520.57	7,222.23	7,019.86	202.37	35.688					
12,500.00	7,806.89	7,801.11	7,798.89	106.74	156.49	90.00	903.77	-2,520.57	7,314.52	7,111.98	202.54	36.114					
12,600.00	7,806.89	7,801.11	7,798.89	108.45	156.49	90.00	903.77	-2,520.57	7,407.00	7,204.30	202.70	36.542					
12,700.00	7,806.89	7,801.11	7,798.89	110.17	156.49	90.00	903.77	-2,520.57	7,499.67	7,296.81	202.86	36.970					
12,800.00	7,806.89	7,801.11	7,798.89	111.88	156.49	90.00	903.77	-2,520.57	7,592.54	7,389.52	203.02	37.399					
12,900.00	7,806.88	7,801.12	7,798.88	113.60	156.49	90.00	903.77	-2,520.57	7,685.58	7,482.41	203.17	37.828					
13,000.00	7,806.88	7,801.12	7,798.88	115.32	156.49	90.00	903.77	-2,520.57	7,778.79	7,575.47	203.32	38.259					
13,100.00	7,806.88	7,801.12	7,798.88	117.04	156.49	90.00	903.77	-2,520.57	7,872.17	7,668.70	203.47	38.690					
13,200.00	7,806.88	7,801.12	7,798.88	118.76	156.49	90.00	903.77	-2,520.57	7,965.71	7,762.10	203.61	39.122					
13,300.00	7,806.87	7,801.13	7,798.87	120.48	156.49	90.00	903.77	-2,520.57	8,059.40	7,855.65	203.76	39.554					
13,400.00	7,806.87	7,801.13	7,798.87	122.21	156.49	90.00	903.77	-2,520.57	8,153.25	7,949.35	203.90	39.987					
13,500.00	7,806.87	7,801.13	7,798.87	123.94	156.49	90.00	903.77	-2,520.57	8,247.24	8,043.21	204.03	40.421					
13,600.00	7,806.87	7,801.13	7,798.87	125.66	156.49	90.00	903.77	-2,520.57	8,341.37	8,137.20	204.17	40.855					
13,700.00	7,806.86	7,801.14	7,798.86	127.39	156.49	90.00	903.77	-2,520.57	8,435.63	8,231.33	204.30	41.290					
13,800.00	7,806.86	7,801.14	7,798.86	129.12	156.49	90.00	903.77	-2,520.57	8,530.03	8,325.60	204.43	41.725					
13,900.00	7,806.86	7,801.14	7,798.86	130.85	156.49	90.00	903.77	-2,520.57	8,624.55	8,419.99	204.56	42.161					
14,000.00	7,806.86	7,801.14	7,798.86	132.59	156.49	90.00	903.77	-2,520.57	8,719.20	8,514.50	204.69	42.597					
14,100.00	7,806.85	7,801.15	7,798.85	134.32	156.49	90.00	903.77	-2,520.57	8,813.96	8,609.14	204.82	43.033					

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-20-3N
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-20-3N	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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,200.00	7,806.85	7,801.15	7,798.85	136.06	156.49	90.00	903.77	-2,520.57	8,908.83	8,703.89	204.94	43.470	
14,300.00	7,806.85	7,801.15	7,798.85	137.79	156.49	90.00	903.77	-2,520.57	9,003.82	8,798.76	205.07	43.907	
14,400.00	7,806.85	7,801.15	7,798.85	139.53	156.49	90.00	903.77	-2,520.57	9,098.92	8,893.73	205.19	44.345	
14,500.00	7,806.84	7,801.16	7,798.84	141.27	156.49	90.00	903.77	-2,520.57	9,194.12	8,988.81	205.31	44.782	
14,600.00	7,806.84	7,801.16	7,798.84	143.00	156.49	90.00	903.77	-2,520.57	9,289.42	9,083.99	205.42	45.221	
14,700.00	7,806.84	7,801.16	7,798.84	144.74	156.49	90.00	903.77	-2,520.57	9,384.81	9,179.27	205.54	45.659	
14,800.00	7,806.84	7,801.16	7,798.84	146.48	156.49	90.00	903.77	-2,520.57	9,480.31	9,274.65	205.66	46.098	
14,900.00	7,806.83	7,801.17	7,798.83	148.22	156.49	90.00	903.77	-2,520.57	9,575.89	9,370.12	205.77	46.537	
15,000.00	7,806.83	7,801.17	7,798.83	149.97	156.49	90.00	903.77	-2,520.57	9,671.57	9,465.68	205.88	46.976	
15,100.00	7,806.83	7,801.17	7,798.83	151.71	156.49	90.00	903.77	-2,520.57	9,767.33	9,561.33	206.00	47.415	
15,200.00	7,806.83	7,801.17	7,798.83	153.45	156.49	90.00	903.77	-2,520.57	9,863.17	9,657.06	206.11	47.855	
15,300.00	7,806.82	7,801.18	7,798.82	155.19	156.49	90.00	903.77	-2,520.57	9,959.10	9,752.88	206.22	48.294	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	16.00	16.00	0.00	0.19	106.80	-494.03	1,636.32	1,709.27					
100.00	100.00	116.00	116.00	0.13	1.53	106.80	-494.03	1,636.32	1,709.27	1,707.61	1.66	1,029.385		
200.00	200.00	216.00	216.00	0.49	3.79	106.80	-494.03	1,636.32	1,709.27	1,704.99	4.28	399.140		
300.00	300.00	316.00	316.00	0.85	5.86	106.80	-494.03	1,636.32	1,709.27	1,702.56	6.71	254.583		
400.00	400.00	416.00	416.00	1.21	7.90	106.80	-494.03	1,636.32	1,709.27	1,700.16	9.11	187.570		
500.00	500.00	516.00	516.00	1.57	9.93	106.80	-494.03	1,636.32	1,709.27	1,697.77	11.50	148.641		
600.00	600.00	616.00	616.00	1.93	11.95	106.80	-494.03	1,636.32	1,709.27	1,695.39	13.88	123.146		
700.00	700.00	716.00	716.00	2.29	13.97	106.80	-494.03	1,636.32	1,709.27	1,693.01	16.26	105.138		
800.00	800.00	816.00	816.00	2.64	15.99	106.80	-494.03	1,636.32	1,709.27	1,690.64	18.63	91.735		
900.00	900.00	916.00	916.00	3.00	18.00	106.80	-494.03	1,636.32	1,709.27	1,688.27	21.01	81.367		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	20.02	106.80	-494.03	1,636.32	1,709.27	1,685.89	23.38	73.108		
1,100.00	1,100.00	1,116.00	1,116.00	3.72	22.03	106.80	-494.03	1,636.32	1,709.27	1,683.52	25.75	66.373		
1,200.00	1,200.00	1,216.00	1,216.00	4.08	24.05	106.80	-494.03	1,636.32	1,709.27	1,681.15	28.12	60.776		
1,300.00	1,300.00	1,316.00	1,316.00	4.44	26.06	106.80	-494.03	1,636.32	1,709.27	1,678.78	30.50	56.049		
1,400.00	1,400.00	1,416.00	1,416.00	4.79	28.07	106.80	-494.03	1,636.32	1,709.27	1,676.41	32.87	52.006		
1,500.00	1,499.98	1,515.98	1,515.98	5.14	30.08	-57.02	-494.03	1,636.32	1,708.32	1,673.10	35.22	48.505		
1,600.00	1,599.84	1,615.84	1,615.84	5.46	32.09	-57.22	-494.03	1,636.32	1,705.48	1,667.92	37.55	45.413		
1,700.00	1,699.45	1,715.45	1,715.45	5.80	34.10	-57.54	-494.03	1,636.32	1,700.77	1,660.88	39.89	42.635		
1,800.00	1,798.70	1,814.70	1,814.70	6.14	36.10	-58.00	-494.03	1,636.32	1,694.23	1,652.00	42.23	40.122		
1,900.00	1,897.47	1,913.47	1,913.47	6.49	38.08	-58.59	-494.03	1,636.32	1,685.94	1,641.37	44.56	37.832		
1,969.08	1,965.35	1,981.35	1,981.35	6.75	39.45	-59.07	-494.03	1,636.32	1,679.22	1,633.04	46.18	36.363		
2,000.00	1,995.66	2,011.66	2,011.66	6.86	40.06	-59.25	-494.03	1,636.32	1,676.04	1,629.14	46.90	35.735		
2,100.00	2,093.69	2,109.69	2,109.69	7.25	42.03	-59.82	-494.03	1,636.32	1,665.89	1,616.64	49.25	33.825		
2,200.00	2,191.72	2,207.72	2,207.72	7.65	44.00	-60.41	-494.03	1,636.32	1,655.91	1,604.30	51.61	32.085		
2,300.00	2,289.76	2,305.76	2,305.76	8.07	45.97	-60.99	-494.03	1,636.32	1,646.11	1,592.13	53.98	30.496		
2,400.00	2,387.79	2,403.79	2,403.79	8.49	47.95	-61.59	-494.03	1,636.32	1,636.48	1,580.13	56.36	29.038		
2,500.00	2,485.82	2,501.82	2,501.82	8.91	49.92	-62.19	-494.03	1,636.32	1,627.04	1,568.30	58.74	27.698		
2,600.00	2,583.86	2,600.14	2,599.86	9.35	51.90	-62.80	-494.03	1,636.32	1,617.78	1,556.64	61.14	26.460		
2,700.00	2,681.89	2,702.11	2,697.89	9.79	53.95	-63.42	-494.03	1,636.32	1,608.72	1,545.10	63.62	25.286		
2,800.00	2,779.92	2,804.08	2,795.92	10.24	56.00	-64.04	-494.03	1,636.32	1,599.84	1,533.73	66.11	24.201		
2,900.00	2,877.96	2,906.04	2,893.96	10.69	58.05	-64.67	-494.03	1,636.32	1,591.16	1,522.56	68.60	23.196		
3,000.00	2,975.99	3,008.01	2,991.99	11.14	60.10	-65.30	-494.03	1,636.32	1,582.68	1,511.59	71.09	22.263		
3,100.00	3,074.02	3,109.98	3,090.02	11.60	62.15	-65.94	-494.03	1,636.32	1,574.40	1,500.81	73.59	21.394		
3,200.00	3,172.06	3,188.06	3,188.06	12.06	63.72	-66.59	-494.03	1,636.32	1,566.32	1,490.71	75.61	20.715		
3,300.00	3,270.09	3,286.09	3,286.09	12.52	65.69	-67.25	-494.03	1,636.32	1,558.45	1,480.41	78.04	19.969		
3,400.00	3,368.12	3,384.12	3,384.12	12.98	67.66	-67.91	-494.03	1,636.32	1,550.80	1,470.32	80.48	19.270		
3,500.00	3,466.16	3,482.16	3,482.16	13.45	69.64	-68.57	-494.03	1,636.32	1,543.36	1,460.44	82.91	18.614		
3,600.00	3,564.19	3,580.19	3,580.19	13.92	71.61	-69.25	-494.03	1,636.32	1,536.13	1,450.78	85.35	17.998		
3,700.00	3,662.23	3,678.23	3,678.23	14.39	73.58	-69.93	-494.03	1,636.32	1,529.13	1,441.33	87.79	17.417		
3,800.00	3,760.26	3,776.26	3,776.26	14.86	75.55	-70.61	-494.03	1,636.32	1,522.35	1,432.11	90.24	16.870		
3,900.00	3,858.29	3,874.29	3,874.29	15.34	77.52	-71.30	-494.03	1,636.32	1,515.79	1,423.11	92.69	16.354		
4,000.00	3,956.33	3,972.33	3,972.33	15.81	79.49	-72.00	-494.03	1,636.32	1,509.47	1,414.33	95.14	15.866		
4,100.00	4,054.36	4,070.36	4,070.36	16.29	81.47	-72.70	-494.03	1,636.32	1,503.38	1,405.79	97.59	15.405		
4,200.00	4,152.39	4,168.39	4,168.39	16.77	83.44	-73.41	-494.03	1,636.32	1,497.52	1,397.48	100.04	14.969		
4,300.00	4,250.43	4,266.43	4,266.43	17.25	85.41	-74.12	-494.03	1,636.32	1,491.90	1,389.40	102.50	14.555		
4,400.00	4,348.46	4,364.46	4,364.46	17.73	87.38	-74.84	-494.03	1,636.32	1,486.53	1,381.57	104.96	14.163		
4,500.00	4,446.49	4,462.49	4,462.49	18.21	89.35	-75.57	-494.03	1,636.32	1,481.39	1,373.97	107.42	13.791		
4,600.00	4,544.53	4,560.53	4,560.53	18.69	91.32	-76.29	-494.03	1,636.32	1,476.50	1,366.62	109.88	13.438		
4,700.00	4,642.56	4,658.56	4,658.56	19.17	93.29	-77.03	-494.03	1,636.32	1,471.86	1,359.52	112.34	13.102		
4,800.00	4,740.59	4,756.59	4,756.59	19.65	95.27	-77.76	-494.03	1,636.32	1,467.48	1,352.67	114.80	12.782		
4,900.00	4,838.63	4,854.63	4,854.63	20.13	97.24	-78.50	-494.03	1,636.32	1,463.34	1,346.07	117.27	12.478		
5,000.00	4,936.66	4,952.66	4,952.66	20.62	99.21	-79.25	-494.03	1,636.32	1,459.46	1,339.72	119.73	12.189		

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-20-3N
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-20-3N	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	5,034.69	5,050.69	5,050.69	21.10	101.18	-80.00	-494.03	1,636.32	1,455.84	1,333.64	122.20	11.914		
5,200.00	5,132.73	5,148.73	5,148.73	21.59	103.15	-80.75	-494.03	1,636.32	1,452.47	1,327.80	124.67	11.651		
5,300.00	5,230.76	5,246.76	5,246.76	22.07	105.12	-81.50	-494.03	1,636.32	1,449.37	1,322.23	127.13	11.400		
5,400.00	5,328.79	5,344.79	5,344.79	22.56	107.10	-82.26	-494.03	1,636.32	1,446.53	1,316.93	129.60	11.162		
5,500.00	5,426.83	5,442.83	5,442.83	23.04	109.07	-83.02	-494.03	1,636.32	1,443.95	1,311.88	132.07	10.934		
5,600.00	5,524.86	5,540.86	5,540.86	23.53	111.04	-83.79	-494.03	1,636.32	1,441.64	1,307.11	134.53	10.716		
5,700.00	5,622.89	5,638.89	5,638.89	24.02	113.01	-84.55	-494.03	1,636.32	1,439.59	1,302.59	137.00	10.508		
5,800.00	5,720.93	5,736.93	5,736.93	24.50	114.98	-85.32	-494.03	1,636.32	1,437.82	1,298.35	139.46	10.310		
5,900.00	5,818.96	5,834.96	5,834.96	24.99	116.95	-86.09	-494.03	1,636.32	1,436.31	1,294.38	141.93	10.120		
6,000.00	5,916.99	5,932.99	5,932.99	25.48	118.92	-86.86	-494.03	1,636.32	1,435.07	1,290.68	144.39	9.939		
6,100.00	6,015.03	6,031.03	6,031.03	25.97	120.90	-87.63	-494.03	1,636.32	1,434.10	1,287.25	146.86	9.765		
6,200.00	6,113.06	6,129.06	6,129.06	26.45	122.87	-88.40	-494.03	1,636.32	1,433.41	1,284.09	149.32	9.600		
6,300.00	6,211.09	6,227.09	6,227.09	26.94	124.84	-89.18	-494.03	1,636.32	1,432.98	1,281.20	151.78	9.441		
6,400.00	6,309.13	6,325.13	6,325.13	27.43	126.81	-89.95	-494.03	1,636.32	1,432.83	1,278.59	154.24	9.290		
6,406.29	6,315.30	6,331.30	6,331.30	27.46	126.93	-90.00	-494.03	1,636.32	1,432.83	1,278.43	154.40	9.280 CC		
6,500.00	6,407.16	6,423.16	6,423.16	27.92	128.78	-90.72	-494.03	1,636.32	1,432.95	1,276.25	156.70	9.145		
6,600.00	6,505.19	6,521.19	6,521.19	28.41	130.75	-91.50	-494.03	1,636.32	1,433.34	1,274.18	159.16	9.006		
6,664.73	6,568.65	6,584.65	6,584.65	28.73	132.03	-92.00	-494.03	1,636.32	1,433.74	1,272.99	160.75	8.919		
6,700.00	6,603.27	6,619.27	6,619.27	28.90	132.73	-92.27	-494.03	1,636.32	1,433.99	1,272.38	161.61	8.873		
6,800.00	6,701.84	6,717.84	6,717.84	29.36	134.71	-92.94	-494.03	1,636.32	1,434.77	1,270.72	164.05	8.746		
6,900.00	6,800.94	6,816.94	6,816.94	29.78	136.70	-93.49	-494.03	1,636.32	1,435.52	1,269.06	166.46	8.624		
7,000.00	6,900.45	6,916.45	6,916.45	30.17	138.70	-93.89	-494.03	1,636.32	1,436.16	1,267.32	168.85	8.506		
7,100.00	7,000.24	7,016.24	7,016.24	30.53	140.71	-94.16	-494.03	1,636.32	1,436.61	1,265.41	171.21	8.391		
7,200.00	7,100.19	7,116.19	7,116.19	30.85	142.72	-94.28	-494.03	1,636.32	1,436.83	1,263.29	173.54	8.280		
7,233.81	7,134.00	7,150.00	7,150.00	30.95	143.40	-94.47	-494.03	1,636.32	1,436.84	1,262.53	174.31	8.243		
7,300.00	7,200.19	7,216.19	7,216.19	31.12	144.73	-94.67	-494.03	1,636.32	1,436.84	1,261.03	175.82	8.172		
7,333.81	7,234.00	7,250.00	7,250.00	31.21	145.41	-94.67	-494.03	1,636.32	1,436.84	1,260.25	176.59	8.137		
7,350.00	7,250.18	7,266.18	7,266.18	31.26	145.74	-110.19	-494.03	1,636.32	1,436.92	1,259.96	176.96	8.120 ES		
7,400.00	7,300.04	7,316.04	7,316.04	31.44	146.74	-110.20	-494.03	1,636.32	1,438.17	1,260.02	178.14	8.073		
7,450.00	7,349.39	7,365.39	7,365.39	31.66	147.73	-110.24	-494.03	1,636.32	1,440.94	1,261.59	179.35	8.034		
7,500.00	7,397.87	7,413.87	7,413.87	31.92	148.70	-110.27	-494.03	1,636.32	1,445.28	1,264.70	180.57	8.004		
7,550.00	7,445.09	7,461.09	7,461.09	32.22	149.65	-110.28	-494.03	1,636.32	1,451.24	1,269.44	181.80	7.982		
7,600.00	7,490.72	7,506.72	7,506.72	32.55	150.57	-110.25	-494.03	1,636.32	1,458.91	1,275.88	183.03	7.971		
7,650.00	7,534.38	7,550.38	7,550.38	32.92	151.45	-110.14	-494.03	1,636.32	1,468.36	1,284.12	184.24	7.970		
7,700.00	7,575.77	7,608.24	7,591.77	33.32	152.61	-109.92	-494.03	1,636.32	1,479.68	1,293.91	185.76	7.965 SF		
7,750.00	7,614.55	7,630.55	7,630.55	33.75	153.06	-109.55	-494.03	1,636.32	1,492.93	1,306.34	186.59	8.001		
7,800.00	7,650.43	7,666.43	7,666.43	34.22	153.78	-108.98	-494.03	1,636.32	1,508.18	1,320.49	187.69	8.035		
7,850.00	7,683.15	7,700.85	7,699.15	34.71	154.48	-108.17	-494.03	1,636.32	1,525.48	1,336.70	188.78	8.081		
7,900.00	7,712.45	7,728.45	7,728.45	35.23	155.03	-107.09	-494.03	1,636.32	1,544.82	1,355.09	189.73	8.142		
7,950.00	7,738.11	7,754.11	7,754.11	35.78	155.55	-105.68	-494.03	1,636.32	1,566.19	1,375.56	190.63	8.216		
8,000.00	7,759.93	7,775.93	7,775.93	36.35	155.99	-103.91	-494.03	1,636.32	1,589.53	1,398.08	191.45	8.303		
8,050.00	7,777.75	7,806.25	7,793.75	36.93	156.60	-101.73	-494.03	1,636.32	1,614.73	1,422.30	192.43	8.391		
8,100.00	7,791.43	7,807.43	7,807.43	37.53	156.62	-99.13	-494.03	1,636.32	1,641.66	1,448.86	192.80	8.515		
8,150.00	7,800.87	7,816.87	7,816.87	38.14	156.81	-96.08	-494.03	1,636.32	1,670.14	1,476.82	193.32	8.639		
8,200.00	7,806.00	7,822.00	7,822.00	38.76	156.91	-92.60	-494.03	1,636.32	1,699.95	1,506.21	193.73	8.775		
8,233.89	7,807.00	7,823.00	7,823.00	39.18	156.93	-90.00	-494.03	1,636.32	1,720.78	1,526.84	193.94	8.873		
8,300.00	7,807.00	7,823.00	7,823.00	40.00	156.93	-90.00	-494.03	1,636.32	1,762.60	1,568.31	194.30	9.072		
8,400.00	7,807.00	7,823.00	7,823.00	41.29	156.93	-90.00	-494.03	1,636.32	1,828.59	1,633.81	194.78	9.388		
8,500.00	7,806.99	7,822.99	7,822.99	42.60	156.93	-90.00	-494.03	1,636.32	1,897.56	1,702.35	195.21	9.721		
8,600.00	7,806.99	7,822.99	7,822.99	43.95	156.93	-90.00	-494.03	1,636.32	1,969.19	1,773.60	195.59	10.068		
8,700.00	7,806.99	7,822.99	7,822.99	45.33	156.93	-90.00	-494.03	1,636.32	2,043.21	1,847.28	195.93	10.428		
8,800.00	7,806.99	7,822.99	7,822.99	46.74	156.93	-90.00	-494.03	1,636.32	2,119.36	1,923.13	196.23	10.800		

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-20-3N
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-20-3N	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	7,806.98	7,822.98	7,822.98	48.17	156.93	-90.00	-494.03	1,636.32	2,197.43	2,000.93	196.50	11.183		
9,000.00	7,806.98	7,822.98	7,822.98	49.62	156.93	-90.00	-494.03	1,636.32	2,277.21	2,080.47	196.74	11.575		
9,100.00	7,806.98	7,822.98	7,822.98	51.09	156.93	-90.00	-494.03	1,636.32	2,358.53	2,161.58	196.94	11.976		
9,200.00	7,806.98	7,822.98	7,822.98	52.59	156.93	-90.00	-494.03	1,636.32	2,441.24	2,244.11	197.13	12.384		
9,300.00	7,806.97	7,822.97	7,822.97	54.09	156.93	-90.00	-494.03	1,636.32	2,525.20	2,327.90	197.30	12.799		
9,400.00	7,806.97	7,822.97	7,822.97	55.62	156.93	-90.00	-494.03	1,636.32	2,610.29	2,412.84	197.45	13.220		
9,500.00	7,806.97	7,822.97	7,822.97	57.16	156.93	-90.00	-494.03	1,636.32	2,696.40	2,498.82	197.58	13.647		
9,600.00	7,806.97	7,822.97	7,822.97	58.71	156.93	-90.00	-494.03	1,636.32	2,783.45	2,585.75	197.70	14.079		
9,700.00	7,806.96	7,822.96	7,822.96	60.27	156.93	-90.00	-494.03	1,636.32	2,871.34	2,673.53	197.81	14.516		
9,800.00	7,806.96	7,822.96	7,822.96	61.84	156.93	-90.00	-494.03	1,636.32	2,959.99	2,762.08	197.91	14.956		
9,900.00	7,806.96	7,822.96	7,822.96	63.43	156.93	-90.00	-494.03	1,636.32	3,049.35	2,851.35	198.00	15.401		
10,000.00	7,806.96	7,822.96	7,822.96	65.02	156.93	-90.00	-494.03	1,636.32	3,139.35	2,941.27	198.08	15.849		
10,100.00	7,806.95	7,822.95	7,822.95	66.63	156.93	-90.00	-494.03	1,636.32	3,229.94	3,031.78	198.16	16.300		
10,200.00	7,806.95	7,822.95	7,822.95	68.24	156.93	-90.00	-494.03	1,636.32	3,321.07	3,122.84	198.23	16.754		
10,300.00	7,806.95	7,822.95	7,822.95	69.86	156.93	-90.00	-494.03	1,636.32	3,412.69	3,214.40	198.29	17.211		
10,400.00	7,806.95	7,822.95	7,822.95	71.49	156.93	-90.00	-494.03	1,636.32	3,504.78	3,306.43	198.35	17.670		
10,500.00	7,806.94	7,822.94	7,822.94	73.12	156.93	-90.00	-494.03	1,636.32	3,597.28	3,398.88	198.41	18.131		
10,600.00	7,806.94	7,822.94	7,822.94	74.76	156.93	-90.00	-494.03	1,636.32	3,690.18	3,491.72	198.46	18.594		
10,700.00	7,806.94	7,822.94	7,822.94	76.41	156.93	-90.00	-494.03	1,636.32	3,783.44	3,584.93	198.51	19.059		
10,800.00	7,806.94	7,822.94	7,822.94	78.06	156.93	-90.00	-494.03	1,636.32	3,877.04	3,678.47	198.56	19.526		
10,900.00	7,806.93	7,822.93	7,822.93	79.72	156.93	-90.00	-494.03	1,636.32	3,970.94	3,772.34	198.61	19.994		
11,000.00	7,806.93	7,822.93	7,822.93	81.38	156.93	-90.00	-494.03	1,636.32	4,065.14	3,866.49	198.65	20.464		
11,100.00	7,806.93	7,822.93	7,822.93	83.05	156.93	-90.00	-494.03	1,636.32	4,159.61	3,960.92	198.70	20.935		
11,200.00	7,806.93	7,822.93	7,822.93	84.72	156.93	-90.00	-494.03	1,636.32	4,254.33	4,055.60	198.74	21.407		
11,300.00	7,806.92	7,822.92	7,822.92	86.39	156.93	-90.00	-494.03	1,636.32	4,349.29	4,150.51	198.78	21.880		
11,400.00	7,806.92	7,822.92	7,822.92	88.07	156.93	-90.00	-494.03	1,636.32	4,444.47	4,245.65	198.82	22.354		
11,500.00	7,806.92	7,822.92	7,822.92	89.75	156.93	-90.00	-494.03	1,636.32	4,539.86	4,341.00	198.86	22.830		
11,600.00	7,806.92	7,822.92	7,822.92	91.44	156.93	-90.00	-494.03	1,636.32	4,635.44	4,436.54	198.90	23.306		
11,700.00	7,806.91	7,822.91	7,822.91	93.13	156.93	-90.00	-494.03	1,636.32	4,731.20	4,532.27	198.93	23.783		
11,800.00	7,806.91	7,822.91	7,822.91	94.82	156.93	-90.00	-494.03	1,636.32	4,827.14	4,628.17	198.97	24.261		
11,900.00	7,806.91	7,822.91	7,822.91	96.52	156.93	-89.99	-494.03	1,636.32	4,923.24	4,724.23	199.01	24.739		
12,000.00	7,806.91	7,822.91	7,822.91	98.21	156.93	-89.99	-494.03	1,636.32	5,019.49	4,820.44	199.05	25.218		
12,100.00	7,806.90	7,822.90	7,822.90	99.91	156.93	-89.99	-494.03	1,636.32	5,115.88	4,916.80	199.08	25.697		
12,200.00	7,806.90	7,822.90	7,822.90	101.62	156.93	-89.99	-494.03	1,636.32	5,212.41	5,013.29	199.12	26.177		
12,300.00	7,806.90	7,822.90	7,822.90	103.32	156.93	-89.99	-494.03	1,636.32	5,309.07	5,109.91	199.16	26.658		
12,400.00	7,806.90	7,822.90	7,822.90	105.03	156.93	-89.99	-494.03	1,636.32	5,405.85	5,206.65	199.19	27.139		
12,500.00	7,806.89	7,822.89	7,822.89	106.74	156.93	-89.99	-494.03	1,636.32	5,502.74	5,303.51	199.23	27.620		
12,600.00	7,806.89	7,822.89	7,822.89	108.45	156.93	-89.99	-494.03	1,636.32	5,599.75	5,400.48	199.27	28.102		
12,700.00	7,806.89	7,822.89	7,822.89	110.17	156.93	-89.99	-494.03	1,636.32	5,696.85	5,497.55	199.31	28.584		
12,800.00	7,806.89	7,822.89	7,822.89	111.88	156.93	-89.99	-494.03	1,636.32	5,794.06	5,594.72	199.34	29.066		
12,900.00	7,806.88	7,822.88	7,822.88	113.60	156.93	-89.99	-494.03	1,636.32	5,891.36	5,691.98	199.38	29.548		
13,000.00	7,806.88	7,822.88	7,822.88	115.32	156.93	-89.99	-494.03	1,636.32	5,988.75	5,789.33	199.42	30.031		
13,100.00	7,806.88	7,822.88	7,822.88	117.04	156.93	-89.99	-494.03	1,636.32	6,086.22	5,886.76	199.46	30.514		
13,200.00	7,806.88	7,822.88	7,822.88	118.76	156.93	-89.99	-494.03	1,636.32	6,183.78	5,984.28	199.50	30.997		
13,300.00	7,806.87	7,822.87	7,822.87	120.48	156.93	-89.99	-494.03	1,636.32	6,281.41	6,081.87	199.54	31.480		
13,400.00	7,806.87	7,822.87	7,822.87	122.21	156.93	-89.99	-494.03	1,636.32	6,379.11	6,179.53	199.58	31.963		
13,500.00	7,806.87	7,822.87	7,822.87	123.94	156.93	-89.99	-494.03	1,636.32	6,476.88	6,277.27	199.62	32.446		
13,600.00	7,806.87	7,822.87	7,822.87	125.66	156.93	-89.99	-494.03	1,636.32	6,574.73	6,375.07	199.66	32.930		
13,700.00	7,806.86	7,822.86	7,822.86	127.39	156.93	-89.99	-494.03	1,636.32	6,672.63	6,472.93	199.70	33.413		
13,800.00	7,806.86	7,822.86	7,822.86	129.12	156.93	-89.99	-494.03	1,636.32	6,770.60	6,570.85	199.74	33.896		
13,900.00	7,806.86	7,822.86	7,822.86	130.85	156.93	-89.99	-494.03	1,636.32	6,868.62	6,668.84	199.79	34.380		
14,000.00	7,806.86	7,822.86	7,822.86	132.59	156.93	-89.99	-494.03	1,636.32	6,966.70	6,766.87	199.83	34.863		

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-20-3N
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-20-3N	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	7,806.85	7,822.85	7,822.85	134.32	156.93	-89.99	-494.03	1,636.32	7,064.84	6,864.97	199.87	35.347		
14,200.00	7,806.85	7,822.85	7,822.85	136.06	156.93	-89.99	-494.03	1,636.32	7,163.03	6,963.11	199.92	35.830		
14,300.00	7,806.85	7,822.85	7,822.85	137.79	156.93	-89.99	-494.03	1,636.32	7,261.26	7,061.30	199.96	36.313		
14,400.00	7,806.85	7,822.85	7,822.85	139.53	156.93	-89.99	-494.03	1,636.32	7,359.55	7,159.54	200.01	36.796		
14,500.00	7,806.84	7,822.84	7,822.84	141.27	156.93	-89.99	-494.03	1,636.32	7,457.87	7,257.82	200.05	37.280		
14,600.00	7,806.84	7,822.84	7,822.84	143.00	156.93	-89.99	-494.03	1,636.32	7,556.25	7,356.15	200.10	37.763		
14,700.00	7,806.84	7,822.84	7,822.84	144.74	156.93	-89.99	-494.03	1,636.32	7,654.66	7,454.52	200.15	38.245		
14,800.00	7,806.84	7,822.84	7,822.84	146.48	156.93	-89.99	-494.03	1,636.32	7,753.12	7,552.93	200.19	38.728		
14,900.00	7,806.83	7,822.83	7,822.83	148.22	156.93	-89.99	-494.03	1,636.32	7,851.61	7,651.37	200.24	39.211		
15,000.00	7,806.83	7,822.83	7,822.83	149.97	156.93	-89.99	-494.03	1,636.32	7,950.15	7,749.86	200.29	39.693		
15,100.00	7,806.83	7,822.83	7,822.83	151.71	156.93	-89.99	-494.03	1,636.32	8,048.71	7,848.38	200.34	40.176		
15,200.00	7,806.83	7,822.83	7,822.83	153.45	156.93	-89.99	-494.03	1,636.32	8,147.32	7,946.93	200.39	40.658		
15,300.00	7,806.82	7,822.82	7,822.82	155.19	156.93	-89.99	-494.03	1,636.32	8,245.96	8,045.52	200.44	41.140		
15,400.00	7,806.82	7,822.82	7,822.82	156.94	156.93	-89.99	-494.03	1,636.32	8,344.63	8,144.14	200.49	41.621		
15,500.00	7,806.82	7,822.82	7,822.82	158.68	156.93	-89.99	-494.03	1,636.32	8,443.33	8,242.79	200.54	42.103		
15,600.00	7,806.82	7,822.82	7,822.82	160.43	156.93	-89.99	-494.03	1,636.32	8,542.06	8,341.47	200.59	42.584		
15,700.00	7,806.81	7,822.81	7,822.81	162.18	156.93	-89.99	-494.03	1,636.32	8,640.82	8,440.17	200.64	43.065		
15,800.00	7,806.81	7,822.81	7,822.81	163.92	156.93	-89.99	-494.03	1,636.32	8,739.61	8,538.91	200.70	43.546		
15,900.00	7,806.81	7,822.81	7,822.81	165.67	156.93	-89.99	-494.03	1,636.32	8,838.42	8,637.67	200.75	44.027		
16,000.00	7,806.81	7,822.81	7,822.81	167.42	156.93	-89.99	-494.03	1,636.32	8,937.26	8,736.46	200.80	44.507		
16,100.00	7,806.80	7,822.80	7,822.80	169.17	156.93	-89.99	-494.03	1,636.32	9,036.13	8,835.27	200.86	44.987		
16,200.00	7,806.80	7,822.80	7,822.80	170.91	156.93	-89.99	-494.03	1,636.32	9,135.02	8,934.11	200.91	45.467		
16,300.00	7,806.80	7,822.80	7,822.80	172.66	156.93	-89.99	-494.03	1,636.32	9,233.94	9,032.97	200.97	45.947		
16,400.00	7,806.80	7,822.80	7,822.80	174.41	156.93	-89.99	-494.03	1,636.32	9,332.88	9,131.85	201.03	46.426		
16,500.00	7,806.79	7,822.79	7,822.79	176.16	156.93	-89.99	-494.03	1,636.32	9,431.84	9,230.76	201.08	46.905		
16,600.00	7,806.79	7,822.79	7,822.79	177.92	156.93	-89.99	-494.03	1,636.32	9,530.82	9,329.68	201.14	47.384		
16,700.00	7,806.79	7,822.79	7,822.79	179.67	156.93	-89.99	-494.03	1,636.32	9,629.83	9,428.63	201.20	47.862		
16,800.00	7,806.79	7,822.79	7,822.79	181.42	156.93	-89.99	-494.03	1,636.32	9,728.85	9,527.60	201.26	48.340		
16,900.00	7,806.78	7,822.78	7,822.78	183.17	156.93	-89.99	-494.03	1,636.32	9,827.90	9,626.58	201.32	48.818		
17,000.00	7,806.78	7,822.78	7,822.78	184.92	156.93	-89.99	-494.03	1,636.32	9,926.96	9,725.58	201.38	49.296		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	7.11	3,770.12	469.96	3,799.40					
100.00	100.00	72.00	72.00	0.13	0.83	7.11	3,770.12	469.96	3,799.29	3,798.33	0.97	3,923.312		
200.00	200.00	172.00	172.00	0.49	2.81	7.11	3,770.12	469.96	3,799.29	3,795.99	3.31	1,149.160		
300.00	300.00	272.00	272.00	0.85	4.95	7.11	3,770.12	469.96	3,799.29	3,793.49	5.81	654.474		
400.00	400.00	372.00	372.00	1.21	7.01	7.11	3,770.12	469.96	3,799.29	3,791.08	8.22	462.415		
500.00	500.00	472.00	472.00	1.57	9.04	7.11	3,770.12	469.96	3,799.29	3,788.69	10.61	358.171		
600.00	600.00	572.00	572.00	1.93	11.06	7.11	3,770.12	469.96	3,799.29	3,786.30	12.99	292.466		
700.00	700.00	672.00	672.00	2.29	13.08	7.11	3,770.12	469.96	3,799.29	3,783.93	15.37	247.201		
800.00	800.00	772.00	772.00	2.64	15.10	7.11	3,770.12	469.96	3,799.29	3,781.55	17.75	214.099		
900.00	900.00	872.00	872.00	3.00	17.12	7.11	3,770.12	469.96	3,799.29	3,779.17	20.12	188.831		
1,000.00	1,000.00	972.00	972.00	3.36	19.13	7.11	3,770.12	469.96	3,799.29	3,776.80	22.49	168.906		
1,100.00	1,100.00	1,072.00	1,072.00	3.72	21.15	7.11	3,770.12	469.96	3,799.29	3,774.43	24.87	152.789		
1,200.00	1,200.00	1,172.00	1,172.00	4.08	23.16	7.11	3,770.12	469.96	3,799.29	3,772.06	27.24	139.483		
1,300.00	1,300.00	1,272.00	1,272.00	4.44	25.17	7.11	3,770.12	469.96	3,799.29	3,769.68	29.61	128.311		
1,400.00	1,400.00	1,372.00	1,372.00	4.79	27.19	7.11	3,770.12	469.96	3,799.29	3,767.31	31.98	118.797 CC		
1,500.00	1,499.98	1,471.98	1,471.98	5.14	29.20	-156.65	3,770.12	469.96	3,800.90	3,766.56	34.33	110.701 ES		
1,600.00	1,599.84	1,571.84	1,571.84	5.46	31.21	-156.64	3,770.12	469.96	3,805.70	3,769.03	36.67	103.776		
1,700.00	1,699.45	1,671.45	1,671.45	5.80	33.21	-156.63	3,770.12	469.96	3,813.71	3,774.70	39.01	97.765		
1,800.00	1,798.70	1,770.70	1,770.70	6.14	35.21	-156.61	3,770.12	469.96	3,824.91	3,783.57	41.34	92.518		
1,900.00	1,897.47	1,869.47	1,869.47	6.49	37.20	-156.59	3,770.12	469.96	3,839.29	3,795.62	43.67	87.916		
1,969.08	1,965.35	1,937.35	1,937.35	6.75	38.56	-156.57	3,770.12	469.96	3,851.08	3,805.81	45.27	85.061		
2,000.00	1,995.66	1,967.66	1,967.66	6.86	39.17	-156.61	3,770.12	469.96	3,856.70	3,810.71	45.99	83.857		
2,100.00	2,093.69	2,065.69	2,065.69	7.25	41.14	-156.72	3,770.12	469.96	3,874.88	3,826.57	48.31	80.209		
2,200.00	2,191.72	2,163.72	2,163.72	7.65	43.12	-156.84	3,770.12	469.96	3,893.07	3,842.43	50.63	76.888		
2,300.00	2,289.76	2,261.76	2,261.76	8.07	45.09	-156.95	3,770.12	469.96	3,911.27	3,858.31	52.96	73.853		
2,400.00	2,387.79	2,359.79	2,359.79	8.49	47.06	-157.06	3,770.12	469.96	3,929.49	3,874.20	55.29	71.069		
2,500.00	2,485.82	2,457.82	2,457.82	8.91	49.03	-157.17	3,770.12	469.96	3,947.73	3,890.11	57.62	68.508		
2,600.00	2,583.86	2,555.86	2,555.86	9.35	51.00	-157.29	3,770.12	469.96	3,965.98	3,906.02	59.96	66.143		
2,700.00	2,681.89	2,653.89	2,653.89	9.79	52.98	-157.39	3,770.12	469.96	3,984.24	3,921.94	62.30	63.953		
2,800.00	2,779.92	2,751.92	2,751.92	10.24	54.95	-157.50	3,770.12	469.96	4,002.52	3,937.88	64.64	61.920		
2,900.00	2,877.96	2,849.96	2,849.96	10.69	56.92	-157.61	3,770.12	469.96	4,020.81	3,953.83	66.98	60.028		
3,000.00	2,975.99	2,947.99	2,947.99	11.14	58.89	-157.72	3,770.12	469.96	4,039.12	3,969.79	69.33	58.262		
3,100.00	3,074.02	3,046.02	3,046.02	11.60	60.86	-157.82	3,770.12	469.96	4,057.44	3,985.76	71.67	56.611		
3,200.00	3,172.06	3,144.06	3,144.06	12.06	62.84	-157.93	3,770.12	469.96	4,075.77	4,001.75	74.02	55.064		
3,300.00	3,270.09	3,242.09	3,242.09	12.52	64.81	-158.03	3,770.12	469.96	4,094.11	4,017.75	76.37	53.612		
3,400.00	3,368.12	3,340.12	3,340.12	12.98	66.78	-158.13	3,770.12	469.96	4,112.47	4,033.76	78.71	52.246		
3,500.00	3,466.16	3,438.16	3,438.16	13.45	68.75	-158.23	3,770.12	469.96	4,130.84	4,049.78	81.06	50.958		
3,600.00	3,564.19	3,536.19	3,536.19	13.92	70.72	-158.33	3,770.12	469.96	4,149.22	4,065.81	83.41	49.743		
3,700.00	3,662.23	3,634.23	3,634.23	14.39	72.69	-158.43	3,770.12	469.96	4,167.62	4,081.86	85.76	48.594		
3,800.00	3,760.26	3,732.26	3,732.26	14.86	74.67	-158.53	3,770.12	469.96	4,186.03	4,097.91	88.12	47.506		
3,900.00	3,858.29	3,830.29	3,830.29	15.34	76.64	-158.63	3,770.12	469.96	4,204.45	4,113.98	90.47	46.475		
4,000.00	3,956.33	3,928.33	3,928.33	15.81	78.61	-158.73	3,770.12	469.96	4,222.88	4,130.06	92.82	45.496		
4,100.00	4,054.36	4,026.36	4,026.36	16.29	80.58	-158.83	3,770.12	469.96	4,241.32	4,146.15	95.17	44.565		
4,200.00	4,152.39	4,124.39	4,124.39	16.77	82.55	-158.92	3,770.12	469.96	4,259.78	4,162.25	97.52	43.679		
4,300.00	4,250.43	4,222.43	4,222.43	17.25	84.52	-159.02	3,770.12	469.96	4,278.24	4,178.36	99.88	42.835		
4,400.00	4,348.46	4,320.46	4,320.46	17.73	86.50	-159.11	3,770.12	469.96	4,296.72	4,194.49	102.23	42.029		
4,500.00	4,446.49	4,418.49	4,418.49	18.21	88.47	-159.20	3,770.12	469.96	4,315.21	4,210.62	104.58	41.260		
4,600.00	4,544.53	4,516.53	4,516.53	18.69	90.44	-159.30	3,770.12	469.96	4,333.71	4,226.77	106.94	40.525		
4,700.00	4,642.56	4,614.56	4,614.56	19.17	92.41	-159.39	3,770.12	469.96	4,352.22	4,242.92	109.29	39.822		
4,800.00	4,740.59	4,712.59	4,712.59	19.65	94.38	-159.48	3,770.12	469.96	4,370.74	4,259.09	111.65	39.148		
4,900.00	4,838.63	4,810.63	4,810.63	20.13	96.35	-159.57	3,770.12	469.96	4,389.27	4,275.27	114.00	38.502		
5,000.00	4,936.66	4,908.66	4,908.66	20.62	98.32	-159.66	3,770.12	469.96	4,407.81	4,291.46	116.36	37.882		

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-20-3N
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-20-3N	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	5,034.69	5,006.69	5,006.69	21.10	100.30	-159.75	3,770.12	469.96	4,426.36	4,307.65	118.71	37.287	
5,200.00	5,132.73	5,104.73	5,104.73	21.59	102.27	-159.83	3,770.12	469.96	4,444.93	4,323.86	121.07	36.715	
5,300.00	5,230.76	5,202.76	5,202.76	22.07	104.24	-159.92	3,770.12	469.96	4,463.50	4,340.08	123.42	36.165	
5,400.00	5,328.79	5,300.79	5,300.79	22.56	106.21	-160.01	3,770.12	469.96	4,482.08	4,356.31	125.78	35.635	
5,500.00	5,426.83	5,401.17	5,398.83	23.04	108.23	-160.09	3,770.12	469.96	4,500.67	4,372.50	128.18	35.112	
5,600.00	5,524.86	5,503.14	5,496.86	23.53	110.28	-160.18	3,770.12	469.96	4,519.28	4,388.66	130.61	34.600	
5,700.00	5,622.89	5,605.11	5,594.89	24.02	112.33	-160.26	3,770.12	469.96	4,537.89	4,404.84	133.05	34.107	
5,800.00	5,720.93	5,707.07	5,692.93	24.50	114.38	-160.35	3,770.12	469.96	4,556.51	4,421.03	135.48	33.632	
5,900.00	5,818.96	5,809.04	5,790.96	24.99	116.43	-160.43	3,770.12	469.96	4,575.14	4,437.22	137.92	33.173	
6,000.00	5,916.99	5,888.99	5,888.99	25.48	118.04	-160.51	3,770.12	469.96	4,593.78	4,453.87	139.91	32.834	
6,100.00	6,015.03	5,987.03	5,987.03	25.97	120.01	-160.59	3,770.12	469.96	4,612.43	4,470.16	142.26	32.422	
6,200.00	6,113.06	6,085.06	6,085.06	26.45	121.98	-160.67	3,770.12	469.96	4,631.09	4,486.47	144.62	32.023	
6,300.00	6,211.09	6,183.09	6,183.09	26.94	123.95	-160.75	3,770.12	469.96	4,649.75	4,502.78	146.97	31.636	
6,400.00	6,309.13	6,281.13	6,281.13	27.43	125.93	-160.83	3,770.12	469.96	4,668.43	4,519.10	149.33	31.262	
6,500.00	6,407.16	6,379.16	6,379.16	27.92	127.90	-160.91	3,770.12	469.96	4,687.11	4,535.43	151.69	30.900	
6,600.00	6,505.19	6,477.19	6,477.19	28.41	129.87	-160.99	3,770.12	469.96	4,705.80	4,551.76	154.04	30.549	
6,664.73	6,568.65	6,540.65	6,540.65	28.73	131.14	-161.04	3,770.12	469.96	4,717.91	4,562.34	155.57	30.327	
6,700.00	6,603.27	6,575.27	6,575.27	28.90	131.84	-161.11	3,770.12	469.96	4,724.30	4,567.91	156.40	30.207	
6,800.00	6,701.84	6,673.84	6,673.84	29.36	133.82	-161.28	3,770.12	469.96	4,740.24	4,581.48	158.76	29.859	
6,900.00	6,800.94	6,772.94	6,772.94	29.78	135.82	-161.41	3,770.12	469.96	4,752.90	4,591.79	161.12	29.500	
7,000.00	6,900.45	6,872.45	6,872.45	30.17	137.82	-161.51	3,770.12	469.96	4,762.29	4,598.81	163.48	29.131	
7,100.00	7,000.24	6,972.24	6,972.24	30.53	139.82	-161.57	3,770.12	469.96	4,768.37	4,602.53	165.84	28.754	
7,200.00	7,100.19	7,072.19	7,072.19	30.85	141.83	-161.60	3,770.12	469.96	4,771.15	4,602.96	168.19	28.368	
7,233.81	7,134.00	7,106.00	7,106.00	30.95	142.51	2.15	3,770.12	469.96	4,771.33	4,602.36	168.98	28.237	
7,300.00	7,200.19	7,172.19	7,172.19	31.12	143.84	2.15	3,770.12	469.96	4,771.33	4,600.82	170.51	27.982	
7,333.81	7,234.00	7,206.00	7,206.00	31.21	144.52	2.15	3,770.12	469.96	4,771.33	4,600.03	171.30	27.854	
7,350.00	7,250.18	7,222.18	7,222.18	31.26	144.85	-177.51	3,770.12	469.96	4,771.56	4,599.88	171.68	27.794	
7,400.00	7,300.04	7,272.04	7,272.04	31.44	145.85	-177.49	3,770.12	469.96	4,775.15	4,602.29	172.86	27.625	
7,450.00	7,349.39	7,321.39	7,321.39	31.66	146.85	-177.46	3,770.12	469.96	4,783.06	4,609.03	174.03	27.484	
7,500.00	7,397.87	7,369.87	7,369.87	31.92	147.82	-177.41	3,770.12	469.96	4,795.24	4,620.05	175.20	27.371	
7,550.00	7,445.09	7,417.09	7,417.09	32.22	148.77	-177.34	3,770.12	469.96	4,811.60	4,635.26	176.34	27.286	
7,600.00	7,490.72	7,462.72	7,462.72	32.55	149.69	-177.25	3,770.12	469.96	4,832.00	4,654.55	177.45	27.230	
7,650.00	7,534.38	7,506.38	7,506.38	32.92	150.57	-177.12	3,770.12	469.96	4,856.30	4,677.78	178.52	27.204 SF	
7,700.00	7,575.77	7,547.77	7,547.77	33.32	151.40	-176.97	3,770.12	469.96	4,884.31	4,704.78	179.53	27.206	
7,750.00	7,614.55	7,586.55	7,586.55	33.75	152.18	-176.76	3,770.12	469.96	4,915.82	4,735.33	180.49	27.236	
7,800.00	7,650.43	7,622.43	7,622.43	34.22	152.90	-176.50	3,770.12	469.96	4,950.58	4,769.21	181.37	27.295	
7,850.00	7,683.15	7,655.15	7,655.15	34.71	153.56	-176.16	3,770.12	469.96	4,988.34	4,806.15	182.18	27.381	
7,900.00	7,712.45	7,684.45	7,684.45	35.23	154.15	-175.71	3,770.12	469.96	5,028.80	4,845.89	182.91	27.494	
7,950.00	7,738.11	7,710.11	7,710.11	35.78	154.66	-175.07	3,770.12	469.96	5,071.66	4,888.12	183.54	27.632	
8,000.00	7,759.93	7,731.93	7,731.93	36.35	155.10	-174.16	3,770.12	469.96	5,116.59	4,932.51	184.08	27.795	
8,050.00	7,777.75	7,749.75	7,749.75	36.93	155.46	-172.73	3,770.12	469.96	5,163.25	4,978.73	184.52	27.982	
8,100.00	7,791.43	7,763.43	7,763.43	37.53	155.73	-170.23	3,770.12	469.96	5,211.29	5,026.42	184.86	28.190	
8,150.00	7,800.87	7,772.87	7,772.87	38.14	155.92	-164.85	3,770.12	469.96	5,260.33	5,075.23	185.10	28.419	
8,200.00	7,806.00	7,778.00	7,778.00	38.76	156.03	-146.49	3,770.12	469.96	5,310.02	5,124.78	185.24	28.666	
8,233.89	7,807.00	7,779.00	7,779.00	39.18	156.05	-89.96	3,770.12	469.96	5,343.86	5,158.60	185.27	28.844	
8,300.00	7,807.00	7,779.00	7,779.00	40.00	156.05	-89.96	3,770.12	469.96	5,409.92	5,224.63	185.29	29.198	
8,400.00	7,807.00	7,779.00	7,779.00	41.29	156.05	-89.96	3,770.12	469.96	5,509.85	5,324.54	185.31	29.733	
8,500.00	7,806.99	7,778.99	7,778.99	42.60	156.05	-89.96	3,770.12	469.96	5,609.78	5,424.44	185.34	30.267	
8,600.00	7,806.99	7,778.99	7,778.99	43.95	156.05	-89.96	3,770.12	469.96	5,709.71	5,524.34	185.37	30.802	
8,700.00	7,806.99	7,778.99	7,778.99	45.33	156.05	-89.96	3,770.12	469.96	5,809.65	5,624.25	185.40	31.336	
8,800.00	7,806.99	7,778.99	7,778.99	46.74	156.05	-89.96	3,770.12	469.96	5,909.58	5,724.16	185.43	31.870	
8,900.00	7,806.98	7,778.98	7,778.98	48.17	156.05	-89.96	3,770.12	469.96	6,009.52	5,824.07	185.46	32.404	

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-20-3N
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-20-3N	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	7,806.98	7,778.98	7,778.98	49.62	156.05	-89.96	3,770.12	469.96	6,109.46	5,923.98	185.49	32.937		
9,100.00	7,806.98	7,778.98	7,778.98	51.09	156.05	-89.96	3,770.12	469.96	6,209.41	6,023.89	185.52	33.470		
9,200.00	7,806.98	7,778.98	7,778.98	52.59	156.05	-89.96	3,770.12	469.96	6,309.35	6,123.80	185.55	34.003		
9,300.00	7,806.97	7,778.97	7,778.97	54.09	156.05	-89.96	3,770.12	469.96	6,409.30	6,223.71	185.59	34.536		
9,400.00	7,806.97	7,778.97	7,778.97	55.62	156.05	-89.96	3,770.12	469.96	6,509.25	6,323.63	185.62	35.068		
9,500.00	7,806.97	7,778.97	7,778.97	57.16	156.05	-89.95	3,770.12	469.96	6,609.20	6,423.54	185.65	35.600		
9,600.00	7,806.97	7,778.97	7,778.97	58.71	156.05	-89.95	3,770.12	469.96	6,709.15	6,523.46	185.69	36.131		
9,700.00	7,806.96	7,778.96	7,778.96	60.27	156.05	-89.95	3,770.12	469.96	6,809.10	6,623.38	185.72	36.663		
9,800.00	7,806.96	7,778.96	7,778.96	61.84	156.05	-89.95	3,770.12	469.96	6,909.06	6,723.30	185.76	37.194		
9,900.00	7,806.96	7,778.96	7,778.96	63.43	156.05	-89.95	3,770.12	469.96	7,009.01	6,823.22	185.80	37.724		
10,000.00	7,806.96	7,778.96	7,778.96	65.02	156.05	-89.95	3,770.12	469.96	7,108.97	6,923.13	185.83	38.254		
10,100.00	7,806.95	7,778.95	7,778.95	66.63	156.05	-89.95	3,770.12	469.96	7,208.93	7,023.05	185.87	38.784		
10,200.00	7,806.95	7,778.95	7,778.95	68.24	156.05	-89.95	3,770.12	469.96	7,308.89	7,122.97	185.91	39.314		
10,300.00	7,806.95	7,778.95	7,778.95	69.86	156.05	-89.95	3,770.12	469.96	7,408.85	7,222.89	185.95	39.843		
10,400.00	7,806.95	7,778.95	7,778.95	71.49	156.05	-89.95	3,770.12	469.96	7,508.81	7,322.82	185.99	40.372		
10,500.00	7,806.94	7,778.94	7,778.94	73.12	156.05	-89.95	3,770.12	469.96	7,608.77	7,422.74	186.03	40.900		
10,600.00	7,806.94	7,778.94	7,778.94	74.76	156.05	-89.95	3,770.12	469.96	7,708.73	7,522.66	186.07	41.428		
10,700.00	7,806.94	7,778.94	7,778.94	76.41	156.05	-89.95	3,770.12	469.96	7,808.70	7,622.58	186.12	41.956		
10,800.00	7,806.94	7,778.94	7,778.94	78.06	156.05	-89.95	3,770.12	469.96	7,908.66	7,722.50	186.16	42.483		
10,900.00	7,806.93	7,778.93	7,778.93	79.72	156.05	-89.94	3,770.12	469.96	8,008.63	7,822.42	186.20	43.010		
11,000.00	7,806.93	7,778.93	7,778.93	81.38	156.05	-89.94	3,770.12	469.96	8,108.59	7,922.35	186.25	43.536		
11,100.00	7,806.93	7,778.93	7,778.93	83.05	156.05	-89.94	3,770.12	469.96	8,208.56	8,022.27	186.29	44.062		
11,200.00	7,806.93	7,778.93	7,778.93	84.72	156.05	-89.94	3,770.12	469.96	8,308.53	8,122.19	186.34	44.588		
11,300.00	7,806.92	7,778.92	7,778.92	86.39	156.05	-89.94	3,770.12	469.96	8,408.50	8,222.11	186.39	45.113		
11,400.00	7,806.92	7,778.92	7,778.92	88.07	156.05	-89.94	3,770.12	469.96	8,508.47	8,322.04	186.43	45.638		
11,500.00	7,806.92	7,778.92	7,778.92	89.75	156.05	-89.94	3,770.12	469.96	8,608.44	8,421.96	186.48	46.162		
11,600.00	7,806.92	7,778.92	7,778.92	91.44	156.05	-89.94	3,770.12	469.96	8,708.41	8,521.88	186.53	46.686		
11,700.00	7,806.91	7,778.91	7,778.91	93.13	156.05	-89.94	3,770.12	469.96	8,808.38	8,621.80	186.58	47.210		
11,800.00	7,806.91	7,778.91	7,778.91	94.82	156.05	-89.94	3,770.12	469.96	8,908.36	8,721.72	186.63	47.732		
11,900.00	7,806.91	7,778.91	7,778.91	96.52	156.05	-89.94	3,770.12	469.96	9,008.33	8,821.65	186.68	48.255		
12,000.00	7,806.91	7,778.91	7,778.91	98.21	156.05	-89.94	3,770.12	469.96	9,108.30	8,921.57	186.73	48.777		
12,100.00	7,806.90	7,778.90	7,778.90	99.91	156.05	-89.94	3,770.12	469.96	9,208.28	9,021.49	186.79	49.299		
12,200.00	7,806.90	7,778.90	7,778.90	101.62	156.05	-89.94	3,770.12	469.96	9,308.25	9,121.41	186.84	49.820		
12,300.00	7,806.90	7,778.90	7,778.90	103.32	156.05	-89.94	3,770.12	469.96	9,408.23	9,221.33	186.89	50.340		
12,400.00	7,806.90	7,778.90	7,778.90	105.03	156.05	-89.93	3,770.12	469.96	9,508.20	9,321.26	186.95	50.860		
12,500.00	7,806.89	7,778.89	7,778.89	106.74	156.05	-89.93	3,770.12	469.96	9,608.18	9,421.18	187.00	51.380		
12,600.00	7,806.89	7,778.89	7,778.89	108.45	156.05	-89.93	3,770.12	469.96	9,708.16	9,521.10	187.06	51.899		
12,700.00	7,806.89	7,778.89	7,778.89	110.17	156.05	-89.93	3,770.12	469.96	9,808.13	9,621.02	187.12	52.418		
12,800.00	7,806.89	7,778.89	7,778.89	111.88	156.05	-89.93	3,770.12	469.96	9,908.11	9,720.94	187.17	52.936		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	-47.34	2,354.67	-2,555.15	3,474.66					
100.00	100.00	123.00	123.00	0.13	1.69	-47.34	2,354.67	-2,555.15	3,474.66	3,472.84	1.82	1,907.708		
200.00	200.00	223.00	223.00	0.49	3.94	-47.34	2,354.67	-2,555.15	3,474.66	3,470.23	4.43	784.716		
300.00	300.00	323.00	323.00	0.85	6.01	-47.34	2,354.67	-2,555.15	3,474.66	3,467.80	6.86	506.734		
400.00	400.00	423.00	423.00	1.21	8.04	-47.34	2,354.67	-2,555.15	3,474.66	3,465.41	9.25	375.446		
500.00	500.00	523.00	523.00	1.57	10.07	-47.34	2,354.67	-2,555.15	3,474.66	3,463.02	11.64	298.488		
600.00	600.00	623.00	623.00	1.93	12.09	-47.34	2,354.67	-2,555.15	3,474.66	3,460.64	14.02	247.812		
700.00	700.00	723.00	723.00	2.29	14.11	-47.34	2,354.67	-2,555.15	3,474.66	3,458.26	16.40	211.887		
800.00	800.00	823.00	823.00	2.64	16.13	-47.34	2,354.67	-2,555.15	3,474.66	3,455.89	18.77	185.079		
900.00	900.00	923.00	923.00	3.00	18.15	-47.34	2,354.67	-2,555.15	3,474.66	3,453.51	21.15	164.303		
1,000.00	1,000.00	1,023.00	1,023.00	3.36	20.16	-47.34	2,354.67	-2,555.15	3,474.66	3,451.14	23.52	147.726		
1,100.00	1,100.00	1,123.00	1,123.00	3.72	22.17	-47.34	2,354.67	-2,555.15	3,474.66	3,448.77	25.89	134.191		
1,200.00	1,200.00	1,223.00	1,223.00	4.08	24.19	-47.34	2,354.67	-2,555.15	3,474.66	3,446.40	28.27	122.931		
1,300.00	1,300.00	1,323.00	1,323.00	4.44	26.20	-47.34	2,354.67	-2,555.15	3,474.66	3,444.02	30.64	113.415		
1,400.00	1,400.00	1,423.00	1,423.00	4.79	28.21	-47.34	2,354.67	-2,555.15	3,474.66	3,441.65	33.01	105.267 CC		
1,500.00	1,499.98	1,522.98	1,522.98	5.14	30.23	148.90	2,354.67	-2,555.15	3,476.16	3,440.79	35.36	98.306 ES		
1,600.00	1,599.84	1,622.84	1,622.84	5.46	32.23	148.90	2,354.67	-2,555.15	3,480.64	3,442.94	37.70	92.332		
1,700.00	1,699.45	1,722.45	1,722.45	5.80	34.24	148.90	2,354.67	-2,555.15	3,488.11	3,448.08	40.03	87.133		
1,800.00	1,798.70	1,821.70	1,821.70	6.14	36.24	148.89	2,354.67	-2,555.15	3,498.56	3,456.20	42.36	82.582		
1,900.00	1,897.47	1,920.47	1,920.47	6.49	38.22	148.88	2,354.67	-2,555.15	3,512.00	3,467.31	44.69	78.581		
1,969.08	1,965.35	1,988.35	1,988.35	6.75	39.59	148.88	2,354.67	-2,555.15	3,523.02	3,476.73	46.30	76.094		
2,000.00	1,995.66	2,018.66	2,018.66	6.86	40.20	148.93	2,354.67	-2,555.15	3,528.28	3,481.26	47.02	75.044		
2,100.00	2,093.69	2,116.69	2,116.69	7.25	42.17	149.09	2,354.67	-2,555.15	3,545.28	3,495.94	49.34	71.856		
2,200.00	2,191.72	2,214.72	2,214.72	7.65	44.14	149.25	2,354.67	-2,555.15	3,562.31	3,510.65	51.67	68.948		
2,300.00	2,289.76	2,312.76	2,312.76	8.07	46.11	149.41	2,354.67	-2,555.15	3,579.37	3,525.37	54.00	66.284		
2,400.00	2,387.79	2,410.79	2,410.79	8.49	48.09	149.57	2,354.67	-2,555.15	3,596.46	3,540.13	56.34	63.837		
2,500.00	2,485.82	2,508.82	2,508.82	8.91	50.06	149.73	2,354.67	-2,555.15	3,613.58	3,554.90	58.68	61.581		
2,600.00	2,583.86	2,606.86	2,606.86	9.35	52.03	149.89	2,354.67	-2,555.15	3,630.72	3,569.70	61.02	59.496		
2,700.00	2,681.89	2,704.89	2,704.89	9.79	54.00	150.04	2,354.67	-2,555.15	3,647.89	3,584.52	63.37	57.563		
2,800.00	2,779.92	2,802.92	2,802.92	10.24	55.97	150.19	2,354.67	-2,555.15	3,665.08	3,599.36	65.72	55.767		
2,900.00	2,877.96	2,900.96	2,900.96	10.69	57.95	150.35	2,354.67	-2,555.15	3,682.30	3,614.23	68.07	54.093		
3,000.00	2,975.99	3,001.01	2,998.99	11.14	59.96	150.50	2,354.67	-2,555.15	3,699.55	3,629.08	70.47	52.500		
3,100.00	3,074.02	3,102.98	3,097.02	11.60	62.01	150.65	2,354.67	-2,555.15	3,716.82	3,643.91	72.90	50.984		
3,200.00	3,172.06	3,204.94	3,195.06	12.06	64.06	150.79	2,354.67	-2,555.15	3,734.11	3,658.77	75.34	49.565		
3,300.00	3,270.09	3,306.91	3,293.09	12.52	66.11	150.94	2,354.67	-2,555.15	3,751.43	3,673.65	77.77	48.235		
3,400.00	3,368.12	3,408.88	3,391.12	12.98	68.16	151.09	2,354.67	-2,555.15	3,768.77	3,688.56	80.21	46.985		
3,500.00	3,466.16	3,489.16	3,489.16	13.45	69.78	151.23	2,354.67	-2,555.15	3,786.14	3,703.92	82.21	46.052		
3,600.00	3,564.19	3,587.19	3,587.19	13.92	71.75	151.37	2,354.67	-2,555.15	3,803.52	3,718.95	84.57	44.972		
3,700.00	3,662.23	3,685.23	3,685.23	14.39	73.72	151.51	2,354.67	-2,555.15	3,820.94	3,734.00	86.94	43.951		
3,800.00	3,760.26	3,783.26	3,783.26	14.86	75.69	151.65	2,354.67	-2,555.15	3,838.37	3,749.07	89.30	42.984		
3,900.00	3,858.29	3,881.29	3,881.29	15.34	77.66	151.79	2,354.67	-2,555.15	3,855.82	3,764.17	91.66	42.067		
4,000.00	3,956.33	3,979.33	3,979.33	15.81	79.63	151.93	2,354.67	-2,555.15	3,873.30	3,779.28	94.02	41.196		
4,100.00	4,054.36	4,077.36	4,077.36	16.29	81.61	152.06	2,354.67	-2,555.15	3,890.80	3,794.42	96.38	40.368		
4,200.00	4,152.39	4,175.39	4,175.39	16.77	83.58	152.20	2,354.67	-2,555.15	3,908.32	3,809.57	98.75	39.579		
4,300.00	4,250.43	4,273.43	4,273.43	17.25	85.55	152.33	2,354.67	-2,555.15	3,925.86	3,824.75	101.11	38.828		
4,400.00	4,348.46	4,371.46	4,371.46	17.73	87.52	152.47	2,354.67	-2,555.15	3,943.43	3,839.95	103.47	38.111		
4,500.00	4,446.49	4,469.49	4,469.49	18.21	89.49	152.60	2,354.67	-2,555.15	3,961.01	3,855.17	105.84	37.426		
4,600.00	4,544.53	4,567.53	4,567.53	18.69	91.46	152.73	2,354.67	-2,555.15	3,978.61	3,870.41	108.20	36.771		
4,700.00	4,642.56	4,665.56	4,665.56	19.17	93.44	152.86	2,354.67	-2,555.15	3,996.23	3,885.67	110.56	36.144		
4,800.00	4,740.59	4,763.59	4,763.59	19.65	95.41	152.98	2,354.67	-2,555.15	4,013.88	3,900.95	112.93	35.544		
4,900.00	4,838.63	4,861.63	4,861.63	20.13	97.38	153.11	2,354.67	-2,555.15	4,031.54	3,916.25	115.29	34.968		
5,000.00	4,936.66	4,959.66	4,959.66	20.62	99.35	153.24	2,354.67	-2,555.15	4,049.22	3,931.56	117.66	34.416		

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-20-3N
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-20-3N	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	5,034.69	5,057.69	5,057.69	21.10	101.32	153.36	2,354.67	-2,555.15	4,066.92	3,946.90	120.02	33.885		
5,200.00	5,132.73	5,155.73	5,155.73	21.59	103.29	153.49	2,354.67	-2,555.15	4,084.64	3,962.25	122.38	33.376		
5,300.00	5,230.76	5,253.76	5,253.76	22.07	105.26	153.61	2,354.67	-2,555.15	4,102.37	3,977.63	124.75	32.885		
5,400.00	5,328.79	5,351.79	5,351.79	22.56	107.24	153.73	2,354.67	-2,555.15	4,120.13	3,993.02	127.11	32.413		
5,500.00	5,426.83	5,449.83	5,449.83	23.04	109.21	153.85	2,354.67	-2,555.15	4,137.90	4,008.43	129.48	31.959		
5,600.00	5,524.86	5,547.86	5,547.86	23.53	111.18	153.97	2,354.67	-2,555.15	4,155.69	4,023.85	131.84	31.521		
5,700.00	5,622.89	5,645.89	5,645.89	24.02	113.15	154.09	2,354.67	-2,555.15	4,173.50	4,039.30	134.20	31.098		
5,800.00	5,720.93	5,743.93	5,743.93	24.50	115.12	154.21	2,354.67	-2,555.15	4,191.33	4,054.76	136.57	30.691		
5,900.00	5,818.96	5,841.96	5,841.96	24.99	117.09	154.32	2,354.67	-2,555.15	4,209.17	4,070.24	138.93	30.297		
6,000.00	5,916.99	5,939.99	5,939.99	25.48	119.07	154.44	2,354.67	-2,555.15	4,227.03	4,085.73	141.29	29.917		
6,100.00	6,015.03	6,038.03	6,038.03	25.97	121.04	154.55	2,354.67	-2,555.15	4,244.90	4,101.25	143.66	29.549		
6,200.00	6,113.06	6,136.06	6,136.06	26.45	123.01	154.67	2,354.67	-2,555.15	4,262.80	4,116.78	146.02	29.193		
6,300.00	6,211.09	6,234.09	6,234.09	26.94	124.98	154.78	2,354.67	-2,555.15	4,280.70	4,132.32	148.38	28.849		
6,400.00	6,309.13	6,332.13	6,332.13	27.43	126.95	154.89	2,354.67	-2,555.15	4,298.63	4,147.88	150.75	28.515		
6,500.00	6,407.16	6,430.16	6,430.16	27.92	128.92	155.00	2,354.67	-2,555.15	4,316.57	4,163.46	153.11	28.193		
6,600.00	6,505.19	6,528.19	6,528.19	28.41	130.89	155.11	2,354.67	-2,555.15	4,334.53	4,179.05	155.47	27.880		
6,664.73	6,568.65	6,608.35	6,591.65	28.73	132.51	155.18	2,354.67	-2,555.15	4,346.16	4,188.82	157.34	27.623		
6,700.00	6,603.27	6,626.27	6,626.27	28.90	132.87	155.27	2,354.67	-2,555.15	4,352.30	4,194.47	157.84	27.575		
6,800.00	6,701.84	6,724.84	6,724.84	29.36	134.85	155.49	2,354.67	-2,555.15	4,367.62	4,207.42	160.20	27.263		
6,900.00	6,800.94	6,823.94	6,823.94	29.78	136.84	155.67	2,354.67	-2,555.15	4,379.80	4,217.23	162.57	26.942		
7,000.00	6,900.45	6,923.45	6,923.45	30.17	138.84	155.79	2,354.67	-2,555.15	4,388.82	4,223.90	164.93	26.610		
7,100.00	7,000.24	7,023.24	7,023.24	30.53	140.85	155.88	2,354.67	-2,555.15	4,394.68	4,227.39	167.29	26.270		
7,200.00	7,100.19	7,123.19	7,123.19	30.85	142.86	155.91	2,354.67	-2,555.15	4,397.35	4,227.71	169.64	25.922		
7,233.81	7,134.00	7,157.00	7,157.00	30.95	143.54	-40.33	2,354.67	-2,555.15	4,397.53	4,227.11	170.42	25.803		
7,300.00	7,200.19	7,223.19	7,223.19	31.12	144.87	-40.33	2,354.67	-2,555.15	4,397.53	4,225.57	171.96	25.573		
7,333.81	7,234.00	7,257.00	7,257.00	31.21	145.55	-40.33	2,354.67	-2,555.15	4,397.53	4,224.79	172.74	25.457		
7,350.00	7,250.18	7,273.18	7,273.18	31.26	145.88	140.00	2,354.67	-2,555.15	4,397.70	4,224.59	173.12	25.403		
7,400.00	7,300.04	7,323.04	7,323.04	31.44	146.88	139.86	2,354.67	-2,555.15	4,400.46	4,226.16	174.30	25.246		
7,450.00	7,349.39	7,372.39	7,372.39	31.66	147.87	139.53	2,354.67	-2,555.15	4,406.53	4,231.04	175.49	25.110		
7,500.00	7,397.87	7,420.87	7,420.87	31.92	148.85	139.01	2,354.67	-2,555.15	4,415.89	4,239.22	176.67	24.995		
7,550.00	7,445.09	7,468.09	7,468.09	32.22	149.80	138.28	2,354.67	-2,555.15	4,428.48	4,250.64	177.84	24.901		
7,600.00	7,490.72	7,513.72	7,513.72	32.55	150.71	137.34	2,354.67	-2,555.15	4,444.23	4,265.24	178.99	24.829		
7,650.00	7,534.38	7,557.38	7,557.38	32.92	151.59	136.15	2,354.67	-2,555.15	4,463.03	4,282.92	180.11	24.780		
7,700.00	7,575.77	7,601.24	7,598.77	33.32	152.47	134.69	2,354.67	-2,555.15	4,484.76	4,303.53	181.23	24.746 SF		
7,750.00	7,614.55	7,637.55	7,637.55	33.75	153.20	132.91	2,354.67	-2,555.15	4,509.29	4,327.09	182.20	24.749		
7,800.00	7,650.43	7,673.43	7,673.43	34.22	153.92	130.78	2,354.67	-2,555.15	4,536.46	4,353.29	183.16	24.767		
7,850.00	7,683.15	7,706.15	7,706.15	34.71	154.58	128.24	2,354.67	-2,555.15	4,566.08	4,382.02	184.06	24.808		
7,900.00	7,712.45	7,735.45	7,735.45	35.23	155.17	125.23	2,354.67	-2,555.15	4,597.96	4,413.08	184.88	24.870		
7,950.00	7,738.11	7,761.11	7,761.11	35.78	155.69	121.69	2,354.67	-2,555.15	4,631.87	4,446.25	185.62	24.953		
8,000.00	7,759.93	7,782.93	7,782.93	36.35	156.13	117.56	2,354.67	-2,555.15	4,667.58	4,481.31	186.28	25.057		
8,050.00	7,777.75	7,800.75	7,800.75	36.93	156.49	112.78	2,354.67	-2,555.15	4,704.83	4,518.00	186.84	25.181		
8,100.00	7,791.43	7,814.43	7,814.43	37.53	156.76	107.33	2,354.67	-2,555.15	4,743.36	4,556.05	187.31	25.324		
8,150.00	7,800.87	7,823.87	7,823.87	38.14	156.95	101.26	2,354.67	-2,555.15	4,782.87	4,595.20	187.68	25.485		
8,200.00	7,806.00	7,829.00	7,829.00	38.76	157.05	94.67	2,354.67	-2,555.15	4,823.08	4,635.13	187.95	25.662		
8,233.89	7,807.00	7,830.00	7,830.00	39.18	157.07	90.00	2,354.67	-2,555.15	4,850.57	4,662.50	188.07	25.791		
8,300.00	7,807.00	7,830.00	7,830.00	40.00	157.07	90.00	2,354.67	-2,555.15	4,904.45	4,716.18	188.27	26.050		
8,400.00	7,807.00	7,830.00	7,830.00	41.29	157.07	90.00	2,354.67	-2,555.15	4,986.51	4,797.94	188.58	26.443		
8,500.00	7,806.99	7,829.99	7,829.99	42.60	157.07	90.00	2,354.67	-2,555.15	5,069.22	4,880.34	188.88	26.838		
8,600.00	7,806.99	7,829.99	7,829.99	43.95	157.07	90.00	2,354.67	-2,555.15	5,152.54	4,963.35	189.19	27.235		
8,700.00	7,806.99	7,829.99	7,829.99	45.33	157.07	90.00	2,354.67	-2,555.15	5,236.45	5,046.95	189.50	27.633		
8,800.00	7,806.99	7,829.99	7,829.99	46.74	157.07	90.00	2,354.67	-2,555.15	5,320.91	5,131.10	189.81	28.033		
8,900.00	7,806.98	7,829.98	7,829.98	48.17	157.07	90.00	2,354.67	-2,555.15	5,405.90	5,215.79	190.12	28.435		

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-20-3N
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-20-3N	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	7,806.98	7,829.98	7,829.98	49.62	157.07	90.00	2,354.67	-2,555.15	5,491.40	5,300.98	190.42	28.838		
9,100.00	7,806.98	7,829.98	7,829.98	51.09	157.07	90.00	2,354.67	-2,555.15	5,577.38	5,386.66	190.72	29.243		
9,200.00	7,806.98	7,829.98	7,829.98	52.59	157.07	90.00	2,354.67	-2,555.15	5,663.82	5,472.80	191.02	29.650		
9,300.00	7,806.97	7,829.97	7,829.97	54.09	157.07	90.00	2,354.67	-2,555.15	5,750.70	5,559.38	191.32	30.058		
9,400.00	7,806.97	7,829.97	7,829.97	55.62	157.07	90.00	2,354.67	-2,555.15	5,838.00	5,646.39	191.62	30.467		
9,500.00	7,806.97	7,829.97	7,829.97	57.16	157.07	90.00	2,354.67	-2,555.15	5,925.71	5,733.80	191.91	30.878		
9,600.00	7,806.97	7,829.97	7,829.97	58.71	157.07	90.00	2,354.67	-2,555.15	6,013.79	5,821.60	192.19	31.291		
9,700.00	7,806.96	7,829.96	7,829.96	60.27	157.07	90.00	2,354.67	-2,555.15	6,102.25	5,909.77	192.47	31.704		
9,800.00	7,806.96	7,829.96	7,829.96	61.84	157.07	90.00	2,354.67	-2,555.15	6,191.05	5,998.30	192.75	32.119		
9,900.00	7,806.96	7,829.96	7,829.96	63.43	157.07	90.00	2,354.67	-2,555.15	6,280.19	6,087.16	193.03	32.535		
10,000.00	7,806.96	7,829.96	7,829.96	65.02	157.07	90.00	2,354.67	-2,555.15	6,369.65	6,176.36	193.30	32.953		
10,100.00	7,806.95	7,829.95	7,829.95	66.63	157.07	90.00	2,354.67	-2,555.15	6,459.43	6,265.87	193.56	33.371		
10,200.00	7,806.95	7,829.95	7,829.95	68.24	157.07	90.00	2,354.67	-2,555.15	6,549.50	6,355.67	193.82	33.791		
10,300.00	7,806.95	7,829.95	7,829.95	69.86	157.07	90.00	2,354.67	-2,555.15	6,639.85	6,445.77	194.08	34.212		
10,400.00	7,806.95	7,829.95	7,829.95	71.49	157.07	90.00	2,354.67	-2,555.15	6,730.47	6,536.14	194.33	34.634		
10,500.00	7,806.94	7,829.94	7,829.94	73.12	157.07	90.00	2,354.67	-2,555.15	6,821.36	6,626.78	194.58	35.057		
10,600.00	7,806.94	7,829.94	7,829.94	74.76	157.07	90.00	2,354.67	-2,555.15	6,912.50	6,717.68	194.83	35.480		
10,700.00	7,806.94	7,829.94	7,829.94	76.41	157.07	90.00	2,354.67	-2,555.15	7,003.88	6,808.82	195.07	35.905		
10,800.00	7,806.94	7,829.94	7,829.94	78.06	157.07	90.00	2,354.67	-2,555.15	7,095.50	6,900.19	195.30	36.331		
10,900.00	7,806.93	7,829.93	7,829.93	79.72	157.07	90.00	2,354.67	-2,555.15	7,187.33	6,991.80	195.54	36.757		
11,000.00	7,806.93	7,829.93	7,829.93	81.38	157.07	90.00	2,354.67	-2,555.15	7,279.39	7,083.62	195.77	37.184		
11,100.00	7,806.93	7,829.93	7,829.93	83.05	157.07	90.00	2,354.67	-2,555.15	7,371.65	7,175.66	195.99	37.612		
11,200.00	7,806.93	7,829.93	7,829.93	84.72	157.07	90.00	2,354.67	-2,555.15	7,464.11	7,267.89	196.21	38.041		
11,300.00	7,806.92	7,829.92	7,829.92	86.39	157.07	90.00	2,354.67	-2,555.15	7,556.76	7,360.33	196.43	38.470		
11,400.00	7,806.92	7,829.92	7,829.92	88.07	157.07	90.00	2,354.67	-2,555.15	7,649.59	7,452.95	196.64	38.901		
11,500.00	7,806.92	7,829.92	7,829.92	89.75	157.07	90.00	2,354.67	-2,555.15	7,742.61	7,545.75	196.86	39.331		
11,600.00	7,806.92	7,829.92	7,829.92	91.44	157.07	90.00	2,354.67	-2,555.15	7,835.79	7,638.73	197.06	39.763		
11,700.00	7,806.91	7,829.91	7,829.91	93.13	157.07	90.00	2,354.67	-2,555.15	7,929.15	7,731.88	197.27	40.195		
11,800.00	7,806.91	7,829.91	7,829.91	94.82	157.07	90.00	2,354.67	-2,555.15	8,022.66	7,825.19	197.47	40.627		
11,900.00	7,806.91	7,829.91	7,829.91	96.52	157.07	90.00	2,354.67	-2,555.15	8,116.33	7,918.66	197.67	41.061		
12,000.00	7,806.91	7,829.91	7,829.91	98.21	157.07	90.00	2,354.67	-2,555.15	8,210.14	8,012.28	197.86	41.494		
12,100.00	7,806.90	7,829.90	7,829.90	99.91	157.07	90.00	2,354.67	-2,555.15	8,304.11	8,106.05	198.06	41.928		
12,200.00	7,806.90	7,829.90	7,829.90	101.62	157.07	90.00	2,354.67	-2,555.15	8,398.21	8,199.96	198.24	42.363		
12,300.00	7,806.90	7,829.90	7,829.90	103.32	157.07	90.00	2,354.67	-2,555.15	8,492.44	8,294.01	198.43	42.798		
12,400.00	7,806.90	7,829.90	7,829.90	105.03	157.07	90.00	2,354.67	-2,555.15	8,586.81	8,388.19	198.62	43.233		
12,500.00	7,806.89	7,829.89	7,829.89	106.74	157.07	90.00	2,354.67	-2,555.15	8,681.30	8,482.50	198.80	43.669		
12,600.00	7,806.89	7,829.89	7,829.89	108.45	157.07	90.00	2,354.67	-2,555.15	8,775.91	8,576.94	198.98	44.105		
12,700.00	7,806.89	7,829.89	7,829.89	110.17	157.07	90.00	2,354.67	-2,555.15	8,870.65	8,671.49	199.15	44.542		
12,800.00	7,806.89	7,829.89	7,829.89	111.88	157.07	90.00	2,354.67	-2,555.15	8,965.49	8,766.17	199.33	44.979		
12,900.00	7,806.88	7,829.88	7,829.88	113.60	157.07	90.00	2,354.67	-2,555.15	9,060.45	8,860.95	199.50	45.416		
13,000.00	7,806.88	7,829.88	7,829.88	115.32	157.07	90.00	2,354.67	-2,555.15	9,155.52	8,955.85	199.67	45.854		
13,100.00	7,806.88	7,829.88	7,829.88	117.04	157.07	90.00	2,354.67	-2,555.15	9,250.68	9,050.85	199.84	46.291		
13,200.00	7,806.88	7,829.88	7,829.88	118.76	157.07	90.00	2,354.67	-2,555.15	9,345.95	9,145.95	200.00	46.729		
13,300.00	7,806.87	7,829.87	7,829.87	120.48	157.07	90.00	2,354.67	-2,555.15	9,441.32	9,241.16	200.17	47.168		
13,400.00	7,806.87	7,829.87	7,829.87	122.21	157.07	90.00	2,354.67	-2,555.15	9,536.78	9,336.46	200.33	47.606		
13,500.00	7,806.87	7,829.87	7,829.87	123.94	157.07	90.00	2,354.67	-2,555.15	9,632.34	9,431.85	200.49	48.045		
13,600.00	7,806.87	7,829.87	7,829.87	125.66	157.07	90.00	2,354.67	-2,555.15	9,727.98	9,527.34	200.64	48.484		
13,700.00	7,806.86	7,829.86	7,829.86	127.39	157.07	90.00	2,354.67	-2,555.15	9,823.71	9,622.91	200.80	48.923		
13,800.00	7,806.86	7,829.86	7,829.86	129.12	157.07	90.00	2,354.67	-2,555.15	9,919.53	9,718.58	200.95	49.362		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	91.28	-15.06	672.25	672.42					
100.00	100.00	103.00	103.00	0.13	1.25	91.28	-15.06	672.25	672.42	671.03	1.39	484.413		
200.00	200.00	203.00	203.00	0.49	3.54	91.28	-15.06	672.25	672.42	668.39	4.03	166.739		
300.00	300.00	303.00	303.00	0.85	5.62	91.28	-15.06	672.25	672.42	665.95	6.47	103.950		
400.00	400.00	403.00	403.00	1.21	7.66	91.28	-15.06	672.25	672.42	663.55	8.87	75.817		
500.00	500.00	503.00	503.00	1.57	9.69	91.28	-15.06	672.25	672.42	661.16	11.26	59.737		
600.00	600.00	603.00	603.00	1.93	11.71	91.28	-15.06	672.25	672.42	658.78	13.64	49.307		
700.00	700.00	703.00	703.00	2.29	13.73	91.28	-15.06	672.25	672.42	656.40	16.02	41.986		
800.00	800.00	803.00	803.00	2.64	15.75	91.28	-15.06	672.25	672.42	654.03	18.39	36.563		
900.00	900.00	903.00	903.00	3.00	17.76	91.28	-15.06	672.25	672.42	651.66	20.76	32.382		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	91.28	-15.06	672.25	672.42	649.28	23.14	29.061		
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	91.28	-15.06	672.25	672.42	646.91	25.51	26.358		
1,200.00	1,200.00	1,203.00	1,203.00	4.08	23.81	91.28	-15.06	672.25	672.42	644.54	27.88	24.116		
1,300.00	1,300.00	1,303.00	1,303.00	4.44	25.82	91.28	-15.06	672.25	672.42	642.17	30.25	22.226		
1,400.00	1,400.00	1,403.00	1,403.00	4.79	27.83	91.28	-15.06	672.25	672.42	639.79	32.63	20.610		
1,500.00	1,499.98	1,502.98	1,502.98	5.14	29.84	-72.63	-15.06	672.25	671.90	636.92	34.98	19.209		
1,600.00	1,599.84	1,602.84	1,602.84	5.46	31.85	-73.08	-15.06	672.25	670.35	633.04	37.31	17.965		
1,700.00	1,699.45	1,702.45	1,702.45	5.80	33.86	-73.84	-15.06	672.25	667.86	628.21	39.65	16.844		
1,800.00	1,798.70	1,801.70	1,801.70	6.14	35.85	-74.91	-15.06	672.25	664.56	622.57	41.99	15.827		
1,900.00	1,897.47	1,900.47	1,900.47	6.49	37.84	-76.28	-15.06	672.25	660.62	616.29	44.33	14.903		
1,969.08	1,965.35	1,968.35	1,968.35	6.75	39.21	-77.40	-15.06	672.25	657.65	611.70	45.95	14.313		
2,000.00	1,995.66	2,001.34	1,998.66	6.86	39.87	-77.91	-15.06	672.25	656.32	609.59	46.73	14.045		
2,100.00	2,093.69	2,103.31	2,096.69	7.25	41.92	-79.58	-15.06	672.25	652.40	603.23	49.17	13.268		
2,200.00	2,191.72	2,205.28	2,194.72	7.65	43.97	-81.26	-15.06	672.25	649.05	597.43	51.62	12.573		
2,300.00	2,289.76	2,307.24	2,292.76	8.07	46.02	-82.95	-15.06	672.25	646.28	592.20	54.08	11.949		
2,400.00	2,387.79	2,409.21	2,390.79	8.49	48.08	-84.66	-15.06	672.25	644.11	587.56	56.56	11.389		
2,500.00	2,485.82	2,488.82	2,488.82	8.91	49.68	-86.38	-15.06	672.25	642.54	583.95	58.59	10.967		
2,600.00	2,583.86	2,586.86	2,586.86	9.35	51.65	-88.11	-15.06	672.25	641.57	580.58	61.00	10.518		
2,700.00	2,681.89	2,684.89	2,684.89	9.79	53.62	-89.83	-15.06	672.25	641.21	577.80	63.41	10.112		
2,709.65	2,691.35	2,705.65	2,694.35	9.83	54.04	-90.00	-15.06	672.25	641.21	577.34	63.87	10.039 CC		
2,800.00	2,779.92	2,782.92	2,782.92	10.24	55.59	-91.56	-15.06	672.25	641.46	575.63	65.83	9.744		
2,900.00	2,877.96	2,880.96	2,880.96	10.69	57.56	-93.29	-15.06	672.25	642.31	574.06	68.25	9.411		
3,000.00	2,975.99	2,978.99	2,978.99	11.14	59.54	-95.01	-15.06	672.25	643.76	573.09	70.67	9.109		
3,100.00	3,074.02	3,077.02	3,077.02	11.60	61.51	-96.72	-15.06	672.25	645.82	572.73	73.09	8.836 ES		
3,200.00	3,172.06	3,175.06	3,175.06	12.06	63.48	-98.42	-15.06	672.25	648.47	572.95	75.51	8.587		
3,300.00	3,270.09	3,273.09	3,273.09	12.52	65.45	-100.10	-15.06	672.25	651.71	573.77	77.94	8.362		
3,400.00	3,368.12	3,371.12	3,371.12	12.98	67.42	-101.77	-15.06	672.25	655.52	575.16	80.36	8.158		
3,500.00	3,466.16	3,469.16	3,469.16	13.45	69.39	-103.41	-15.06	672.25	659.91	577.13	82.78	7.972		
3,600.00	3,564.19	3,567.19	3,567.19	13.92	71.37	-105.04	-15.06	672.25	664.85	579.65	85.19	7.804		
3,700.00	3,662.23	3,665.23	3,665.23	14.39	73.34	-106.64	-15.06	672.25	670.33	582.73	87.60	7.652		
3,800.00	3,760.26	3,763.26	3,763.26	14.86	75.31	-108.21	-15.06	672.25	676.35	586.33	90.01	7.514		
3,900.00	3,858.29	3,861.29	3,861.29	15.34	77.28	-109.76	-15.06	672.25	682.88	590.46	92.42	7.389		
4,000.00	3,956.33	3,959.33	3,959.33	15.81	79.25	-111.27	-15.06	672.25	689.92	595.10	94.82	7.276		
4,100.00	4,054.36	4,057.36	4,057.36	16.29	81.22	-112.76	-15.06	672.25	697.45	600.22	97.22	7.174		
4,200.00	4,152.39	4,155.39	4,155.39	16.77	83.20	-114.21	-15.06	672.25	705.44	605.82	99.62	7.081		
4,300.00	4,250.43	4,253.43	4,253.43	17.25	85.17	-115.63	-15.06	672.25	713.90	611.89	102.01	6.998		
4,400.00	4,348.46	4,351.46	4,351.46	17.73	87.14	-117.02	-15.06	672.25	722.79	618.39	104.40	6.924		
4,500.00	4,446.49	4,449.49	4,449.49	18.21	89.11	-118.38	-15.06	672.25	732.11	625.33	106.78	6.856		
4,600.00	4,544.53	4,547.53	4,547.53	18.69	91.08	-119.70	-15.06	672.25	741.83	632.67	109.16	6.796		
4,700.00	4,642.56	4,645.56	4,645.56	19.17	93.05	-120.99	-15.06	672.25	751.95	640.41	111.54	6.742		
4,800.00	4,740.59	4,743.59	4,743.59	19.65	95.02	-122.24	-15.06	672.25	762.44	648.54	113.91	6.694		
4,900.00	4,838.63	4,841.63	4,841.63	20.13	97.00	-123.46	-15.06	672.25	773.30	657.02	116.28	6.651		

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-20-3N
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-20-3N	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	4,936.66	4,939.66	4,939.66	20.62	98.97	-124.65	-15.06	672.25	784.50	665.86	118.64	6.612	
5,100.00	5,034.69	5,037.69	5,037.69	21.10	100.94	-125.80	-15.06	672.25	796.03	675.03	121.00	6.579	
5,200.00	5,132.73	5,135.73	5,135.73	21.59	102.91	-126.92	-15.06	672.25	807.88	684.52	123.36	6.549	
5,300.00	5,230.76	5,233.76	5,233.76	22.07	104.88	-128.01	-15.06	672.25	820.04	694.32	125.72	6.523	
5,400.00	5,328.79	5,331.79	5,331.79	22.56	106.85	-129.07	-15.06	672.25	832.48	704.41	128.08	6.500	
5,500.00	5,426.83	5,429.83	5,429.83	23.04	108.83	-130.09	-15.06	672.25	845.21	714.78	130.43	6.480	
5,600.00	5,524.86	5,527.86	5,527.86	23.53	110.80	-131.09	-15.06	672.25	858.19	725.41	132.78	6.463	
5,700.00	5,622.89	5,625.89	5,625.89	24.02	112.77	-132.06	-15.06	672.25	871.43	736.31	135.13	6.449	
5,800.00	5,720.93	5,723.93	5,723.93	24.50	114.74	-133.00	-15.06	672.25	884.92	747.44	137.47	6.437	
5,900.00	5,818.96	5,821.96	5,821.96	24.99	116.71	-133.91	-15.06	672.25	898.63	758.81	139.82	6.427	
6,000.00	5,916.99	5,919.99	5,919.99	25.48	118.68	-134.79	-15.06	672.25	912.57	770.40	142.16	6.419	
6,100.00	6,015.03	6,018.03	6,018.03	25.97	120.65	-135.65	-15.06	672.25	926.71	782.21	144.50	6.413	
6,200.00	6,113.06	6,116.06	6,116.06	26.45	122.63	-136.48	-15.06	672.25	941.06	794.21	146.84	6.409	
6,300.00	6,211.09	6,214.09	6,214.09	26.94	124.60	-137.29	-15.06	672.25	955.60	806.41	149.18	6.406	
6,400.00	6,309.13	6,312.13	6,312.13	27.43	126.57	-138.07	-15.06	672.25	970.32	818.80	151.52	6.404	
6,500.00	6,407.16	6,410.16	6,410.16	27.92	128.54	-138.83	-15.06	672.25	985.22	831.36	153.86	6.403	
6,600.00	6,505.19	6,508.19	6,508.19	28.41	130.51	-139.57	-15.06	672.25	1,000.28	844.09	156.20	6.404	
6,664.73	6,568.65	6,571.65	6,571.65	28.73	131.79	-140.04	-15.06	672.25	1,010.12	852.41	157.71	6.405	
6,700.00	6,603.27	6,606.27	6,606.27	28.90	132.48	-140.35	-15.06	672.25	1,015.34	856.81	158.53	6.405	
6,800.00	6,701.84	6,704.84	6,704.84	29.36	134.47	-141.11	-15.06	672.25	1,028.43	867.56	160.87	6.393	
6,900.00	6,800.94	6,803.94	6,803.94	29.78	136.46	-141.70	-15.06	672.25	1,038.91	875.69	163.21	6.365	
7,000.00	6,900.45	6,903.45	6,903.45	30.17	138.46	-142.13	-15.06	672.25	1,046.71	881.15	165.56	6.322	
7,100.00	7,000.24	7,003.24	7,003.24	30.53	140.47	-142.41	-15.06	672.25	1,051.78	883.88	167.90	6.264	
7,200.00	7,100.19	7,103.19	7,103.19	30.85	142.48	-142.53	-15.06	672.25	1,054.10	883.87	170.23	6.192	
7,233.81	7,134.00	7,137.00	7,137.00	30.95	143.16	21.22	-15.06	672.25	1,054.26	883.24	171.02	6.165	
7,300.00	7,200.19	7,203.19	7,203.19	31.12	144.49	21.22	-15.06	672.25	1,054.26	881.72	172.54	6.110	
7,333.81	7,234.00	7,237.00	7,237.00	31.21	145.17	21.22	-15.06	672.25	1,054.26	880.93	173.32	6.083	
7,350.00	7,250.18	7,253.18	7,253.18	31.26	145.49	-158.44	-15.06	672.25	1,054.47	880.77	173.70	6.071	
7,400.00	7,300.04	7,303.04	7,303.04	31.44	146.50	-158.39	-15.06	672.25	1,057.81	882.94	174.87	6.049 SF	
7,450.00	7,349.39	7,352.39	7,352.39	31.66	147.49	-158.27	-15.06	672.25	1,065.19	889.15	176.04	6.051	
7,500.00	7,397.87	7,400.87	7,400.87	31.92	148.46	-158.08	-15.06	672.25	1,076.55	899.35	177.20	6.075	
7,550.00	7,445.09	7,448.09	7,448.09	32.22	149.41	-157.79	-15.06	672.25	1,091.84	913.51	178.34	6.122	
7,600.00	7,490.72	7,493.72	7,493.72	32.55	150.58	-157.41	-15.06	672.25	1,110.96	931.27	179.69	6.182	
7,650.00	7,534.38	7,537.38	7,537.38	32.92	151.21	-156.88	-15.06	672.25	1,133.79	953.28	180.51	6.281	
7,700.00	7,575.77	7,578.77	7,578.77	33.32	152.04	-156.19	-15.06	672.25	1,160.17	978.65	181.52	6.391	
7,750.00	7,614.55	7,617.55	7,617.55	33.75	152.82	-155.27	-15.06	672.25	1,189.94	1,007.47	182.48	6.521	
7,800.00	7,650.43	7,653.43	7,653.43	34.22	153.54	-154.07	-15.06	672.25	1,222.90	1,039.53	183.36	6.669	
7,850.00	7,683.15	7,686.15	7,686.15	34.71	154.20	-152.49	-15.06	672.25	1,258.80	1,074.62	184.18	6.835	
7,900.00	7,712.45	7,715.45	7,715.45	35.23	154.79	-150.38	-15.06	672.25	1,297.39	1,112.48	184.90	7.017	
7,950.00	7,738.11	7,741.11	7,741.11	35.78	155.31	-147.54	-15.06	672.25	1,338.39	1,152.84	185.55	7.213	
8,000.00	7,759.93	7,762.93	7,762.93	36.35	155.74	-143.65	-15.06	672.25	1,381.49	1,195.40	186.09	7.424	
8,050.00	7,777.75	7,780.75	7,780.75	36.93	156.10	-138.18	-15.06	672.25	1,426.38	1,239.84	186.54	7.646	
8,100.00	7,791.43	7,794.43	7,794.43	37.53	156.60	-130.34	-15.06	672.25	1,472.70	1,285.59	187.11	7.871	
8,150.00	7,800.87	7,803.87	7,803.87	38.14	156.57	-118.96	-15.06	672.25	1,520.12	1,332.98	187.14	8.123	
8,200.00	7,806.00	7,809.00	7,809.00	38.76	156.67	-103.05	-15.06	672.25	1,568.25	1,380.97	187.28	8.374	
8,233.89	7,807.00	7,810.00	7,810.00	39.18	156.69	-89.99	-15.06	672.25	1,601.09	1,413.78	187.32	8.547	
8,300.00	7,807.00	7,810.00	7,810.00	40.00	156.69	-89.99	-15.06	672.25	1,665.31	1,477.97	187.35	8.889	
8,400.00	7,807.00	7,810.00	7,810.00	41.29	156.69	-89.99	-15.06	672.25	1,762.72	1,575.33	187.39	9.407	
8,500.00	7,806.99	7,809.99	7,809.99	42.60	156.69	-89.99	-15.06	672.25	1,860.41	1,672.98	187.42	9.926	
8,600.00	7,806.99	7,809.99	7,809.99	43.95	156.69	-89.99	-15.06	672.25	1,958.32	1,770.86	187.46	10.447	
8,700.00	7,806.99	7,809.99	7,809.99	45.33	156.69	-89.99	-15.06	672.25	2,056.44	1,868.95	187.50	10.968	
8,800.00	7,806.99	7,809.99	7,809.99	46.74	156.69	-89.99	-15.06	672.25	2,154.74	1,967.21	187.53	11.490	

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-20-3N
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-20-3N	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	7,806.98	7,809.98	7,809.98	48.17	156.69	-89.99	-15.06	672.25	2,253.18	2,065.62	187.56	12.013		
9,000.00	7,806.98	7,809.98	7,809.98	49.62	156.69	-89.99	-15.06	672.25	2,351.75	2,164.16	187.59	12.536		
9,100.00	7,806.98	7,809.98	7,809.98	51.09	156.69	-89.99	-15.06	672.25	2,450.44	2,262.81	187.63	13.060		
9,200.00	7,806.98	7,809.98	7,809.98	52.59	156.69	-89.99	-15.06	672.25	2,549.23	2,361.57	187.66	13.584		
9,300.00	7,806.97	7,809.97	7,809.97	54.09	156.69	-89.99	-15.06	672.25	2,648.12	2,460.42	187.69	14.109		
9,400.00	7,806.97	7,809.97	7,809.97	55.62	156.69	-89.99	-15.06	672.25	2,747.08	2,559.35	187.72	14.634		
9,500.00	7,806.97	7,809.97	7,809.97	57.16	156.69	-89.99	-15.06	672.25	2,846.11	2,658.36	187.76	15.159		
9,600.00	7,806.97	7,809.97	7,809.97	58.71	156.69	-89.99	-15.06	672.25	2,945.21	2,757.43	187.79	15.684		
9,700.00	7,806.96	7,809.96	7,809.96	60.27	156.69	-89.99	-15.06	672.25	3,044.37	2,856.55	187.82	16.209		
9,800.00	7,806.96	7,809.96	7,809.96	61.84	156.69	-89.99	-15.06	672.25	3,143.59	2,955.73	187.85	16.734		
9,900.00	7,806.96	7,809.96	7,809.96	63.43	156.69	-89.99	-15.06	672.25	3,242.85	3,054.96	187.89	17.259		
10,000.00	7,806.96	7,809.96	7,809.96	65.02	156.69	-89.99	-15.06	672.25	3,342.15	3,154.23	187.92	17.785		
10,100.00	7,806.95	7,809.95	7,809.95	66.63	156.69	-89.99	-15.06	672.25	3,441.50	3,253.54	187.96	18.310		
10,200.00	7,806.95	7,809.95	7,809.95	68.24	156.69	-89.99	-15.06	672.25	3,540.88	3,352.89	187.99	18.835		
10,300.00	7,806.95	7,809.95	7,809.95	69.86	156.69	-89.99	-15.06	672.25	3,640.30	3,452.27	188.03	19.360		
10,400.00	7,806.95	7,809.95	7,809.95	71.49	156.69	-89.99	-15.06	672.25	3,739.75	3,551.68	188.06	19.885		
10,500.00	7,806.94	7,809.94	7,809.94	73.12	156.69	-89.99	-15.06	672.25	3,839.22	3,651.12	188.10	20.410		
10,600.00	7,806.94	7,809.94	7,809.94	74.76	156.69	-89.99	-15.06	672.25	3,938.72	3,750.58	188.14	20.935		
10,700.00	7,806.94	7,809.94	7,809.94	76.41	156.69	-89.99	-15.06	672.25	4,038.25	3,850.07	188.18	21.460		
10,800.00	7,806.94	7,809.94	7,809.94	78.06	156.69	-89.98	-15.06	672.25	4,137.80	3,949.58	188.22	21.984		
10,900.00	7,806.93	7,809.93	7,809.93	79.72	156.69	-89.98	-15.06	672.25	4,237.37	4,049.12	188.26	22.509		
11,000.00	7,806.93	7,809.93	7,809.93	81.38	156.69	-89.98	-15.06	672.25	4,336.96	4,148.67	188.30	23.033		
11,100.00	7,806.93	7,809.93	7,809.93	83.05	156.69	-89.98	-15.06	672.25	4,436.57	4,248.24	188.34	23.557		
11,200.00	7,806.93	7,809.93	7,809.93	84.72	156.69	-89.98	-15.06	672.25	4,536.20	4,347.82	188.38	24.080		
11,300.00	7,806.92	7,809.92	7,809.92	86.39	156.69	-89.98	-15.06	672.25	4,635.84	4,447.42	188.42	24.604		
11,400.00	7,806.92	7,809.92	7,809.92	88.07	156.69	-89.98	-15.06	672.25	4,735.50	4,547.04	188.46	25.127		
11,500.00	7,806.92	7,809.92	7,809.92	89.75	156.69	-89.98	-15.06	672.25	4,835.17	4,646.66	188.51	25.650		
11,600.00	7,806.92	7,809.92	7,809.92	91.44	156.69	-89.98	-15.06	672.25	4,934.86	4,746.31	188.55	26.173		
11,700.00	7,806.91	7,809.91	7,809.91	93.13	156.69	-89.98	-15.06	672.25	5,034.55	4,845.96	188.60	26.695		
11,800.00	7,806.91	7,809.91	7,809.91	94.82	156.69	-89.98	-15.06	672.25	5,134.26	4,945.62	188.64	27.217		
11,900.00	7,806.91	7,809.91	7,809.91	96.52	156.69	-89.98	-15.06	672.25	5,233.98	5,045.30	188.69	27.739		
12,000.00	7,806.91	7,809.91	7,809.91	98.21	156.69	-89.98	-15.06	672.25	5,333.71	5,144.98	188.73	28.260		
12,100.00	7,806.90	7,809.90	7,809.90	99.91	156.69	-89.98	-15.06	672.25	5,433.45	5,244.67	188.78	28.782		
12,200.00	7,806.90	7,809.90	7,809.90	101.62	156.69	-89.98	-15.06	672.25	5,533.20	5,344.37	188.83	29.302		
12,300.00	7,806.90	7,809.90	7,809.90	103.32	156.69	-89.98	-15.06	672.25	5,632.96	5,444.08	188.88	29.823		
12,400.00	7,806.90	7,809.90	7,809.90	105.03	156.69	-89.98	-15.06	672.25	5,732.73	5,543.80	188.93	30.343		
12,500.00	7,806.89	7,809.89	7,809.89	106.74	156.69	-89.98	-15.06	672.25	5,832.51	5,643.53	188.98	30.863		
12,600.00	7,806.89	7,809.89	7,809.89	108.45	156.69	-89.98	-15.06	672.25	5,932.29	5,743.26	189.03	31.383		
12,700.00	7,806.89	7,809.89	7,809.89	110.17	156.69	-89.98	-15.06	672.25	6,032.08	5,843.00	189.08	31.902		
12,800.00	7,806.89	7,809.89	7,809.89	111.88	156.69	-89.98	-15.06	672.25	6,131.88	5,942.74	189.14	32.420		
12,900.00	7,806.88	7,809.88	7,809.88	113.60	156.69	-89.98	-15.06	672.25	6,231.68	6,042.49	189.19	32.939		
13,000.00	7,806.88	7,809.88	7,809.88	115.32	156.69	-89.98	-15.06	672.25	6,331.49	6,142.25	189.24	33.457		
13,100.00	7,806.88	7,809.88	7,809.88	117.04	156.69	-89.98	-15.06	672.25	6,431.30	6,242.01	189.30	33.974		
13,200.00	7,806.88	7,809.88	7,809.88	118.76	156.69	-89.98	-15.06	672.25	6,531.13	6,341.77	189.35	34.492		
13,300.00	7,806.87	7,809.87	7,809.87	120.48	156.69	-89.98	-15.06	672.25	6,630.95	6,441.54	189.41	35.009		
13,400.00	7,806.87	7,809.87	7,809.87	122.21	156.69	-89.98	-15.06	672.25	6,730.78	6,541.32	189.47	35.525		
13,500.00	7,806.87	7,809.87	7,809.87	123.94	156.69	-89.97	-15.06	672.25	6,830.62	6,641.10	189.52	36.041		
13,600.00	7,806.87	7,809.87	7,809.87	125.66	156.69	-89.97	-15.06	672.25	6,930.46	6,740.88	189.58	36.557		
13,700.00	7,806.86	7,809.86	7,809.86	127.39	156.69	-89.97	-15.06	672.25	7,030.31	6,840.67	189.64	37.072		
13,800.00	7,806.86	7,809.86	7,809.86	129.12	156.69	-89.97	-15.06	672.25	7,130.16	6,940.46	189.70	37.586		
13,900.00	7,806.86	7,809.86	7,809.86	130.85	156.69	-89.97	-15.06	672.25	7,230.01	7,040.25	189.76	38.101		
14,000.00	7,806.86	7,809.86	7,809.86	132.59	156.69	-89.97	-15.06	672.25	7,329.87	7,140.05	189.82	38.615		

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-20-3N
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-20-3N	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	
14,100.00	7,806.85	7,809.85	7,809.85	134.32	156.69	-89.97	-15.06	672.25	7,429.73	7,239.85	189.88	39.128	
14,200.00	7,806.85	7,809.85	7,809.85	136.06	156.69	-89.97	-15.06	672.25	7,529.60	7,339.65	189.95	39.641	
14,300.00	7,806.85	7,809.85	7,809.85	137.79	156.69	-89.97	-15.06	672.25	7,629.47	7,439.46	190.01	40.153	
14,400.00	7,806.85	7,809.85	7,809.85	139.53	156.69	-89.97	-15.06	672.25	7,729.34	7,539.27	190.07	40.665	
14,500.00	7,806.84	7,809.84	7,809.84	141.27	156.69	-89.97	-15.06	672.25	7,829.22	7,639.08	190.14	41.177	
14,600.00	7,806.84	7,809.84	7,809.84	143.00	156.69	-89.97	-15.06	672.25	7,929.10	7,738.90	190.20	41.688	
14,700.00	7,806.84	7,809.84	7,809.84	144.74	156.69	-89.97	-15.06	672.25	8,028.98	7,838.71	190.27	42.199	
14,800.00	7,806.84	7,809.84	7,809.84	146.48	156.69	-89.97	-15.06	672.25	8,128.86	7,938.53	190.33	42.709	
14,900.00	7,806.83	7,809.83	7,809.83	148.22	156.69	-89.97	-15.06	672.25	8,228.75	8,038.35	190.40	43.218	
15,000.00	7,806.83	7,809.83	7,809.83	149.97	156.69	-89.97	-15.06	672.25	8,328.64	8,138.17	190.47	43.727	
15,100.00	7,806.83	7,809.83	7,809.83	151.71	156.69	-89.97	-15.06	672.25	8,428.53	8,238.00	190.54	44.236	
15,200.00	7,806.83	7,809.83	7,809.83	153.45	156.69	-89.97	-15.06	672.25	8,528.43	8,337.83	190.60	44.744	
15,300.00	7,806.82	7,809.82	7,809.82	155.19	156.69	-89.97	-15.06	672.25	8,628.33	8,437.65	190.67	45.252	
15,400.00	7,806.82	7,809.82	7,809.82	156.94	156.69	-89.97	-15.06	672.25	8,728.23	8,537.48	190.74	45.759	
15,500.00	7,806.82	7,809.82	7,809.82	158.68	156.69	-89.97	-15.06	672.25	8,828.13	8,637.32	190.81	46.266	
15,600.00	7,806.82	7,809.82	7,809.82	160.43	156.69	-89.97	-15.06	672.25	8,928.04	8,737.15	190.89	46.772	
15,700.00	7,806.81	7,809.81	7,809.81	162.18	156.69	-89.97	-15.06	672.25	9,027.94	8,836.99	190.96	47.277	
15,800.00	7,806.81	7,809.81	7,809.81	163.92	156.69	-89.97	-15.06	672.25	9,127.85	8,936.82	191.03	47.782	
15,900.00	7,806.81	7,809.81	7,809.81	165.67	156.69	-89.97	-15.06	672.25	9,227.76	9,036.66	191.10	48.287	
16,000.00	7,806.81	7,809.81	7,809.81	167.42	156.69	-89.97	-15.06	672.25	9,327.68	9,136.50	191.18	48.791	
16,100.00	7,806.80	7,809.80	7,809.80	169.17	156.69	-89.97	-15.06	672.25	9,427.59	9,236.34	191.25	49.294	
16,200.00	7,806.80	7,809.80	7,809.80	170.91	156.69	-89.96	-15.06	672.25	9,527.51	9,336.18	191.33	49.797	
16,300.00	7,806.80	7,809.80	7,809.80	172.66	156.69	-89.96	-15.06	672.25	9,627.42	9,436.02	191.40	50.300	
16,400.00	7,806.80	7,809.80	7,809.80	174.41	156.69	-89.96	-15.06	672.25	9,727.34	9,535.87	191.48	50.801	
16,500.00	7,806.79	7,809.79	7,809.79	176.16	156.69	-89.96	-15.06	672.25	9,827.27	9,635.71	191.55	51.303	
16,600.00	7,806.79	7,809.79	7,809.79	177.92	156.69	-89.96	-15.06	672.25	9,927.19	9,735.56	191.63	51.803	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	143.89	-433.98	316.55	537.43					
100.00	100.00	83.00	83.00	0.13	0.97	143.89	-433.98	316.55	537.16	536.06	1.11	485.309		
200.00	200.00	183.00	183.00	0.49	3.08	143.89	-433.98	316.55	537.16	533.60	3.57	150.474		
300.00	300.00	283.00	283.00	0.85	5.19	143.89	-433.98	316.55	537.16	531.12	6.04	88.877		
400.00	400.00	383.00	383.00	1.21	7.24	143.89	-433.98	316.55	537.16	528.71	8.45	63.563		
500.00	500.00	483.00	483.00	1.57	9.27	143.89	-433.98	316.55	537.16	526.32	10.84	49.551		
600.00	600.00	583.00	583.00	1.93	11.30	143.89	-433.98	316.55	537.16	523.94	13.22	40.623		
700.00	700.00	683.00	683.00	2.29	13.32	143.89	-433.98	316.55	537.16	521.56	15.60	34.431		
800.00	800.00	783.00	783.00	2.64	15.33	143.89	-433.98	316.55	537.16	519.19	17.98	29.880		
900.00	900.00	883.00	883.00	3.00	17.35	143.89	-433.98	316.55	537.16	516.81	20.35	26.394		
1,000.00	1,000.00	983.00	983.00	3.36	19.36	143.89	-433.98	316.55	537.16	514.44	22.73	23.637		
1,100.00	1,100.00	1,083.00	1,083.00	3.72	21.38	143.89	-433.98	316.55	537.16	512.07	25.10	21.403		
1,200.00	1,200.00	1,183.00	1,183.00	4.08	23.39	143.89	-433.98	316.55	537.16	509.70	27.47	19.555		
1,300.00	1,300.00	1,283.00	1,283.00	4.44	25.41	143.89	-433.98	316.55	537.16	507.32	29.84	18.001		
1,400.00	1,400.00	1,383.00	1,383.00	4.79	27.42	143.89	-433.98	316.55	537.16	504.95	32.21	16.675		
1,500.00	1,499.98	1,482.98	1,482.98	5.14	29.43	-19.94	-433.98	316.55	535.52	500.96	34.57	15.493		
1,600.00	1,599.84	1,582.84	1,582.84	5.46	31.44	-20.17	-433.98	316.55	530.61	493.70	36.90	14.379		
1,700.00	1,699.45	1,682.45	1,682.45	5.80	33.44	-20.55	-433.98	316.55	522.43	483.19	39.24	13.314		
1,800.00	1,798.70	1,781.70	1,781.70	6.14	35.44	-21.12	-433.98	316.55	511.03	469.46	41.57	12.293		
1,900.00	1,897.47	1,880.47	1,880.47	6.49	37.43	-21.87	-433.98	316.55	496.45	452.56	43.90	11.310		
1,969.08	1,965.35	1,948.35	1,948.35	6.75	38.79	-22.53	-433.98	316.55	484.56	439.06	45.50	10.650		
2,000.00	1,995.66	1,978.66	1,978.66	6.86	39.40	-22.81	-433.98	316.55	478.91	432.70	46.22	10.363		
2,100.00	2,093.69	2,076.69	2,076.69	7.25	41.38	-23.76	-433.98	316.55	460.73	412.19	48.53	9.493		
2,200.00	2,191.72	2,174.72	2,174.72	7.65	43.35	-24.78	-433.98	316.55	442.68	391.82	50.86	8.704		
2,300.00	2,289.76	2,272.76	2,272.76	8.07	45.32	-25.89	-433.98	316.55	424.78	371.59	53.19	7.986		
2,400.00	2,387.79	2,370.79	2,370.79	8.49	47.29	-27.10	-433.98	316.55	407.05	351.52	55.53	7.330		
2,500.00	2,485.82	2,468.82	2,468.82	8.91	49.26	-28.42	-433.98	316.55	389.51	331.63	57.87	6.730		
2,600.00	2,583.86	2,566.86	2,566.86	9.35	51.24	-29.86	-433.98	316.55	372.19	311.96	60.23	6.180		
2,700.00	2,681.89	2,664.89	2,664.89	9.79	53.21	-31.44	-433.98	316.55	355.12	292.53	62.59	5.674		
2,800.00	2,779.92	2,762.92	2,762.92	10.24	55.18	-33.17	-433.98	316.55	338.35	273.39	64.96	5.209		
2,900.00	2,877.96	2,860.96	2,860.96	10.69	57.15	-35.08	-433.98	316.55	321.91	254.57	67.34	4.780		
3,000.00	2,975.99	2,958.99	2,958.99	11.14	59.12	-37.19	-433.98	316.55	305.86	236.12	69.73	4.386		
3,100.00	3,074.02	3,057.02	3,057.02	11.60	61.10	-39.52	-433.98	316.55	290.26	218.12	72.14	4.024		
3,200.00	3,172.06	3,155.06	3,155.06	12.06	63.07	-42.12	-433.98	316.55	275.20	200.64	74.56	3.691		
3,300.00	3,270.09	3,253.09	3,253.09	12.52	65.04	-45.00	-433.98	316.55	260.76	183.76	77.00	3.387		
3,400.00	3,368.12	3,351.12	3,351.12	12.98	67.01	-48.20	-433.98	316.55	247.05	167.60	79.45	3.109		
3,500.00	3,466.16	3,449.16	3,449.16	13.45	68.98	-51.76	-433.98	316.55	234.21	152.28	81.93	2.859		
3,600.00	3,564.19	3,547.19	3,547.19	13.92	70.95	-55.70	-433.98	316.55	222.38	137.95	84.43	2.634		
3,700.00	3,662.23	3,645.23	3,645.23	14.39	72.93	-60.05	-433.98	316.55	211.73	124.78	86.94	2.435		
3,800.00	3,760.26	3,743.26	3,743.26	14.86	74.90	-64.82	-433.98	316.55	202.44	112.97	89.47	2.263		
3,900.00	3,858.29	3,841.29	3,841.29	15.34	76.87	-69.99	-433.98	316.55	194.72	102.71	92.01	2.116		
4,000.00	3,956.33	3,939.33	3,939.33	15.81	78.84	-75.52	-433.98	316.55	188.76	94.22	94.54	1.997		
4,100.00	4,054.36	4,037.36	4,037.36	16.29	80.81	-81.35	-433.98	316.55	184.72	87.66	97.06	1.903		
4,200.00	4,152.39	4,135.39	4,135.39	16.77	82.78	-87.35	-433.98	316.55	182.74	83.19	99.55	1.836		
4,243.60	4,195.14	4,178.14	4,178.14	16.98	83.64	-90.00	-433.98	316.55	182.54	81.92	100.62	1.814 CC		
4,300.00	4,250.43	4,233.43	4,233.43	17.25	84.75	-93.42	-433.98	316.55	182.88	80.88	101.99	1.793		
4,400.00	4,348.46	4,331.46	4,331.46	17.73	86.73	-99.41	-433.98	316.55	185.13	80.74	104.39	1.773 ES, SF		
4,500.00	4,446.49	4,429.49	4,429.49	18.21	88.70	-105.20	-433.98	316.55	189.42	82.68	106.74	1.775		
4,600.00	4,544.53	4,527.53	4,527.53	18.69	90.67	-110.69	-433.98	316.55	195.62	86.57	109.04	1.794		
4,700.00	4,642.56	4,625.56	4,625.56	19.17	92.64	-115.81	-433.98	316.55	203.55	92.23	111.32	1.829		
4,800.00	4,740.59	4,723.59	4,723.59	19.65	94.61	-120.53	-433.98	316.55	213.02	99.45	113.57	1.876		
4,900.00	4,838.63	4,821.63	4,821.63	20.13	96.58	-124.83	-433.98	316.55	223.83	108.03	115.80	1.933		

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-20-3N
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-20-3N	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	4,936.66	4,919.66	4,919.66	20.62	98.56	-128.72	-433.98	316.55	235.80	117.77	118.03	1.998		
5,100.00	5,034.69	5,017.69	5,017.69	21.10	100.53	-132.23	-433.98	316.55	248.76	128.50	120.26	2.069		
5,200.00	5,132.73	5,115.73	5,115.73	21.59	102.50	-135.39	-433.98	316.55	262.57	140.08	122.49	2.144		
5,300.00	5,230.76	5,213.76	5,213.76	22.07	104.47	-138.23	-433.98	316.55	277.09	152.36	124.73	2.222		
5,400.00	5,328.79	5,311.79	5,311.79	22.56	106.44	-140.79	-433.98	316.55	292.23	165.25	126.98	2.301		
5,500.00	5,426.83	5,409.83	5,409.83	23.04	108.41	-143.09	-433.98	316.55	307.89	178.66	129.23	2.382		
5,600.00	5,524.86	5,507.86	5,507.86	23.53	110.38	-145.18	-433.98	316.55	323.99	192.50	131.49	2.464		
5,700.00	5,622.89	5,605.89	5,605.89	24.02	112.36	-147.06	-433.98	316.55	340.48	206.72	133.76	2.545		
5,800.00	5,720.93	5,703.93	5,703.93	24.50	114.33	-148.77	-433.98	316.55	357.29	221.26	136.04	2.626		
5,900.00	5,818.96	5,801.96	5,801.96	24.99	116.30	-150.33	-433.98	316.55	374.39	236.08	138.32	2.707		
6,000.00	5,916.99	5,900.01	5,899.99	25.48	118.27	-151.76	-433.98	316.55	391.74	251.14	140.61	2.786		
6,100.00	6,015.03	6,001.97	5,998.03	25.97	120.32	-153.06	-433.98	316.55	409.31	266.33	142.98	2.863		
6,200.00	6,113.06	6,103.94	6,096.06	26.45	122.37	-154.25	-433.98	316.55	427.06	281.70	145.35	2.938		
6,300.00	6,211.09	6,205.91	6,194.09	26.94	124.42	-155.35	-433.98	316.55	444.98	297.24	147.74	3.012		
6,400.00	6,309.13	6,307.87	6,292.13	27.43	126.47	-156.37	-433.98	316.55	463.05	312.93	150.12	3.084		
6,500.00	6,407.16	6,409.84	6,390.16	27.92	128.52	-157.31	-433.98	316.55	481.25	328.74	152.51	3.156		
6,600.00	6,505.19	6,488.19	6,488.19	28.41	130.10	-158.18	-433.98	316.55	499.56	345.14	154.43	3.235		
6,664.73	6,568.65	6,551.65	6,551.65	28.73	131.38	-158.71	-433.98	316.55	511.48	355.55	155.93	3.280		
6,700.00	6,603.27	6,586.27	6,586.27	28.90	132.07	-159.03	-433.98	316.55	517.78	361.04	156.74	3.303		
6,800.00	6,701.84	6,684.84	6,684.84	29.36	134.05	-159.78	-433.98	316.55	533.55	374.47	159.07	3.354		
6,900.00	6,800.94	6,783.94	6,783.94	29.78	136.05	-160.35	-433.98	316.55	546.12	384.71	161.41	3.383		
7,000.00	6,900.45	6,883.45	6,883.45	30.17	138.05	-160.75	-433.98	316.55	555.45	391.69	163.75	3.392		
7,100.00	7,000.24	6,983.24	6,983.24	30.53	140.05	-161.01	-433.98	316.55	561.51	395.41	166.10	3.381		
7,200.00	7,100.19	7,083.19	7,083.19	30.85	142.07	-161.12	-433.98	316.55	564.27	395.83	168.44	3.350		
7,233.81	7,134.00	7,117.00	7,117.00	30.95	142.74	2.63	-433.98	316.55	564.46	395.23	169.23	3.335		
7,300.00	7,200.19	7,183.19	7,183.19	31.12	144.08	2.63	-433.98	316.55	564.46	393.69	170.77	3.305		
7,333.81	7,234.00	7,217.00	7,217.00	31.21	144.76	2.63	-433.98	316.55	564.46	392.90	171.56	3.290		
7,350.00	7,250.18	7,233.18	7,233.18	31.26	145.08	-177.03	-433.98	316.55	564.69	392.75	171.94	3.284		
7,400.00	7,300.04	7,283.04	7,283.04	31.44	146.08	-177.03	-433.98	316.55	568.28	395.16	173.11	3.283		
7,450.00	7,349.39	7,332.39	7,332.39	31.66	147.08	-177.03	-433.98	316.55	576.19	401.90	174.29	3.306		
7,500.00	7,397.87	7,380.87	7,380.87	31.92	148.05	-177.03	-433.98	316.55	588.36	412.91	175.45	3.353		
7,550.00	7,445.09	7,428.09	7,428.09	32.22	149.00	-177.02	-433.98	316.55	604.71	428.13	176.59	3.424		
7,600.00	7,490.72	7,473.72	7,473.72	32.55	149.92	-177.01	-433.98	316.55	625.11	447.42	177.69	3.518		
7,650.00	7,534.38	7,517.38	7,517.38	32.92	150.80	-176.97	-433.98	316.55	649.41	470.65	178.76	3.633		
7,700.00	7,575.77	7,558.77	7,558.77	33.32	151.63	-176.92	-433.98	316.55	677.42	497.65	179.77	3.768		
7,750.00	7,614.55	7,602.45	7,597.55	33.75	152.51	-176.84	-433.98	316.55	708.92	528.11	180.81	3.921		
7,800.00	7,650.43	7,633.43	7,633.43	34.22	153.13	-176.73	-433.98	316.55	743.69	562.09	181.60	4.095		
7,850.00	7,683.15	7,666.15	7,666.15	34.71	153.79	-176.55	-433.98	316.55	781.45	599.05	182.40	4.284		
7,900.00	7,712.45	7,704.55	7,695.45	35.23	154.56	-176.30	-433.98	316.55	821.92	638.62	183.30	4.484		
7,950.00	7,738.11	7,721.11	7,721.11	35.78	154.89	-175.93	-433.98	316.55	864.79	681.04	183.75	4.706		
8,000.00	7,759.93	7,742.93	7,742.93	36.35	155.33	-175.37	-433.98	316.55	909.73	725.46	184.28	4.937		
8,050.00	7,777.75	7,760.75	7,760.75	36.93	155.69	-174.47	-433.98	316.55	956.41	771.70	184.71	5.178		
8,100.00	7,791.43	7,774.43	7,774.43	37.53	155.97	-172.84	-433.98	316.55	1,004.47	819.42	185.05	5.428		
8,150.00	7,800.87	7,783.87	7,783.87	38.14	156.16	-169.24	-433.98	316.55	1,053.53	868.25	185.28	5.686		
8,200.00	7,806.00	7,789.00	7,789.00	38.76	156.26	-155.86	-433.98	316.55	1,103.23	917.82	185.41	5.950		
8,233.89	7,807.00	7,790.00	7,790.00	39.18	156.28	-89.94	-433.98	316.55	1,137.10	951.66	185.44	6.132		
8,300.00	7,807.00	7,790.00	7,790.00	40.00	156.28	-89.94	-433.98	316.55	1,203.18	1,017.73	185.45	6.488		
8,400.00	7,807.00	7,790.00	7,790.00	41.29	156.28	-89.94	-433.98	316.55	1,303.15	1,117.69	185.46	7.026		
8,500.00	7,806.99	7,789.99	7,789.99	42.60	156.28	-89.93	-433.98	316.55	1,403.13	1,217.65	185.48	7.565		
8,600.00	7,806.99	7,789.99	7,789.99	43.95	156.28	-89.93	-433.98	316.55	1,503.11	1,317.61	185.50	8.103		
8,700.00	7,806.99	7,789.99	7,789.99	45.33	156.28	-89.92	-433.98	316.55	1,603.09	1,417.58	185.52	8.641		
8,800.00	7,806.99	7,789.99	7,789.99	46.74	156.28	-89.92	-433.98	316.55	1,703.08	1,517.54	185.54	9.179		

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-20-3N
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-20-3N	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	7,806.98	7,789.98	7,789.98	48.17	156.28	-89.91	-433.98	316.55	1,803.06	1,617.50	185.56	9.717		
9,000.00	7,806.98	7,789.98	7,789.98	49.62	156.28	-89.91	-433.98	316.55	1,903.05	1,717.47	185.58	10.255		
9,100.00	7,806.98	7,789.98	7,789.98	51.09	156.28	-89.90	-433.98	316.55	2,003.04	1,817.44	185.60	10.792		
9,200.00	7,806.98	7,789.98	7,789.98	52.59	156.28	-89.90	-433.98	316.55	2,103.03	1,917.40	185.63	11.329		
9,300.00	7,806.97	7,789.97	7,789.97	54.09	156.28	-89.89	-433.98	316.55	2,203.02	2,017.37	185.65	11.866		
9,400.00	7,806.97	7,789.97	7,789.97	55.62	156.28	-89.89	-433.98	316.55	2,303.01	2,117.33	185.68	12.403		
9,500.00	7,806.97	7,789.97	7,789.97	57.16	156.28	-89.88	-433.98	316.55	2,403.00	2,217.30	185.70	12.940		
9,600.00	7,806.97	7,789.97	7,789.97	58.71	156.28	-89.88	-433.98	316.55	2,503.00	2,317.27	185.73	13.476		
9,700.00	7,806.96	7,789.96	7,789.96	60.27	156.28	-89.87	-433.98	316.55	2,602.99	2,417.23	185.76	14.013		
9,800.00	7,806.96	7,789.96	7,789.96	61.84	156.28	-89.87	-433.98	316.55	2,702.98	2,517.20	185.79	14.549		
9,900.00	7,806.96	7,789.96	7,789.96	63.43	156.28	-89.86	-433.98	316.55	2,802.98	2,617.16	185.82	15.084		
10,000.00	7,806.96	7,789.96	7,789.96	65.02	156.28	-89.86	-433.98	316.55	2,902.97	2,717.12	185.85	15.620		
10,100.00	7,806.95	7,789.95	7,789.95	66.63	156.28	-89.85	-433.98	316.55	3,002.97	2,817.09	185.88	16.155		
10,200.00	7,806.95	7,789.95	7,789.95	68.24	156.28	-89.85	-433.98	316.55	3,102.96	2,917.05	185.91	16.690		
10,300.00	7,806.95	7,789.95	7,789.95	69.86	156.28	-89.84	-433.98	316.55	3,202.96	3,017.01	185.95	17.225		
10,400.00	7,806.95	7,789.95	7,789.95	71.49	156.28	-89.84	-433.98	316.55	3,302.96	3,116.97	185.98	17.759		
10,500.00	7,806.94	7,789.94	7,789.94	73.12	156.28	-89.83	-433.98	316.55	3,402.95	3,216.93	186.02	18.294		
10,600.00	7,806.94	7,789.94	7,789.94	74.76	156.28	-89.83	-433.98	316.55	3,502.95	3,316.89	186.06	18.827		
10,700.00	7,806.94	7,789.94	7,789.94	76.41	156.28	-89.82	-433.98	316.55	3,602.94	3,416.85	186.09	19.361		
10,800.00	7,806.94	7,789.94	7,789.94	78.06	156.28	-89.82	-433.98	316.55	3,702.94	3,516.81	186.13	19.894		
10,900.00	7,806.93	7,789.93	7,789.93	79.72	156.28	-89.81	-433.98	316.55	3,802.94	3,616.77	186.17	20.427		
11,000.00	7,806.93	7,789.93	7,789.93	81.38	156.28	-89.81	-433.98	316.55	3,902.94	3,716.73	186.21	20.960		
11,100.00	7,806.93	7,789.93	7,789.93	83.05	156.28	-89.80	-433.98	316.55	4,002.93	3,816.68	186.25	21.492		
11,200.00	7,806.93	7,789.93	7,789.93	84.72	156.28	-89.80	-433.98	316.55	4,102.93	3,916.64	186.29	22.024		
11,300.00	7,806.92	7,789.92	7,789.92	86.39	156.28	-89.79	-433.98	316.55	4,202.93	4,016.59	186.33	22.556		
11,400.00	7,806.92	7,789.92	7,789.92	88.07	156.28	-89.79	-433.98	316.55	4,302.93	4,116.55	186.38	23.087		
11,500.00	7,806.92	7,789.92	7,789.92	89.75	156.28	-89.78	-433.98	316.55	4,402.92	4,216.50	186.42	23.618		
11,600.00	7,806.92	7,789.92	7,789.92	91.44	156.28	-89.78	-433.98	316.55	4,502.92	4,316.45	186.47	24.149		
11,700.00	7,806.91	7,789.91	7,789.91	93.13	156.28	-89.78	-433.98	316.55	4,602.92	4,416.41	186.51	24.679		
11,800.00	7,806.91	7,789.91	7,789.91	94.82	156.28	-89.77	-433.98	316.55	4,702.92	4,516.36	186.56	25.209		
11,900.00	7,806.91	7,789.91	7,789.91	96.52	156.28	-89.77	-433.98	316.55	4,802.91	4,616.31	186.61	25.738		
12,000.00	7,806.91	7,789.91	7,789.91	98.21	156.28	-89.76	-433.98	316.55	4,902.91	4,716.26	186.65	26.268		
12,100.00	7,806.90	7,789.90	7,789.90	99.91	156.28	-89.76	-433.98	316.55	5,002.91	4,816.21	186.70	26.796		
12,200.00	7,806.90	7,789.90	7,789.90	101.62	156.28	-89.75	-433.98	316.55	5,102.91	4,916.16	186.75	27.325		
12,300.00	7,806.90	7,789.90	7,789.90	103.32	156.28	-89.75	-433.98	316.55	5,202.91	5,016.11	186.80	27.852		
12,400.00	7,806.90	7,789.90	7,789.90	105.03	156.28	-89.74	-433.98	316.55	5,302.91	5,116.05	186.85	28.380		
12,500.00	7,806.89	7,789.89	7,789.89	106.74	156.28	-89.74	-433.98	316.55	5,402.90	5,216.00	186.91	28.907		
12,600.00	7,806.89	7,789.89	7,789.89	108.45	156.28	-89.73	-433.98	316.55	5,502.90	5,315.95	186.96	29.434		
12,700.00	7,806.89	7,789.89	7,789.89	110.17	156.28	-89.73	-433.98	316.55	5,602.90	5,415.89	187.01	29.960		
12,800.00	7,806.89	7,789.89	7,789.89	111.88	156.28	-89.72	-433.98	316.55	5,702.90	5,515.83	187.07	30.486		
12,900.00	7,806.88	7,789.88	7,789.88	113.60	156.28	-89.72	-433.98	316.55	5,802.90	5,615.78	187.12	31.011		
13,000.00	7,806.88	7,789.88	7,789.88	115.32	156.28	-89.71	-433.98	316.55	5,902.90	5,715.72	187.18	31.536		
13,100.00	7,806.88	7,789.88	7,789.88	117.04	156.28	-89.71	-433.98	316.55	6,002.90	5,815.66	187.23	32.061		
13,200.00	7,806.88	7,789.88	7,789.88	118.76	156.28	-89.70	-433.98	316.55	6,102.90	5,915.60	187.29	32.585		
13,300.00	7,806.87	7,789.87	7,789.87	120.48	156.28	-89.70	-433.98	316.55	6,202.89	6,015.54	187.35	33.109		
13,400.00	7,806.87	7,789.87	7,789.87	122.21	156.28	-89.69	-433.98	316.55	6,302.89	6,115.48	187.41	33.632		
13,500.00	7,806.87	7,789.87	7,789.87	123.94	156.28	-89.69	-433.98	316.55	6,402.89	6,215.42	187.47	34.154		
13,600.00	7,806.87	7,789.87	7,789.87	125.66	156.28	-89.68	-433.98	316.55	6,502.89	6,315.36	187.53	34.677		
13,700.00	7,806.86	7,789.86	7,789.86	127.39	156.28	-89.68	-433.98	316.55	6,602.89	6,415.30	187.59	35.198		
13,800.00	7,806.86	7,789.86	7,789.86	129.12	156.28	-89.67	-433.98	316.55	6,702.89	6,515.24	187.65	35.720		
13,900.00	7,806.86	7,789.86	7,789.86	130.85	156.28	-89.67	-433.98	316.55	6,802.89	6,615.17	187.71	36.241		
14,000.00	7,806.86	7,789.86	7,789.86	132.59	156.28	-89.66	-433.98	316.55	6,902.89	6,715.11	187.78	36.761		

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-20-3N
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-20-3N	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	7,806.85	7,789.85	7,789.85	134.32	156.28	-89.66	-433.98	316.55	7,002.89	6,815.04	187.84	37.281		
14,200.00	7,806.85	7,789.85	7,789.85	136.06	156.28	-89.65	-433.98	316.55	7,102.89	6,914.98	187.91	37.800		
14,300.00	7,806.85	7,789.85	7,789.85	137.79	156.28	-89.65	-433.98	316.55	7,202.89	7,014.91	187.97	38.319		
14,400.00	7,806.85	7,789.85	7,789.85	139.53	156.28	-89.64	-433.98	316.55	7,302.88	7,114.85	188.04	38.837		
14,500.00	7,806.84	7,789.84	7,789.84	141.27	156.28	-89.64	-433.98	316.55	7,402.88	7,214.78	188.11	39.355		
14,600.00	7,806.84	7,789.84	7,789.84	143.00	156.28	-89.63	-433.98	316.55	7,502.88	7,314.71	188.17	39.872		
14,700.00	7,806.84	7,789.84	7,789.84	144.74	156.28	-89.63	-433.98	316.55	7,602.88	7,414.64	188.24	40.389		
14,800.00	7,806.84	7,789.84	7,789.84	146.48	156.28	-89.62	-433.98	316.55	7,702.88	7,514.57	188.31	40.905		
14,900.00	7,806.83	7,789.83	7,789.83	148.22	156.28	-89.62	-433.98	316.55	7,802.88	7,614.50	188.38	41.421		
15,000.00	7,806.83	7,789.83	7,789.83	149.97	156.28	-89.61	-433.98	316.55	7,902.88	7,714.43	188.45	41.936		
15,100.00	7,806.83	7,789.83	7,789.83	151.71	156.28	-89.61	-433.98	316.55	8,002.88	7,814.36	188.52	42.451		
15,200.00	7,806.83	7,789.83	7,789.83	153.45	156.28	-89.60	-433.98	316.55	8,102.88	7,914.29	188.59	42.965		
15,300.00	7,806.82	7,789.82	7,789.82	155.19	156.28	-89.60	-433.98	316.55	8,202.88	8,014.21	188.67	43.478		
15,400.00	7,806.82	7,789.82	7,789.82	156.94	156.28	-89.59	-433.98	316.55	8,302.88	8,114.14	188.74	43.991		
15,500.00	7,806.82	7,789.82	7,789.82	158.68	156.28	-89.59	-433.98	316.55	8,402.88	8,214.06	188.81	44.504		
15,600.00	7,806.82	7,789.82	7,789.82	160.43	156.28	-89.58	-433.98	316.55	8,502.88	8,313.99	188.89	45.016		
15,700.00	7,806.81	7,789.81	7,789.81	162.18	156.28	-89.58	-433.98	316.55	8,602.88	8,413.91	188.96	45.527		
15,800.00	7,806.81	7,789.81	7,789.81	163.92	156.28	-89.57	-433.98	316.55	8,702.88	8,513.84	189.04	46.038		
15,900.00	7,806.81	7,789.81	7,789.81	165.67	156.28	-89.57	-433.98	316.55	8,802.87	8,613.76	189.11	46.548		
16,000.00	7,806.81	7,789.81	7,789.81	167.42	156.28	-89.57	-433.98	316.55	8,902.87	8,713.68	189.19	47.058		
16,100.00	7,806.80	7,789.80	7,789.80	169.17	156.28	-89.56	-433.98	316.55	9,002.87	8,813.61	189.27	47.567		
16,200.00	7,806.80	7,789.80	7,789.80	170.91	156.27	-89.56	-433.98	316.55	9,102.87	8,913.53	189.35	48.075		
16,300.00	7,806.80	7,789.80	7,789.80	172.66	156.27	-89.55	-433.98	316.55	9,202.87	9,013.45	189.43	48.583		
16,400.00	7,806.80	7,789.80	7,789.80	174.41	156.27	-89.55	-433.98	316.55	9,302.87	9,113.37	189.50	49.090		
16,500.00	7,806.79	7,789.79	7,789.79	176.16	156.27	-89.54	-433.98	316.55	9,402.87	9,213.29	189.58	49.597		
16,600.00	7,806.79	7,789.79	7,789.79	177.92	156.27	-89.54	-433.98	316.55	9,502.87	9,313.21	189.67	50.103		
16,700.00	7,806.79	7,789.79	7,789.79	179.67	156.27	-89.53	-433.98	316.55	9,602.87	9,413.12	189.75	50.609		
16,800.00	7,806.79	7,789.79	7,789.79	181.42	156.27	-89.53	-433.98	316.55	9,702.87	9,513.04	189.83	51.114		
16,900.00	7,806.78	7,789.78	7,789.78	183.17	156.27	-89.52	-433.98	316.55	9,802.87	9,612.96	189.91	51.618		
17,000.00	7,806.78	7,789.78	7,789.78	184.92	156.27	-89.52	-433.98	316.55	9,902.87	9,712.88	189.99	52.122		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	153.31	-3,282.55	1,649.95	3,673.89					
100.00	100.00	64.00	64.00	0.13	0.11	153.31	-3,282.55	1,649.95	3,673.89	3,673.64	0.25	N/A		
200.00	200.00	164.00	164.00	0.49	0.29	153.31	-3,282.55	1,649.95	3,673.89	3,673.10	0.78	4,686.646		
300.00	300.00	264.00	264.00	0.85	0.47	153.31	-3,282.55	1,649.95	3,673.89	3,672.57	1.32	2,783.627		
400.00	400.00	364.00	364.00	1.21	0.65	153.31	-3,282.55	1,649.95	3,673.89	3,672.03	1.86	1,979.748		
500.00	500.00	464.00	464.00	1.57	0.82	153.31	-3,282.55	1,649.95	3,673.89	3,671.50	2.39	1,536.131		
600.00	600.00	564.00	564.00	1.93	1.00	153.31	-3,282.55	1,649.95	3,673.89	3,670.96	2.93	1,254.930		
700.00	700.00	664.00	664.00	2.29	1.18	153.31	-3,282.55	1,649.95	3,673.89	3,670.43	3.46	1,060.751		
800.00	800.00	764.00	764.00	2.64	1.36	153.31	-3,282.55	1,649.95	3,673.89	3,669.89	4.00	918.611		
900.00	900.00	864.00	864.00	3.00	1.53	153.31	-3,282.55	1,649.95	3,673.89	3,669.35	4.54	810.063		
1,000.00	1,000.00	964.00	964.00	3.36	1.71	153.31	-3,282.55	1,649.95	3,673.89	3,668.82	5.07	724.458		
1,100.00	1,100.00	1,064.00	1,064.00	3.72	1.89	153.31	-3,282.55	1,649.95	3,673.89	3,668.28	5.61	655.216		
1,200.00	1,200.00	1,164.00	1,164.00	4.08	2.07	153.31	-3,282.55	1,649.95	3,673.89	3,667.75	6.14	598.056		
1,300.00	1,300.00	1,264.00	1,264.00	4.44	2.24	153.31	-3,282.55	1,649.95	3,673.89	3,667.21	6.68	550.068		
1,400.00	1,400.00	1,364.00	1,364.00	4.79	2.42	153.31	-3,282.55	1,649.95	3,673.89	3,666.67	7.21	509.210		
1,500.00	1,499.98	1,463.98	1,463.98	5.14	2.60	-10.45	-3,282.55	1,649.95	3,672.17	3,664.44	7.73	474.858		
1,600.00	1,599.84	1,563.84	1,563.84	5.46	2.77	-10.49	-3,282.55	1,649.95	3,667.03	3,658.79	8.24	445.150		
1,700.00	1,699.45	1,623.83	1,623.79	5.80	3.25	-10.49	-3,284.31	1,647.94	3,659.34	3,650.29	9.05	404.471		
1,800.00	1,798.70	1,699.09	1,698.93	6.14	3.63	-10.49	-3,287.10	1,644.75	3,648.76	3,639.00	9.76	373.932		
1,900.00	1,897.47	1,774.02	1,773.61	6.49	4.02	-10.48	-3,291.18	1,640.10	3,635.44	3,624.96	10.48	346.958		
1,969.08	1,965.35	1,825.54	1,824.84	6.75	4.30	-10.46	-3,294.72	1,636.05	3,624.63	3,613.65	10.98	330.102		
2,000.00	1,995.66	1,848.54	1,847.68	6.86	4.42	-10.44	-3,296.50	1,634.02	3,619.54	3,608.33	11.21	322.998		
2,100.00	2,093.69	1,922.82	1,921.29	7.25	4.82	-10.32	-3,303.07	1,626.51	3,603.50	3,591.56	11.94	301.890		
2,200.00	2,191.72	1,996.86	1,994.37	7.65	5.22	-10.18	-3,310.86	1,617.61	3,588.15	3,575.47	12.67	283.129		
2,300.00	2,289.76	2,070.56	2,066.80	8.07	5.62	-10.01	-3,319.85	1,607.34	3,573.50	3,560.09	13.41	266.400		
2,400.00	2,387.79	2,143.83	2,138.42	8.49	6.02	-9.81	-3,330.01	1,595.75	3,559.59	3,545.43	14.16	251.432		
2,500.00	2,485.82	2,216.57	2,209.12	8.91	6.43	-9.58	-3,341.28	1,582.87	3,546.43	3,531.53	14.90	237.998		
2,600.00	2,583.86	2,288.70	2,278.77	9.35	6.83	-9.32	-3,353.62	1,568.78	3,534.07	3,518.43	15.64	225.904		
2,700.00	2,681.89	2,360.14	2,347.27	9.79	7.23	-9.04	-3,366.97	1,553.52	3,522.54	3,506.15	16.38	214.986		
2,800.00	2,779.92	2,430.80	2,414.51	10.24	7.62	-8.73	-3,381.29	1,537.17	3,511.87	3,494.74	17.12	205.105		
2,900.00	2,877.96	2,500.63	2,480.40	10.69	8.01	-8.40	-3,396.50	1,519.80	3,502.10	3,484.25	17.85	196.142		
3,000.00	2,975.99	2,569.54	2,544.87	11.14	8.40	-8.04	-3,412.55	1,501.47	3,493.29	3,474.70	18.58	187.995		
3,100.00	3,074.02	2,637.48	2,607.83	11.60	8.78	-7.67	-3,429.37	1,482.26	3,485.47	3,466.16	19.30	180.578		
3,200.00	3,172.06	2,704.40	2,669.23	12.06	9.16	-7.28	-3,446.89	1,462.25	3,478.69	3,458.67	20.01	173.814		
3,300.00	3,270.09	2,770.25	2,729.03	12.52	9.53	-6.87	-3,465.04	1,441.51	3,473.00	3,452.28	20.72	167.639		
3,400.00	3,368.12	2,834.98	2,787.18	12.98	9.90	-6.45	-3,483.77	1,420.13	3,468.45	3,447.04	21.41	161.998		
3,500.00	3,466.16	3,206.48	2,797.55	13.45	12.74	-6.47	-3,482.98	1,421.03	3,463.65	3,439.22	24.43	141.764		
3,600.00	3,564.19	3,117.79	2,873.97	13.92	11.88	-5.79	-3,512.63	1,387.16	3,462.59	3,438.64	23.95	144.575		
3,700.00	3,662.23	3,029.09	2,950.39	14.39	11.01	-5.11	-3,542.29	1,353.29	3,462.15	3,438.67	23.48	147.479		
3,722.38	3,684.16	3,040.68	2,967.49	14.50	11.13	-4.96	-3,548.92	1,345.71	3,462.13	3,438.47	23.66	146.348		
3,800.00	3,760.26	3,109.52	3,026.81	14.86	11.80	-4.43	-3,571.94	1,319.42	3,462.32	3,437.77	24.54	141.062		
3,900.00	3,858.29	3,198.22	3,103.24	15.34	12.66	-3.76	-3,601.59	1,285.55	3,463.10	3,437.42	25.68	134.839		
4,000.00	3,956.33	3,286.91	3,179.66	15.81	13.53	-3.08	-3,631.25	1,251.69	3,464.50	3,437.69	26.82	129.198		
4,100.00	4,054.36	3,375.61	3,256.08	16.29	14.39	-2.40	-3,660.90	1,217.82	3,466.52	3,438.58	27.94	124.068		
4,200.00	4,152.39	3,464.30	3,332.50	16.77	15.26	-1.73	-3,690.56	1,183.95	3,469.15	3,440.09	29.06	119.388		
4,300.00	4,250.43	3,553.00	3,408.93	17.25	16.13	-1.05	-3,720.21	1,150.08	3,472.39	3,442.23	30.17	115.105		
4,400.00	4,348.46	3,641.69	3,485.35	17.73	17.01	-0.38	-3,749.86	1,116.21	3,476.25	3,444.98	31.27	111.175		
4,500.00	4,446.49	3,730.39	3,561.77	18.21	17.88	0.30	-3,779.52	1,082.34	3,480.71	3,448.35	32.36	107.559		
4,600.00	4,544.53	3,819.09	3,638.19	18.69	18.75	0.97	-3,809.17	1,048.47	3,485.78	3,452.33	33.44	104.226		
4,700.00	4,642.56	3,907.78	3,714.62	19.17	19.62	1.64	-3,838.83	1,014.60	3,491.45	3,456.93	34.52	101.146		
4,800.00	4,740.59	3,996.48	3,791.04	19.65	20.50	2.31	-3,868.48	980.73	3,497.72	3,462.14	35.58	98.294		
4,900.00	4,838.63	4,085.17	3,867.46	20.13	21.37	2.97	-3,898.13	946.87	3,504.59	3,467.95	36.64	95.649		

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-20-3N
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-20-3N	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		
5,000.00	4,936.66	4,173.87	3,943.88	20.62	22.25	3.64	-3,927.79	913.00	3,512.06	3,474.37	37.69	93.191		
5,100.00	5,034.69	4,262.56	4,020.31	21.10	23.12	4.30	-3,957.44	879.13	3,520.11	3,481.39	38.72	90.904		
5,200.00	5,132.73	4,351.26	4,096.73	21.59	24.00	4.96	-3,987.10	845.26	3,528.75	3,489.00	39.75	88.773		
5,300.00	5,230.76	4,439.95	4,173.15	22.07	24.88	5.61	-4,016.75	811.39	3,537.97	3,497.21	40.77	86.783		
5,400.00	5,328.79	4,528.65	4,249.57	22.56	25.75	6.27	-4,046.40	777.52	3,547.77	3,506.00	41.78	84.925		
5,500.00	5,426.83	4,617.34	4,326.00	23.04	26.63	6.92	-4,076.06	743.65	3,558.15	3,515.37	42.77	83.186		
5,600.00	5,524.86	4,706.04	4,402.42	23.53	27.51	7.57	-4,105.71	709.78	3,569.09	3,525.32	43.76	81.557		
5,700.00	5,622.89	4,794.73	4,478.84	24.02	28.38	8.21	-4,135.37	675.91	3,580.59	3,535.85	44.74	80.031		
5,800.00	5,720.93	4,920.89	4,587.74	24.50	29.58	9.12	-4,177.31	628.00	3,592.59	3,546.57	46.03	78.056		
5,900.00	5,818.96	5,346.61	4,972.35	24.99	32.66	11.71	-4,296.94	491.37	3,600.07	3,550.90	49.17	73.211		
6,000.00	5,916.99	6,397.67	6,000.00	25.48	37.79	14.88	-4,422.52	347.95	3,608.34	3,554.91	53.42	67.543		
6,100.00	6,015.03	6,418.64	5,979.03	25.97	37.83	14.86	-4,422.52	347.95	3,587.27	3,533.24	54.03	66.395		
6,200.00	6,113.06	6,474.73	6,077.06	26.45	37.92	14.94	-4,422.52	347.95	3,568.17	3,513.67	54.51	65.463		
6,300.00	6,211.09	6,572.77	6,175.09	26.94	38.09	15.02	-4,422.52	347.95	3,549.09	3,494.02	55.07	64.447		
6,400.00	6,309.13	6,670.80	6,273.13	27.43	38.26	15.10	-4,422.52	347.95	3,530.00	3,474.37	55.63	63.452		
6,500.00	6,407.16	6,768.83	6,371.16	27.92	38.43	15.19	-4,422.52	347.95	3,510.93	3,454.73	56.20	62.477		
6,600.00	6,505.19	6,866.87	6,469.19	28.41	38.60	15.27	-4,422.52	347.95	3,491.86	3,435.10	56.76	61.520		
6,664.73	6,568.65	6,930.33	6,532.65	28.73	38.71	15.33	-4,422.52	347.95	3,479.53	3,422.40	57.12	60.911		
6,700.00	6,603.27	6,964.94	6,567.27	28.90	38.77	15.32	-4,422.52	347.95	3,473.01	3,415.69	57.32	60.586		
6,800.00	6,701.84	7,063.51	6,665.84	29.36	38.94	15.31	-4,422.52	347.95	3,456.78	3,398.90	57.89	59.718		
6,900.00	6,800.94	7,162.61	6,764.94	29.78	39.11	15.30	-4,422.52	347.95	3,443.89	3,385.45	58.44	58.927		
7,000.00	6,900.45	7,178.00	6,780.33	30.17	39.14	15.26	-4,422.52	347.95	3,435.38	3,376.42	58.96	58.270		
7,086.42	6,986.67	7,178.00	6,780.33	30.48	39.14	15.25	-4,422.52	347.95	3,433.03	3,373.68	59.36	57.835		
7,100.00	7,000.24	7,178.00	6,780.33	30.53	39.14	15.25	-4,422.52	347.95	3,433.09	3,373.67	59.42	57.777		
7,200.00	7,100.19	7,178.00	6,780.33	30.85	39.14	15.27	-4,422.52	347.95	3,437.08	3,377.25	59.83	57.444		
7,233.81	7,134.00	7,178.00	6,780.33	30.95	39.14	179.04	-4,422.52	347.95	3,439.85	3,379.89	59.96	57.370		
7,300.00	7,200.19	7,178.00	6,780.33	31.12	39.14	179.04	-4,422.52	347.95	3,446.59	3,386.41	60.18	57.269		
7,333.81	7,234.00	7,178.00	6,780.33	31.21	39.14	179.04	-4,422.52	347.95	3,450.52	3,390.23	60.29	57.232		
7,350.00	7,250.18	7,178.00	6,780.33	31.26	39.14	-0.62	-4,422.52	347.95	3,452.29	3,391.95	60.34	57.213		
7,400.00	7,300.04	7,178.00	6,780.33	31.44	39.14	-0.61	-4,422.52	347.95	3,455.35	3,394.85	60.50	57.109		
7,450.00	7,349.39	7,178.00	6,780.33	31.66	39.14	-0.61	-4,422.52	347.95	3,454.78	3,394.12	60.67	56.947		
7,500.00	7,397.87	7,178.00	6,780.33	31.92	39.14	-0.62	-4,422.52	347.95	3,450.58	3,389.75	60.83	56.728		
7,550.00	7,445.09	7,178.00	6,780.33	32.22	39.14	-0.63	-4,422.52	347.95	3,442.75	3,381.77	60.98	56.456		
7,600.00	7,490.72	7,178.00	6,780.33	32.55	39.14	-0.64	-4,422.52	347.95	3,431.35	3,370.22	61.13	56.133		
7,650.00	7,534.38	7,178.00	6,780.33	32.92	39.14	-0.66	-4,422.52	347.95	3,416.42	3,355.15	61.27	55.762		
7,700.00	7,575.77	7,178.00	6,780.33	33.32	39.14	-0.68	-4,422.52	347.95	3,398.03	3,336.63	61.40	55.345		
7,750.00	7,614.55	7,178.00	6,780.33	33.75	39.14	-0.71	-4,422.52	347.95	3,376.26	3,314.74	61.52	54.884		
7,800.00	7,650.43	7,178.00	6,780.33	34.22	39.14	-0.75	-4,422.52	347.95	3,351.21	3,289.59	61.62	54.384		
7,850.00	7,683.15	7,178.00	6,780.33	34.71	39.14	-0.79	-4,422.52	347.95	3,323.01	3,261.30	61.71	53.845		
7,900.00	7,712.45	7,178.00	6,780.33	35.23	39.14	-0.85	-4,422.52	347.95	3,291.79	3,230.00	61.79	53.270		
7,950.00	7,738.11	7,178.00	6,780.33	35.78	39.14	-0.92	-4,422.52	347.95	3,257.71	3,195.85	61.86	52.662		
8,000.00	7,759.93	7,178.00	6,780.33	36.35	39.14	-1.01	-4,422.52	347.95	3,220.93	3,159.01	61.91	52.023		
8,050.00	7,777.75	7,178.00	6,780.33	36.93	39.14	-1.13	-4,422.52	347.95	3,181.65	3,119.70	61.95	51.355		
8,100.00	7,791.43	7,178.00	6,780.33	37.53	39.14	-1.29	-4,422.52	347.95	3,140.08	3,078.10	61.98	50.661		
8,150.00	7,800.87	7,178.00	6,780.33	38.14	39.14	-1.51	-4,422.52	347.95	3,096.45	3,034.45	62.00	49.943		
8,200.00	7,806.00	7,178.00	6,780.33	38.76	39.14	-1.82	-4,422.52	347.95	3,051.02	2,989.01	62.01	49.204		
8,233.89	7,807.00	7,178.00	6,780.33	39.18	39.14	-2.13	-4,422.52	347.95	3,019.33	2,957.32	62.01	48.692		
8,300.00	7,807.00	7,178.00	6,780.33	40.00	39.14	-2.13	-4,422.52	347.95	2,956.96	2,894.96	62.00	47.692		
8,400.00	7,807.00	7,178.00	6,780.33	41.29	39.14	-2.13	-4,422.52	347.95	2,862.95	2,800.96	61.98	46.189		
8,500.00	7,806.99	7,178.00	6,780.33	42.60	39.14	-2.13	-4,422.52	347.95	2,769.35	2,707.39	61.96	44.697		
8,600.00	7,806.99	7,178.00	6,780.33	43.95	39.14	-2.13	-4,422.52	347.95	2,676.21	2,614.29	61.93	43.215		
8,700.00	7,806.99	7,178.00	6,780.33	45.33	39.14	-2.13	-4,422.52	347.95	2,583.59	2,521.71	61.89	41.746		

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-20-3N
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-20-3N	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		
8,800.00	7,806.99	7,178.00	6,780.33	46.74	39.14	-2.13	-4,422.52	347.95	2,491.54	2,429.70	61.84	40.292		
8,900.00	7,806.98	7,178.00	6,780.33	48.17	39.14	-2.13	-4,422.52	347.95	2,400.13	2,338.35	61.78	38.852		
9,000.00	7,806.98	7,178.00	6,780.33	49.62	39.14	-2.13	-4,422.52	347.95	2,309.42	2,247.72	61.70	37.431		
9,100.00	7,806.98	7,178.00	6,780.33	51.09	39.14	-2.13	-4,422.52	347.95	2,219.52	2,157.92	61.60	36.028		
9,200.00	7,806.98	7,178.00	6,780.33	52.59	39.14	-2.13	-4,422.52	347.95	2,130.52	2,069.03	61.49	34.649		
9,300.00	7,806.97	7,178.00	6,780.33	54.09	39.14	-2.13	-4,422.52	347.95	2,042.53	1,981.18	61.35	33.294		
9,400.00	7,806.97	7,178.00	6,780.33	55.62	39.14	-2.13	-4,422.52	347.95	1,955.70	1,894.52	61.18	31.968		
9,500.00	7,806.97	7,178.00	6,780.33	57.16	39.14	-2.13	-4,422.52	347.95	1,870.18	1,809.22	60.97	30.675		
9,600.00	7,806.97	7,178.00	6,780.33	58.71	39.14	-2.13	-4,422.52	347.95	1,786.17	1,725.46	60.71	29.420		
9,700.00	7,806.96	7,178.00	6,780.33	60.27	39.14	-2.13	-4,422.52	347.95	1,703.89	1,643.49	60.40	28.209		
9,800.00	7,806.96	7,178.00	6,780.33	61.84	39.14	-2.13	-4,422.52	347.95	1,623.60	1,563.57	60.03	27.048		
9,900.00	7,806.96	7,178.00	6,780.33	63.43	39.14	-2.13	-4,422.52	347.95	1,545.61	1,486.04	59.57	25.946		
10,000.00	7,806.96	7,178.00	6,780.33	65.02	39.14	-2.13	-4,422.52	347.95	1,470.28	1,411.27	59.02	24.913		
10,100.00	7,806.95	7,178.00	6,780.33	66.63	39.14	-2.13	-4,422.52	347.95	1,398.06	1,339.71	58.34	23.962		
10,200.00	7,806.95	7,178.00	6,780.33	68.24	39.14	-2.13	-4,422.52	347.95	1,329.43	1,271.90	57.53	23.107		
10,300.00	7,806.95	7,178.00	6,780.33	69.86	39.14	-2.13	-4,422.52	347.95	1,265.00	1,208.44	56.56	22.365		
10,400.00	7,806.95	7,178.00	6,780.33	71.49	39.14	-2.13	-4,422.52	347.95	1,205.42	1,150.02	55.41	21.756		
10,500.00	7,806.94	7,178.00	6,780.33	73.12	39.14	-2.13	-4,422.52	347.95	1,151.47	1,097.42	54.05	21.305		
10,600.00	7,806.94	7,178.00	6,780.33	74.76	39.14	-2.13	-4,422.52	347.95	1,103.95	1,051.47	52.48	21.034		
10,700.00	7,806.94	7,178.00	6,780.33	76.41	39.14	-2.13	-4,422.52	347.95	1,063.74	1,013.00	50.73	20.967 SF		
10,800.00	7,806.94	7,178.00	6,780.33	78.06	39.14	-2.13	-4,422.52	347.95	1,031.68	982.83	48.85	21.117		
10,900.00	7,806.93	7,178.00	6,780.33	79.72	39.14	-2.13	-4,422.52	347.95	1,008.56	961.60	46.96	21.475		
11,000.00	7,806.93	7,178.00	6,780.33	81.38	39.14	-2.13	-4,422.52	347.95	995.00	949.75	45.25	21.991		
11,085.85	7,806.93	7,178.00	6,780.33	82.81	39.14	-2.13	-4,422.52	347.95	991.29	947.20	44.09	22.485 CC, ES		
11,100.00	7,806.93	7,178.00	6,780.33	83.05	39.14	-2.13	-4,422.52	347.95	991.39	947.45	43.94	22.565		
11,200.00	7,806.93	7,178.00	6,780.33	84.72	39.14	-2.13	-4,422.52	347.95	997.84	954.58	43.25	23.069		
11,300.00	7,806.92	7,178.00	6,780.33	86.39	39.14	-2.13	-4,422.52	347.95	1,014.15	970.87	43.28	23.430		
11,400.00	7,806.92	7,178.00	6,780.33	88.07	39.14	-2.13	-4,422.52	347.95	1,039.87	995.95	43.92	23.675		
11,500.00	7,806.92	7,178.00	6,780.33	89.75	39.14	-2.13	-4,422.52	347.95	1,074.32	1,029.36	44.96	23.894		
11,600.00	7,806.92	7,178.00	6,780.33	91.44	39.14	-2.13	-4,422.52	347.95	1,116.69	1,070.49	46.20	24.170		
11,700.00	7,806.91	7,178.00	6,780.33	93.13	39.14	-2.13	-4,422.52	347.95	1,166.12	1,118.61	47.50	24.549		
11,800.00	7,806.91	7,178.00	6,780.33	94.82	39.14	-2.13	-4,422.52	347.95	1,221.74	1,172.97	48.77	25.049		
11,900.00	7,806.91	7,178.00	6,780.33	96.52	39.14	-2.13	-4,422.52	347.95	1,282.76	1,232.79	49.97	25.669		
12,000.00	7,806.91	7,178.00	6,780.33	98.21	39.14	-2.13	-4,422.52	347.95	1,348.45	1,297.37	51.08	26.400		
12,100.00	7,806.90	7,178.00	6,780.33	99.91	39.14	-2.13	-4,422.52	347.95	1,418.15	1,366.06	52.08	27.228		
12,200.00	7,806.90	7,178.00	6,780.33	101.62	39.14	-2.13	-4,422.52	347.95	1,491.30	1,438.30	52.99	28.141		
12,300.00	7,806.90	7,178.00	6,780.33	103.32	39.14	-2.13	-4,422.52	347.95	1,567.42	1,513.61	53.81	29.127		
12,400.00	7,806.90	7,178.00	6,780.33	105.03	39.14	-2.13	-4,422.52	347.95	1,646.10	1,591.54	54.55	30.175		
12,500.00	7,806.89	7,178.00	6,780.33	106.74	39.14	-2.13	-4,422.52	347.95	1,726.98	1,671.76	55.22	31.277		
12,600.00	7,806.89	7,178.00	6,780.33	108.45	39.14	-2.13	-4,422.52	347.95	1,809.78	1,753.96	55.82	32.424		
12,700.00	7,806.89	7,178.00	6,780.33	110.17	39.14	-2.13	-4,422.52	347.95	1,894.23	1,837.87	56.36	33.610		
12,800.00	7,806.89	7,178.00	6,780.33	111.88	39.14	-2.13	-4,422.52	347.95	1,980.14	1,923.29	56.85	34.829		
12,900.00	7,806.88	7,178.00	6,780.33	113.60	39.14	-2.13	-4,422.52	347.95	2,067.31	2,010.01	57.30	36.077		
13,000.00	7,806.88	7,178.00	6,780.33	115.32	39.14	-2.13	-4,422.52	347.95	2,155.60	2,097.88	57.72	37.349		
13,100.00	7,806.88	7,178.00	6,780.33	117.04	39.14	-2.13	-4,422.52	347.95	2,244.87	2,186.77	58.09	38.641		
13,200.00	7,806.88	7,178.00	6,780.33	118.76	39.14	-2.13	-4,422.52	347.95	2,335.01	2,276.56	58.44	39.952		
13,300.00	7,806.87	7,178.00	6,780.33	120.48	39.14	-2.13	-4,422.52	347.95	2,425.92	2,367.15	58.77	41.279		
13,400.00	7,806.87	7,178.00	6,780.33	122.21	39.14	-2.13	-4,422.52	347.95	2,517.52	2,458.45	59.07	42.619		
13,500.00	7,806.87	7,178.00	6,780.33	123.94	39.14	-2.13	-4,422.52	347.95	2,609.74	2,550.39	59.35	43.970		
13,600.00	7,806.87	7,178.00	6,780.33	125.66	39.14	-2.13	-4,422.52	347.95	2,702.51	2,642.90	59.62	45.331		
13,700.00	7,806.86	7,178.00	6,780.33	127.39	39.14	-2.13	-4,422.52	347.95	2,795.78	2,735.92	59.87	46.701		
13,800.00	7,806.86	7,178.00	6,780.33	129.12	39.14	-2.13	-4,422.52	347.95	2,889.50	2,829.41	60.10	48.078		

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-20-3N
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-20-3N	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		
13,900.00	7,806.86	7,178.00	6,780.33	130.85	39.14	-2.13	-4,422.52	347.95	2,983.63	2,923.31	60.32	49.462		
14,000.00	7,806.86	7,178.00	6,780.33	132.59	39.14	-2.13	-4,422.52	347.95	3,078.13	3,017.60	60.53	50.850		
14,100.00	7,806.85	7,178.00	6,780.33	134.32	39.14	-2.13	-4,422.52	347.95	3,172.97	3,112.23	60.73	52.243		
14,200.00	7,806.85	7,178.00	6,780.33	136.06	39.14	-2.13	-4,422.52	347.95	3,268.11	3,207.18	60.93	53.640		
14,300.00	7,806.85	7,178.00	6,780.33	137.79	39.14	-2.13	-4,422.52	347.95	3,363.54	3,302.43	61.11	55.039		
14,400.00	7,806.85	7,178.00	6,780.33	139.53	39.14	-2.13	-4,422.52	347.95	3,459.22	3,397.93	61.29	56.441		
14,500.00	7,806.84	7,178.00	6,780.33	141.27	39.14	-2.13	-4,422.52	347.95	3,555.14	3,493.68	61.46	57.844		
14,600.00	7,806.84	7,178.00	6,780.33	143.00	39.14	-2.13	-4,422.52	347.95	3,651.28	3,589.66	61.63	59.249		
14,700.00	7,806.84	7,178.00	6,780.33	144.74	39.14	-2.13	-4,422.52	347.95	3,747.63	3,685.84	61.79	60.655		
14,800.00	7,806.84	7,178.00	6,780.33	146.48	39.14	-2.13	-4,422.52	347.95	3,844.16	3,782.21	61.94	62.062		
14,900.00	7,806.83	7,178.00	6,780.33	148.22	39.14	-2.13	-4,422.52	347.95	3,940.86	3,878.77	62.09	63.468		
15,000.00	7,806.83	7,178.00	6,780.33	149.97	39.14	-2.13	-4,422.52	347.95	4,037.72	3,975.48	62.24	64.874		
15,100.00	7,806.83	7,178.00	6,780.33	151.71	39.14	-2.13	-4,422.52	347.95	4,134.73	4,072.35	62.38	66.280		
15,200.00	7,806.83	7,178.00	6,780.33	153.45	39.14	-2.13	-4,422.52	347.95	4,231.88	4,169.36	62.52	67.685		
15,300.00	7,806.82	7,178.00	6,780.33	155.19	39.14	-2.13	-4,422.52	347.95	4,329.17	4,266.51	62.66	69.089		
15,400.00	7,806.82	7,178.00	6,780.33	156.94	39.14	-2.13	-4,422.52	347.95	4,426.57	4,363.77	62.80	70.492		
15,500.00	7,806.82	7,178.00	6,780.33	158.68	39.14	-2.13	-4,422.52	347.95	4,524.08	4,461.16	62.93	71.893		
15,600.00	7,806.82	7,178.00	6,780.33	160.43	39.14	-2.13	-4,422.52	347.95	4,621.71	4,558.65	63.06	73.293		
15,700.00	7,806.81	7,178.00	6,780.33	162.18	39.14	-2.13	-4,422.52	347.95	4,719.43	4,656.24	63.19	74.691		
15,800.00	7,806.81	7,178.00	6,780.33	163.92	39.14	-2.13	-4,422.52	347.95	4,817.24	4,753.93	63.31	76.087		
15,900.00	7,806.81	7,178.00	6,780.33	165.67	39.14	-2.13	-4,422.52	347.95	4,915.15	4,851.71	63.44	77.480		
16,000.00	7,806.81	7,178.00	6,780.33	167.42	39.14	-2.13	-4,422.52	347.95	5,013.13	4,949.57	63.56	78.872		
16,100.00	7,806.80	7,178.00	6,780.33	169.17	39.14	-2.13	-4,422.52	347.95	5,111.19	5,047.51	63.68	80.261		
16,200.00	7,806.80	7,178.00	6,780.33	170.91	39.14	-2.13	-4,422.52	347.95	5,209.33	5,145.53	63.80	81.647		
16,300.00	7,806.80	7,178.00	6,780.33	172.66	39.14	-2.13	-4,422.52	347.95	5,307.54	5,243.62	63.92	83.031		
16,400.00	7,806.80	7,178.00	6,780.33	174.41	39.14	-2.13	-4,422.52	347.95	5,405.81	5,341.77	64.04	84.412		
16,500.00	7,806.79	7,178.00	6,780.33	176.16	39.14	-2.13	-4,422.52	347.95	5,504.15	5,439.99	64.16	85.790		
16,600.00	7,806.79	7,178.00	6,780.33	177.92	39.14	-2.13	-4,422.52	347.95	5,602.54	5,538.27	64.27	87.165		
16,700.00	7,806.79	7,178.00	6,780.33	179.67	39.14	-2.13	-4,422.52	347.95	5,700.99	5,636.60	64.39	88.537		
16,800.00	7,806.79	7,178.00	6,780.33	181.42	39.14	-2.13	-4,422.52	347.95	5,799.49	5,734.99	64.51	89.906		
16,900.00	7,806.78	7,178.00	6,780.33	183.17	39.14	-2.13	-4,422.52	347.95	5,898.05	5,833.43	64.62	91.272		
17,000.00	7,806.78	7,178.00	6,780.33	184.92	39.14	-2.13	-4,422.52	347.95	5,996.65	5,931.91	64.73	92.634		
17,100.00	7,806.78	7,178.00	6,780.33	186.68	39.14	-2.13	-4,422.52	347.95	6,095.29	6,030.45	64.85	93.993		
17,200.00	7,806.78	7,178.00	6,780.33	188.43	39.14	-2.13	-4,422.52	347.95	6,193.98	6,129.02	64.96	95.349		
17,300.00	7,806.77	7,178.00	6,780.33	190.18	39.14	-2.13	-4,422.52	347.95	6,292.71	6,227.64	65.07	96.701		
17,400.00	7,806.77	7,178.00	6,780.33	191.94	39.14	-2.13	-4,422.52	347.95	6,391.49	6,326.30	65.19	98.050		
17,500.00	7,806.77	7,178.00	6,780.33	193.69	39.14	-2.13	-4,422.52	347.95	6,490.29	6,425.00	65.30	99.395		
17,600.00	7,806.77	7,178.00	6,780.33	195.45	39.14	-2.13	-4,422.52	347.95	6,589.14	6,523.73	65.41	100.736		
17,700.00	7,806.76	7,178.00	6,780.33	197.20	39.14	-2.13	-4,422.52	347.95	6,688.02	6,622.50	65.52	102.074		
17,800.00	7,806.76	7,178.00	6,780.33	198.96	39.14	-2.13	-4,422.52	347.95	6,786.93	6,721.30	65.63	103.408		
17,877.44	7,807.00	7,178.00	6,780.33	200.32	39.14	-2.13	-4,422.52	347.95	6,863.59	6,797.87	65.72	104.439		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	153.08	-3,283.28	1,667.32	3,682.57					
100.00	100.00	62.00	62.00	0.13	0.72	153.08	-3,283.28	1,667.32	3,682.37	3,681.52	0.85	4,319.188		
200.00	200.00	162.00	162.00	0.49	2.58	153.08	-3,283.28	1,667.32	3,682.37	3,679.30	3.08	1,197.016		
300.00	300.00	262.00	262.00	0.85	4.75	153.08	-3,283.28	1,667.32	3,682.37	3,676.78	5.60	657.895		
400.00	400.00	362.00	362.00	1.21	6.80	153.08	-3,283.28	1,667.32	3,682.37	3,674.36	8.01	459.609		
500.00	500.00	462.00	462.00	1.57	8.84	153.08	-3,283.28	1,667.32	3,682.37	3,671.97	10.40	353.918		
600.00	600.00	562.00	562.00	1.93	10.86	153.08	-3,283.28	1,667.32	3,682.37	3,669.59	12.79	287.950		
700.00	700.00	662.00	662.00	2.29	12.88	153.08	-3,283.28	1,667.32	3,682.37	3,667.21	15.17	242.783		
800.00	800.00	762.00	762.00	2.64	14.90	153.08	-3,283.28	1,667.32	3,682.37	3,664.83	17.54	209.896		
900.00	900.00	862.00	862.00	3.00	16.92	153.08	-3,283.28	1,667.32	3,682.37	3,662.46	19.92	184.872		
1,000.00	1,000.00	962.00	962.00	3.36	18.93	153.08	-3,283.28	1,667.32	3,682.37	3,660.08	22.29	165.187		
1,100.00	1,100.00	1,062.00	1,062.00	3.72	20.95	153.08	-3,283.28	1,667.32	3,682.37	3,657.71	24.66	149.296		
1,200.00	1,200.00	1,162.00	1,162.00	4.08	22.96	153.08	-3,283.28	1,667.32	3,682.37	3,655.34	27.04	136.197		
1,300.00	1,300.00	1,262.00	1,262.00	4.44	24.97	153.08	-3,283.28	1,667.32	3,682.37	3,652.96	29.41	125.213		
1,400.00	1,400.00	1,362.00	1,362.00	4.79	26.99	153.08	-3,283.28	1,667.32	3,682.37	3,650.59	31.78	115.870		
1,500.00	1,499.98	1,461.98	1,461.98	5.14	29.00	-10.69	-3,283.28	1,667.32	3,680.66	3,646.53	34.13	107.832		
1,600.00	1,599.84	1,561.84	1,561.84	5.46	31.01	-10.73	-3,283.28	1,667.32	3,675.52	3,639.05	36.47	100.781		
1,700.00	1,699.45	1,661.45	1,661.45	5.80	33.01	-10.78	-3,283.28	1,667.32	3,666.95	3,628.15	38.81	94.495		
1,800.00	1,798.70	1,760.70	1,760.70	6.14	35.01	-10.86	-3,283.28	1,667.32	3,654.98	3,613.84	41.14	88.848		
1,900.00	1,897.47	1,859.47	1,859.47	6.49	37.00	-10.97	-3,283.28	1,667.32	3,639.61	3,596.15	43.46	83.743		
1,969.08	1,965.35	1,927.35	1,927.35	6.75	38.36	-11.06	-3,283.28	1,667.32	3,627.03	3,581.96	45.06	80.488		
2,000.00	1,995.66	1,957.66	1,957.66	6.86	38.97	-11.08	-3,283.28	1,667.32	3,621.03	3,575.26	45.78	79.099		
2,100.00	2,093.69	2,055.69	2,055.69	7.25	40.94	-11.14	-3,283.28	1,667.32	3,601.66	3,553.57	48.09	74.894		
2,200.00	2,191.72	2,153.72	2,153.72	7.65	42.92	-11.20	-3,283.28	1,667.32	3,582.28	3,531.87	50.41	71.069		
2,300.00	2,289.76	2,251.76	2,251.76	8.07	44.89	-11.26	-3,283.28	1,667.32	3,562.91	3,510.18	52.73	67.575		
2,400.00	2,387.79	2,349.79	2,349.79	8.49	46.86	-11.32	-3,283.28	1,667.32	3,543.54	3,488.49	55.05	64.371		
2,500.00	2,485.82	2,447.82	2,447.82	8.91	48.83	-11.38	-3,283.28	1,667.32	3,524.18	3,466.81	57.37	61.424		
2,600.00	2,583.86	2,545.86	2,545.86	9.35	50.80	-11.45	-3,283.28	1,667.32	3,504.82	3,445.12	59.70	58.705		
2,700.00	2,681.89	2,643.89	2,643.89	9.79	52.78	-11.51	-3,283.28	1,667.32	3,485.47	3,423.43	62.03	56.187		
2,800.00	2,779.92	2,741.92	2,741.92	10.24	54.75	-11.58	-3,283.28	1,667.32	3,466.12	3,401.75	64.37	53.850		
2,900.00	2,877.96	2,839.96	2,839.96	10.69	56.72	-11.64	-3,283.28	1,667.32	3,446.77	3,380.07	66.70	51.676		
3,000.00	2,975.99	2,937.99	2,937.99	11.14	58.69	-11.71	-3,283.28	1,667.32	3,427.43	3,358.39	69.04	49.647		
3,100.00	3,074.02	3,036.02	3,036.02	11.60	60.66	-11.78	-3,283.28	1,667.32	3,408.09	3,336.72	71.37	47.750		
3,200.00	3,172.06	3,134.06	3,134.06	12.06	62.63	-11.84	-3,283.28	1,667.32	3,388.76	3,315.05	73.71	45.973		
3,300.00	3,270.09	3,232.09	3,232.09	12.52	64.61	-11.91	-3,283.28	1,667.32	3,369.43	3,293.38	76.05	44.304		
3,400.00	3,368.12	3,330.12	3,330.12	12.98	66.58	-11.98	-3,283.28	1,667.32	3,350.11	3,271.71	78.39	42.734		
3,500.00	3,466.16	3,428.16	3,428.16	13.45	68.55	-12.05	-3,283.28	1,667.32	3,330.79	3,250.05	80.74	41.255		
3,600.00	3,564.19	3,526.19	3,526.19	13.92	70.52	-12.12	-3,283.28	1,667.32	3,311.48	3,228.40	83.08	39.859		
3,700.00	3,662.23	3,624.23	3,624.23	14.39	72.49	-12.20	-3,283.28	1,667.32	3,292.17	3,206.74	85.42	38.539		
3,800.00	3,760.26	3,722.26	3,722.26	14.86	74.46	-12.27	-3,283.28	1,667.32	3,272.87	3,185.10	87.77	37.289		
3,900.00	3,858.29	3,820.29	3,820.29	15.34	76.44	-12.34	-3,283.28	1,667.32	3,253.57	3,163.45	90.12	36.104		
4,000.00	3,956.33	3,918.33	3,918.33	15.81	78.41	-12.42	-3,283.28	1,667.32	3,234.28	3,141.81	92.46	34.979		
4,100.00	4,054.36	4,016.36	4,016.36	16.29	80.38	-12.49	-3,283.28	1,667.32	3,214.99	3,120.18	94.81	33.910		
4,200.00	4,152.39	4,114.39	4,114.39	16.77	82.35	-12.57	-3,283.28	1,667.32	3,195.71	3,098.55	97.16	32.892		
4,300.00	4,250.43	4,212.43	4,212.43	17.25	84.32	-12.65	-3,283.28	1,667.32	3,176.43	3,076.92	99.51	31.921		
4,400.00	4,348.46	4,310.46	4,310.46	17.73	86.29	-12.73	-3,283.28	1,667.32	3,157.16	3,055.30	101.86	30.996		
4,500.00	4,446.49	4,408.49	4,408.49	18.21	88.27	-12.81	-3,283.28	1,667.32	3,137.89	3,033.69	104.21	30.112		
4,600.00	4,544.53	4,506.53	4,506.53	18.69	90.24	-12.89	-3,283.28	1,667.32	3,118.64	3,012.08	106.56	29.267		
4,700.00	4,642.56	4,604.56	4,604.56	19.17	92.21	-12.97	-3,283.28	1,667.32	3,099.38	2,990.47	108.91	28.458		
4,800.00	4,740.59	4,702.59	4,702.59	19.65	94.18	-13.05	-3,283.28	1,667.32	3,080.14	2,968.87	111.26	27.684		
4,900.00	4,838.63	4,800.63	4,800.63	20.13	96.15	-13.13	-3,283.28	1,667.32	3,060.89	2,947.28	113.61	26.941		
5,000.00	4,936.66	4,901.34	4,898.66	20.62	98.18	-13.22	-3,283.28	1,667.32	3,041.66	2,925.64	116.02	26.216		

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-20-3N
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-20-3N	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	5,034.69	5,003.31	4,996.69	21.10	100.23	-13.30	-3,283.28	1,667.32	3,022.43	2,903.98	118.45	25.516		
5,200.00	5,132.73	5,105.27	5,094.73	21.59	102.28	-13.39	-3,283.28	1,667.32	3,003.21	2,882.32	120.89	24.843		
5,300.00	5,230.76	5,207.24	5,192.76	22.07	104.33	-13.48	-3,283.28	1,667.32	2,984.00	2,860.68	123.32	24.197		
5,400.00	5,328.79	5,309.21	5,290.79	22.56	106.38	-13.56	-3,283.28	1,667.32	2,964.79	2,839.03	125.75	23.576		
5,500.00	5,426.83	5,388.83	5,388.83	23.04	107.98	-13.65	-3,283.28	1,667.32	2,945.59	2,817.85	127.74	23.059		
5,600.00	5,524.86	5,486.86	5,486.86	23.53	109.95	-13.75	-3,283.28	1,667.32	2,926.39	2,796.30	130.10	22.494		
5,700.00	5,622.89	5,584.89	5,584.89	24.02	111.92	-13.84	-3,283.28	1,667.32	2,907.21	2,774.75	132.45	21.949		
5,800.00	5,720.93	5,682.93	5,682.93	24.50	113.90	-13.93	-3,283.28	1,667.32	2,888.03	2,753.22	134.81	21.423		
5,900.00	5,818.96	5,780.96	5,780.96	24.99	115.87	-14.03	-3,283.28	1,667.32	2,868.86	2,731.69	137.17	20.915		
6,000.00	5,916.99	5,878.99	5,878.99	25.48	117.84	-14.12	-3,283.28	1,667.32	2,849.69	2,710.17	139.52	20.424		
6,100.00	6,015.03	5,977.03	5,977.03	25.97	119.81	-14.22	-3,283.28	1,667.32	2,830.54	2,688.65	141.88	19.950		
6,200.00	6,113.06	6,075.06	6,075.06	26.45	121.78	-14.32	-3,283.28	1,667.32	2,811.39	2,667.15	144.24	19.491		
6,300.00	6,211.09	6,173.09	6,173.09	26.94	123.75	-14.42	-3,283.28	1,667.32	2,792.25	2,645.65	146.60	19.047		
6,400.00	6,309.13	6,271.13	6,271.13	27.43	125.72	-14.52	-3,283.28	1,667.32	2,773.12	2,624.16	148.96	18.616		
6,500.00	6,407.16	6,369.16	6,369.16	27.92	127.70	-14.62	-3,283.28	1,667.32	2,753.99	2,602.67	151.32	18.200		
6,600.00	6,505.19	6,467.19	6,467.19	28.41	129.67	-14.73	-3,283.28	1,667.32	2,734.88	2,581.20	153.68	17.796		
6,664.73	6,568.65	6,530.65	6,530.65	28.73	130.94	-14.80	-3,283.28	1,667.32	2,722.51	2,567.30	155.21	17.541		
6,700.00	6,603.27	6,565.27	6,565.27	28.90	131.64	-14.80	-3,283.28	1,667.32	2,715.98	2,559.94	156.04	17.405		
6,800.00	6,701.84	6,663.84	6,663.84	29.36	133.62	-14.80	-3,283.28	1,667.32	2,699.71	2,541.31	158.41	17.043		
6,900.00	6,800.94	6,762.94	6,762.94	29.78	135.61	-14.81	-3,283.28	1,667.32	2,686.79	2,526.02	160.77	16.712		
7,000.00	6,900.45	6,862.45	6,862.45	30.17	137.62	-14.82	-3,283.28	1,667.32	2,677.23	2,514.09	163.14	16.411		
7,100.00	7,000.24	6,962.24	6,962.24	30.53	139.62	-14.82	-3,283.28	1,667.32	2,671.03	2,505.53	165.50	16.139		
7,200.00	7,100.19	7,062.19	7,062.19	30.85	141.63	-14.82	-3,283.28	1,667.32	2,668.20	2,500.35	167.86	15.896		
7,233.81	7,134.00	7,104.00	7,096.00	30.95	142.47	148.94	-3,283.28	1,667.32	2,668.01	2,499.20	168.81	15.805		
7,300.00	7,200.19	7,162.19	7,162.19	31.12	143.64	148.94	-3,283.28	1,667.32	2,668.01	2,497.82	170.18	15.677		
7,333.81	7,234.00	7,204.00	7,196.00	31.21	144.48	148.94	-3,283.28	1,667.32	2,668.01	2,496.88	171.13	15.591		
7,350.00	7,250.18	7,212.18	7,212.18	31.26	144.65	-30.73	-3,283.28	1,667.32	2,667.81	2,496.46	171.35	15.570		
7,400.00	7,300.04	7,262.04	7,262.04	31.44	145.65	-30.93	-3,283.28	1,667.32	2,664.73	2,492.19	172.53	15.445		
7,450.00	7,349.39	7,311.39	7,311.39	31.66	146.64	-31.38	-3,283.28	1,667.32	2,657.92	2,484.20	173.72	15.300		
7,500.00	7,397.87	7,359.87	7,359.87	31.92	147.62	-32.08	-3,283.28	1,667.32	2,647.46	2,472.55	174.91	15.136		
7,550.00	7,445.09	7,407.09	7,407.09	32.22	148.57	-33.05	-3,283.28	1,667.32	2,633.44	2,457.36	176.08	14.956		
7,600.00	7,490.72	7,452.72	7,452.72	32.55	149.49	-34.33	-3,283.28	1,667.32	2,615.99	2,438.75	177.24	14.760		
7,650.00	7,534.38	7,503.62	7,496.38	32.92	150.51	-35.93	-3,283.28	1,667.32	2,595.26	2,416.76	178.50	14.539		
7,700.00	7,575.77	7,537.77	7,537.77	33.32	151.20	-37.91	-3,283.28	1,667.32	2,571.45	2,392.01	179.44	14.330		
7,750.00	7,614.55	7,576.55	7,576.55	33.75	151.98	-40.31	-3,283.28	1,667.32	2,544.76	2,364.28	180.48	14.100		
7,800.00	7,650.43	7,612.43	7,612.43	34.22	152.70	-43.19	-3,283.28	1,667.32	2,515.45	2,333.98	181.46	13.862		
7,850.00	7,683.15	7,645.15	7,645.15	34.71	153.36	-46.59	-3,283.28	1,667.32	2,483.77	2,301.38	182.39	13.618		
7,900.00	7,712.45	7,674.45	7,674.45	35.23	153.95	-50.58	-3,283.28	1,667.32	2,450.02	2,266.76	183.26	13.369		
7,950.00	7,738.11	7,700.11	7,700.11	35.78	154.46	-55.20	-3,283.28	1,667.32	2,414.49	2,230.43	184.06	13.118		
8,000.00	7,759.93	7,721.93	7,721.93	36.35	154.90	-60.43	-3,283.28	1,667.32	2,377.51	2,192.72	184.79	12.866		
8,050.00	7,777.75	7,739.75	7,739.75	36.93	155.26	-66.25	-3,283.28	1,667.32	2,339.40	2,153.94	185.46	12.614		
8,100.00	7,791.43	7,753.43	7,753.43	37.53	155.53	-72.53	-3,283.28	1,667.32	2,300.50	2,114.45	186.05	12.365		
8,150.00	7,800.87	7,762.87	7,762.87	38.14	155.72	-79.07	-3,283.28	1,667.32	2,261.14	2,074.57	186.57	12.119		
8,200.00	7,806.00	7,768.00	7,768.00	38.76	155.83	-85.65	-3,283.28	1,667.32	2,221.67	2,034.65	187.02	11.879		
8,233.89	7,807.00	7,769.00	7,769.00	39.18	155.85	-90.00	-3,283.28	1,667.32	2,195.02	2,007.73	187.29	11.720		
8,300.00	7,807.00	7,769.00	7,769.00	40.00	155.85	-90.00	-3,283.28	1,667.32	2,143.60	1,955.79	187.81	11.414		
8,400.00	7,807.00	7,769.00	7,769.00	41.29	155.85	-90.00	-3,283.28	1,667.32	2,067.39	1,878.68	188.71	10.955		
8,500.00	7,806.99	7,768.99	7,768.99	42.60	155.85	-90.00	-3,283.28	1,667.32	1,993.29	1,803.53	189.77	10.504		
8,600.00	7,806.99	7,768.99	7,768.99	43.95	155.85	-90.00	-3,283.28	1,667.32	1,921.54	1,730.56	190.98	10.061		
8,700.00	7,806.99	7,768.99	7,768.99	45.33	155.85	-90.00	-3,283.28	1,667.32	1,852.42	1,660.04	192.38	9.629		
8,800.00	7,806.99	7,768.99	7,768.99	46.74	155.85	-90.00	-3,283.28	1,667.32	1,786.21	1,592.26	193.95	9.210		
8,900.00	7,806.98	7,768.98	7,768.98	48.17	155.85	-90.00	-3,283.28	1,667.32	1,723.27	1,527.56	195.71	8.805		

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-20-3N
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-20-3N	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	7,806.98	7,768.98	7,768.98	49.62	155.85	-90.00	-3,283.28	1,667.32	1,663.96	1,466.32	197.64	8.419		
9,100.00	7,806.98	7,768.98	7,768.98	51.09	155.85	-90.00	-3,283.28	1,667.32	1,608.69	1,408.94	199.75	8.053		
9,200.00	7,806.98	7,768.98	7,768.98	52.59	155.85	-90.00	-3,283.28	1,667.32	1,557.88	1,355.86	202.02	7.712		
9,300.00	7,806.97	7,768.97	7,768.97	54.09	155.85	-90.00	-3,283.28	1,667.32	1,511.99	1,307.57	204.41	7.397		
9,400.00	7,806.97	7,768.97	7,768.97	55.62	155.85	-90.00	-3,283.28	1,667.32	1,471.47	1,264.57	206.90	7.112		
9,500.00	7,806.97	7,768.97	7,768.97	57.16	155.85	-90.00	-3,283.28	1,667.32	1,436.77	1,227.34	209.43	6.860		
9,600.00	7,806.97	7,768.97	7,768.97	58.71	155.85	-90.00	-3,283.28	1,667.32	1,408.34	1,196.38	211.96	6.644		
9,700.00	7,806.96	7,768.96	7,768.96	60.27	155.85	-90.00	-3,283.28	1,667.32	1,386.56	1,172.14	214.42	6.467		
9,800.00	7,806.96	7,768.96	7,768.96	61.84	155.85	-90.00	-3,283.28	1,667.32	1,371.73	1,154.98	216.75	6.329		
9,900.00	7,806.96	7,768.96	7,768.96	63.43	155.85	-90.00	-3,283.28	1,667.32	1,364.10	1,145.19	218.90	6.232		
9,954.45	7,806.96	7,768.96	7,768.96	64.30	155.85	-90.00	-3,283.28	1,667.32	1,363.01	1,143.03	219.98	6.196 CC		
10,000.00	7,806.96	7,768.96	7,768.96	65.02	155.85	-90.00	-3,283.28	1,667.32	1,363.77	1,142.96	220.81	6.176 ES		
10,100.00	7,806.95	7,768.95	7,768.95	66.63	155.85	-90.00	-3,283.28	1,667.32	1,370.76	1,148.31	222.45	6.162 SF		
10,200.00	7,806.95	7,768.95	7,768.95	68.24	155.85	-90.00	-3,283.28	1,667.32	1,384.95	1,161.16	223.79	6.189		
10,300.00	7,806.95	7,768.95	7,768.95	69.86	155.85	-90.00	-3,283.28	1,667.32	1,406.13	1,181.30	224.83	6.254		
10,400.00	7,806.95	7,768.95	7,768.95	71.49	155.85	-90.00	-3,283.28	1,667.32	1,433.98	1,208.41	225.57	6.357		
10,500.00	7,806.94	7,768.94	7,768.94	73.12	155.85	-90.00	-3,283.28	1,667.32	1,468.13	1,242.10	226.03	6.495		
10,600.00	7,806.94	7,768.94	7,768.94	74.76	155.85	-90.00	-3,283.28	1,667.32	1,508.15	1,281.90	226.25	6.666		
10,700.00	7,806.94	7,768.94	7,768.94	76.41	155.85	-90.00	-3,283.28	1,667.32	1,553.59	1,327.33	226.25	6.867		
10,800.00	7,806.94	7,768.94	7,768.94	78.06	155.85	-90.00	-3,283.28	1,667.32	1,603.98	1,377.90	226.08	7.095		
10,900.00	7,806.93	7,768.93	7,768.93	79.72	155.85	-90.00	-3,283.28	1,667.32	1,658.87	1,433.11	225.76	7.348		
11,000.00	7,806.93	7,768.93	7,768.93	81.38	155.85	-90.00	-3,283.28	1,667.32	1,717.84	1,492.51	225.33	7.624		
11,100.00	7,806.93	7,768.93	7,768.93	83.05	155.85	-90.00	-3,283.28	1,667.32	1,780.47	1,555.66	224.81	7.920		
11,200.00	7,806.93	7,768.93	7,768.93	84.72	155.85	-90.00	-3,283.28	1,667.32	1,846.40	1,622.17	224.23	8.234		
11,300.00	7,806.92	7,768.92	7,768.92	86.39	155.85	-90.00	-3,283.28	1,667.32	1,915.28	1,691.67	223.61	8.565		
11,400.00	7,806.92	7,768.92	7,768.92	88.07	155.85	-90.00	-3,283.28	1,667.32	1,986.81	1,763.84	222.96	8.911		
11,500.00	7,806.92	7,768.92	7,768.92	89.75	155.84	-90.00	-3,283.28	1,667.32	2,060.71	1,838.40	222.31	9.270		
11,600.00	7,806.92	7,768.92	7,768.92	91.44	155.84	-90.00	-3,283.28	1,667.32	2,136.73	1,915.09	221.64	9.640		
11,700.00	7,806.91	7,768.91	7,768.91	93.13	155.84	-90.00	-3,283.28	1,667.32	2,214.66	1,993.68	220.99	10.022		
11,800.00	7,806.91	7,768.91	7,768.91	94.82	155.84	-90.00	-3,283.28	1,667.32	2,294.31	2,073.97	220.34	10.413		
11,900.00	7,806.91	7,768.91	7,768.91	96.52	155.84	-90.00	-3,283.28	1,667.32	2,375.49	2,155.78	219.71	10.812		
12,000.00	7,806.91	7,768.91	7,768.91	98.21	155.84	-90.00	-3,283.28	1,667.32	2,458.06	2,238.96	219.10	11.219		
12,100.00	7,806.90	7,768.90	7,768.90	99.91	155.84	-90.00	-3,283.28	1,667.32	2,541.88	2,323.38	218.50	11.633		
12,200.00	7,806.90	7,768.90	7,768.90	101.62	155.84	-90.00	-3,283.28	1,667.32	2,626.84	2,408.91	217.93	12.053		
12,300.00	7,806.90	7,768.90	7,768.90	103.32	155.84	-90.00	-3,283.28	1,667.32	2,712.82	2,495.44	217.38	12.480		
12,400.00	7,806.90	7,768.90	7,768.90	105.03	155.84	-90.00	-3,283.28	1,667.32	2,799.73	2,582.88	216.85	12.911		
12,500.00	7,806.89	7,768.89	7,768.89	106.74	155.84	-90.00	-3,283.28	1,667.32	2,887.49	2,671.14	216.35	13.346		
12,600.00	7,806.89	7,768.89	7,768.89	108.45	155.84	-90.00	-3,283.28	1,667.32	2,976.02	2,760.16	215.87	13.786		
12,700.00	7,806.89	7,768.89	7,768.89	110.17	155.84	-90.00	-3,283.28	1,667.32	3,065.26	2,849.86	215.41	14.230		
12,800.00	7,806.89	7,768.89	7,768.89	111.88	155.84	-90.00	-3,283.28	1,667.32	3,155.14	2,940.18	214.96	14.677		
12,900.00	7,806.88	7,768.88	7,768.88	113.60	155.84	-90.00	-3,283.28	1,667.32	3,245.62	3,031.08	214.54	15.128		
13,000.00	7,806.88	7,768.88	7,768.88	115.32	155.84	-90.00	-3,283.28	1,667.32	3,336.64	3,122.50	214.14	15.581		
13,100.00	7,806.88	7,768.88	7,768.88	117.04	155.84	-90.00	-3,283.28	1,667.32	3,428.16	3,214.40	213.76	16.037		
13,200.00	7,806.88	7,768.88	7,768.88	118.76	155.84	-90.00	-3,283.28	1,667.32	3,520.14	3,306.74	213.40	16.496		
13,300.00	7,806.87	7,768.87	7,768.87	120.48	155.84	-90.00	-3,283.28	1,667.32	3,612.55	3,399.50	213.05	16.956		
13,400.00	7,806.87	7,768.87	7,768.87	122.21	155.84	-90.00	-3,283.28	1,667.32	3,705.35	3,492.63	212.72	17.419		
13,500.00	7,806.87	7,768.87	7,768.87	123.94	155.84	-90.00	-3,283.28	1,667.32	3,798.51	3,586.11	212.40	17.883		
13,600.00	7,806.87	7,768.87	7,768.87	125.66	155.84	-90.00	-3,283.28	1,667.32	3,892.02	3,679.92	212.10	18.350		
13,700.00	7,806.86	7,768.86	7,768.86	127.39	155.84	-90.00	-3,283.28	1,667.32	3,985.84	3,774.02	211.82	18.817		
13,800.00	7,806.86	7,768.86	7,768.86	129.12	155.84	-90.00	-3,283.28	1,667.32	4,079.96	3,868.41	211.55	19.286		
13,900.00	7,806.86	7,768.86	7,768.86	130.85	155.84	-90.00	-3,283.28	1,667.32	4,174.34	3,963.06	211.29	19.757		
14,000.00	7,806.86	7,768.86	7,768.86	132.59	155.84	-90.00	-3,283.28	1,667.32	4,268.99	4,057.95	211.04	20.228		

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-20-3N
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-20-3N	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	7,806.85	7,768.85	7,768.85	134.32	155.84	-90.00	-3,283.28	1,667.32	4,363.87	4,153.07	210.80	20.701		
14,200.00	7,806.85	7,768.85	7,768.85	136.06	155.84	-90.00	-3,283.28	1,667.32	4,458.98	4,248.40	210.58	21.175		
14,300.00	7,806.85	7,768.85	7,768.85	137.79	155.84	-90.00	-3,283.28	1,667.32	4,554.29	4,343.93	210.37	21.649		
14,400.00	7,806.85	7,768.85	7,768.85	139.53	155.84	-90.00	-3,283.28	1,667.32	4,649.81	4,439.64	210.16	22.125		
14,500.00	7,806.84	7,768.84	7,768.84	141.27	155.84	-90.00	-3,283.28	1,667.32	4,745.50	4,535.54	209.97	22.601		
14,600.00	7,806.84	7,768.84	7,768.84	143.00	155.84	-90.00	-3,283.28	1,667.32	4,841.38	4,631.59	209.78	23.078		
14,700.00	7,806.84	7,768.84	7,768.84	144.74	155.84	-90.00	-3,283.28	1,667.32	4,937.41	4,727.80	209.61	23.555		
14,800.00	7,806.84	7,768.84	7,768.84	146.48	155.84	-89.99	-3,283.28	1,667.32	5,033.60	4,824.16	209.44	24.034		
14,900.00	7,806.83	7,768.83	7,768.83	148.22	155.84	-89.99	-3,283.28	1,667.32	5,129.94	4,920.66	209.28	24.512		
15,000.00	7,806.83	7,768.83	7,768.83	149.97	155.84	-89.99	-3,283.28	1,667.32	5,226.41	5,017.28	209.13	24.991		
15,100.00	7,806.83	7,768.83	7,768.83	151.71	155.84	-89.99	-3,283.28	1,667.32	5,323.01	5,114.03	208.98	25.471		
15,200.00	7,806.83	7,768.83	7,768.83	153.45	155.84	-89.99	-3,283.28	1,667.32	5,419.74	5,210.89	208.85	25.951		
15,300.00	7,806.82	7,768.82	7,768.82	155.19	155.84	-89.99	-3,283.28	1,667.32	5,516.58	5,307.87	208.72	26.431		
15,400.00	7,806.82	7,768.82	7,768.82	156.94	155.84	-89.99	-3,283.28	1,667.32	5,613.54	5,404.94	208.59	26.912		
15,500.00	7,806.82	7,768.82	7,768.82	158.68	155.84	-89.99	-3,283.28	1,667.32	5,710.60	5,502.12	208.47	27.392		
15,600.00	7,806.82	7,768.82	7,768.82	160.43	155.84	-89.99	-3,283.28	1,667.32	5,807.75	5,599.39	208.36	27.873		
15,700.00	7,806.81	7,768.81	7,768.81	162.18	155.84	-89.99	-3,283.28	1,667.32	5,905.01	5,696.75	208.26	28.355		
15,800.00	7,806.81	7,768.81	7,768.81	163.92	155.84	-89.99	-3,283.28	1,667.32	6,002.35	5,794.20	208.15	28.836		
15,900.00	7,806.81	7,768.81	7,768.81	165.67	155.84	-89.99	-3,283.28	1,667.32	6,099.78	5,891.72	208.06	29.318		
16,000.00	7,806.81	7,768.81	7,768.81	167.42	155.84	-89.99	-3,283.28	1,667.32	6,197.29	5,989.33	207.97	29.799		
16,100.00	7,806.80	7,768.80	7,768.80	169.17	155.84	-89.99	-3,283.28	1,667.32	6,294.88	6,087.00	207.88	30.281		
16,200.00	7,806.80	7,768.80	7,768.80	170.91	155.84	-89.99	-3,283.28	1,667.32	6,392.55	6,184.75	207.80	30.763		
16,300.00	7,806.80	7,768.80	7,768.80	172.66	155.84	-89.99	-3,283.28	1,667.32	6,490.28	6,282.56	207.72	31.245		
16,400.00	7,806.80	7,768.80	7,768.80	174.41	155.84	-89.99	-3,283.28	1,667.32	6,588.09	6,380.43	207.65	31.727		
16,500.00	7,806.79	7,768.79	7,768.79	176.16	155.84	-89.99	-3,283.28	1,667.32	6,685.96	6,478.37	207.58	32.208		
16,600.00	7,806.79	7,768.79	7,768.79	177.92	155.84	-89.99	-3,283.28	1,667.32	6,783.89	6,576.37	207.52	32.690		
16,700.00	7,806.79	7,768.79	7,768.79	179.67	155.84	-89.99	-3,283.28	1,667.32	6,881.88	6,674.42	207.46	33.172		
16,800.00	7,806.79	7,768.79	7,768.79	181.42	155.84	-89.99	-3,283.28	1,667.32	6,979.92	6,772.52	207.40	33.654		
16,900.00	7,806.78	7,768.78	7,768.78	183.17	155.84	-89.99	-3,283.28	1,667.32	7,078.03	6,870.67	207.35	34.135		
17,000.00	7,806.78	7,768.78	7,768.78	184.92	155.84	-89.99	-3,283.28	1,667.32	7,176.18	6,968.88	207.30	34.617		
17,100.00	7,806.78	7,768.78	7,768.78	186.68	155.84	-89.99	-3,283.28	1,667.32	7,274.38	7,067.13	207.26	35.099		
17,200.00	7,806.78	7,768.78	7,768.78	188.43	155.84	-89.99	-3,283.28	1,667.32	7,372.64	7,165.42	207.21	35.580		
17,300.00	7,806.77	7,768.77	7,768.77	190.18	155.84	-89.99	-3,283.28	1,667.32	7,470.94	7,263.76	207.17	36.061		
17,400.00	7,806.77	7,768.77	7,768.77	191.94	155.84	-89.99	-3,283.28	1,667.32	7,569.28	7,362.14	207.14	36.542		
17,500.00	7,806.77	7,768.77	7,768.77	193.69	155.84	-89.99	-3,283.28	1,667.32	7,667.67	7,460.56	207.10	37.023		
17,600.00	7,806.77	7,768.77	7,768.77	195.45	155.84	-89.99	-3,283.28	1,667.32	7,766.09	7,559.02	207.07	37.504		
17,700.00	7,806.76	7,768.76	7,768.76	197.20	155.84	-89.99	-3,283.28	1,667.32	7,864.56	7,657.51	207.05	37.984		
17,800.00	7,806.76	7,768.76	7,768.76	198.96	155.84	-89.99	-3,283.28	1,667.32	7,963.07	7,756.04	207.02	38.465		
17,877.44	7,807.00	7,769.00	7,769.00	200.32	155.85	-89.99	-3,283.28	1,667.32	8,039.36	7,832.36	207.01	38.836		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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		
0.00	0.00	0.00	0.00	0.00	0.00	153.72	-3,286.19	1,622.78	3,665.08					
100.00	100.00	100.00	1,232.87	0.13	2.43	154.51	-3,136.19	1,495.01	3,660.26	3,659.08	1.18	3,093.673		
200.00	200.00	1,331.13	1,303.16	0.49	5.99	154.60	-3,117.44	1,479.99	3,628.78	3,623.00	5.79	627.254		
300.00	300.00	1,435.50	1,402.31	0.85	6.64	154.72	-3,091.50	1,460.23	3,598.19	3,591.73	6.46	557.356		
400.00	400.00	1,655.51	1,609.76	1.21	8.07	155.00	-3,033.96	1,414.95	3,566.07	3,558.38	7.69	463.903		
500.00	500.00	1,736.73	1,685.90	1.57	8.62	155.10	-3,011.34	1,397.96	3,531.89	3,523.56	8.33	423.789		
600.00	600.00	1,796.94	1,742.46	1.93	9.02	155.17	-2,994.68	1,385.78	3,498.22	3,489.31	8.91	392.697		
700.00	700.00	1,859.25	1,801.21	2.29	9.44	155.24	-2,977.98	1,373.43	3,465.48	3,455.97	9.50	364.616		
800.00	800.00	1,928.00	1,866.18	2.64	9.89	155.33	-2,960.20	1,359.68	3,433.53	3,423.40	10.14	338.723		
900.00	900.00	2,025.90	1,958.71	3.00	10.54	155.48	-2,935.66	1,339.22	3,401.92	3,391.02	10.90	312.098		
1,000.00	1,000.00	2,072.96	2,003.25	3.36	10.84	155.56	-2,924.36	1,329.05	3,370.94	3,359.48	11.46	294.156		
1,100.00	1,100.00	2,134.13	2,061.36	3.72	11.24	155.67	-2,910.59	1,315.79	3,341.25	3,329.17	12.08	276.515		
1,200.00	1,200.00	2,200.00	2,201.65	4.08	5.10	155.96	-2,876.56	1,282.91	3,310.92	3,302.75	8.17	405.343		
1,300.00	1,300.00	2,368.26	2,283.05	4.44	12.77	156.12	-2,855.79	1,264.20	3,279.92	3,266.11	13.81	237.529		
1,400.00	1,400.00	2,450.05	2,360.66	4.79	13.31	156.27	-2,836.50	1,247.07	3,249.72	3,235.19	14.52	223.734		
1,500.00	1,499.98	2,534.36	2,440.66	5.14	13.86	-7.42	-2,816.77	1,229.19	3,217.99	3,202.75	15.24	211.153		
1,600.00	1,599.84	2,642.01	2,542.98	5.46	14.55	-7.34	-2,791.68	1,207.07	3,183.41	3,167.38	16.04	198.517		
1,700.00	1,699.45	2,730.96	2,627.32	5.80	15.13	-7.30	-2,770.29	1,188.58	3,144.85	3,128.09	16.76	187.670		
1,800.00	1,798.70	2,797.23	2,690.29	6.14	15.56	-7.30	-2,754.82	1,174.92	3,103.81	3,086.42	17.39	178.503		
1,900.00	1,897.47	2,866.00	2,755.85	6.49	15.99	-7.33	-2,738.99	1,161.45	3,060.32	3,042.30	18.02	169.786		
1,969.08	1,965.35	2,921.35	2,808.72	6.75	16.34	-7.35	-2,726.26	1,151.15	3,028.75	3,010.26	18.49	163.801		
2,000.00	1,995.66	2,946.78	2,833.02	6.86	16.50	-7.32	-2,720.39	1,146.54	3,014.32	2,995.62	18.70	161.186		
2,100.00	2,093.69	3,037.51	2,919.78	7.25	17.05	-7.23	-2,699.33	1,130.31	2,967.66	2,948.26	19.40	152.969		
2,200.00	2,191.72	3,130.13	3,008.24	7.65	17.63	-7.11	-2,678.03	1,113.03	2,920.90	2,900.78	20.12	145.200		
2,300.00	2,289.76	3,268.84	3,140.12	8.07	18.52	-6.88	-2,645.78	1,084.65	2,873.22	2,852.21	21.01	136.732		
2,400.00	2,387.79	3,361.66	3,228.11	8.49	19.13	-6.72	-2,623.49	1,065.22	2,824.78	2,803.03	21.75	129.882		
2,500.00	2,485.82	3,445.33	3,307.41	8.91	19.68	-6.57	-2,603.22	1,047.89	2,776.25	2,753.80	22.45	123.640		
2,600.00	2,583.86	3,510.93	3,369.69	9.35	20.11	-6.45	-2,587.70	1,034.28	2,728.22	2,705.12	23.10	118.092		
2,700.00	2,681.89	3,631.78	3,484.38	9.79	20.90	-6.22	-2,558.72	1,009.61	2,680.05	2,656.11	23.94	111.960		
2,800.00	2,779.92	3,722.86	3,570.66	10.24	21.50	-6.06	-2,536.18	991.12	2,631.29	2,606.62	24.67	106.642		
2,900.00	2,877.96	3,803.00	3,646.45	10.69	22.03	-5.89	-2,516.21	974.35	2,582.21	2,556.82	25.38	101.730		
3,000.00	2,975.99	3,867.83	3,707.86	11.14	22.46	-5.76	-2,500.40	960.89	2,533.71	2,507.66	26.05	97.274		
3,100.00	3,074.02	3,941.59	3,778.06	11.60	22.94	-5.60	-2,483.29	946.09	2,486.35	2,459.61	26.74	92.973		
3,200.00	3,172.06	4,033.03	3,864.97	12.06	23.53	-5.38	-2,462.25	926.96	2,438.90	2,411.41	27.50	88.690		
3,300.00	3,270.09	4,120.01	3,947.63	12.52	24.09	-5.15	-2,442.37	908.60	2,391.56	2,363.31	28.25	84.663		
3,400.00	3,368.12	4,210.89	4,033.98	12.98	24.68	-4.91	-2,421.45	889.47	2,344.12	2,315.11	29.01	80.804		
3,500.00	3,466.16	4,292.23	4,111.29	13.45	25.20	-4.70	-2,402.62	872.62	2,296.72	2,266.98	29.75	77.211		
3,600.00	3,564.19	4,360.76	4,176.63	13.92	25.64	-4.52	-2,386.93	859.14	2,249.93	2,219.48	30.45	73.899		
3,700.00	3,662.23	4,449.29	4,261.13	14.39	26.20	-4.29	-2,367.07	841.70	2,203.55	2,172.35	31.20	70.620		
3,800.00	3,760.26	4,555.71	4,362.48	14.86	26.88	-3.97	-2,343.09	819.89	2,156.85	2,124.84	32.01	67.375		
3,900.00	3,858.29	4,637.77	4,440.57	15.34	27.40	-3.72	-2,324.37	803.00	2,109.90	2,077.14	32.77	64.391		
4,000.00	3,956.33	4,761.62	4,558.18	15.81	28.21	-3.30	-2,295.61	776.95	2,062.57	2,028.95	33.62	61.348		
4,100.00	4,054.36	4,869.77	4,660.16	16.29	28.94	-2.91	-2,268.37	753.42	2,013.18	1,978.74	34.44	58.457		
4,200.00	4,152.39	4,928.19	4,715.44	16.77	29.34	-2.70	-2,253.93	741.24	1,964.65	1,929.49	35.17	55.869		
4,300.00	4,250.43	5,017.96	4,800.63	17.25	29.92	-2.39	-2,232.08	723.19	1,916.75	1,880.80	35.94	53.326		
4,400.00	4,348.46	5,149.12	4,924.52	17.73	30.81	-1.89	-2,198.61	696.13	1,867.64	1,830.85	36.78	50.773		
4,500.00	4,446.49	5,242.95	5,012.74	18.21	31.45	-1.51	-2,173.47	676.38	1,817.41	1,779.84	37.58	48.366		
4,600.00	4,544.53	5,320.08	5,085.23	18.69	31.99	-1.17	-2,153.03	659.74	1,767.35	1,728.99	38.36	46.069		
4,700.00	4,642.56	5,388.47	5,149.67	19.17	32.45	-0.84	-2,135.45	645.08	1,718.07	1,678.91	39.15	43.882		
4,800.00	4,740.59	5,489.73	5,245.13	19.65	33.15	-0.33	-2,109.58	623.37	1,669.00	1,629.02	39.98	41.750		
4,900.00	4,838.63	5,563.47	5,314.63	20.13	33.65	0.06	-2,090.62	607.63	1,619.88	1,579.09	40.79	39.715		
5,000.00	4,936.66	5,640.51	5,387.47	20.62	34.16	0.46	-2,071.14	591.82	1,571.45	1,529.85	41.60	37.771		

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-20-3N
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-20-3N	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		
5,100.00	5,034.69	5,732.23	5,474.29	21.10	34.78	0.97	-2,048.19	573.16	1,523.39	1,480.95	42.44	35.898		
5,200.00	5,132.73	5,826.80	5,563.42	21.59	35.42	1.59	-2,024.33	552.44	1,474.81	1,431.51	43.29	34.065		
5,300.00	5,230.76	5,905.48	5,637.60	22.07	35.96	2.13	-2,004.33	535.47	1,426.28	1,382.12	44.16	32.298		
5,400.00	5,328.79	5,976.98	5,705.29	22.56	36.43	2.62	-1,986.66	520.73	1,378.72	1,333.68	45.04	30.613		
5,500.00	5,426.83	6,048.55	5,773.27	23.04	36.90	3.15	-1,969.76	506.01	1,332.29	1,286.36	45.93	29.008		
5,600.00	5,524.86	6,121.77	5,843.08	23.53	37.36	3.71	-1,953.21	491.38	1,287.02	1,240.19	46.83	27.484		
5,700.00	5,622.89	6,197.97	5,916.04	24.02	37.83	4.29	-1,936.60	476.97	1,242.85	1,195.12	47.74	26.036		
5,800.00	5,720.93	6,274.06	5,989.03	24.50	38.29	4.92	-1,920.76	462.49	1,199.70	1,151.05	48.66	24.656		
5,900.00	5,818.96	6,350.69	6,062.96	24.99	38.73	5.52	-1,905.30	449.56	1,157.75	1,108.18	49.57	23.355		
6,000.00	5,916.99	6,431.65	6,141.38	25.48	39.17	6.12	-1,889.45	437.15	1,116.78	1,066.31	50.48	22.125		
6,100.00	6,015.03	6,514.48	6,221.79	25.97	39.62	6.75	-1,873.78	424.90	1,076.65	1,025.26	51.39	20.952		
6,200.00	6,113.06	6,584.00	6,289.47	26.45	39.98	7.32	-1,861.52	414.81	1,037.90	985.58	52.32	19.838		
6,300.00	6,211.09	6,655.35	6,359.23	26.94	40.33	7.92	-1,850.37	404.88	1,001.24	947.99	53.25	18.802		
6,400.00	6,309.13	6,734.24	6,436.69	27.43	40.70	8.59	-1,839.44	394.65	966.50	912.32	54.18	17.837		
6,500.00	6,407.16	6,823.55	6,524.52	27.92	41.10	9.35	-1,827.48	383.77	932.52	877.40	55.12	16.917		
6,600.00	6,505.19	6,908.89	6,608.70	28.41	41.47	10.03	-1,816.49	375.02	899.43	843.39	56.04	16.049		
6,664.73	6,568.65	6,966.44	6,665.56	28.73	41.71	10.47	-1,809.35	369.77	878.44	821.82	56.63	15.513		
6,700.00	6,603.27	6,997.04	6,695.81	28.90	41.83	10.65	-1,805.63	367.08	867.34	810.39	56.95	15.231		
6,800.00	6,701.84	7,079.27	6,777.19	29.36	42.16	11.18	-1,796.44	359.63	839.05	781.19	57.86	14.502		
6,900.00	6,800.94	7,156.42	6,853.69	29.78	42.45	11.68	-1,789.30	352.76	816.07	757.32	58.75	13.891		
7,000.00	6,900.45	7,236.56	6,933.39	30.17	42.72	12.14	-1,783.69	346.45	798.83	739.24	59.59	13.406		
7,100.00	7,000.24	7,318.98	7,015.53	30.53	42.98	12.54	-1,779.60	341.09	787.17	726.81	60.37	13.039		
7,200.00	7,100.19	7,403.22	7,099.60	30.85	43.22	12.89	-1,777.09	336.38	780.99	719.90	61.09	12.784		
7,233.81	7,134.00	7,432.06	7,128.39	30.95	43.30	176.77	-1,776.60	334.69	780.11	718.78	61.32	12.721		
7,300.00	7,200.19	7,491.46	7,187.69	31.12	43.45	177.02	-1,776.09	331.20	779.32	717.54	61.78	12.615		
7,333.81	7,234.00	7,523.04	7,219.23	31.21	43.53	177.13	-1,775.95	329.73	779.09	717.08	62.01	12.565		
7,350.00	7,250.18	7,538.16	7,234.34	31.26	43.56	-2.49	-1,775.91	329.13	778.78	716.67	62.12	12.538		
7,400.00	7,300.04	7,589.72	7,285.88	31.44	43.68	-2.40	-1,775.76	327.55	774.98	712.51	62.47	12.406		
7,450.00	7,349.39	7,642.58	7,338.72	31.66	43.81	-2.38	-1,775.36	326.50	766.65	703.83	62.82	12.204		
7,500.00	7,397.87	7,689.41	7,385.54	31.92	43.91	-2.43	-1,774.92	325.93	753.98	690.85	63.13	11.943		
7,550.00	7,445.09	7,734.82	7,430.95	32.22	44.02	-2.53	-1,774.58	325.55	737.26	673.82	63.44	11.622		
7,600.00	7,490.72	7,779.04	7,475.17	32.55	44.11	-2.69	-1,774.34	325.29	716.60	652.87	63.73	11.245		
7,650.00	7,534.38	7,821.43	7,517.56	32.92	44.20	-2.90	-1,774.18	325.10	692.12	628.12	64.00	10.815		
7,700.00	7,575.77	7,861.67	7,557.80	33.32	44.29	-3.19	-1,774.10	324.95	664.02	599.77	64.25	10.335		
7,750.00	7,614.55	7,899.46	7,595.59	33.75	44.37	-3.58	-1,774.07	324.86	632.48	568.00	64.48	9.809		
7,800.00	7,650.43	7,934.59	7,630.72	34.22	44.44	-4.11	-1,774.09	324.80	597.75	533.07	64.69	9.241		
7,850.00	7,683.15	7,966.92	7,663.05	34.71	44.51	-4.84	-1,774.15	324.79	560.06	495.21	64.85	8.636		
7,900.00	7,712.45	7,995.93	7,692.06	35.23	44.57	-5.88	-1,774.21	324.83	519.70	454.71	64.98	7.998		
7,950.00	7,738.11	8,021.40	7,717.53	35.78	44.62	-7.40	-1,774.28	324.89	476.95	411.88	65.07	7.330		
8,000.00	7,759.93	8,043.13	7,739.26	36.35	44.66	-9.74	-1,774.36	324.96	432.16	367.05	65.11	6.638		
8,050.00	7,777.75	8,060.95	7,757.07	36.93	44.70	-13.60	-1,774.42	325.04	385.65	320.57	65.09	5.925		
8,100.00	7,791.43	8,074.70	7,770.83	37.53	44.73	-20.55	-1,774.48	325.11	337.81	272.81	65.00	5.197		
8,150.00	7,800.87	8,084.28	7,780.41	38.14	44.74	-34.53	-1,774.52	325.16	288.99	224.17	64.82	4.458		
8,200.00	7,806.00	8,089.60	7,785.72	38.76	44.76	-62.85	-1,774.55	325.19	239.62	175.09	64.53	3.713		
8,233.89	7,807.00	8,090.75	7,786.87	39.18	44.76	-87.85	-1,774.55	325.20	206.06	141.82	64.24	3.208		
8,300.00	7,807.00	8,091.05	7,787.18	40.00	44.76	-88.43	-1,774.55	325.20	140.98	77.60	63.38	2.224		
8,400.00	7,807.00	8,091.51	7,787.64	41.29	44.76	-89.32	-1,774.55	325.20	48.17	-14.97	63.14	0.763 Level 1		
8,437.78	7,807.00	8,091.69	7,787.81	41.78	44.76	-89.65	-1,774.56	325.21	29.89	-50.95	60.84	0.370 Level 1, CC, ES, SF		
8,500.00	7,806.99	8,091.98	7,788.10	42.60	44.76	-90.20	-1,774.56	325.21	69.03	-7.56	76.59	0.901 Level 1		
8,600.00	7,806.99	8,092.44	7,788.57	43.95	44.76	-91.09	-1,774.56	325.21	164.95	94.36	70.59	2.337		
8,700.00	7,806.99	8,092.91	7,789.03	45.33	44.76	-91.99	-1,774.56	325.21	263.92	194.82	69.09	3.820		
8,800.00	7,806.99	8,093.38	7,789.50	46.74	44.76	-92.89	-1,774.56	325.22	363.45	295.00	68.45	5.309		

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-20-3N
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-20-3N	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		
8,900.00	7,806.98	8,093.85	7,789.97	48.17	44.76	-93.78	-1,774.57	325.22	463.18	395.08	68.11	6.801		
9,000.00	7,806.98	8,094.32	7,790.45	49.62	44.77	-94.69	-1,774.57	325.22	563.01	495.11	67.90	8.292		
9,100.00	7,806.98	8,094.80	7,790.92	51.09	44.77	-95.59	-1,774.57	325.23	662.89	595.13	67.76	9.783		
9,200.00	7,806.98	8,095.27	7,791.40	52.59	44.77	-96.49	-1,774.57	325.23	762.80	695.13	67.67	11.273		
9,300.00	7,806.97	8,095.75	7,791.88	54.09	44.77	-97.40	-1,774.57	325.23	862.73	795.13	67.60	12.762		
9,400.00	7,806.97	8,096.23	7,792.36	55.62	44.77	-98.30	-1,774.58	325.23	962.68	895.12	67.56	14.249		
9,500.00	7,806.97	8,096.72	7,792.84	57.16	44.77	-99.20	-1,774.58	325.24	1,062.63	995.10	67.53	15.735		
9,600.00	7,806.97	8,097.20	7,793.33	58.71	44.77	-100.11	-1,774.58	325.24	1,162.59	1,095.08	67.51	17.220		
9,700.00	7,806.96	8,097.69	7,793.82	60.27	44.77	-101.01	-1,774.58	325.24	1,262.56	1,195.06	67.50	18.703		
9,800.00	7,806.96	8,098.18	7,794.31	61.84	44.77	-101.91	-1,774.59	325.25	1,362.54	1,295.03	67.50	20.185		
9,900.00	7,806.96	8,098.67	7,794.80	63.43	44.77	-102.81	-1,774.59	325.25	1,462.51	1,395.01	67.51	21.665		
10,000.00	7,806.96	8,099.17	7,795.29	65.02	44.77	-103.70	-1,774.59	325.25	1,562.49	1,494.98	67.51	23.143		
10,100.00	7,806.95	8,099.67	7,795.79	66.63	44.78	-104.60	-1,774.59	325.26	1,662.47	1,594.95	67.53	24.620		
10,200.00	7,806.95	8,100.17	7,796.29	68.24	44.78	-105.49	-1,774.60	325.26	1,762.46	1,694.92	67.54	26.095		
10,300.00	7,806.95	8,100.67	7,796.79	69.86	44.78	-106.37	-1,774.60	325.26	1,862.44	1,794.88	67.56	27.567		
10,400.00	7,806.95	8,101.17	7,797.30	71.49	44.78	-107.25	-1,774.60	325.27	1,962.43	1,894.85	67.58	29.038		
10,500.00	7,806.94	8,101.68	7,797.80	73.12	44.78	-108.13	-1,774.60	325.27	2,062.42	1,994.81	67.60	30.507		
10,600.00	7,806.94	8,102.18	7,798.31	74.76	44.78	-109.00	-1,774.61	325.27	2,162.41	2,094.78	67.63	31.974		
10,700.00	7,806.94	8,102.70	7,798.82	76.41	44.78	-109.87	-1,774.61	325.28	2,262.40	2,194.74	67.66	33.439		
10,800.00	7,806.94	8,103.21	7,799.33	78.06	44.78	-110.73	-1,774.61	325.28	2,362.39	2,294.70	67.69	34.902		
10,900.00	7,806.93	8,103.72	7,799.85	79.72	44.78	-111.58	-1,774.61	325.28	2,462.38	2,394.66	67.72	36.362		
11,000.00	7,806.93	8,104.24	7,800.37	81.38	44.79	-112.43	-1,774.62	325.29	2,562.37	2,494.62	67.75	37.820		
11,100.00	7,806.93	8,104.76	7,800.89	83.05	44.79	-113.27	-1,774.62	325.29	2,662.36	2,594.57	67.79	39.276		
11,200.00	7,806.93	8,105.28	7,801.41	84.72	44.79	-114.11	-1,774.62	325.29	2,762.35	2,694.53	67.82	40.729		
11,300.00	7,806.92	8,105.81	7,801.93	86.39	44.79	-114.93	-1,774.62	325.30	2,862.35	2,794.49	67.86	42.181		
11,400.00	7,806.92	8,106.34	7,802.46	88.07	44.79	-115.75	-1,774.63	325.30	2,962.34	2,894.44	67.90	43.629		
11,500.00	7,806.92	8,106.87	7,802.99	89.75	44.79	-116.57	-1,774.63	325.30	3,062.33	2,994.40	67.94	45.075		
11,600.00	7,806.92	8,107.40	7,803.52	91.44	44.79	-117.37	-1,774.63	325.31	3,162.33	3,094.35	67.98	46.519		
11,700.00	7,806.91	8,107.93	7,804.06	93.13	44.79	-118.17	-1,774.63	325.31	3,262.32	3,194.30	68.02	47.960		
11,800.00	7,806.91	8,108.47	7,804.59	94.82	44.79	-118.96	-1,774.64	325.32	3,362.32	3,294.25	68.07	49.398		
11,900.00	7,806.91	8,109.01	7,805.13	96.52	44.79	-119.74	-1,774.64	325.32	3,462.31	3,394.20	68.11	50.834		
12,000.00	7,806.91	8,109.55	7,805.68	98.21	44.80	-120.51	-1,774.64	325.32	3,562.31	3,494.15	68.16	52.267		
12,100.00	7,806.90	8,110.10	7,806.22	99.91	44.80	-121.27	-1,774.64	325.33	3,662.30	3,594.10	68.20	53.697		
12,200.00	7,806.90	8,110.64	7,806.77	101.62	44.80	-122.03	-1,774.65	325.33	3,762.30	3,694.05	68.25	55.125		
12,300.00	7,806.90	8,111.19	7,807.32	103.32	44.80	-122.77	-1,774.65	325.33	3,862.29	3,793.99	68.30	56.549		
12,400.00	7,806.90	8,111.75	7,807.87	105.03	44.80	-123.51	-1,774.65	325.34	3,962.29	3,893.94	68.35	57.971		
12,500.00	7,806.89	8,112.30	7,808.43	106.74	44.80	-124.23	-1,774.66	325.34	4,062.29	3,993.89	68.40	59.390		
12,600.00	7,806.89	8,112.86	7,808.98	108.45	44.80	-124.95	-1,774.66	325.35	4,162.28	4,093.83	68.45	60.806		
12,700.00	7,806.89	8,113.42	7,809.54	110.17	44.80	-125.66	-1,774.66	325.35	4,262.28	4,193.77	68.50	62.219		
12,800.00	7,806.89	8,113.98	7,810.11	111.88	44.80	-126.36	-1,774.66	325.35	4,362.27	4,293.72	68.56	63.629		
12,900.00	7,806.88	8,114.55	7,810.67	113.60	44.81	-127.05	-1,774.67	325.36	4,462.27	4,393.66	68.61	65.035		
13,000.00	7,806.88	8,115.12	7,811.24	115.32	44.81	-127.73	-1,774.67	325.36	4,562.27	4,493.60	68.67	66.439		
13,100.00	7,806.88	8,115.69	7,811.81	117.04	44.81	-128.40	-1,774.67	325.37	4,662.26	4,593.54	68.73	67.839		
13,200.00	7,806.88	8,116.26	7,812.39	118.76	44.81	-129.07	-1,774.68	325.37	4,762.26	4,693.48	68.78	69.237		
13,300.00	7,806.87	8,116.84	7,812.96	120.48	44.81	-129.72	-1,774.68	325.37	4,862.26	4,793.42	68.84	70.631		
13,400.00	7,806.87	8,117.42	7,813.54	122.21	44.81	-130.36	-1,774.68	325.38	4,962.25	4,893.35	68.90	72.022		
13,500.00	7,806.87	8,118.00	7,814.13	123.94	44.81	-131.00	-1,774.68	325.38	5,062.25	4,993.29	68.96	73.409		
13,600.00	7,806.87	8,118.59	7,814.71	125.66	44.81	-131.62	-1,774.69	325.39	5,162.25	5,093.23	69.02	74.793		
13,700.00	7,806.86	8,119.18	7,815.30	127.39	44.82	-132.24	-1,774.69	325.39	5,262.24	5,193.16	69.08	76.174		
13,800.00	7,806.86	8,119.77	7,815.89	129.12	44.82	-132.85	-1,774.69	325.40	5,362.24	5,293.10	69.14	77.552		
13,900.00	7,806.86	8,120.36	7,816.49	130.85	44.82	-133.44	-1,774.70	325.40	5,462.24	5,393.03	69.21	78.926		
14,000.00	7,806.86	8,120.96	7,817.08	132.59	44.82	-134.03	-1,774.70	325.40	5,562.24	5,492.96	69.27	80.297		

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-20-3N
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-20-3N	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		
14,100.00	7,806.85	8,121.56	7,817.68	134.32	44.82	-134.61	-1,774.70	325.41	5,662.23	5,592.90	69.34	81.664		
14,200.00	7,806.85	8,122.16	7,818.29	136.06	44.82	-135.19	-1,774.71	325.41	5,762.23	5,692.83	69.40	83.028		
14,300.00	7,806.85	8,122.77	7,818.89	137.79	44.82	-135.75	-1,774.71	325.42	5,862.23	5,792.76	69.47	84.388		
14,400.00	7,806.85	8,123.38	7,819.50	139.53	44.82	-136.30	-1,774.71	325.42	5,962.22	5,892.69	69.53	85.744		
14,500.00	7,806.84	8,123.99	7,820.11	141.27	44.83	-136.85	-1,774.72	325.43	6,062.22	5,992.62	69.60	87.098		
14,600.00	7,806.84	8,124.60	7,820.73	143.00	44.83	-137.39	-1,774.72	325.43	6,162.22	6,092.55	69.67	88.447		
14,700.00	7,806.84	8,125.22	7,821.35	144.74	44.83	-137.92	-1,774.72	325.44	6,262.22	6,192.48	69.74	89.793		
14,800.00	7,806.84	8,125.84	7,821.97	146.48	44.83	-138.44	-1,774.73	325.44	6,362.21	6,292.40	69.81	91.135		
14,900.00	7,806.83	8,126.47	7,822.59	148.22	44.83	-138.95	-1,774.73	325.45	6,462.21	6,392.33	69.88	92.474		
15,000.00	7,806.83	8,127.10	7,823.22	149.97	44.83	-139.45	-1,774.73	325.45	6,562.21	6,492.26	69.95	93.809		
15,100.00	7,806.83	8,127.73	7,823.85	151.71	44.83	-139.95	-1,774.74	325.46	6,662.21	6,592.18	70.03	95.140		
15,200.00	7,806.83	8,128.36	7,824.49	153.45	44.83	-140.44	-1,774.74	325.46	6,762.20	6,692.11	70.10	96.467		
15,300.00	7,806.82	8,129.00	7,825.12	155.19	44.84	-140.92	-1,774.74	325.47	6,862.20	6,792.03	70.17	97.791		
15,400.00	7,806.82	8,129.64	7,825.76	156.94	44.84	-141.40	-1,774.75	325.47	6,962.20	6,891.95	70.25	99.111		
15,500.00	7,806.82	8,130.28	7,826.41	158.68	44.84	-141.86	-1,774.75	325.48	7,062.20	6,991.88	70.32	100.427		
15,600.00	7,806.82	8,130.93	7,827.05	160.43	44.84	-142.32	-1,774.75	325.48	7,162.19	7,091.80	70.40	101.740		
15,700.00	7,806.81	8,131.58	7,827.70	162.18	44.84	-142.78	-1,774.76	325.49	7,262.19	7,191.72	70.47	103.048		
15,800.00	7,806.81	8,132.24	7,828.36	163.92	44.84	-143.22	-1,774.76	325.49	7,362.19	7,291.64	70.55	104.353		
15,900.00	7,806.81	8,132.89	7,829.02	165.67	44.84	-143.66	-1,774.76	325.50	7,462.19	7,391.56	70.63	105.654		
16,000.00	7,806.81	8,133.55	7,829.68	167.42	44.84	-144.09	-1,774.77	325.50	7,562.19	7,491.48	70.71	106.950		
16,100.00	7,806.80	8,134.22	7,830.34	169.17	44.85	-144.51	-1,774.77	325.51	7,662.18	7,591.40	70.79	108.244		
16,200.00	7,806.80	8,134.88	7,831.01	170.91	44.85	-144.93	-1,774.78	325.51	7,762.18	7,691.31	70.87	109.533		
16,300.00	7,806.80	8,135.56	7,831.68	172.66	44.85	-145.34	-1,774.78	325.52	7,862.18	7,791.23	70.95	110.818		
16,400.00	7,806.80	8,136.23	7,832.35	174.41	44.85	-145.75	-1,774.78	325.52	7,962.18	7,891.15	71.03	112.099		
16,500.00	7,806.79	8,136.91	7,833.03	176.16	44.85	-146.15	-1,774.79	325.53	8,062.17	7,991.06	71.11	113.376		
16,600.00	7,806.79	8,137.59	7,833.71	177.92	44.85	-146.54	-1,774.79	325.54	8,162.17	8,090.98	71.19	114.650		
16,700.00	7,806.79	8,138.28	7,834.40	179.67	44.85	-146.92	-1,774.79	325.54	8,262.17	8,190.89	71.28	115.919		
16,800.00	7,806.79	8,138.96	7,835.09	181.42	44.86	-147.30	-1,774.80	325.55	8,362.17	8,290.81	71.36	117.185		
16,900.00	7,806.78	8,139.66	7,835.78	183.17	44.86	-147.68	-1,774.80	325.55	8,462.17	8,390.72	71.44	118.446		
17,000.00	7,806.78	8,140.35	7,836.48	184.92	44.86	-148.05	-1,774.81	325.56	8,562.16	8,490.63	71.53	119.703		
17,100.00	7,806.78	8,141.05	7,837.18	186.68	44.86	-148.41	-1,774.81	325.56	8,662.16	8,590.55	71.61	120.957		
17,200.00	7,806.78	8,141.76	7,837.88	188.43	44.86	-148.77	-1,774.81	325.57	8,762.16	8,690.46	71.70	122.206		
17,300.00	7,806.77	8,142.47	7,838.59	190.18	44.86	-149.12	-1,774.82	325.58	8,862.16	8,790.37	71.79	123.451		
17,400.00	7,806.77	8,143.18	7,839.30	191.94	44.86	-149.46	-1,774.82	325.58	8,962.15	8,890.28	71.87	124.693		
17,500.00	7,806.77	8,143.89	7,840.02	193.69	44.87	-149.81	-1,774.83	325.59	9,062.15	8,990.19	71.96	125.930		
17,600.00	7,806.77	8,144.61	7,840.73	195.45	44.87	-150.14	-1,774.83	325.59	9,162.15	9,090.10	72.05	127.163		
17,700.00	7,806.76	8,145.33	7,841.46	197.20	44.87	-150.47	-1,774.83	325.60	9,262.15	9,190.01	72.14	128.392		
17,800.00	7,806.76	8,146.06	7,842.18	198.96	44.87	-150.80	-1,774.84	325.61	9,362.15	9,289.92	72.23	129.617		
17,877.44	7,807.00	8,146.93	7,843.05	200.32	44.87	-151.13	-1,774.84	325.61	9,439.59	9,367.29	72.30	130.562		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	152.70	-3,285.82	1,696.17	3,697.79					
100.00	100.00	80.00	80.00	0.13	0.14	152.70	-3,285.82	1,696.17	3,697.79	3,697.51	0.28	N/A		
200.00	200.00	180.00	180.00	0.49	0.32	152.70	-3,285.82	1,696.17	3,697.79	3,696.98	0.81	4,558.296		
300.00	300.00	280.00	280.00	0.85	0.50	152.70	-3,285.82	1,696.17	3,697.79	3,696.44	1.35	2,746.142		
400.00	400.00	380.00	380.00	1.21	0.67	152.70	-3,285.82	1,696.17	3,697.79	3,695.91	1.88	1,964.968		
500.00	500.00	480.00	480.00	1.57	0.85	152.70	-3,285.82	1,696.17	3,697.79	3,695.37	2.42	1,529.798		
600.00	600.00	580.00	580.00	1.93	1.03	152.70	-3,285.82	1,696.17	3,697.79	3,694.83	2.95	1,252.429		
700.00	700.00	680.00	680.00	2.29	1.20	152.70	-3,285.82	1,696.17	3,697.79	3,694.30	3.49	1,060.203		
800.00	800.00	780.00	780.00	2.64	1.38	152.70	-3,285.82	1,696.17	3,697.79	3,693.76	4.02	919.133		
900.00	900.00	880.00	880.00	3.00	1.56	152.70	-3,285.82	1,696.17	3,697.79	3,693.23	4.56	811.195		
1,000.00	1,000.00	980.00	980.00	3.36	1.73	152.70	-3,285.82	1,696.17	3,697.79	3,692.69	5.09	725.944		
1,100.00	1,100.00	1,080.00	1,080.00	3.72	1.91	152.70	-3,285.82	1,696.17	3,697.79	3,692.16	5.63	656.908		
1,200.00	1,200.00	1,180.00	1,180.00	4.08	2.09	152.70	-3,285.82	1,696.17	3,697.79	3,691.62	6.16	599.862		
1,300.00	1,300.00	1,280.00	1,280.00	4.44	2.26	152.70	-3,285.82	1,696.17	3,697.79	3,691.09	6.70	551.932		
1,400.00	1,400.00	1,283.81	1,283.80	4.79	2.43	152.71	-3,287.05	1,696.17	3,700.13	3,692.91	7.22	512.684		
1,500.00	1,499.98	1,330.35	1,330.31	5.14	2.59	-11.04	-3,288.79	1,696.17	3,701.74	3,694.01	7.72	479.323		
1,600.00	1,599.84	1,376.88	1,376.77	5.46	2.76	-11.03	-3,291.28	1,696.17	3,701.36	3,693.15	8.21	450.692		
1,700.00	1,699.45	1,450.00	1,449.68	5.80	3.03	-11.02	-3,296.73	1,696.17	3,699.22	3,690.41	8.80	420.263		
1,800.00	1,798.70	1,487.61	1,487.14	6.14	3.19	-11.02	-3,300.14	1,695.96	3,694.57	3,685.29	9.28	398.072		
1,900.00	1,897.47	1,575.21	1,574.25	6.49	3.56	-11.00	-3,309.12	1,693.90	3,687.23	3,677.25	9.98	369.597		
1,969.08	1,965.35	1,635.48	1,634.05	6.75	3.83	-10.97	-3,316.14	1,691.19	3,680.35	3,669.89	10.46	351.789		
2,000.00	1,995.66	1,662.38	1,660.69	6.86	3.94	-10.94	-3,319.50	1,689.64	3,676.96	3,666.28	10.68	344.273		
2,100.00	2,093.69	1,749.16	1,746.42	7.25	4.33	-10.82	-3,331.24	1,683.22	3,666.23	3,654.84	11.39	321.882		
2,200.00	2,191.72	1,835.44	1,831.29	7.65	4.72	-10.66	-3,344.30	1,674.69	3,655.86	3,643.75	12.11	301.975		
2,300.00	2,289.76	1,921.10	1,915.07	8.07	5.11	-10.45	-3,358.61	1,664.10	3,645.87	3,633.05	12.83	284.231		
2,400.00	2,387.79	2,033.04	1,959.70	8.49	5.12	-10.64	-3,355.80	1,674.28	3,634.24	3,617.20	17.04	213.258		
2,500.00	2,485.82	2,537.67	2,049.31	8.91	8.47	-10.20	-3,378.86	1,651.22	3,626.10	3,609.34	16.76	216.343		
2,600.00	2,583.86	2,442.31	2,138.93	9.35	7.82	-9.76	-3,401.93	1,628.15	3,618.18	3,601.69	16.49	219.452		
2,700.00	2,681.89	2,346.94	2,228.55	9.79	7.18	-9.32	-3,425.00	1,605.09	3,610.50	3,594.28	16.22	222.577		
2,800.00	2,779.92	2,342.43	2,318.17	10.24	7.15	-8.88	-3,448.06	1,582.03	3,603.05	3,586.50	16.55	217.726		
2,900.00	2,877.96	2,437.80	2,407.78	10.69	7.79	-8.43	-3,471.13	1,558.97	3,595.84	3,578.32	17.52	205.200		
3,000.00	2,975.99	2,533.17	2,497.40	11.14	8.44	-7.98	-3,494.19	1,535.90	3,588.87	3,570.37	18.50	193.984		
3,100.00	3,074.02	2,628.54	2,587.02	11.60	9.09	-7.53	-3,517.26	1,512.84	3,582.13	3,562.66	19.48	183.895		
3,200.00	3,172.06	2,723.91	2,676.64	12.06	9.75	-7.08	-3,540.33	1,489.78	3,575.64	3,555.18	20.46	174.780		
3,300.00	3,270.09	2,819.28	2,766.25	12.52	10.41	-6.63	-3,563.39	1,466.71	3,569.39	3,547.95	21.44	166.511		
3,400.00	3,368.12	2,914.65	2,855.87	12.98	11.07	-6.18	-3,586.46	1,443.65	3,563.38	3,540.97	22.41	158.980		
3,500.00	3,466.16	3,010.02	2,945.49	13.45	11.73	-5.72	-3,609.53	1,420.59	3,557.62	3,534.22	23.39	152.097		
3,600.00	3,564.19	3,105.38	3,035.11	13.92	12.39	-5.27	-3,632.59	1,397.53	3,552.10	3,527.73	24.37	145.786		
3,700.00	3,662.23	3,200.75	3,124.72	14.39	13.05	-4.81	-3,655.66	1,374.46	3,546.82	3,521.48	25.34	139.980		
3,800.00	3,760.26	3,296.12	3,214.34	14.86	13.72	-4.35	-3,678.72	1,351.40	3,541.80	3,515.49	26.31	134.624		
3,900.00	3,858.29	3,391.49	3,303.96	15.34	14.39	-3.89	-3,701.79	1,328.34	3,537.02	3,509.74	27.28	129.670		
4,000.00	3,956.33	3,486.86	3,393.58	15.81	15.05	-3.43	-3,724.86	1,305.27	3,532.49	3,504.25	28.24	125.076		
4,100.00	4,054.36	3,582.23	3,483.19	16.29	15.72	-2.97	-3,747.92	1,282.21	3,528.22	3,499.01	29.21	120.805		
4,200.00	4,152.39	3,677.60	3,572.81	16.77	16.39	-2.51	-3,770.99	1,259.15	3,524.19	3,494.03	30.17	116.827		
4,300.00	4,250.43	3,772.97	3,662.43	17.25	17.06	-2.05	-3,794.05	1,236.08	3,520.42	3,489.30	31.12	113.113		
4,400.00	4,348.46	3,868.34	3,752.05	17.73	17.73	-1.58	-3,817.12	1,213.02	3,516.90	3,484.82	32.08	109.640		
4,500.00	4,446.49	3,963.70	3,841.66	18.21	18.40	-1.12	-3,840.19	1,189.96	3,513.63	3,480.61	33.03	106.385		
4,600.00	4,544.53	4,059.07	3,931.28	18.69	19.07	-0.65	-3,863.25	1,166.90	3,510.62	3,476.65	33.97	103.330		
4,700.00	4,642.56	4,154.44	4,020.90	19.17	19.74	-0.18	-3,886.32	1,143.83	3,507.87	3,472.95	34.92	100.458		
4,800.00	4,740.59	4,249.81	4,110.52	19.65	20.41	0.28	-3,909.38	1,120.77	3,505.37	3,469.51	35.86	97.754		
4,900.00	4,838.63	4,345.18	4,200.13	20.13	21.08	0.75	-3,932.45	1,097.71	3,503.13	3,466.33	36.80	95.204		
5,000.00	4,936.66	4,440.55	4,289.75	20.62	21.75	1.22	-3,955.52	1,074.64	3,501.14	3,463.41	37.73	92.796		

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-20-3N
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-20-3N	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 33-33DX - Wellbore #1 - Wellbore #1		Offset Site Error:		0.00 usft
Survey Program: 1200-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	5,034.69	4,535.92	4,379.37	21.10	22.42	1.69	-3,978.58	1,051.58	3,499.41	3,460.75	38.66	90.520					
5,200.00	5,132.73	4,631.29	4,468.99	21.59	23.09	2.16	-4,001.65	1,028.52	3,497.94	3,458.36	39.58	88.366					
5,300.00	5,230.76	4,726.66	4,558.60	22.07	23.76	2.63	-4,024.71	1,005.46	3,496.73	3,456.22	40.51	86.324					
5,400.00	5,328.79	4,822.03	4,648.22	22.56	24.43	3.10	-4,047.78	982.39	3,495.78	3,454.35	41.43	84.387					
5,500.00	5,426.83	4,917.39	4,737.84	23.04	25.11	3.57	-4,070.85	959.33	3,495.08	3,452.74	42.34	82.548					
5,600.00	5,524.86	5,012.76	4,827.46	23.53	25.78	4.04	-4,093.91	936.27	3,494.64	3,451.39	43.25	80.799					
5,700.00	5,622.89	5,108.13	4,917.07	24.02	26.45	4.51	-4,116.98	913.20	3,494.47	3,450.31	44.16	79.136					
5,718.67	5,641.19	5,125.93	4,933.80	24.11	26.58	4.60	-4,121.28	908.90	3,494.46	3,450.13	44.33	78.834					
5,800.00	5,720.93	5,203.50	5,006.69	24.50	27.12	4.98	-4,140.04	890.14	3,494.55	3,449.49	45.06	77.552					
5,900.00	5,818.96	5,298.87	5,096.31	24.99	27.80	5.45	-4,163.11	867.08	3,494.89	3,448.93	45.96	76.042					
6,000.00	5,916.99	5,394.24	5,185.93	25.48	28.47	5.92	-4,186.18	844.02	3,495.49	3,448.63	46.86	74.601					
6,100.00	6,015.03	5,489.61	5,275.54	25.97	29.14	6.39	-4,209.24	820.95	3,496.34	3,448.60	47.75	73.226					
6,200.00	6,113.06	5,584.98	5,365.16	26.45	29.81	6.86	-4,232.31	797.89	3,497.46	3,448.82	48.64	71.912					
6,300.00	6,211.09	5,680.35	5,454.78	26.94	30.49	7.33	-4,255.37	774.83	3,498.83	3,449.31	49.52	70.656					
6,400.00	6,309.13	5,775.72	5,544.40	27.43	31.16	7.80	-4,278.44	751.76	3,500.47	3,450.07	50.40	69.455					
6,500.00	6,407.16	5,908.58	5,669.53	27.92	31.85	8.44	-4,310.02	720.19	3,502.03	3,450.69	51.34	68.214					
6,600.00	6,505.19	6,065.10	5,818.18	28.41	32.55	9.15	-4,344.67	685.55	3,502.31	3,449.99	52.32	66.938					
6,664.73	6,568.65	6,167.41	5,916.04	28.73	33.01	9.59	-4,365.76	664.46	3,501.71	3,448.75	52.96	66.119					
6,700.00	6,603.27	6,223.47	5,969.89	28.90	33.26	9.81	-4,376.79	653.43	3,501.33	3,448.02	53.31	65.680					
6,740.13	6,642.76	6,287.55	6,031.62	29.08	33.55	10.07	-4,388.94	641.28	3,501.18	3,447.47	53.70	65.194					
6,800.00	6,701.84	6,383.72	6,124.62	29.36	33.99	10.42	-4,406.26	623.96	3,501.51	3,447.21	54.30	64.490					
6,900.00	6,800.94	6,545.75	6,282.19	29.78	34.72	10.97	-4,432.93	597.29	3,503.48	3,448.20	55.28	63.379					
7,000.00	6,900.45	6,709.37	6,442.33	30.17	35.45	11.46	-4,456.66	573.57	3,507.17	3,450.92	56.25	62.346					
7,100.00	7,000.24	6,874.37	6,604.72	30.53	36.20	11.88	-4,477.31	552.93	3,512.51	3,455.29	57.22	61.388					
7,200.00	7,100.19	7,040.54	6,769.05	30.85	36.95	12.23	-4,494.75	535.49	3,519.43	3,461.26	58.17	60.501					
7,233.81	7,134.00	7,096.96	6,824.99	30.95	37.20	176.09	-4,499.90	530.34	3,522.12	3,463.63	58.49	60.220					
7,300.00	7,200.19	7,207.73	6,935.03	31.12	37.70	176.24	-4,508.88	521.35	3,527.13	3,468.04	59.10	59.684					
7,333.81	7,234.00	7,264.51	6,991.52	31.21	37.96	176.31	-4,512.91	517.33	3,529.37	3,469.97	59.41	59.410					
7,350.00	7,250.18	7,291.75	7,018.64	31.26	38.08	-3.31	-4,514.70	515.54	3,530.14	3,470.58	59.56	59.273					
7,400.00	7,300.04	7,376.04	7,102.64	31.44	38.46	-3.24	-4,519.65	510.58	3,529.31	3,469.28	60.03	58.790					
7,450.00	7,349.39	7,459.86	7,186.27	31.66	38.84	-3.21	-4,523.72	506.52	3,523.65	3,463.14	60.51	58.230					
7,500.00	7,397.87	7,542.32	7,268.60	31.92	39.21	-3.24	-4,526.87	503.37	3,513.22	3,452.23	60.99	57.601					
7,550.00	7,445.09	7,622.53	7,348.75	32.22	39.57	-3.31	-4,529.13	501.11	3,498.13	3,436.67	61.46	56.913					
7,600.00	7,490.72	7,699.68	7,425.87	32.55	39.92	-3.44	-4,530.56	499.68	3,478.54	3,416.61	61.92	56.175					
7,650.00	7,534.38	7,773.00	7,499.18	32.92	40.25	-3.64	-4,531.23	499.01	3,454.63	3,392.26	62.36	55.396					
7,700.00	7,575.77	7,841.79	7,567.97	33.32	40.56	-3.91	-4,531.26	498.98	3,426.65	3,363.87	62.78	54.583					
7,750.00	7,614.55	7,905.44	7,631.62	33.75	40.85	-4.28	-4,530.77	499.47	3,394.88	3,331.72	63.16	53.746					
7,800.00	7,650.43	7,963.43	7,689.60	34.22	41.11	-4.77	-4,529.89	500.35	3,359.64	3,296.12	63.52	52.892					
7,850.00	7,683.15	8,015.32	7,741.46	34.71	41.34	-5.43	-4,528.75	501.49	3,321.24	3,257.40	63.84	52.027					
7,900.00	7,712.45	8,060.78	7,786.89	35.23	41.55	-6.33	-4,527.47	502.77	3,280.06	3,215.94	64.12	51.158					
7,950.00	7,738.11	8,099.55	7,825.62	35.78	41.72	-7.61	-4,526.19	504.05	3,236.46	3,172.11	64.36	50.290					
8,000.00	7,759.93	8,131.47	7,857.49	36.35	41.87	-9.51	-4,524.99	505.25	3,190.84	3,126.28	64.56	49.428					
8,050.00	7,777.75	8,156.45	7,882.42	36.93	41.98	-12.60	-4,523.96	506.28	3,143.58	3,078.86	64.71	48.577					
8,100.00	7,791.43	8,174.47	7,900.41	37.53	42.06	-18.35	-4,523.17	507.07	3,095.08	3,030.25	64.83	47.742					
8,150.00	7,800.87	8,185.58	7,911.50	38.14	42.11	-31.99	-4,522.67	507.57	3,045.74	2,980.83	64.91	46.924					
8,200.00	7,806.00	8,189.89	7,915.80	38.76	42.13	-76.55	-4,522.47	507.77	2,995.95	2,931.00	64.95	46.129					
8,233.89	7,807.00	8,189.02	7,914.93	39.18	42.13	-123.14	-4,522.51	507.73	2,962.14	2,897.18	64.96	45.603					
8,300.00	7,807.00	8,184.44	7,910.36	40.00	42.11	-122.22	-4,522.72	507.52	2,896.24	2,831.29	64.96	44.588					
8,400.00	7,807.00	8,177.72	7,903.66	41.29	42.08	-120.83	-4,523.03	507.21	2,796.57	2,731.61	64.96	43.051					
8,500.00	7,806.99	8,171.24	7,897.19	42.60	42.05	-119.45	-4,523.32	506.92	2,696.91	2,631.94	64.97	41.512					
8,600.00	7,806.99	8,164.98	7,890.94	43.95	42.02	-118.08	-4,523.59	506.65	2,597.26	2,532.28	64.98	39.971					
8,700.00	7,806.99	8,158.94	7,884.91	45.33	41.99	-116.71	-4,523.85	506.38	2,497.63	2,432.63	65.00	38.427					

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-20-3N
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-20-3N	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		
8,800.00	7,806.99	8,153.10	7,879.08	46.74	41.97	-115.35	-4,524.10	506.14	2,398.02	2,333.00	65.02	36.881		
8,900.00	7,806.98	8,147.45	7,873.44	48.17	41.94	-114.01	-4,524.34	505.90	2,298.44	2,233.39	65.05	35.333		
9,000.00	7,806.98	8,141.98	7,867.98	49.62	41.92	-112.67	-4,524.56	505.67	2,198.88	2,133.79	65.09	33.783		
9,100.00	7,806.98	8,136.69	7,862.70	51.09	41.89	-111.35	-4,524.78	505.46	2,099.36	2,034.22	65.14	32.231		
9,200.00	7,806.98	8,131.56	7,857.58	52.59	41.87	-110.05	-4,524.98	505.26	1,999.87	1,934.68	65.19	30.677		
9,300.00	7,806.97	8,126.60	7,852.62	54.09	41.85	-108.76	-4,525.18	505.06	1,900.42	1,835.16	65.26	29.121		
9,400.00	7,806.97	8,121.78	7,847.81	55.62	41.82	-107.49	-4,525.36	504.87	1,801.03	1,735.69	65.34	27.562		
9,500.00	7,806.97	8,117.11	7,843.15	57.16	41.80	-106.24	-4,525.54	504.70	1,701.70	1,636.25	65.45	26.001		
9,600.00	7,806.97	8,112.58	7,838.62	58.71	41.78	-105.01	-4,525.71	504.53	1,602.44	1,536.86	65.57	24.438		
9,700.00	7,806.96	8,108.17	7,834.23	60.27	41.76	-103.79	-4,525.87	504.36	1,503.26	1,437.54	65.73	22.872		
9,800.00	7,806.96	8,103.90	7,829.96	61.84	41.74	-102.60	-4,526.03	504.21	1,404.19	1,338.28	65.92	21.302		
9,900.00	7,806.96	8,099.75	7,825.81	63.43	41.72	-101.43	-4,526.18	504.06	1,305.25	1,239.10	66.16	19.729		
10,000.00	7,806.96	8,095.71	7,821.78	65.02	41.71	-100.28	-4,526.32	503.92	1,206.48	1,140.01	66.46	18.152		
10,100.00	7,806.95	8,091.78	7,817.85	66.63	41.69	-99.15	-4,526.46	503.78	1,107.91	1,041.05	66.86	16.570		
10,200.00	7,806.95	8,087.96	7,814.04	68.24	41.67	-98.04	-4,526.59	503.65	1,009.61	942.23	67.39	14.983		
10,300.00	7,806.95	8,084.25	7,810.33	69.86	41.65	-96.95	-4,526.72	503.52	911.67	843.58	68.09	13.389		
10,400.00	7,806.95	8,080.63	7,806.71	71.49	41.64	-95.89	-4,526.84	503.40	814.21	745.15	69.06	11.789		
10,500.00	7,806.94	8,077.10	7,803.19	73.12	41.62	-94.85	-4,526.95	503.29	717.44	646.99	70.44	10.184		
10,600.00	7,806.94	8,073.67	7,799.76	74.76	41.61	-93.83	-4,527.07	503.17	621.66	549.20	72.46	8.579		
10,700.00	7,806.94	8,060.75	7,786.94	76.41	41.00	-90.00	-4,531.32	498.92	529.71	455.03	74.68	7.093		
10,800.00	7,806.94	8,060.75	7,786.94	78.06	41.00	-90.00	-4,531.32	498.92	437.60	358.37	79.23	5.523		
10,900.00	7,806.93	8,060.75	7,786.93	79.72	41.00	-90.00	-4,531.32	498.92	349.84	263.29	86.55	4.042		
11,000.00	7,806.93	8,060.75	7,786.93	81.38	41.00	-90.00	-4,531.32	498.92	270.70	172.56	98.14	2.758		
11,100.00	7,806.93	8,060.74	7,786.93	83.05	41.00	-90.00	-4,531.32	498.92	210.18	96.97	113.21	1.857		
11,195.53	7,806.93	8,060.74	7,786.93	84.64	41.00	-90.00	-4,531.32	498.92	187.21	67.31	119.91	1.561	CC, ES, SF	
11,200.00	7,806.93	8,060.74	7,786.93	84.72	41.00	-90.00	-4,531.32	498.92	187.27	67.51	119.76	1.564		
11,300.00	7,806.92	8,060.74	7,786.92	86.39	41.00	-90.00	-4,531.32	498.92	214.39	106.27	108.12	1.983		
11,400.00	7,806.92	8,060.74	7,786.92	88.07	41.00	-90.00	-4,531.32	498.92	277.23	182.94	94.30	2.940		
11,500.00	7,806.92	8,060.73	7,786.92	89.75	41.00	-90.00	-4,531.32	498.92	357.42	272.12	85.31	4.190		
11,600.00	7,806.92	8,060.73	7,786.92	91.44	41.00	-90.00	-4,531.32	498.92	445.70	365.88	79.81	5.584		
11,700.00	7,806.91	8,060.73	7,786.91	93.13	41.00	-90.00	-4,531.32	498.92	538.09	461.76	76.34	7.049		
11,800.00	7,806.91	8,060.73	7,786.91	94.82	41.00	-90.00	-4,531.32	498.92	632.80	558.77	74.03	8.548		
11,900.00	7,806.91	8,060.72	7,786.91	96.52	41.00	-89.99	-4,531.32	498.92	728.92	656.49	72.43	10.063		
12,000.00	7,806.91	8,060.72	7,786.91	98.21	41.00	-89.99	-4,531.32	498.92	825.97	754.68	71.29	11.586		
12,100.00	7,806.90	8,060.72	7,786.90	99.91	41.00	-89.99	-4,531.32	498.92	923.64	853.19	70.45	13.110		
12,200.00	7,806.90	8,060.72	7,786.90	101.62	41.00	-89.99	-4,531.32	498.92	1,021.77	951.95	69.82	14.634		
12,300.00	7,806.90	8,060.71	7,786.90	103.32	41.00	-89.99	-4,531.32	498.92	1,120.23	1,050.89	69.34	16.156		
12,400.00	7,806.90	8,060.71	7,786.90	105.03	41.00	-89.99	-4,531.32	498.92	1,218.94	1,149.97	68.96	17.675		
12,500.00	7,806.89	8,060.71	7,786.89	106.74	41.00	-89.99	-4,531.32	498.92	1,317.84	1,249.17	68.67	19.191		
12,600.00	7,806.89	8,060.71	7,786.89	108.45	41.00	-89.99	-4,531.32	498.92	1,416.90	1,348.46	68.44	20.704		
12,700.00	7,806.89	8,060.70	7,786.89	110.17	41.00	-89.99	-4,531.32	498.92	1,516.08	1,447.83	68.25	22.214		
12,800.00	7,806.89	8,060.70	7,786.89	111.88	41.00	-89.99	-4,531.32	498.92	1,615.36	1,547.26	68.10	23.720		
12,900.00	7,806.88	8,060.70	7,786.88	113.60	41.00	-89.99	-4,531.32	498.92	1,714.72	1,646.74	67.98	25.223		
13,000.00	7,806.88	8,060.70	7,786.88	115.32	41.00	-89.99	-4,531.32	498.92	1,814.16	1,746.27	67.89	26.722		
13,100.00	7,806.88	8,060.69	7,786.88	117.04	41.00	-89.99	-4,531.32	498.92	1,913.65	1,845.84	67.82	28.218		
13,200.00	7,806.88	8,060.69	7,786.88	118.76	41.00	-89.98	-4,531.32	498.92	2,013.20	1,945.44	67.76	29.711		
13,300.00	7,806.87	8,060.69	7,786.87	120.48	41.00	-89.98	-4,531.32	498.92	2,112.78	2,045.07	67.72	31.200		
13,400.00	7,806.87	8,060.69	7,786.87	122.21	41.00	-89.98	-4,531.32	498.92	2,212.41	2,144.72	67.69	32.685		
13,500.00	7,806.87	8,060.68	7,786.87	123.94	41.00	-89.98	-4,531.32	498.92	2,312.06	2,244.40	67.67	34.168		
13,600.00	7,806.87	8,060.68	7,786.87	125.66	41.00	-89.98	-4,531.32	498.92	2,411.75	2,344.09	67.66	35.647		
13,700.00	7,806.86	8,060.68	7,786.86	127.39	41.00	-89.98	-4,531.32	498.92	2,511.46	2,443.81	67.65	37.122		
13,800.00	7,806.86	8,060.68	7,786.86	129.12	41.00	-89.98	-4,531.32	498.92	2,611.19	2,543.53	67.66	38.594		

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-20-3N
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-20-3N	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		
13,900.00	7,806.86	8,060.67	7,786.86	130.85	41.00	-89.98	-4,531.32	498.92	2,710.94	2,643.28	67.67	40.063		
14,000.00	7,806.86	8,060.67	7,786.86	132.59	41.00	-89.98	-4,531.32	498.92	2,810.71	2,743.03	67.68	41.528		
14,100.00	7,806.85	8,060.67	7,786.85	134.32	41.00	-89.98	-4,531.32	498.92	2,910.50	2,842.80	67.70	42.990		
14,200.00	7,806.85	8,060.67	7,786.85	136.06	41.00	-89.98	-4,531.32	498.92	3,010.30	2,942.57	67.73	44.448		
14,300.00	7,806.85	8,060.66	7,786.85	137.79	41.00	-89.98	-4,531.32	498.92	3,110.11	3,042.36	67.75	45.903		
14,400.00	7,806.85	8,060.66	7,786.85	139.53	41.00	-89.98	-4,531.32	498.92	3,209.94	3,142.15	67.79	47.354		
14,500.00	7,806.84	8,060.66	7,786.84	141.27	41.00	-89.97	-4,531.32	498.92	3,309.77	3,241.95	67.82	48.802		
14,600.00	7,806.84	8,060.66	7,786.84	143.00	41.00	-89.97	-4,531.32	498.92	3,409.62	3,341.76	67.86	50.246		
14,700.00	7,806.84	8,060.65	7,786.84	144.74	41.00	-89.97	-4,531.32	498.92	3,509.47	3,441.57	67.90	51.687		
14,800.00	7,806.84	8,060.65	7,786.84	146.48	41.00	-89.97	-4,531.32	498.92	3,609.33	3,541.39	67.94	53.124		
14,900.00	7,806.83	8,060.65	7,786.83	148.22	41.00	-89.97	-4,531.32	498.92	3,709.20	3,641.21	67.99	54.558		
15,000.00	7,806.83	8,060.65	7,786.83	149.97	41.00	-89.97	-4,531.32	498.92	3,809.08	3,741.04	68.03	55.988		
15,100.00	7,806.83	8,060.64	7,786.83	151.71	41.00	-89.97	-4,531.32	498.92	3,908.96	3,840.87	68.08	57.414		
15,200.00	7,806.83	8,060.64	7,786.83	153.45	41.00	-89.97	-4,531.32	498.92	4,008.85	3,940.71	68.13	58.837		
15,300.00	7,806.82	8,060.64	7,786.82	155.19	41.00	-89.97	-4,531.32	498.92	4,108.74	4,040.55	68.19	60.256		
15,400.00	7,806.82	8,060.64	7,786.82	156.94	41.00	-89.97	-4,531.32	498.92	4,208.64	4,140.40	68.24	61.671		
15,500.00	7,806.82	8,060.63	7,786.82	158.68	41.00	-89.97	-4,531.32	498.92	4,308.54	4,240.24	68.30	63.083		
15,600.00	7,806.82	8,060.63	7,786.82	160.43	41.00	-89.97	-4,531.32	498.92	4,408.45	4,340.09	68.36	64.491		
15,700.00	7,806.81	8,060.63	7,786.81	162.18	41.00	-89.97	-4,531.32	498.92	4,508.36	4,439.94	68.42	65.896		
15,800.00	7,806.81	8,060.63	7,786.81	163.92	41.00	-89.96	-4,531.32	498.92	4,608.28	4,539.80	68.48	67.296		
15,900.00	7,806.81	8,060.62	7,786.81	165.67	41.00	-89.96	-4,531.32	498.92	4,708.20	4,639.66	68.54	68.693		
16,000.00	7,806.81	8,060.62	7,786.81	167.42	41.00	-89.96	-4,531.32	498.92	4,808.12	4,739.52	68.60	70.086		
16,100.00	7,806.80	8,060.62	7,786.80	169.17	41.00	-89.96	-4,531.32	498.92	4,908.04	4,839.38	68.67	71.475		
16,200.00	7,806.80	8,060.62	7,786.80	170.91	41.00	-89.96	-4,531.32	498.92	5,007.97	4,939.24	68.73	72.861		
16,300.00	7,806.80	8,060.61	7,786.80	172.66	41.00	-89.96	-4,531.32	498.92	5,107.90	5,039.10	68.80	74.242		
16,400.00	7,806.80	8,060.61	7,786.80	174.41	41.00	-89.96	-4,531.32	498.92	5,207.84	5,138.97	68.87	75.620		
16,500.00	7,806.79	8,060.61	7,786.79	176.16	41.00	-89.96	-4,531.32	498.92	5,307.78	5,238.84	68.94	76.994		
16,600.00	7,806.79	8,060.61	7,786.79	177.92	41.00	-89.96	-4,531.32	498.92	5,407.71	5,338.71	69.01	78.364		
16,700.00	7,806.79	8,060.60	7,786.79	179.67	41.00	-89.96	-4,531.32	498.92	5,507.66	5,438.58	69.08	79.730		
16,800.00	7,806.79	8,060.60	7,786.79	181.42	41.00	-89.96	-4,531.32	498.92	5,607.60	5,538.45	69.15	81.092		
16,900.00	7,806.78	8,060.60	7,786.78	183.17	41.00	-89.96	-4,531.32	498.92	5,707.54	5,638.32	69.22	82.450		
17,000.00	7,806.78	8,060.60	7,786.78	184.92	41.00	-89.96	-4,531.32	498.92	5,807.49	5,738.19	69.30	83.804		
17,100.00	7,806.78	8,060.59	7,786.78	186.68	41.00	-89.95	-4,531.32	498.92	5,907.44	5,838.07	69.37	85.154		
17,200.00	7,806.78	8,060.59	7,786.78	188.43	41.00	-89.95	-4,531.32	498.92	6,007.39	5,937.94	69.45	86.501		
17,300.00	7,806.77	8,060.59	7,786.77	190.18	41.00	-89.95	-4,531.32	498.92	6,107.34	6,037.82	69.53	87.843		
17,400.00	7,806.77	8,060.59	7,786.77	191.94	41.00	-89.95	-4,531.32	498.92	6,207.30	6,137.69	69.60	89.181		
17,500.00	7,806.77	8,060.58	7,786.77	193.69	41.00	-89.95	-4,531.32	498.92	6,307.25	6,237.57	69.68	90.516		
17,600.00	7,806.77	8,060.58	7,786.77	195.45	41.00	-89.95	-4,531.32	498.92	6,407.21	6,337.45	69.76	91.846		
17,700.00	7,806.76	8,060.58	7,786.76	197.20	41.00	-89.95	-4,531.32	498.92	6,507.17	6,437.33	69.84	93.172		
17,800.00	7,806.76	8,060.58	7,786.76	198.96	41.00	-89.95	-4,531.32	498.92	6,607.13	6,537.21	69.92	94.494		
17,877.44	7,807.00	8,060.82	7,787.00	200.32	41.00	-89.95	-4,531.32	498.92	6,684.54	6,614.55	69.98	95.515		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	146.09	-4,923.07	3,309.86	5,932.57					
100.00	100.00	40.00	40.00	0.13	0.47	146.09	-4,923.07	3,309.86	5,932.27	5,931.66	0.61	9,750.763		
200.00	200.00	140.00	140.00	0.49	2.10	146.09	-4,923.07	3,309.86	5,932.27	5,929.68	2.59	2,286.172		
300.00	300.00	240.00	240.00	0.85	4.31	146.09	-4,923.07	3,309.86	5,932.27	5,927.11	5.16	1,149.597		
400.00	400.00	340.00	340.00	1.21	6.37	146.09	-4,923.07	3,309.86	5,932.27	5,924.69	7.58	782.331		
500.00	500.00	440.00	440.00	1.57	8.41	146.09	-4,923.07	3,309.86	5,932.27	5,922.29	9.98	594.519		
600.00	600.00	540.00	540.00	1.93	10.44	146.09	-4,923.07	3,309.86	5,932.27	5,919.91	12.36	479.829		
700.00	700.00	640.00	640.00	2.29	12.46	146.09	-4,923.07	3,309.86	5,932.27	5,917.53	14.74	402.375		
800.00	800.00	740.00	740.00	2.64	14.48	146.09	-4,923.07	3,309.86	5,932.27	5,915.15	17.12	346.510		
900.00	900.00	840.00	840.00	3.00	16.49	146.09	-4,923.07	3,309.86	5,932.27	5,912.78	19.50	304.295		
1,000.00	1,000.00	940.00	940.00	3.36	18.51	146.09	-4,923.07	3,309.86	5,932.27	5,910.40	21.87	271.265		
1,100.00	1,100.00	1,040.00	1,040.00	3.72	20.52	146.09	-4,923.07	3,309.86	5,932.27	5,908.03	24.24	244.712		
1,200.00	1,200.00	1,140.00	1,140.00	4.08	22.54	146.09	-4,923.07	3,309.86	5,932.27	5,905.66	26.61	222.899		
1,300.00	1,300.00	1,240.00	1,240.00	4.44	24.55	146.09	-4,923.07	3,309.86	5,932.27	5,903.29	28.99	204.660		
1,400.00	1,400.00	1,340.00	1,340.00	4.79	26.56	146.09	-4,923.07	3,309.86	5,932.27	5,900.91	31.36	189.182		
1,500.00	1,499.98	1,439.98	1,439.98	5.14	28.58	-17.69	-4,923.07	3,309.86	5,930.61	5,896.90	33.71	175.927		
1,600.00	1,599.84	1,539.84	1,539.84	5.46	30.58	-17.73	-4,923.07	3,309.86	5,925.62	5,889.58	36.05	164.385		
1,700.00	1,699.45	1,639.45	1,639.45	5.80	32.59	-17.81	-4,923.07	3,309.86	5,917.32	5,878.94	38.38	154.166		
1,800.00	1,798.70	1,738.70	1,738.70	6.14	34.59	-17.92	-4,923.07	3,309.86	5,905.71	5,865.00	40.71	145.052		
1,900.00	1,897.47	1,837.47	1,837.47	6.49	36.57	-18.06	-4,923.07	3,309.86	5,890.82	5,847.78	43.04	136.869		
1,969.08	1,965.35	1,905.35	1,905.35	6.75	37.94	-18.17	-4,923.07	3,309.86	5,878.62	5,833.97	44.64	131.683		
2,000.00	1,995.66	1,935.66	1,935.66	6.86	38.55	-18.19	-4,923.07	3,309.86	5,872.81	5,827.45	45.36	129.476		
2,100.00	2,093.69	2,033.69	2,033.69	7.25	40.52	-18.25	-4,923.07	3,309.86	5,854.03	5,806.36	47.67	122.796		
2,200.00	2,191.72	2,131.72	2,131.72	7.65	42.49	-18.31	-4,923.07	3,309.86	5,835.25	5,785.26	49.99	116.723		
2,300.00	2,289.76	2,229.76	2,229.76	8.07	44.47	-18.37	-4,923.07	3,309.86	5,816.49	5,764.17	52.32	111.180		
2,400.00	2,387.79	2,327.79	2,327.79	8.49	46.44	-18.43	-4,923.07	3,309.86	5,797.72	5,743.08	54.64	106.102		
2,500.00	2,485.82	2,425.82	2,425.82	8.91	48.41	-18.50	-4,923.07	3,309.86	5,778.97	5,722.00	56.97	101.432		
2,600.00	2,583.86	2,523.86	2,523.86	9.35	50.38	-18.56	-4,923.07	3,309.86	5,760.22	5,700.91	59.31	97.125		
2,700.00	2,681.89	2,621.89	2,621.89	9.79	52.35	-18.62	-4,923.07	3,309.86	5,741.48	5,679.84	61.64	93.140		
2,800.00	2,779.92	2,719.92	2,719.92	10.24	54.33	-18.68	-4,923.07	3,309.86	5,722.74	5,658.76	63.98	89.443		
2,900.00	2,877.96	2,817.96	2,817.96	10.69	56.30	-18.75	-4,923.07	3,309.86	5,704.02	5,637.69	66.32	86.005		
3,000.00	2,975.99	2,915.99	2,915.99	11.14	58.27	-18.81	-4,923.07	3,309.86	5,685.29	5,616.63	68.66	82.798		
3,100.00	3,074.02	3,014.02	3,014.02	11.60	60.24	-18.87	-4,923.07	3,309.86	5,666.58	5,595.57	71.01	79.801		
3,200.00	3,172.06	3,112.06	3,112.06	12.06	62.21	-18.94	-4,923.07	3,309.86	5,647.87	5,574.52	73.35	76.994		
3,300.00	3,270.09	3,210.09	3,210.09	12.52	64.18	-19.00	-4,923.07	3,309.86	5,629.17	5,553.47	75.70	74.360		
3,400.00	3,368.12	3,308.12	3,308.12	12.98	66.16	-19.07	-4,923.07	3,309.86	5,610.48	5,532.43	78.05	71.883		
3,500.00	3,466.16	3,406.16	3,406.16	13.45	68.13	-19.14	-4,923.07	3,309.86	5,591.79	5,511.39	80.40	69.550		
3,600.00	3,564.19	3,504.19	3,504.19	13.92	70.10	-19.20	-4,923.07	3,309.86	5,573.11	5,490.36	82.75	67.348		
3,700.00	3,662.23	3,602.23	3,602.23	14.39	72.07	-19.27	-4,923.07	3,309.86	5,554.44	5,469.34	85.10	65.268		
3,800.00	3,760.26	3,700.26	3,700.26	14.86	74.04	-19.34	-4,923.07	3,309.86	5,535.77	5,448.32	87.46	63.298		
3,900.00	3,858.29	3,801.71	3,798.29	15.34	76.08	-19.40	-4,923.07	3,309.86	5,517.12	5,427.24	89.88	61.385		
4,000.00	3,956.33	3,903.67	3,896.33	15.81	78.13	-19.47	-4,923.07	3,309.86	5,498.47	5,406.15	92.31	59.564		
4,100.00	4,054.36	4,005.64	3,994.36	16.29	80.18	-19.54	-4,923.07	3,309.86	5,479.82	5,385.08	94.75	57.837		
4,200.00	4,152.39	4,107.61	4,092.39	16.77	82.23	-19.61	-4,923.07	3,309.86	5,461.19	5,364.01	97.18	56.196		
4,300.00	4,250.43	4,209.57	4,190.43	17.25	84.29	-19.68	-4,923.07	3,309.86	5,442.56	5,342.94	99.62	54.634		
4,400.00	4,348.46	4,288.46	4,288.46	17.73	85.87	-19.75	-4,923.07	3,309.86	5,423.94	5,322.35	101.59	53.390		
4,500.00	4,446.49	4,386.49	4,386.49	18.21	87.84	-19.82	-4,923.07	3,309.86	5,405.33	5,301.38	103.95	52.000		
4,600.00	4,544.53	4,484.53	4,484.53	18.69	89.81	-19.89	-4,923.07	3,309.86	5,386.73	5,280.42	106.31	50.671		
4,700.00	4,642.56	4,582.56	4,582.56	19.17	91.79	-19.96	-4,923.07	3,309.86	5,368.13	5,259.47	108.67	49.399		
4,800.00	4,740.59	4,680.59	4,680.59	19.65	93.76	-20.03	-4,923.07	3,309.86	5,349.55	5,238.52	111.03	48.182		
4,900.00	4,838.63	4,778.63	4,778.63	20.13	95.73	-20.11	-4,923.07	3,309.86	5,330.97	5,217.58	113.39	47.015		
5,000.00	4,936.66	4,876.66	4,876.66	20.62	97.70	-20.18	-4,923.07	3,309.86	5,312.40	5,196.65	115.75	45.895		

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-20-3N
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-20-3N	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	5,034.69	4,974.69	4,974.69	21.10	99.67	-20.25	-4,923.07	3,309.86	5,293.84	5,175.72	118.11	44.820		
5,200.00	5,132.73	5,072.73	5,072.73	21.59	101.64	-20.33	-4,923.07	3,309.86	5,275.28	5,154.81	120.48	43.787		
5,300.00	5,230.76	5,170.76	5,170.76	22.07	103.62	-20.40	-4,923.07	3,309.86	5,256.74	5,133.90	122.84	42.794		
5,400.00	5,328.79	5,268.79	5,268.79	22.56	105.59	-20.48	-4,923.07	3,309.86	5,238.20	5,113.00	125.20	41.838		
5,500.00	5,426.83	5,366.83	5,366.83	23.04	107.56	-20.55	-4,923.07	3,309.86	5,219.68	5,092.11	127.57	40.917		
5,600.00	5,524.86	5,464.86	5,464.86	23.53	109.53	-20.63	-4,923.07	3,309.86	5,201.16	5,071.23	129.93	40.030		
5,700.00	5,622.89	5,562.89	5,562.89	24.02	111.50	-20.71	-4,923.07	3,309.86	5,182.65	5,050.35	132.30	39.174		
5,800.00	5,720.93	5,660.93	5,660.93	24.50	113.47	-20.78	-4,923.07	3,309.86	5,164.15	5,029.49	134.66	38.349		
5,900.00	5,818.96	5,758.96	5,758.96	24.99	115.44	-20.86	-4,923.07	3,309.86	5,145.66	5,008.63	137.03	37.551		
6,000.00	5,916.99	5,856.99	5,856.99	25.48	117.42	-20.94	-4,923.07	3,309.86	5,127.18	4,987.78	139.40	36.781		
6,100.00	6,015.03	5,955.03	5,955.03	25.97	119.39	-21.02	-4,923.07	3,309.86	5,108.70	4,966.94	141.76	36.037		
6,200.00	6,113.06	6,053.06	6,053.06	26.45	121.36	-21.10	-4,923.07	3,309.86	5,090.24	4,946.11	144.13	35.317		
6,300.00	6,211.09	6,151.09	6,151.09	26.94	123.33	-21.18	-4,923.07	3,309.86	5,071.79	4,925.29	146.50	34.620		
6,400.00	6,309.13	6,249.13	6,249.13	27.43	125.30	-21.26	-4,923.07	3,309.86	5,053.34	4,904.48	148.87	33.945		
6,500.00	6,407.16	6,347.16	6,347.16	27.92	127.27	-21.34	-4,923.07	3,309.86	5,034.91	4,883.67	151.24	33.292		
6,600.00	6,505.19	6,445.19	6,445.19	28.41	129.24	-21.42	-4,923.07	3,309.86	5,016.49	4,862.88	153.61	32.658		
6,664.73	6,568.65	6,508.65	6,508.65	28.73	130.52	-21.47	-4,923.07	3,309.86	5,004.56	4,849.42	155.14	32.258		
6,700.00	6,603.27	6,543.27	6,543.27	28.90	131.22	-21.46	-4,923.07	3,309.86	4,998.27	4,842.29	155.98	32.045		
6,800.00	6,701.84	6,641.84	6,641.84	29.36	133.20	-21.41	-4,923.07	3,309.86	4,982.60	4,824.25	158.35	31.466		
6,900.00	6,800.94	6,740.94	6,740.94	29.78	135.19	-21.37	-4,923.07	3,309.86	4,970.14	4,809.42	160.72	30.924		
7,000.00	6,900.45	6,840.45	6,840.45	30.17	137.19	-21.35	-4,923.07	3,309.86	4,960.93	4,797.84	163.09	30.419		
7,100.00	7,000.24	6,940.24	6,940.24	30.53	139.20	-21.33	-4,923.07	3,309.86	4,954.95	4,789.50	165.45	29.949		
7,200.00	7,100.19	7,040.19	7,040.19	30.85	141.21	-21.32	-4,923.07	3,309.86	4,952.23	4,784.43	167.80	29.512		
7,233.81	7,134.00	7,074.00	7,074.00	30.95	141.89	142.43	-4,923.07	3,309.86	4,952.04	4,783.45	168.59	29.373		
7,300.00	7,200.19	7,140.19	7,140.19	31.12	143.22	142.43	-4,923.07	3,309.86	4,952.04	4,781.92	170.12	29.108		
7,333.81	7,234.00	7,174.00	7,174.00	31.21	143.90	142.43	-4,923.07	3,309.86	4,952.04	4,781.13	170.91	28.975		
7,350.00	7,250.18	7,209.82	7,190.18	31.26	144.62	-37.24	-4,923.07	3,309.86	4,951.86	4,780.18	171.68	28.843		
7,400.00	7,300.04	7,240.04	7,240.04	31.44	145.23	-37.44	-4,923.07	3,309.86	4,949.00	4,776.53	172.47	28.695		
7,450.00	7,349.39	7,289.39	7,289.39	31.66	146.22	-37.88	-4,923.07	3,309.86	4,942.70	4,769.03	173.67	28.461		
7,500.00	7,397.87	7,337.87	7,337.87	31.92	147.20	-38.58	-4,923.07	3,309.86	4,933.01	4,758.15	174.86	28.211		
7,550.00	7,445.09	7,385.09	7,385.09	32.22	148.15	-39.55	-4,923.07	3,309.86	4,920.01	4,743.97	176.04	27.948		
7,600.00	7,490.72	7,430.72	7,430.72	32.55	149.06	-40.80	-4,923.07	3,309.86	4,903.83	4,726.62	177.21	27.672		
7,650.00	7,534.38	7,474.38	7,474.38	32.92	149.94	-42.36	-4,923.07	3,309.86	4,884.59	4,706.25	178.35	27.388		
7,700.00	7,575.77	7,515.77	7,515.77	33.32	150.77	-44.26	-4,923.07	3,309.86	4,862.48	4,683.03	179.45	27.097		
7,750.00	7,614.55	7,554.55	7,554.55	33.75	151.55	-46.53	-4,923.07	3,309.86	4,837.68	4,657.18	180.51	26.801		
7,800.00	7,650.43	7,609.57	7,590.43	34.22	152.66	-49.21	-4,923.07	3,309.86	4,810.41	4,628.51	181.90	26.446		
7,850.00	7,683.15	7,623.15	7,623.15	34.71	152.93	-52.32	-4,923.07	3,309.86	4,780.90	4,598.44	182.46	26.202		
7,900.00	7,712.45	7,652.45	7,652.45	35.23	153.52	-55.90	-4,923.07	3,309.86	4,749.41	4,566.06	183.35	25.903		
7,950.00	7,738.11	7,678.11	7,678.11	35.78	154.04	-59.97	-4,923.07	3,309.86	4,716.20	4,532.02	184.18	25.607		
8,000.00	7,759.93	7,700.07	7,699.93	36.35	154.48	-64.51	-4,923.07	3,309.86	4,681.56	4,496.63	184.93	25.315		
8,050.00	7,777.75	7,717.75	7,717.75	36.93	154.84	-69.50	-4,923.07	3,309.86	4,645.77	4,460.16	185.61	25.030		
8,100.00	7,791.43	7,731.43	7,731.43	37.53	155.11	-74.85	-4,923.07	3,309.86	4,609.13	4,422.92	186.21	24.753		
8,150.00	7,800.87	7,740.87	7,740.87	38.14	155.30	-80.45	-4,923.07	3,309.86	4,571.94	4,385.21	186.73	24.484		
8,200.00	7,806.00	7,746.00	7,746.00	38.76	155.40	-86.16	-4,923.07	3,309.86	4,534.49	4,347.32	187.17	24.226		
8,233.89	7,807.00	7,747.00	7,747.00	39.18	155.42	-90.00	-4,923.07	3,309.86	4,509.12	4,321.70	187.42	24.058		
8,300.00	7,807.00	7,747.00	7,747.00	40.00	155.42	-90.00	-4,923.07	3,309.86	4,459.93	4,272.03	187.90	23.736		
8,400.00	7,807.00	7,747.00	7,747.00	41.29	155.42	-90.00	-4,923.07	3,309.86	4,386.36	4,197.68	188.68	23.248		
8,500.00	7,806.99	7,746.99	7,746.99	42.60	155.42	-90.00	-4,923.07	3,309.86	4,313.86	4,124.31	189.54	22.759		
8,600.00	7,806.99	7,746.99	7,746.99	43.95	155.42	-90.00	-4,923.07	3,309.86	4,242.47	4,051.98	190.49	22.271		
8,700.00	7,806.99	7,746.99	7,746.99	45.33	155.42	-90.00	-4,923.07	3,309.86	4,172.26	3,980.74	191.53	21.784		
8,800.00	7,806.99	7,746.99	7,746.99	46.74	155.42	-90.00	-4,923.07	3,309.86	4,103.29	3,910.65	192.64	21.300		
8,900.00	7,806.98	7,746.98	7,746.98	48.17	155.42	-90.00	-4,923.07	3,309.86	4,035.62	3,841.77	193.85	20.819		

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-20-3N
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-20-3N	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	7,806.98	7,746.98	7,746.98	49.62	155.42	-90.00	-4,923.07	3,309.86	3,969.31	3,774.17	195.13	20.342		
9,100.00	7,806.98	7,746.98	7,746.98	51.09	155.42	-90.00	-4,923.07	3,309.86	3,904.43	3,707.93	196.50	19.869		
9,200.00	7,806.98	7,746.98	7,746.98	52.59	155.42	-90.00	-4,923.07	3,309.86	3,841.07	3,643.11	197.96	19.403		
9,300.00	7,806.97	7,746.97	7,746.97	54.09	155.42	-90.00	-4,923.07	3,309.86	3,779.29	3,579.79	199.50	18.944		
9,400.00	7,806.97	7,746.97	7,746.97	55.62	155.42	-90.00	-4,923.07	3,309.86	3,719.17	3,518.06	201.11	18.493		
9,500.00	7,806.97	7,746.97	7,746.97	57.16	155.42	-90.00	-4,923.07	3,309.86	3,660.80	3,457.99	202.81	18.051		
9,600.00	7,806.97	7,746.97	7,746.97	58.71	155.42	-90.00	-4,923.07	3,309.86	3,604.25	3,399.67	204.58	17.618		
9,700.00	7,806.96	7,746.96	7,746.96	60.27	155.42	-90.00	-4,923.07	3,309.86	3,549.62	3,343.20	206.42	17.196		
9,800.00	7,806.96	7,746.96	7,746.96	61.84	155.42	-90.00	-4,923.07	3,309.86	3,497.00	3,288.67	208.33	16.786		
9,900.00	7,806.96	7,746.96	7,746.96	63.43	155.42	-90.00	-4,923.07	3,309.86	3,446.48	3,236.18	210.31	16.388		
10,000.00	7,806.96	7,746.96	7,746.96	65.02	155.42	-90.00	-4,923.07	3,309.86	3,398.15	3,185.81	212.34	16.003		
10,100.00	7,806.95	7,746.95	7,746.95	66.63	155.42	-90.00	-4,923.07	3,309.86	3,352.11	3,137.68	214.43	15.633		
10,200.00	7,806.95	7,746.95	7,746.95	68.24	155.42	-90.00	-4,923.07	3,309.86	3,308.45	3,091.89	216.56	15.277		
10,300.00	7,806.95	7,746.95	7,746.95	69.86	155.42	-90.00	-4,923.07	3,309.86	3,267.27	3,048.53	218.74	14.937		
10,400.00	7,806.95	7,746.95	7,746.95	71.49	155.42	-90.00	-4,923.07	3,309.86	3,228.66	3,007.71	220.95	14.613		
10,500.00	7,806.94	7,746.94	7,746.94	73.12	155.42	-90.00	-4,923.07	3,309.86	3,192.72	2,969.54	223.18	14.305		
10,600.00	7,806.94	7,746.94	7,746.94	74.76	155.42	-90.00	-4,923.07	3,309.86	3,159.54	2,934.10	225.43	14.015		
10,700.00	7,806.94	7,746.94	7,746.94	76.41	155.42	-90.00	-4,923.07	3,309.86	3,129.20	2,901.50	227.69	13.743		
10,800.00	7,806.94	7,746.94	7,746.94	78.06	155.42	-90.00	-4,923.07	3,309.86	3,101.79	2,871.84	229.95	13.489		
10,900.00	7,806.93	7,746.93	7,746.93	79.72	155.42	-90.00	-4,923.07	3,309.86	3,077.38	2,845.19	232.20	13.253		
11,000.00	7,806.93	7,746.93	7,746.93	81.38	155.42	-90.00	-4,923.07	3,309.86	3,056.06	2,821.64	234.42	13.037		
11,100.00	7,806.93	7,746.93	7,746.93	83.05	155.42	-90.00	-4,923.07	3,309.86	3,037.88	2,801.27	236.61	12.839		
11,200.00	7,806.93	7,746.93	7,746.93	84.72	155.42	-90.00	-4,923.07	3,309.86	3,022.90	2,784.14	238.76	12.661		
11,300.00	7,806.92	7,746.92	7,746.92	86.39	155.42	-90.00	-4,923.07	3,309.86	3,011.16	2,770.31	240.85	12.502		
11,400.00	7,806.92	7,746.92	7,746.92	88.07	155.42	-90.00	-4,923.07	3,309.86	3,002.72	2,759.83	242.89	12.363		
11,500.00	7,806.92	7,746.92	7,746.92	89.75	155.42	-90.00	-4,923.07	3,309.86	2,997.58	2,752.73	244.85	12.242		
11,600.00	7,806.92	7,746.92	7,746.92	91.44	155.42	-90.00	-4,923.07	3,309.86	2,995.78	2,749.05	246.74	12.142		
11,603.98	7,806.92	7,746.92	7,746.92	91.51	155.42	-90.00	-4,923.07	3,309.86	2,995.78	2,748.97	246.81	12.138 CC		
11,700.00	7,806.91	7,746.91	7,746.91	93.13	155.42	-90.00	-4,923.07	3,309.86	2,997.32	2,748.79	248.53	12.060 ES		
11,800.00	7,806.91	7,746.91	7,746.91	94.82	155.42	-90.00	-4,923.07	3,309.86	3,002.19	2,751.95	250.24	11.997		
11,900.00	7,806.91	7,746.91	7,746.91	96.52	155.42	-90.00	-4,923.07	3,309.86	3,010.37	2,758.53	251.84	11.953		
12,000.00	7,806.91	7,746.91	7,746.91	98.21	155.42	-90.00	-4,923.07	3,309.86	3,021.84	2,768.50	253.34	11.928		
12,100.00	7,806.90	7,746.90	7,746.90	99.91	155.42	-90.00	-4,923.07	3,309.86	3,036.57	2,781.82	254.74	11.920 SF		
12,200.00	7,806.90	7,746.90	7,746.90	101.62	155.42	-90.00	-4,923.07	3,309.86	3,054.49	2,798.46	256.03	11.930		
12,300.00	7,806.90	7,746.90	7,746.90	103.32	155.42	-90.00	-4,923.07	3,309.86	3,075.57	2,818.36	257.21	11.957		
12,400.00	7,806.90	7,746.90	7,746.90	105.03	155.42	-90.00	-4,923.07	3,309.86	3,099.73	2,841.45	258.28	12.001		
12,500.00	7,806.89	7,746.89	7,746.89	106.74	155.42	-90.00	-4,923.07	3,309.86	3,126.91	2,867.66	259.25	12.062		
12,600.00	7,806.89	7,746.89	7,746.89	108.45	155.42	-90.00	-4,923.07	3,309.86	3,157.02	2,896.91	260.11	12.137		
12,700.00	7,806.89	7,746.89	7,746.89	110.17	155.42	-90.00	-4,923.07	3,309.86	3,189.98	2,929.11	260.86	12.228		
12,800.00	7,806.89	7,746.89	7,746.89	111.88	155.42	-90.00	-4,923.07	3,309.86	3,225.70	2,964.18	261.52	12.334		
12,900.00	7,806.88	7,746.88	7,746.88	113.60	155.42	-90.00	-4,923.07	3,309.86	3,264.10	3,002.01	262.09	12.454		
13,000.00	7,806.88	7,746.88	7,746.88	115.32	155.42	-90.00	-4,923.07	3,309.86	3,305.08	3,042.52	262.57	12.588		
13,100.00	7,806.88	7,746.88	7,746.88	117.04	155.42	-90.00	-4,923.07	3,309.86	3,348.55	3,085.59	262.96	12.734		
13,200.00	7,806.88	7,746.88	7,746.88	118.76	155.42	-90.00	-4,923.07	3,309.86	3,394.40	3,131.14	263.27	12.893		
13,300.00	7,806.87	7,746.87	7,746.87	120.48	155.42	-90.00	-4,923.07	3,309.86	3,442.56	3,179.05	263.51	13.064		
13,400.00	7,806.87	7,746.87	7,746.87	122.21	155.42	-90.00	-4,923.07	3,309.86	3,492.91	3,229.23	263.68	13.247		
13,500.00	7,806.87	7,746.87	7,746.87	123.94	155.42	-90.00	-4,923.07	3,309.86	3,545.36	3,281.58	263.78	13.440		
13,600.00	7,806.87	7,746.87	7,746.87	125.66	155.42	-90.00	-4,923.07	3,309.86	3,599.83	3,336.00	263.83	13.644		
13,700.00	7,806.86	7,746.86	7,746.86	127.39	155.42	-90.00	-4,923.07	3,309.86	3,656.23	3,392.40	263.83	13.858		
13,800.00	7,806.86	7,746.86	7,746.86	129.12	155.42	-90.00	-4,923.07	3,309.86	3,714.46	3,450.69	263.77	14.082		
13,900.00	7,806.86	7,746.86	7,746.86	130.85	155.42	-90.00	-4,923.07	3,309.86	3,774.44	3,510.77	263.68	14.315		
14,000.00	7,806.86	7,746.86	7,746.86	132.59	155.42	-90.00	-4,923.07	3,309.86	3,836.09	3,572.55	263.54	14.556		

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-20-3N
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-20-3N	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 BICKLER A UNIT 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		
14,100.00	7,806.85	7,746.85	7,746.85	134.32	155.42	-90.00	-4,923.07	3,309.86	3,899.34	3,635.97	263.37	14.806		
14,200.00	7,806.85	7,746.85	7,746.85	136.06	155.42	-90.00	-4,923.07	3,309.86	3,964.09	3,700.93	263.17	15.063		
14,300.00	7,806.85	7,746.85	7,746.85	137.79	155.42	-90.00	-4,923.07	3,309.86	4,030.29	3,767.35	262.94	15.328		
14,400.00	7,806.85	7,746.85	7,746.85	139.53	155.42	-90.00	-4,923.07	3,309.86	4,097.86	3,835.18	262.68	15.600		
14,500.00	7,806.84	7,746.84	7,746.84	141.27	155.42	-90.00	-4,923.07	3,309.86	4,166.73	3,904.32	262.41	15.879		
14,600.00	7,806.84	7,746.84	7,746.84	143.00	155.42	-90.00	-4,923.07	3,309.86	4,236.84	3,974.73	262.11	16.164		
14,700.00	7,806.84	7,746.84	7,746.84	144.74	155.42	-90.00	-4,923.07	3,309.86	4,308.14	4,046.34	261.80	16.456		
14,800.00	7,806.84	7,746.84	7,746.84	146.48	155.42	-90.00	-4,923.07	3,309.86	4,380.55	4,119.08	261.48	16.753		
14,900.00	7,806.83	7,746.83	7,746.83	148.22	155.42	-90.00	-4,923.07	3,309.86	4,454.04	4,192.90	261.14	17.056		
15,000.00	7,806.83	7,746.83	7,746.83	149.97	155.42	-90.00	-4,923.07	3,309.86	4,528.54	4,267.74	260.80	17.364		
15,100.00	7,806.83	7,746.83	7,746.83	151.71	155.42	-90.00	-4,923.07	3,309.86	4,604.01	4,343.56	260.44	17.678		
15,200.00	7,806.83	7,746.83	7,746.83	153.45	155.42	-90.00	-4,923.07	3,309.86	4,680.39	4,420.31	260.09	17.996		
15,300.00	7,806.82	7,746.82	7,746.82	155.19	155.42	-90.00	-4,923.07	3,309.86	4,757.65	4,497.93	259.72	18.318		
15,400.00	7,806.82	7,746.82	7,746.82	156.94	155.42	-90.00	-4,923.07	3,309.86	4,835.75	4,576.39	259.36	18.645		
15,500.00	7,806.82	7,746.82	7,746.82	158.68	155.42	-90.00	-4,923.07	3,309.86	4,914.64	4,655.65	258.99	18.976		
15,600.00	7,806.82	7,746.82	7,746.82	160.43	155.42	-90.00	-4,923.07	3,309.86	4,994.29	4,735.67	258.62	19.312		
15,700.00	7,806.81	7,746.81	7,746.81	162.18	155.42	-90.00	-4,923.07	3,309.86	5,074.65	4,816.41	258.25	19.650		
15,800.00	7,806.81	7,746.81	7,746.81	163.92	155.42	-90.00	-4,923.07	3,309.86	5,155.71	4,897.83	257.88	19.993		
15,900.00	7,806.81	7,746.81	7,746.81	165.67	155.42	-90.00	-4,923.07	3,309.86	5,237.41	4,979.90	257.51	20.339		
16,000.00	7,806.81	7,746.81	7,746.81	167.42	155.42	-90.00	-4,923.07	3,309.86	5,319.75	5,062.60	257.14	20.688		
16,100.00	7,806.80	7,746.80	7,746.80	169.17	155.42	-90.00	-4,923.07	3,309.86	5,402.68	5,145.90	256.78	21.040		
16,200.00	7,806.80	7,746.80	7,746.80	170.91	155.42	-90.00	-4,923.07	3,309.86	5,486.18	5,229.76	256.42	21.395		
16,300.00	7,806.80	7,746.80	7,746.80	172.66	155.42	-90.00	-4,923.07	3,309.86	5,570.22	5,314.16	256.06	21.753		
16,400.00	7,806.80	7,746.80	7,746.80	174.41	155.42	-90.00	-4,923.07	3,309.86	5,654.78	5,399.07	255.71	22.114		
16,500.00	7,806.79	7,746.79	7,746.79	176.16	155.42	-90.00	-4,923.07	3,309.86	5,739.84	5,484.48	255.36	22.478		
16,600.00	7,806.79	7,746.79	7,746.79	177.92	155.42	-90.00	-4,923.07	3,309.86	5,825.37	5,570.36	255.01	22.843		
16,700.00	7,806.79	7,746.79	7,746.79	179.67	155.42	-90.00	-4,923.07	3,309.86	5,911.36	5,656.68	254.67	23.212		
16,800.00	7,806.79	7,746.79	7,746.79	181.42	155.42	-90.00	-4,923.07	3,309.86	5,997.78	5,743.44	254.34	23.582		
16,900.00	7,806.78	7,746.78	7,746.78	183.17	155.42	-90.00	-4,923.07	3,309.86	6,084.62	5,830.61	254.01	23.955		
17,000.00	7,806.78	7,746.78	7,746.78	184.92	155.42	-90.00	-4,923.07	3,309.86	6,171.85	5,918.17	253.68	24.329		
17,100.00	7,806.78	7,746.78	7,746.78	186.68	155.42	-90.00	-4,923.07	3,309.86	6,259.47	6,006.11	253.36	24.706		
17,200.00	7,806.78	7,746.78	7,746.78	188.43	155.42	-90.00	-4,923.07	3,309.86	6,347.45	6,094.41	253.04	25.084		
17,300.00	7,806.77	7,746.77	7,746.77	190.18	155.42	-90.00	-4,923.07	3,309.86	6,435.79	6,183.05	252.73	25.465		
17,400.00	7,806.77	7,746.77	7,746.77	191.94	155.42	-90.00	-4,923.07	3,309.86	6,524.46	6,272.03	252.43	25.847		
17,500.00	7,806.77	7,746.77	7,746.77	193.69	155.42	-90.00	-4,923.07	3,309.86	6,613.45	6,361.32	252.13	26.230		
17,600.00	7,806.77	7,746.77	7,746.77	195.45	155.42	-90.00	-4,923.07	3,309.86	6,702.76	6,450.92	251.84	26.615		
17,700.00	7,806.76	7,746.76	7,746.76	197.20	155.42	-90.00	-4,923.07	3,309.86	6,792.36	6,540.81	251.55	27.002		
17,800.00	7,806.76	7,746.76	7,746.76	198.96	155.42	-90.00	-4,923.07	3,309.86	6,882.25	6,630.98	251.27	27.390		
17,877.44	7,807.00	7,747.00	7,747.00	200.32	155.42	-90.00	-4,923.07	3,309.86	6,952.02	6,700.97	251.06	27.691		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	123.04	-4,407.29	6,776.40	8,083.93					
100.00	100.00	22.00	22.00	0.13	0.26	123.04	-4,407.29	6,776.40	8,083.55	8,083.15	0.40	N/A		
200.00	200.00	122.00	122.00	0.49	1.70	123.04	-4,407.29	6,776.40	8,083.55	8,081.35	2.19	3,682.972		
300.00	300.00	222.00	222.00	0.85	3.95	123.04	-4,407.29	6,776.40	8,083.55	8,078.75	4.80	1,685.311		
400.00	400.00	322.00	322.00	1.21	6.02	123.04	-4,407.29	6,776.40	8,083.55	8,076.32	7.23	1,118.781		
500.00	500.00	422.00	422.00	1.57	8.05	123.04	-4,407.29	6,776.40	8,083.55	8,073.93	9.62	840.016		
600.00	600.00	522.00	522.00	1.93	10.08	123.04	-4,407.29	6,776.40	8,083.55	8,071.54	12.01	673.111		
700.00	700.00	622.00	622.00	2.29	12.10	123.04	-4,407.29	6,776.40	8,083.55	8,069.16	14.39	561.759		
800.00	800.00	722.00	722.00	2.64	14.12	123.04	-4,407.29	6,776.40	8,083.55	8,066.78	16.77	482.111		
900.00	900.00	822.00	822.00	3.00	16.14	123.04	-4,407.29	6,776.40	8,083.55	8,064.41	19.14	422.287		
1,000.00	1,000.00	922.00	922.00	3.36	18.16	123.04	-4,407.29	6,776.40	8,083.55	8,062.03	21.52	375.694		
1,100.00	1,100.00	1,022.00	1,022.00	3.72	20.17	123.04	-4,407.29	6,776.40	8,083.55	8,059.66	23.89	338.374		
1,200.00	1,200.00	1,122.00	1,122.00	4.08	22.18	123.04	-4,407.29	6,776.40	8,083.55	8,057.29	26.26	307.807		
1,300.00	1,300.00	1,222.00	1,222.00	4.44	24.20	123.04	-4,407.29	6,776.40	8,083.55	8,054.92	28.63	282.309		
1,400.00	1,400.00	1,322.00	1,322.00	4.79	26.21	123.04	-4,407.29	6,776.40	8,083.55	8,052.54	31.01	260.716		
1,500.00	1,499.98	1,421.98	1,421.98	5.14	28.22	-40.74	-4,407.29	6,776.40	8,082.23	8,048.87	33.36	242.287		
1,600.00	1,599.84	1,521.84	1,521.84	5.46	30.23	-40.82	-4,407.29	6,776.40	8,078.26	8,042.57	35.69	226.320		
1,700.00	1,699.45	1,621.45	1,621.45	5.80	32.24	-40.95	-4,407.29	6,776.40	8,071.66	8,033.63	38.03	212.246		
1,800.00	1,798.70	1,720.70	1,720.70	6.14	34.23	-41.12	-4,407.29	6,776.40	8,062.44	8,022.08	40.36	199.746		
1,900.00	1,897.47	1,819.47	1,819.47	6.49	36.22	-41.35	-4,407.29	6,776.40	8,050.61	8,007.92	42.69	188.562		
1,969.08	1,965.35	1,887.35	1,887.35	6.75	37.59	-41.54	-4,407.29	6,776.40	8,040.93	7,996.63	44.30	181.496		
2,000.00	1,995.66	1,917.66	1,917.66	6.86	38.20	-41.57	-4,407.29	6,776.40	8,036.33	7,991.30	45.02	178.491		
2,100.00	2,093.69	2,015.69	2,015.69	7.25	40.17	-41.67	-4,407.29	6,776.40	8,021.45	7,974.09	47.36	169.389		
2,200.00	2,191.72	2,113.72	2,113.72	7.65	42.14	-41.76	-4,407.29	6,776.40	8,006.59	7,956.89	49.69	161.115		
2,300.00	2,289.76	2,211.76	2,211.76	8.07	44.11	-41.85	-4,407.29	6,776.40	7,991.75	7,939.71	52.04	153.565		
2,400.00	2,387.79	2,309.79	2,309.79	8.49	46.09	-41.95	-4,407.29	6,776.40	7,976.93	7,922.54	54.39	146.651		
2,500.00	2,485.82	2,407.82	2,407.82	8.91	48.06	-42.04	-4,407.29	6,776.40	7,962.13	7,905.38	56.75	140.297		
2,600.00	2,583.86	2,505.86	2,505.86	9.35	50.03	-42.13	-4,407.29	6,776.40	7,947.36	7,888.24	59.11	134.440		
2,700.00	2,681.89	2,603.89	2,603.89	9.79	52.00	-42.23	-4,407.29	6,776.40	7,932.60	7,871.12	61.48	129.025		
2,800.00	2,779.92	2,701.92	2,701.92	10.24	53.97	-42.32	-4,407.29	6,776.40	7,917.87	7,854.02	63.85	124.004		
2,900.00	2,877.96	2,800.04	2,799.96	10.69	55.95	-42.42	-4,407.29	6,776.40	7,903.16	7,836.93	66.23	119.334		
3,000.00	2,975.99	2,902.01	2,897.99	11.14	58.00	-42.52	-4,407.29	6,776.40	7,888.47	7,819.79	68.68	114.853		
3,100.00	3,074.02	3,003.98	2,996.02	11.60	60.05	-42.61	-4,407.29	6,776.40	7,873.81	7,802.67	71.14	110.677		
3,200.00	3,172.06	3,105.94	3,094.06	12.06	62.10	-42.71	-4,407.29	6,776.40	7,859.16	7,785.56	73.60	106.778		
3,300.00	3,270.09	3,207.91	3,192.09	12.52	64.15	-42.81	-4,407.29	6,776.40	7,844.54	7,768.48	76.07	103.127		
3,400.00	3,368.12	3,309.88	3,290.12	12.98	66.20	-42.90	-4,407.29	6,776.40	7,829.94	7,751.41	78.53	99.704		
3,500.00	3,466.16	3,388.16	3,388.16	13.45	67.78	-43.00	-4,407.29	6,776.40	7,815.37	7,734.84	80.52	97.057		
3,600.00	3,564.19	3,486.19	3,486.19	13.92	69.75	-43.10	-4,407.29	6,776.40	7,800.81	7,717.90	82.91	94.084		
3,700.00	3,662.23	3,584.23	3,584.23	14.39	71.72	-43.20	-4,407.29	6,776.40	7,786.28	7,700.98	85.31	91.275		
3,800.00	3,760.26	3,682.26	3,682.26	14.86	73.69	-43.29	-4,407.29	6,776.40	7,771.77	7,684.07	87.70	88.619		
3,900.00	3,858.29	3,780.29	3,780.29	15.34	75.66	-43.39	-4,407.29	6,776.40	7,757.29	7,667.19	90.09	86.102		
4,000.00	3,956.33	3,878.33	3,878.33	15.81	77.63	-43.49	-4,407.29	6,776.40	7,742.83	7,650.34	92.49	83.715		
4,100.00	4,054.36	3,976.36	3,976.36	16.29	79.61	-43.59	-4,407.29	6,776.40	7,728.39	7,633.50	94.89	81.448		
4,200.00	4,152.39	4,074.39	4,074.39	16.77	81.58	-43.69	-4,407.29	6,776.40	7,713.97	7,616.69	97.29	79.291		
4,300.00	4,250.43	4,172.43	4,172.43	17.25	83.55	-43.79	-4,407.29	6,776.40	7,699.58	7,599.89	99.69	77.238		
4,400.00	4,348.46	4,270.46	4,270.46	17.73	85.52	-43.89	-4,407.29	6,776.40	7,685.21	7,583.13	102.09	75.281		
4,500.00	4,446.49	4,368.49	4,368.49	18.21	87.49	-44.00	-4,407.29	6,776.40	7,670.87	7,566.38	104.49	73.413		
4,600.00	4,544.53	4,466.53	4,466.53	18.69	89.46	-44.10	-4,407.29	6,776.40	7,656.55	7,549.66	106.89	71.628		
4,700.00	4,642.56	4,564.56	4,564.56	19.17	91.43	-44.20	-4,407.29	6,776.40	7,642.25	7,532.96	109.30	69.922		
4,800.00	4,740.59	4,662.59	4,662.59	19.65	93.41	-44.30	-4,407.29	6,776.40	7,627.98	7,516.28	111.70	68.288		
4,900.00	4,838.63	4,760.63	4,760.63	20.13	95.38	-44.40	-4,407.29	6,776.40	7,613.73	7,499.63	114.11	66.724		
5,000.00	4,936.66	4,858.66	4,858.66	20.62	97.35	-44.51	-4,407.29	6,776.40	7,599.51	7,483.00	116.52	65.223		

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-20-3N
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-20-3N	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	5,034.69	4,956.69	4,956.69	21.10	99.32	-44.61	-4,407.29	6,776.40	7,585.31	7,466.39	118.92	63.783		
5,200.00	5,132.73	5,054.73	5,054.73	21.59	101.29	-44.71	-4,407.29	6,776.40	7,571.14	7,449.81	121.33	62.400		
5,300.00	5,230.76	5,152.76	5,152.76	22.07	103.26	-44.82	-4,407.29	6,776.40	7,556.99	7,433.25	123.74	61.071		
5,400.00	5,328.79	5,250.79	5,250.79	22.56	105.24	-44.92	-4,407.29	6,776.40	7,542.87	7,416.72	126.15	59.792		
5,500.00	5,426.83	5,348.83	5,348.83	23.04	107.21	-45.03	-4,407.29	6,776.40	7,528.77	7,400.21	128.56	58.561		
5,600.00	5,524.86	5,446.86	5,446.86	23.53	109.18	-45.13	-4,407.29	6,776.40	7,514.70	7,383.72	130.97	57.375		
5,700.00	5,622.89	5,503.00	5,503.00	24.02	110.31	-45.19	-4,407.29	6,776.40	7,500.77	7,368.22	132.55	56.587		
5,800.00	5,720.93	5,503.00	5,503.00	24.50	110.31	-45.19	-4,407.29	6,776.40	7,487.94	7,354.94	133.00	56.302		
5,900.00	5,818.96	5,503.00	5,503.00	24.99	110.31	-45.19	-4,407.29	6,776.40	7,476.42	7,343.00	133.42	56.038		
6,000.00	5,916.99	5,503.00	5,503.00	25.48	110.31	-45.19	-4,407.29	6,776.40	7,466.23	7,332.41	133.82	55.794		
6,100.00	6,015.03	5,503.00	5,503.00	25.97	110.31	-45.19	-4,407.29	6,776.40	7,457.36	7,323.16	134.20	55.570		
6,200.00	6,113.06	5,503.00	5,503.00	26.45	110.31	-45.19	-4,407.29	6,776.40	7,449.83	7,315.27	134.56	55.366		
6,300.00	6,211.09	5,503.00	5,503.00	26.94	110.31	-45.19	-4,407.29	6,776.40	7,443.63	7,308.74	134.89	55.183		
6,400.00	6,309.13	5,503.00	5,503.00	27.43	110.31	-45.19	-4,407.29	6,776.40	7,438.77	7,303.57	135.20	55.019		
6,500.00	6,407.16	5,503.00	5,503.00	27.92	110.31	-45.19	-4,407.29	6,776.40	7,435.25	7,299.76	135.49	54.876		
6,600.00	6,505.19	5,503.00	5,503.00	28.41	110.31	-45.19	-4,407.29	6,776.40	7,433.08	7,297.32	135.76	54.752		
6,664.73	6,568.65	5,503.00	5,503.00	28.73	110.31	-45.19	-4,407.29	6,776.40	7,432.39	7,296.47	135.92	54.683		
6,681.30	6,584.90	5,503.00	5,503.00	28.81	110.31	-45.19	-4,407.29	6,776.40	7,432.34	7,296.38	135.96	54.667		
6,700.00	6,603.27	5,503.00	5,503.00	28.90	110.31	-45.19	-4,407.29	6,776.40	7,432.40	7,296.40	136.00	54.650		
6,800.00	6,701.84	5,503.00	5,503.00	29.36	110.31	-45.23	-4,407.29	6,776.40	7,435.02	7,298.82	136.20	54.589		
6,900.00	6,800.94	5,503.00	5,503.00	29.78	110.31	-45.32	-4,407.29	6,776.40	7,441.43	7,305.08	136.35	54.575		
7,000.00	6,900.45	5,503.00	5,503.00	30.17	110.31	-45.47	-4,407.29	6,776.40	7,451.62	7,315.16	136.46	54.608		
7,100.00	7,000.24	5,503.00	5,503.00	30.53	110.31	-45.67	-4,407.29	6,776.40	7,465.56	7,329.05	136.51	54.688		
7,200.00	7,100.19	5,503.00	5,503.00	30.85	110.31	-45.93	-4,407.29	6,776.40	7,483.22	7,346.69	136.52	54.813		
7,233.81	7,134.00	5,503.00	5,503.00	30.95	110.31	-117.73	-4,407.29	6,776.40	7,490.02	7,353.51	136.51	54.868		
7,300.00	7,200.19	5,503.00	5,503.00	31.12	110.31	-117.73	-4,407.29	6,776.40	7,504.02	7,367.55	136.47	54.987		
7,333.81	7,234.00	5,503.00	5,503.00	31.21	110.31	-117.73	-4,407.29	6,776.40	7,511.39	7,374.94	136.45	55.050		
7,350.00	7,250.18	5,503.00	5,503.00	31.26	110.31	-61.62	-4,407.29	6,776.40	7,514.86	7,378.43	136.44	55.079		
7,400.00	7,300.04	5,503.00	5,503.00	31.44	110.31	-60.76	-4,407.29	6,776.40	7,524.45	7,388.02	136.43	55.151		
7,450.00	7,349.39	5,503.00	5,503.00	31.66	110.31	-60.07	-4,407.29	6,776.40	7,532.26	7,395.80	136.46	55.198		
7,500.00	7,397.87	5,503.00	5,503.00	31.92	110.31	-59.55	-4,407.29	6,776.40	7,538.24	7,401.73	136.51	55.220		
7,550.00	7,445.09	5,503.00	5,503.00	32.22	110.31	-59.20	-4,407.29	6,776.40	7,542.36	7,405.76	136.59	55.217		
7,600.00	7,490.72	5,503.00	5,503.00	32.55	110.31	-59.01	-4,407.29	6,776.40	7,544.57	7,407.86	136.71	55.189		
7,650.00	7,534.38	5,503.00	5,503.00	32.92	110.31	-58.98	-4,407.29	6,776.40	7,544.87	7,408.02	136.85	55.134		
7,700.00	7,575.77	5,503.00	5,503.00	33.32	110.31	-59.12	-4,407.29	6,776.40	7,543.25	7,406.24	137.02	55.054		
7,750.00	7,614.55	5,503.00	5,503.00	33.75	110.31	-59.42	-4,407.29	6,776.40	7,539.73	7,402.51	137.22	54.947		
7,800.00	7,650.43	5,503.00	5,503.00	34.22	110.31	-59.89	-4,407.29	6,776.40	7,534.33	7,396.88	137.45	54.815		
7,850.00	7,683.15	5,503.00	5,503.00	34.71	110.31	-60.53	-4,407.29	6,776.40	7,527.08	7,389.37	137.72	54.656		
7,900.00	7,712.45	5,503.00	5,503.00	35.23	110.31	-61.33	-4,407.29	6,776.40	7,518.05	7,380.03	138.02	54.472		
7,950.00	7,738.11	5,503.00	5,503.00	35.78	110.31	-62.30	-4,407.29	6,776.40	7,507.28	7,368.93	138.35	54.264		
8,000.00	7,759.93	5,503.00	5,503.00	36.35	110.31	-63.44	-4,407.29	6,776.40	7,494.85	7,356.14	138.71	54.032		
8,050.00	7,777.75	5,503.00	5,503.00	36.93	110.31	-64.76	-4,407.29	6,776.40	7,480.85	7,341.74	139.11	53.777		
8,100.00	7,791.43	5,503.00	5,503.00	37.53	110.31	-66.24	-4,407.29	6,776.40	7,465.39	7,325.85	139.54	53.501		
8,150.00	7,800.87	5,503.00	5,503.00	38.14	110.31	-67.88	-4,407.29	6,776.40	7,448.55	7,308.56	139.99	53.206		
8,200.00	7,806.00	5,503.00	5,503.00	38.76	110.31	-69.69	-4,407.29	6,776.40	7,430.48	7,290.00	140.48	52.894		
8,233.89	7,807.00	5,503.00	5,503.00	39.18	110.31	-71.00	-4,407.29	6,776.40	7,417.58	7,276.76	140.82	52.674		
8,300.00	7,807.00	5,503.00	5,503.00	40.00	110.31	-71.00	-4,407.29	6,776.40	7,392.21	7,250.70	141.51	52.237		
8,400.00	7,807.00	5,503.00	5,503.00	41.29	110.31	-71.00	-4,407.29	6,776.40	7,354.80	7,212.19	142.61	51.573		
8,500.00	7,806.99	5,503.00	5,503.00	42.60	110.31	-71.00	-4,407.29	6,776.40	7,318.56	7,174.80	143.76	50.908		
8,600.00	7,806.99	5,503.00	5,503.00	43.95	110.31	-71.00	-4,407.29	6,776.40	7,283.51	7,138.55	144.96	50.244		
8,700.00	7,806.99	5,503.00	5,503.00	45.33	110.31	-71.00	-4,407.29	6,776.40	7,249.67	7,103.46	146.21	49.583		
8,800.00	7,806.99	5,503.00	5,503.00	46.74	110.31	-71.00	-4,407.29	6,776.40	7,217.06	7,069.55	147.51	48.926		

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-20-3N
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-20-3N	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	7,806.98	5,503.00	5,503.00	48.17	110.31	-71.00	-4,407.29	6,776.40	7,185.69	7,036.85	148.85	48.276		
9,000.00	7,806.98	5,503.00	5,503.00	49.62	110.31	-71.00	-4,407.29	6,776.40	7,155.59	7,005.36	150.22	47.633		
9,100.00	7,806.98	5,503.00	5,503.00	51.09	110.31	-71.00	-4,407.29	6,776.40	7,126.76	6,975.12	151.63	47.000		
9,200.00	7,806.98	5,503.00	5,503.00	52.59	110.31	-71.00	-4,407.29	6,776.40	7,099.22	6,946.14	153.08	46.376		
9,300.00	7,806.97	5,503.00	5,503.00	54.09	110.31	-71.00	-4,407.29	6,776.40	7,072.98	6,918.43	154.55	45.764		
9,400.00	7,806.97	5,503.00	5,503.00	55.62	110.31	-71.00	-4,407.29	6,776.40	7,048.07	6,892.02	156.06	45.164		
9,500.00	7,806.97	5,503.00	5,503.00	57.16	110.31	-71.00	-4,407.29	6,776.40	7,024.50	6,866.92	157.58	44.577		
9,600.00	7,806.97	5,503.00	5,503.00	58.71	110.31	-71.00	-4,407.29	6,776.40	7,002.27	6,843.14	159.13	44.003		
9,700.00	7,806.96	5,503.00	5,503.00	60.27	110.31	-71.00	-4,407.29	6,776.40	6,981.41	6,820.70	160.70	43.443		
9,800.00	7,806.96	5,503.00	5,503.00	61.84	110.31	-71.00	-4,407.29	6,776.40	6,961.91	6,799.62	162.29	42.898		
9,900.00	7,806.96	5,503.00	5,503.00	63.43	110.31	-71.00	-4,407.29	6,776.40	6,943.81	6,779.92	163.89	42.368		
10,000.00	7,806.96	5,503.00	5,503.00	65.02	110.31	-71.00	-4,407.29	6,776.40	6,927.10	6,761.59	165.51	41.853		
10,100.00	7,806.95	5,503.00	5,503.00	66.63	110.31	-71.00	-4,407.29	6,776.40	6,911.80	6,744.66	167.14	41.353		
10,200.00	7,806.95	5,503.00	5,503.00	68.24	110.31	-71.00	-4,407.29	6,776.40	6,897.91	6,729.13	168.78	40.869		
10,300.00	7,806.95	5,503.00	5,503.00	69.86	110.31	-71.00	-4,407.29	6,776.40	6,885.45	6,715.02	170.43	40.401		
10,400.00	7,806.95	5,503.00	5,503.00	71.49	110.31	-71.00	-4,407.29	6,776.40	6,874.42	6,702.34	172.08	39.948		
10,500.00	7,806.94	5,503.00	5,503.00	73.12	110.31	-71.00	-4,407.29	6,776.40	6,864.83	6,691.09	173.74	39.512		
10,600.00	7,806.94	5,503.00	5,503.00	74.76	110.31	-71.00	-4,407.29	6,776.40	6,856.68	6,681.28	175.40	39.092		
10,700.00	7,806.94	5,503.00	5,503.00	76.41	110.31	-71.00	-4,407.29	6,776.40	6,849.99	6,672.93	177.06	38.687		
10,800.00	7,806.94	5,503.00	5,503.00	78.06	110.31	-71.00	-4,407.29	6,776.40	6,844.75	6,666.03	178.72	38.299		
10,900.00	7,806.93	5,503.00	5,503.00	79.72	110.31	-71.00	-4,407.29	6,776.40	6,840.96	6,660.59	180.38	37.926		
11,000.00	7,806.93	5,503.00	5,503.00	81.38	110.31	-71.00	-4,407.29	6,776.40	6,838.64	6,656.61	182.03	37.569		
11,100.00	7,806.93	5,503.00	5,503.00	83.05	110.31	-71.00	-4,407.29	6,776.40	6,837.78	6,654.10	183.68	37.227		
11,108.86	7,806.93	5,503.00	5,503.00	83.19	110.31	-71.00	-4,407.29	6,776.40	6,837.77	6,653.95	183.82	37.198 CC		
11,200.00	7,806.93	5,503.00	5,503.00	84.72	110.31	-71.00	-4,407.29	6,776.40	6,838.38	6,653.06	185.32	36.901 ES		
11,300.00	7,806.92	5,503.00	5,503.00	86.39	110.31	-71.00	-4,407.29	6,776.40	6,840.44	6,653.50	186.95	36.590		
11,400.00	7,806.92	5,503.00	5,503.00	88.07	110.31	-71.00	-4,407.29	6,776.40	6,843.97	6,655.40	188.57	36.294		
11,500.00	7,806.92	5,503.00	5,503.00	89.75	110.31	-71.00	-4,407.29	6,776.40	6,848.95	6,658.77	190.18	36.013		
11,600.00	7,806.92	5,503.00	5,503.00	91.44	110.31	-71.00	-4,407.29	6,776.40	6,855.39	6,663.62	191.77	35.747		
11,700.00	7,806.91	5,503.00	5,503.00	93.13	110.31	-71.00	-4,407.29	6,776.40	6,863.28	6,669.92	193.36	35.495		
11,800.00	7,806.91	5,503.00	5,503.00	94.82	110.31	-71.00	-4,407.29	6,776.40	6,872.61	6,677.69	194.92	35.258		
11,900.00	7,806.91	5,503.00	5,503.00	96.52	110.31	-71.00	-4,407.29	6,776.40	6,883.39	6,686.91	196.48	35.034		
12,000.00	7,806.91	5,503.00	5,503.00	98.21	110.31	-71.00	-4,407.29	6,776.40	6,895.60	6,697.59	198.01	34.825		
12,100.00	7,806.90	5,503.00	5,503.00	99.91	110.31	-71.00	-4,407.29	6,776.40	6,909.23	6,709.71	199.53	34.628		
12,200.00	7,806.90	5,503.00	5,503.00	101.62	110.31	-71.00	-4,407.29	6,776.40	6,924.29	6,723.27	201.02	34.446		
12,300.00	7,806.90	5,503.00	5,503.00	103.32	110.31	-71.00	-4,407.29	6,776.40	6,940.75	6,738.25	202.50	34.276		
12,400.00	7,806.90	5,503.00	5,503.00	105.03	110.31	-71.00	-4,407.29	6,776.40	6,958.61	6,754.65	203.95	34.119		
12,500.00	7,806.89	5,503.00	5,503.00	106.74	110.31	-71.00	-4,407.29	6,776.40	6,977.85	6,772.47	205.39	33.974		
12,600.00	7,806.89	5,503.00	5,503.00	108.45	110.31	-71.00	-4,407.29	6,776.40	6,998.48	6,791.68	206.80	33.842		
12,700.00	7,806.89	5,503.00	5,503.00	110.17	110.31	-71.00	-4,407.29	6,776.40	7,020.46	6,812.28	208.19	33.722		
12,800.00	7,806.89	5,503.00	5,503.00	111.88	110.31	-71.00	-4,407.29	6,776.40	7,043.80	6,834.25	209.55	33.614		
12,900.00	7,806.88	5,503.00	5,503.00	113.60	110.31	-71.00	-4,407.29	6,776.40	7,068.48	6,857.59	210.89	33.517		
13,000.00	7,806.88	5,503.00	5,503.00	115.32	110.31	-71.00	-4,407.29	6,776.40	7,094.47	6,882.27	212.21	33.432		
13,100.00	7,806.88	5,503.00	5,503.00	117.04	110.31	-71.00	-4,407.29	6,776.40	7,121.78	6,908.29	213.50	33.358		
13,200.00	7,806.88	5,503.00	5,503.00	118.76	110.31	-71.00	-4,407.29	6,776.40	7,150.39	6,935.62	214.76	33.295		
13,300.00	7,806.87	5,503.00	5,503.00	120.48	110.31	-71.00	-4,407.29	6,776.40	7,180.27	6,964.27	216.00	33.242		
13,400.00	7,806.87	5,503.00	5,503.00	122.21	110.31	-71.00	-4,407.29	6,776.40	7,211.41	6,994.20	217.22	33.199		
13,500.00	7,806.87	5,503.00	5,503.00	123.94	110.31	-71.00	-4,407.29	6,776.40	7,243.81	7,025.40	218.40	33.167		
13,600.00	7,806.87	5,503.00	5,503.00	125.66	110.31	-71.00	-4,407.29	6,776.40	7,277.43	7,057.86	219.56	33.145		
13,700.00	7,806.86	5,503.00	5,503.00	127.39	110.31	-71.00	-4,407.29	6,776.40	7,312.26	7,091.56	220.70	33.132		
13,800.00	7,806.86	5,503.00	5,503.00	129.12	110.31	-71.00	-4,407.29	6,776.40	7,348.29	7,126.48	221.81	33.129 SF		
13,900.00	7,806.86	5,503.00	5,503.00	130.85	110.31	-71.00	-4,407.29	6,776.40	7,385.50	7,162.61	222.89	33.135		

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-20-3N
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-20-3N	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	7,806.86	5,503.00	5,503.00	132.59	110.31	-71.00	-4,407.29	6,776.40	7,423.87	7,199.92	223.95	33.150		
14,100.00	7,806.85	5,503.00	5,503.00	134.32	110.31	-71.00	-4,407.29	6,776.40	7,463.38	7,238.40	224.98	33.173		
14,200.00	7,806.85	5,503.00	5,503.00	136.06	110.31	-71.00	-4,407.29	6,776.40	7,504.02	7,278.03	225.99	33.206		
14,300.00	7,806.85	5,503.00	5,503.00	137.79	110.31	-71.00	-4,407.29	6,776.40	7,545.76	7,318.80	226.97	33.246		
14,400.00	7,806.85	5,503.00	5,503.00	139.53	110.31	-71.00	-4,407.29	6,776.40	7,588.59	7,360.68	227.92	33.295		
14,500.00	7,806.84	5,503.00	5,503.00	141.27	110.31	-71.00	-4,407.29	6,776.40	7,632.50	7,403.65	228.85	33.352		
14,600.00	7,806.84	5,503.00	5,503.00	143.00	110.31	-71.00	-4,407.29	6,776.40	7,677.45	7,447.70	229.75	33.416		
14,700.00	7,806.84	5,503.00	5,503.00	144.74	110.31	-71.00	-4,407.29	6,776.40	7,723.44	7,492.81	230.63	33.489		
14,800.00	7,806.84	5,503.00	5,503.00	146.48	110.31	-71.00	-4,407.29	6,776.40	7,770.44	7,538.95	231.48	33.568		
14,900.00	7,806.83	5,503.00	5,503.00	148.22	110.31	-71.00	-4,407.29	6,776.40	7,818.43	7,586.12	232.31	33.655		
15,000.00	7,806.83	5,503.00	5,503.00	149.97	110.31	-71.00	-4,407.29	6,776.40	7,867.41	7,634.29	233.12	33.748		
15,100.00	7,806.83	5,503.00	5,503.00	151.71	110.31	-71.00	-4,407.29	6,776.40	7,917.35	7,683.44	233.90	33.849		
15,200.00	7,806.83	5,503.00	5,503.00	153.45	110.31	-71.00	-4,407.29	6,776.40	7,968.22	7,733.56	234.66	33.956		
15,300.00	7,806.82	5,503.00	5,503.00	155.19	110.31	-71.00	-4,407.29	6,776.40	8,020.03	7,784.63	235.40	34.070		
15,400.00	7,806.82	5,503.00	5,503.00	156.94	110.31	-71.00	-4,407.29	6,776.40	8,072.74	7,836.62	236.11	34.190		
15,500.00	7,806.82	5,503.00	5,503.00	158.68	110.31	-71.00	-4,407.29	6,776.40	8,126.33	7,889.52	236.81	34.316		
15,600.00	7,806.82	5,503.00	5,503.00	160.43	110.31	-71.00	-4,407.29	6,776.40	8,180.80	7,943.32	237.48	34.448		
15,700.00	7,806.81	5,503.00	5,503.00	162.18	110.31	-71.00	-4,407.29	6,776.40	8,236.12	7,997.99	238.13	34.586		
15,800.00	7,806.81	5,503.00	5,503.00	163.92	110.31	-71.00	-4,407.29	6,776.40	8,292.28	8,053.52	238.76	34.730		
15,900.00	7,806.81	5,503.00	5,503.00	165.67	110.31	-71.00	-4,407.29	6,776.40	8,349.26	8,109.89	239.37	34.880		
16,000.00	7,806.81	5,503.00	5,503.00	167.42	110.31	-71.00	-4,407.29	6,776.40	8,407.05	8,167.08	239.96	35.035		
16,100.00	7,806.80	5,503.00	5,503.00	169.17	110.31	-71.00	-4,407.29	6,776.40	8,465.62	8,225.08	240.54	35.195		
16,200.00	7,806.80	5,503.00	5,503.00	170.91	110.31	-71.00	-4,407.29	6,776.40	8,524.96	8,283.87	241.09	35.360		
16,300.00	7,806.80	5,503.00	5,503.00	172.66	110.31	-71.00	-4,407.29	6,776.40	8,585.05	8,343.43	241.62	35.530		
16,400.00	7,806.80	5,503.00	5,503.00	174.41	110.31	-71.00	-4,407.29	6,776.40	8,645.89	8,403.74	242.14	35.706		
16,500.00	7,806.79	5,503.00	5,503.00	176.16	110.31	-71.00	-4,407.29	6,776.40	8,707.44	8,464.80	242.64	35.886		
16,600.00	7,806.79	5,503.00	5,503.00	177.92	110.31	-71.00	-4,407.29	6,776.40	8,769.71	8,526.58	243.13	36.071		
16,700.00	7,806.79	5,503.00	5,503.00	179.67	110.31	-71.00	-4,407.29	6,776.40	8,832.67	8,589.07	243.59	36.260		
16,800.00	7,806.79	5,503.00	5,503.00	181.42	110.31	-71.00	-4,407.29	6,776.40	8,896.31	8,652.26	244.05	36.454		
16,900.00	7,806.78	5,503.00	5,503.00	183.17	110.31	-71.00	-4,407.29	6,776.40	8,960.61	8,716.13	244.48	36.652		
17,000.00	7,806.78	5,503.00	5,503.00	184.92	110.31	-71.00	-4,407.29	6,776.40	9,025.56	8,780.66	244.90	36.854		
17,100.00	7,806.78	5,503.00	5,503.00	186.68	110.31	-71.00	-4,407.29	6,776.40	9,091.15	8,845.84	245.31	37.060		
17,200.00	7,806.78	5,503.00	5,503.00	188.43	110.31	-71.00	-4,407.29	6,776.40	9,157.36	8,911.66	245.70	37.270		
17,300.00	7,806.77	5,503.00	5,503.00	190.18	110.31	-71.00	-4,407.29	6,776.40	9,224.17	8,978.10	246.08	37.485		
17,400.00	7,806.77	5,503.00	5,503.00	191.94	110.31	-71.00	-4,407.29	6,776.40	9,291.59	9,045.15	246.44	37.703		
17,500.00	7,806.77	5,503.00	5,503.00	193.69	110.31	-71.00	-4,407.29	6,776.40	9,359.59	9,112.79	246.79	37.925		
17,600.00	7,806.77	5,503.00	5,503.00	195.45	110.31	-71.00	-4,407.29	6,776.40	9,428.15	9,181.02	247.13	38.150		
17,700.00	7,806.76	5,503.00	5,503.00	197.20	110.31	-71.00	-4,407.29	6,776.40	9,497.28	9,249.82	247.46	38.379		
17,800.00	7,806.76	5,503.00	5,503.00	198.96	110.31	-71.00	-4,407.29	6,776.40	9,566.95	9,319.17	247.78	38.611		
17,877.44	7,807.00	5,503.00	5,503.00	200.32	110.31	-71.00	-4,407.29	6,776.40	9,621.28	9,373.27	248.01	38.794		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	129.23	-5,395.24	6,607.18	8,530.79					
100.00	100.00	4.00	-4.00	0.13	0.05	129.23	-5,395.24	6,607.18	8,530.15	8,529.97	0.18	N/A		
200.00	200.00	104.00	96.00	0.49	1.29	129.23	-5,395.24	6,607.18	8,530.15	8,528.37	1.78	4,784.945		
300.00	300.00	204.00	196.00	0.85	3.57	129.23	-5,395.24	6,607.18	8,530.15	8,525.73	4.42	1,928.862		
400.00	400.00	304.00	296.00	1.21	5.65	129.23	-5,395.24	6,607.18	8,530.15	8,523.30	6.86	1,243.876		
500.00	500.00	404.00	396.00	1.57	7.69	129.23	-5,395.24	6,607.18	8,530.15	8,520.90	9.26	921.396		
600.00	600.00	504.00	496.00	1.93	9.72	129.23	-5,395.24	6,607.18	8,530.15	8,518.51	11.65	732.508		
700.00	700.00	604.00	596.00	2.29	11.74	129.23	-5,395.24	6,607.18	8,530.15	8,516.13	14.03	608.157		
800.00	800.00	704.00	696.00	2.64	13.76	129.23	-5,395.24	6,607.18	8,530.15	8,513.75	16.40	520.007		
900.00	900.00	804.00	796.00	3.00	15.78	129.23	-5,395.24	6,607.18	8,530.15	8,511.37	18.78	454.227		
1,000.00	1,000.00	904.00	896.00	3.36	17.79	129.23	-5,395.24	6,607.18	8,530.15	8,509.00	21.15	403.248		
1,100.00	1,100.00	1,004.00	996.00	3.72	19.81	129.23	-5,395.24	6,607.18	8,530.15	8,506.63	23.53	362.571		
1,200.00	1,200.00	1,104.00	1,096.00	4.08	21.82	129.23	-5,395.24	6,607.18	8,530.15	8,504.26	25.90	329.358		
1,300.00	1,300.00	1,204.00	1,196.00	4.44	23.84	129.23	-5,395.24	6,607.18	8,530.15	8,501.88	28.27	301.725		
1,400.00	1,400.00	1,304.00	1,296.00	4.79	25.85	129.23	-5,395.24	6,607.18	8,530.15	8,499.51	30.64	278.373		
1,500.00	1,499.98	1,404.02	1,395.98	5.14	27.86	-34.55	-5,395.24	6,607.18	8,528.72	8,495.72	33.00	258.472		
1,600.00	1,599.84	1,504.16	1,495.84	5.46	29.88	-34.62	-5,395.24	6,607.18	8,524.41	8,489.07	35.34	241.221		
1,700.00	1,699.45	1,604.55	1,595.45	5.80	31.90	-34.73	-5,395.24	6,607.18	8,517.23	8,479.54	37.69	225.983		
1,800.00	1,798.70	1,705.30	1,694.70	6.14	33.92	-34.89	-5,395.24	6,607.18	8,507.20	8,467.15	40.05	212.398		
1,900.00	1,897.47	1,806.53	1,793.47	6.49	35.96	-35.10	-5,395.24	6,607.18	8,494.33	8,451.90	42.43	200.187		
1,969.08	1,965.35	1,861.35	1,861.35	6.75	37.06	-35.27	-5,395.24	6,607.18	8,483.80	8,440.02	43.78	193.801		
2,000.00	1,995.66	1,908.34	1,891.66	6.86	38.01	-35.30	-5,395.24	6,607.18	8,478.79	8,433.95	44.83	189.130		
2,100.00	2,093.69	1,989.69	1,989.69	7.25	39.65	-35.37	-5,395.24	6,607.18	8,462.58	8,415.76	46.82	180.743		
2,200.00	2,191.72	2,087.72	2,087.72	7.65	41.62	-35.45	-5,395.24	6,607.18	8,446.39	8,397.24	49.15	171.834		
2,300.00	2,289.76	2,185.76	2,185.76	8.07	43.59	-35.53	-5,395.24	6,607.18	8,430.22	8,378.72	51.49	163.714		
2,400.00	2,387.79	2,283.79	2,283.79	8.49	45.56	-35.61	-5,395.24	6,607.18	8,414.06	8,360.22	53.84	156.284		
2,500.00	2,485.82	2,381.82	2,381.82	8.91	47.53	-35.68	-5,395.24	6,607.18	8,397.91	8,341.72	56.19	149.462		
2,600.00	2,583.86	2,479.86	2,479.86	9.35	49.51	-35.76	-5,395.24	6,607.18	8,381.78	8,323.24	58.54	143.177		
2,700.00	2,681.89	2,577.89	2,577.89	9.79	51.48	-35.84	-5,395.24	6,607.18	8,365.67	8,304.77	60.90	137.371		
2,800.00	2,779.92	2,675.92	2,675.92	10.24	53.45	-35.92	-5,395.24	6,607.18	8,349.57	8,286.31	63.26	131.990		
2,900.00	2,877.96	2,773.96	2,773.96	10.69	55.42	-36.00	-5,395.24	6,607.18	8,333.49	8,267.87	65.62	126.991		
3,000.00	2,975.99	2,871.99	2,871.99	11.14	57.39	-36.08	-5,395.24	6,607.18	8,317.42	8,249.44	67.99	122.335		
3,100.00	3,074.02	2,970.02	2,970.02	11.60	59.37	-36.16	-5,395.24	6,607.18	8,301.37	8,231.02	70.36	117.989		
3,200.00	3,172.06	3,068.06	3,068.06	12.06	61.34	-36.24	-5,395.24	6,607.18	8,285.34	8,212.61	72.73	113.922		
3,300.00	3,270.09	3,166.09	3,166.09	12.52	63.31	-36.32	-5,395.24	6,607.18	8,269.32	8,194.22	75.10	110.109		
3,400.00	3,368.12	3,264.12	3,264.12	12.98	65.28	-36.40	-5,395.24	6,607.18	8,253.32	8,175.84	77.48	106.528		
3,500.00	3,466.16	3,362.16	3,362.16	13.45	67.25	-36.48	-5,395.24	6,607.18	8,237.33	8,157.48	79.85	103.157		
3,600.00	3,564.19	3,460.19	3,460.19	13.92	69.22	-36.56	-5,395.24	6,607.18	8,221.36	8,139.13	82.23	99.980		
3,700.00	3,662.23	3,558.23	3,558.23	14.39	71.20	-36.64	-5,395.24	6,607.18	8,205.41	8,120.80	84.61	96.979		
3,800.00	3,760.26	3,656.26	3,656.26	14.86	73.17	-36.72	-5,395.24	6,607.18	8,189.47	8,102.48	86.99	94.142		
3,900.00	3,858.29	3,754.29	3,754.29	15.34	75.14	-36.81	-5,395.24	6,607.18	8,173.55	8,084.18	89.37	91.454		
4,000.00	3,956.33	3,852.33	3,852.33	15.81	77.11	-36.89	-5,395.24	6,607.18	8,157.65	8,065.89	91.76	88.905		
4,100.00	4,054.36	3,950.36	3,950.36	16.29	79.08	-36.97	-5,395.24	6,607.18	8,141.76	8,047.62	94.14	86.484		
4,200.00	4,152.39	4,048.39	4,048.39	16.77	81.05	-37.05	-5,395.24	6,607.18	8,125.89	8,029.36	96.53	84.182		
4,300.00	4,250.43	4,146.43	4,146.43	17.25	83.03	-37.14	-5,395.24	6,607.18	8,110.04	8,011.12	98.91	81.991		
4,400.00	4,348.46	4,244.46	4,244.46	17.73	85.00	-37.22	-5,395.24	6,607.18	8,094.20	7,992.90	101.30	79.902		
4,500.00	4,446.49	4,342.49	4,342.49	18.21	86.97	-37.31	-5,395.24	6,607.18	8,078.38	7,974.69	103.69	77.909		
4,600.00	4,544.53	4,440.53	4,440.53	18.69	88.94	-37.39	-5,395.24	6,607.18	8,062.58	7,956.50	106.08	76.005		
4,700.00	4,642.56	4,538.56	4,538.56	19.17	90.91	-37.47	-5,395.24	6,607.18	8,046.79	7,938.32	108.47	74.184		
4,800.00	4,740.59	4,636.59	4,636.59	19.65	92.88	-37.56	-5,395.24	6,607.18	8,031.03	7,920.16	110.86	72.442		
4,900.00	4,838.63	4,734.63	4,734.63	20.13	94.85	-37.64	-5,395.24	6,607.18	8,015.28	7,902.02	113.25	70.772		
5,000.00	4,936.66	4,832.66	4,832.66	20.62	96.83	-37.73	-5,395.24	6,607.18	7,999.55	7,883.90	115.65	69.172		

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-20-3N
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-20-3N	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	5,034.69	4,930.69	4,930.69	21.10	98.80	-37.82	-5,395.24	6,607.18	7,983.83	7,865.79	118.04	67.636		
5,200.00	5,132.73	5,028.73	5,028.73	21.59	100.77	-37.90	-5,395.24	6,607.18	7,968.14	7,847.70	120.44	66.161		
5,300.00	5,230.76	5,126.76	5,126.76	22.07	102.74	-37.99	-5,395.24	6,607.18	7,952.46	7,829.63	122.83	64.743		
5,400.00	5,328.79	5,224.79	5,224.79	22.56	104.71	-38.08	-5,395.24	6,607.18	7,936.80	7,811.57	125.23	63.380		
5,500.00	5,426.83	5,322.83	5,322.83	23.04	106.68	-38.16	-5,395.24	6,607.18	7,921.16	7,793.53	127.62	62.067		
5,600.00	5,524.86	5,420.86	5,420.86	23.53	108.66	-38.25	-5,395.24	6,607.18	7,905.53	7,775.51	130.02	60.802		
5,700.00	5,622.89	5,518.89	5,518.89	24.02	110.63	-38.34	-5,395.24	6,607.18	7,889.93	7,757.51	132.42	59.583		
5,800.00	5,720.93	5,616.93	5,616.93	24.50	112.60	-38.43	-5,395.24	6,607.18	7,874.34	7,739.52	134.82	58.408		
5,900.00	5,818.96	5,714.96	5,714.96	24.99	114.57	-38.52	-5,395.24	6,607.18	7,858.77	7,721.56	137.22	57.273		
6,000.00	5,916.99	5,812.99	5,812.99	25.48	116.54	-38.61	-5,395.24	6,607.18	7,843.22	7,703.61	139.62	56.177		
6,100.00	6,015.03	5,911.03	5,911.03	25.97	118.51	-38.70	-5,395.24	6,607.18	7,827.69	7,685.68	142.02	55.118		
6,200.00	6,113.06	6,009.06	6,009.06	26.45	120.48	-38.79	-5,395.24	6,607.18	7,812.18	7,667.76	144.42	54.094		
6,300.00	6,211.09	6,107.09	6,107.09	26.94	122.46	-38.88	-5,395.24	6,607.18	7,796.69	7,649.87	146.82	53.104		
6,400.00	6,309.13	6,205.13	6,205.13	27.43	124.43	-38.97	-5,395.24	6,607.18	7,781.22	7,631.99	149.22	52.145		
6,500.00	6,407.16	6,303.16	6,303.16	27.92	126.40	-39.06	-5,395.24	6,607.18	7,765.76	7,614.14	151.62	51.217		
6,600.00	6,505.19	6,401.19	6,401.19	28.41	128.37	-39.15	-5,395.24	6,607.18	7,750.33	7,596.30	154.03	50.318		
6,664.73	6,568.65	6,464.65	6,464.65	28.73	129.65	-39.21	-5,395.24	6,607.18	7,740.35	7,584.76	155.58	49.750		
6,700.00	6,603.27	6,500.73	6,499.27	28.90	130.37	-39.17	-5,395.24	6,607.18	7,735.08	7,578.62	156.46	49.438		
6,800.00	6,701.84	6,602.16	6,597.84	29.36	132.41	-39.08	-5,395.24	6,607.18	7,721.97	7,563.05	158.92	48.591		
6,900.00	6,800.94	6,703.06	6,696.94	29.78	134.44	-39.01	-5,395.24	6,607.18	7,711.56	7,550.21	161.34	47.796		
7,000.00	6,900.45	6,803.55	6,796.45	30.17	136.46	-38.96	-5,395.24	6,607.18	7,703.85	7,540.11	163.74	47.049		
7,100.00	7,000.24	6,903.77	6,896.24	30.53	138.48	-38.93	-5,395.24	6,607.18	7,698.86	7,532.75	166.11	46.348		
7,200.00	7,100.19	7,003.81	6,996.19	30.85	140.49	-38.91	-5,395.24	6,607.18	7,696.59	7,528.13	168.46	45.688		
7,233.81	7,134.00	7,030.00	7,030.00	30.95	141.02	124.84	-5,395.24	6,607.18	7,696.43	7,527.34	169.09	45.517		
7,300.00	7,200.19	7,103.81	7,096.19	31.12	142.50	124.84	-5,395.24	6,607.18	7,696.43	7,525.66	170.77	45.070		
7,333.81	7,234.00	7,130.00	7,130.00	31.21	143.03	124.84	-5,395.24	6,607.18	7,696.43	7,525.04	171.39	44.905		
7,350.00	7,250.18	7,146.18	7,146.18	31.26	143.35	-54.83	-5,395.24	6,607.18	7,696.30	7,524.53	171.77	44.806		
7,400.00	7,300.04	7,203.96	7,196.04	31.44	144.51	-55.02	-5,395.24	6,607.18	7,694.23	7,521.12	173.12	44.446		
7,450.00	7,349.39	7,245.39	7,245.39	31.66	145.35	-55.44	-5,395.24	6,607.18	7,689.67	7,515.51	174.16	44.152		
7,500.00	7,397.87	7,306.13	7,293.87	31.92	146.57	-56.10	-5,395.24	6,607.18	7,682.67	7,507.04	175.63	43.744		
7,550.00	7,445.09	7,341.09	7,341.09	32.22	147.27	-57.00	-5,395.24	6,607.18	7,673.28	7,496.68	176.60	43.450		
7,600.00	7,490.72	7,386.72	7,386.72	32.55	148.19	-58.13	-5,395.24	6,607.18	7,661.60	7,483.79	177.81	43.088		
7,650.00	7,534.38	7,430.38	7,430.38	32.92	149.07	-59.51	-5,395.24	6,607.18	7,647.74	7,468.73	179.01	42.723		
7,700.00	7,575.77	7,471.77	7,471.77	33.32	149.90	-61.12	-5,395.24	6,607.18	7,631.83	7,451.65	180.18	42.357		
7,750.00	7,614.55	7,510.55	7,510.55	33.75	150.68	-62.98	-5,395.24	6,607.18	7,614.02	7,432.70	181.32	41.992		
7,800.00	7,650.43	7,546.43	7,546.43	34.22	151.40	-65.08	-5,395.24	6,607.18	7,594.47	7,412.04	182.43	41.630		
7,850.00	7,683.15	7,579.15	7,579.15	34.71	152.06	-67.40	-5,395.24	6,607.18	7,573.36	7,389.87	183.49	41.275		
7,900.00	7,712.45	7,608.45	7,608.45	35.23	152.65	-69.93	-5,395.24	6,607.18	7,550.88	7,366.38	184.50	40.927		
7,950.00	7,738.11	7,634.11	7,634.11	35.78	153.16	-72.65	-5,395.24	6,607.18	7,527.23	7,341.78	185.45	40.589		
8,000.00	7,759.93	7,655.93	7,655.93	36.35	153.60	-75.53	-5,395.24	6,607.18	7,502.63	7,316.28	186.35	40.262		
8,050.00	7,777.75	7,673.75	7,673.75	36.93	153.96	-78.54	-5,395.24	6,607.18	7,477.28	7,290.10	187.17	39.949		
8,100.00	7,791.43	7,687.43	7,687.43	37.53	154.24	-81.64	-5,395.24	6,607.18	7,451.40	7,263.47	187.93	39.650		
8,150.00	7,800.87	7,703.13	7,696.87	38.14	154.55	-84.77	-5,395.24	6,607.18	7,425.20	7,236.46	188.74	39.341		
8,200.00	7,806.00	7,702.00	7,702.00	38.76	154.53	-87.90	-5,395.24	6,607.18	7,398.90	7,209.68	189.22	39.103		
8,233.89	7,807.00	7,703.00	7,703.00	39.18	154.55	-90.00	-5,395.24	6,607.18	7,381.12	7,191.54	189.58	38.934		
8,300.00	7,807.00	7,703.00	7,703.00	40.00	154.55	-90.00	-5,395.24	6,607.18	7,346.75	7,156.49	190.26	38.614		
8,400.00	7,807.00	7,703.00	7,703.00	41.29	154.55	-90.00	-5,395.24	6,607.18	7,295.58	7,104.23	191.35	38.126		
8,500.00	7,806.99	7,702.99	7,702.99	42.60	154.55	-90.00	-5,395.24	6,607.18	7,245.44	7,052.93	192.51	37.637		
8,600.00	7,806.99	7,702.99	7,702.99	43.95	154.55	-90.00	-5,395.24	6,607.18	7,196.34	7,002.61	193.72	37.147		
8,700.00	7,806.99	7,702.99	7,702.99	45.33	154.55	-90.00	-5,395.24	6,607.18	7,148.29	6,953.30	195.00	36.659		
8,800.00	7,806.99	7,702.99	7,702.99	46.74	154.55	-90.00	-5,395.24	6,607.18	7,101.34	6,905.01	196.32	36.172		
8,900.00	7,806.98	7,702.98	7,702.98	48.17	154.55	-90.00	-5,395.24	6,607.18	7,055.48	6,857.78	197.70	35.688		

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-20-3N
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-20-3N	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	7,806.98	7,702.98	7,702.98	49.62	154.55	-90.00	-5,395.24	6,607.18	7,010.75	6,811.63	199.13	35.208		
9,100.00	7,806.98	7,702.98	7,702.98	51.09	154.55	-90.00	-5,395.24	6,607.18	6,967.17	6,766.58	200.60	34.732		
9,200.00	7,806.98	7,702.98	7,702.98	52.59	154.55	-90.00	-5,395.24	6,607.18	6,924.77	6,722.65	202.11	34.262		
9,300.00	7,806.97	7,702.97	7,702.97	54.09	154.55	-90.00	-5,395.24	6,607.18	6,883.55	6,679.88	203.67	33.798		
9,400.00	7,806.97	7,702.97	7,702.97	55.62	154.55	-90.00	-5,395.24	6,607.18	6,843.54	6,638.28	205.26	33.341		
9,500.00	7,806.97	7,702.97	7,702.97	57.16	154.55	-90.00	-5,395.24	6,607.18	6,804.77	6,597.89	206.89	32.891		
9,600.00	7,806.97	7,702.97	7,702.97	58.71	154.55	-90.00	-5,395.24	6,607.18	6,767.26	6,558.71	208.55	32.449		
9,700.00	7,806.96	7,702.96	7,702.96	60.27	154.55	-90.00	-5,395.24	6,607.18	6,731.02	6,520.78	210.24	32.016		
9,800.00	7,806.96	7,702.96	7,702.96	61.84	154.55	-90.00	-5,395.24	6,607.18	6,696.08	6,484.12	211.96	31.591		
9,900.00	7,806.96	7,702.96	7,702.96	63.43	154.55	-90.00	-5,395.24	6,607.18	6,662.46	6,448.75	213.71	31.176		
10,000.00	7,806.96	7,702.96	7,702.96	65.02	154.55	-90.00	-5,395.24	6,607.18	6,630.17	6,414.70	215.48	30.770		
10,100.00	7,806.95	7,702.95	7,702.95	66.63	154.55	-90.00	-5,395.24	6,607.18	6,599.25	6,381.98	217.27	30.374		
10,200.00	7,806.95	7,702.95	7,702.95	68.24	154.55	-90.00	-5,395.24	6,607.18	6,569.70	6,350.62	219.08	29.988		
10,300.00	7,806.95	7,702.95	7,702.95	69.86	154.55	-90.00	-5,395.24	6,607.18	6,541.54	6,320.64	220.91	29.612		
10,400.00	7,806.95	7,702.95	7,702.95	71.49	154.55	-90.00	-5,395.24	6,607.18	6,514.80	6,292.05	222.75	29.247		
10,500.00	7,806.94	7,702.94	7,702.94	73.12	154.55	-90.00	-5,395.24	6,607.18	6,489.49	6,264.88	224.60	28.893		
10,600.00	7,806.94	7,702.94	7,702.94	74.76	154.55	-90.00	-5,395.24	6,607.18	6,465.63	6,239.16	226.47	28.550		
10,700.00	7,806.94	7,702.94	7,702.94	76.41	154.55	-90.00	-5,395.24	6,607.18	6,443.23	6,214.88	228.35	28.217		
10,800.00	7,806.94	7,702.94	7,702.94	78.06	154.55	-90.00	-5,395.24	6,607.18	6,422.31	6,192.08	230.23	27.896		
10,900.00	7,806.93	7,702.93	7,702.93	79.72	154.55	-90.00	-5,395.24	6,607.18	6,402.88	6,170.77	232.11	27.585		
11,000.00	7,806.93	7,702.93	7,702.93	81.38	154.55	-90.00	-5,395.24	6,607.18	6,384.96	6,150.96	234.00	27.286		
11,100.00	7,806.93	7,702.93	7,702.93	83.05	154.55	-90.00	-5,395.24	6,607.18	6,368.56	6,132.67	235.89	26.998		
11,200.00	7,806.93	7,702.93	7,702.93	84.72	154.55	-90.00	-5,395.24	6,607.18	6,353.69	6,115.92	237.78	26.721		
11,300.00	7,806.92	7,702.92	7,702.92	86.39	154.55	-90.00	-5,395.24	6,607.18	6,340.37	6,100.71	239.66	26.456		
11,400.00	7,806.92	7,702.92	7,702.92	88.07	154.55	-90.00	-5,395.24	6,607.18	6,328.60	6,087.06	241.54	26.201		
11,500.00	7,806.92	7,702.92	7,702.92	89.75	154.55	-90.00	-5,395.24	6,607.18	6,318.39	6,074.98	243.41	25.958		
11,600.00	7,806.92	7,702.92	7,702.92	91.44	154.55	-90.00	-5,395.24	6,607.18	6,309.74	6,064.48	245.27	25.726		
11,700.00	7,806.91	7,702.91	7,702.91	93.13	154.55	-90.00	-5,395.24	6,607.18	6,302.67	6,055.56	247.11	25.505		
11,800.00	7,806.91	7,702.91	7,702.91	94.82	154.55	-90.00	-5,395.24	6,607.18	6,297.19	6,048.24	248.95	25.295		
11,900.00	7,806.91	7,702.91	7,702.91	96.52	154.55	-90.00	-5,395.24	6,607.18	6,293.28	6,042.51	250.77	25.096		
12,000.00	7,806.91	7,702.91	7,702.91	98.21	154.55	-90.00	-5,395.24	6,607.18	6,290.97	6,038.40	252.57	24.908		
12,095.74	7,806.90	7,702.90	7,702.90	99.84	154.55	-90.00	-5,395.24	6,607.18	6,290.24	6,035.96	254.28	24.738 CC		
12,100.00	7,806.90	7,702.90	7,702.90	99.91	154.55	-90.00	-5,395.24	6,607.18	6,290.24	6,035.89	254.35	24.730		
12,200.00	7,806.90	7,702.90	7,702.90	101.62	154.55	-90.00	-5,395.24	6,607.18	6,291.10	6,034.98	256.12	24.563 ES		
12,300.00	7,806.90	7,702.90	7,702.90	103.32	154.55	-90.00	-5,395.24	6,607.18	6,293.55	6,035.69	257.86	24.407		
12,400.00	7,806.90	7,702.90	7,702.90	105.03	154.55	-90.00	-5,395.24	6,607.18	6,297.59	6,038.01	259.58	24.261		
12,500.00	7,806.89	7,702.89	7,702.89	106.74	154.55	-90.00	-5,395.24	6,607.18	6,303.22	6,041.94	261.27	24.125		
12,600.00	7,806.89	7,702.89	7,702.89	108.45	154.55	-90.00	-5,395.24	6,607.18	6,310.42	6,047.48	262.94	23.999		
12,700.00	7,806.89	7,702.89	7,702.89	110.17	154.55	-90.00	-5,395.24	6,607.18	6,319.20	6,054.61	264.58	23.884		
12,800.00	7,806.89	7,702.89	7,702.89	111.88	154.55	-90.00	-5,395.24	6,607.18	6,329.54	6,063.35	266.19	23.778		
12,900.00	7,806.88	7,702.88	7,702.88	113.60	154.55	-90.00	-5,395.24	6,607.18	6,341.45	6,073.67	267.78	23.682		
13,000.00	7,806.88	7,702.88	7,702.88	115.32	154.55	-90.00	-5,395.24	6,607.18	6,354.90	6,085.57	269.33	23.595		
13,100.00	7,806.88	7,702.88	7,702.88	117.04	154.55	-90.00	-5,395.24	6,607.18	6,369.90	6,099.05	270.85	23.518		
13,200.00	7,806.88	7,702.88	7,702.88	118.76	154.55	-90.00	-5,395.24	6,607.18	6,386.43	6,114.09	272.34	23.450		
13,300.00	7,806.87	7,702.87	7,702.87	120.48	154.55	-90.00	-5,395.24	6,607.18	6,404.48	6,130.69	273.79	23.392		
13,400.00	7,806.87	7,702.87	7,702.87	122.21	154.55	-90.00	-5,395.24	6,607.18	6,424.03	6,148.82	275.21	23.342		
13,500.00	7,806.87	7,702.87	7,702.87	123.94	154.55	-90.00	-5,395.24	6,607.18	6,445.08	6,168.48	276.60	23.301		
13,600.00	7,806.87	7,702.87	7,702.87	125.66	154.55	-90.00	-5,395.24	6,607.18	6,467.60	6,189.65	277.96	23.268		
13,700.00	7,806.86	7,702.86	7,702.86	127.39	154.55	-90.00	-5,395.24	6,607.18	6,491.59	6,212.32	279.28	23.244		
13,800.00	7,806.86	7,702.86	7,702.86	129.12	154.55	-90.00	-5,395.24	6,607.18	6,517.02	6,236.47	280.56	23.229		
13,900.00	7,806.86	7,702.86	7,702.86	130.85	154.55	-90.00	-5,395.24	6,607.18	6,543.89	6,262.08	281.81	23.221 SF		
14,000.00	7,806.86	7,702.86	7,702.86	132.59	154.55	-90.00	-5,395.24	6,607.18	6,572.16	6,289.14	283.02	23.222		

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-20-3N
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-20-3N	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	7,806.85	7,702.85	7,702.85	134.32	154.55	-90.00	-5,395.24	6,607.18	6,601.83	6,317.63	284.20	23.230		
14,200.00	7,806.85	7,702.85	7,702.85	136.06	154.55	-90.00	-5,395.24	6,607.18	6,632.87	6,347.54	285.34	23.246		
14,300.00	7,806.85	7,702.85	7,702.85	137.79	154.55	-90.00	-5,395.24	6,607.18	6,665.27	6,378.83	286.45	23.269		
14,400.00	7,806.85	7,702.85	7,702.85	139.53	154.55	-90.00	-5,395.24	6,607.18	6,699.01	6,411.49	287.52	23.300		
14,500.00	7,806.84	7,702.84	7,702.84	141.27	154.55	-90.00	-5,395.24	6,607.18	6,734.06	6,445.51	288.55	23.337		
14,600.00	7,806.84	7,702.84	7,702.84	143.00	154.55	-90.00	-5,395.24	6,607.18	6,770.41	6,480.85	289.55	23.382		
14,700.00	7,806.84	7,702.84	7,702.84	144.74	154.55	-90.00	-5,395.24	6,607.18	6,808.03	6,517.51	290.52	23.434		
14,800.00	7,806.84	7,702.84	7,702.84	146.48	154.55	-90.00	-5,395.24	6,607.18	6,846.91	6,555.45	291.46	23.492		
14,900.00	7,806.83	7,702.83	7,702.83	148.22	154.55	-90.00	-5,395.24	6,607.18	6,887.02	6,594.66	292.36	23.557		
15,000.00	7,806.83	7,702.83	7,702.83	149.97	154.55	-90.00	-5,395.24	6,607.18	6,928.34	6,635.11	293.22	23.628		
15,100.00	7,806.83	7,702.83	7,702.83	151.71	154.55	-90.00	-5,395.24	6,607.18	6,970.85	6,676.79	294.06	23.706		
15,200.00	7,806.83	7,702.83	7,702.83	153.45	154.55	-90.00	-5,395.24	6,607.18	7,014.52	6,719.66	294.86	23.789		
15,300.00	7,806.82	7,702.82	7,702.82	155.19	154.55	-90.00	-5,395.24	6,607.18	7,059.35	6,763.72	295.63	23.879		
15,400.00	7,806.82	7,702.82	7,702.82	156.94	154.55	-90.00	-5,395.24	6,607.18	7,105.30	6,808.92	296.37	23.974		
15,500.00	7,806.82	7,702.82	7,702.82	158.68	154.55	-90.00	-5,395.24	6,607.18	7,152.35	6,855.26	297.09	24.075		
15,600.00	7,806.82	7,702.82	7,702.82	160.43	154.55	-90.00	-5,395.24	6,607.18	7,200.48	6,902.72	297.77	24.182		
15,700.00	7,806.81	7,702.81	7,702.81	162.18	154.55	-90.00	-5,395.24	6,607.18	7,249.68	6,951.26	298.42	24.294		
15,800.00	7,806.81	7,702.81	7,702.81	163.92	154.55	-90.00	-5,395.24	6,607.18	7,299.91	7,000.86	299.05	24.411		
15,900.00	7,806.81	7,702.81	7,702.81	165.67	154.55	-90.00	-5,395.24	6,607.18	7,351.16	7,051.51	299.64	24.533		
16,000.00	7,806.81	7,702.81	7,702.81	167.42	154.55	-90.00	-5,395.24	6,607.18	7,403.40	7,103.19	300.22	24.660		
16,100.00	7,806.80	7,702.80	7,702.80	169.17	154.55	-90.00	-5,395.24	6,607.18	7,456.62	7,155.86	300.76	24.793		
16,200.00	7,806.80	7,702.80	7,702.80	170.91	154.55	-90.00	-5,395.24	6,607.18	7,510.80	7,209.52	301.28	24.930		
16,300.00	7,806.80	7,702.80	7,702.80	172.66	154.55	-90.00	-5,395.24	6,607.18	7,565.91	7,264.13	301.78	25.071		
16,400.00	7,806.80	7,702.80	7,702.80	174.41	154.55	-90.00	-5,395.24	6,607.18	7,621.93	7,319.68	302.25	25.217		
16,500.00	7,806.79	7,702.79	7,702.79	176.16	154.55	-90.00	-5,395.24	6,607.18	7,678.84	7,376.14	302.70	25.368		
16,600.00	7,806.79	7,702.79	7,702.79	177.92	154.55	-90.00	-5,395.24	6,607.18	7,736.63	7,433.51	303.13	25.523		
16,700.00	7,806.79	7,702.79	7,702.79	179.67	154.55	-90.00	-5,395.24	6,607.18	7,795.28	7,491.74	303.53	25.682		
16,800.00	7,806.79	7,702.79	7,702.79	181.42	154.55	-90.00	-5,395.24	6,607.18	7,854.76	7,550.84	303.92	25.845		
16,900.00	7,806.78	7,702.78	7,702.78	183.17	154.55	-90.00	-5,395.24	6,607.18	7,915.05	7,610.77	304.28	26.012		
17,000.00	7,806.78	7,702.78	7,702.78	184.92	154.55	-90.00	-5,395.24	6,607.18	7,976.15	7,671.52	304.63	26.183		
17,100.00	7,806.78	7,702.78	7,702.78	186.68	154.55	-90.00	-5,395.24	6,607.18	8,038.02	7,733.06	304.96	26.358		
17,200.00	7,806.78	7,702.78	7,702.78	188.43	154.55	-90.00	-5,395.24	6,607.18	8,100.65	7,795.39	305.27	26.536		
17,300.00	7,806.77	7,702.77	7,702.77	190.18	154.54	-90.00	-5,395.24	6,607.18	8,164.03	7,858.48	305.56	26.718		
17,400.00	7,806.77	7,702.77	7,702.77	191.94	154.54	-90.00	-5,395.24	6,607.18	8,228.14	7,922.31	305.83	26.904		
17,500.00	7,806.77	7,702.77	7,702.77	193.69	154.54	-90.00	-5,395.24	6,607.18	8,292.96	7,986.87	306.09	27.093		
17,600.00	7,806.77	7,702.77	7,702.77	195.45	154.54	-90.00	-5,395.24	6,607.18	8,358.47	8,052.14	306.33	27.285		
17,700.00	7,806.76	7,702.76	7,702.76	197.20	154.54	-90.00	-5,395.24	6,607.18	8,424.66	8,118.10	306.56	27.481		
17,800.00	7,806.76	7,702.76	7,702.76	198.96	154.54	-90.00	-5,395.24	6,607.18	8,491.51	8,184.73	306.78	27.680		
17,877.44	7,807.00	7,703.00	7,703.00	200.32	154.55	-90.00	-5,395.24	6,607.18	8,543.67	8,236.73	306.94	27.835		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	107.06	-1,738.16	5,665.08	5,926.09					
100.00	100.00	35.00	35.00	0.13	0.42	107.06	-1,738.16	5,665.08	5,925.73	5,925.18	0.55	N/A		
200.00	200.00	135.00	135.00	0.49	2.00	107.06	-1,738.16	5,665.08	5,925.73	5,923.24	2.49	2,377.426		
300.00	300.00	235.00	235.00	0.85	4.22	107.06	-1,738.16	5,665.08	5,925.73	5,920.67	5.07	1,169.555		
400.00	400.00	335.00	335.00	1.21	6.28	107.06	-1,738.16	5,665.08	5,925.73	5,918.24	7.49	791.068		
500.00	500.00	435.00	435.00	1.57	8.32	107.06	-1,738.16	5,665.08	5,925.73	5,915.85	9.89	599.354		
600.00	600.00	535.00	535.00	1.93	10.35	107.06	-1,738.16	5,665.08	5,925.73	5,913.46	12.27	482.858		
700.00	700.00	635.00	635.00	2.29	12.37	107.06	-1,738.16	5,665.08	5,925.73	5,911.08	14.65	404.425		
800.00	800.00	735.00	735.00	2.64	14.39	107.06	-1,738.16	5,665.08	5,925.73	5,908.70	17.03	347.974		
900.00	900.00	835.00	835.00	3.00	16.40	107.06	-1,738.16	5,665.08	5,925.73	5,906.33	19.40	305.382		
1,000.00	1,000.00	935.00	935.00	3.36	18.42	107.06	-1,738.16	5,665.08	5,925.73	5,903.95	21.78	272.094		
1,100.00	1,100.00	1,035.00	1,035.00	3.72	20.43	107.06	-1,738.16	5,665.08	5,925.73	5,901.58	24.15	245.360		
1,200.00	1,200.00	1,135.00	1,135.00	4.08	22.45	107.06	-1,738.16	5,665.08	5,925.73	5,899.21	26.52	223.414		
1,300.00	1,300.00	1,235.00	1,235.00	4.44	24.46	107.06	-1,738.16	5,665.08	5,925.73	5,896.84	28.90	205.075		
1,400.00	1,400.00	1,335.00	1,335.00	4.79	26.47	107.06	-1,738.16	5,665.08	5,925.73	5,894.47	31.27	189.521		
1,500.00	1,499.98	1,434.98	1,434.98	5.14	28.48	-56.73	-1,738.16	5,665.08	5,924.77	5,891.15	33.62	176.230		
1,600.00	1,599.84	1,534.84	1,534.84	5.46	30.49	-56.82	-1,738.16	5,665.08	5,921.90	5,885.95	35.96	164.703		
1,700.00	1,699.45	1,634.45	1,634.45	5.80	32.50	-56.97	-1,738.16	5,665.08	5,917.13	5,878.84	38.29	154.530		
1,800.00	1,798.70	1,733.70	1,733.70	6.14	34.50	-57.18	-1,738.16	5,665.08	5,910.47	5,869.84	40.63	145.481		
1,900.00	1,897.47	1,832.47	1,832.47	6.49	36.48	-57.45	-1,738.16	5,665.08	5,901.95	5,858.99	42.96	137.371		
1,969.08	1,965.35	1,900.35	1,900.35	6.75	37.85	-57.67	-1,738.16	5,665.08	5,894.99	5,850.41	44.58	132.239		
2,000.00	1,995.66	1,930.66	1,930.66	6.86	38.46	-57.72	-1,738.16	5,665.08	5,891.68	5,846.38	45.30	130.055		
2,100.00	2,093.69	2,028.69	2,028.69	7.25	40.43	-57.88	-1,738.16	5,665.08	5,881.02	5,833.37	47.65	123.428		
2,200.00	2,191.72	2,126.72	2,126.72	7.65	42.40	-58.05	-1,738.16	5,665.08	5,870.40	5,820.40	50.00	117.399		
2,300.00	2,289.76	2,224.76	2,224.76	8.07	44.37	-58.21	-1,738.16	5,665.08	5,859.83	5,807.46	52.37	111.895		
2,400.00	2,387.79	2,322.79	2,322.79	8.49	46.35	-58.37	-1,738.16	5,665.08	5,849.31	5,794.57	54.74	106.853		
2,500.00	2,485.82	2,420.82	2,420.82	8.91	48.32	-58.53	-1,738.16	5,665.08	5,838.83	5,781.71	57.12	102.217		
2,600.00	2,583.86	2,518.86	2,518.86	9.35	50.29	-58.69	-1,738.16	5,665.08	5,828.41	5,768.90	59.51	97.944		
2,700.00	2,681.89	2,616.89	2,616.89	9.79	52.26	-58.86	-1,738.16	5,665.08	5,818.03	5,756.13	61.90	93.993		
2,800.00	2,779.92	2,714.92	2,714.92	10.24	54.23	-59.02	-1,738.16	5,665.08	5,807.70	5,743.40	64.29	90.329		
2,900.00	2,877.96	2,812.96	2,812.96	10.69	56.21	-59.19	-1,738.16	5,665.08	5,797.42	5,730.72	66.69	86.925		
3,000.00	2,975.99	2,910.99	2,910.99	11.14	58.18	-59.35	-1,738.16	5,665.08	5,787.18	5,718.08	69.10	83.752		
3,100.00	3,074.02	3,009.02	3,009.02	11.60	60.15	-59.52	-1,738.16	5,665.08	5,777.00	5,705.49	71.51	80.790		
3,200.00	3,172.06	3,107.06	3,107.06	12.06	62.12	-59.68	-1,738.16	5,665.08	5,766.87	5,692.95	73.92	78.019		
3,300.00	3,270.09	3,205.09	3,205.09	12.52	64.09	-59.85	-1,738.16	5,665.08	5,756.78	5,680.45	76.33	75.420		
3,400.00	3,368.12	3,303.12	3,303.12	12.98	66.07	-60.02	-1,738.16	5,665.08	5,746.75	5,668.00	78.75	72.978		
3,500.00	3,466.16	3,401.16	3,401.16	13.45	68.04	-60.19	-1,738.16	5,665.08	5,736.76	5,655.60	81.16	70.681		
3,600.00	3,564.19	3,500.81	3,499.19	13.92	70.04	-60.36	-1,738.16	5,665.08	5,726.83	5,643.21	83.62	68.489		
3,700.00	3,662.23	3,602.78	3,597.23	14.39	72.09	-60.53	-1,738.16	5,665.08	5,716.95	5,630.83	86.12	66.384		
3,800.00	3,760.26	3,704.74	3,695.26	14.86	74.14	-60.70	-1,738.16	5,665.08	5,707.12	5,618.50	88.62	64.398		
3,900.00	3,858.29	3,806.71	3,793.29	15.34	76.19	-60.87	-1,738.16	5,665.08	5,697.34	5,606.21	91.13	62.520		
4,000.00	3,956.33	3,908.67	3,891.33	15.81	78.24	-61.04	-1,738.16	5,665.08	5,687.61	5,593.98	93.64	60.742		
4,100.00	4,054.36	3,989.36	3,989.36	16.29	79.87	-61.21	-1,738.16	5,665.08	5,677.94	5,582.22	95.72	59.320		
4,200.00	4,152.39	4,087.39	4,087.39	16.77	81.84	-61.38	-1,738.16	5,665.08	5,668.31	5,570.16	98.15	57.753		
4,300.00	4,250.43	4,185.43	4,185.43	17.25	83.81	-61.55	-1,738.16	5,665.08	5,658.74	5,558.16	100.58	56.261		
4,400.00	4,348.46	4,283.46	4,283.46	17.73	85.78	-61.73	-1,738.16	5,665.08	5,649.22	5,546.21	103.01	54.839		
4,500.00	4,446.49	4,381.49	4,381.49	18.21	87.75	-61.90	-1,738.16	5,665.08	5,639.76	5,534.31	105.45	53.483		
4,600.00	4,544.53	4,479.53	4,479.53	18.69	89.72	-62.08	-1,738.16	5,665.08	5,630.34	5,522.46	107.89	52.188		
4,700.00	4,642.56	4,577.56	4,577.56	19.17	91.70	-62.25	-1,738.16	5,665.08	5,620.99	5,510.66	110.32	50.950		
4,800.00	4,740.59	4,675.59	4,675.59	19.65	93.67	-62.43	-1,738.16	5,665.08	5,611.68	5,498.92	112.76	49.765		
4,900.00	4,838.63	4,773.63	4,773.63	20.13	95.64	-62.60	-1,738.16	5,665.08	5,602.43	5,487.23	115.20	48.631		
5,000.00	4,936.66	4,871.66	4,871.66	20.62	97.61	-62.78	-1,738.16	5,665.08	5,593.23	5,475.59	117.64	47.544		

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-20-3N
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-20-3N	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	5,034.69	4,969.69	4,969.69	21.10	99.58	-62.96	-1,738.16	5,665.08	5,584.09	5,464.00	120.09	46.501		
5,200.00	5,132.73	5,067.73	5,067.73	21.59	101.55	-63.13	-1,738.16	5,665.08	5,575.00	5,452.47	122.53	45.500		
5,300.00	5,230.76	5,145.00	5,145.00	22.07	103.10	-63.27	-1,738.16	5,665.08	5,566.01	5,441.46	124.55	44.687		
5,400.00	5,328.79	5,145.00	5,145.00	22.56	103.10	-63.27	-1,738.16	5,665.08	5,558.26	5,433.25	125.02	44.460		
5,500.00	5,426.83	5,145.00	5,145.00	23.04	103.10	-63.27	-1,738.16	5,665.08	5,552.31	5,426.87	125.44	44.262		
5,600.00	5,524.86	5,145.00	5,145.00	23.53	103.10	-63.27	-1,738.16	5,665.08	5,548.15	5,422.32	125.83	44.092		
5,700.00	5,622.89	5,145.00	5,145.00	24.02	103.10	-63.27	-1,738.16	5,665.08	5,545.79	5,419.61	126.18	43.951		
5,780.83	5,702.13	5,145.00	5,145.00	24.41	103.10	-63.27	-1,738.16	5,665.08	5,545.20	5,418.77	126.44	43.857 CC		
5,800.00	5,720.93	5,145.00	5,145.00	24.50	103.10	-63.27	-1,738.16	5,665.08	5,545.24	5,418.74	126.49	43.838 ES		
5,900.00	5,818.96	5,145.00	5,145.00	24.99	103.10	-63.27	-1,738.16	5,665.08	5,546.48	5,419.72	126.77	43.753		
6,000.00	5,916.99	5,145.00	5,145.00	25.48	103.10	-63.27	-1,738.16	5,665.08	5,549.53	5,422.53	127.00	43.696		
6,100.00	6,015.03	5,145.00	5,145.00	25.97	103.10	-63.27	-1,738.16	5,665.08	5,554.38	5,427.18	127.20	43.667		
6,200.00	6,113.06	5,145.00	5,145.00	26.45	103.10	-63.27	-1,738.16	5,665.08	5,561.02	5,433.67	127.35	43.666		
6,300.00	6,211.09	5,145.00	5,145.00	26.94	103.10	-63.27	-1,738.16	5,665.08	5,569.45	5,441.98	127.47	43.691		
6,400.00	6,309.13	5,145.00	5,145.00	27.43	103.10	-63.27	-1,738.16	5,665.08	5,579.66	5,452.11	127.55	43.744		
6,500.00	6,407.16	5,145.00	5,145.00	27.92	103.10	-63.27	-1,738.16	5,665.08	5,591.64	5,464.05	127.60	43.823		
6,600.00	6,505.19	5,145.00	5,145.00	28.41	103.10	-63.27	-1,738.16	5,665.08	5,605.38	5,477.78	127.60	43.929		
6,664.73	6,568.65	5,145.00	5,145.00	28.73	103.10	-63.27	-1,738.16	5,665.08	5,615.21	5,487.62	127.58	44.012		
6,700.00	6,603.27	5,145.00	5,145.00	28.90	103.10	-63.38	-1,738.16	5,665.08	5,620.96	5,493.40	127.57	44.063		
6,800.00	6,701.84	5,145.00	5,145.00	29.36	103.10	-63.72	-1,738.16	5,665.08	5,639.49	5,512.01	127.47	44.241		
6,900.00	6,800.94	5,145.00	5,145.00	29.78	103.10	-64.12	-1,738.16	5,665.08	5,661.23	5,533.91	127.31	44.468		
7,000.00	6,900.45	5,145.00	5,145.00	30.17	103.10	-64.58	-1,738.16	5,665.08	5,686.12	5,559.03	127.08	44.743		
7,100.00	7,000.24	5,145.00	5,145.00	30.53	103.10	-65.11	-1,738.16	5,665.08	5,714.09	5,587.29	126.79	45.066		
7,200.00	7,100.19	5,145.00	5,145.00	30.85	103.10	-65.70	-1,738.16	5,665.08	5,745.06	5,618.61	126.45	45.434		
7,233.81	7,134.00	5,145.00	5,145.00	30.95	103.10	97.84	-1,738.16	5,665.08	5,756.19	5,629.88	126.31	45.571		
7,300.00	7,200.19	5,145.00	5,145.00	31.12	103.10	97.84	-1,738.16	5,665.08	5,778.65	5,652.62	126.03	45.852		
7,333.81	7,234.00	5,145.00	5,145.00	31.21	103.10	97.84	-1,738.16	5,665.08	5,790.39	5,664.50	125.88	45.999		
7,350.00	7,250.18	5,145.00	5,145.00	31.26	103.10	-81.22	-1,738.16	5,665.08	5,796.03	5,670.22	125.81	46.069		
7,400.00	7,300.04	5,145.00	5,145.00	31.44	103.10	-79.41	-1,738.16	5,665.08	5,813.29	5,687.66	125.63	46.273		
7,450.00	7,349.39	5,145.00	5,145.00	31.66	103.10	-77.65	-1,738.16	5,665.08	5,830.18	5,704.70	125.48	46.463		
7,500.00	7,397.87	5,145.00	5,145.00	31.92	103.10	-75.96	-1,738.16	5,665.08	5,846.57	5,721.20	125.36	46.636		
7,550.00	7,445.09	5,145.00	5,145.00	32.22	103.10	-74.35	-1,738.16	5,665.08	5,862.34	5,737.05	125.29	46.791		
7,600.00	7,490.72	5,145.00	5,145.00	32.55	103.10	-72.84	-1,738.16	5,665.08	5,877.38	5,752.13	125.25	46.925		
7,650.00	7,534.38	5,145.00	5,145.00	32.92	103.10	-71.43	-1,738.16	5,665.08	5,891.57	5,766.32	125.25	47.037		
7,700.00	7,575.77	5,145.00	5,145.00	33.32	103.10	-70.14	-1,738.16	5,665.08	5,904.83	5,779.53	125.30	47.126		
7,750.00	7,614.55	5,145.00	5,145.00	33.75	103.10	-68.95	-1,738.16	5,665.08	5,917.04	5,791.65	125.39	47.189		
7,800.00	7,650.43	5,145.00	5,145.00	34.22	103.10	-67.90	-1,738.16	5,665.08	5,928.13	5,802.61	125.53	47.225		
7,850.00	7,683.15	5,145.00	5,145.00	34.71	103.10	-66.97	-1,738.16	5,665.08	5,938.03	5,812.31	125.72	47.234		
7,900.00	7,712.45	5,145.00	5,145.00	35.23	103.10	-66.16	-1,738.16	5,665.08	5,946.65	5,820.70	125.95	47.214		
7,950.00	7,738.11	5,145.00	5,145.00	35.78	103.10	-65.49	-1,738.16	5,665.08	5,953.94	5,827.70	126.24	47.165		
8,000.00	7,759.93	5,145.00	5,145.00	36.35	103.10	-64.95	-1,738.16	5,665.08	5,959.85	5,833.28	126.57	47.086		
8,050.00	7,777.75	5,145.00	5,145.00	36.93	103.10	-64.54	-1,738.16	5,665.08	5,964.34	5,837.38	126.96	46.979		
8,100.00	7,791.43	5,145.00	5,145.00	37.53	103.10	-64.27	-1,738.16	5,665.08	5,967.38	5,839.98	127.39	46.843		
8,150.00	7,800.87	5,145.00	5,145.00	38.14	103.10	-64.13	-1,738.16	5,665.08	5,968.94	5,841.07	127.87	46.679		
8,200.00	7,806.00	5,145.00	5,145.00	38.76	103.10	-64.12	-1,738.16	5,665.08	5,969.02	5,840.62	128.39	46.490		
8,233.89	7,807.00	5,145.00	5,145.00	39.18	103.10	-64.19	-1,738.16	5,665.08	5,968.23	5,839.45	128.77	46.347		
8,300.00	7,807.00	5,145.00	5,145.00	40.00	103.10	-64.19	-1,738.16	5,665.08	5,966.38	5,836.85	129.54	46.059		
8,400.00	7,807.00	5,145.00	5,145.00	41.29	103.10	-64.19	-1,738.16	5,665.08	5,964.99	5,834.26	130.73	45.628		
8,433.19	7,807.00	5,145.00	5,145.00	41.72	103.10	-64.19	-1,738.16	5,665.08	5,964.90	5,833.76	131.14	45.485		
8,500.00	7,806.99	5,145.00	5,145.00	42.60	103.10	-64.19	-1,738.16	5,665.08	5,965.27	5,833.31	131.96	45.204		
8,600.00	7,806.99	5,145.00	5,145.00	43.95	103.10	-64.19	-1,738.16	5,665.08	5,967.23	5,834.00	133.23	44.789		
8,700.00	7,806.99	5,145.00	5,145.00	45.33	103.10	-64.19	-1,738.16	5,665.08	5,970.86	5,836.34	134.52	44.385		

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-20-3N
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-20-3N	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	46.74	103.10	-64.19	-1,738.16	5,665.08	5,976.17	5,840.32	135.84	43.993		
8,900.00	7,806.98	5,145.00	5,145.00	48.17	103.10	-64.19	-1,738.16	5,665.08	5,983.14	5,845.95	137.18	43.614		
9,000.00	7,806.98	5,145.00	5,145.00	49.62	103.10	-64.19	-1,738.16	5,665.08	5,991.77	5,853.23	138.54	43.250		
9,100.00	7,806.98	5,145.00	5,145.00	51.09	103.10	-64.19	-1,738.16	5,665.08	6,002.05	5,862.15	139.91	42.900		
9,200.00	7,806.98	5,145.00	5,145.00	52.59	103.10	-64.19	-1,738.16	5,665.08	6,013.98	5,872.70	141.29	42.566		
9,300.00	7,806.97	5,145.00	5,145.00	54.09	103.10	-64.19	-1,738.16	5,665.08	6,027.55	5,884.88	142.67	42.248		
9,400.00	7,806.97	5,145.00	5,145.00	55.62	103.10	-64.19	-1,738.16	5,665.08	6,042.74	5,898.68	144.06	41.946		
9,500.00	7,806.97	5,145.00	5,145.00	57.16	103.10	-64.19	-1,738.16	5,665.08	6,059.55	5,914.10	145.45	41.661		
9,600.00	7,806.97	5,145.00	5,145.00	58.71	103.10	-64.19	-1,738.16	5,665.08	6,077.95	5,931.11	146.84	41.392		
9,700.00	7,806.96	5,145.00	5,145.00	60.27	103.10	-64.19	-1,738.16	5,665.08	6,097.94	5,949.71	148.23	41.140		
9,800.00	7,806.96	5,145.00	5,145.00	61.84	103.10	-64.19	-1,738.16	5,665.08	6,119.49	5,969.89	149.61	40.904		
9,900.00	7,806.96	5,145.00	5,145.00	63.43	103.10	-64.19	-1,738.16	5,665.08	6,142.60	5,991.62	150.98	40.685		
10,000.00	7,806.96	5,145.00	5,145.00	65.02	103.10	-64.19	-1,738.16	5,665.08	6,167.25	6,014.90	152.34	40.483		
10,100.00	7,806.95	5,145.00	5,145.00	66.63	103.10	-64.19	-1,738.16	5,665.08	6,193.41	6,039.71	153.69	40.297		
10,200.00	7,806.95	5,145.00	5,145.00	68.24	103.10	-64.19	-1,738.16	5,665.08	6,221.06	6,066.03	155.03	40.127		
10,300.00	7,806.95	5,145.00	5,145.00	69.86	103.10	-64.19	-1,738.16	5,665.08	6,250.20	6,093.84	156.36	39.973		
10,400.00	7,806.95	5,145.00	5,145.00	71.49	103.10	-64.19	-1,738.16	5,665.08	6,280.79	6,123.12	157.67	39.834		
10,500.00	7,806.94	5,145.00	5,145.00	73.12	103.10	-64.19	-1,738.16	5,665.08	6,312.82	6,153.85	158.97	39.711		
10,600.00	7,806.94	5,145.00	5,145.00	74.76	103.10	-64.19	-1,738.16	5,665.08	6,346.27	6,186.02	160.25	39.603		
10,700.00	7,806.94	5,145.00	5,145.00	76.41	103.10	-64.19	-1,738.16	5,665.08	6,381.10	6,219.59	161.51	39.510		
10,800.00	7,806.94	5,145.00	5,145.00	78.06	103.10	-64.19	-1,738.16	5,665.08	6,417.31	6,254.56	162.75	39.431		
10,900.00	7,806.93	5,145.00	5,145.00	79.72	103.10	-64.19	-1,738.16	5,665.08	6,454.86	6,290.89	163.97	39.366		
11,000.00	7,806.93	5,145.00	5,145.00	81.38	103.10	-64.19	-1,738.16	5,665.08	6,493.73	6,328.56	165.17	39.315		
11,100.00	7,806.93	5,145.00	5,145.00	83.05	103.10	-64.19	-1,738.16	5,665.08	6,533.90	6,367.55	166.35	39.278		
11,200.00	7,806.93	5,145.00	5,145.00	84.72	103.10	-64.19	-1,738.16	5,665.08	6,575.35	6,407.84	167.51	39.253		
11,300.00	7,806.92	5,145.00	5,145.00	86.39	103.10	-64.19	-1,738.16	5,665.08	6,618.05	6,449.40	168.65	39.242 SF		
11,400.00	7,806.92	5,145.00	5,145.00	88.07	103.10	-64.19	-1,738.16	5,665.08	6,661.98	6,492.22	169.76	39.242		
11,500.00	7,806.92	5,145.00	5,145.00	89.75	103.10	-64.19	-1,738.16	5,665.08	6,707.11	6,536.25	170.86	39.255		
11,600.00	7,806.92	5,145.00	5,145.00	91.44	103.10	-64.19	-1,738.16	5,665.08	6,753.42	6,581.49	171.93	39.280		
11,700.00	7,806.91	5,145.00	5,145.00	93.13	103.10	-64.19	-1,738.16	5,665.08	6,800.89	6,627.91	172.98	39.316		
11,800.00	7,806.91	5,145.00	5,145.00	94.82	103.10	-64.19	-1,738.16	5,665.08	6,849.49	6,675.48	174.01	39.364		
11,900.00	7,806.91	5,145.00	5,145.00	96.52	103.10	-64.19	-1,738.16	5,665.08	6,899.19	6,724.18	175.01	39.422		
12,000.00	7,806.91	5,145.00	5,145.00	98.21	103.10	-64.19	-1,738.16	5,665.08	6,949.98	6,773.98	175.99	39.490		
12,100.00	7,806.90	5,145.00	5,145.00	99.91	103.10	-64.19	-1,738.16	5,665.08	7,001.82	6,824.87	176.95	39.569		
12,200.00	7,806.90	5,145.00	5,145.00	101.62	103.10	-64.19	-1,738.16	5,665.08	7,054.71	6,876.82	177.89	39.658		
12,300.00	7,806.90	5,145.00	5,145.00	103.32	103.10	-64.19	-1,738.16	5,665.08	7,108.60	6,929.80	178.80	39.756		
12,400.00	7,806.90	5,145.00	5,145.00	105.03	103.10	-64.19	-1,738.16	5,665.08	7,163.49	6,983.79	179.70	39.864		
12,500.00	7,806.89	5,145.00	5,145.00	106.74	103.10	-64.19	-1,738.16	5,665.08	7,219.35	7,038.78	180.57	39.981		
12,600.00	7,806.89	5,145.00	5,145.00	108.45	103.10	-64.19	-1,738.16	5,665.08	7,276.15	7,094.73	181.42	40.107		
12,700.00	7,806.89	5,145.00	5,145.00	110.17	103.10	-64.19	-1,738.16	5,665.08	7,333.87	7,151.62	182.25	40.241		
12,800.00	7,806.89	5,145.00	5,145.00	111.88	103.10	-64.19	-1,738.16	5,665.08	7,392.50	7,209.44	183.06	40.383		
12,900.00	7,806.88	5,145.00	5,145.00	113.60	103.10	-64.19	-1,738.16	5,665.08	7,452.01	7,268.16	183.85	40.534		
13,000.00	7,806.88	5,145.00	5,145.00	115.32	103.10	-64.19	-1,738.16	5,665.08	7,512.38	7,327.76	184.62	40.692		
13,100.00	7,806.88	5,145.00	5,145.00	117.04	103.10	-64.19	-1,738.16	5,665.08	7,573.58	7,388.22	185.37	40.858		
13,200.00	7,806.88	5,145.00	5,145.00	118.76	103.10	-64.19	-1,738.16	5,665.08	7,635.61	7,449.51	186.09	41.031		
13,300.00	7,806.87	5,145.00	5,145.00	120.48	103.10	-64.19	-1,738.16	5,665.08	7,698.43	7,511.63	186.81	41.211		
13,400.00	7,806.87	5,145.00	5,145.00	122.21	103.10	-64.19	-1,738.16	5,665.08	7,762.04	7,574.54	187.50	41.398		
13,500.00	7,806.87	5,145.00	5,145.00	123.94	103.10	-64.19	-1,738.16	5,665.08	7,826.41	7,638.23	188.17	41.592		
13,600.00	7,806.87	5,145.00	5,145.00	125.66	103.10	-64.19	-1,738.16	5,665.08	7,891.51	7,702.69	188.83	41.792		
13,700.00	7,806.86	5,145.00	5,145.00	127.39	103.10	-64.19	-1,738.16	5,665.08	7,957.35	7,767.88	189.47	41.999		
13,800.00	7,806.86	5,145.00	5,145.00	129.12	103.10	-64.19	-1,738.16	5,665.08	8,023.88	7,833.80	190.09	42.212		
13,900.00	7,806.86	5,145.00	5,145.00	130.85	103.10	-64.19	-1,738.16	5,665.08	8,091.11	7,900.42	190.69	42.430		

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-20-3N
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-20-3N	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	7,806.86	5,145.00	5,145.00	132.59	103.10	-64.19	-1,738.16	5,665.08	8,159.01	7,967.73	191.28	42.654		
14,100.00	7,806.85	5,145.00	5,145.00	134.32	103.10	-64.19	-1,738.16	5,665.08	8,227.56	8,035.71	191.85	42.884		
14,200.00	7,806.85	5,145.00	5,145.00	136.06	103.10	-64.19	-1,738.16	5,665.08	8,296.76	8,104.34	192.41	43.120		
14,300.00	7,806.85	5,145.00	5,145.00	137.79	103.10	-64.19	-1,738.16	5,665.08	8,366.57	8,173.62	192.96	43.360		
14,400.00	7,806.85	5,145.00	5,145.00	139.53	103.10	-64.19	-1,738.16	5,665.08	8,436.99	8,243.51	193.48	43.606		
14,500.00	7,806.84	5,145.00	5,145.00	141.27	103.10	-64.19	-1,738.16	5,665.08	8,508.01	8,314.01	194.00	43.856		
14,600.00	7,806.84	5,145.00	5,145.00	143.00	103.10	-64.19	-1,738.16	5,665.08	8,579.60	8,385.11	194.50	44.112		
14,700.00	7,806.84	5,145.00	5,145.00	144.74	103.10	-64.19	-1,738.16	5,665.08	8,651.76	8,456.78	194.98	44.372		
14,800.00	7,806.84	5,145.00	5,145.00	146.48	103.10	-64.19	-1,738.16	5,665.08	8,724.47	8,529.01	195.46	44.636		
14,900.00	7,806.83	5,145.00	5,145.00	148.22	103.10	-64.19	-1,738.16	5,665.08	8,797.71	8,601.79	195.92	44.905		
15,000.00	7,806.83	5,145.00	5,145.00	149.97	103.10	-64.19	-1,738.16	5,665.08	8,871.47	8,675.11	196.37	45.178		
15,100.00	7,806.83	5,145.00	5,145.00	151.71	103.10	-64.19	-1,738.16	5,665.08	8,945.75	8,748.95	196.80	45.455		
15,200.00	7,806.83	5,145.00	5,145.00	153.45	103.10	-64.19	-1,738.16	5,665.08	9,020.52	8,823.29	197.23	45.737		
15,300.00	7,806.82	5,145.00	5,145.00	155.19	103.10	-64.19	-1,738.16	5,665.08	9,095.78	8,898.14	197.64	46.022		
15,400.00	7,806.82	5,145.00	5,145.00	156.94	103.10	-64.19	-1,738.16	5,665.08	9,171.51	8,973.46	198.04	46.311		
15,500.00	7,806.82	5,145.00	5,145.00	158.68	103.10	-64.19	-1,738.16	5,665.08	9,247.70	9,049.26	198.43	46.603		
15,600.00	7,806.82	5,145.00	5,145.00	160.43	103.10	-64.19	-1,738.16	5,665.08	9,324.34	9,125.52	198.82	46.899		
15,700.00	7,806.81	5,145.00	5,145.00	162.18	103.10	-64.19	-1,738.16	5,665.08	9,401.41	9,202.23	199.19	47.199		
15,800.00	7,806.81	5,145.00	5,145.00	163.92	103.10	-64.19	-1,738.16	5,665.08	9,478.92	9,279.37	199.55	47.502		
15,900.00	7,806.81	5,145.00	5,145.00	165.67	103.10	-64.19	-1,738.16	5,665.08	9,556.85	9,356.95	199.90	47.808		
16,000.00	7,806.81	5,145.00	5,145.00	167.42	103.10	-64.19	-1,738.16	5,665.08	9,635.18	9,434.94	200.24	48.118		
16,100.00	7,806.80	5,145.00	5,145.00	169.17	103.10	-64.19	-1,738.16	5,665.08	9,713.91	9,513.33	200.58	48.430		
16,200.00	7,806.80	5,145.00	5,145.00	170.91	103.10	-64.19	-1,738.16	5,665.08	9,793.03	9,592.13	200.90	48.745		
16,300.00	7,806.80	5,145.00	5,145.00	172.66	103.10	-64.19	-1,738.16	5,665.08	9,872.53	9,671.31	201.22	49.064		
16,400.00	7,806.80	5,145.00	5,145.00	174.41	103.10	-64.19	-1,738.16	5,665.08	9,952.39	9,750.87	201.53	49.385		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	129.97	-3,970.63	4,736.97	6,181.56					
100.00	100.00	13.24	13.24	0.13	0.02	129.97	-3,970.63	4,736.98	6,181.01	6,180.85	0.15	N/A		
200.00	200.00	92.26	92.25	0.49	0.15	129.97	-3,970.47	4,737.36	6,181.25	6,180.61	0.64	9,698.978		
300.00	300.00	198.47	198.46	0.85	0.53	129.96	-3,970.06	4,738.20	6,181.61	6,180.23	1.38	4,491.286		
400.00	400.00	292.00	291.99	1.21	0.86	129.95	-3,969.47	4,739.04	6,181.89	6,179.82	2.07	2,986.472		
500.00	500.00	500.00	415.59	1.57	1.61	129.94	-3,968.59	4,740.15	6,182.13	6,178.95	3.17	1,948.371		
600.00	600.00	489.95	489.93	1.93	1.57	129.93	-3,968.00	4,740.95	6,182.42	6,178.93	3.50	1,768.388		
700.00	700.00	763.32	763.24	2.29	2.51	129.94	-3,967.51	4,739.16	6,182.41	6,177.61	4.79	1,289.529		
800.00	800.00	908.00	907.54	2.64	3.01	130.02	-3,971.85	4,729.88	6,179.30	6,173.65	5.64	1,095.058		
900.00	900.00	992.11	991.10	3.00	3.30	130.11	-3,977.39	4,722.06	6,176.39	6,170.09	6.30	980.674		
1,000.00	1,000.00	1,117.98	1,116.02	3.36	3.76	130.25	-3,986.21	4,709.44	6,173.20	6,166.08	7.12	867.368		
1,100.00	1,100.00	1,266.56	1,263.30	3.72	4.33	130.42	-3,997.13	4,693.17	6,169.56	6,161.52	8.04	767.286		
1,200.00	1,200.00	1,333.48	1,329.55	4.08	4.60	130.51	-4,002.49	4,685.35	6,165.84	6,157.18	8.66	711.767		
1,300.00	1,300.00	1,471.08	1,465.69	4.44	5.15	130.68	-4,013.68	4,668.84	6,161.95	6,152.38	9.57	643.782		
1,400.00	1,400.00	1,544.06	1,537.86	4.79	5.45	130.78	-4,019.86	4,659.91	6,158.15	6,147.92	10.23	602.083		
1,500.00	1,499.98	1,632.71	1,625.57	5.14	5.82	-32.92	-4,027.36	4,649.39	6,153.20	6,142.27	10.93	562.797		
1,600.00	1,599.84	1,737.91	1,729.61	5.46	6.26	-32.89	-4,036.41	4,636.79	6,145.36	6,133.67	11.70	525.417		
1,700.00	1,699.45	1,827.69	1,818.45	5.80	6.63	-32.93	-4,043.92	4,626.28	6,134.68	6,122.28	12.40	494.688		
1,800.00	1,798.70	1,931.09	1,920.84	6.14	7.06	-33.01	-4,052.27	4,614.43	6,121.10	6,107.93	13.17	464.923		
1,900.00	1,897.47	2,014.08	2,003.06	6.49	7.41	-33.15	-4,058.77	4,605.24	6,104.75	6,090.90	13.85	440.734		
1,969.08	1,965.35	2,076.98	2,065.43	6.75	7.67	-33.28	-4,063.52	4,598.56	6,091.89	6,077.54	14.35	424.511		
2,000.00	1,995.66	2,105.10	2,093.31	6.86	7.79	-33.28	-4,065.60	4,595.63	6,085.84	6,071.27	14.57	417.567		
2,100.00	2,093.69	2,195.45	2,182.90	7.25	8.16	-33.26	-4,072.53	4,586.10	6,066.37	6,051.07	15.30	396.526		
2,200.00	2,191.72	2,336.97	2,323.07	7.65	8.76	-33.23	-4,083.86	4,570.27	6,046.64	6,030.40	16.25	372.189		
2,300.00	2,289.76	2,457.22	2,442.07	8.07	9.27	-33.19	-4,093.34	4,555.92	6,026.27	6,009.15	17.11	352.115		
2,400.00	2,387.79	2,530.38	2,514.50	8.49	9.58	-33.17	-4,099.04	4,547.25	6,005.93	5,988.13	17.79	337.520		
2,500.00	2,485.82	2,592.53	2,575.99	8.91	9.85	-33.15	-4,104.33	4,539.99	5,986.16	5,967.72	18.43	324.748		
2,600.00	2,583.86	2,658.22	2,641.07	9.35	10.13	-33.13	-4,109.86	4,532.86	5,966.94	5,947.85	19.09	312.582		
2,700.00	2,681.89	2,788.01	2,769.79	9.79	10.67	-33.11	-4,119.81	4,519.67	5,947.76	5,927.75	20.01	297.308		
2,800.00	2,779.92	2,860.08	2,841.24	10.24	10.97	-33.10	-4,125.55	4,512.10	5,928.51	5,907.81	20.69	286.507		
2,900.00	2,877.96	2,959.64	2,939.85	10.69	11.39	-33.07	-4,134.13	4,501.37	5,909.48	5,887.98	21.50	274.873		
3,000.00	2,975.99	3,095.25	3,074.16	11.14	11.97	-33.03	-4,145.54	4,486.52	5,890.23	5,867.77	22.46	262.300		
3,100.00	3,074.02	3,217.32	3,194.98	11.60	12.50	-32.99	-4,155.44	4,472.21	5,870.13	5,846.77	23.36	251.281		
3,200.00	3,172.06	3,295.53	3,272.41	12.06	12.83	-32.97	-4,161.69	4,463.22	5,850.19	5,826.10	24.09	242.869		
3,300.00	3,270.09	3,300.00	3,392.86	12.52	12.85	-32.94	-4,171.16	4,449.49	5,830.25	5,805.76	24.49	238.035		
3,400.00	3,368.12	3,509.58	3,484.37	12.98	13.75	-32.91	-4,178.40	4,438.47	5,809.89	5,784.11	25.78	225.355		
3,500.00	3,466.16	3,606.45	3,580.21	13.45	14.17	-32.88	-4,186.58	4,427.00	5,789.97	5,763.38	26.59	217.726		
3,600.00	3,564.19	3,692.82	3,665.73	13.92	14.54	-32.85	-4,193.48	4,417.02	5,769.98	5,742.62	27.36	210.894		
3,700.00	3,662.23	3,756.23	3,728.60	14.39	14.81	-32.84	-4,198.24	4,410.28	5,750.39	5,722.35	28.03	205.126		
3,800.00	3,760.26	3,819.00	3,790.83	14.86	15.07	-32.83	-4,203.37	4,403.95	5,731.54	5,702.83	28.70	199.676		
3,900.00	3,858.29	3,957.60	3,928.14	15.34	15.66	-32.79	-4,215.03	4,389.06	5,712.36	5,682.68	29.68	192.452		
4,000.00	3,956.33	4,039.78	4,009.60	15.81	16.01	-32.77	-4,221.64	4,380.49	5,693.22	5,662.78	30.43	187.072		
4,100.00	4,054.36	4,178.42	4,147.16	16.29	16.59	-32.75	-4,231.83	4,366.60	5,673.99	5,642.59	31.40	180.702		
4,200.00	4,152.39	4,306.84	4,274.39	16.77	17.14	-32.71	-4,241.57	4,352.09	5,653.91	5,621.57	32.33	174.860		
4,300.00	4,250.43	4,386.72	4,353.56	17.25	17.48	-32.69	-4,247.43	4,343.22	5,633.82	5,600.74	33.08	170.310		
4,400.00	4,348.46	4,464.70	4,430.93	17.73	17.80	-32.68	-4,252.87	4,335.11	5,614.02	5,580.21	33.81	166.027		
4,500.00	4,446.49	4,523.68	4,489.46	18.21	18.05	-32.67	-4,257.13	4,329.21	5,594.70	5,560.22	34.48	162.270		
4,600.00	4,544.53	4,581.00	4,546.29	18.69	18.29	-32.66	-4,261.96	4,323.53	5,576.17	5,541.04	35.14	158.704		
4,700.00	4,642.56	4,640.28	4,605.05	19.17	18.54	-32.64	-4,267.38	4,317.86	5,558.36	5,522.55	35.80	155.247		
4,800.00	4,740.59	4,770.19	4,733.88	19.65	19.09	-32.61	-4,279.06	4,305.96	5,540.86	5,504.12	36.75	150.791		
4,900.00	4,838.63	4,910.51	4,873.13	20.13	19.67	-32.59	-4,290.23	4,292.71	5,522.40	5,484.68	37.72	146.401		
5,000.00	4,936.66	5,028.16	4,989.75	20.62	20.17	-32.56	-4,299.78	4,280.46	5,503.33	5,464.71	38.61	142.519		

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-20-3N
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-20-3N	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-MWDD													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	5,034.69	5,131.70	5,092.39	21.10	20.61	-32.54	-4,307.95	4,269.64	5,484.09	5,444.64	39.45	138.996		
5,200.00	5,132.73	5,230.33	5,190.25	21.59	21.02	-32.52	-4,315.30	4,259.80	5,464.91	5,424.64	40.27	135.699		
5,300.00	5,230.76	5,434.66	5,393.01	22.07	21.87	-32.49	-4,327.89	4,237.87	5,443.98	5,402.51	41.47	131.283		
5,400.00	5,328.79	5,529.91	5,487.42	22.56	22.27	-32.47	-4,333.92	4,226.74	5,422.83	5,380.55	42.27	128.283		
5,500.00	5,426.83	5,629.32	5,586.04	23.04	22.69	-32.46	-4,339.58	4,215.67	5,401.66	5,358.57	43.09	125.361		
5,600.00	5,524.86	5,698.59	5,654.81	23.53	22.97	-32.46	-4,343.33	4,208.26	5,380.66	5,336.87	43.80	122.855		
5,700.00	5,622.89	5,756.00	5,711.83	24.02	23.21	-32.45	-4,346.75	4,202.44	5,360.39	5,315.92	44.46	120.559		
5,800.00	5,720.93	5,825.86	5,781.19	24.50	23.50	-32.45	-4,351.39	4,195.53	5,340.74	5,295.56	45.17	118.224		
5,900.00	5,818.96	5,933.02	5,887.49	24.99	23.95	-32.43	-4,359.33	4,184.58	5,321.37	5,275.34	46.03	115.618		
6,000.00	5,916.99	6,024.24	5,977.97	25.48	24.33	-32.41	-4,366.04	4,175.10	5,301.83	5,255.01	46.82	113.243		
6,100.00	6,015.03	6,109.00	6,062.18	25.97	24.68	-32.40	-4,371.53	4,167.21	5,282.51	5,234.93	47.58	111.025		
6,200.00	6,113.06	6,190.81	6,143.60	26.45	25.00	-32.41	-4,376.04	4,160.61	5,263.46	5,215.14	48.32	108.925		
6,300.00	6,211.09	6,271.88	6,224.37	26.94	25.32	-32.43	-4,379.99	4,154.89	5,244.74	5,195.68	49.05	106.915		
6,400.00	6,309.13	6,348.07	6,300.34	27.43	25.61	-32.46	-4,383.42	4,150.10	5,226.34	5,176.57	49.77	105.014		
6,500.00	6,407.16	6,422.00	6,374.05	27.92	25.88	-32.49	-4,387.03	4,145.81	5,208.52	5,158.04	50.47	103.196		
6,600.00	6,505.19	6,481.47	6,433.37	28.41	26.10	-32.51	-4,390.00	4,142.79	5,191.27	5,140.15	51.12	101.542		
6,664.73	6,568.65	6,526.50	6,478.31	28.73	26.27	-32.53	-4,392.05	4,140.94	5,180.42	5,128.85	51.56	100.464		
6,700.00	6,603.27	6,552.18	6,503.97	28.90	26.35	-32.49	-4,393.01	4,140.16	5,174.78	5,122.98	51.80	99.896		
6,800.00	6,701.84	6,629.92	6,581.68	29.36	26.61	-32.40	-4,394.67	4,139.28	5,161.08	5,108.61	52.48	98.353		
6,900.00	6,800.94	6,733.03	6,684.77	29.78	26.94	-32.35	-4,396.15	4,138.94	5,150.48	5,097.29	53.19	96.827		
7,000.00	6,900.45	6,850.46	6,802.21	30.17	27.30	-32.33	-4,396.81	4,139.09	5,142.59	5,088.67	53.92	95.381		
7,100.00	7,000.24	6,956.35	6,908.09	30.53	27.60	-32.31	-4,396.86	4,139.37	5,137.39	5,082.81	54.58	94.126		
7,200.00	7,100.19	7,061.02	7,012.76	30.85	27.92	-32.31	-4,397.02	4,139.41	5,135.05	5,079.81	55.24	92.963		
7,228.12	7,128.31	7,084.94	7,036.68	30.93	28.00	-32.31	-4,397.07	4,139.41	5,134.92	5,079.52	55.40	92.683		
7,233.81	7,134.00	7,089.92	7,041.66	30.95	28.01	131.45	-4,397.09	4,139.41	5,134.92	5,079.49	55.44	92.626		
7,300.00	7,200.19	7,147.79	7,099.53	31.12	28.20	131.45	-4,397.32	4,139.41	5,135.10	5,079.28	55.82	91.993		
7,333.81	7,234.00	7,184.98	7,136.72	31.21	28.31	131.46	-4,397.51	4,139.40	5,135.21	5,079.17	56.04	91.637		
7,350.00	7,250.18	7,203.38	7,155.12	31.26	28.37	-48.21	-4,397.60	4,139.38	5,135.10	5,078.95	56.15	91.455		
7,400.00	7,300.04	7,260.09	7,211.82	31.44	28.55	-48.42	-4,397.87	4,139.27	5,132.79	5,076.28	56.51	90.827		
7,450.00	7,349.39	7,313.95	7,265.69	31.66	28.73	-48.88	-4,398.10	4,139.11	5,127.55	5,070.65	56.90	90.122		
7,500.00	7,397.87	7,367.24	7,318.97	31.92	28.90	-49.61	-4,398.30	4,138.91	5,119.43	5,062.13	57.30	89.341		
7,550.00	7,445.09	7,419.08	7,370.82	32.22	29.07	-50.62	-4,398.45	4,138.69	5,108.51	5,050.79	57.73	88.495		
7,600.00	7,490.72	7,471.32	7,423.05	32.55	29.24	-51.91	-4,398.58	4,138.42	5,094.91	5,036.73	58.17	87.582		
7,650.00	7,534.38	7,522.62	7,474.35	32.92	29.41	-53.51	-4,398.75	4,138.02	5,078.72	5,020.08	58.64	86.614		
7,700.00	7,575.77	7,556.47	7,508.20	33.32	29.52	-55.32	-4,398.90	4,137.70	5,060.16	5,001.10	59.07	85.666		
7,750.00	7,614.55	7,584.54	7,536.27	33.75	29.62	-57.38	-4,399.10	4,137.46	5,039.51	4,980.01	59.50	84.697		
7,800.00	7,650.43	7,610.65	7,562.38	34.22	29.70	-59.74	-4,399.34	4,137.26	5,016.94	4,956.99	59.94	83.695		
7,850.00	7,683.15	7,634.61	7,586.34	34.71	29.78	-62.37	-4,399.62	4,137.09	4,992.64	4,932.25	60.40	82.666		
7,900.00	7,712.45	7,660.00	7,611.72	35.23	29.87	-65.33	-4,399.96	4,136.93	4,966.83	4,905.96	60.87	81.603		
7,950.00	7,738.11	7,676.90	7,628.62	35.78	29.92	-68.48	-4,400.20	4,136.84	4,939.71	4,878.38	61.32	80.550		
8,000.00	7,759.93	7,694.85	7,646.57	36.35	29.98	-71.90	-4,400.43	4,136.79	4,911.51	4,849.71	61.80	79.474		
8,050.00	7,777.75	7,709.56	7,661.27	36.93	30.02	-75.51	-4,400.62	4,136.76	4,882.48	4,820.20	62.28	78.397		
8,100.00	7,791.43	7,720.92	7,672.64	37.53	30.06	-79.25	-4,400.75	4,136.76	4,852.85	4,790.09	62.76	77.325		
8,150.00	7,800.87	7,728.88	7,680.59	38.14	30.09	-83.07	-4,400.84	4,136.77	4,822.88	4,759.64	63.24	76.262		
8,200.00	7,806.00	7,733.38	7,685.10	38.76	30.10	-86.88	-4,400.89	4,136.78	4,792.82	4,729.09	63.72	75.216		
8,233.89	7,807.00	7,734.46	7,686.18	39.18	30.10	-89.43	-4,400.90	4,136.78	4,772.50	4,708.45	64.04	74.519		
8,300.00	7,807.00	7,735.02	7,686.74	40.00	30.11	-89.44	-4,400.90	4,136.78	4,733.28	4,668.59	64.69	73.167		
8,400.00	7,807.00	7,735.86	7,687.57	41.29	30.11	-89.46	-4,400.91	4,136.78	4,675.10	4,609.36	65.74	71.117		
8,500.00	7,806.99	7,736.69	7,688.40	42.60	30.11	-89.47	-4,400.92	4,136.78	4,618.36	4,551.49	66.86	69.071		
8,600.00	7,806.99	7,737.51	7,689.23	43.95	30.11	-89.48	-4,400.93	4,136.79	4,563.10	4,495.03	68.07	67.038		
8,700.00	7,806.99	7,738.33	7,690.05	45.33	30.12	-89.49	-4,400.94	4,136.79	4,509.38	4,440.04	69.34	65.028		
8,800.00	7,806.99	7,739.14	7,690.86	46.74	30.12	-89.50	-4,400.95	4,136.79	4,457.26	4,386.57	70.69	63.050		

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-20-3N
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-20-3N	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		
8,900.00	7,806.98	7,739.94	7,691.66	48.17	30.12	-89.52	-4,400.96	4,136.79	4,406.79	4,334.68	72.11	61.111		
9,000.00	7,806.98	7,740.74	7,692.46	49.62	30.13	-89.53	-4,400.96	4,136.79	4,358.03	4,284.44	73.59	59.219		
9,100.00	7,806.98	7,741.54	7,693.25	51.09	30.13	-89.54	-4,400.97	4,136.80	4,311.04	4,235.91	75.13	57.377		
9,200.00	7,806.98	7,742.32	7,694.04	52.59	30.13	-89.55	-4,400.98	4,136.80	4,265.88	4,189.15	76.73	55.593		
9,300.00	7,806.97	7,743.10	7,694.82	54.09	30.13	-89.56	-4,400.99	4,136.80	4,222.60	4,144.22	78.39	53.869		
9,400.00	7,806.97	7,743.87	7,695.59	55.62	30.14	-89.58	-4,401.00	4,136.80	4,181.27	4,101.18	80.09	52.209		
9,500.00	7,806.97	7,744.64	7,696.36	57.16	30.14	-89.59	-4,401.00	4,136.81	4,141.94	4,060.10	81.83	50.615		
9,600.00	7,806.97	7,745.40	7,697.12	58.71	30.14	-89.60	-4,401.01	4,136.81	4,104.66	4,021.05	83.62	49.089		
9,700.00	7,806.96	7,746.16	7,697.88	60.27	30.14	-89.61	-4,401.02	4,136.81	4,069.51	3,984.07	85.43	47.633		
9,800.00	7,806.96	7,746.91	7,698.63	61.84	30.14	-89.62	-4,401.03	4,136.81	4,036.52	3,949.24	87.28	46.247		
9,900.00	7,806.96	7,747.65	7,699.37	63.43	30.15	-89.63	-4,401.03	4,136.82	4,005.77	3,916.61	89.15	44.930		
10,000.00	7,806.96	7,748.39	7,700.11	65.02	30.15	-89.64	-4,401.04	4,136.82	3,977.28	3,886.24	91.05	43.685		
10,100.00	7,806.95	7,749.13	7,700.84	66.63	30.15	-89.65	-4,401.05	4,136.82	3,951.13	3,858.18	92.95	42.508		
10,200.00	7,806.95	7,750.00	7,701.62	68.24	30.17	-89.74	-4,401.11	4,136.84	3,927.35	3,832.47	94.88	41.393		
10,300.00	7,806.95	7,750.00	7,702.42	69.86	30.17	-89.74	-4,401.11	4,136.84	3,905.98	3,809.19	96.79	40.355		
10,400.00	7,806.95	7,750.00	7,703.24	71.49	30.17	-89.74	-4,401.11	4,136.84	3,887.07	3,788.37	98.70	39.383		
10,500.00	7,806.94	7,750.00	7,704.06	73.12	30.17	-89.74	-4,401.11	4,136.84	3,870.65	3,770.05	100.60	38.475		
10,600.00	7,806.94	7,750.00	7,704.88	74.76	30.17	-89.74	-4,401.11	4,136.84	3,856.75	3,754.26	102.49	37.632		
10,700.00	7,806.94	7,750.00	7,705.70	76.41	30.17	-89.74	-4,401.11	4,136.84	3,845.40	3,741.05	104.35	36.850		
10,800.00	7,806.94	7,750.00	7,706.52	78.06	30.17	-89.74	-4,401.11	4,136.84	3,836.63	3,730.44	106.19	36.129		
10,900.00	7,806.93	7,750.00	7,707.34	79.72	30.17	-89.74	-4,401.11	4,136.84	3,830.45	3,722.45	108.00	35.466		
11,000.00	7,806.93	7,750.00	7,708.16	81.38	30.17	-89.74	-4,401.11	4,136.84	3,826.88	3,717.10	109.78	34.860		
11,086.94	7,806.93	7,750.00	7,708.98	82.83	30.17	-89.74	-4,401.11	4,136.84	3,825.89	3,714.60	111.29	34.378 CC		
11,100.00	7,806.93	7,750.00	7,709.80	83.05	30.17	-89.74	-4,401.11	4,136.84	3,825.91	3,714.40	111.51	34.309		
11,200.00	7,806.93	7,750.00	7,710.62	84.72	30.17	-89.74	-4,401.11	4,136.84	3,827.56	3,714.35	113.20	33.811 ES		
11,300.00	7,806.92	7,750.00	7,711.44	86.39	30.17	-89.74	-4,401.11	4,136.84	3,831.82	3,716.97	114.85	33.364		
11,400.00	7,806.92	7,750.00	7,712.26	88.07	30.17	-89.74	-4,401.11	4,136.84	3,838.68	3,722.24	116.44	32.967		
11,500.00	7,806.92	7,750.00	7,713.08	89.75	30.17	-89.74	-4,401.11	4,136.84	3,848.12	3,730.14	117.98	32.617		
11,600.00	7,806.92	7,750.00	7,713.90	91.44	30.17	-89.74	-4,401.11	4,136.84	3,860.14	3,740.68	119.46	32.314		
11,700.00	7,806.91	7,750.00	7,714.72	93.13	30.17	-89.74	-4,401.11	4,136.84	3,874.70	3,753.82	120.88	32.054		
11,800.00	7,806.91	7,761.08	7,715.54	94.82	30.19	-89.83	-4,401.16	4,136.87	3,891.76	3,769.50	122.26	31.831		
11,900.00	7,806.91	7,761.78	7,716.36	96.52	30.19	-89.84	-4,401.17	4,136.87	3,911.32	3,787.76	123.57	31.654		
12,000.00	7,806.91	7,762.47	7,717.18	98.21	30.19	-89.85	-4,401.18	4,136.88	3,933.32	3,808.52	124.80	31.516		
12,100.00	7,806.90	7,763.16	7,718.00	99.91	30.20	-89.86	-4,401.18	4,136.88	3,957.73	3,831.75	125.98	31.416		
12,200.00	7,806.90	7,763.85	7,718.82	101.62	30.20	-89.87	-4,401.19	4,136.88	3,984.50	3,857.41	127.09	31.353		
12,300.00	7,806.90	7,764.54	7,719.64	103.32	30.20	-89.89	-4,401.20	4,136.89	4,013.58	3,885.45	128.13	31.324 SF		
12,400.00	7,806.90	7,765.23	7,720.46	105.03	30.20	-89.90	-4,401.20	4,136.89	4,044.92	3,915.81	129.11	31.328		
12,500.00	7,806.89	7,765.91	7,721.28	106.74	30.20	-89.91	-4,401.21	4,136.89	4,078.48	3,948.45	130.04	31.364		
12,600.00	7,806.89	7,766.60	7,722.10	108.45	30.21	-89.92	-4,401.22	4,136.90	4,114.19	3,983.30	130.89	31.431		
12,700.00	7,806.89	7,767.28	7,722.92	110.17	30.21	-89.93	-4,401.22	4,136.90	4,152.01	4,020.32	131.69	31.528		
12,800.00	7,806.89	7,767.96	7,723.74	111.88	30.21	-89.94	-4,401.23	4,136.91	4,191.87	4,059.43	132.44	31.652		
12,900.00	7,806.88	7,768.65	7,724.56	113.60	30.21	-89.95	-4,401.24	4,136.91	4,233.72	4,100.60	133.12	31.803		
13,000.00	7,806.88	7,769.33	7,725.38	115.32	30.21	-89.96	-4,401.24	4,136.91	4,277.49	4,143.74	133.75	31.981		
13,100.00	7,806.88	7,770.01	7,726.20	117.04	30.22	-89.97	-4,401.25	4,136.92	4,323.14	4,188.81	134.33	32.183		
13,200.00	7,806.88	7,770.68	7,727.02	118.76	30.22	-89.98	-4,401.26	4,136.92	4,370.60	4,235.74	134.86	32.408		
13,300.00	7,806.87	7,771.36	7,727.84	120.48	30.22	-89.99	-4,401.26	4,136.92	4,419.81	4,284.47	135.34	32.657		
13,400.00	7,806.87	7,772.04	7,728.66	122.21	30.22	-90.00	-4,401.27	4,136.93	4,470.71	4,334.94	135.78	32.927		
13,500.00	7,806.87	7,772.71	7,729.48	123.94	30.23	-90.01	-4,401.27	4,136.93	4,523.26	4,387.09	136.17	33.218		
13,600.00	7,806.87	7,773.38	7,730.30	125.66	30.23	-90.02	-4,401.28	4,136.94	4,577.38	4,440.86	136.52	33.529		
13,700.00	7,806.86	7,774.06	7,731.12	127.39	30.23	-90.03	-4,401.29	4,136.94	4,633.04	4,496.20	136.83	33.860		
13,800.00	7,806.86	7,774.73	7,731.94	129.12	30.23	-90.04	-4,401.29	4,136.94	4,690.16	4,553.05	137.11	34.208		
13,900.00	7,806.86	7,775.40	7,732.76	130.85	30.23	-90.05	-4,401.30	4,136.95	4,748.70	4,611.36	137.35	34.575		

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-20-3N
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-20-3N	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	7,806.86	7,776.07	7,727.78	132.59	30.24	-90.06	-4,401.31	4,136.95	4,808.61	4,671.06	137.56	34.958		
14,100.00	7,806.85	7,776.73	7,728.45	134.32	30.24	-90.07	-4,401.31	4,136.96	4,869.84	4,732.10	137.73	35.357		
14,200.00	7,806.85	7,777.40	7,729.12	136.06	30.24	-90.08	-4,401.32	4,136.96	4,932.33	4,794.45	137.88	35.772		
14,300.00	7,806.85	7,778.07	7,729.78	137.79	30.24	-90.09	-4,401.33	4,136.96	4,996.04	4,858.04	138.01	36.202		
14,400.00	7,806.85	7,778.73	7,730.45	139.53	30.24	-90.10	-4,401.33	4,136.97	5,060.93	4,922.83	138.10	36.646		
14,500.00	7,806.84	7,779.39	7,731.11	141.27	30.25	-90.11	-4,401.34	4,136.97	5,126.95	4,988.77	138.18	37.103		
14,600.00	7,806.84	7,780.06	7,731.77	143.00	30.25	-90.12	-4,401.34	4,136.98	5,194.05	5,055.82	138.23	37.574		
14,700.00	7,806.84	7,780.72	7,732.43	144.74	30.25	-90.13	-4,401.35	4,136.98	5,262.20	5,123.93	138.27	38.058		
14,800.00	7,806.84	7,781.38	7,733.09	146.48	30.25	-90.14	-4,401.36	4,136.99	5,331.35	5,193.06	138.28	38.553		
14,900.00	7,806.83	7,782.04	7,733.75	148.22	30.25	-90.15	-4,401.36	4,136.99	5,401.47	5,263.18	138.28	39.061		
15,000.00	7,806.83	7,782.69	7,734.41	149.97	30.26	-90.16	-4,401.37	4,137.00	5,472.51	5,334.25	138.27	39.579		
15,100.00	7,806.83	7,783.35	7,735.07	151.71	30.26	-90.17	-4,401.37	4,137.00	5,544.45	5,406.22	138.24	40.108		
15,200.00	7,806.83	7,784.01	7,735.72	153.45	30.26	-90.18	-4,401.38	4,137.00	5,617.25	5,479.06	138.19	40.648		
15,300.00	7,806.82	7,784.66	7,736.38	155.19	30.26	-90.19	-4,401.39	4,137.01	5,690.88	5,552.74	138.14	41.197		
15,400.00	7,806.82	7,785.31	7,737.03	156.94	30.26	-90.20	-4,401.39	4,137.01	5,765.30	5,627.22	138.07	41.756		
15,500.00	7,806.82	7,785.97	7,737.68	158.68	30.27	-90.21	-4,401.40	4,137.02	5,840.48	5,702.48	138.00	42.324		
15,600.00	7,806.82	7,786.62	7,738.33	160.43	30.27	-90.22	-4,401.40	4,137.02	5,916.40	5,778.49	137.91	42.900		
15,700.00	7,806.81	7,787.27	7,738.98	162.18	30.27	-90.23	-4,401.41	4,137.03	5,993.02	5,855.20	137.82	43.485		
15,800.00	7,806.81	7,787.92	7,739.63	163.92	30.27	-90.24	-4,401.42	4,137.03	6,070.33	5,932.61	137.72	44.079		
15,900.00	7,806.81	7,788.57	7,740.28	165.67	30.27	-90.24	-4,401.42	4,137.04	6,148.29	6,010.68	137.61	44.680		
16,000.00	7,806.81	7,789.21	7,740.93	167.42	30.28	-90.25	-4,401.43	4,137.04	6,226.87	6,089.38	137.49	45.288		
16,100.00	7,806.80	7,789.86	7,741.57	169.17	30.28	-90.26	-4,401.43	4,137.05	6,306.07	6,168.69	137.38	45.904		
16,200.00	7,806.80	7,790.50	7,742.22	170.91	30.28	-90.27	-4,401.44	4,137.05	6,385.85	6,248.60	137.25	46.526		
16,300.00	7,806.80	7,791.15	7,742.86	172.66	30.28	-90.28	-4,401.45	4,137.06	6,466.19	6,329.07	137.12	47.156		
16,400.00	7,806.80	7,791.79	7,743.50	174.41	30.28	-90.29	-4,401.45	4,137.06	6,547.07	6,410.08	136.99	47.792		
16,500.00	7,806.79	7,792.43	7,744.15	176.16	30.29	-90.30	-4,401.46	4,137.07	6,628.48	6,491.62	136.86	48.434		
16,600.00	7,806.79	7,793.07	7,744.79	177.92	30.29	-90.31	-4,401.46	4,137.07	6,710.38	6,573.66	136.72	49.082		
16,700.00	7,806.79	7,793.71	7,745.43	179.67	30.29	-90.32	-4,401.47	4,137.08	6,792.77	6,656.19	136.58	49.735		
16,800.00	7,806.79	7,794.35	7,746.06	181.42	30.29	-90.33	-4,401.48	4,137.08	6,875.63	6,739.19	136.44	50.394		
16,900.00	7,806.78	7,794.99	7,746.70	183.17	30.29	-90.34	-4,401.48	4,137.09	6,958.94	6,822.65	136.29	51.059		
17,000.00	7,806.78	7,795.62	7,747.34	184.92	30.30	-90.35	-4,401.49	4,137.09	7,042.68	6,906.54	136.15	51.728		
17,100.00	7,806.78	7,796.26	7,747.97	186.68	30.30	-90.36	-4,401.49	4,137.10	7,126.85	6,990.84	136.00	52.403		
17,200.00	7,806.78	7,796.89	7,748.61	188.43	30.30	-90.37	-4,401.50	4,137.10	7,211.41	7,075.56	135.85	53.082		
17,300.00	7,806.77	7,797.53	7,749.24	190.18	30.30	-90.38	-4,401.50	4,137.11	7,296.37	7,160.66	135.71	53.766		
17,400.00	7,806.77	7,798.16	7,749.87	191.94	30.30	-90.39	-4,401.51	4,137.11	7,381.70	7,246.14	135.56	54.454		
17,500.00	7,806.77	7,798.79	7,750.50	193.69	30.31	-90.40	-4,401.52	4,137.12	7,467.40	7,331.99	135.41	55.147		
17,600.00	7,806.77	7,799.42	7,751.13	195.45	30.31	-90.41	-4,401.52	4,137.12	7,553.45	7,418.19	135.26	55.843		
17,700.00	7,806.76	7,800.05	7,751.76	197.20	30.31	-90.42	-4,401.53	4,137.13	7,639.84	7,504.72	135.11	56.544		
17,800.00	7,806.76	7,800.68	7,752.39	198.96	30.31	-90.43	-4,401.53	4,137.13	7,726.55	7,591.59	134.97	57.248		
17,877.44	7,807.00	7,801.33	7,753.04	200.32	30.31	-90.43	-4,401.54	4,137.14	7,793.89	7,659.04	134.85	57.796		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	130.04	-3,992.12	4,751.26	6,206.33					
100.00	100.00	28.90	28.90	0.13	0.04	130.04	-3,992.16	4,751.19	6,205.75	6,205.57	0.17	N/A		
174.00	174.00	90.00	90.00	0.40	0.19	130.04	-3,992.50	4,750.65	6,205.54	6,204.95	0.59	N/A		
200.00	200.00	103.23	103.22	0.49	0.24	130.05	-3,992.64	4,750.53	6,205.55	6,204.82	0.73	8,529.217		
300.00	300.00	153.64	153.62	0.85	0.42	130.06	-3,993.70	4,750.14	6,206.23	6,204.97	1.27	4,896.787		
400.00	400.00	235.00	234.94	1.21	0.71	130.08	-3,996.23	4,749.06	6,207.25	6,205.33	1.92	3,231.829		
500.00	500.00	264.00	263.90	1.57	0.82	130.09	-3,997.59	4,748.60	6,209.11	6,206.73	2.39	2,602.592		
600.00	600.00	317.42	317.20	1.93	1.02	130.12	-4,001.07	4,747.67	6,211.96	6,209.02	2.94	2,111.348		
700.00	700.00	385.00	384.54	2.29	1.27	130.17	-4,006.45	4,746.10	6,215.36	6,211.80	3.56	1,748.245		
800.00	800.00	477.00	475.98	2.64	1.64	130.26	-4,015.95	4,742.51	6,219.07	6,214.80	4.27	1,455.308		
900.00	900.00	516.70	515.32	3.00	1.80	130.30	-4,020.89	4,740.53	6,223.39	6,218.60	4.79	1,298.716		
1,000.00	1,000.00	550.05	548.32	3.36	1.94	130.35	-4,025.47	4,739.00	6,228.78	6,223.50	5.29	1,178.353		
1,100.00	1,100.00	598.00	595.66	3.72	2.15	130.41	-4,032.70	4,736.76	6,235.08	6,229.23	5.84	1,066.975		
1,200.00	1,200.00	638.91	635.92	4.08	2.33	130.47	-4,039.65	4,734.62	6,242.27	6,235.89	6.38	978.897		
1,300.00	1,300.00	688.00	684.04	4.44	2.56	130.55	-4,048.97	4,731.82	6,250.38	6,243.43	6.95	899.114		
1,400.00	1,400.00	728.32	723.38	4.79	2.75	130.63	-4,057.41	4,729.24	6,259.35	6,251.85	7.49	835.323		
1,500.00	1,499.98	764.85	758.86	5.14	2.94	-32.97	-4,065.71	4,726.80	6,267.87	6,259.87	8.00	783.279		
1,600.00	1,599.84	813.00	805.38	5.46	3.19	-32.80	-4,077.67	4,723.29	6,274.44	6,265.88	8.56	732.921		
1,700.00	1,699.45	864.03	854.35	5.80	3.47	-32.66	-4,091.40	4,719.14	6,278.90	6,269.75	9.15	686.087		
1,800.00	1,798.70	908.00	896.29	6.14	3.72	-32.55	-4,104.00	4,715.21	6,281.19	6,271.47	9.72	646.332		
1,900.00	1,897.47	1,900.00	986.86	6.49	3.91	-32.36	-4,133.74	4,705.83	6,281.54	6,264.64	16.89	371.829		
1,969.08	1,965.35	1,035.00	1,016.30	6.75	4.50	-32.32	-4,143.55	4,702.49	6,279.92	6,268.89	11.03	569.308		
2,000.00	1,995.66	1,057.00	1,037.01	6.86	4.64	-32.28	-4,150.60	4,700.18	6,279.03	6,267.76	11.27	557.146		
2,100.00	2,093.69	1,116.48	1,093.03	7.25	5.02	-32.17	-4,169.69	4,694.31	6,276.64	6,264.66	11.98	524.100		
2,200.00	2,191.72	1,189.87	1,162.38	7.65	5.49	-32.04	-4,192.84	4,687.85	6,274.73	6,261.96	12.77	491.247		
2,300.00	2,289.76	1,246.64	1,215.97	8.07	5.86	-31.94	-4,210.92	4,683.02	6,273.34	6,259.86	13.47	465.584		
2,400.00	2,387.79	1,313.00	1,278.42	8.49	6.29	-31.82	-4,232.73	4,677.65	6,272.86	6,258.62	14.24	440.453		
2,500.00	2,485.82	1,415.12	1,374.78	8.91	6.96	-31.64	-4,265.63	4,669.91	6,272.48	6,257.24	15.23	411.753		
2,600.00	2,583.86	1,500.82	1,454.99	9.35	7.55	-31.47	-4,294.76	4,662.01	6,272.22	6,256.07	16.15	388.382		
2,700.00	2,681.89	1,626.78	1,571.82	9.79	8.44	-31.20	-4,339.70	4,648.04	6,271.95	6,254.59	17.36	361.220		
2,800.00	2,779.92	1,767.82	1,702.82	10.24	9.44	-30.89	-4,389.32	4,631.69	6,271.03	6,252.34	18.68	335.641		
2,900.00	2,877.96	1,945.16	1,869.05	10.69	10.66	-30.53	-4,448.04	4,612.50	6,269.26	6,249.05	20.22	310.111		
3,000.00	2,975.99	3,000.00	1,981.77	11.14	11.71	-30.30	-4,486.50	4,599.71	6,267.02	6,239.81	27.22	230.260		
3,100.00	3,074.02	2,148.51	2,060.85	11.60	12.02	-30.16	-4,512.17	4,591.41	6,264.38	6,242.13	22.25	281.528		
3,200.00	3,172.06	2,201.00	2,110.71	12.06	12.36	-30.07	-4,528.02	4,587.25	6,262.65	6,239.71	22.94	272.946		
3,300.00	3,270.09	2,265.04	2,171.31	12.52	12.79	-29.96	-4,548.06	4,582.04	6,261.64	6,237.92	23.72	263.998		
3,400.00	3,368.12	2,348.94	2,250.00	12.98	13.36	-29.80	-4,575.91	4,573.59	6,260.83	6,236.20	24.63	254.186		
3,500.00	3,466.16	2,414.31	2,311.20	13.45	13.81	-29.67	-4,597.93	4,566.99	6,260.46	6,235.03	25.43	246.177		
3,505.20	3,471.26	2,417.03	2,313.74	13.48	13.83	-29.66	-4,598.85	4,566.72	6,260.46	6,234.99	25.47	245.817		
3,600.00	3,564.19	2,625.58	2,509.58	13.92	15.27	-29.26	-4,667.64	4,546.74	6,260.46	6,233.29	27.17	230.440		
3,700.00	3,662.23	2,703.83	2,583.09	14.39	15.80	-29.11	-4,693.11	4,538.36	6,258.95	6,230.91	28.04	223.190		
3,800.00	3,760.26	2,797.43	2,671.01	14.86	16.44	-28.93	-4,723.63	4,528.38	6,257.60	6,228.58	29.02	215.622		
3,900.00	3,858.29	2,880.49	2,749.24	15.34	17.00	-28.77	-4,750.34	4,520.25	6,256.58	6,226.66	29.92	209.086		
4,000.00	3,956.33	3,017.06	2,878.10	15.81	17.92	-28.52	-4,793.57	4,506.89	6,255.21	6,224.06	31.16	200.755		
4,100.00	4,054.36	3,088.46	2,945.27	16.29	18.41	-28.38	-4,816.56	4,499.36	6,253.90	6,221.91	31.99	195.502		
4,200.00	4,152.39	3,152.00	3,004.78	16.77	18.85	-28.25	-4,837.78	4,492.54	6,253.31	6,220.54	32.77	190.805		
4,300.00	4,250.43	3,236.35	3,083.89	17.25	19.43	-28.09	-4,865.78	4,484.03	6,253.12	6,219.43	33.69	185.610		
4,316.63	4,266.73	3,246.95	3,093.84	17.33	19.51	-28.07	-4,869.28	4,483.00	6,253.11	6,219.30	33.82	184.897		
4,400.00	4,348.46	4,400.00	3,199.08	17.73	27.44	-27.85	-4,906.53	4,471.79	6,253.15	6,211.71	41.45	150.873		
4,500.00	4,446.49	3,451.17	3,285.63	18.21	20.91	-27.67	-4,936.34	4,462.53	6,252.56	6,216.75	35.80	174.632		
4,600.00	4,544.53	4,600.00	3,418.49	18.69	28.66	-27.41	-4,981.63	4,448.99	6,252.16	6,208.83	43.33	144.298		
4,700.00	4,642.56	3,654.38	3,477.03	19.17	22.29	-27.29	-5,001.46	4,442.16	6,251.04	6,213.21	37.83	165.247		

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-20-3N
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-20-3N	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		
4,719.47	4,661.65	3,659.48	3,481.81	19.26	22.32	-27.28	-5,003.14	4,441.63	6,251.01	6,213.08	37.93	164.792		
4,800.00	4,740.59	3,692.00	3,512.27	19.65	22.54	-27.21	-5,014.09	4,438.43	6,251.43	6,213.00	38.44	162.647		
4,900.00	4,838.63	3,951.72	3,757.81	20.13	24.27	-26.75	-5,095.10	4,414.62	6,250.44	6,210.04	40.40	154.716		
5,000.00	4,936.66	4,028.99	3,831.40	20.62	24.76	-26.63	-5,117.79	4,408.29	6,249.06	6,207.83	41.23	151.566		
5,100.00	5,034.69	4,099.76	3,898.44	21.10	25.22	-26.51	-5,139.42	4,401.56	6,247.85	6,205.83	42.02	148.672		
5,200.00	5,132.73	4,209.16	4,002.00	21.59	25.94	-26.32	-5,173.29	4,391.75	6,247.36	6,204.30	43.06	145.096		
5,294.31	5,225.19	4,244.71	4,035.53	22.04	26.18	-26.25	-5,184.62	4,388.29	6,246.98	6,203.35	43.63	143.196		
5,300.00	5,230.76	4,247.38	4,038.04	22.07	26.20	-26.25	-5,185.48	4,388.03	6,246.98	6,203.31	43.66	143.073		
5,311.23	5,241.77	4,262.00	4,051.80	22.13	26.30	-26.22	-5,190.21	4,386.62	6,247.00	6,203.21	43.79	142.643		
5,400.00	5,328.79	4,326.00	4,111.96	22.56	26.73	-26.09	-5,211.05	4,380.09	6,247.07	6,202.54	44.52	140.315		
5,500.00	5,426.83	4,368.36	4,151.62	23.04	27.03	-26.01	-5,225.21	4,375.62	6,247.81	6,202.65	45.15	138.365		
5,600.00	5,524.86	4,554.13	4,325.74	23.53	28.32	-25.64	-5,287.04	4,356.42	6,248.38	6,201.68	46.70	133.787		
5,700.00	5,622.89	4,607.42	4,375.70	24.02	28.69	-25.53	-5,304.69	4,350.70	6,248.76	6,201.36	47.40	131.825		
5,800.00	5,720.93	4,649.17	4,414.80	24.50	28.98	-25.45	-5,318.70	4,346.57	6,250.06	6,202.04	48.02	130.147		
5,900.00	5,818.96	4,889.74	4,641.44	24.99	30.61	-25.01	-5,396.18	4,324.22	6,250.70	6,200.84	49.87	125.342		
6,000.00	5,916.99	4,995.50	4,742.08	25.48	31.28	-24.84	-5,427.52	4,315.63	6,250.16	6,199.31	50.85	122.912		
6,100.00	6,015.03	5,068.81	4,812.20	25.97	31.74	-24.73	-5,448.42	4,310.98	6,249.91	6,198.28	51.63	121.056		
6,200.00	6,113.06	5,278.36	5,011.07	26.45	33.09	-24.38	-5,511.64	4,292.24	6,249.76	6,196.54	53.22	117.430		
6,300.00	6,211.09	5,333.58	5,063.39	26.94	33.46	-24.28	-5,528.33	4,286.48	6,248.40	6,194.48	53.92	115.884		
6,400.00	6,309.13	5,400.00	5,154.44	27.43	40.51	-24.10	-5,558.48	4,276.22	6,247.78	6,187.06	60.72	102.894		
6,500.00	6,407.16	5,547.24	5,265.88	27.92	34.85	-23.90	-5,593.00	4,265.15	6,246.51	6,190.60	55.91	111.720		
6,600.00	6,505.19	5,647.58	5,361.48	28.41	35.49	-23.74	-5,622.16	4,256.35	6,245.43	6,188.58	56.85	109.856		
6,664.73	6,568.65	6,664.73	5,431.43	28.73	42.01	-23.61	-5,643.87	4,249.16	6,244.57	6,181.55	63.02	99.083		
6,699.17	6,602.46	5,747.53	5,456.46	28.89	36.13	-23.56	-5,651.72	4,246.49	6,244.33	6,186.53	57.79	108.047		
6,700.00	6,603.27	5,747.93	5,456.84	28.90	36.13	-23.56	-5,651.84	4,246.44	6,244.33	6,186.53	57.80	108.037		
6,800.00	6,701.84	5,796.64	5,503.00	29.36	36.45	-23.49	-5,666.60	4,241.61	6,246.38	6,187.95	58.43	106.897		
6,900.00	6,800.94	5,925.08	5,624.75	29.78	37.29	-23.28	-5,705.63	4,229.30	6,252.00	6,192.48	59.52	105.041		
7,000.00	6,900.45	6,555.22	6,235.46	30.17	40.74	-22.34	-5,851.15	4,181.10	6,255.95	6,193.05	62.90	99.455		
7,100.00	7,000.24	6,821.99	6,499.24	30.53	41.84	-22.11	-5,888.40	4,167.88	6,257.79	6,193.59	64.20	97.471		
7,200.00	7,100.19	7,377.91	7,053.75	30.85	43.42	-21.91	-5,917.47	4,155.73	6,256.58	6,190.79	65.79	95.093		
7,233.81	7,134.00	7,416.14	7,091.98	30.95	43.49	141.84	-5,917.18	4,155.73	6,256.20	6,190.23	65.97	94.827		
7,300.00	7,200.19	7,504.32	7,180.15	31.12	43.64	141.84	-5,916.05	4,155.92	6,255.62	6,189.29	66.33	94.314		
7,333.81	7,234.00	7,536.84	7,212.67	31.21	43.69	141.83	-5,915.46	4,156.13	6,255.27	6,188.77	66.49	94.071		
7,350.00	7,250.18	7,550.26	7,226.08	31.26	43.72	-37.85	-5,915.20	4,156.25	6,254.93	6,188.35	66.58	93.951		
7,400.00	7,300.04	7,582.00	7,257.81	31.44	43.77	-38.07	-5,914.56	4,156.60	6,251.66	6,184.82	66.84	93.529		
7,450.00	7,349.39	7,617.88	7,293.68	31.66	43.83	-38.52	-5,913.85	4,157.12	6,245.10	6,177.96	67.13	93.024		
7,500.00	7,397.87	7,646.41	7,322.20	31.92	43.88	-39.19	-5,913.33	4,157.64	6,235.34	6,167.90	67.44	92.455		
7,550.00	7,445.09	7,677.00	7,352.78	32.22	43.93	-40.11	-5,912.83	4,158.30	6,222.46	6,154.69	67.77	91.818		
7,600.00	7,490.72	7,700.01	7,375.78	32.55	43.97	-41.27	-5,912.50	4,158.84	6,206.55	6,138.44	68.11	91.128		
7,650.00	7,534.38	7,724.67	7,400.44	32.92	44.01	-42.72	-5,912.23	4,159.44	6,187.75	6,119.28	68.46	90.383		
7,700.00	7,575.77	7,748.11	7,423.87	33.32	44.05	-44.46	-5,912.05	4,160.02	6,166.18	6,097.36	68.83	89.590		
7,750.00	7,614.55	7,750.00	7,499.20	33.75	44.06	-46.83	-5,911.39	4,161.72	6,141.81	6,072.69	69.12	88.860		
7,800.00	7,650.43	7,902.23	7,577.94	34.22	44.33	-49.71	-5,910.31	4,163.25	6,114.76	6,045.06	69.70	87.731		
7,850.00	7,683.15	7,926.58	7,602.29	34.71	44.37	-52.71	-5,909.90	4,163.71	6,085.38	6,015.28	70.09	86.819		
7,900.00	7,712.45	7,948.35	7,624.04	35.23	44.41	-56.16	-5,909.54	4,164.14	6,054.04	5,983.55	70.49	85.885		
7,950.00	7,738.11	7,962.00	7,637.69	35.78	44.43	-60.02	-5,909.33	4,164.42	6,021.00	5,950.11	70.89	84.940		
8,000.00	7,759.93	7,962.00	7,637.69	36.35	44.43	-64.22	-5,909.33	4,164.42	5,986.56	5,915.29	71.27	83.997		
8,050.00	7,777.75	7,985.26	7,660.94	36.93	44.47	-69.16	-5,908.99	4,164.94	5,950.89	5,879.21	71.68	83.017		
8,100.00	7,791.43	7,991.98	7,667.66	37.53	44.48	-74.32	-5,908.91	4,165.10	5,914.37	5,842.28	72.08	82.052		
8,150.00	7,800.87	7,996.55	7,672.23	38.14	44.49	-79.79	-5,908.85	4,165.22	5,877.23	5,804.75	72.48	81.090		
8,200.00	7,806.00	7,998.90	7,674.57	38.76	44.50	-85.43	-5,908.82	4,165.28	5,839.76	5,766.89	72.87	80.137		
8,233.89	7,807.00	7,999.21	7,674.89	39.18	44.50	-89.28	-5,908.82	4,165.28	5,814.32	5,741.18	73.14	79.497		

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-20-3N
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-20-3N	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		
8,300.00	7,807.00	7,998.82	7,674.49	40.00	44.50	-89.28	-5,908.82	4,165.27	5,764.90	5,691.23	73.67	78.253		
8,400.00	7,807.00	7,998.21	7,673.88	41.29	44.50	-89.27	-5,908.83	4,165.26	5,690.79	5,616.26	74.53	76.353		
8,500.00	7,806.99	7,997.59	7,673.27	42.60	44.50	-89.26	-5,908.84	4,165.24	5,617.49	5,542.02	75.47	74.438		
8,600.00	7,806.99	7,996.97	7,672.65	43.95	44.49	-89.25	-5,908.84	4,165.23	5,545.02	5,468.55	76.47	72.514		
8,700.00	7,806.99	7,996.34	7,672.02	45.33	44.49	-89.24	-5,908.85	4,165.21	5,473.41	5,395.87	77.54	70.588		
8,800.00	7,806.99	7,995.70	7,671.38	46.74	44.49	-89.23	-5,908.86	4,165.20	5,402.71	5,324.03	78.68	68.664		
8,900.00	7,806.98	7,995.06	7,670.74	48.17	44.49	-89.22	-5,908.87	4,165.18	5,332.94	5,253.05	79.89	66.749		
9,000.00	7,806.98	7,994.41	7,670.09	49.62	44.49	-89.21	-5,908.88	4,165.16	5,264.16	5,182.98	81.18	64.849		
9,100.00	7,806.98	7,993.75	7,669.43	51.09	44.49	-89.20	-5,908.88	4,165.15	5,196.38	5,113.86	82.52	62.968		
9,200.00	7,806.98	7,993.08	7,668.76	52.59	44.49	-89.19	-5,908.89	4,165.13	5,129.66	5,045.72	83.94	61.111		
9,300.00	7,806.97	7,992.41	7,668.09	54.09	44.49	-89.18	-5,908.90	4,165.11	5,064.03	4,978.61	85.42	59.284		
9,400.00	7,806.97	7,991.73	7,667.41	55.62	44.48	-89.17	-5,908.91	4,165.10	4,999.54	4,912.58	86.97	57.488		
9,500.00	7,806.97	7,991.04	7,666.72	57.16	44.48	-89.16	-5,908.92	4,165.08	4,936.24	4,847.67	88.57	55.730		
9,600.00	7,806.97	7,990.34	7,666.02	58.71	44.48	-89.15	-5,908.93	4,165.06	4,874.17	4,783.92	90.24	54.011		
9,700.00	7,806.96	7,989.63	7,665.31	60.27	44.48	-89.14	-5,908.94	4,165.05	4,813.37	4,721.39	91.97	52.335		
9,800.00	7,806.96	7,988.92	7,664.60	61.84	44.48	-89.13	-5,908.94	4,165.03	4,753.90	4,660.14	93.76	50.703		
9,900.00	7,806.96	7,988.19	7,663.87	63.43	44.48	-89.12	-5,908.95	4,165.01	4,695.80	4,600.20	95.60	49.119		
10,000.00	7,806.96	7,987.46	7,663.14	65.02	44.48	-89.11	-5,908.96	4,164.99	4,639.13	4,541.64	97.49	47.584		
10,100.00	7,806.95	7,986.72	7,662.40	66.63	44.48	-89.10	-5,908.97	4,164.97	4,583.95	4,484.51	99.44	46.098		
10,200.00	7,806.95	7,985.97	7,661.65	68.24	44.47	-89.09	-5,908.98	4,164.96	4,530.30	4,428.87	101.43	44.665		
10,300.00	7,806.95	7,985.21	7,660.89	69.86	44.47	-89.08	-5,908.99	4,164.94	4,478.23	4,374.77	103.46	43.283		
10,400.00	7,806.95	7,984.44	7,660.12	71.49	44.47	-89.06	-5,909.00	4,164.92	4,427.82	4,322.28	105.54	41.954		
10,500.00	7,806.94	7,983.66	7,659.34	73.12	44.47	-89.05	-5,909.01	4,164.90	4,379.11	4,271.45	107.65	40.678		
10,600.00	7,806.94	7,982.87	7,658.55	74.76	44.47	-89.04	-5,909.02	4,164.88	4,332.16	4,222.36	109.80	39.455		
10,700.00	7,806.94	7,982.07	7,657.75	76.41	44.47	-89.03	-5,909.03	4,164.86	4,287.03	4,175.05	111.98	38.285		
10,800.00	7,806.94	7,981.26	7,656.95	78.06	44.47	-89.02	-5,909.05	4,164.85	4,243.77	4,129.59	114.18	37.168		
10,900.00	7,806.93	7,980.44	7,656.13	79.72	44.46	-89.01	-5,909.06	4,164.83	4,202.45	4,086.05	116.40	36.104		
11,000.00	7,806.93	7,979.61	7,655.30	81.38	44.46	-88.99	-5,909.07	4,164.81	4,163.12	4,044.49	118.63	35.092		
11,100.00	7,806.93	7,978.77	7,654.46	83.05	44.46	-88.98	-5,909.08	4,164.79	4,125.84	4,004.96	120.88	34.132		
11,200.00	7,806.93	7,977.92	7,653.61	84.72	44.46	-88.97	-5,909.09	4,164.77	4,090.67	3,967.54	123.13	33.223		
11,300.00	7,806.92	7,977.06	7,652.74	86.39	44.46	-88.95	-5,909.10	4,164.75	4,057.65	3,932.28	125.38	32.364		
11,400.00	7,806.92	7,976.18	7,651.87	88.07	44.46	-88.94	-5,909.12	4,164.73	4,026.85	3,899.24	127.62	31.555		
11,500.00	7,806.92	7,975.30	7,650.98	89.75	44.45	-88.93	-5,909.13	4,164.71	3,998.31	3,868.47	129.84	30.794		
11,600.00	7,806.92	7,974.40	7,650.08	91.44	44.45	-88.92	-5,909.14	4,164.69	3,972.09	3,840.04	132.05	30.081		
11,700.00	7,806.91	7,973.49	7,649.17	93.13	44.45	-88.90	-5,909.15	4,164.67	3,948.22	3,814.00	134.23	29.414		
11,800.00	7,806.91	7,962.00	7,637.69	94.82	44.43	-88.73	-5,909.33	4,164.42	3,926.78	3,790.43	136.35	28.799		
11,900.00	7,806.91	7,962.00	7,637.69	96.52	44.43	-88.73	-5,909.33	4,164.42	3,907.76	3,769.29	138.46	28.222		
12,000.00	7,806.91	7,962.00	7,637.69	98.21	44.43	-88.73	-5,909.33	4,164.42	3,891.21	3,750.68	140.53	27.689		
12,100.00	7,806.90	7,962.00	7,637.69	99.91	44.43	-88.73	-5,909.33	4,164.42	3,877.17	3,734.62	142.55	27.200		
12,200.00	7,806.90	7,962.00	7,637.69	101.62	44.43	-88.73	-5,909.33	4,164.42	3,865.67	3,721.16	144.50	26.751		
12,300.00	7,806.90	7,962.00	7,637.69	103.32	44.43	-88.73	-5,909.33	4,164.42	3,856.73	3,710.32	146.40	26.344		
12,400.00	7,806.90	7,962.00	7,637.69	105.03	44.43	-88.73	-5,909.33	4,164.42	3,850.36	3,702.13	148.23	25.975		
12,500.00	7,806.89	7,962.00	7,637.69	106.74	44.43	-88.73	-5,909.33	4,164.42	3,846.58	3,696.60	149.99	25.646		
12,595.29	7,806.89	7,962.00	7,637.69	108.37	44.43	-88.73	-5,909.33	4,164.42	3,845.40	3,693.81	151.59	25.367 CC		
12,600.00	7,806.89	7,962.00	7,637.69	108.45	44.43	-88.73	-5,909.33	4,164.42	3,845.41	3,693.74	151.67	25.354		
12,700.00	7,806.89	7,962.00	7,637.69	110.17	44.43	-88.73	-5,909.33	4,164.42	3,846.83	3,693.56	153.27	25.098 ES		
12,800.00	7,806.89	7,962.00	7,637.69	111.88	44.43	-88.73	-5,909.33	4,164.42	3,850.85	3,696.06	154.79	24.877		
12,900.00	7,806.88	7,961.42	7,637.11	113.60	44.43	-88.72	-5,909.34	4,164.41	3,857.46	3,701.23	156.22	24.692		
13,000.00	7,806.88	7,960.10	7,635.79	115.32	44.43	-88.70	-5,909.36	4,164.38	3,866.64	3,709.07	157.57	24.540		
13,100.00	7,806.88	7,958.77	7,634.46	117.04	44.42	-88.68	-5,909.38	4,164.35	3,878.38	3,719.56	158.82	24.420		
13,200.00	7,806.88	7,957.44	7,633.13	118.76	44.42	-88.66	-5,909.40	4,164.32	3,892.66	3,732.67	159.98	24.332		
13,300.00	7,806.87	7,956.10	7,631.79	120.48	44.42	-88.64	-5,909.42	4,164.30	3,909.44	3,748.38	161.06	24.274		

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-20-3N
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-20-3N	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
13,400.00	7,806.87	7,954.76	7,630.45	122.21	44.42	-88.62	-5,909.44	4,164.27	3,928.69	3,766.65	162.04	24.245 SF					
13,500.00	7,806.87	7,953.41	7,629.10	123.94	44.42	-88.60	-5,909.46	4,164.24	3,950.38	3,787.45	162.93	24.246					
13,600.00	7,806.87	7,952.05	7,627.75	125.66	44.41	-88.58	-5,909.48	4,164.21	3,974.48	3,810.74	163.74	24.274					
13,700.00	7,806.86	7,950.69	7,626.39	127.39	44.41	-88.56	-5,909.50	4,164.18	4,000.92	3,836.46	164.46	24.328					
13,800.00	7,806.86	7,949.32	7,625.02	129.12	44.41	-88.54	-5,909.53	4,164.16	4,029.67	3,864.58	165.09	24.409					
13,900.00	7,806.86	7,947.95	7,623.64	130.85	44.41	-88.52	-5,909.55	4,164.13	4,060.69	3,895.04	165.65	24.514					
14,000.00	7,806.86	7,946.57	7,622.26	132.59	44.40	-88.50	-5,909.57	4,164.10	4,093.90	3,927.78	166.12	24.644					
14,100.00	7,806.85	7,945.18	7,620.87	134.32	44.40	-88.48	-5,909.59	4,164.07	4,129.28	3,962.76	166.52	24.797					
14,200.00	7,806.85	7,943.78	7,619.48	136.06	44.40	-88.46	-5,909.62	4,164.04	4,166.75	3,999.90	166.85	24.973					
14,300.00	7,806.85	7,942.38	7,618.08	137.79	44.40	-88.44	-5,909.64	4,164.02	4,206.27	4,039.16	167.11	25.171					
14,400.00	7,806.85	7,940.97	7,616.67	139.53	44.39	-88.42	-5,909.66	4,163.99	4,247.78	4,080.47	167.30	25.390					
14,500.00	7,806.84	7,939.56	7,615.26	141.27	44.39	-88.40	-5,909.68	4,163.96	4,291.21	4,123.77	167.44	25.629					
14,600.00	7,806.84	7,938.14	7,613.84	143.00	44.39	-88.37	-5,909.71	4,163.93	4,336.51	4,169.00	167.51	25.888					
14,700.00	7,806.84	7,936.71	7,612.41	144.74	44.39	-88.35	-5,909.73	4,163.90	4,383.63	4,216.10	167.53	26.166					
14,800.00	7,806.84	7,935.27	7,610.97	146.48	44.38	-88.33	-5,909.75	4,163.87	4,432.50	4,265.00	167.50	26.462					
14,900.00	7,806.83	7,933.83	7,609.53	148.22	44.38	-88.31	-5,909.78	4,163.85	4,483.07	4,315.64	167.43	26.776					
15,000.00	7,806.83	7,932.38	7,608.08	149.97	44.38	-88.29	-5,909.80	4,163.82	4,535.28	4,367.97	167.31	27.107					
15,100.00	7,806.83	7,930.93	7,606.63	151.71	44.38	-88.27	-5,909.82	4,163.79	4,589.07	4,421.92	167.15	27.455					
15,200.00	7,806.83	7,929.46	7,605.16	153.45	44.37	-88.25	-5,909.85	4,163.76	4,644.40	4,477.44	166.96	27.818					
15,300.00	7,806.82	7,927.99	7,603.69	155.19	44.37	-88.22	-5,909.87	4,163.73	4,701.20	4,534.47	166.73	28.197					
15,400.00	7,806.82	7,926.52	7,602.22	156.94	44.37	-88.20	-5,909.90	4,163.70	4,759.42	4,592.95	166.47	28.590					
15,500.00	7,806.82	7,925.03	7,600.73	158.68	44.37	-88.18	-5,909.92	4,163.68	4,819.02	4,652.83	166.18	28.998					
15,600.00	7,806.82	7,923.54	7,599.24	160.43	44.36	-88.16	-5,909.95	4,163.65	4,879.93	4,714.06	165.87	29.419					
15,700.00	7,806.81	7,922.04	7,597.74	162.18	44.36	-88.14	-5,909.97	4,163.62	4,942.12	4,776.58	165.54	29.854					
15,800.00	7,806.81	7,920.53	7,596.24	163.92	44.36	-88.11	-5,910.00	4,163.59	5,005.53	4,840.35	165.19	30.302					
15,900.00	7,806.81	7,919.02	7,594.72	165.67	44.36	-88.09	-5,910.02	4,163.56	5,070.13	4,905.31	164.82	30.762					
16,000.00	7,806.81	7,917.50	7,593.20	167.42	44.35	-88.07	-5,910.05	4,163.53	5,135.85	4,971.42	164.44	31.233					
16,100.00	7,806.80	7,915.97	7,591.67	169.17	44.35	-88.04	-5,910.07	4,163.50	5,202.67	5,038.63	164.04	31.716					
16,200.00	7,806.80	7,914.43	7,590.14	170.91	44.35	-88.02	-5,910.10	4,163.47	5,270.54	5,106.91	163.63	32.210					
16,300.00	7,806.80	7,912.89	7,588.59	172.66	44.35	-88.00	-5,910.13	4,163.45	5,339.42	5,176.21	163.21	32.715					
16,400.00	7,806.80	7,911.33	7,587.04	174.41	44.34	-87.98	-5,910.15	4,163.42	5,409.26	5,246.48	162.78	33.230					
16,500.00	7,806.79	7,909.77	7,585.48	176.16	44.34	-87.95	-5,910.18	4,163.39	5,480.05	5,317.70	162.35	33.755					
16,600.00	7,806.79	7,908.21	7,583.91	177.92	44.34	-87.93	-5,910.20	4,163.36	5,551.73	5,389.82	161.91	34.290					
16,700.00	7,806.79	7,906.63	7,582.34	179.67	44.33	-87.91	-5,910.23	4,163.33	5,624.27	5,462.81	161.46	34.833					
16,800.00	7,806.79	7,905.05	7,580.76	181.42	44.33	-87.88	-5,910.26	4,163.30	5,697.65	5,536.63	161.01	35.386					
16,900.00	7,806.78	7,903.46	7,579.16	183.17	44.33	-87.86	-5,910.29	4,163.27	5,771.82	5,611.26	160.57	35.947					
17,000.00	7,806.78	7,901.86	7,577.57	184.92	44.33	-87.83	-5,910.31	4,163.24	5,846.77	5,686.65	160.11	36.516					
17,100.00	7,806.78	7,900.25	7,575.96	186.68	44.32	-87.81	-5,910.34	4,163.21	5,922.45	5,762.79	159.66	37.093					
17,200.00	7,806.78	7,898.63	7,574.34	188.43	44.32	-87.79	-5,910.37	4,163.19	5,998.85	5,839.64	159.21	37.678					
17,300.00	7,806.77	7,897.01	7,572.72	190.18	44.32	-87.76	-5,910.40	4,163.16	6,075.93	5,917.17	158.76	38.271					
17,400.00	7,806.77	7,895.38	7,571.09	191.94	44.31	-87.74	-5,910.43	4,163.13	6,153.67	5,995.36	158.31	38.870					
17,500.00	7,806.77	7,893.73	7,569.45	193.69	44.31	-87.71	-5,910.45	4,163.10	6,232.04	6,074.18	157.87	39.476					
17,600.00	7,806.77	7,892.08	7,567.80	195.45	44.31	-87.69	-5,910.48	4,163.07	6,311.03	6,153.60	157.42	40.089					
17,700.00	7,806.76	7,890.43	7,566.14	197.20	44.31	-87.66	-5,910.51	4,163.04	6,390.60	6,233.62	156.98	40.709					
17,800.00	7,806.76	7,888.76	7,564.47	198.96	44.30	-87.64	-5,910.54	4,163.01	6,470.74	6,314.19	156.55	41.334					
17,877.44	7,807.00	7,887.69	7,563.41	200.32	44.30	-87.62	-5,910.56	4,162.99	6,533.14	6,376.93	156.21	41.823					

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	129.88	-3,975.73	4,758.54	6,201.37					
100.00	100.00	18.29	18.29	0.13	0.03	129.88	-3,975.73	4,758.54	6,200.81	6,200.65	0.17	N/A		
200.00	200.00	125.87	125.87	0.49	0.22	129.88	-3,975.74	4,758.41	6,200.73	6,200.02	0.72	8,653.861		
300.00	300.00	233.46	233.46	0.85	0.41	129.88	-3,975.78	4,758.09	6,200.53	6,199.26	1.27	4,897.228		
400.00	400.00	341.04	341.04	1.21	0.61	129.89	-3,975.84	4,757.58	6,200.20	6,198.39	1.82	3,414.727		
500.00	500.00	448.62	448.62	1.57	0.80	129.89	-3,975.93	4,756.88	6,199.75	6,197.39	2.37	2,621.120		
600.00	600.00	556.20	556.19	1.93	0.99	129.90	-3,976.04	4,755.99	6,199.18	6,196.27	2.91	2,126.738		
700.00	700.00	663.77	663.76	2.29	1.18	129.90	-3,976.17	4,754.90	6,198.49	6,195.02	3.46	1,789.178		
800.00	800.00	771.34	771.32	2.64	1.37	129.91	-3,976.33	4,753.63	6,197.67	6,193.66	4.01	1,544.025		
900.00	900.00	878.91	878.87	3.00	1.56	129.92	-3,976.51	4,752.16	6,196.74	6,192.17	4.56	1,357.893		
1,000.00	1,000.00	986.46	986.42	3.36	1.75	129.93	-3,976.71	4,750.51	6,195.68	6,190.56	5.11	1,211.752		
1,100.00	1,100.00	1,094.02	1,093.96	3.72	1.95	129.95	-3,976.94	4,748.66	6,194.49	6,188.83	5.66	1,093.957		
1,200.00	1,200.00	1,201.56	1,201.48	4.08	2.14	129.96	-3,977.19	4,746.62	6,193.19	6,186.98	6.21	996.985		
1,300.00	1,300.00	1,300.17	1,300.07	4.44	2.58	129.97	-3,977.41	4,744.76	6,191.88	6,184.87	7.01	883.068		
1,400.00	1,400.00	1,415.11	1,414.99	4.79	2.99	129.99	-3,977.58	4,742.47	6,190.46	6,182.68	7.78	795.314		
1,500.00	1,499.98	1,536.86	1,536.70	5.14	3.43	-33.80	-3,977.56	4,739.70	6,187.26	6,178.70	8.56	722.620		
1,600.00	1,599.84	1,648.77	1,648.58	5.46	3.84	-33.89	-3,977.34	4,736.85	6,180.83	6,171.54	9.29	665.207		
1,700.00	1,699.45	1,730.32	1,730.10	5.80	4.13	-34.02	-3,977.17	4,734.85	6,171.58	6,161.67	9.92	622.382		
1,800.00	1,798.70	1,804.06	1,803.83	6.14	4.39	-34.19	-3,977.01	4,733.36	6,159.80	6,149.29	10.52	585.700		
1,900.00	1,897.47	1,863.19	1,862.95	6.49	4.61	-34.39	-3,976.93	4,732.54	6,145.70	6,134.63	11.07	555.161		
1,969.08	1,965.35	1,893.37	1,893.13	6.75	4.71	-34.55	-3,976.84	4,732.45	6,134.76	6,123.34	11.42	537.412		
2,000.00	1,995.66	1,910.16	1,909.93	6.86	4.77	-34.57	-3,976.76	4,732.50	6,129.68	6,118.10	11.58	529.314		
2,100.00	2,093.69	1,970.86	1,970.62	7.25	4.96	-34.64	-3,976.40	4,733.10	6,113.70	6,101.57	12.13	503.950		
2,200.00	2,191.72	2,075.23	2,074.97	7.65	5.31	-34.77	-3,975.22	4,734.87	6,097.96	6,085.12	12.83	475.109		
2,300.00	2,289.76	2,176.05	2,175.73	8.07	5.64	-34.91	-3,972.97	4,737.42	6,082.19	6,068.65	13.54	449.280		
2,400.00	2,387.79	2,261.01	2,260.61	8.49	5.93	-35.04	-3,970.40	4,740.18	6,066.52	6,052.32	14.20	427.331		
2,500.00	2,485.82	2,373.62	2,373.08	8.91	6.31	-35.21	-3,966.73	4,744.15	6,050.96	6,036.00	14.96	404.591		
2,600.00	2,583.86	2,465.29	2,464.66	9.35	6.62	-35.35	-3,963.73	4,747.26	6,035.30	6,019.65	15.65	385.598		
2,700.00	2,681.89	2,558.20	2,557.45	9.79	6.94	-35.50	-3,960.46	4,750.71	6,019.80	6,003.44	16.36	368.000		
2,800.00	2,779.92	2,644.10	2,643.21	10.24	7.24	-35.64	-3,957.36	4,754.15	6,004.50	5,987.46	17.05	352.255		
2,900.00	2,877.96	2,753.00	2,751.99	10.69	7.62	-35.81	-3,953.96	4,758.03	5,989.22	5,971.40	17.82	336.155		
3,000.00	2,975.99	2,879.55	2,878.49	11.14	8.06	-35.99	-3,951.27	4,760.90	5,973.57	5,954.92	18.65	320.278		
3,100.00	3,074.02	2,982.21	2,981.12	11.60	8.42	-36.12	-3,950.03	4,762.00	5,957.60	5,938.19	19.41	306.990		
3,200.00	3,172.06	3,064.67	3,063.57	12.06	8.70	-36.23	-3,949.03	4,763.24	5,941.97	5,921.87	20.10	295.676		
3,300.00	3,270.09	3,172.80	3,171.64	12.52	9.09	-36.39	-3,946.29	4,765.77	5,926.23	5,905.35	20.88	283.849		
3,400.00	3,368.12	3,284.49	3,283.17	12.98	9.48	-36.57	-3,941.80	4,769.55	5,910.47	5,888.79	21.68	272.650		
3,500.00	3,466.16	3,375.72	3,374.23	13.45	9.81	-36.73	-3,937.40	4,772.97	5,894.55	5,872.14	22.41	263.016		
3,600.00	3,564.19	3,453.75	3,452.11	13.92	10.09	-36.87	-3,933.70	4,776.11	5,878.95	5,855.85	23.10	254.479		
3,700.00	3,662.23	3,532.34	3,530.56	14.39	10.37	-37.01	-3,930.32	4,779.36	5,863.74	5,839.94	23.80	246.412		
3,800.00	3,760.26	3,634.75	3,632.79	14.86	10.73	-37.19	-3,926.20	4,783.66	5,848.80	5,824.23	24.58	237.991		
3,900.00	3,858.29	3,758.64	3,756.45	15.34	11.18	-37.41	-3,920.39	4,788.69	5,833.39	5,807.95	25.43	229.364		
4,000.00	3,956.33	3,894.66	3,892.18	15.81	11.67	-37.66	-3,913.34	4,794.01	5,817.66	5,791.33	26.33	220.912		
4,100.00	4,054.36	3,975.47	3,972.83	16.29	11.96	-37.80	-3,909.23	4,796.88	5,801.77	5,774.72	27.05	214.502		
4,200.00	4,152.39	4,037.17	4,034.41	16.77	12.19	-37.92	-3,906.27	4,799.29	5,786.35	5,758.65	27.70	208.926		
4,300.00	4,250.43	4,124.22	4,121.32	17.25	12.50	-38.07	-3,902.73	4,802.80	5,771.51	5,743.08	28.43	202.989		
4,400.00	4,348.46	4,210.37	4,207.31	17.73	12.81	-38.23	-3,898.91	4,806.40	5,756.66	5,727.49	29.17	197.359		
4,500.00	4,446.49	4,279.56	4,276.36	18.21	13.06	-38.36	-3,895.88	4,809.71	5,742.35	5,712.50	29.85	192.391		
4,600.00	4,544.53	4,386.90	4,383.48	18.69	13.46	-38.56	-3,891.38	4,814.93	5,728.27	5,697.61	30.66	186.826		
4,700.00	4,642.56	4,498.33	4,494.64	19.17	13.86	-38.77	-3,885.97	4,820.35	5,713.86	5,682.37	31.49	181.439		
4,800.00	4,740.59	4,605.07	4,601.09	19.65	14.25	-38.98	-3,880.36	4,825.88	5,699.57	5,667.26	32.31	176.407		
4,900.00	4,838.63	4,786.29	4,782.10	20.13	14.91	-39.30	-3,873.85	4,830.86	5,684.25	5,650.88	33.37	170.319		
5,000.00	4,936.66	4,873.53	4,869.27	20.62	15.22	-39.44	-3,870.76	4,832.53	5,668.43	5,634.31	34.12	166.133		

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-20-3N
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-20-3N	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	5,034.69	4,943.64	4,939.30	21.10	15.48	-39.57	-3,868.01	4,834.42	5,653.05	5,618.24	34.81	162.395		
5,200.00	5,132.73	5,016.61	5,012.16	21.59	15.74	-39.70	-3,864.93	4,836.95	5,638.18	5,602.67	35.51	158.763		
5,300.00	5,230.76	5,120.77	5,116.11	22.07	16.12	-39.91	-3,859.89	4,841.36	5,623.66	5,587.33	36.33	154.810		
5,400.00	5,328.79	5,214.50	5,209.61	22.56	16.47	-40.09	-3,854.87	4,845.35	5,608.92	5,571.82	37.11	151.160		
5,500.00	5,426.83	5,283.72	5,278.69	23.04	16.72	-40.23	-3,851.51	4,848.33	5,594.58	5,556.78	37.80	147.999		
5,600.00	5,524.86	5,346.28	5,341.12	23.53	16.95	-40.35	-3,848.78	4,851.29	5,580.89	5,542.42	38.47	145.056		
5,700.00	5,622.89	5,431.25	5,425.90	24.02	17.26	-40.52	-3,845.27	4,855.60	5,567.67	5,528.44	39.23	141.941		
5,800.00	5,720.93	5,544.03	5,538.42	24.50	17.68	-40.75	-3,840.27	4,861.54	5,554.51	5,514.44	40.08	138.599		
5,900.00	5,818.96	5,669.77	5,663.84	24.99	18.14	-41.01	-3,833.96	4,867.99	5,540.99	5,500.01	40.97	135.230		
6,000.00	5,916.99	5,776.05	5,769.91	25.48	18.53	-41.22	-3,829.22	4,872.57	5,527.17	5,485.37	41.80	132.216		
6,100.00	6,015.03	5,893.01	5,886.63	25.97	18.96	-41.45	-3,823.74	4,877.61	5,513.30	5,470.63	42.67	129.205		
6,200.00	6,113.06	5,993.41	5,986.83	26.45	19.33	-41.66	-3,818.83	4,881.66	5,499.16	5,455.68	43.48	126.467		
6,300.00	6,211.09	6,078.46	6,071.70	26.94	19.64	-41.83	-3,814.66	4,885.21	5,485.20	5,440.96	44.24	123.977		
6,400.00	6,309.13	6,159.40	6,152.48	27.43	19.94	-42.00	-3,810.87	4,888.73	5,471.56	5,426.57	44.99	121.615		
6,500.00	6,407.16	6,279.10	6,271.98	27.92	20.38	-42.23	-3,806.03	4,893.61	5,458.13	5,412.26	45.87	118.994		
6,600.00	6,505.19	6,400.90	6,393.68	28.41	20.82	-42.46	-3,802.34	4,896.80	5,444.00	5,397.25	46.75	116.457		
6,664.73	6,568.65	6,459.75	6,452.52	28.73	21.03	-42.55	-3,801.57	4,897.68	5,434.87	5,387.63	47.25	115.034		
6,700.00	6,603.27	6,509.45	6,502.21	28.90	21.21	-42.56	-3,801.17	4,898.20	5,430.03	5,382.46	47.57	114.144		
6,800.00	6,701.84	6,618.56	6,611.31	29.36	21.59	-42.54	-3,800.25	4,898.97	5,417.72	5,369.34	48.38	111.985		
6,900.00	6,800.94	6,704.37	6,697.12	29.78	21.89	-42.50	-3,799.87	4,899.43	5,408.07	5,358.98	49.09	110.169		
7,000.00	6,900.45	6,794.34	6,787.09	30.17	22.21	-42.47	-3,799.72	4,900.06	5,401.26	5,351.47	49.79	108.486		
7,100.00	7,000.24	6,893.60	6,886.35	30.53	22.55	-42.47	-3,799.52	4,900.85	5,397.10	5,346.61	50.49	106.890		
7,200.00	7,100.19	6,992.77	6,985.51	30.85	22.90	-42.47	-3,799.46	4,901.55	5,395.52	5,344.35	51.17	105.438		
7,210.84	7,111.03	7,003.37	6,996.12	30.88	22.93	-42.47	-3,799.46	4,901.63	5,395.50	5,344.26	51.24	105.294		
7,233.81	7,134.00	7,025.84	7,018.59	30.95	23.01	121.28	-3,799.46	4,901.79	5,395.57	5,344.18	51.39	104.991		
7,300.00	7,200.19	7,090.32	7,083.07	31.12	23.24	121.28	-3,799.49	4,902.23	5,395.98	5,344.17	51.81	104.158		
7,333.81	7,234.00	7,123.27	7,116.01	31.21	23.35	121.28	-3,799.52	4,902.46	5,396.20	5,344.18	52.02	103.737		
7,350.00	7,250.18	7,135.74	7,128.48	31.26	23.39	-58.38	-3,799.54	4,902.55	5,396.19	5,344.07	52.11	103.547		
7,400.00	7,300.04	7,175.45	7,168.19	31.44	23.53	-58.54	-3,799.58	4,902.90	5,394.71	5,342.27	52.44	102.873		
7,450.00	7,349.39	7,216.00	7,208.74	31.66	23.67	-58.91	-3,799.63	4,903.35	5,391.06	5,338.26	52.80	102.098		
7,500.00	7,397.87	7,259.91	7,252.64	31.92	23.82	-59.51	-3,799.73	4,903.87	5,385.24	5,332.04	53.21	101.216		
7,550.00	7,445.09	7,304.18	7,296.91	32.22	23.97	-60.35	-3,799.95	4,904.34	5,377.29	5,323.66	53.64	100.250		
7,600.00	7,490.72	7,336.80	7,329.53	32.55	24.09	-61.36	-3,800.18	4,904.71	5,367.33	5,313.27	54.06	99.279		
7,650.00	7,534.38	7,366.22	7,358.95	32.92	24.19	-62.57	-3,800.41	4,905.11	5,355.52	5,301.02	54.50	98.259		
7,700.00	7,575.77	7,394.16	7,386.88	33.32	24.28	-63.99	-3,800.65	4,905.57	5,341.97	5,287.01	54.97	97.185		
7,750.00	7,614.55	7,422.80	7,415.51	33.75	24.38	-65.61	-3,800.93	4,906.10	5,326.81	5,271.36	55.46	96.053		
7,800.00	7,650.43	7,451.26	7,443.97	34.22	24.48	-67.44	-3,801.26	4,906.65	5,310.16	5,254.19	55.97	94.874		
7,850.00	7,683.15	7,477.38	7,470.08	34.71	24.57	-69.44	-3,801.62	4,907.17	5,292.18	5,235.68	56.50	93.666		
7,900.00	7,712.45	7,502.00	7,494.69	35.23	24.65	-71.62	-3,802.00	4,907.67	5,273.03	5,215.98	57.05	92.431		
7,950.00	7,738.11	7,522.80	7,515.48	35.78	24.72	-73.92	-3,802.36	4,908.09	5,252.90	5,195.29	57.60	91.189		
8,000.00	7,759.93	7,541.67	7,534.34	36.35	24.79	-76.34	-3,802.71	4,908.48	5,231.96	5,173.79	58.17	89.936		
8,050.00	7,777.75	7,557.33	7,550.00	36.93	24.84	-78.85	-3,803.02	4,908.80	5,210.42	5,151.67	58.75	88.684		
8,100.00	7,791.43	7,569.64	7,562.30	37.53	24.88	-81.40	-3,803.28	4,909.06	5,188.46	5,129.12	59.34	87.441		
8,150.00	7,800.87	7,578.48	7,571.14	38.14	24.91	-83.96	-3,803.47	4,909.24	5,166.28	5,106.35	59.92	86.215		
8,200.00	7,806.00	7,583.74	7,576.40	38.76	24.93	-86.49	-3,803.59	4,909.35	5,144.06	5,083.55	60.51	85.014		
8,233.89	7,807.00	7,585.24	7,577.90	39.18	24.94	-88.18	-3,803.62	4,909.38	5,129.07	5,068.17	60.90	84.218		
8,300.00	7,807.00	7,586.53	7,579.18	40.00	24.94	-88.20	-3,803.65	4,909.41	5,100.28	5,038.60	61.69	82.683		
8,400.00	7,807.00	7,588.49	7,581.15	41.29	24.95	-88.22	-3,803.70	4,909.45	5,058.07	4,995.14	62.93	80.375		
8,500.00	7,806.99	7,590.48	7,583.14	42.60	24.95	-88.25	-3,803.75	4,909.49	5,017.49	4,953.25	64.25	78.098		
8,600.00	7,806.99	7,592.50	7,585.15	43.95	24.96	-88.27	-3,803.79	4,909.53	4,978.60	4,912.97	65.62	75.864		
8,700.00	7,806.99	7,594.54	7,587.20	45.33	24.97	-88.30	-3,803.84	4,909.57	4,941.41	4,874.35	67.06	73.682		
8,800.00	7,806.99	7,596.61	7,589.27	46.74	24.97	-88.32	-3,803.89	4,909.61	4,905.99	4,837.43	68.56	71.560		

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-20-3N
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-20-3N	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	7,806.98	7,599.72	7,592.37	48.17	24.98	-88.36	-3,803.96	4,909.68	4,872.35	4,802.25	70.11	69.501		
9,000.00	7,806.98	7,602.96	7,595.61	49.62	25.00	-88.40	-3,804.04	4,909.74	4,840.55	4,768.85	71.70	67.512		
9,100.00	7,806.98	7,606.11	7,598.75	51.09	25.01	-88.44	-3,804.11	4,909.81	4,810.62	4,737.28	73.33	65.599		
9,200.00	7,806.98	7,609.16	7,601.81	52.59	25.02	-88.48	-3,804.18	4,909.87	4,782.59	4,707.58	75.00	63.764		
9,300.00	7,806.97	7,612.13	7,604.78	54.09	25.03	-88.52	-3,804.24	4,909.93	4,756.49	4,679.78	76.71	62.009		
9,400.00	7,806.97	7,615.02	7,607.67	55.62	25.04	-88.55	-3,804.31	4,909.99	4,732.36	4,653.93	78.44	60.334		
9,500.00	7,806.97	7,617.83	7,610.48	57.16	25.05	-88.59	-3,804.37	4,910.05	4,710.23	4,630.05	80.19	58.740		
9,600.00	7,806.97	7,620.57	7,613.21	58.71	25.06	-88.62	-3,804.43	4,910.10	4,690.13	4,608.17	81.96	57.227		
9,700.00	7,806.96	7,623.23	7,615.87	60.27	25.07	-88.65	-3,804.48	4,910.15	4,672.08	4,588.34	83.74	55.792		
9,800.00	7,806.96	7,625.82	7,618.46	61.84	25.07	-88.69	-3,804.54	4,910.21	4,656.11	4,570.58	85.53	54.436		
9,900.00	7,806.96	7,628.34	7,620.98	63.43	25.08	-88.72	-3,804.59	4,910.26	4,642.24	4,554.91	87.33	53.157		
10,000.00	7,806.96	7,630.80	7,623.44	65.02	25.09	-88.75	-3,804.64	4,910.30	4,630.48	4,541.35	89.13	51.952		
10,100.00	7,806.95	7,633.20	7,625.83	66.63	25.10	-88.78	-3,804.68	4,910.35	4,620.86	4,529.93	90.92	50.821		
10,200.00	7,806.95	7,635.53	7,628.17	68.24	25.11	-88.81	-3,804.73	4,910.40	4,613.38	4,520.67	92.71	49.760		
10,300.00	7,806.95	7,637.81	7,630.45	69.86	25.11	-88.84	-3,804.78	4,910.44	4,608.07	4,513.58	94.49	48.768		
10,400.00	7,806.95	7,640.03	7,632.67	71.49	25.12	-88.86	-3,804.82	4,910.49	4,604.91	4,508.66	96.25	47.843		
10,495.30	7,806.94	7,642.10	7,634.74	73.05	25.13	-88.89	-3,804.86	4,910.53	4,603.93	4,506.01	97.91	47.021 CC		
10,500.00	7,806.94	7,642.20	7,634.84	73.12	25.13	-88.89	-3,804.86	4,910.53	4,603.93	4,505.94	97.99	46.982		
10,600.00	7,806.94	7,644.32	7,636.95	74.76	25.14	-88.92	-3,804.90	4,910.57	4,605.12	4,505.40	99.71	46.183 ES		
10,700.00	7,806.94	7,646.39	7,639.02	76.41	25.14	-88.94	-3,804.94	4,910.61	4,608.47	4,507.06	101.41	45.443		
10,800.00	7,806.94	7,648.41	7,641.04	78.06	25.15	-88.97	-3,804.97	4,910.65	4,613.99	4,510.92	103.08	44.761		
10,900.00	7,806.93	7,650.38	7,643.01	79.72	25.16	-88.99	-3,805.01	4,910.69	4,621.67	4,516.96	104.72	44.135		
11,000.00	7,806.93	7,652.31	7,644.94	81.38	25.16	-89.02	-3,805.04	4,910.72	4,631.50	4,525.18	106.32	43.561		
11,100.00	7,806.93	7,654.20	7,646.83	83.05	25.17	-89.04	-3,805.08	4,910.76	4,643.45	4,535.56	107.89	43.039		
11,200.00	7,806.93	7,656.04	7,648.67	84.72	25.18	-89.06	-3,805.11	4,910.80	4,657.53	4,548.11	109.42	42.565		
11,300.00	7,806.92	7,657.84	7,650.47	86.39	25.18	-89.09	-3,805.14	4,910.83	4,673.70	4,562.79	110.91	42.139		
11,400.00	7,806.92	7,659.60	7,652.23	88.07	25.19	-89.11	-3,805.17	4,910.86	4,691.94	4,579.58	112.36	41.757		
11,500.00	7,806.92	7,661.33	7,653.96	89.75	25.19	-89.13	-3,805.20	4,910.90	4,712.24	4,598.47	113.77	41.419		
11,600.00	7,806.92	7,663.02	7,655.65	91.44	25.20	-89.15	-3,805.23	4,910.93	4,734.56	4,619.43	115.13	41.123		
11,700.00	7,806.91	7,664.67	7,657.30	93.13	25.21	-89.17	-3,805.26	4,910.96	4,758.88	4,642.43	116.45	40.866		
11,800.00	7,806.91	7,666.29	7,658.92	94.82	25.21	-89.19	-3,805.28	4,910.99	4,785.15	4,667.44	117.72	40.647		
11,900.00	7,806.91	7,667.88	7,660.50	96.52	25.22	-89.21	-3,805.31	4,911.02	4,813.38	4,694.43	118.95	40.465		
12,000.00	7,806.91	7,669.43	7,662.05	98.21	25.22	-89.23	-3,805.33	4,911.05	4,843.50	4,723.37	120.13	40.318		
12,100.00	7,806.90	7,670.95	7,663.57	99.91	25.23	-89.25	-3,805.36	4,911.08	4,875.48	4,754.21	121.27	40.204		
12,200.00	7,806.90	7,672.44	7,665.06	101.62	25.23	-89.27	-3,805.38	4,911.11	4,909.29	4,786.94	122.36	40.122		
12,300.00	7,806.90	7,673.90	7,666.53	103.32	25.24	-89.29	-3,805.40	4,911.13	4,944.90	4,821.50	123.40	40.072		
12,400.00	7,806.90	7,675.34	7,667.96	105.03	25.24	-89.30	-3,805.43	4,911.16	4,982.25	4,857.85	124.40	40.050 SF		
12,500.00	7,806.89	7,676.74	7,669.36	106.74	25.25	-89.32	-3,805.45	4,911.19	5,021.32	4,895.97	125.35	40.058		
12,600.00	7,806.89	7,678.12	7,670.74	108.45	25.25	-89.34	-3,805.47	4,911.21	5,062.06	4,935.80	126.26	40.092		
12,700.00	7,806.89	7,679.47	7,672.09	110.17	25.26	-89.35	-3,805.49	4,911.24	5,104.44	4,977.31	127.13	40.152		
12,800.00	7,806.89	7,680.80	7,673.42	111.88	25.26	-89.37	-3,805.51	4,911.26	5,148.41	5,020.46	127.95	40.237		
12,900.00	7,806.88	7,682.10	7,674.72	113.60	25.27	-89.39	-3,805.53	4,911.29	5,193.93	5,065.20	128.73	40.346		
13,000.00	7,806.88	7,683.37	7,675.99	115.32	25.27	-89.40	-3,805.55	4,911.31	5,240.97	5,111.49	129.48	40.478		
13,100.00	7,806.88	7,684.63	7,677.25	117.04	25.27	-89.42	-3,805.56	4,911.33	5,289.47	5,159.29	130.18	40.632		
13,200.00	7,806.88	7,685.86	7,678.48	118.76	25.28	-89.43	-3,805.58	4,911.35	5,339.41	5,208.57	130.84	40.808		
13,300.00	7,806.87	7,687.07	7,679.69	120.48	25.28	-89.45	-3,805.60	4,911.38	5,390.74	5,259.27	131.47	41.003		
13,400.00	7,806.87	7,688.26	7,680.87	122.21	25.29	-89.46	-3,805.61	4,911.40	5,443.43	5,311.36	132.06	41.218		
13,500.00	7,806.87	7,689.42	7,682.04	123.94	25.29	-89.48	-3,805.63	4,911.42	5,497.43	5,364.80	132.62	41.451		
13,600.00	7,806.87	7,690.57	7,683.19	125.66	25.29	-89.49	-3,805.65	4,911.44	5,552.70	5,419.55	133.15	41.703		
13,700.00	7,806.86	7,692.00	7,684.62	127.39	25.30	-89.51	-3,805.67	4,911.47	5,609.21	5,475.57	133.64	41.971		
13,800.00	7,806.86	7,692.97	7,685.59	129.12	25.30	-89.52	-3,805.68	4,911.48	5,666.92	5,532.82	134.11	42.257		
13,900.00	7,806.86	7,694.31	7,686.93	130.85	25.31	-89.54	-3,805.70	4,911.51	5,725.80	5,591.26	134.54	42.557		

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-20-3N
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-20-3N	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	7,806.86	7,695.65	7,688.27	132.59	25.31	-89.56	-3,805.72	4,911.53	5,785.81	5,650.86	134.95	42.873		
14,100.00	7,806.85	7,696.98	7,689.60	134.32	25.32	-89.57	-3,805.73	4,911.56	5,846.91	5,711.58	135.33	43.204		
14,200.00	7,806.85	7,698.31	7,690.92	136.06	25.32	-89.59	-3,805.75	4,911.58	5,909.07	5,773.38	135.69	43.549		
14,300.00	7,806.85	7,699.63	7,692.24	137.79	25.33	-89.61	-3,805.77	4,911.61	5,972.26	5,836.24	136.02	43.907		
14,400.00	7,806.85	7,700.94	7,693.56	139.53	25.33	-89.62	-3,805.79	4,911.63	6,036.44	5,900.11	136.33	44.279		
14,500.00	7,806.84	7,702.26	7,694.87	141.27	25.33	-89.64	-3,805.80	4,911.65	6,101.59	5,964.97	136.61	44.663		
14,600.00	7,806.84	7,703.56	7,696.18	143.00	25.34	-89.65	-3,805.82	4,911.68	6,167.67	6,030.79	136.88	45.059		
14,700.00	7,806.84	7,704.87	7,697.48	144.74	25.34	-89.67	-3,805.84	4,911.70	6,234.65	6,097.52	137.13	45.467		
14,800.00	7,806.84	7,706.17	7,698.78	146.48	25.35	-89.69	-3,805.86	4,911.72	6,302.51	6,165.16	137.35	45.885		
14,900.00	7,806.83	7,707.46	7,700.07	148.22	25.35	-89.70	-3,805.87	4,911.75	6,371.21	6,233.65	137.56	46.315		
15,000.00	7,806.83	7,708.75	7,701.36	149.97	25.36	-89.72	-3,805.89	4,911.77	6,440.74	6,302.98	137.75	46.755		
15,100.00	7,806.83	7,710.03	7,702.65	151.71	25.36	-89.74	-3,805.91	4,911.79	6,511.05	6,373.12	137.93	47.205		
15,200.00	7,806.83	7,711.32	7,703.93	153.45	25.37	-89.75	-3,805.92	4,911.82	6,582.14	6,444.05	138.09	47.665		
15,300.00	7,806.82	7,712.59	7,705.20	155.19	25.37	-89.77	-3,805.94	4,911.84	6,653.97	6,515.73	138.24	48.134		
15,400.00	7,806.82	7,713.86	7,706.48	156.94	25.37	-89.78	-3,805.96	4,911.86	6,726.51	6,588.14	138.37	48.611		
15,500.00	7,806.82	7,715.13	7,707.74	158.68	25.38	-89.80	-3,805.97	4,911.88	6,799.76	6,661.26	138.49	49.098		
15,600.00	7,806.82	7,716.39	7,709.01	160.43	25.38	-89.81	-3,805.99	4,911.91	6,873.68	6,735.07	138.60	49.593		
15,700.00	7,806.81	7,717.65	7,710.27	162.18	25.39	-89.83	-3,806.01	4,911.93	6,948.25	6,809.55	138.70	50.096		
15,800.00	7,806.81	7,718.91	7,711.52	163.92	25.39	-89.85	-3,806.02	4,911.95	7,023.45	6,884.66	138.79	50.606		
15,900.00	7,806.81	7,720.16	7,712.77	165.67	25.40	-89.86	-3,806.04	4,911.97	7,099.26	6,960.40	138.86	51.124		
16,000.00	7,806.81	7,721.40	7,714.02	167.42	25.40	-89.88	-3,806.06	4,912.00	7,175.67	7,036.74	138.93	51.649		
16,100.00	7,806.80	7,722.65	7,715.26	169.17	25.40	-89.89	-3,806.07	4,912.02	7,252.65	7,113.66	138.99	52.181		
16,200.00	7,806.80	7,723.88	7,716.49	170.91	25.41	-89.91	-3,806.09	4,912.04	7,330.19	7,191.15	139.04	52.720		
16,300.00	7,806.80	7,725.12	7,717.73	172.66	25.41	-89.92	-3,806.11	4,912.06	7,408.26	7,269.18	139.08	53.265		
16,400.00	7,806.80	7,726.35	7,718.96	174.41	25.42	-89.94	-3,806.12	4,912.09	7,486.86	7,347.74	139.12	53.817		
16,500.00	7,806.79	7,727.57	7,720.18	176.16	25.42	-89.95	-3,806.14	4,912.11	7,565.96	7,426.81	139.14	54.375		
16,600.00	7,806.79	7,728.79	7,721.40	177.92	25.43	-89.97	-3,806.15	4,912.13	7,645.55	7,506.38	139.17	54.938		
16,700.00	7,806.79	7,730.01	7,722.62	179.67	25.43	-89.98	-3,806.17	4,912.15	7,725.61	7,586.43	139.18	55.507		
16,800.00	7,806.79	7,731.22	7,723.83	181.42	25.43	-90.00	-3,806.18	4,912.17	7,806.13	7,666.94	139.19	56.082		
16,900.00	7,806.78	7,732.43	7,725.04	183.17	25.44	-90.01	-3,806.20	4,912.19	7,887.10	7,747.91	139.20	56.661		
17,000.00	7,806.78	7,733.64	7,726.24	184.92	25.44	-90.03	-3,806.21	4,912.22	7,968.51	7,829.31	139.20	57.246		
17,100.00	7,806.78	7,734.84	7,727.45	186.68	25.45	-90.04	-3,806.23	4,912.24	8,050.33	7,911.13	139.19	57.836		
17,200.00	7,806.78	7,736.03	7,728.64	188.43	25.45	-90.06	-3,806.25	4,912.26	8,132.55	7,993.37	139.18	58.430		
17,300.00	7,806.77	7,737.23	7,729.83	190.18	25.45	-90.07	-3,806.26	4,912.28	8,215.17	8,076.00	139.17	59.030		
17,400.00	7,806.77	7,738.42	7,731.02	191.94	25.46	-90.09	-3,806.28	4,912.30	8,298.18	8,159.02	139.15	59.633		
17,500.00	7,806.77	7,739.60	7,732.21	193.69	25.46	-90.10	-3,806.29	4,912.32	8,381.55	8,242.42	139.13	60.241		
17,600.00	7,806.77	7,740.78	7,733.39	195.45	25.47	-90.12	-3,806.31	4,912.34	8,465.28	8,326.17	139.11	60.853		
17,700.00	7,806.76	7,741.96	7,734.56	197.20	25.47	-90.13	-3,806.32	4,912.36	8,549.37	8,410.28	139.08	61.469		
17,800.00	7,806.76	7,743.13	7,735.74	198.96	25.47	-90.15	-3,806.34	4,912.38	8,633.79	8,494.73	139.06	62.089		
17,877.44	7,807.00	7,744.26	7,736.87	200.32	25.48	-90.16	-3,806.35	4,912.40	8,699.36	8,560.32	139.03	62.571		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	129.94	-3,993.21	4,769.75	6,221.20					
100.00	100.00	0.00	0.00	0.13	0.00	129.94	-3,993.21	4,769.75	6,220.65	6,220.52	0.13	N/A		
200.00	200.00	61.00	61.00	0.49	0.09	129.94	-3,993.46	4,770.03	6,221.25	6,220.67	0.58	N/A		
300.00	300.00	93.30	93.30	0.85	0.20	129.94	-3,993.89	4,770.35	6,222.74	6,221.69	1.05	5,920.217		
400.00	400.00	187.79	187.76	1.21	0.54	129.94	-3,995.65	4,771.19	6,224.62	6,222.87	1.75	3,561.247		
500.00	500.00	254.96	254.89	1.57	0.78	129.96	-3,997.89	4,771.26	6,226.88	6,224.53	2.35	2,652.553		
600.00	600.00	324.00	323.84	1.93	1.04	129.99	-4,001.37	4,770.85	6,229.68	6,226.73	2.96	2,107.398		
700.00	700.00	360.79	360.55	2.29	1.17	130.01	-4,003.78	4,770.55	6,233.27	6,229.82	3.45	1,807.118		
800.00	800.00	434.90	434.42	2.64	1.45	130.05	-4,009.69	4,769.62	6,237.49	6,233.40	4.08	1,527.726		
900.00	900.00	489.53	488.81	3.00	1.66	130.09	-4,014.76	4,768.78	6,242.33	6,237.68	4.65	1,343.306		
1,000.00	1,000.00	523.64	522.75	3.36	1.79	130.12	-4,018.11	4,768.49	6,248.07	6,242.94	5.13	1,217.231		
1,100.00	1,100.00	556.28	555.20	3.72	1.92	130.14	-4,021.66	4,768.43	6,254.91	6,249.30	5.61	1,114.214		
1,200.00	1,200.00	584.95	583.67	4.08	2.04	130.17	-4,025.01	4,768.54	6,262.83	6,256.75	6.08	1,030.250		
1,300.00	1,300.00	614.75	613.22	4.44	2.16	130.19	-4,028.83	4,768.85	6,271.90	6,265.35	6.55	957.878		
1,400.00	1,400.00	659.00	657.06	4.79	2.34	130.23	-4,034.85	4,769.63	6,282.01	6,274.94	7.07	888.143		
1,500.00	1,499.98	705.87	703.42	5.14	2.54	-33.39	-4,041.62	4,770.54	6,291.45	6,283.85	7.59	828.795		
1,600.00	1,599.84	736.33	733.50	5.46	2.67	-33.28	-4,046.35	4,771.23	6,298.95	6,290.93	8.03	784.631		
1,700.00	1,699.45	771.77	768.45	5.80	2.83	-33.20	-4,052.15	4,772.33	6,304.65	6,296.16	8.49	742.362		
1,800.00	1,798.70	813.00	809.02	6.14	3.01	-33.14	-4,059.41	4,773.62	6,308.37	6,299.39	8.98	702.145		
1,900.00	1,897.47	877.00	871.83	6.49	3.30	-33.10	-4,071.53	4,775.52	6,309.91	6,300.32	9.59	658.247		
1,969.08	1,965.35	913.13	907.23	6.75	3.47	-33.10	-4,078.62	4,776.64	6,309.66	6,299.68	9.98	632.497		
2,000.00	1,995.66	929.24	923.02	6.86	3.55	-33.09	-4,081.81	4,777.20	6,309.35	6,299.20	10.15	621.632		
2,100.00	2,093.69	1,004.65	996.85	7.25	3.91	-33.08	-4,096.90	4,780.18	6,308.81	6,297.99	10.82	583.052		
2,200.00	2,191.72	1,152.54	1,141.47	7.65	4.63	-33.04	-4,127.51	4,784.25	6,307.85	6,296.02	11.83	533.191		
2,300.00	2,289.76	1,223.66	1,210.93	8.07	4.99	-33.01	-4,142.74	4,785.66	6,306.83	6,294.32	12.51	504.112		
2,400.00	2,387.79	1,406.47	1,389.39	8.49	5.91	-32.93	-4,182.28	4,787.96	6,305.40	6,291.69	13.72	459.728		
2,500.00	2,485.82	1,550.07	1,529.72	8.91	6.63	-32.86	-4,212.74	4,788.41	6,302.99	6,288.25	14.75	427.404		
2,600.00	2,583.86	1,598.00	1,576.53	9.35	6.87	-32.84	-4,223.08	4,788.49	6,300.66	6,285.32	15.34	410.709		
2,700.00	2,681.89	1,629.00	1,606.72	9.79	7.03	-32.82	-4,230.10	4,788.65	6,299.29	6,283.43	15.86	397.195		
2,754.52	2,735.34	1,629.00	1,606.72	10.03	7.03	-32.82	-4,230.10	4,788.65	6,299.06	6,282.99	16.06	392.159		
2,800.00	2,779.92	1,629.00	1,606.72	10.24	7.03	-32.82	-4,230.10	4,788.65	6,299.22	6,282.99	16.23	388.096		
2,900.00	2,877.96	1,661.00	1,637.76	10.69	7.20	-32.80	-4,237.87	4,789.28	6,300.37	6,283.61	16.76	375.969		
3,000.00	2,975.99	1,770.41	1,743.77	11.14	7.79	-32.74	-4,264.75	4,792.09	6,301.93	6,284.27	17.66	356.815		
3,100.00	3,074.02	1,924.69	1,893.91	11.60	8.61	-32.69	-4,299.65	4,798.31	6,303.36	6,284.59	18.77	335.894		
3,200.00	3,172.06	2,023.61	1,990.13	12.06	9.12	-32.65	-4,322.39	4,801.45	6,304.32	6,284.71	19.61	321.526		
3,300.00	3,270.09	2,152.03	2,115.56	12.52	9.78	-32.62	-4,349.36	4,807.04	6,304.80	6,284.22	20.58	306.385		
3,400.00	3,368.12	2,351.39	2,310.57	12.98	10.79	-32.57	-4,390.21	4,813.87	6,304.15	6,282.29	21.87	288.292		
3,500.00	3,466.16	2,512.08	2,468.14	13.45	11.58	-32.54	-4,421.39	4,818.41	6,302.40	6,279.43	22.97	274.321		
3,600.00	3,564.19	2,581.00	2,535.63	13.92	11.92	-32.52	-4,435.23	4,820.03	6,300.69	6,277.01	23.68	266.127		
3,700.00	3,662.23	2,627.35	2,580.96	14.39	12.16	-32.51	-4,444.87	4,821.24	6,299.57	6,275.30	24.28	259.483		
3,800.00	3,760.26	2,698.19	2,650.22	14.86	12.52	-32.49	-4,459.55	4,823.43	6,298.96	6,273.97	24.99	252.062		
3,862.30	3,821.33	2,737.60	2,688.77	15.16	12.72	-32.48	-4,467.63	4,824.96	6,298.84	6,273.43	25.41	247.883		
3,900.00	3,858.29	2,772.00	2,722.41	15.34	12.89	-32.48	-4,474.62	4,826.51	6,298.90	6,273.19	25.71	244.970		
4,000.00	3,956.33	2,917.01	2,864.45	15.81	13.61	-32.46	-4,503.27	4,832.31	6,298.17	6,271.42	26.75	235.427		
4,100.00	4,054.36	3,073.51	3,017.77	16.29	14.39	-32.43	-4,534.04	4,838.39	6,297.62	6,269.78	27.84	226.198		
4,200.00	4,152.39	3,179.78	3,121.79	16.77	14.92	-32.40	-4,555.67	4,840.52	6,295.93	6,267.21	28.72	219.218		
4,300.00	4,250.43	3,248.00	3,188.44	17.25	15.27	-32.37	-4,570.19	4,841.62	6,294.56	6,265.13	29.43	213.876		
4,400.00	4,348.46	3,400.00	3,346.16	17.73	21.03	-32.32	-4,603.50	4,844.57	6,292.97	6,258.00	34.96	179.992		
4,500.00	4,446.49	3,508.14	3,443.05	18.21	16.58	-32.29	-4,623.35	4,845.92	6,290.61	6,259.20	31.41	200.270		
4,600.00	4,544.53	3,596.80	3,529.81	18.69	17.02	-32.26	-4,641.51	4,847.32	6,288.68	6,256.47	32.21	195.223		
4,700.00	4,642.56	3,664.05	3,595.64	19.17	17.36	-32.23	-4,655.24	4,848.53	6,286.93	6,254.01	32.92	190.995		
4,800.00	4,740.59	3,724.00	3,654.29	19.65	17.67	-32.22	-4,667.51	4,850.26	6,285.93	6,252.34	33.59	187.158		

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-20-3N
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-20-3N	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		
4,900.00	4,838.63	4,076.32	4,000.90	20.13	19.33	-32.18	-4,729.81	4,858.25	6,281.32	6,245.82	35.50	176.938		
5,000.00	4,936.66	4,105.00	4,029.17	20.62	19.46	-32.18	-4,734.62	4,858.68	6,277.03	6,240.99	36.03	174.205		
5,100.00	5,034.69	4,156.87	4,080.25	21.10	19.71	-32.17	-4,743.61	4,859.84	6,273.61	6,236.95	36.66	171.124		
5,200.00	5,132.73	4,200.00	4,122.64	21.59	19.91	-32.17	-4,751.39	4,861.25	6,271.23	6,233.98	37.25	168.351		
5,300.00	5,230.76	4,422.00	4,341.23	22.07	20.95	-32.15	-4,789.72	4,866.55	6,267.08	6,228.48	38.60	162.363		
5,400.00	5,328.79	4,464.12	4,382.69	22.56	21.15	-32.15	-4,797.07	4,867.53	6,263.65	6,224.46	39.19	159.843		
5,500.00	5,426.83	4,533.46	4,451.07	23.04	21.47	-32.16	-4,808.13	4,870.82	6,260.98	6,221.11	39.88	157.002		
5,600.00	5,524.86	4,600.00	4,519.23	23.53	22.22	-32.18	-4,850.53	4,880.85	6,258.82	6,214.22	44.60	140.333		
5,700.00	5,622.89	4,856.62	4,769.85	24.02	22.94	-32.19	-4,859.67	4,882.28	6,253.94	6,211.92	42.02	148.828		
5,800.00	5,720.93	4,914.09	4,826.56	24.50	23.20	-32.19	-4,868.80	4,883.94	6,249.86	6,207.19	42.67	146.461		
5,900.00	5,818.96	5,131.45	5,040.70	24.99	24.21	-32.16	-4,906.01	4,885.89	6,245.20	6,201.20	44.00	141.950		
6,000.00	5,916.99	5,302.31	5,209.38	25.48	24.97	-32.14	-4,933.14	4,886.21	6,239.25	6,194.14	45.11	138.314		
6,100.00	6,015.03	5,374.00	5,280.32	25.97	25.28	-32.14	-4,943.44	4,886.99	6,232.80	6,186.98	45.82	136.029		
6,200.00	6,113.06	5,428.73	5,334.45	26.45	25.53	-32.14	-4,951.49	4,887.78	6,226.84	6,180.37	46.46	134.013		
6,300.00	6,211.09	5,479.55	5,384.64	26.94	25.75	-32.14	-4,959.41	4,888.57	6,221.59	6,174.50	47.09	132.110		
6,400.00	6,309.13	5,593.00	5,496.68	27.43	26.26	-32.15	-4,977.05	4,891.09	6,216.84	6,168.87	47.97	129.598		
6,500.00	6,407.16	5,637.85	5,541.02	27.92	26.46	-32.15	-4,983.65	4,892.49	6,212.20	6,163.63	48.57	127.899		
6,600.00	6,505.19	5,852.68	5,753.50	28.41	27.40	-32.20	-5,014.41	4,899.77	6,207.91	6,158.08	49.83	124.589		
6,664.73	6,568.65	6,664.73	6,153.82	28.73	30.45	-32.33	-5,056.91	4,905.82	6,202.62	6,149.66	52.96	117.112		
6,700.00	6,603.27	6,437.11	6,335.18	28.90	29.61	-32.39	-5,067.94	4,906.06	6,198.32	6,146.11	52.20	118.731		
6,800.00	6,701.84	6,658.61	6,556.53	29.36	30.31	-32.37	-5,075.71	4,904.34	6,185.53	6,132.26	53.27	116.116		
6,900.00	6,800.94	6,788.36	6,686.26	29.78	30.69	-32.32	-5,078.26	4,903.40	6,174.98	6,120.92	54.06	114.223		
7,000.00	6,900.45	6,920.39	6,818.28	30.17	31.08	-32.28	-5,079.88	4,902.30	6,166.79	6,111.96	54.83	112.472		
7,100.00	7,000.24	7,030.70	6,928.57	30.53	31.39	-32.24	-5,081.03	4,901.08	6,161.22	6,105.70	55.53	110.963		
7,200.00	7,100.19	7,140.10	7,037.96	30.85	31.70	-32.22	-5,081.90	4,899.91	6,158.48	6,102.28	56.20	109.587		
7,233.81	7,134.00	7,171.59	7,069.45	30.95	31.79	131.55	-5,082.10	4,899.59	6,158.19	6,101.79	56.40	109.183		
7,300.00	7,200.19	7,228.51	7,126.36	31.12	31.95	131.55	-5,082.44	4,899.11	6,158.03	6,101.25	56.78	108.446		
7,333.81	7,234.00	7,258.43	7,156.28	31.21	32.04	131.55	-5,082.61	4,898.90	6,157.99	6,101.01	56.98	108.070		
7,350.00	7,250.18	7,273.36	7,171.21	31.26	32.08	-48.12	-5,082.69	4,898.81	6,157.82	6,100.74	57.08	107.878		
7,400.00	7,300.04	7,319.36	7,217.22	31.44	32.21	-48.32	-5,082.91	4,898.59	6,155.40	6,097.99	57.41	107.209		
7,450.00	7,349.39	7,379.95	7,277.80	31.66	32.39	-48.79	-5,083.12	4,898.35	6,150.09	6,092.28	57.81	106.387		
7,500.00	7,397.87	7,452.76	7,350.61	31.92	32.59	-49.55	-5,083.20	4,897.89	6,141.77	6,083.52	58.25	105.431		
7,550.00	7,445.09	7,481.82	7,379.67	32.22	32.67	-50.49	-5,083.21	4,897.75	6,130.71	6,072.09	58.62	104.576		
7,600.00	7,490.72	7,517.62	7,415.47	32.55	32.77	-51.70	-5,083.23	4,897.63	6,117.06	6,058.03	59.03	103.623		
7,650.00	7,534.38	7,550.28	7,448.12	32.92	32.86	-53.18	-5,083.26	4,897.59	6,100.95	6,041.50	59.45	102.616		
7,700.00	7,575.77	7,580.26	7,478.11	33.32	32.94	-54.92	-5,083.30	4,897.60	6,082.54	6,022.65	59.89	101.563		
7,750.00	7,614.55	7,608.39	7,506.24	33.75	33.02	-56.94	-5,083.35	4,897.67	6,061.97	6,001.63	60.34	100.466		
7,800.00	7,650.43	7,636.89	7,534.74	34.22	33.11	-59.26	-5,083.43	4,897.79	6,039.42	5,978.62	60.80	99.326		
7,850.00	7,683.15	7,668.35	7,566.20	34.71	33.19	-61.92	-5,083.48	4,897.96	6,015.05	5,953.76	61.29	98.140		
7,900.00	7,712.45	7,696.45	7,594.30	35.23	33.27	-64.87	-5,083.49	4,898.16	5,989.07	5,927.28	61.78	96.935		
7,950.00	7,738.11	7,720.97	7,618.82	35.78	33.34	-68.09	-5,083.48	4,898.35	5,961.69	5,899.41	62.28	95.719		
8,000.00	7,759.93	7,738.12	7,635.96	36.35	33.39	-71.52	-5,083.46	4,898.51	5,933.18	5,870.40	62.78	94.511		
8,050.00	7,777.75	7,751.94	7,649.78	36.93	33.43	-75.15	-5,083.44	4,898.65	5,903.76	5,840.49	63.28	93.303		
8,100.00	7,791.43	7,762.53	7,660.37	37.53	33.46	-78.94	-5,083.42	4,898.77	5,873.69	5,809.91	63.78	92.100		
8,150.00	7,800.87	7,769.81	7,667.65	38.14	33.48	-82.82	-5,083.41	4,898.86	5,843.20	5,778.93	64.28	90.908		
8,200.00	7,806.00	7,773.72	7,671.57	38.76	33.49	-86.73	-5,083.40	4,898.91	5,812.54	5,747.77	64.78	89.734		
8,233.89	7,807.00	7,774.45	7,672.30	39.18	33.49	-89.37	-5,083.40	4,898.92	5,791.79	5,726.68	65.11	88.951		
8,300.00	7,807.00	7,774.36	7,672.20	40.00	33.49	-89.37	-5,083.40	4,898.91	5,751.62	5,685.84	65.78	87.434		
8,400.00	7,807.00	7,774.22	7,672.06	41.29	33.49	-89.36	-5,083.40	4,898.91	5,691.78	5,624.92	66.86	85.129		
8,500.00	7,806.99	7,774.08	7,671.92	42.60	33.49	-89.36	-5,083.40	4,898.91	5,633.09	5,565.07	68.01	82.823		
8,600.00	7,806.99	7,773.94	7,671.78	43.95	33.49	-89.36	-5,083.40	4,898.91	5,575.56	5,506.33	69.24	80.527		
8,700.00	7,806.99	7,773.80	7,671.64	45.33	33.49	-89.36	-5,083.40	4,898.91	5,519.25	5,448.72	70.53	78.251		

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-20-3N
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-20-3N	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	7,773.66	7,671.50	46.74	33.49	-89.36	-5,083.40	4,898.91	5,464.19	5,392.30	71.89	76.003		
8,900.00	7,806.98	7,773.52	7,671.36	48.17	33.49	-89.36	-5,083.40	4,898.90	5,410.42	5,337.10	73.32	73.791		
9,000.00	7,806.98	7,773.38	7,671.22	49.62	33.49	-89.35	-5,083.40	4,898.90	5,357.98	5,283.17	74.81	71.622		
9,100.00	7,806.98	7,773.24	7,671.08	51.09	33.49	-89.35	-5,083.40	4,898.90	5,306.90	5,230.54	76.36	69.502		
9,200.00	7,806.98	7,773.10	7,670.94	52.59	33.49	-89.35	-5,083.40	4,898.90	5,257.23	5,179.27	77.96	67.435		
9,300.00	7,806.97	7,772.96	7,670.80	54.09	33.49	-89.35	-5,083.40	4,898.90	5,209.00	5,129.38	79.62	65.425		
9,400.00	7,806.97	7,772.82	7,670.66	55.62	33.49	-89.35	-5,083.40	4,898.89	5,162.26	5,080.93	81.33	63.476		
9,500.00	7,806.97	7,772.68	7,670.52	57.16	33.49	-89.35	-5,083.40	4,898.89	5,117.05	5,033.97	83.08	61.591		
9,600.00	7,806.97	7,772.54	7,670.38	58.71	33.49	-89.34	-5,083.40	4,898.89	5,073.40	4,988.52	84.88	59.772		
9,700.00	7,806.96	7,772.40	7,670.25	60.27	33.49	-89.34	-5,083.40	4,898.89	5,031.37	4,944.65	86.72	58.019		
9,800.00	7,806.96	7,772.27	7,670.11	61.84	33.49	-89.34	-5,083.40	4,898.89	4,990.98	4,902.39	88.60	56.333		
9,900.00	7,806.96	7,772.13	7,669.97	63.43	33.49	-89.34	-5,083.40	4,898.89	4,952.29	4,861.78	90.51	54.716		
10,000.00	7,806.96	7,771.99	7,669.83	65.02	33.48	-89.34	-5,083.40	4,898.88	4,915.33	4,822.88	92.45	53.167		
10,100.00	7,806.95	7,771.85	7,669.70	66.63	33.48	-89.33	-5,083.40	4,898.88	4,880.13	4,785.71	94.42	51.686		
10,200.00	7,806.95	7,771.72	7,669.56	68.24	33.48	-89.33	-5,083.40	4,898.88	4,846.74	4,750.33	96.41	50.272		
10,300.00	7,806.95	7,771.58	7,669.42	69.86	33.48	-89.33	-5,083.40	4,898.88	4,815.20	4,716.78	98.42	48.924		
10,400.00	7,806.95	7,771.45	7,669.29	71.49	33.48	-89.33	-5,083.40	4,898.88	4,785.54	4,685.10	100.45	47.642		
10,500.00	7,806.94	7,771.31	7,669.15	73.12	33.48	-89.33	-5,083.40	4,898.88	4,757.80	4,655.32	102.49	46.424		
10,600.00	7,806.94	7,771.17	7,669.02	74.76	33.48	-89.33	-5,083.40	4,898.87	4,732.01	4,627.48	104.53	45.269		
10,700.00	7,806.94	7,771.04	7,668.88	76.41	33.48	-89.32	-5,083.40	4,898.87	4,708.20	4,601.62	106.58	44.175		
10,800.00	7,806.94	7,770.90	7,668.75	78.06	33.48	-89.32	-5,083.40	4,898.87	4,686.41	4,577.78	108.63	43.142		
10,900.00	7,806.93	7,770.77	7,668.61	79.72	33.48	-89.32	-5,083.40	4,898.87	4,666.66	4,555.99	110.67	42.167		
11,000.00	7,806.93	7,770.63	7,668.48	81.38	33.48	-89.32	-5,083.40	4,898.87	4,648.97	4,536.27	112.70	41.249		
11,100.00	7,806.93	7,770.50	7,668.34	83.05	33.48	-89.32	-5,083.40	4,898.87	4,633.38	4,518.65	114.73	40.387		
11,200.00	7,806.93	7,770.37	7,668.21	84.72	33.48	-89.32	-5,083.40	4,898.86	4,619.89	4,503.17	116.73	39.578		
11,300.00	7,806.92	7,770.23	7,668.08	86.39	33.48	-89.31	-5,083.41	4,898.86	4,608.54	4,489.83	118.71	38.822		
11,400.00	7,806.92	7,770.10	7,667.94	88.07	33.48	-89.31	-5,083.41	4,898.86	4,599.34	4,478.67	120.67	38.116		
11,500.00	7,806.92	7,769.97	7,667.81	89.75	33.48	-89.31	-5,083.41	4,898.86	4,592.30	4,469.70	122.60	37.459		
11,600.00	7,806.92	7,769.83	7,667.68	91.44	33.48	-89.31	-5,083.41	4,898.86	4,587.42	4,462.93	124.49	36.849		
11,700.00	7,806.91	7,769.70	7,667.54	93.13	33.48	-89.31	-5,083.41	4,898.86	4,584.72	4,458.37	126.35	36.285		
11,773.75	7,806.91	7,769.60	7,667.45	94.38	33.48	-89.31	-5,083.41	4,898.86	4,584.13	4,456.43	127.70	35.898 CC		
11,800.00	7,806.91	7,769.57	7,667.41	94.82	33.48	-89.31	-5,083.41	4,898.86	4,584.20	4,456.03	128.17	35.766		
11,900.00	7,806.91	7,769.44	7,667.28	96.52	33.48	-89.30	-5,083.41	4,898.85	4,585.87	4,455.92	129.95	35.289 ES		
12,000.00	7,806.91	7,769.30	7,667.15	98.21	33.48	-89.30	-5,083.41	4,898.85	4,589.71	4,458.02	131.68	34.854		
12,100.00	7,806.90	7,769.17	7,667.01	99.91	33.48	-89.30	-5,083.41	4,898.85	4,595.72	4,462.35	133.37	34.458		
12,200.00	7,806.90	7,769.04	7,666.88	101.62	33.48	-89.30	-5,083.41	4,898.85	4,603.90	4,468.90	135.01	34.102		
12,300.00	7,806.90	7,768.91	7,666.75	103.32	33.48	-89.30	-5,083.41	4,898.85	4,614.24	4,477.65	136.59	33.782		
12,400.00	7,806.90	7,768.78	7,666.62	105.03	33.48	-89.30	-5,083.41	4,898.85	4,626.71	4,488.59	138.12	33.498		
12,500.00	7,806.89	7,768.65	7,666.49	106.74	33.48	-89.29	-5,083.41	4,898.84	4,641.30	4,501.71	139.59	33.249		
12,600.00	7,806.89	7,768.52	7,666.36	108.45	33.48	-89.29	-5,083.41	4,898.84	4,658.00	4,516.99	141.01	33.033		
12,700.00	7,806.89	7,768.39	7,666.23	110.17	33.47	-89.29	-5,083.41	4,898.84	4,676.77	4,534.40	142.37	32.849		
12,800.00	7,806.89	7,768.26	7,666.10	111.88	33.47	-89.29	-5,083.41	4,898.84	4,697.60	4,553.93	143.67	32.697		
12,900.00	7,806.88	7,768.13	7,665.97	113.60	33.47	-89.29	-5,083.41	4,898.84	4,720.45	4,575.54	144.91	32.574		
13,000.00	7,806.88	7,768.00	7,665.84	115.32	33.47	-89.29	-5,083.41	4,898.84	4,745.30	4,599.21	146.10	32.480		
13,100.00	7,806.88	7,767.87	7,665.71	117.04	33.47	-89.29	-5,083.41	4,898.83	4,772.12	4,624.90	147.22	32.414		
13,200.00	7,806.88	7,767.74	7,665.58	118.76	33.47	-89.28	-5,083.41	4,898.83	4,800.88	4,652.58	148.29	32.374		
13,300.00	7,806.87	7,767.61	7,665.45	120.48	33.47	-89.28	-5,083.41	4,898.83	4,831.53	4,682.23	149.30	32.361 SF		
13,400.00	7,806.87	7,767.48	7,665.32	122.21	33.47	-89.28	-5,083.41	4,898.83	4,864.04	4,713.79	150.25	32.372		
13,500.00	7,806.87	7,767.35	7,665.20	123.94	33.47	-89.28	-5,083.41	4,898.83	4,898.38	4,747.23	151.15	32.407		
13,600.00	7,806.87	7,767.23	7,665.07	125.66	33.47	-89.28	-5,083.41	4,898.83	4,934.51	4,782.52	151.99	32.466		
13,700.00	7,806.86	7,767.10	7,664.94	127.39	33.47	-89.28	-5,083.41	4,898.83	4,972.39	4,819.61	152.78	32.547		
13,800.00	7,806.86	7,766.97	7,664.81	129.12	33.47	-89.27	-5,083.41	4,898.82	5,011.98	4,858.46	153.51	32.649		

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-20-3N
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-20-3N	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		
13,900.00	7,806.86	7,766.84	7,664.69	130.85	33.47	-89.27	-5,083.41	4,898.82	5,053.23	4,899.04	154.20	32.771		
14,000.00	7,806.86	7,766.72	7,664.56	132.59	33.47	-89.27	-5,083.41	4,898.82	5,096.12	4,941.29	154.83	32.914		
14,100.00	7,806.85	7,766.59	7,664.43	134.32	33.47	-89.27	-5,083.41	4,898.82	5,140.59	4,985.17	155.42	33.076		
14,200.00	7,806.85	7,766.46	7,664.31	136.06	33.47	-89.27	-5,083.41	4,898.82	5,186.61	5,030.65	155.96	33.257		
14,300.00	7,806.85	7,766.34	7,664.18	137.79	33.47	-89.27	-5,083.41	4,898.82	5,234.13	5,077.68	156.45	33.455		
14,400.00	7,806.85	7,766.21	7,664.05	139.53	33.47	-89.26	-5,083.41	4,898.82	5,283.12	5,126.22	156.91	33.671		
14,500.00	7,806.84	7,766.08	7,663.93	141.27	33.47	-89.26	-5,083.41	4,898.81	5,333.54	5,176.22	157.32	33.903		
14,600.00	7,806.84	7,765.96	7,663.80	143.00	33.47	-89.26	-5,083.41	4,898.81	5,385.34	5,227.65	157.69	34.151		
14,700.00	7,806.84	7,765.83	7,663.68	144.74	33.47	-89.26	-5,083.41	4,898.81	5,438.49	5,280.46	158.03	34.415		
14,800.00	7,806.84	7,765.71	7,663.55	146.48	33.47	-89.26	-5,083.41	4,898.81	5,492.94	5,334.61	158.33	34.694		
14,900.00	7,806.83	7,765.58	7,663.43	148.22	33.47	-89.26	-5,083.41	4,898.81	5,548.66	5,390.07	158.59	34.987		
15,000.00	7,806.83	7,765.46	7,663.30	149.97	33.47	-89.25	-5,083.41	4,898.81	5,605.61	5,446.78	158.83	35.294		
15,100.00	7,806.83	7,765.33	7,663.18	151.71	33.47	-89.25	-5,083.41	4,898.80	5,663.76	5,504.73	159.03	35.614		
15,200.00	7,806.83	7,765.21	7,663.05	153.45	33.47	-89.25	-5,083.41	4,898.80	5,723.06	5,563.85	159.21	35.948		
15,300.00	7,806.82	7,765.08	7,662.93	155.19	33.47	-89.25	-5,083.41	4,898.80	5,783.48	5,624.13	159.35	36.293		
15,400.00	7,806.82	7,764.96	7,662.80	156.94	33.47	-89.25	-5,083.41	4,898.80	5,844.99	5,685.51	159.48	36.651		
15,500.00	7,806.82	7,764.84	7,662.68	158.68	33.47	-89.25	-5,083.41	4,898.80	5,907.55	5,747.97	159.57	37.021		
15,600.00	7,806.82	7,764.71	7,662.56	160.43	33.46	-89.25	-5,083.42	4,898.80	5,971.13	5,811.48	159.65	37.402		
15,700.00	7,806.81	7,764.59	7,662.43	162.18	33.46	-89.24	-5,083.42	4,898.80	6,035.70	5,875.99	159.70	37.793		
15,800.00	7,806.81	7,764.47	7,662.31	163.92	33.46	-89.24	-5,083.42	4,898.79	6,101.22	5,941.48	159.74	38.195		
15,900.00	7,806.81	7,764.35	7,662.19	165.67	33.46	-89.24	-5,083.42	4,898.79	6,167.67	6,007.91	159.75	38.608		
16,000.00	7,806.81	7,764.22	7,662.07	167.42	33.46	-89.24	-5,083.42	4,898.79	6,235.01	6,075.26	159.75	39.030		
16,100.00	7,806.80	7,764.10	7,661.94	169.17	33.46	-89.24	-5,083.42	4,898.79	6,303.22	6,143.49	159.73	39.461		
16,200.00	7,806.80	7,763.98	7,661.82	170.91	33.46	-89.24	-5,083.42	4,898.79	6,372.27	6,212.57	159.70	39.902		
16,300.00	7,806.80	7,763.86	7,661.70	172.66	33.46	-89.23	-5,083.42	4,898.79	6,442.14	6,282.48	159.65	40.352		
16,400.00	7,806.80	7,763.73	7,661.58	174.41	33.46	-89.23	-5,083.42	4,898.79	6,512.78	6,353.19	159.59	40.810		
16,500.00	7,806.79	7,763.61	7,661.46	176.16	33.46	-89.23	-5,083.42	4,898.78	6,584.19	6,424.68	159.52	41.276		
16,600.00	7,806.79	7,763.49	7,661.34	177.92	33.46	-89.23	-5,083.42	4,898.78	6,656.34	6,496.91	159.43	41.750		
16,700.00	7,806.79	7,763.37	7,661.21	179.67	33.46	-89.23	-5,083.42	4,898.78	6,729.20	6,569.86	159.34	42.233		
16,800.00	7,806.79	7,763.25	7,661.09	181.42	33.46	-89.23	-5,083.42	4,898.78	6,802.75	6,643.51	159.23	42.722		
16,900.00	7,806.78	7,763.13	7,660.97	183.17	33.46	-89.23	-5,083.42	4,898.78	6,876.96	6,717.84	159.12	43.219		
17,000.00	7,806.78	7,763.01	7,660.85	184.92	33.46	-89.22	-5,083.42	4,898.78	6,951.82	6,792.83	159.00	43.723		
17,100.00	7,806.78	7,762.89	7,660.73	186.68	33.46	-89.22	-5,083.42	4,898.78	7,027.31	6,868.44	158.87	44.233		
17,200.00	7,806.78	7,762.77	7,660.61	188.43	33.46	-89.22	-5,083.42	4,898.77	7,103.40	6,944.67	158.73	44.751		
17,300.00	7,806.77	7,762.65	7,660.49	190.18	33.46	-89.22	-5,083.42	4,898.77	7,180.08	7,021.49	158.59	45.274		
17,400.00	7,806.77	7,762.53	7,660.37	191.94	33.46	-89.22	-5,083.42	4,898.77	7,257.33	7,098.89	158.44	45.804		
17,500.00	7,806.77	7,762.41	7,660.26	193.69	33.46	-89.22	-5,083.42	4,898.77	7,335.13	7,176.84	158.29	46.340		
17,600.00	7,806.77	7,762.29	7,660.14	195.45	33.46	-89.22	-5,083.42	4,898.77	7,413.46	7,255.32	158.13	46.881		
17,700.00	7,806.76	7,762.17	7,660.02	197.20	33.46	-89.21	-5,083.42	4,898.77	7,492.30	7,334.33	157.97	47.428		
17,800.00	7,806.76	7,762.06	7,659.90	198.96	33.46	-89.21	-5,083.42	4,898.77	7,571.65	7,413.84	157.81	47.980		
17,877.44	7,807.00	7,762.14	7,659.98	200.32	33.46	-89.21	-5,083.42	4,898.77	7,633.38	7,475.71	157.68	48.412		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	135.56	-3,227.40	3,164.82	4,520.19					
100.00	100.00	103.00	103.00	0.13	1.25	135.56	-3,227.40	3,164.82	4,520.19	4,518.81	1.39	3,256.357		
200.00	200.00	203.00	203.00	0.49	3.54	135.56	-3,227.40	3,164.82	4,520.19	4,516.16	4.03	1,120.866		
300.00	300.00	303.00	303.00	0.85	5.62	135.56	-3,227.40	3,164.82	4,520.19	4,513.72	6.47	698.778		
400.00	400.00	403.00	403.00	1.21	7.66	135.56	-3,227.40	3,164.82	4,520.19	4,511.32	8.87	509.660		
500.00	500.00	503.00	503.00	1.57	9.69	135.56	-3,227.40	3,164.82	4,520.19	4,508.94	11.26	401.567		
600.00	600.00	603.00	603.00	1.93	11.71	135.56	-3,227.40	3,164.82	4,520.19	4,506.56	13.64	331.452		
700.00	700.00	703.00	703.00	2.29	13.73	135.56	-3,227.40	3,164.82	4,520.19	4,504.18	16.02	282.243		
800.00	800.00	803.00	803.00	2.64	15.75	135.56	-3,227.40	3,164.82	4,520.19	4,501.80	18.39	245.785		
900.00	900.00	903.00	903.00	3.00	17.76	135.56	-3,227.40	3,164.82	4,520.19	4,499.43	20.76	217.683		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	135.56	-3,227.40	3,164.82	4,520.19	4,497.06	23.14	195.356		
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	135.56	-3,227.40	3,164.82	4,520.19	4,494.68	25.51	177.188		
1,200.00	1,200.00	1,203.00	1,203.00	4.08	23.81	135.56	-3,227.40	3,164.82	4,520.19	4,492.31	27.88	162.115		
1,300.00	1,300.00	1,303.00	1,303.00	4.44	25.82	135.56	-3,227.40	3,164.82	4,520.19	4,489.94	30.25	149.407		
1,400.00	1,400.00	1,403.00	1,403.00	4.79	27.83	135.56	-3,227.40	3,164.82	4,520.19	4,487.57	32.63	138.548		
1,500.00	1,499.98	1,502.98	1,502.98	5.14	29.84	-28.22	-3,227.40	3,164.82	4,518.66	4,483.68	34.98	129.184		
1,600.00	1,599.84	1,602.84	1,602.84	5.46	31.85	-28.30	-3,227.40	3,164.82	4,514.04	4,476.73	37.31	120.973		
1,700.00	1,699.45	1,702.45	1,702.45	5.80	33.86	-28.42	-3,227.40	3,164.82	4,506.37	4,466.72	39.65	113.654		
1,800.00	1,798.70	1,801.70	1,801.70	6.14	35.85	-28.60	-3,227.40	3,164.82	4,495.64	4,453.66	41.98	107.084		
1,900.00	1,897.47	1,900.47	1,900.47	6.49	37.84	-28.83	-3,227.40	3,164.82	4,481.88	4,437.57	44.31	101.149		
1,969.08	1,965.35	1,968.35	1,968.35	6.75	39.21	-29.02	-3,227.40	3,164.82	4,470.62	4,424.71	45.91	97.368		
2,000.00	1,995.66	2,001.34	1,998.66	6.86	39.87	-29.06	-3,227.40	3,164.82	4,465.26	4,418.57	46.69	95.644		
2,100.00	2,093.69	2,103.31	2,096.69	7.25	41.92	-29.18	-3,227.40	3,164.82	4,447.94	4,398.85	49.09	90.614		
2,200.00	2,191.72	2,205.28	2,194.72	7.65	43.97	-29.30	-3,227.40	3,164.82	4,430.64	4,379.15	51.49	86.043		
2,300.00	2,289.76	2,307.24	2,292.76	8.07	46.02	-29.43	-3,227.40	3,164.82	4,413.36	4,359.45	53.91	81.872		
2,400.00	2,387.79	2,409.21	2,390.79	8.49	48.08	-29.55	-3,227.40	3,164.82	4,396.10	4,339.78	56.32	78.052		
2,500.00	2,485.82	2,488.82	2,488.82	8.91	49.68	-29.68	-3,227.40	3,164.82	4,378.86	4,320.57	58.29	75.117		
2,600.00	2,583.86	2,586.86	2,586.86	9.35	51.65	-29.81	-3,227.40	3,164.82	4,361.65	4,301.01	60.64	71.927		
2,700.00	2,681.89	2,684.89	2,684.89	9.79	53.62	-29.94	-3,227.40	3,164.82	4,344.45	4,281.46	62.99	68.971		
2,800.00	2,779.92	2,782.92	2,782.92	10.24	55.59	-30.07	-3,227.40	3,164.82	4,327.28	4,261.93	65.34	66.225		
2,900.00	2,877.96	2,880.96	2,880.96	10.69	57.56	-30.20	-3,227.40	3,164.82	4,310.12	4,242.43	67.70	63.667		
3,000.00	2,975.99	2,978.99	2,978.99	11.14	59.54	-30.33	-3,227.40	3,164.82	4,292.99	4,222.94	70.06	61.280		
3,100.00	3,074.02	3,077.02	3,077.02	11.60	61.51	-30.46	-3,227.40	3,164.82	4,275.89	4,203.47	72.42	59.046		
3,200.00	3,172.06	3,175.06	3,175.06	12.06	63.48	-30.60	-3,227.40	3,164.82	4,258.80	4,184.02	74.78	56.952		
3,300.00	3,270.09	3,273.09	3,273.09	12.52	65.45	-30.73	-3,227.40	3,164.82	4,241.74	4,164.60	77.14	54.986		
3,400.00	3,368.12	3,371.12	3,371.12	12.98	67.42	-30.87	-3,227.40	3,164.82	4,224.70	4,145.19	79.51	53.135		
3,500.00	3,466.16	3,469.16	3,469.16	13.45	69.39	-31.00	-3,227.40	3,164.82	4,207.69	4,125.81	81.88	51.390		
3,600.00	3,564.19	3,567.19	3,567.19	13.92	71.37	-31.14	-3,227.40	3,164.82	4,190.70	4,106.45	84.25	49.743		
3,700.00	3,662.23	3,665.23	3,665.23	14.39	73.34	-31.28	-3,227.40	3,164.82	4,173.73	4,087.11	86.62	48.185		
3,800.00	3,760.26	3,763.26	3,763.26	14.86	75.31	-31.42	-3,227.40	3,164.82	4,156.79	4,067.79	88.99	46.710		
3,900.00	3,858.29	3,861.29	3,861.29	15.34	77.28	-31.56	-3,227.40	3,164.82	4,139.87	4,048.50	91.37	45.311		
4,000.00	3,956.33	3,959.33	3,959.33	15.81	79.25	-31.71	-3,227.40	3,164.82	4,122.98	4,029.23	93.74	43.982		
4,100.00	4,054.36	4,057.36	4,057.36	16.29	81.22	-31.85	-3,227.40	3,164.82	4,106.11	4,009.99	96.12	42.719		
4,200.00	4,152.39	4,155.39	4,155.39	16.77	83.20	-32.00	-3,227.40	3,164.82	4,089.27	3,990.77	98.50	41.517		
4,300.00	4,250.43	4,253.43	4,253.43	17.25	85.17	-32.14	-3,227.40	3,164.82	4,072.45	3,971.57	100.88	40.371		
4,400.00	4,348.46	4,351.46	4,351.46	17.73	87.14	-32.29	-3,227.40	3,164.82	4,055.66	3,952.40	103.26	39.277		
4,500.00	4,446.49	4,449.49	4,449.49	18.21	89.11	-32.44	-3,227.40	3,164.82	4,038.90	3,933.26	105.64	38.233		
4,600.00	4,544.53	4,547.53	4,547.53	18.69	91.08	-32.59	-3,227.40	3,164.82	4,022.16	3,914.14	108.02	37.234		
4,700.00	4,642.56	4,645.56	4,645.56	19.17	93.05	-32.74	-3,227.40	3,164.82	4,005.45	3,895.05	110.41	36.279		
4,800.00	4,740.59	4,743.59	4,743.59	19.65	95.02	-32.89	-3,227.40	3,164.82	3,988.77	3,875.98	112.79	35.364		
4,900.00	4,838.63	4,841.63	4,841.63	20.13	97.00	-33.05	-3,227.40	3,164.82	3,972.12	3,856.94	115.18	34.487		
5,000.00	4,936.66	4,939.66	4,939.66	20.62	98.97	-33.20	-3,227.40	3,164.82	3,955.50	3,837.93	117.57	33.645		

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-20-3N
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-20-3N	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	5,034.69	5,037.69	5,037.69	21.10	100.94	-33.36	-3,227.40	3,164.82	3,938.90	3,818.95	119.95	32.837		
5,200.00	5,132.73	5,135.73	5,135.73	21.59	102.91	-33.51	-3,227.40	3,164.82	3,922.33	3,799.99	122.34	32.060		
5,300.00	5,230.76	5,233.76	5,233.76	22.07	104.88	-33.67	-3,227.40	3,164.82	3,905.80	3,781.06	124.73	31.313		
5,400.00	5,328.79	5,331.79	5,331.79	22.56	106.85	-33.83	-3,227.40	3,164.82	3,889.29	3,762.16	127.13	30.594		
5,500.00	5,426.83	5,429.83	5,429.83	23.04	108.83	-33.99	-3,227.40	3,164.82	3,872.81	3,743.29	129.52	29.901		
5,600.00	5,524.86	5,527.86	5,527.86	23.53	110.80	-34.16	-3,227.40	3,164.82	3,856.36	3,724.45	131.91	29.234		
5,700.00	5,622.89	5,625.89	5,625.89	24.02	112.77	-34.32	-3,227.40	3,164.82	3,839.95	3,705.64	134.31	28.591		
5,800.00	5,720.93	5,723.93	5,723.93	24.50	114.74	-34.49	-3,227.40	3,164.82	3,823.56	3,686.86	136.70	27.970		
5,900.00	5,818.96	5,821.96	5,821.96	24.99	116.71	-34.65	-3,227.40	3,164.82	3,807.21	3,668.11	139.10	27.370		
6,000.00	5,916.99	5,919.99	5,919.99	25.48	118.68	-34.82	-3,227.40	3,164.82	3,790.89	3,649.39	141.50	26.791		
6,100.00	6,015.03	6,018.03	6,018.03	25.97	120.65	-34.99	-3,227.40	3,164.82	3,774.60	3,630.71	143.90	26.232		
6,200.00	6,113.06	6,116.06	6,116.06	26.45	122.63	-35.16	-3,227.40	3,164.82	3,758.35	3,612.05	146.30	25.690		
6,300.00	6,211.09	6,214.09	6,214.09	26.94	124.60	-35.34	-3,227.40	3,164.82	3,742.13	3,593.43	148.70	25.166		
6,400.00	6,309.13	6,312.13	6,312.13	27.43	126.57	-35.51	-3,227.40	3,164.82	3,725.94	3,574.84	151.10	24.659		
6,500.00	6,407.16	6,410.16	6,410.16	27.92	128.54	-35.69	-3,227.40	3,164.82	3,709.79	3,556.29	153.50	24.168		
6,600.00	6,505.19	6,508.19	6,508.19	28.41	130.51	-35.86	-3,227.40	3,164.82	3,693.67	3,537.76	155.90	23.692		
6,664.73	6,568.65	6,571.65	6,571.65	28.73	131.79	-35.98	-3,227.40	3,164.82	3,683.25	3,525.79	157.46	23.392		
6,700.00	6,603.27	6,606.27	6,606.27	28.90	132.48	-35.98	-3,227.40	3,164.82	3,677.76	3,519.45	158.31	23.232		
6,800.00	6,701.84	6,704.84	6,704.84	29.36	134.47	-35.97	-3,227.40	3,164.82	3,664.09	3,503.38	160.71	22.800		
6,900.00	6,800.94	6,803.94	6,803.94	29.78	136.46	-35.96	-3,227.40	3,164.82	3,653.24	3,490.15	163.10	22.399		
7,000.00	6,900.45	6,903.45	6,903.45	30.17	138.46	-35.96	-3,227.40	3,164.82	3,645.23	3,479.75	165.48	22.028		
7,100.00	7,000.24	7,003.24	7,003.24	30.53	140.47	-35.96	-3,227.40	3,164.82	3,640.03	3,472.19	167.84	21.687		
7,200.00	7,100.19	7,103.19	7,103.19	30.85	142.48	-35.96	-3,227.40	3,164.82	3,637.66	3,467.47	170.19	21.374		
7,233.81	7,134.00	7,137.00	7,137.00	30.95	143.16	-35.96	-3,227.40	3,164.82	3,637.50	3,466.52	170.98	21.275		
7,300.00	7,200.19	7,203.19	7,203.19	31.12	144.49	-35.96	-3,227.40	3,164.82	3,637.50	3,465.00	172.50	21.087		
7,333.81	7,234.00	7,237.00	7,237.00	31.21	145.17	-35.96	-3,227.40	3,164.82	3,637.50	3,464.22	173.28	20.992		
7,350.00	7,250.18	7,253.18	7,253.18	31.26	145.49	-51.87	-3,227.40	3,164.82	3,637.36	3,463.70	173.66	20.945		
7,400.00	7,300.04	7,303.04	7,303.04	31.44	146.50	-52.09	-3,227.40	3,164.82	3,635.14	3,460.30	174.85	20.790		
7,450.00	7,349.39	7,352.39	7,352.39	31.66	147.49	-52.58	-3,227.40	3,164.82	3,630.26	3,454.21	176.06	20.620		
7,500.00	7,397.87	7,400.87	7,400.87	31.92	148.46	-53.33	-3,227.40	3,164.82	3,622.77	3,445.49	177.28	20.436		
7,550.00	7,445.09	7,448.09	7,448.09	32.22	149.41	-54.36	-3,227.40	3,164.82	3,612.75	3,434.25	178.50	20.239		
7,600.00	7,490.72	7,506.29	7,493.72	32.55	150.58	-55.66	-3,227.40	3,164.82	3,600.31	3,420.34	179.97	20.005		
7,650.00	7,534.38	7,537.38	7,537.38	32.92	151.21	-57.24	-3,227.40	3,164.82	3,585.60	3,404.68	180.92	19.819		
7,700.00	7,575.77	7,578.77	7,578.77	33.32	152.04	-59.10	-3,227.40	3,164.82	3,568.77	3,386.67	182.10	19.598		
7,750.00	7,614.55	7,617.55	7,617.55	33.75	152.82	-61.22	-3,227.40	3,164.82	3,550.01	3,366.75	183.26	19.372		
7,800.00	7,650.43	7,653.43	7,653.43	34.22	153.54	-63.60	-3,227.40	3,164.82	3,529.52	3,345.14	184.38	19.143		
7,850.00	7,683.15	7,686.15	7,686.15	34.71	154.20	-66.23	-3,227.40	3,164.82	3,507.52	3,322.06	185.46	18.913		
7,900.00	7,712.45	7,715.45	7,715.45	35.23	154.79	-69.07	-3,227.40	3,164.82	3,484.24	3,297.75	186.49	18.683		
7,950.00	7,738.11	7,741.11	7,741.11	35.78	155.31	-72.08	-3,227.40	3,164.82	3,459.94	3,272.46	187.48	18.455		
8,000.00	7,759.93	7,762.93	7,762.93	36.35	155.74	-75.22	-3,227.40	3,164.82	3,434.85	3,246.44	188.41	18.231		
8,050.00	7,777.75	7,780.75	7,780.75	36.93	156.10	-78.44	-3,227.40	3,164.82	3,409.22	3,219.94	189.28	18.011		
8,100.00	7,791.43	7,805.57	7,794.43	37.53	156.60	-81.68	-3,227.40	3,164.82	3,383.31	3,193.00	190.32	17.777		
8,150.00	7,800.87	7,803.87	7,803.87	38.14	156.57	-84.88	-3,227.40	3,164.82	3,357.37	3,166.53	190.84	17.593		
8,200.00	7,806.00	7,809.00	7,809.00	38.76	156.67	-87.98	-3,227.40	3,164.82	3,331.61	3,140.10	191.52	17.396		
8,233.89	7,807.00	7,810.00	7,810.00	39.18	156.69	-90.00	-3,227.40	3,164.82	3,314.38	3,122.45	191.93	17.268		
8,300.00	7,807.00	7,810.00	7,810.00	40.00	156.69	-90.00	-3,227.40	3,164.82	3,281.50	3,088.76	192.73	17.026		
8,400.00	7,807.00	7,810.00	7,810.00	41.29	156.69	-90.00	-3,227.40	3,164.82	3,233.69	3,039.66	194.03	16.666		
8,500.00	7,806.99	7,809.99	7,809.99	42.60	156.69	-90.00	-3,227.40	3,164.82	3,188.30	2,992.88	195.41	16.316		
8,600.00	7,806.99	7,809.99	7,809.99	43.95	156.69	-90.00	-3,227.40	3,164.82	3,145.43	2,948.54	196.89	15.976		
8,700.00	7,806.99	7,809.99	7,809.99	45.33	156.69	-90.00	-3,227.40	3,164.82	3,105.20	2,906.76	198.44	15.648		
8,800.00	7,806.99	7,809.99	7,809.99	46.74	156.69	-90.00	-3,227.40	3,164.82	3,067.69	2,867.63	200.07	15.333		
8,900.00	7,806.98	7,809.98	7,809.98	48.17	156.69	-90.00	-3,227.40	3,164.82	3,033.03	2,831.27	201.76	15.033		

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-20-3N
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-20-3N	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	7,806.98	7,809.98	7,809.98	49.62	156.69	-90.00	-3,227.40	3,164.82	3,001.29	2,797.79	203.50	14.748		
9,100.00	7,806.98	7,809.98	7,809.98	51.09	156.69	-90.00	-3,227.40	3,164.82	2,972.59	2,767.30	205.29	14.480		
9,200.00	7,806.98	7,809.98	7,809.98	52.59	156.69	-90.00	-3,227.40	3,164.82	2,946.99	2,739.88	207.11	14.229		
9,300.00	7,806.97	7,809.97	7,809.97	54.09	156.69	-90.00	-3,227.40	3,164.82	2,924.60	2,715.64	208.96	13.996		
9,400.00	7,806.97	7,809.97	7,809.97	55.62	156.69	-90.00	-3,227.40	3,164.82	2,905.47	2,694.65	210.82	13.782		
9,500.00	7,806.97	7,809.97	7,809.97	57.16	156.69	-90.00	-3,227.40	3,164.82	2,889.69	2,677.00	212.68	13.587		
9,600.00	7,806.97	7,809.97	7,809.97	58.71	156.69	-90.00	-3,227.40	3,164.82	2,877.29	2,662.75	214.54	13.412		
9,700.00	7,806.96	7,809.96	7,809.96	60.27	156.69	-90.00	-3,227.40	3,164.82	2,868.33	2,651.96	216.37	13.257		
9,800.00	7,806.96	7,809.96	7,809.96	61.84	156.69	-90.00	-3,227.40	3,164.82	2,862.83	2,644.66	218.18	13.122		
9,900.00	7,806.96	7,809.96	7,809.96	63.43	156.69	-90.00	-3,227.40	3,164.82	2,860.82	2,640.88	219.94	13.007		
9,907.47	7,806.96	7,809.96	7,809.96	63.55	156.69	-90.00	-3,227.40	3,164.82	2,860.81	2,640.74	220.07	13.000 CC		
10,000.00	7,806.96	7,809.96	7,809.96	65.02	156.69	-90.00	-3,227.40	3,164.82	2,862.31	2,640.65	221.66	12.913 ES		
10,100.00	7,806.95	7,809.95	7,809.95	66.63	156.69	-90.00	-3,227.40	3,164.82	2,867.29	2,643.97	223.32	12.840		
10,200.00	7,806.95	7,809.95	7,809.95	68.24	156.69	-90.00	-3,227.40	3,164.82	2,875.73	2,650.82	224.91	12.786		
10,300.00	7,806.95	7,809.95	7,809.95	69.86	156.69	-90.00	-3,227.40	3,164.82	2,887.62	2,661.18	226.44	12.752		
10,400.00	7,806.95	7,809.95	7,809.95	71.49	156.69	-90.00	-3,227.40	3,164.82	2,902.90	2,675.02	227.89	12.738 SF		
10,500.00	7,806.94	7,809.94	7,809.94	73.12	156.69	-90.00	-3,227.40	3,164.82	2,921.53	2,692.27	229.26	12.743		
10,600.00	7,806.94	7,809.94	7,809.94	74.76	156.69	-90.00	-3,227.40	3,164.82	2,943.44	2,712.90	230.55	12.767		
10,700.00	7,806.94	7,809.94	7,809.94	76.41	156.69	-90.00	-3,227.40	3,164.82	2,968.56	2,736.81	231.75	12.809		
10,800.00	7,806.94	7,809.94	7,809.94	78.06	156.69	-90.00	-3,227.40	3,164.82	2,996.81	2,763.94	232.87	12.869		
10,900.00	7,806.93	7,809.93	7,809.93	79.72	156.69	-90.00	-3,227.40	3,164.82	3,028.10	2,794.19	233.91	12.946		
11,000.00	7,806.93	7,809.93	7,809.93	81.38	156.69	-90.00	-3,227.40	3,164.82	3,062.33	2,827.47	234.86	13.039		
11,100.00	7,806.93	7,809.93	7,809.93	83.05	156.69	-90.00	-3,227.40	3,164.82	3,099.42	2,863.69	235.73	13.148		
11,200.00	7,806.93	7,809.93	7,809.93	84.72	156.69	-90.00	-3,227.40	3,164.82	3,139.25	2,902.73	236.52	13.273		
11,300.00	7,806.92	7,809.92	7,809.92	86.39	156.69	-90.00	-3,227.40	3,164.82	3,181.73	2,944.49	237.23	13.412		
11,400.00	7,806.92	7,809.92	7,809.92	88.07	156.69	-90.00	-3,227.40	3,164.82	3,226.75	2,988.87	237.88	13.565		
11,500.00	7,806.92	7,809.92	7,809.92	89.75	156.69	-90.00	-3,227.40	3,164.82	3,274.20	3,035.75	238.45	13.731		
11,600.00	7,806.92	7,809.92	7,809.92	91.44	156.69	-90.00	-3,227.40	3,164.82	3,323.99	3,085.04	238.96	13.910		
11,700.00	7,806.91	7,809.91	7,809.91	93.13	156.69	-90.00	-3,227.40	3,164.82	3,376.01	3,136.61	239.40	14.102		
11,800.00	7,806.91	7,809.91	7,809.91	94.82	156.69	-90.00	-3,227.40	3,164.82	3,430.15	3,190.36	239.79	14.305		
11,900.00	7,806.91	7,809.91	7,809.91	96.52	156.69	-90.00	-3,227.40	3,164.82	3,486.32	3,246.20	240.12	14.519		
12,000.00	7,806.91	7,809.91	7,809.91	98.21	156.69	-90.00	-3,227.40	3,164.82	3,544.42	3,304.02	240.41	14.743		
12,100.00	7,806.90	7,809.90	7,809.90	99.91	156.69	-90.00	-3,227.40	3,164.82	3,604.37	3,363.72	240.65	14.978		
12,200.00	7,806.90	7,809.90	7,809.90	101.62	156.69	-90.00	-3,227.40	3,164.82	3,666.05	3,425.21	240.85	15.222		
12,300.00	7,806.90	7,809.90	7,809.90	103.32	156.69	-90.00	-3,227.40	3,164.82	3,729.41	3,488.40	241.00	15.474		
12,400.00	7,806.90	7,809.90	7,809.90	105.03	156.69	-90.00	-3,227.40	3,164.82	3,794.33	3,553.21	241.13	15.736		
12,500.00	7,806.89	7,809.89	7,809.89	106.74	156.69	-90.00	-3,227.40	3,164.82	3,860.76	3,619.54	241.22	16.005		
12,600.00	7,806.89	7,809.89	7,809.89	108.45	156.69	-90.00	-3,227.40	3,164.82	3,928.61	3,687.33	241.28	16.282		
12,700.00	7,806.89	7,809.89	7,809.89	110.17	156.69	-90.00	-3,227.40	3,164.82	3,997.81	3,756.49	241.32	16.567		
12,800.00	7,806.89	7,809.89	7,809.89	111.88	156.69	-90.00	-3,227.40	3,164.82	4,068.29	3,826.96	241.33	16.858		
12,900.00	7,806.88	7,809.88	7,809.88	113.60	156.69	-90.00	-3,227.40	3,164.82	4,139.99	3,898.66	241.32	17.155		
13,000.00	7,806.88	7,809.88	7,809.88	115.32	156.69	-90.00	-3,227.40	3,164.82	4,212.84	3,971.54	241.30	17.459		
13,100.00	7,806.88	7,809.88	7,809.88	117.04	156.69	-90.00	-3,227.40	3,164.82	4,286.78	4,045.53	241.25	17.769		
13,200.00	7,806.88	7,809.88	7,809.88	118.76	156.69	-90.00	-3,227.40	3,164.82	4,361.77	4,120.57	241.19	18.084		
13,300.00	7,806.87	7,809.87	7,809.87	120.48	156.69	-90.00	-3,227.40	3,164.82	4,437.74	4,196.62	241.12	18.405		
13,400.00	7,806.87	7,809.87	7,809.87	122.21	156.69	-90.00	-3,227.40	3,164.82	4,514.65	4,273.61	241.04	18.730		
13,500.00	7,806.87	7,809.87	7,809.87	123.94	156.69	-90.00	-3,227.40	3,164.82	4,592.44	4,351.50	240.94	19.060		
13,600.00	7,806.87	7,809.87	7,809.87	125.66	156.69	-90.00	-3,227.40	3,164.82	4,671.09	4,430.25	240.84	19.395		
13,700.00	7,806.86	7,809.86	7,809.86	127.39	156.69	-90.00	-3,227.40	3,164.82	4,750.53	4,509.80	240.73	19.734		
13,800.00	7,806.86	7,809.86	7,809.86	129.12	156.69	-90.00	-3,227.40	3,164.82	4,830.74	4,590.13	240.61	20.077		
13,900.00	7,806.86	7,809.86	7,809.86	130.85	156.69	-90.00	-3,227.40	3,164.82	4,911.68	4,671.19	240.49	20.424		
14,000.00	7,806.86	7,809.86	7,809.86	132.59	156.69	-90.00	-3,227.40	3,164.82	4,993.30	4,752.94	240.36	20.774		

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-20-3N
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-20-3N	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		
14,100.00	7,806.85	7,809.85	7,809.85	134.32	156.69	-90.00	-3,227.40	3,164.82	5,075.59	4,835.36	240.23	21.128		
14,200.00	7,806.85	7,809.85	7,809.85	136.06	156.69	-90.00	-3,227.40	3,164.82	5,158.50	4,918.40	240.09	21.485		
14,300.00	7,806.85	7,809.85	7,809.85	137.79	156.69	-90.00	-3,227.40	3,164.82	5,242.00	5,002.05	239.96	21.846		
14,400.00	7,806.85	7,809.85	7,809.85	139.53	156.69	-90.00	-3,227.40	3,164.82	5,326.08	5,086.26	239.82	22.209		
14,500.00	7,806.84	7,809.84	7,809.84	141.27	156.69	-90.00	-3,227.40	3,164.82	5,410.69	5,171.02	239.67	22.575		
14,600.00	7,806.84	7,809.84	7,809.84	143.00	156.69	-90.00	-3,227.40	3,164.82	5,495.83	5,256.30	239.53	22.944		
14,700.00	7,806.84	7,809.84	7,809.84	144.74	156.69	-90.00	-3,227.40	3,164.82	5,581.45	5,342.06	239.39	23.315		
14,800.00	7,806.84	7,809.84	7,809.84	146.48	156.69	-90.00	-3,227.40	3,164.82	5,667.55	5,428.31	239.24	23.689		
14,900.00	7,806.83	7,809.83	7,809.83	148.22	156.69	-90.00	-3,227.40	3,164.82	5,754.10	5,515.00	239.10	24.066		
15,000.00	7,806.83	7,809.83	7,809.83	149.97	156.69	-90.00	-3,227.40	3,164.82	5,841.07	5,602.11	238.96	24.444		
15,100.00	7,806.83	7,809.83	7,809.83	151.71	156.69	-90.00	-3,227.40	3,164.82	5,928.46	5,689.64	238.82	24.824		
15,200.00	7,806.83	7,809.83	7,809.83	153.45	156.69	-90.00	-3,227.40	3,164.82	6,016.24	5,777.57	238.67	25.207		
15,300.00	7,806.82	7,809.82	7,809.82	155.19	156.69	-90.00	-3,227.40	3,164.82	6,104.40	5,865.86	238.53	25.591		
15,400.00	7,806.82	7,809.82	7,809.82	156.94	156.69	-90.00	-3,227.40	3,164.82	6,192.91	5,954.52	238.39	25.978		
15,500.00	7,806.82	7,809.82	7,809.82	158.68	156.69	-90.00	-3,227.40	3,164.82	6,281.77	6,043.52	238.26	26.366		
15,600.00	7,806.82	7,809.82	7,809.82	160.43	156.69	-90.00	-3,227.40	3,164.82	6,370.96	6,132.84	238.12	26.755		
15,700.00	7,806.81	7,809.81	7,809.81	162.18	156.69	-90.00	-3,227.40	3,164.82	6,460.47	6,222.48	237.99	27.146		
15,800.00	7,806.81	7,809.81	7,809.81	163.92	156.69	-90.00	-3,227.40	3,164.82	6,550.28	6,312.43	237.85	27.539		
15,900.00	7,806.81	7,809.81	7,809.81	165.67	156.69	-90.00	-3,227.40	3,164.82	6,640.38	6,402.66	237.72	27.933		
16,000.00	7,806.81	7,809.81	7,809.81	167.42	156.69	-90.00	-3,227.40	3,164.82	6,730.76	6,493.17	237.59	28.329		
16,100.00	7,806.80	7,809.80	7,809.80	169.17	156.69	-90.00	-3,227.40	3,164.82	6,821.41	6,583.95	237.47	28.726		
16,200.00	7,806.80	7,809.80	7,809.80	170.91	156.69	-90.00	-3,227.40	3,164.82	6,912.32	6,674.98	237.34	29.124		
16,300.00	7,806.80	7,809.80	7,809.80	172.66	156.69	-90.00	-3,227.40	3,164.82	7,003.48	6,766.26	237.22	29.523		
16,400.00	7,806.80	7,809.80	7,809.80	174.41	156.69	-90.00	-3,227.40	3,164.82	7,094.87	6,857.77	237.10	29.923		
16,500.00	7,806.79	7,809.79	7,809.79	176.16	156.69	-90.00	-3,227.40	3,164.82	7,186.50	6,949.51	236.98	30.325		
16,600.00	7,806.79	7,809.79	7,809.79	177.92	156.69	-90.00	-3,227.40	3,164.82	7,278.34	7,041.47	236.87	30.727		
16,700.00	7,806.79	7,809.79	7,809.79	179.67	156.69	-90.00	-3,227.40	3,164.82	7,370.40	7,133.64	236.75	31.131		
16,800.00	7,806.79	7,809.79	7,809.79	181.42	156.69	-90.00	-3,227.40	3,164.82	7,462.66	7,226.01	236.64	31.535		
16,900.00	7,806.78	7,809.78	7,809.78	183.17	156.69	-90.00	-3,227.40	3,164.82	7,555.11	7,318.58	236.54	31.941		
17,000.00	7,806.78	7,809.78	7,809.78	184.92	156.69	-90.00	-3,227.40	3,164.82	7,647.76	7,411.33	236.43	32.347		
17,100.00	7,806.78	7,809.78	7,809.78	186.68	156.69	-90.00	-3,227.40	3,164.82	7,740.59	7,504.27	236.33	32.754		
17,200.00	7,806.78	7,809.78	7,809.78	188.43	156.69	-90.00	-3,227.40	3,164.82	7,833.60	7,597.38	236.22	33.162		
17,300.00	7,806.77	7,809.77	7,809.77	190.18	156.69	-90.00	-3,227.40	3,164.82	7,926.78	7,690.65	236.12	33.570		
17,400.00	7,806.77	7,809.77	7,809.77	191.94	156.69	-90.00	-3,227.40	3,164.82	8,020.12	7,784.09	236.03	33.980		
17,500.00	7,806.77	7,809.77	7,809.77	193.69	156.69	-90.00	-3,227.40	3,164.82	8,113.62	7,877.69	235.93	34.390		
17,600.00	7,806.77	7,809.77	7,809.77	195.45	156.69	-90.00	-3,227.40	3,164.82	8,207.27	7,971.43	235.84	34.800		
17,700.00	7,806.76	7,809.76	7,809.76	197.20	156.69	-90.00	-3,227.40	3,164.82	8,301.07	8,065.32	235.75	35.211		
17,800.00	7,806.76	7,809.76	7,809.76	198.96	156.69	-90.00	-3,227.40	3,164.82	8,395.02	8,159.36	235.66	35.623		
17,877.44	7,807.00	7,810.00	7,810.00	200.32	156.69	-90.00	-3,227.40	3,164.82	8,467.84	8,232.24	235.60	35.942		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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		
7,850.00	7,683.15	7,941.29	7,653.37	34.71	42.01	-48.54	-9,361.74	6,037.89	9,969.32	9,901.14	68.18	146.215		
7,900.00	7,712.45	7,958.54	7,670.62	35.23	42.06	-52.06	-9,361.77	6,037.70	9,935.96	9,867.51	68.46	145.139		
7,950.00	7,738.11	7,973.67	7,685.75	35.78	42.09	-56.17	-9,361.79	6,037.55	9,900.75	9,832.02	68.73	144.063		
8,000.00	7,759.93	7,986.57	7,698.64	36.35	42.13	-60.89	-9,361.82	6,037.44	9,863.93	9,794.95	68.98	142.990		
8,050.00	7,777.75	8,006.00	7,718.07	36.93	42.17	-66.32	-9,361.87	6,037.31	9,825.81	9,756.56	69.25	141.881		
8,100.00	7,791.43	8,006.00	7,718.07	37.53	42.17	-72.21	-9,361.87	6,037.31	9,786.65	9,717.18	69.47	140.872		
8,150.00	7,800.87	8,013.84	7,725.92	38.14	42.19	-78.68	-9,361.89	6,037.26	9,746.77	9,677.06	69.70	139.829		
8,200.00	7,806.00	8,018.79	7,730.87	38.76	42.20	-85.47	-9,361.91	6,037.22	9,706.46	9,636.53	69.93	138.810		
8,233.89	7,807.00	8,019.83	7,731.90	39.18	42.21	-90.13	-9,361.91	6,037.22	9,679.05	9,608.98	70.07	138.137		
8,300.00	7,807.00	8,020.01	7,732.08	40.00	42.21	-90.13	-9,361.91	6,037.22	9,625.69	9,555.34	70.35	136.827		
8,400.00	7,807.00	8,020.29	7,732.36	41.29	42.21	-90.14	-9,361.91	6,037.21	9,545.27	9,474.45	70.81	134.797		
8,500.00	7,806.99	8,020.56	7,732.64	42.60	42.21	-90.14	-9,361.91	6,037.21	9,465.22	9,393.90	71.32	132.714		
8,600.00	7,806.99	8,020.84	7,732.91	43.95	42.21	-90.14	-9,361.91	6,037.21	9,385.55	9,313.67	71.87	130.584		
8,700.00	7,806.99	8,021.11	7,733.19	45.33	42.21	-90.14	-9,361.92	6,037.21	9,306.27	9,233.80	72.47	128.413		
8,800.00	7,806.99	8,021.39	7,733.47	46.74	42.21	-90.15	-9,361.92	6,037.21	9,227.40	9,154.29	73.11	126.205		
8,900.00	7,806.98	8,021.67	7,733.74	48.17	42.21	-90.15	-9,361.92	6,037.21	9,148.94	9,075.14	73.80	123.966		
9,000.00	7,806.98	8,021.95	7,734.02	49.62	42.21	-90.15	-9,361.92	6,037.20	9,070.91	8,996.37	74.53	121.703		
9,100.00	7,806.98	8,022.22	7,734.30	51.09	42.21	-90.16	-9,361.92	6,037.20	8,993.31	8,918.00	75.31	119.420		
9,200.00	7,806.98	8,022.50	7,734.58	52.59	42.21	-90.16	-9,361.92	6,037.20	8,916.15	8,840.03	76.13	117.124		
9,300.00	7,806.97	8,022.78	7,734.85	54.09	42.21	-90.16	-9,361.92	6,037.20	8,839.46	8,762.47	76.99	114.819		
9,400.00	7,806.97	8,023.06	7,735.13	55.62	42.21	-90.16	-9,361.92	6,037.20	8,763.23	8,685.34	77.89	112.510		
9,500.00	7,806.97	8,023.34	7,735.41	57.16	42.21	-90.17	-9,361.92	6,037.20	8,687.49	8,608.65	78.83	110.202		
9,600.00	7,806.97	8,023.62	7,735.69	58.71	42.21	-90.17	-9,361.92	6,037.19	8,612.24	8,532.42	79.82	107.900		
9,700.00	7,806.96	8,023.90	7,735.97	60.27	42.21	-90.17	-9,361.92	6,037.19	8,537.49	8,456.65	80.84	105.608		
9,800.00	7,806.96	8,024.18	7,736.25	61.84	42.22	-90.18	-9,361.92	6,037.19	8,463.28	8,381.37	81.91	103.329		
9,900.00	7,806.96	8,024.46	7,736.53	63.43	42.22	-90.18	-9,361.93	6,037.19	8,389.59	8,306.58	83.01	101.068		
10,000.00	7,806.96	8,024.74	7,736.81	65.02	42.22	-90.18	-9,361.93	6,037.19	8,316.46	8,232.30	84.15	98.827		
10,100.00	7,806.95	8,025.02	7,737.09	66.63	42.22	-90.18	-9,361.93	6,037.18	8,243.89	8,158.55	85.33	96.610		
10,200.00	7,806.95	8,025.30	7,737.37	68.24	42.22	-90.19	-9,361.93	6,037.18	8,171.89	8,085.34	86.55	94.419		
10,300.00	7,806.95	8,025.58	7,737.65	69.86	42.22	-90.19	-9,361.93	6,037.18	8,100.50	8,012.69	87.80	92.256		
10,400.00	7,806.95	8,025.86	7,737.94	71.49	42.22	-90.19	-9,361.93	6,037.18	8,029.71	7,940.62	89.10	90.124		
10,500.00	7,806.94	8,026.14	7,738.22	73.12	42.22	-90.20	-9,361.93	6,037.18	7,959.55	7,869.13	90.42	88.025		
10,600.00	7,806.94	8,026.43	7,738.50	74.76	42.22	-90.20	-9,361.93	6,037.18	7,890.04	7,798.25	91.79	85.960		
10,700.00	7,806.94	8,026.71	7,738.78	76.41	42.22	-90.20	-9,361.93	6,037.17	7,821.18	7,728.00	93.19	83.930		
10,800.00	7,806.94	8,026.99	7,739.07	78.06	42.22	-90.20	-9,361.93	6,037.17	7,753.01	7,658.39	94.62	81.938		
10,900.00	7,806.93	8,027.28	7,739.35	79.72	42.22	-90.21	-9,361.93	6,037.17	7,685.53	7,589.44	96.09	79.984		
11,000.00	7,806.93	8,027.56	7,739.63	81.38	42.22	-90.21	-9,361.93	6,037.17	7,618.76	7,521.17	97.59	78.068		
11,100.00	7,806.93	8,027.84	7,739.92	83.05	42.22	-90.21	-9,361.94	6,037.17	7,552.73	7,453.60	99.13	76.193		
11,200.00	7,806.93	8,028.13	7,740.20	84.72	42.23	-90.22	-9,361.94	6,037.17	7,487.45	7,386.76	100.70	74.357		
11,300.00	7,806.92	8,028.41	7,740.49	86.39	42.23	-90.22	-9,361.94	6,037.16	7,422.95	7,320.65	102.30	72.562		
11,400.00	7,806.92	8,028.70	7,740.77	88.07	42.23	-90.22	-9,361.94	6,037.16	7,359.23	7,255.30	103.93	70.808		
11,500.00	7,806.92	8,028.98	7,741.06	89.75	42.23	-90.22	-9,361.94	6,037.16	7,296.34	7,190.74	105.60	69.096		
11,600.00	7,806.92	8,029.27	7,741.34	91.44	42.23	-90.23	-9,361.94	6,037.16	7,234.28	7,126.98	107.29	67.425		
11,700.00	7,806.91	8,029.56	7,741.63	93.13	42.23	-90.23	-9,361.94	6,037.16	7,173.07	7,064.05	109.02	65.794		
11,800.00	7,806.91	8,029.84	7,741.92	94.82	42.23	-90.23	-9,361.94	6,037.15	7,112.75	7,001.97	110.78	64.206		
11,900.00	7,806.91	8,030.13	7,742.20	96.52	42.23	-90.24	-9,361.94	6,037.15	7,053.32	6,940.75	112.57	62.658		
12,000.00	7,806.91	8,030.42	7,742.49	98.21	42.23	-90.24	-9,361.94	6,037.15	6,994.82	6,880.44	114.39	61.151		
12,100.00	7,806.90	8,030.70	7,742.78	99.91	42.23	-90.24	-9,361.94	6,037.15	6,937.27	6,821.04	116.23	59.685		
12,200.00	7,806.90	8,030.99	7,743.06	101.62	42.23	-90.24	-9,361.95	6,037.15	6,880.70	6,762.59	118.10	58.260		
12,300.00	7,806.90	8,031.28	7,743.35	103.32	42.23	-90.25	-9,361.95	6,037.15	6,825.11	6,705.11	120.00	56.874		
12,400.00	7,806.90	8,031.57	7,743.64	105.03	42.23	-90.25	-9,361.95	6,037.14	6,770.55	6,648.62	121.93	55.528		
12,500.00	7,806.89	8,031.86	7,743.93	106.74	42.23	-90.25	-9,361.95	6,037.14	6,717.04	6,593.16	123.88	54.222		

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-20-3N
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-20-3N	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		
12,600.00	7,806.89	8,032.14	7,744.22	108.45	42.23	-90.26	-9,361.95	6,037.14	6,664.59	6,538.73	125.86	52.954		
12,700.00	7,806.89	8,032.43	7,744.51	110.17	42.24	-90.26	-9,361.95	6,037.14	6,613.24	6,485.39	127.86	51.724		
12,800.00	7,806.89	8,032.72	7,744.80	111.88	42.24	-90.26	-9,361.95	6,037.14	6,563.02	6,433.14	129.88	50.532		
12,900.00	7,806.88	8,033.01	7,745.09	113.60	42.24	-90.26	-9,361.95	6,037.13	6,513.94	6,382.02	131.92	49.377		
13,000.00	7,806.88	8,033.30	7,745.38	115.32	42.24	-90.27	-9,361.95	6,037.13	6,466.03	6,332.05	133.99	48.259		
13,100.00	7,806.88	8,033.60	7,745.67	117.04	42.24	-90.27	-9,361.95	6,037.13	6,419.33	6,283.26	136.07	47.177		
13,200.00	7,806.88	8,033.89	7,745.96	118.76	42.24	-90.27	-9,361.95	6,037.13	6,373.85	6,235.68	138.17	46.131		
13,300.00	7,806.87	8,034.18	7,746.25	120.48	42.24	-90.28	-9,361.96	6,037.13	6,329.63	6,189.34	140.29	45.120		
13,400.00	7,806.87	8,034.47	7,746.54	122.21	42.24	-90.28	-9,361.96	6,037.13	6,286.69	6,144.27	142.42	44.143		
13,500.00	7,806.87	8,034.76	7,746.84	123.94	42.24	-90.28	-9,361.96	6,037.12	6,245.05	6,100.49	144.56	43.200		
13,600.00	7,806.87	8,035.05	7,747.13	125.66	42.24	-90.28	-9,361.96	6,037.12	6,204.74	6,058.02	146.72	42.290		
13,700.00	7,806.86	8,035.35	7,747.42	127.39	42.24	-90.29	-9,361.96	6,037.12	6,165.79	6,016.91	148.89	41.413		
13,800.00	7,806.86	8,035.64	7,747.71	129.12	42.24	-90.29	-9,361.96	6,037.12	6,128.23	5,977.17	151.06	40.568		
13,900.00	7,806.86	8,035.93	7,748.01	130.85	42.24	-90.29	-9,361.96	6,037.12	6,092.08	5,938.84	153.24	39.754		
14,000.00	7,806.86	8,036.23	7,748.30	132.59	42.24	-90.30	-9,361.96	6,037.11	6,057.36	5,901.93	155.43	38.972		
14,100.00	7,806.85	8,036.52	7,748.60	134.32	42.25	-90.30	-9,361.96	6,037.11	6,024.10	5,866.48	157.62	38.219		
14,200.00	7,806.85	8,036.82	7,748.89	136.06	42.25	-90.30	-9,361.96	6,037.11	5,992.33	5,832.52	159.81	37.496		
14,300.00	7,806.85	8,037.11	7,749.18	137.79	42.25	-90.31	-9,361.96	6,037.11	5,962.07	5,800.06	162.00	36.803		
14,400.00	7,806.85	8,037.41	7,749.48	139.53	42.25	-90.31	-9,361.97	6,037.11	5,933.33	5,769.14	164.19	36.138		
14,500.00	7,806.84	8,037.70	7,749.78	141.27	42.25	-90.31	-9,361.97	6,037.11	5,906.15	5,739.78	166.37	35.500		
14,600.00	7,806.84	8,038.00	7,750.07	143.00	42.25	-90.31	-9,361.97	6,037.10	5,880.55	5,712.00	168.54	34.891		
14,700.00	7,806.84	8,038.29	7,750.37	144.74	42.25	-90.32	-9,361.97	6,037.10	5,856.54	5,685.83	170.71	34.308		
14,800.00	7,806.84	8,038.59	7,750.66	146.48	42.25	-90.32	-9,361.97	6,037.10	5,834.14	5,661.28	172.86	33.751		
14,900.00	7,806.83	8,038.89	7,750.96	148.22	42.25	-90.32	-9,361.97	6,037.10	5,813.38	5,638.39	175.00	33.220		
15,000.00	7,806.83	8,039.18	7,751.26	149.97	42.25	-90.33	-9,361.97	6,037.10	5,794.28	5,617.16	177.12	32.714		
15,100.00	7,806.83	8,039.48	7,751.56	151.71	42.25	-90.33	-9,361.97	6,037.09	5,776.83	5,597.61	179.22	32.233		
15,200.00	7,806.83	8,039.78	7,751.85	153.45	42.25	-90.33	-9,361.97	6,037.09	5,761.08	5,579.77	181.30	31.776		
15,300.00	7,806.82	8,040.08	7,752.15	155.19	42.25	-90.34	-9,361.97	6,037.09	5,747.02	5,563.65	183.36	31.342		
15,400.00	7,806.82	8,040.38	7,752.45	156.94	42.25	-90.34	-9,361.97	6,037.09	5,734.67	5,549.27	185.40	30.932		
15,500.00	7,806.82	8,040.68	7,752.75	158.68	42.25	-90.34	-9,361.98	6,037.09	5,724.04	5,536.63	187.41	30.544		
15,600.00	7,806.82	8,040.98	7,753.05	160.43	42.26	-90.34	-9,361.98	6,037.09	5,715.14	5,525.76	189.38	30.178		
15,700.00	7,806.81	8,041.27	7,753.35	162.18	42.26	-90.35	-9,361.98	6,037.08	5,707.98	5,516.65	191.33	29.833		
15,800.00	7,806.81	8,041.57	7,753.65	163.92	42.26	-90.35	-9,361.98	6,037.08	5,702.56	5,509.32	193.24	29.510		
15,900.00	7,806.81	8,041.88	7,753.95	165.67	42.26	-90.35	-9,361.98	6,037.08	5,698.90	5,503.78	195.12	29.207		
16,000.00	7,806.81	8,042.18	7,754.25	167.42	42.26	-90.36	-9,361.98	6,037.08	5,696.98	5,500.02	196.96	28.925		
16,059.01	7,806.81	8,042.35	7,754.43	168.45	42.26	-90.36	-9,361.98	6,037.08	5,696.68	5,498.65	198.03	28.767 CC		
16,100.00	7,806.80	8,042.48	7,754.55	169.17	42.26	-90.36	-9,361.98	6,037.08	5,696.82	5,498.07	198.76	28.662		
16,200.00	7,806.80	8,042.78	7,754.85	170.91	42.26	-90.36	-9,361.98	6,037.07	5,698.42	5,497.90	200.52	28.418 ES		
16,300.00	7,806.80	8,043.08	7,755.15	172.66	42.26	-90.37	-9,361.98	6,037.07	5,701.77	5,499.54	202.24	28.194		
16,400.00	7,806.80	8,043.38	7,755.46	174.41	42.26	-90.37	-9,361.98	6,037.07	5,706.87	5,502.96	203.91	27.987		
16,500.00	7,806.79	8,043.69	7,755.76	176.16	42.26	-90.37	-9,361.98	6,037.07	5,713.72	5,508.18	205.54	27.799		
16,600.00	7,806.79	8,043.99	7,756.06	177.92	42.26	-90.37	-9,361.99	6,037.07	5,722.31	5,515.18	207.12	27.628		
16,700.00	7,806.79	8,044.29	7,756.37	179.67	42.26	-90.38	-9,361.99	6,037.06	5,732.62	5,523.97	208.66	27.474		
16,800.00	7,806.79	8,044.60	7,756.67	181.42	42.26	-90.38	-9,361.99	6,037.06	5,744.67	5,534.52	210.15	27.337		
16,900.00	7,806.78	8,044.90	7,756.97	183.17	42.26	-90.38	-9,361.99	6,037.06	5,758.42	5,546.83	211.58	27.216		
17,000.00	7,806.78	8,045.20	7,757.28	184.92	42.27	-90.39	-9,361.99	6,037.06	5,773.87	5,560.90	212.97	27.111		
17,100.00	7,806.78	8,045.51	7,757.58	186.68	42.27	-90.39	-9,361.99	6,037.06	5,791.01	5,576.70	214.31	27.022		
17,200.00	7,806.78	8,045.81	7,757.89	188.43	42.27	-90.39	-9,361.99	6,037.05	5,809.82	5,594.22	215.60	26.948		
17,300.00	7,806.77	8,046.12	7,758.19	190.18	42.27	-90.40	-9,361.99	6,037.05	5,830.28	5,613.45	216.83	26.888		
17,400.00	7,806.77	8,046.42	7,758.50	191.94	42.27	-90.40	-9,361.99	6,037.05	5,852.38	5,634.36	218.02	26.844		
17,500.00	7,806.77	8,046.73	7,758.80	193.69	42.27	-90.40	-9,361.99	6,037.05	5,876.10	5,656.95	219.15	26.813		
17,600.00	7,806.77	8,047.04	7,759.11	195.45	42.27	-90.41	-9,362.00	6,037.05	5,901.42	5,681.19	220.23	26.796		

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-20-3N
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-20-3N	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	
17,700.00	7,806.76	8,047.34	7,759.42	197.20	42.27	-90.41	-9,362.00	6,037.05	5,928.32	5,707.05	221.26	26.793 SF	
17,800.00	7,806.76	8,047.65	7,759.73	198.96	42.27	-90.41	-9,362.00	6,037.04	5,956.77	5,734.53	222.24	26.803	
17,877.44	7,807.00	8,048.13	7,760.20	200.32	42.27	-90.41	-9,362.00	6,037.04	5,979.79	5,756.82	222.97	26.819	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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		
8,300.00	7,807.00	7,772.00	7,772.00	40.00	155.93	-90.00	-10,730.89	4,382.12	9,970.37	9,784.88	185.49	53.751		
8,400.00	7,807.00	7,772.00	7,772.00	41.29	155.93	-90.00	-10,730.89	4,382.12	9,879.00	9,693.28	185.72	53.194		
8,500.00	7,806.99	7,771.99	7,771.99	42.60	155.93	-90.00	-10,730.89	4,382.12	9,787.80	9,601.83	185.97	52.631		
8,600.00	7,806.99	7,771.99	7,771.99	43.95	155.93	-90.00	-10,730.89	4,382.12	9,696.77	9,510.52	186.25	52.063		
8,700.00	7,806.99	7,771.99	7,771.99	45.33	155.93	-90.00	-10,730.89	4,382.12	9,605.93	9,419.37	186.56	51.490		
8,800.00	7,806.99	7,771.99	7,771.99	46.74	155.93	-90.00	-10,730.89	4,382.12	9,515.26	9,328.37	186.89	50.912		
8,900.00	7,806.98	7,771.98	7,771.98	48.17	155.93	-90.00	-10,730.89	4,382.12	9,424.79	9,237.52	187.26	50.330		
9,000.00	7,806.98	7,771.98	7,771.98	49.62	155.93	-90.00	-10,730.89	4,382.12	9,334.50	9,146.85	187.66	49.742		
9,100.00	7,806.98	7,771.98	7,771.98	51.09	155.93	-90.00	-10,730.89	4,382.12	9,244.42	9,056.34	188.09	49.150		
9,200.00	7,806.98	7,771.98	7,771.98	52.59	155.93	-90.00	-10,730.89	4,382.12	9,154.55	8,966.00	188.54	48.554		
9,300.00	7,806.97	7,771.97	7,771.97	54.09	155.93	-90.00	-10,730.89	4,382.12	9,064.88	8,875.85	189.04	47.953		
9,400.00	7,806.97	7,771.97	7,771.97	55.62	155.93	-90.00	-10,730.89	4,382.12	8,975.44	8,785.88	189.56	47.349		
9,500.00	7,806.97	7,771.97	7,771.97	57.16	155.93	-90.00	-10,730.89	4,382.12	8,886.22	8,696.10	190.12	46.741		
9,600.00	7,806.97	7,771.97	7,771.97	58.71	155.93	-90.00	-10,730.89	4,382.12	8,797.23	8,606.53	190.71	46.130		
9,700.00	7,806.96	7,771.96	7,771.96	60.27	155.93	-90.00	-10,730.89	4,382.12	8,708.48	8,517.15	191.33	45.515		
9,800.00	7,806.96	7,771.96	7,771.96	61.84	155.93	-90.00	-10,730.89	4,382.12	8,619.98	8,427.99	191.99	44.898		
9,900.00	7,806.96	7,771.96	7,771.96	63.43	155.93	-90.00	-10,730.89	4,382.12	8,531.73	8,339.05	192.68	44.279		
10,000.00	7,806.96	7,771.96	7,771.96	65.02	155.93	-90.00	-10,730.89	4,382.12	8,443.75	8,250.34	193.41	43.657		
10,100.00	7,806.95	7,771.95	7,771.95	66.63	155.93	-90.00	-10,730.89	4,382.12	8,356.03	8,161.86	194.17	43.034		
10,200.00	7,806.95	7,771.95	7,771.95	68.24	155.93	-90.00	-10,730.89	4,382.12	8,268.59	8,073.62	194.97	42.409		
10,300.00	7,806.95	7,771.95	7,771.95	69.86	155.93	-90.00	-10,730.89	4,382.12	8,181.44	7,985.64	195.81	41.783		
10,400.00	7,806.95	7,771.95	7,771.95	71.49	155.93	-90.00	-10,730.89	4,382.12	8,094.59	7,897.91	196.68	41.156		
10,500.00	7,806.94	7,771.94	7,771.94	73.12	155.93	-90.00	-10,730.89	4,382.12	8,008.04	7,810.46	197.59	40.529		
10,600.00	7,806.94	7,771.94	7,771.94	74.76	155.93	-90.00	-10,730.89	4,382.12	7,921.82	7,723.28	198.53	39.902		
10,700.00	7,806.94	7,771.94	7,771.94	76.41	155.93	-90.00	-10,730.89	4,382.12	7,835.91	7,636.40	199.52	39.274		
10,800.00	7,806.94	7,771.94	7,771.94	78.06	155.93	-90.00	-10,730.89	4,382.12	7,750.35	7,549.81	200.54	38.648		
10,900.00	7,806.93	7,771.93	7,771.93	79.72	155.93	-90.00	-10,730.89	4,382.12	7,665.14	7,463.54	201.60	38.022		
11,000.00	7,806.93	7,771.93	7,771.93	81.38	155.93	-90.00	-10,730.89	4,382.12	7,580.28	7,377.59	202.70	37.397		
11,100.00	7,806.93	7,771.93	7,771.93	83.05	155.93	-90.00	-10,730.89	4,382.12	7,495.81	7,291.97	203.84	36.774		
11,200.00	7,806.93	7,771.93	7,771.93	84.72	155.93	-90.00	-10,730.89	4,382.12	7,411.71	7,206.70	205.01	36.152		
11,300.00	7,806.92	7,771.92	7,771.92	86.39	155.93	-90.00	-10,730.89	4,382.12	7,328.02	7,121.79	206.23	35.533		
11,400.00	7,806.92	7,771.92	7,771.92	88.07	155.93	-90.00	-10,730.89	4,382.12	7,244.74	7,037.25	207.49	34.916		
11,500.00	7,806.92	7,771.92	7,771.92	89.75	155.93	-90.00	-10,730.89	4,382.12	7,161.89	6,953.10	208.79	34.302		
11,600.00	7,806.92	7,771.92	7,771.92	91.44	155.93	-90.00	-10,730.89	4,382.12	7,079.48	6,869.35	210.13	33.691		
11,700.00	7,806.91	7,771.91	7,771.91	93.13	155.93	-90.00	-10,730.89	4,382.12	6,997.53	6,786.01	211.52	33.083		
11,800.00	7,806.91	7,771.91	7,771.91	94.82	155.93	-90.00	-10,730.89	4,382.12	6,916.05	6,703.11	212.94	32.479		
11,900.00	7,806.91	7,771.91	7,771.91	96.52	155.93	-90.00	-10,730.89	4,382.12	6,835.07	6,620.66	214.41	31.878		
12,000.00	7,806.91	7,771.91	7,771.91	98.21	155.93	-90.00	-10,730.89	4,382.12	6,754.60	6,538.67	215.92	31.282		
12,100.00	7,806.90	7,771.90	7,771.90	99.91	155.93	-90.00	-10,730.89	4,382.12	6,674.65	6,457.17	217.48	30.691		
12,200.00	7,806.90	7,771.90	7,771.90	101.62	155.93	-90.00	-10,730.89	4,382.12	6,595.25	6,376.17	219.08	30.104		
12,300.00	7,806.90	7,771.90	7,771.90	103.32	155.93	-90.00	-10,730.89	4,382.12	6,516.42	6,295.69	220.73	29.522		
12,400.00	7,806.90	7,771.90	7,771.90	105.03	155.92	-90.00	-10,730.89	4,382.12	6,438.18	6,215.76	222.42	28.946		
12,500.00	7,806.89	7,771.89	7,771.89	106.74	155.92	-90.00	-10,730.89	4,382.12	6,360.54	6,136.38	224.16	28.375		
12,600.00	7,806.89	7,771.89	7,771.89	108.45	155.92	-90.00	-10,730.89	4,382.12	6,283.54	6,057.59	225.95	27.810		
12,700.00	7,806.89	7,771.89	7,771.89	110.17	155.92	-90.00	-10,730.89	4,382.12	6,207.20	5,979.42	227.78	27.251		
12,800.00	7,806.89	7,771.89	7,771.89	111.88	155.92	-90.00	-10,730.89	4,382.12	6,131.53	5,901.87	229.66	26.698		
12,900.00	7,806.88	7,771.88	7,771.88	113.60	155.92	-90.00	-10,730.89	4,382.12	6,056.57	5,824.98	231.59	26.152		
13,000.00	7,806.88	7,771.88	7,771.88	115.32	155.92	-90.00	-10,730.89	4,382.12	5,982.35	5,748.78	233.57	25.613		
13,100.00	7,806.88	7,771.88	7,771.88	117.04	155.92	-90.00	-10,730.89	4,382.12	5,908.88	5,673.28	235.60	25.081		
13,200.00	7,806.88	7,771.88	7,771.88	118.76	155.92	-90.00	-10,730.89	4,382.12	5,836.20	5,598.53	237.67	24.556		
13,300.00	7,806.87	7,771.87	7,771.87	120.48	155.92	-90.00	-10,730.89	4,382.12	5,764.34	5,524.54	239.80	24.038		
13,400.00	7,806.87	7,771.87	7,771.87	122.21	155.92	-90.00	-10,730.89	4,382.12	5,693.33	5,451.36	241.97	23.529		

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-20-3N
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-20-3N	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		
13,500.00	7,806.87	7,771.87	7,771.87	123.94	155.92	-90.00	-10,730.89	4,382.12	5,623.20	5,379.00	244.20	23.027		
13,600.00	7,806.87	7,771.87	7,771.87	125.66	155.92	-90.00	-10,730.89	4,382.12	5,553.99	5,307.52	246.47	22.534		
13,700.00	7,806.86	7,771.86	7,771.86	127.39	155.92	-90.00	-10,730.89	4,382.12	5,485.72	5,236.93	248.80	22.049		
13,800.00	7,806.86	7,771.86	7,771.86	129.12	155.92	-90.00	-10,730.89	4,382.12	5,418.45	5,167.28	251.17	21.573		
13,900.00	7,806.86	7,771.86	7,771.86	130.85	155.92	-90.00	-10,730.89	4,382.12	5,352.19	5,098.60	253.59	21.106		
14,000.00	7,806.86	7,771.86	7,771.86	132.59	155.92	-90.00	-10,730.89	4,382.12	5,287.00	5,030.94	256.06	20.648		
14,100.00	7,806.85	7,771.85	7,771.85	134.32	155.92	-90.00	-10,730.89	4,382.12	5,222.90	4,964.33	258.58	20.199		
14,200.00	7,806.85	7,771.85	7,771.85	136.06	155.92	-90.00	-10,730.89	4,382.12	5,159.95	4,898.81	261.14	19.759		
14,300.00	7,806.85	7,771.85	7,771.85	137.79	155.92	-90.00	-10,730.89	4,382.12	5,098.19	4,834.44	263.75	19.330		
14,400.00	7,806.85	7,771.85	7,771.85	139.53	155.92	-90.00	-10,730.89	4,382.12	5,037.65	4,771.24	266.40	18.910		
14,500.00	7,806.84	7,771.84	7,771.84	141.27	155.92	-90.00	-10,730.89	4,382.12	4,978.38	4,709.28	269.10	18.500		
14,600.00	7,806.84	7,771.84	7,771.84	143.00	155.92	-90.00	-10,730.89	4,382.12	4,920.43	4,648.60	271.84	18.101		
14,700.00	7,806.84	7,771.84	7,771.84	144.74	155.92	-90.00	-10,730.89	4,382.12	4,863.85	4,589.24	274.61	17.712		
14,800.00	7,806.84	7,771.84	7,771.84	146.48	155.92	-90.00	-10,730.89	4,382.12	4,808.68	4,531.26	277.42	17.334		
14,900.00	7,806.83	7,771.83	7,771.83	148.22	155.92	-90.00	-10,730.89	4,382.12	4,754.98	4,474.71	280.26	16.966		
15,000.00	7,806.83	7,771.83	7,771.83	149.97	155.92	-90.00	-10,730.89	4,382.12	4,702.79	4,419.65	283.14	16.610		
15,100.00	7,806.83	7,771.83	7,771.83	151.71	155.92	-90.00	-10,730.89	4,382.12	4,652.16	4,366.12	286.04	16.264		
15,200.00	7,806.83	7,771.83	7,771.83	153.45	155.92	-90.00	-10,730.89	4,382.12	4,603.15	4,314.19	288.96	15.930		
15,300.00	7,806.82	7,771.82	7,771.82	155.19	155.92	-90.00	-10,730.89	4,382.12	4,555.81	4,263.90	291.91	15.607		
15,400.00	7,806.82	7,771.82	7,771.82	156.94	155.92	-90.00	-10,730.89	4,382.12	4,510.18	4,215.32	294.86	15.296		
15,500.00	7,806.82	7,771.82	7,771.82	158.68	155.92	-90.00	-10,730.89	4,382.12	4,466.33	4,168.51	297.83	14.996		
15,600.00	7,806.82	7,771.82	7,771.82	160.43	155.92	-90.00	-10,730.89	4,382.12	4,424.31	4,123.51	300.80	14.708		
15,700.00	7,806.81	7,771.81	7,771.81	162.18	155.92	-90.00	-10,730.89	4,382.12	4,384.17	4,080.40	303.77	14.432		
15,800.00	7,806.81	7,771.81	7,771.81	163.92	155.92	-90.00	-10,730.89	4,382.12	4,345.95	4,039.22	306.73	14.168		
15,900.00	7,806.81	7,771.81	7,771.81	165.67	155.92	-90.00	-10,730.89	4,382.12	4,309.72	4,000.04	309.69	13.916		
16,000.00	7,806.81	7,771.81	7,771.81	167.42	155.92	-90.00	-10,730.89	4,382.12	4,275.52	3,962.90	312.62	13.677		
16,100.00	7,806.80	7,771.80	7,771.80	169.17	155.92	-90.00	-10,730.89	4,382.12	4,243.40	3,927.88	315.52	13.449		
16,200.00	7,806.80	7,771.80	7,771.80	170.91	155.92	-90.00	-10,730.89	4,382.12	4,213.41	3,895.02	318.39	13.233		
16,300.00	7,806.80	7,771.80	7,771.80	172.66	155.92	-90.00	-10,730.89	4,382.12	4,185.60	3,864.37	321.23	13.030		
16,400.00	7,806.80	7,771.80	7,771.80	174.41	155.92	-90.00	-10,730.89	4,382.12	4,160.00	3,835.99	324.01	12.839		
16,500.00	7,806.79	7,771.79	7,771.79	176.16	155.92	-90.00	-10,730.89	4,382.12	4,136.67	3,809.92	326.74	12.660		
16,600.00	7,806.79	7,771.79	7,771.79	177.92	155.92	-90.00	-10,730.89	4,382.12	4,115.63	3,786.21	329.41	12.494		
16,700.00	7,806.79	7,771.79	7,771.79	179.67	155.92	-90.00	-10,730.89	4,382.12	4,096.92	3,764.91	332.02	12.340		
16,800.00	7,806.79	7,771.79	7,771.79	181.42	155.92	-90.00	-10,730.89	4,382.12	4,080.59	3,746.04	334.54	12.197		
16,900.00	7,806.78	7,771.78	7,771.78	183.17	155.92	-90.00	-10,730.89	4,382.12	4,066.64	3,729.65	336.99	12.068		
17,000.00	7,806.78	7,771.78	7,771.78	184.92	155.92	-90.00	-10,730.89	4,382.12	4,055.11	3,715.77	339.35	11.950		
17,100.00	7,806.78	7,771.78	7,771.78	186.68	155.92	-90.00	-10,730.89	4,382.12	4,046.03	3,704.42	341.61	11.844		
17,200.00	7,806.78	7,771.78	7,771.78	188.43	155.92	-90.00	-10,730.89	4,382.12	4,039.40	3,695.63	343.77	11.750		
17,300.00	7,806.77	7,771.77	7,771.77	190.18	155.92	-90.00	-10,730.89	4,382.12	4,035.23	3,689.41	345.83	11.668		
17,400.00	7,806.77	7,771.77	7,771.77	191.94	155.92	-90.00	-10,730.89	4,382.12	4,033.55	3,685.77	347.78	11.598		
17,418.06	7,806.77	7,771.77	7,771.77	192.25	155.92	-90.00	-10,730.89	4,382.12	4,033.51	3,685.39	348.12	11.587 CC		
17,500.00	7,806.77	7,771.77	7,771.77	193.69	155.92	-90.00	-10,730.89	4,382.12	4,034.34	3,684.73	349.61	11.539 ES		
17,600.00	7,806.77	7,771.77	7,771.77	195.45	155.92	-90.00	-10,730.89	4,382.12	4,037.61	3,686.28	351.33	11.492		
17,700.00	7,806.76	7,771.76	7,771.76	197.20	155.92	-90.00	-10,730.89	4,382.12	4,043.35	3,690.42	352.93	11.457		
17,800.00	7,806.76	7,771.76	7,771.76	198.96	155.92	-90.00	-10,730.89	4,382.12	4,051.55	3,697.14	354.41	11.432		
17,877.44	7,807.00	7,772.00	7,772.00	200.32	155.93	-90.00	-10,730.89	4,382.12	4,059.51	3,704.04	355.47	11.420 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	9.00	9.00	0.00	0.11	-174.76	-7,377.76	-676.82	7,408.74					
100.00	100.00	109.00	109.00	0.13	1.40	-174.76	-7,377.76	-676.82	7,408.74	7,407.20	1.54	4,814.881		
200.00	200.00	209.00	209.00	0.49	3.67	-174.76	-7,377.76	-676.82	7,408.74	7,404.57	4.17	1,777.606		
300.00	300.00	309.00	309.00	0.85	5.75	-174.76	-7,377.76	-676.82	7,408.74	7,402.14	6.60	1,122.305		
400.00	400.00	409.00	409.00	1.21	7.79	-174.76	-7,377.76	-676.82	7,408.74	7,399.74	9.00	823.117		
500.00	500.00	509.00	509.00	1.57	9.82	-174.76	-7,377.76	-676.82	7,408.74	7,397.35	11.39	650.586		
600.00	600.00	609.00	609.00	1.93	11.84	-174.76	-7,377.76	-676.82	7,408.74	7,394.97	13.77	538.084		
700.00	700.00	709.00	709.00	2.29	13.86	-174.76	-7,377.76	-676.82	7,408.74	7,392.60	16.15	458.851		
800.00	800.00	809.00	809.00	2.64	15.88	-174.76	-7,377.76	-676.82	7,408.74	7,390.22	18.52	400.001		
900.00	900.00	909.00	909.00	3.00	17.89	-174.76	-7,377.76	-676.82	7,408.74	7,387.85	20.90	354.555		
1,000.00	1,000.00	1,009.00	1,009.00	3.36	19.91	-174.76	-7,377.76	-676.82	7,408.74	7,385.47	23.27	318.394		
1,100.00	1,100.00	1,109.00	1,109.00	3.72	21.92	-174.76	-7,377.76	-676.82	7,408.74	7,383.10	25.64	288.935		
1,200.00	1,200.00	1,209.00	1,209.00	4.08	23.94	-174.76	-7,377.76	-676.82	7,408.74	7,380.73	28.01	264.471		
1,300.00	1,300.00	1,309.00	1,309.00	4.44	25.95	-174.76	-7,377.76	-676.82	7,408.74	7,378.36	30.39	243.829		
1,400.00	1,400.00	1,409.00	1,409.00	4.79	27.96	-174.76	-7,377.76	-676.82	7,408.74	7,375.99	32.76	226.178		
1,500.00	1,499.98	1,508.98	1,508.98	5.14	29.97	21.50	-7,377.76	-676.82	7,407.12	7,372.01	35.11	210.972		
1,600.00	1,599.84	1,608.84	1,608.84	5.46	31.98	21.55	-7,377.76	-676.82	7,402.25	7,364.80	37.45	197.674		
1,700.00	1,699.45	1,708.45	1,708.45	5.80	33.99	21.64	-7,377.76	-676.82	7,394.14	7,354.36	39.78	185.860		
1,800.00	1,798.70	1,807.70	1,807.70	6.14	35.98	21.76	-7,377.76	-676.82	7,382.81	7,340.69	42.12	175.295		
1,900.00	1,897.47	1,906.47	1,906.47	6.49	37.97	21.91	-7,377.76	-676.82	7,368.26	7,323.82	44.44	165.788		
1,969.08	1,965.35	1,974.35	1,974.35	6.75	39.34	22.04	-7,377.76	-676.82	7,356.35	7,310.30	46.05	159.754		
2,000.00	1,995.66	2,004.66	2,004.66	6.86	39.95	22.06	-7,377.76	-676.82	7,350.68	7,303.91	46.76	157.184		
2,100.00	2,093.69	2,102.69	2,102.69	7.25	41.92	22.11	-7,377.76	-676.82	7,332.34	7,283.26	49.08	149.388		
2,200.00	2,191.72	2,200.72	2,200.72	7.65	43.89	22.17	-7,377.76	-676.82	7,314.01	7,262.60	51.41	142.281		
2,300.00	2,289.76	2,301.24	2,298.76	8.07	45.91	22.23	-7,377.76	-676.82	7,295.69	7,241.91	53.78	135.652		
2,400.00	2,387.79	2,403.21	2,396.79	8.49	47.96	22.29	-7,377.76	-676.82	7,277.37	7,221.18	56.19	129.509		
2,500.00	2,485.82	2,505.18	2,494.82	8.91	50.02	22.35	-7,377.76	-676.82	7,259.06	7,200.46	58.61	123.864		
2,600.00	2,583.86	2,607.14	2,592.86	9.35	52.07	22.41	-7,377.76	-676.82	7,240.76	7,179.74	61.02	118.660		
2,700.00	2,681.89	2,709.11	2,690.89	9.79	54.12	22.47	-7,377.76	-676.82	7,222.47	7,159.03	63.44	113.848		
2,800.00	2,779.92	2,788.92	2,788.92	10.24	55.72	22.53	-7,377.76	-676.82	7,204.19	7,138.77	65.41	110.131		
2,900.00	2,877.96	2,886.96	2,886.96	10.69	57.69	22.59	-7,377.76	-676.82	7,185.91	7,118.15	67.76	106.051		
3,000.00	2,975.99	2,984.99	2,984.99	11.14	59.67	22.65	-7,377.76	-676.82	7,167.64	7,097.54	70.10	102.242		
3,100.00	3,074.02	3,083.02	3,083.02	11.60	61.64	22.71	-7,377.76	-676.82	7,149.38	7,076.93	72.45	98.677		
3,200.00	3,172.06	3,181.06	3,181.06	12.06	63.61	22.77	-7,377.76	-676.82	7,131.12	7,056.32	74.80	95.334		
3,300.00	3,270.09	3,279.09	3,279.09	12.52	65.58	22.83	-7,377.76	-676.82	7,112.88	7,035.73	77.15	92.193		
3,400.00	3,368.12	3,377.12	3,377.12	12.98	67.55	22.89	-7,377.76	-676.82	7,094.64	7,015.14	79.50	89.236		
3,500.00	3,466.16	3,475.16	3,475.16	13.45	69.53	22.95	-7,377.76	-676.82	7,076.41	6,994.55	81.86	86.448		
3,600.00	3,564.19	3,573.19	3,573.19	13.92	71.50	23.01	-7,377.76	-676.82	7,058.19	6,973.98	84.21	83.815		
3,700.00	3,662.23	3,671.23	3,671.23	14.39	73.47	23.08	-7,377.76	-676.82	7,039.97	6,953.41	86.57	81.324		
3,800.00	3,760.26	3,769.26	3,769.26	14.86	75.44	23.14	-7,377.76	-676.82	7,021.77	6,932.85	88.92	78.964		
3,900.00	3,858.29	3,867.29	3,867.29	15.34	77.41	23.20	-7,377.76	-676.82	7,003.57	6,912.29	91.28	76.726		
4,000.00	3,956.33	3,965.33	3,965.33	15.81	79.38	23.27	-7,377.76	-676.82	6,985.38	6,891.74	93.64	74.599		
4,100.00	4,054.36	4,063.36	4,063.36	16.29	81.35	23.33	-7,377.76	-676.82	6,967.20	6,871.20	96.00	72.577		
4,200.00	4,152.39	4,161.39	4,161.39	16.77	83.33	23.40	-7,377.76	-676.82	6,949.03	6,850.67	98.36	70.650		
4,300.00	4,250.43	4,259.43	4,259.43	17.25	85.30	23.46	-7,377.76	-676.82	6,930.87	6,830.15	100.72	68.814		
4,400.00	4,348.46	4,357.46	4,357.46	17.73	87.27	23.52	-7,377.76	-676.82	6,912.71	6,809.63	103.08	67.062		
4,500.00	4,446.49	4,455.49	4,455.49	18.21	89.24	23.59	-7,377.76	-676.82	6,894.57	6,789.12	105.44	65.387		
4,600.00	4,544.53	4,553.53	4,553.53	18.69	91.21	23.66	-7,377.76	-676.82	6,876.43	6,768.62	107.80	63.786		
4,700.00	4,642.56	4,651.56	4,651.56	19.17	93.18	23.72	-7,377.76	-676.82	6,858.30	6,748.13	110.17	62.253		
4,800.00	4,740.59	4,749.59	4,749.59	19.65	95.16	23.79	-7,377.76	-676.82	6,840.18	6,727.65	112.53	60.785		
4,900.00	4,838.63	4,847.63	4,847.63	20.13	97.13	23.85	-7,377.76	-676.82	6,822.07	6,707.17	114.90	59.376		
5,000.00	4,936.66	4,945.66	4,945.66	20.62	99.10	23.92	-7,377.76	-676.82	6,803.97	6,686.71	117.26	58.024		

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-20-3N
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-20-3N	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	5,034.69	5,043.69	5,043.69	21.10	101.07	23.99	-7,377.76	-676.82	6,785.87	6,666.25	119.63	56.725		
5,200.00	5,132.73	5,141.73	5,141.73	21.59	103.04	24.06	-7,377.76	-676.82	6,767.79	6,645.80	121.99	55.477		
5,300.00	5,230.76	5,239.76	5,239.76	22.07	105.01	24.12	-7,377.76	-676.82	6,749.72	6,625.36	124.36	54.276		
5,400.00	5,328.79	5,337.79	5,337.79	22.56	106.98	24.19	-7,377.76	-676.82	6,731.65	6,604.93	126.73	53.119		
5,500.00	5,426.83	5,435.83	5,435.83	23.04	108.96	24.26	-7,377.76	-676.82	6,713.60	6,584.50	129.09	52.005		
5,600.00	5,524.86	5,533.86	5,533.86	23.53	110.93	24.33	-7,377.76	-676.82	6,695.55	6,564.09	131.46	50.931		
5,700.00	5,622.89	5,625.00	5,625.00	24.02	112.76	24.40	-7,377.76	-676.82	6,677.52	6,543.83	133.69	49.947		
5,800.00	5,720.93	5,625.00	5,625.00	24.50	112.76	24.40	-7,377.76	-676.82	6,660.31	6,526.21	134.11	49.664		
5,900.00	5,818.96	5,625.00	5,625.00	24.99	112.76	24.40	-7,377.76	-676.82	6,644.57	6,510.08	134.49	49.404		
6,000.00	5,916.99	5,625.00	5,625.00	25.48	112.76	24.40	-7,377.76	-676.82	6,630.30	6,495.44	134.85	49.166		
6,100.00	6,015.03	5,625.00	5,625.00	25.97	112.76	24.40	-7,377.76	-676.82	6,617.51	6,482.32	135.19	48.951		
6,200.00	6,113.06	5,625.00	5,625.00	26.45	112.76	24.40	-7,377.76	-676.82	6,606.20	6,470.71	135.49	48.757		
6,300.00	6,211.09	5,625.00	5,625.00	26.94	112.76	24.40	-7,377.76	-676.82	6,596.40	6,460.63	135.77	48.586		
6,400.00	6,309.13	5,625.00	5,625.00	27.43	112.76	24.40	-7,377.76	-676.82	6,588.10	6,452.08	136.01	48.437		
6,500.00	6,407.16	5,625.00	5,625.00	27.92	112.76	24.40	-7,377.76	-676.82	6,581.30	6,445.07	136.23	48.310		
6,600.00	6,505.19	5,625.00	5,625.00	28.41	112.76	24.40	-7,377.76	-676.82	6,576.02	6,439.61	136.42	48.205		
6,664.73	6,568.65	5,625.00	5,625.00	28.73	112.76	24.40	-7,377.76	-676.82	6,573.41	6,436.89	136.52	48.149		
6,700.00	6,603.27	5,625.00	5,625.00	28.90	112.76	24.39	-7,377.76	-676.82	6,572.46	6,435.88	136.57	48.124		
6,740.02	6,642.65	5,625.00	5,625.00	29.08	112.76	24.38	-7,377.76	-676.82	6,572.08	6,435.46	136.62	48.104		
6,800.00	6,701.84	5,625.00	5,625.00	29.36	112.76	24.39	-7,377.76	-676.82	6,572.93	6,436.24	136.69	48.087		
6,900.00	6,800.94	5,625.00	5,625.00	29.78	112.76	24.43	-7,377.76	-676.82	6,578.09	6,441.33	136.76	48.099		
7,000.00	6,900.45	5,625.00	5,625.00	30.17	112.76	24.52	-7,377.76	-676.82	6,587.94	6,451.15	136.79	48.161		
7,100.00	7,000.24	5,625.00	5,625.00	30.53	112.76	24.64	-7,377.76	-676.82	6,602.43	6,465.65	136.78	48.272		
7,200.00	7,100.19	5,625.00	5,625.00	30.85	112.76	24.80	-7,377.76	-676.82	6,621.52	6,484.80	136.72	48.431		
7,233.81	7,134.00	5,625.00	5,625.00	30.95	112.76	-171.38	-7,377.76	-676.82	6,629.00	6,492.31	136.69	48.497		
7,300.00	7,200.19	5,625.00	5,625.00	31.12	112.76	-171.38	-7,377.76	-676.82	6,644.47	6,507.86	136.61	48.638		
7,333.81	7,234.00	5,625.00	5,625.00	31.21	112.76	-171.38	-7,377.76	-676.82	6,652.62	6,516.05	136.57	48.713		
7,350.00	7,250.18	5,625.00	5,625.00	31.26	112.76	8.90	-7,377.76	-676.82	6,656.35	6,519.81	136.55	48.748		
7,400.00	7,300.04	5,625.00	5,625.00	31.44	112.76	8.76	-7,377.76	-676.82	6,665.34	6,528.85	136.49	48.834		
7,450.00	7,349.39	5,625.00	5,625.00	31.66	112.76	8.69	-7,377.76	-676.82	6,670.42	6,533.99	136.43	48.891		
7,500.00	7,397.87	5,625.00	5,625.00	31.92	112.76	8.67	-7,377.76	-676.82	6,671.58	6,535.19	136.38	48.918		
7,550.00	7,445.09	5,625.00	5,625.00	32.22	112.76	8.71	-7,377.76	-676.82	6,668.79	6,532.46	136.33	48.916		
7,600.00	7,490.72	5,625.00	5,625.00	32.55	112.76	8.81	-7,377.76	-676.82	6,662.09	6,525.81	136.28	48.884		
7,650.00	7,534.38	5,625.00	5,625.00	32.92	112.76	8.98	-7,377.76	-676.82	6,651.51	6,515.28	136.24	48.823		
7,700.00	7,575.77	5,625.00	5,625.00	33.32	112.76	9.22	-7,377.76	-676.82	6,637.11	6,500.93	136.19	48.735		
7,750.00	7,614.55	5,625.00	5,625.00	33.75	112.76	9.54	-7,377.76	-676.82	6,618.98	6,482.84	136.14	48.619		
7,800.00	7,650.43	5,625.00	5,625.00	34.22	112.76	9.95	-7,377.76	-676.82	6,597.22	6,461.13	136.09	48.477		
7,850.00	7,683.15	5,625.00	5,625.00	34.71	112.76	10.46	-7,377.76	-676.82	6,571.97	6,435.93	136.04	48.310		
7,900.00	7,712.45	5,625.00	5,625.00	35.23	112.76	11.12	-7,377.76	-676.82	6,543.37	6,407.39	135.99	48.118		
7,950.00	7,738.11	5,625.00	5,625.00	35.78	112.76	11.94	-7,377.76	-676.82	6,511.61	6,375.68	135.94	47.902		
8,000.00	7,759.93	5,625.00	5,625.00	36.35	112.76	12.98	-7,377.76	-676.82	6,476.88	6,340.99	135.89	47.664		
8,050.00	7,777.75	5,625.00	5,625.00	36.93	112.76	14.32	-7,377.76	-676.82	6,439.40	6,303.56	135.84	47.404		
8,100.00	7,791.43	5,625.00	5,625.00	37.53	112.76	16.07	-7,377.76	-676.82	6,399.40	6,263.60	135.80	47.125		
8,150.00	7,800.87	5,625.00	5,625.00	38.14	112.76	18.41	-7,377.76	-676.82	6,357.15	6,221.40	135.76	46.827		
8,200.00	7,806.00	5,625.00	5,625.00	38.76	112.76	21.67	-7,377.76	-676.82	6,312.93	6,177.21	135.73	46.512		
8,233.89	7,807.00	5,625.00	5,625.00	39.18	112.76	24.65	-7,377.76	-676.82	6,281.99	6,146.27	135.71	46.289		
8,300.00	7,807.00	5,625.00	5,625.00	40.00	112.76	24.65	-7,377.76	-676.82	6,220.99	6,085.31	135.68	45.850		
8,400.00	7,807.00	5,625.00	5,625.00	41.29	112.76	24.65	-7,377.76	-676.82	6,128.93	5,993.30	135.63	45.188		
8,500.00	7,806.99	5,625.00	5,625.00	42.60	112.76	24.65	-7,377.76	-676.82	6,037.12	5,901.53	135.58	44.527		
8,600.00	7,806.99	5,625.00	5,625.00	43.95	112.76	24.65	-7,377.76	-676.82	5,945.57	5,810.03	135.53	43.868		
8,700.00	7,806.99	5,625.00	5,625.00	45.33	112.76	24.65	-7,377.76	-676.82	5,854.29	5,718.81	135.49	43.210		
8,800.00	7,806.99	5,625.00	5,625.00	46.74	112.76	24.65	-7,377.76	-676.82	5,763.31	5,627.88	135.44	42.554		

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-20-3N
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-20-3N	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											
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning					
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)						
8,900.00	7,806.98	5,625.00	5,625.00	48.17	112.76	24.65	-7,377.76	-676.82	5,672.63	5,537.25	135.39	41.899					
9,000.00	7,806.98	5,625.00	5,625.00	49.62	112.76	24.65	-7,377.76	-676.82	5,582.27	5,446.93	135.34	41.247					
9,100.00	7,806.98	5,625.00	5,625.00	51.09	112.76	24.65	-7,377.76	-676.82	5,492.25	5,356.96	135.29	40.596					
9,200.00	7,806.98	5,625.00	5,625.00	52.59	112.76	24.65	-7,377.76	-676.82	5,402.57	5,267.33	135.24	39.948					
9,300.00	7,806.97	5,625.00	5,625.00	54.09	112.76	24.65	-7,377.76	-676.82	5,313.27	5,178.08	135.19	39.303					
9,400.00	7,806.97	5,625.00	5,625.00	55.62	112.76	24.65	-7,377.76	-676.82	5,224.35	5,089.21	135.14	38.660					
9,500.00	7,806.97	5,625.00	5,625.00	57.16	112.76	24.65	-7,377.76	-676.82	5,135.83	5,000.75	135.08	38.020					
9,600.00	7,806.97	5,625.00	5,625.00	58.71	112.76	24.65	-7,377.76	-676.82	5,047.75	4,912.72	135.03	37.383					
9,700.00	7,806.96	5,625.00	5,625.00	60.27	112.76	24.65	-7,377.76	-676.82	4,960.12	4,825.15	134.97	36.749					
9,800.00	7,806.96	5,625.00	5,625.00	61.84	112.76	24.65	-7,377.76	-676.82	4,872.97	4,738.05	134.91	36.119					
9,900.00	7,806.96	5,625.00	5,625.00	63.43	112.76	24.65	-7,377.76	-676.82	4,786.31	4,651.46	134.85	35.493					
10,000.00	7,806.96	5,625.00	5,625.00	65.02	112.76	24.65	-7,377.76	-676.82	4,700.19	4,565.41	134.79	34.871					
10,100.00	7,806.95	5,625.00	5,625.00	66.63	112.76	24.65	-7,377.76	-676.82	4,614.63	4,479.91	134.72	34.254					
10,200.00	7,806.95	5,625.00	5,625.00	68.24	112.76	24.65	-7,377.76	-676.82	4,529.66	4,395.01	134.64	33.642					
10,300.00	7,806.95	5,625.00	5,625.00	69.86	112.76	24.65	-7,377.76	-676.82	4,445.31	4,310.75	134.57	33.035					
10,400.00	7,806.95	5,625.00	5,625.00	71.49	112.76	24.65	-7,377.76	-676.82	4,361.63	4,227.15	134.48	32.433					
10,500.00	7,806.94	5,625.00	5,625.00	73.12	112.76	24.65	-7,377.76	-676.82	4,278.65	4,144.26	134.39	31.838					
10,600.00	7,806.94	5,625.00	5,625.00	74.76	112.76	24.65	-7,377.76	-676.82	4,196.41	4,062.12	134.29	31.250					
10,700.00	7,806.94	5,625.00	5,625.00	76.41	112.76	24.65	-7,377.76	-676.82	4,114.95	3,980.78	134.17	30.669					
10,800.00	7,806.94	5,625.00	5,625.00	78.06	112.76	24.65	-7,377.76	-676.82	4,034.33	3,900.28	134.05	30.095					
10,900.00	7,806.93	5,625.00	5,625.00	79.72	112.76	24.65	-7,377.76	-676.82	3,954.60	3,820.68	133.92	29.530					
11,000.00	7,806.93	5,625.00	5,625.00	81.38	112.76	24.65	-7,377.76	-676.82	3,875.80	3,742.03	133.77	28.974					
11,100.00	7,806.93	5,625.00	5,625.00	83.05	112.76	24.65	-7,377.76	-676.82	3,798.01	3,664.40	133.60	28.428					
11,200.00	7,806.93	5,625.00	5,625.00	84.72	112.76	24.65	-7,377.76	-676.82	3,721.27	3,587.85	133.42	27.892					
11,300.00	7,806.92	5,625.00	5,625.00	86.39	112.76	24.65	-7,377.76	-676.82	3,645.66	3,512.45	133.21	27.367					
11,400.00	7,806.92	5,625.00	5,625.00	88.07	112.76	24.65	-7,377.76	-676.82	3,571.25	3,438.27	132.99	26.854					
11,500.00	7,806.92	5,625.00	5,625.00	89.75	112.76	24.65	-7,377.76	-676.82	3,498.12	3,365.39	132.73	26.355					
11,600.00	7,806.92	5,625.00	5,625.00	91.44	112.76	24.65	-7,377.76	-676.82	3,426.35	3,293.90	132.45	25.869					
11,700.00	7,806.91	5,625.00	5,625.00	93.13	112.76	24.65	-7,377.76	-676.82	3,356.02	3,223.88	132.14	25.398					
11,800.00	7,806.91	5,625.00	5,625.00	94.82	112.76	24.65	-7,377.76	-676.82	3,287.23	3,155.44	131.79	24.944					
11,900.00	7,806.91	5,625.00	5,625.00	96.52	112.76	24.65	-7,377.76	-676.82	3,220.07	3,088.67	131.40	24.506					
12,000.00	7,806.91	5,625.00	5,625.00	98.21	112.76	24.65	-7,377.76	-676.82	3,154.66	3,023.69	130.97	24.086					
12,100.00	7,806.90	5,625.00	5,625.00	99.91	112.76	24.65	-7,377.76	-676.82	3,091.10	2,960.60	130.50	23.686					
12,200.00	7,806.90	5,625.00	5,625.00	101.62	112.76	24.65	-7,377.76	-676.82	3,029.50	2,899.52	129.98	23.307					
12,300.00	7,806.90	5,625.00	5,625.00	103.32	112.76	24.65	-7,377.76	-676.82	2,970.00	2,840.58	129.41	22.949					
12,400.00	7,806.90	5,625.00	5,625.00	105.03	112.76	24.65	-7,377.76	-676.82	2,912.71	2,783.91	128.80	22.615					
12,500.00	7,806.89	5,625.00	5,625.00	106.74	112.76	24.65	-7,377.76	-676.82	2,857.78	2,729.65	128.13	22.304					
12,600.00	7,806.89	5,625.00	5,625.00	108.45	112.76	24.65	-7,377.76	-676.82	2,805.33	2,677.93	127.41	22.019					
12,700.00	7,806.89	5,625.00	5,625.00	110.17	112.76	24.65	-7,377.76	-676.82	2,755.52	2,628.88	126.64	21.759					
12,800.00	7,806.89	5,625.00	5,625.00	111.88	112.76	24.65	-7,377.76	-676.82	2,708.49	2,582.66	125.83	21.526					
12,900.00	7,806.88	5,625.00	5,625.00	113.60	112.76	24.65	-7,377.76	-676.82	2,664.38	2,539.40	124.98	21.319					
13,000.00	7,806.88	5,625.00	5,625.00	115.32	112.76	24.65	-7,377.76	-676.82	2,623.34	2,499.23	124.11	21.138					
13,100.00	7,806.88	5,625.00	5,625.00	117.04	112.76	24.65	-7,377.76	-676.82	2,585.52	2,462.30	123.22	20.983					
13,200.00	7,806.88	5,625.00	5,625.00	118.76	112.76	24.65	-7,377.76	-676.82	2,551.06	2,428.71	122.35	20.851					
13,300.00	7,806.87	5,625.00	5,625.00	120.48	112.76	24.65	-7,377.76	-676.82	2,520.10	2,398.59	121.51	20.740					
13,400.00	7,806.87	5,625.00	5,625.00	122.21	112.76	24.65	-7,377.76	-676.82	2,492.77	2,372.04	120.74	20.646					
13,500.00	7,806.87	5,625.00	5,625.00	123.94	112.76	24.65	-7,377.76	-676.82	2,469.19	2,349.13	120.06	20.566					
13,600.00	7,806.87	5,625.00	5,625.00	125.66	112.76	24.65	-7,377.76	-676.82	2,449.47	2,329.95	119.52	20.493					
13,700.00	7,806.86	5,625.00	5,625.00	127.39	112.76	24.65	-7,377.76	-676.82	2,433.71	2,314.54	119.16	20.423					
13,800.00	7,806.86	5,625.00	5,625.00	129.12	112.76	24.65	-7,377.76	-676.82	2,421.97	2,302.95	119.02	20.350					
13,900.00	7,806.86	5,625.00	5,625.00	130.85	112.76	24.65	-7,377.76	-676.82	2,414.32	2,295.20	119.12	20.268					
14,000.00	7,806.86	5,625.00	5,625.00	132.59	112.76	24.65	-7,377.76	-676.82	2,410.80	2,291.31	119.49	20.176					

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-20-3N
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-20-3N	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		
14,034.98	7,806.86	5,625.00	5,625.00	133.19	112.76	24.65	-7,377.76	-676.82	2,410.54	2,290.86	119.69	20.141	CC, ES	
14,100.00	7,806.85	5,625.00	5,625.00	134.32	112.76	24.65	-7,377.76	-676.82	2,411.42	2,291.28	120.14	20.072		
14,200.00	7,806.85	5,625.00	5,625.00	136.06	112.76	24.65	-7,377.76	-676.82	2,416.18	2,295.12	121.06	19.958		
14,300.00	7,806.85	5,625.00	5,625.00	137.79	112.76	24.65	-7,377.76	-676.82	2,425.07	2,302.83	122.24	19.839		
14,400.00	7,806.85	5,625.00	5,625.00	139.53	112.76	24.65	-7,377.76	-676.82	2,438.02	2,314.39	123.63	19.720		
14,500.00	7,806.84	5,625.00	5,625.00	141.27	112.76	24.65	-7,377.76	-676.82	2,454.98	2,329.78	125.21	19.608		
14,600.00	7,806.84	5,625.00	5,625.00	143.00	112.76	24.65	-7,377.76	-676.82	2,475.87	2,348.96	126.92	19.508		
14,700.00	7,806.84	5,625.00	5,625.00	144.74	112.76	24.65	-7,377.76	-676.82	2,500.59	2,371.87	128.72	19.427		
14,800.00	7,806.84	5,625.00	5,625.00	146.48	112.76	24.65	-7,377.76	-676.82	2,529.02	2,398.45	130.57	19.369		
14,900.00	7,806.83	5,625.00	5,625.00	148.22	112.76	24.65	-7,377.76	-676.82	2,561.05	2,428.61	132.44	19.337		
15,000.00	7,806.83	5,625.00	5,625.00	149.97	112.76	24.65	-7,377.76	-676.82	2,596.53	2,462.24	134.29	19.335	SF	
15,100.00	7,806.83	5,625.00	5,625.00	151.71	112.76	24.65	-7,377.76	-676.82	2,635.33	2,499.23	136.10	19.364		
15,200.00	7,806.83	5,625.00	5,625.00	153.45	112.76	24.65	-7,377.76	-676.82	2,677.31	2,539.47	137.84	19.423		
15,300.00	7,806.82	5,625.00	5,625.00	155.19	112.76	24.65	-7,377.76	-676.82	2,722.31	2,582.80	139.51	19.513		
15,400.00	7,806.82	5,625.00	5,625.00	156.94	112.76	24.65	-7,377.76	-676.82	2,770.19	2,629.10	141.09	19.634		
15,500.00	7,806.82	5,625.00	5,625.00	158.68	112.76	24.65	-7,377.76	-676.82	2,820.81	2,678.23	142.58	19.784		
15,600.00	7,806.82	5,625.00	5,625.00	160.43	112.76	24.65	-7,377.76	-676.82	2,874.02	2,730.04	143.98	19.961		
15,700.00	7,806.81	5,625.00	5,625.00	162.18	112.76	24.65	-7,377.76	-676.82	2,929.67	2,784.40	145.28	20.166		
15,800.00	7,806.81	5,625.00	5,625.00	163.92	112.76	24.65	-7,377.76	-676.82	2,987.64	2,841.16	146.48	20.396		
15,900.00	7,806.81	5,625.00	5,625.00	165.67	112.76	24.65	-7,377.76	-676.82	3,047.78	2,900.19	147.59	20.650		
16,000.00	7,806.81	5,625.00	5,625.00	167.42	112.76	24.65	-7,377.76	-676.82	3,109.98	2,961.37	148.62	20.926		
16,100.00	7,806.80	5,625.00	5,625.00	169.17	112.76	24.65	-7,377.76	-676.82	3,174.11	3,024.56	149.56	21.223		
16,200.00	7,806.80	5,625.00	5,625.00	170.91	112.76	24.65	-7,377.76	-676.82	3,240.06	3,089.65	150.42	21.541		
16,300.00	7,806.80	5,625.00	5,625.00	172.66	112.76	24.65	-7,377.76	-676.82	3,307.72	3,156.52	151.20	21.876		
16,400.00	7,806.80	5,625.00	5,625.00	174.41	112.76	24.65	-7,377.76	-676.82	3,376.98	3,225.06	151.92	22.229		
16,500.00	7,806.79	5,625.00	5,625.00	176.16	112.76	24.65	-7,377.76	-676.82	3,447.75	3,295.19	152.57	22.598		
16,600.00	7,806.79	5,625.00	5,625.00	177.92	112.76	24.65	-7,377.76	-676.82	3,519.95	3,366.78	153.16	22.982		
16,700.00	7,806.79	5,625.00	5,625.00	179.67	112.76	24.65	-7,377.76	-676.82	3,593.47	3,439.77	153.70	23.380		
16,800.00	7,806.79	5,625.00	5,625.00	181.42	112.76	24.65	-7,377.76	-676.82	3,668.24	3,514.06	154.19	23.791		
16,900.00	7,806.78	5,625.00	5,625.00	183.17	112.76	24.65	-7,377.76	-676.82	3,744.20	3,589.57	154.63	24.214		
17,000.00	7,806.78	5,625.00	5,625.00	184.92	112.76	24.65	-7,377.76	-676.82	3,821.26	3,666.23	155.03	24.649		
17,100.00	7,806.78	5,625.00	5,625.00	186.68	112.76	24.65	-7,377.76	-676.82	3,899.36	3,743.98	155.39	25.094		
17,200.00	7,806.78	5,625.00	5,625.00	188.43	112.76	24.65	-7,377.76	-676.82	3,978.45	3,822.73	155.71	25.550		
17,300.00	7,806.77	5,625.00	5,625.00	190.18	112.76	24.65	-7,377.76	-676.82	4,058.45	3,902.44	156.01	26.014		
17,400.00	7,806.77	5,625.00	5,625.00	191.94	112.76	24.65	-7,377.76	-676.82	4,139.33	3,983.05	156.28	26.487		
17,500.00	7,806.77	5,625.00	5,625.00	193.69	112.76	24.65	-7,377.76	-676.82	4,221.02	4,064.51	156.52	26.969		
17,600.00	7,806.77	5,625.00	5,625.00	195.45	112.76	24.65	-7,377.76	-676.82	4,303.49	4,146.76	156.73	27.457		
17,700.00	7,806.76	5,625.00	5,625.00	197.20	112.76	24.65	-7,377.76	-676.82	4,386.69	4,229.76	156.93	27.953		
17,800.00	7,806.76	5,625.00	5,625.00	198.96	112.76	24.65	-7,377.76	-676.82	4,470.58	4,313.47	157.11	28.456		
17,877.44	7,807.00	5,625.00	5,625.00	200.32	112.76	24.65	-7,377.76	-676.82	4,536.12	4,378.89	157.23	28.850		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	164.47	-8,175.80	2,271.98	8,485.77					
100.00	100.00	47.00	47.00	0.13	0.56	164.47	-8,175.80	2,271.98	8,485.61	8,484.91	0.70	N/A		
200.00	200.00	147.00	147.00	0.49	2.27	164.47	-8,175.80	2,271.98	8,485.61	8,482.84	2.77	3,066.433		
300.00	300.00	247.00	247.00	0.85	4.46	164.47	-8,175.80	2,271.98	8,485.61	8,480.29	5.32	1,596.223		
400.00	400.00	347.00	347.00	1.21	6.53	164.47	-8,175.80	2,271.98	8,485.61	8,477.87	7.74	1,096.918		
500.00	500.00	447.00	447.00	1.57	8.56	164.47	-8,175.80	2,271.98	8,485.61	8,475.48	10.13	837.642		
600.00	600.00	547.00	547.00	1.93	10.59	164.47	-8,175.80	2,271.98	8,485.61	8,473.09	12.51	678.039		
700.00	700.00	647.00	647.00	2.29	12.61	164.47	-8,175.80	2,271.98	8,485.61	8,470.71	14.89	569.713		
800.00	800.00	747.00	747.00	2.64	14.63	164.47	-8,175.80	2,271.98	8,485.61	8,468.34	17.27	491.313		
900.00	900.00	847.00	847.00	3.00	16.64	164.47	-8,175.80	2,271.98	8,485.61	8,465.96	19.65	431.920		
1,000.00	1,000.00	947.00	947.00	3.36	18.66	164.47	-8,175.80	2,271.98	8,485.61	8,463.59	22.02	385.359		
1,100.00	1,100.00	1,047.00	1,047.00	3.72	20.67	164.47	-8,175.80	2,271.98	8,485.61	8,461.21	24.39	347.872		
1,200.00	1,200.00	1,147.00	1,147.00	4.08	22.69	164.47	-8,175.80	2,271.98	8,485.61	8,458.84	26.77	317.039		
1,300.00	1,300.00	1,247.00	1,247.00	4.44	24.70	164.47	-8,175.80	2,271.98	8,485.61	8,456.47	29.14	291.232		
1,400.00	1,400.00	1,347.00	1,347.00	4.79	26.71	164.47	-8,175.80	2,271.98	8,485.61	8,454.10	31.51	269.313		
1,500.00	1,499.98	1,446.98	1,446.98	5.14	28.73	0.71	-8,175.80	2,271.98	8,483.86	8,450.00	33.86	250.545		
1,600.00	1,599.84	1,546.84	1,546.84	5.46	30.74	0.71	-8,175.80	2,271.98	8,478.63	8,442.43	36.20	234.223		
1,700.00	1,699.45	1,646.45	1,646.45	5.80	32.74	0.72	-8,175.80	2,271.98	8,469.91	8,431.38	38.53	219.799		
1,800.00	1,798.70	1,745.70	1,745.70	6.14	34.74	0.72	-8,175.80	2,271.98	8,457.73	8,416.86	40.87	206.960		
1,900.00	1,897.47	1,844.47	1,844.47	6.49	36.72	0.73	-8,175.80	2,271.98	8,442.09	8,398.90	43.19	195.461		
1,969.08	1,965.35	1,912.35	1,912.35	6.75	38.09	0.73	-8,175.80	2,271.98	8,429.27	8,384.48	44.79	188.190		
2,000.00	1,995.66	1,942.66	1,942.66	6.86	38.70	0.73	-8,175.80	2,271.98	8,423.17	8,377.67	45.51	185.098		
2,100.00	2,093.69	2,040.69	2,040.69	7.25	40.67	0.73	-8,175.80	2,271.98	8,403.44	8,355.62	47.82	175.743		
2,200.00	2,191.72	2,138.72	2,138.72	7.65	42.64	0.74	-8,175.80	2,271.98	8,383.71	8,333.58	50.13	167.237		
2,300.00	2,289.76	2,236.76	2,236.76	8.07	44.62	0.74	-8,175.80	2,271.98	8,363.97	8,311.53	52.45	159.472		
2,400.00	2,387.79	2,334.79	2,334.79	8.49	46.59	0.74	-8,175.80	2,271.98	8,344.24	8,289.47	54.77	152.356		
2,500.00	2,485.82	2,432.82	2,432.82	8.91	48.56	0.74	-8,175.80	2,271.98	8,324.51	8,267.42	57.09	145.812		
2,600.00	2,583.86	2,530.86	2,530.86	9.35	50.53	0.74	-8,175.80	2,271.98	8,304.78	8,245.36	59.42	139.775		
2,700.00	2,681.89	2,628.89	2,628.89	9.79	52.50	0.74	-8,175.80	2,271.98	8,285.04	8,223.30	61.74	134.188		
2,800.00	2,779.92	2,726.92	2,726.92	10.24	54.48	0.75	-8,175.80	2,271.98	8,265.31	8,201.24	64.07	129.003		
2,900.00	2,877.96	2,824.96	2,824.96	10.69	56.45	0.75	-8,175.80	2,271.98	8,245.58	8,179.18	66.40	124.179		
3,000.00	2,975.99	2,922.99	2,922.99	11.14	58.42	0.75	-8,175.80	2,271.98	8,225.84	8,157.11	68.73	119.679		
3,100.00	3,074.02	3,021.02	3,021.02	11.60	60.39	0.75	-8,175.80	2,271.98	8,206.11	8,135.05	71.07	115.473		
3,200.00	3,172.06	3,119.06	3,119.06	12.06	62.36	0.75	-8,175.80	2,271.98	8,186.38	8,112.98	73.40	111.532		
3,300.00	3,270.09	3,217.09	3,217.09	12.52	64.33	0.75	-8,175.80	2,271.98	8,166.65	8,090.91	75.73	107.833		
3,400.00	3,368.12	3,315.12	3,315.12	12.98	66.31	0.76	-8,175.80	2,271.98	8,146.91	8,068.84	78.07	104.354		
3,500.00	3,466.16	3,413.16	3,413.16	13.45	68.28	0.76	-8,175.80	2,271.98	8,127.18	8,046.77	80.41	101.076		
3,600.00	3,564.19	3,511.19	3,511.19	13.92	70.25	0.76	-8,175.80	2,271.98	8,107.45	8,024.70	82.74	97.982		
3,700.00	3,662.23	3,609.23	3,609.23	14.39	72.22	0.76	-8,175.80	2,271.98	8,087.72	8,002.63	85.08	95.057		
3,800.00	3,760.26	3,707.26	3,707.26	14.86	74.19	0.76	-8,175.80	2,271.98	8,067.98	7,980.56	87.42	92.288		
3,900.00	3,858.29	3,805.29	3,805.29	15.34	76.16	0.77	-8,175.80	2,271.98	8,048.25	7,958.49	89.76	89.662		
4,000.00	3,956.33	3,903.33	3,903.33	15.81	78.14	0.77	-8,175.80	2,271.98	8,028.52	7,936.42	92.10	87.170		
4,100.00	4,054.36	4,001.36	4,001.36	16.29	80.11	0.77	-8,175.80	2,271.98	8,008.78	7,914.34	94.44	84.801		
4,200.00	4,152.39	4,100.61	4,099.39	16.77	82.10	0.77	-8,175.80	2,271.98	7,989.05	7,892.24	96.81	82.525		
4,300.00	4,250.43	4,202.57	4,197.43	17.25	84.15	0.77	-8,175.80	2,271.98	7,969.32	7,870.09	99.23	80.312		
4,400.00	4,348.46	4,304.54	4,295.46	17.73	86.21	0.78	-8,175.80	2,271.98	7,949.59	7,847.94	101.65	78.205		
4,500.00	4,446.49	4,406.51	4,393.49	18.21	88.26	0.78	-8,175.80	2,271.98	7,929.85	7,825.78	104.07	76.196		
4,600.00	4,544.53	4,508.47	4,491.53	18.69	90.31	0.78	-8,175.80	2,271.98	7,910.12	7,803.63	106.49	74.278		
4,700.00	4,642.56	4,589.56	4,589.56	19.17	91.94	0.78	-8,175.80	2,271.98	7,890.39	7,781.89	108.50	72.725		
4,800.00	4,740.59	4,687.59	4,687.59	19.65	93.91	0.78	-8,175.80	2,271.98	7,870.66	7,759.82	110.84	71.009		
4,900.00	4,838.63	4,785.63	4,785.63	20.13	95.88	0.79	-8,175.80	2,271.98	7,850.92	7,737.74	113.18	69.364		
5,000.00	4,936.66	4,883.66	4,883.66	20.62	97.85	0.79	-8,175.80	2,271.98	7,831.19	7,715.66	115.53	67.786		

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-20-3N
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-20-3N	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	5,034.69	4,981.69	4,981.69	21.10	99.82	0.79	-8,175.80	2,271.98	7,811.46	7,693.59	117.87	66.270		
5,200.00	5,132.73	5,079.73	5,079.73	21.59	101.79	0.79	-8,175.80	2,271.98	7,791.73	7,671.51	120.22	64.814		
5,300.00	5,230.76	5,177.76	5,177.76	22.07	103.77	0.79	-8,175.80	2,271.98	7,771.99	7,649.43	122.56	63.413		
5,400.00	5,328.79	5,275.79	5,275.79	22.56	105.74	0.80	-8,175.80	2,271.98	7,752.26	7,627.35	124.91	62.064		
5,500.00	5,426.83	5,373.83	5,373.83	23.04	107.71	0.80	-8,175.80	2,271.98	7,732.53	7,605.28	127.25	60.765		
5,600.00	5,524.86	5,471.86	5,471.86	23.53	109.68	0.80	-8,175.80	2,271.98	7,712.80	7,583.20	129.60	59.513		
5,700.00	5,622.89	5,569.89	5,569.89	24.02	111.65	0.80	-8,175.80	2,271.98	7,693.06	7,561.12	131.94	58.305		
5,800.00	5,720.93	5,667.93	5,667.93	24.50	113.62	0.80	-8,175.80	2,271.98	7,673.33	7,539.04	134.29	57.140		
5,900.00	5,818.96	5,765.96	5,765.96	24.99	115.60	0.81	-8,175.80	2,271.98	7,653.60	7,516.96	136.64	56.014		
6,000.00	5,916.99	5,863.99	5,863.99	25.48	117.57	0.81	-8,175.80	2,271.98	7,633.87	7,494.88	138.98	54.926		
6,100.00	6,015.03	5,962.03	5,962.03	25.97	119.54	0.81	-8,175.80	2,271.98	7,614.13	7,472.80	141.33	53.875		
6,200.00	6,113.06	6,060.06	6,060.06	26.45	121.51	0.81	-8,175.80	2,271.98	7,594.40	7,450.72	143.68	52.857		
6,300.00	6,211.09	6,158.09	6,158.09	26.94	123.48	0.81	-8,175.80	2,271.98	7,574.67	7,428.64	146.02	51.873		
6,400.00	6,309.13	6,256.13	6,256.13	27.43	125.45	0.82	-8,175.80	2,271.98	7,554.94	7,406.56	148.37	50.919		
6,500.00	6,407.16	6,354.16	6,354.16	27.92	127.42	0.82	-8,175.80	2,271.98	7,535.20	7,384.48	150.72	49.995		
6,600.00	6,505.19	6,452.19	6,452.19	28.41	129.40	0.82	-8,175.80	2,271.98	7,515.47	7,362.40	153.07	49.099		
6,664.73	6,568.65	6,515.65	6,515.65	28.73	130.67	0.82	-8,175.80	2,271.98	7,502.70	7,348.11	154.59	48.534		
6,700.00	6,603.27	6,550.27	6,550.27	28.90	131.37	0.82	-8,175.80	2,271.98	7,495.95	7,340.54	155.41	48.232		
6,800.00	6,701.84	6,648.84	6,648.84	29.36	133.35	0.82	-8,175.80	2,271.98	7,479.15	7,321.38	157.77	47.406		
6,900.00	6,800.94	6,747.94	6,747.94	29.78	135.34	0.81	-8,175.80	2,271.98	7,465.79	7,305.66	160.13	46.624		
7,000.00	6,900.45	6,847.45	6,847.45	30.17	137.34	0.81	-8,175.80	2,271.98	7,455.90	7,293.41	162.49	45.886		
7,100.00	7,000.24	6,947.24	6,947.24	30.53	139.35	0.81	-8,175.80	2,271.98	7,449.49	7,284.64	164.85	45.190		
7,200.00	7,100.19	7,047.19	7,047.19	30.85	141.36	0.81	-8,175.80	2,271.98	7,446.57	7,279.36	167.20	44.536		
7,233.81	7,134.00	7,081.00	7,081.00	30.95	142.04	164.57	-8,175.80	2,271.98	7,446.37	7,278.37	167.99	44.325		
7,300.00	7,200.19	7,147.19	7,147.19	31.12	143.37	164.57	-8,175.80	2,271.98	7,446.37	7,276.83	169.53	43.922		
7,333.81	7,234.00	7,181.00	7,181.00	31.21	144.05	164.57	-8,175.80	2,271.98	7,446.37	7,276.04	170.32	43.719		
7,350.00	7,250.18	7,202.82	7,197.18	31.26	144.49	-15.10	-8,175.80	2,271.98	7,446.15	7,275.33	170.81	43.592		
7,400.00	7,300.04	7,247.04	7,247.04	31.44	145.38	-15.19	-8,175.80	2,271.98	7,442.68	7,270.80	171.88	43.301		
7,450.00	7,349.39	7,303.61	7,296.39	31.66	146.52	-15.41	-8,175.80	2,271.98	7,435.03	7,261.83	173.21	42.926		
7,500.00	7,397.87	7,344.87	7,344.87	31.92	147.35	-15.77	-8,175.80	2,271.98	7,423.26	7,249.04	174.23	42.607		
7,550.00	7,445.09	7,407.91	7,392.09	32.22	148.62	-16.26	-8,175.80	2,271.98	7,407.46	7,231.77	175.69	42.162		
7,600.00	7,490.72	7,437.72	7,437.72	32.55	149.21	-16.92	-8,175.80	2,271.98	7,387.75	7,211.27	176.48	41.861		
7,650.00	7,534.38	7,481.38	7,481.38	32.92	150.09	-17.77	-8,175.80	2,271.98	7,364.29	7,186.73	177.56	41.476		
7,700.00	7,575.77	7,522.77	7,522.77	33.32	150.93	-18.84	-8,175.80	2,271.98	7,337.24	7,158.67	178.57	41.088		
7,750.00	7,614.55	7,561.55	7,561.55	33.75	151.70	-20.21	-8,175.80	2,271.98	7,306.83	7,127.30	179.53	40.699		
7,800.00	7,650.43	7,602.57	7,597.43	34.22	152.53	-21.93	-8,175.80	2,271.98	7,273.29	7,092.77	180.53	40.289		
7,850.00	7,683.15	7,630.15	7,630.15	34.71	153.08	-24.12	-8,175.80	2,271.98	7,236.88	7,055.64	181.24	39.930		
7,900.00	7,712.45	7,659.45	7,659.45	35.23	153.67	-26.94	-8,175.80	2,271.98	7,197.87	7,015.90	181.97	39.555		
7,950.00	7,738.11	7,685.11	7,685.11	35.78	154.19	-30.62	-8,175.80	2,271.98	7,156.57	6,973.95	182.62	39.189		
8,000.00	7,759.93	7,706.93	7,706.93	36.35	154.63	-35.51	-8,175.80	2,271.98	7,113.29	6,930.12	183.17	38.834		
8,050.00	7,777.75	7,724.75	7,724.75	36.93	154.99	-42.12	-8,175.80	2,271.98	7,068.37	6,884.74	183.63	38.493		
8,100.00	7,791.43	7,738.43	7,738.43	37.53	155.26	-51.13	-8,175.80	2,271.98	7,022.15	6,838.17	183.98	38.167		
8,150.00	7,800.87	7,747.87	7,747.87	38.14	155.45	-63.25	-8,175.80	2,271.98	6,974.99	6,790.74	184.24	37.858		
8,200.00	7,806.00	7,753.00	7,753.00	38.76	155.55	-78.54	-8,175.80	2,271.98	6,927.24	6,742.84	184.40	37.566		
8,233.89	7,807.00	7,754.00	7,754.00	39.18	155.58	-90.00	-8,175.80	2,271.98	6,894.72	6,710.28	184.45	37.380		
8,300.00	7,807.00	7,754.00	7,754.00	40.00	155.58	-90.00	-8,175.80	2,271.98	6,831.31	6,646.81	184.51	37.025		
8,400.00	7,807.00	7,754.00	7,754.00	41.29	155.58	-90.00	-8,175.80	2,271.98	6,735.48	6,550.88	184.60	36.486		
8,500.00	7,806.99	7,753.99	7,753.99	42.60	155.57	-90.00	-8,175.80	2,271.98	6,639.78	6,455.06	184.72	35.946		
8,600.00	7,806.99	7,753.99	7,753.99	43.95	155.57	-90.00	-8,175.80	2,271.98	6,544.20	6,359.35	184.85	35.403		
8,700.00	7,806.99	7,753.99	7,753.99	45.33	155.57	-90.00	-8,175.80	2,271.98	6,448.75	6,263.75	185.00	34.858		
8,800.00	7,806.99	7,753.99	7,753.99	46.74	155.57	-90.00	-8,175.80	2,271.98	6,353.45	6,168.28	185.17	34.311		
8,900.00	7,806.98	7,753.98	7,753.98	48.17	155.57	-90.00	-8,175.80	2,271.98	6,258.29	6,072.93	185.37	33.761		

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-20-3N
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-20-3N	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		
9,000.00	7,806.98	7,753.98	7,753.98	49.62	155.57	-90.00	-8,175.80	2,271.98	6,163.29	5,977.70	185.59	33.210		
9,100.00	7,806.98	7,753.98	7,753.98	51.09	155.57	-90.00	-8,175.80	2,271.98	6,068.45	5,882.62	185.83	32.656		
9,200.00	7,806.98	7,753.98	7,753.98	52.59	155.57	-90.00	-8,175.80	2,271.98	5,973.77	5,787.68	186.10	32.100		
9,300.00	7,806.97	7,753.97	7,753.97	54.09	155.57	-90.00	-8,175.80	2,271.98	5,879.27	5,692.88	186.39	31.542		
9,400.00	7,806.97	7,753.97	7,753.97	55.62	155.57	-90.00	-8,175.80	2,271.98	5,784.96	5,598.24	186.72	30.982		
9,500.00	7,806.97	7,753.97	7,753.97	57.16	155.57	-90.00	-8,175.80	2,271.98	5,690.84	5,503.77	187.07	30.420		
9,600.00	7,806.97	7,753.97	7,753.97	58.71	155.57	-90.00	-8,175.80	2,271.98	5,596.93	5,409.46	187.46	29.856		
9,700.00	7,806.96	7,753.96	7,753.96	60.27	155.57	-90.00	-8,175.80	2,271.98	5,503.22	5,315.34	187.89	29.290		
9,800.00	7,806.96	7,753.96	7,753.96	61.84	155.57	-90.00	-8,175.80	2,271.98	5,409.75	5,221.40	188.35	28.722		
9,900.00	7,806.96	7,753.96	7,753.96	63.43	155.57	-90.00	-8,175.80	2,271.98	5,316.51	5,127.66	188.85	28.152		
10,000.00	7,806.96	7,753.96	7,753.96	65.02	155.57	-90.00	-8,175.80	2,271.98	5,223.52	5,034.14	189.39	27.581		
10,100.00	7,806.95	7,753.95	7,753.95	66.63	155.57	-90.00	-8,175.80	2,271.98	5,130.80	4,940.83	189.97	27.008		
10,200.00	7,806.95	7,753.95	7,753.95	68.24	155.57	-90.00	-8,175.80	2,271.98	5,038.35	4,847.76	190.60	26.435		
10,300.00	7,806.95	7,753.95	7,753.95	69.86	155.57	-90.00	-8,175.80	2,271.98	4,946.20	4,754.93	191.27	25.859		
10,400.00	7,806.95	7,753.95	7,753.95	71.49	155.57	-90.00	-8,175.80	2,271.98	4,854.36	4,662.36	192.00	25.284		
10,500.00	7,806.94	7,753.94	7,753.94	73.12	155.57	-90.00	-8,175.80	2,271.98	4,762.85	4,570.08	192.77	24.707		
10,600.00	7,806.94	7,753.94	7,753.94	74.76	155.57	-90.00	-8,175.80	2,271.98	4,671.68	4,478.08	193.60	24.130		
10,700.00	7,806.94	7,753.94	7,753.94	76.41	155.57	-90.00	-8,175.80	2,271.98	4,580.89	4,386.40	194.49	23.553		
10,800.00	7,806.94	7,753.94	7,753.94	78.06	155.57	-90.00	-8,175.80	2,271.98	4,490.48	4,295.04	195.44	22.976		
10,900.00	7,806.93	7,753.93	7,753.93	79.72	155.57	-90.00	-8,175.80	2,271.98	4,400.49	4,204.04	196.45	22.400		
11,000.00	7,806.93	7,753.93	7,753.93	81.38	155.57	-90.00	-8,175.80	2,271.98	4,310.95	4,113.42	197.53	21.824		
11,100.00	7,806.93	7,753.93	7,753.93	83.05	155.57	-90.00	-8,175.80	2,271.98	4,221.87	4,023.19	198.68	21.250		
11,200.00	7,806.93	7,753.93	7,753.93	84.72	155.57	-90.00	-8,175.80	2,271.98	4,133.29	3,933.39	199.89	20.677		
11,300.00	7,806.92	7,753.92	7,753.92	86.39	155.57	-90.00	-8,175.80	2,271.98	4,045.24	3,844.05	201.19	20.107		
11,400.00	7,806.92	7,753.92	7,753.92	88.07	155.57	-90.00	-8,175.80	2,271.98	3,957.76	3,755.20	202.56	19.539		
11,500.00	7,806.92	7,753.92	7,753.92	89.75	155.57	-90.00	-8,175.80	2,271.98	3,870.89	3,666.87	204.02	18.973		
11,600.00	7,806.92	7,753.92	7,753.92	91.44	155.57	-90.00	-8,175.80	2,271.98	3,784.66	3,579.10	205.56	18.411		
11,700.00	7,806.91	7,753.91	7,753.91	93.13	155.57	-90.00	-8,175.80	2,271.98	3,699.13	3,491.94	207.19	17.853		
11,800.00	7,806.91	7,753.91	7,753.91	94.82	155.57	-90.00	-8,175.80	2,271.98	3,614.35	3,405.42	208.92	17.300		
11,900.00	7,806.91	7,753.91	7,753.91	96.52	155.57	-90.00	-8,175.80	2,271.98	3,530.35	3,319.60	210.75	16.751		
12,000.00	7,806.91	7,753.91	7,753.91	98.21	155.57	-90.00	-8,175.80	2,271.98	3,447.22	3,234.54	212.68	16.209		
12,100.00	7,806.90	7,753.90	7,753.90	99.91	155.57	-90.00	-8,175.80	2,271.98	3,365.00	3,150.28	214.71	15.672		
12,200.00	7,806.90	7,753.90	7,753.90	101.62	155.57	-90.00	-8,175.80	2,271.98	3,283.76	3,066.90	216.86	15.142		
12,300.00	7,806.90	7,753.90	7,753.90	103.32	155.57	-90.00	-8,175.80	2,271.98	3,203.59	2,984.47	219.13	14.620		
12,400.00	7,806.90	7,753.90	7,753.90	105.03	155.57	-90.00	-8,175.80	2,271.98	3,124.57	2,903.06	221.51	14.106		
12,500.00	7,806.89	7,753.89	7,753.89	106.74	155.57	-90.00	-8,175.80	2,271.98	3,046.77	2,822.76	224.01	13.601		
12,600.00	7,806.89	7,753.89	7,753.89	108.45	155.57	-90.00	-8,175.80	2,271.98	2,970.31	2,743.66	226.64	13.106		
12,700.00	7,806.89	7,753.89	7,753.89	110.17	155.57	-90.00	-8,175.80	2,271.98	2,895.28	2,665.87	229.41	12.621		
12,800.00	7,806.89	7,753.89	7,753.89	111.88	155.57	-90.00	-8,175.80	2,271.98	2,821.80	2,589.50	232.30	12.147		
12,900.00	7,806.88	7,753.88	7,753.88	113.60	155.57	-90.00	-8,175.80	2,271.98	2,749.99	2,514.67	235.32	11.686		
13,000.00	7,806.88	7,753.88	7,753.88	115.32	155.57	-90.00	-8,175.80	2,271.98	2,679.99	2,441.51	238.48	11.238		
13,100.00	7,806.88	7,753.88	7,753.88	117.04	155.57	-90.00	-8,175.80	2,271.98	2,611.95	2,370.18	241.76	10.804		
13,200.00	7,806.88	7,753.88	7,753.88	118.76	155.57	-90.00	-8,175.80	2,271.98	2,546.01	2,300.83	245.18	10.384		
13,300.00	7,806.87	7,753.87	7,753.87	120.48	155.57	-90.00	-8,175.80	2,271.98	2,482.35	2,233.64	248.71	9.981		
13,400.00	7,806.87	7,753.87	7,753.87	122.21	155.57	-90.00	-8,175.80	2,271.98	2,421.15	2,168.79	252.36	9.594		
13,500.00	7,806.87	7,753.87	7,753.87	123.94	155.57	-90.00	-8,175.80	2,271.98	2,362.60	2,106.49	256.11	9.225		
13,600.00	7,806.87	7,753.87	7,753.87	125.66	155.57	-90.00	-8,175.80	2,271.98	2,306.90	2,046.95	259.95	8.874		
13,700.00	7,806.86	7,753.86	7,753.86	127.39	155.57	-90.00	-8,175.80	2,271.98	2,254.26	1,990.41	263.85	8.544		
13,800.00	7,806.86	7,753.86	7,753.86	129.12	155.57	-90.00	-8,175.80	2,271.98	2,204.90	1,937.10	267.80	8.233		
13,900.00	7,806.86	7,753.86	7,753.86	130.85	155.57	-90.00	-8,175.80	2,271.98	2,159.05	1,887.29	271.76	7.945		
14,000.00	7,806.86	7,753.86	7,753.86	132.59	155.57	-90.00	-8,175.80	2,271.98	2,116.93	1,841.23	275.70	7.678		
14,100.00	7,806.85	7,753.85	7,753.85	134.32	155.57	-90.00	-8,175.80	2,271.98	2,078.78	1,799.18	279.60	7.435		

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-20-3N
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-20-3N	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	
14,200.00	7,806.85	7,753.85	7,753.85	136.06	155.57	-90.00	-8,175.80	2,271.98	2,044.80	1,761.41	283.39	7.215	
14,300.00	7,806.85	7,753.85	7,753.85	137.79	155.57	-90.00	-8,175.80	2,271.98	2,015.22	1,728.17	287.06	7.020	
14,400.00	7,806.85	7,753.85	7,753.85	139.53	155.57	-90.00	-8,175.80	2,271.98	1,990.23	1,699.70	290.54	6.850	
14,500.00	7,806.84	7,753.84	7,753.84	141.27	155.57	-90.00	-8,175.80	2,271.98	1,970.01	1,676.22	293.79	6.705	
14,600.00	7,806.84	7,753.84	7,753.84	143.00	155.57	-90.00	-8,175.80	2,271.98	1,954.70	1,657.92	296.78	6.586	
14,700.00	7,806.84	7,753.84	7,753.84	144.74	155.57	-90.00	-8,175.80	2,271.98	1,944.41	1,644.95	299.46	6.493	
14,800.00	7,806.84	7,753.84	7,753.84	146.48	155.57	-90.00	-8,175.80	2,271.98	1,939.24	1,637.43	301.81	6.425	
14,850.47	7,806.84	7,753.84	7,753.84	147.36	155.57	-90.00	-8,175.80	2,271.98	1,938.58	1,635.73	302.86	6.401 CC	
14,900.00	7,806.83	7,753.83	7,753.83	148.22	155.57	-90.00	-8,175.80	2,271.98	1,939.21	1,635.42	303.79	6.383 ES	
15,000.00	7,806.83	7,753.83	7,753.83	149.97	155.57	-90.00	-8,175.80	2,271.98	1,944.34	1,638.94	305.40	6.367 SF	
15,100.00	7,806.83	7,753.83	7,753.83	151.71	155.57	-90.00	-8,175.80	2,271.98	1,954.57	1,647.96	306.61	6.375	
15,200.00	7,806.83	7,753.83	7,753.83	153.45	155.57	-90.00	-8,175.80	2,271.98	1,969.84	1,662.39	307.45	6.407	
15,300.00	7,806.82	7,753.82	7,753.82	155.19	155.57	-90.00	-8,175.80	2,271.98	1,990.02	1,682.11	307.91	6.463	
15,400.00	7,806.82	7,753.82	7,753.82	156.94	155.57	-90.00	-8,175.80	2,271.98	2,014.96	1,706.95	308.02	6.542	
15,500.00	7,806.82	7,753.82	7,753.82	158.68	155.57	-90.00	-8,175.80	2,271.98	2,044.50	1,736.71	307.79	6.642	
15,600.00	7,806.82	7,753.82	7,753.82	160.43	155.57	-90.00	-8,175.80	2,271.98	2,078.43	1,771.16	307.27	6.764	
15,700.00	7,806.81	7,753.81	7,753.81	162.18	155.57	-90.00	-8,175.80	2,271.98	2,116.55	1,810.07	306.48	6.906	
15,800.00	7,806.81	7,753.81	7,753.81	163.92	155.57	-90.00	-8,175.80	2,271.98	2,158.63	1,853.18	305.46	7.067	
15,900.00	7,806.81	7,753.81	7,753.81	165.67	155.57	-90.00	-8,175.80	2,271.98	2,204.45	1,900.22	304.23	7.246	
16,000.00	7,806.81	7,753.81	7,753.81	167.42	155.57	-90.00	-8,175.80	2,271.98	2,253.78	1,950.93	302.84	7.442	
16,100.00	7,806.80	7,753.80	7,753.80	169.17	155.57	-90.00	-8,175.80	2,271.98	2,306.39	2,005.07	301.32	7.654	
16,200.00	7,806.80	7,753.80	7,753.80	170.91	155.57	-90.00	-8,175.80	2,271.98	2,362.06	2,062.38	299.68	7.882	
16,300.00	7,806.80	7,753.80	7,753.80	172.66	155.57	-90.00	-8,175.80	2,271.98	2,420.58	2,122.62	297.97	8.124	
16,400.00	7,806.80	7,753.80	7,753.80	174.41	155.57	-90.00	-8,175.80	2,271.98	2,481.76	2,185.57	296.19	8.379	
16,500.00	7,806.79	7,753.79	7,753.79	176.16	155.57	-90.00	-8,175.80	2,271.98	2,545.39	2,251.01	294.38	8.647	
16,600.00	7,806.79	7,753.79	7,753.79	177.92	155.57	-90.00	-8,175.80	2,271.98	2,611.31	2,318.76	292.55	8.926	
16,700.00	7,806.79	7,753.79	7,753.79	179.67	155.57	-90.00	-8,175.80	2,271.98	2,679.34	2,388.63	290.70	9.217	
16,800.00	7,806.79	7,753.79	7,753.79	181.42	155.57	-90.00	-8,175.80	2,271.98	2,749.32	2,460.45	288.87	9.518	
16,900.00	7,806.78	7,753.78	7,753.78	183.17	155.57	-90.00	-8,175.80	2,271.98	2,821.11	2,534.06	287.05	9.828	
17,000.00	7,806.78	7,753.78	7,753.78	184.92	155.57	-90.00	-8,175.80	2,271.98	2,894.57	2,609.32	285.25	10.147	
17,100.00	7,806.78	7,753.78	7,753.78	186.68	155.57	-90.00	-8,175.80	2,271.98	2,969.59	2,686.10	283.49	10.475	
17,200.00	7,806.78	7,753.78	7,753.78	188.43	155.57	-90.00	-8,175.80	2,271.98	3,046.04	2,764.28	281.76	10.811	
17,300.00	7,806.77	7,753.77	7,753.77	190.18	155.57	-90.00	-8,175.80	2,271.98	3,123.82	2,843.76	280.07	11.154	
17,400.00	7,806.77	7,753.77	7,753.77	191.94	155.57	-90.00	-8,175.80	2,271.98	3,202.84	2,924.42	278.42	11.504	
17,500.00	7,806.77	7,753.77	7,753.77	193.69	155.57	-90.00	-8,175.80	2,271.98	3,283.00	3,006.19	276.81	11.860	
17,600.00	7,806.77	7,753.77	7,753.77	195.45	155.57	-90.00	-8,175.80	2,271.98	3,364.22	3,088.97	275.25	12.222	
17,700.00	7,806.76	7,753.76	7,753.76	197.20	155.57	-90.00	-8,175.80	2,271.98	3,446.43	3,172.69	273.74	12.590	
17,800.00	7,806.76	7,753.76	7,753.76	198.96	155.57	-90.00	-8,175.80	2,271.98	3,529.56	3,257.29	272.27	12.963	
17,877.44	7,807.00	7,754.00	7,754.00	200.32	155.58	-90.00	-8,175.80	2,271.98	3,594.49	3,323.32	271.17	13.256	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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		
6,500.00	6,407.16	6,416.16	6,416.16	27.92	128.66	28.37	-10,701.71	-1,754.00	9,995.37	9,842.36	153.01	65.325		
6,600.00	6,505.19	6,514.19	6,514.19	28.41	130.63	28.43	-10,701.71	-1,754.00	9,977.93	9,822.54	155.39	64.213		
6,664.73	6,568.65	6,577.65	6,577.65	28.73	131.91	28.46	-10,701.71	-1,754.00	9,966.65	9,809.72	156.93	63.511		
6,700.00	6,603.27	6,612.27	6,612.27	28.90	132.60	28.42	-10,701.71	-1,754.00	9,960.69	9,802.93	157.77	63.136		
6,800.00	6,701.84	6,710.84	6,710.84	29.36	134.59	28.33	-10,701.71	-1,754.00	9,945.86	9,785.71	160.14	62.106		
6,900.00	6,800.94	6,809.94	6,809.94	29.78	136.58	28.25	-10,701.71	-1,754.00	9,934.07	9,771.55	162.52	61.126		
7,000.00	6,900.45	6,909.45	6,909.45	30.17	138.58	28.19	-10,701.71	-1,754.00	9,925.35	9,760.46	164.89	60.195		
7,100.00	7,000.24	7,009.24	7,009.24	30.53	140.59	28.16	-10,701.71	-1,754.00	9,919.69	9,752.45	167.25	59.312		
7,200.00	7,100.19	7,109.19	7,109.19	30.85	142.60	28.14	-10,701.71	-1,754.00	9,917.11	9,747.52	169.59	58.476		
7,233.81	7,134.00	7,143.00	7,143.00	30.95	143.28	-168.10	-10,701.71	-1,754.00	9,916.94	9,746.56	170.38	58.205		
7,300.00	7,200.19	7,209.19	7,209.19	31.12	144.61	-168.10	-10,701.71	-1,754.00	9,916.94	9,745.02	171.91	57.685		
7,333.81	7,234.00	7,243.00	7,243.00	31.21	145.29	-168.10	-10,701.71	-1,754.00	9,916.94	9,744.24	172.70	57.424		
7,350.00	7,250.18	7,259.18	7,259.18	31.26	145.61	12.24	-10,701.71	-1,754.00	9,916.71	9,743.64	173.07	57.297		
7,400.00	7,300.04	7,309.04	7,309.04	31.44	146.62	12.32	-10,701.71	-1,754.00	9,913.21	9,738.95	174.25	56.890		
7,450.00	7,349.39	7,358.39	7,358.39	31.66	147.61	12.50	-10,701.71	-1,754.00	9,905.46	9,730.03	175.43	56.464		
7,500.00	7,397.87	7,406.87	7,406.87	31.92	148.58	12.79	-10,701.71	-1,754.00	9,893.55	9,716.95	176.60	56.022		
7,550.00	7,445.09	7,454.09	7,454.09	32.22	149.53	13.19	-10,701.71	-1,754.00	9,877.56	9,699.80	177.76	55.568		
7,600.00	7,490.72	7,500.29	7,499.72	32.55	150.46	13.72	-10,701.71	-1,754.00	9,857.60	9,678.71	178.89	55.104		
7,650.00	7,534.38	7,543.38	7,543.38	32.92	151.33	14.41	-10,701.71	-1,754.00	9,833.84	9,653.87	179.97	54.642		
7,700.00	7,575.77	7,584.77	7,584.77	33.32	152.16	15.29	-10,701.71	-1,754.00	9,806.46	9,625.45	181.01	54.177		
7,750.00	7,614.55	7,623.55	7,623.55	33.75	152.94	16.41	-10,701.71	-1,754.00	9,775.66	9,593.67	181.99	53.715		
7,800.00	7,650.43	7,659.43	7,659.43	34.22	153.66	17.84	-10,701.71	-1,754.00	9,741.68	9,558.77	182.91	53.260		
7,850.00	7,683.15	7,707.85	7,692.15	34.71	154.64	19.66	-10,701.71	-1,754.00	9,704.78	9,520.71	184.07	52.723		
7,900.00	7,712.45	7,721.45	7,721.45	35.23	154.91	22.05	-10,701.71	-1,754.00	9,665.25	9,480.73	184.52	52.380		
7,950.00	7,738.11	7,747.11	7,747.11	35.78	155.43	25.22	-10,701.71	-1,754.00	9,623.39	9,438.19	185.20	51.961		
8,000.00	7,759.93	7,768.93	7,768.93	36.35	155.87	29.54	-10,701.71	-1,754.00	9,579.51	9,393.72	185.80	51.559		
8,050.00	7,777.75	7,786.75	7,786.75	36.93	156.22	35.63	-10,701.71	-1,754.00	9,533.96	9,347.66	186.29	51.177		
8,100.00	7,791.43	7,800.43	7,800.43	37.53	156.50	44.47	-10,701.71	-1,754.00	9,487.07	9,300.37	186.70	50.815		
8,150.00	7,800.87	7,809.87	7,809.87	38.14	156.69	57.44	-10,701.71	-1,754.00	9,439.21	9,252.21	187.00	50.477		
8,200.00	7,806.00	7,815.00	7,815.00	38.76	156.79	75.57	-10,701.71	-1,754.00	9,390.75	9,203.54	187.21	50.163		
8,233.89	7,807.00	7,816.00	7,816.00	39.18	156.81	90.01	-10,701.71	-1,754.00	9,357.74	9,170.45	187.29	49.964		
8,300.00	7,807.00	7,816.00	7,816.00	40.00	156.81	90.01	-10,701.71	-1,754.00	9,293.33	9,105.92	187.41	49.589		
8,400.00	7,807.00	7,816.00	7,816.00	41.29	156.81	90.01	-10,701.71	-1,754.00	9,195.95	9,008.36	187.60	49.020		
8,500.00	7,806.99	7,815.99	7,815.99	42.60	156.81	90.01	-10,701.71	-1,754.00	9,098.63	8,910.83	187.79	48.450		
8,600.00	7,806.99	7,815.99	7,815.99	43.95	156.81	90.01	-10,701.71	-1,754.00	9,001.36	8,813.36	188.00	47.878		
8,700.00	7,806.99	7,815.99	7,815.99	45.33	156.81	90.01	-10,701.71	-1,754.00	8,904.16	8,715.93	188.23	47.306		
8,800.00	7,806.99	7,815.99	7,815.99	46.74	156.81	90.01	-10,701.71	-1,754.00	8,807.02	8,618.56	188.46	46.732		
8,900.00	7,806.98	7,815.98	7,815.98	48.17	156.81	90.01	-10,701.71	-1,754.00	8,709.94	8,521.24	188.71	46.156		
9,000.00	7,806.98	7,815.98	7,815.98	49.62	156.81	90.01	-10,701.71	-1,754.00	8,612.93	8,423.97	188.96	45.580		
9,100.00	7,806.98	7,815.98	7,815.98	51.09	156.81	90.01	-10,701.71	-1,754.00	8,515.99	8,326.76	189.23	45.002		
9,200.00	7,806.98	7,815.98	7,815.98	52.59	156.81	90.01	-10,701.71	-1,754.00	8,419.12	8,229.60	189.52	44.423		
9,300.00	7,806.97	7,815.97	7,815.97	54.09	156.81	90.01	-10,701.71	-1,754.00	8,322.33	8,132.51	189.82	43.844		
9,400.00	7,806.97	7,815.97	7,815.97	55.62	156.81	90.01	-10,701.71	-1,754.00	8,225.61	8,035.48	190.13	43.263		
9,500.00	7,806.97	7,815.97	7,815.97	57.16	156.81	90.01	-10,701.71	-1,754.00	8,128.97	7,938.51	190.46	42.680		
9,600.00	7,806.97	7,815.97	7,815.97	58.71	156.81	90.01	-10,701.71	-1,754.00	8,032.42	7,841.61	190.81	42.097		
9,700.00	7,806.96	7,815.96	7,815.96	60.27	156.81	90.01	-10,701.71	-1,754.00	7,935.95	7,744.78	191.17	41.513		
9,800.00	7,806.96	7,815.96	7,815.96	61.84	156.81	90.01	-10,701.71	-1,754.00	7,839.56	7,648.02	191.54	40.928		
9,900.00	7,806.96	7,815.96	7,815.96	63.43	156.81	90.01	-10,701.71	-1,754.00	7,743.27	7,551.34	191.94	40.343		
10,000.00	7,806.96	7,815.96	7,815.96	65.02	156.81	90.00	-10,701.71	-1,754.00	7,647.08	7,454.73	192.35	39.756		
10,100.00	7,806.95	7,815.95	7,815.95	66.63	156.81	90.00	-10,701.71	-1,754.00	7,550.98	7,358.20	192.78	39.169		
10,200.00	7,806.95	7,815.95	7,815.95	68.24	156.81	90.00	-10,701.71	-1,754.00	7,454.99	7,261.75	193.23	38.580		
10,300.00	7,806.95	7,815.95	7,815.95	69.86	156.81	90.00	-10,701.71	-1,754.00	7,359.10	7,165.40	193.70	37.992		

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-20-3N
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-20-3N	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		
10,400.00	7,806.95	7,815.95	7,815.95	71.49	156.81	90.00	-10,701.71	-1,754.00	7,263.32	7,069.13	194.19	37.402		
10,500.00	7,806.94	7,815.94	7,815.94	73.12	156.81	90.00	-10,701.71	-1,754.00	7,167.66	6,972.96	194.71	36.813		
10,600.00	7,806.94	7,815.94	7,815.94	74.76	156.81	90.00	-10,701.71	-1,754.00	7,072.12	6,876.88	195.24	36.222		
10,700.00	7,806.94	7,815.94	7,815.94	76.41	156.81	90.00	-10,701.71	-1,754.00	6,976.71	6,780.91	195.80	35.632		
10,800.00	7,806.94	7,815.94	7,815.94	78.06	156.81	90.00	-10,701.71	-1,754.00	6,881.42	6,685.04	196.38	35.041		
10,900.00	7,806.93	7,815.93	7,815.93	79.72	156.81	90.00	-10,701.71	-1,754.00	6,786.27	6,589.28	196.99	34.450		
11,000.00	7,806.93	7,815.93	7,815.93	81.38	156.81	90.00	-10,701.71	-1,754.00	6,691.26	6,493.64	197.62	33.859		
11,100.00	7,806.93	7,815.93	7,815.93	83.05	156.81	90.00	-10,701.71	-1,754.00	6,596.40	6,398.12	198.28	33.268		
11,200.00	7,806.93	7,815.93	7,815.93	84.72	156.81	90.00	-10,701.71	-1,754.00	6,501.69	6,302.72	198.97	32.677		
11,300.00	7,806.92	7,815.92	7,815.92	86.39	156.81	90.00	-10,701.71	-1,754.00	6,407.15	6,207.46	199.68	32.087		
11,400.00	7,806.92	7,815.92	7,815.92	88.07	156.81	90.00	-10,701.71	-1,754.00	6,312.77	6,112.34	200.43	31.496		
11,500.00	7,806.92	7,815.92	7,815.92	89.75	156.81	90.00	-10,701.71	-1,754.00	6,218.57	6,017.36	201.21	30.906		
11,600.00	7,806.92	7,815.92	7,815.92	91.44	156.81	90.00	-10,701.71	-1,754.00	6,124.55	5,922.53	202.02	30.317		
11,700.00	7,806.91	7,815.91	7,815.91	93.13	156.81	90.00	-10,701.71	-1,754.00	6,030.72	5,827.86	202.86	29.729		
11,800.00	7,806.91	7,815.91	7,815.91	94.82	156.81	90.00	-10,701.71	-1,754.00	5,937.10	5,733.36	203.74	29.141		
11,900.00	7,806.91	7,815.91	7,815.91	96.52	156.81	90.00	-10,701.71	-1,754.00	5,843.68	5,639.03	204.65	28.555		
12,000.00	7,806.91	7,815.91	7,815.91	98.21	156.81	90.00	-10,701.71	-1,754.00	5,750.49	5,544.89	205.60	27.969		
12,100.00	7,806.90	7,815.90	7,815.90	99.91	156.81	90.00	-10,701.71	-1,754.00	5,657.53	5,450.94	206.59	27.385		
12,200.00	7,806.90	7,815.90	7,815.90	101.62	156.81	90.00	-10,701.71	-1,754.00	5,564.82	5,357.19	207.63	26.802		
12,300.00	7,806.90	7,815.90	7,815.90	103.32	156.81	90.00	-10,701.71	-1,754.00	5,472.36	5,263.66	208.70	26.221		
12,400.00	7,806.90	7,815.90	7,815.90	105.03	156.81	90.00	-10,701.71	-1,754.00	5,380.17	5,170.35	209.82	25.642		
12,500.00	7,806.89	7,815.89	7,815.89	106.74	156.81	90.00	-10,701.71	-1,754.00	5,288.26	5,077.28	210.99	25.065		
12,600.00	7,806.89	7,815.89	7,815.89	108.45	156.81	90.00	-10,701.71	-1,754.00	5,196.66	4,984.46	212.20	24.489		
12,700.00	7,806.89	7,815.89	7,815.89	110.17	156.81	90.00	-10,701.71	-1,754.00	5,105.37	4,891.90	213.46	23.917		
12,800.00	7,806.89	7,815.89	7,815.89	111.88	156.81	90.00	-10,701.71	-1,754.00	5,014.41	4,799.62	214.78	23.346		
12,900.00	7,806.88	7,815.88	7,815.88	113.60	156.81	90.00	-10,701.71	-1,754.00	4,923.80	4,707.64	216.15	22.779		
13,000.00	7,806.88	7,815.88	7,815.88	115.32	156.81	90.00	-10,701.71	-1,754.00	4,833.56	4,615.98	217.58	22.215		
13,100.00	7,806.88	7,815.88	7,815.88	117.04	156.81	90.00	-10,701.71	-1,754.00	4,743.71	4,524.64	219.07	21.653		
13,200.00	7,806.88	7,815.88	7,815.88	118.76	156.81	90.00	-10,701.71	-1,754.00	4,654.28	4,433.66	220.63	21.096		
13,300.00	7,806.87	7,815.87	7,815.87	120.48	156.81	90.00	-10,701.71	-1,754.00	4,565.29	4,343.05	222.24	20.542		
13,400.00	7,806.87	7,815.87	7,815.87	122.21	156.81	90.00	-10,701.71	-1,754.00	4,476.76	4,252.83	223.93	19.992		
13,500.00	7,806.87	7,815.87	7,815.87	123.94	156.81	90.00	-10,701.71	-1,754.00	4,388.72	4,163.04	225.68	19.446		
13,600.00	7,806.87	7,815.87	7,815.87	125.66	156.81	90.00	-10,701.71	-1,754.00	4,301.21	4,073.70	227.52	18.905		
13,700.00	7,806.86	7,815.86	7,815.86	127.39	156.81	90.00	-10,701.71	-1,754.00	4,214.25	3,984.83	229.42	18.369		
13,800.00	7,806.86	7,815.86	7,815.86	129.12	156.81	90.00	-10,701.71	-1,754.00	4,127.89	3,896.47	231.41	17.838		
13,900.00	7,806.86	7,815.86	7,815.86	130.85	156.81	90.00	-10,701.71	-1,754.00	4,042.15	3,808.66	233.48	17.312		
14,000.00	7,806.86	7,815.86	7,815.86	132.59	156.81	90.00	-10,701.71	-1,754.00	3,957.08	3,721.43	235.65	16.793		
14,100.00	7,806.85	7,815.85	7,815.85	134.32	156.81	90.00	-10,701.71	-1,754.00	3,872.73	3,634.83	237.90	16.279		
14,200.00	7,806.85	7,815.85	7,815.85	136.06	156.81	90.00	-10,701.71	-1,754.00	3,789.13	3,548.89	240.24	15.772		
14,300.00	7,806.85	7,815.85	7,815.85	137.79	156.81	90.00	-10,701.71	-1,754.00	3,706.35	3,463.66	242.69	15.272		
14,400.00	7,806.85	7,815.85	7,815.85	139.53	156.81	90.00	-10,701.71	-1,754.00	3,624.44	3,379.20	245.24	14.779		
14,500.00	7,806.84	7,815.84	7,815.84	141.27	156.81	90.00	-10,701.71	-1,754.00	3,543.45	3,295.57	247.89	14.295		
14,600.00	7,806.84	7,815.84	7,815.84	143.00	156.81	90.00	-10,701.71	-1,754.00	3,463.46	3,212.82	250.65	13.818		
14,700.00	7,806.84	7,815.84	7,815.84	144.74	156.81	90.00	-10,701.71	-1,754.00	3,384.54	3,131.02	253.52	13.350		
14,800.00	7,806.84	7,815.84	7,815.84	146.48	156.81	90.00	-10,701.71	-1,754.00	3,306.75	3,050.24	256.51	12.891		
14,900.00	7,806.83	7,815.83	7,815.83	148.22	156.81	90.00	-10,701.71	-1,754.00	3,230.19	2,970.58	259.62	12.442		
15,000.00	7,806.83	7,815.83	7,815.83	149.97	156.81	90.00	-10,701.71	-1,754.00	3,154.94	2,892.10	262.84	12.003		
15,100.00	7,806.83	7,815.83	7,815.83	151.71	156.81	90.00	-10,701.71	-1,754.00	3,081.10	2,814.92	266.18	11.575		
15,200.00	7,806.83	7,815.83	7,815.83	153.45	156.81	90.00	-10,701.71	-1,754.00	3,008.77	2,739.12	269.65	11.158		
15,300.00	7,806.82	7,815.82	7,815.82	155.19	156.81	90.00	-10,701.71	-1,754.00	2,938.06	2,664.83	273.23	10.753		
15,400.00	7,806.82	7,815.82	7,815.82	156.94	156.81	90.00	-10,701.71	-1,754.00	2,869.10	2,592.17	276.93	10.361		
15,500.00	7,806.82	7,815.82	7,815.82	158.68	156.81	90.00	-10,701.71	-1,754.00	2,802.01	2,521.27	280.74	9.981		

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-20-3N
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-20-3N	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						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
15,600.00	7,806.82	7,815.82	7,815.82	160.43	156.81	90.00	-10,701.71	-1,754.00	2,736.93	2,452.27	284.65	9.615	
15,700.00	7,806.81	7,815.81	7,815.81	162.18	156.81	90.00	-10,701.71	-1,754.00	2,674.00	2,385.34	288.66	9.263	
15,800.00	7,806.81	7,815.81	7,815.81	163.92	156.81	90.00	-10,701.71	-1,754.00	2,613.39	2,320.62	292.76	8.927	
15,900.00	7,806.81	7,815.81	7,815.81	165.67	156.81	90.00	-10,701.71	-1,754.00	2,555.25	2,258.32	296.93	8.605	
16,000.00	7,806.81	7,815.81	7,815.81	167.42	156.81	90.00	-10,701.71	-1,754.00	2,499.77	2,198.61	301.16	8.300	
16,100.00	7,806.80	7,815.80	7,815.80	169.17	156.81	90.00	-10,701.71	-1,754.00	2,447.11	2,141.69	305.42	8.012	
16,200.00	7,806.80	7,815.80	7,815.80	170.91	156.81	90.00	-10,701.71	-1,754.00	2,397.47	2,087.78	309.69	7.742	
16,300.00	7,806.80	7,815.80	7,815.80	172.66	156.81	90.00	-10,701.71	-1,754.00	2,351.04	2,037.11	313.93	7.489	
16,400.00	7,806.80	7,815.80	7,815.80	174.41	156.81	90.00	-10,701.71	-1,754.00	2,308.01	1,989.88	318.13	7.255	
16,500.00	7,806.79	7,815.79	7,815.79	176.16	156.81	90.00	-10,701.71	-1,754.00	2,268.57	1,946.34	322.23	7.040	
16,600.00	7,806.79	7,815.79	7,815.79	177.92	156.81	90.00	-10,701.71	-1,754.00	2,232.92	1,906.71	326.21	6.845	
16,700.00	7,806.79	7,815.79	7,815.79	179.67	156.81	90.00	-10,701.71	-1,754.00	2,201.24	1,871.23	330.01	6.670	
16,800.00	7,806.79	7,815.79	7,815.79	181.42	156.81	90.00	-10,701.71	-1,754.00	2,173.70	1,840.09	333.60	6.516	
16,900.00	7,806.78	7,815.78	7,815.78	183.17	156.81	90.00	-10,701.71	-1,754.00	2,150.46	1,813.52	336.94	6.382	
17,000.00	7,806.78	7,815.78	7,815.78	184.92	156.81	90.00	-10,701.71	-1,754.00	2,131.67	1,791.68	339.99	6.270	
17,100.00	7,806.78	7,815.78	7,815.78	186.68	156.81	90.00	-10,701.71	-1,754.00	2,117.43	1,774.74	342.70	6.179	
17,200.00	7,806.78	7,815.78	7,815.78	188.43	156.81	90.00	-10,701.71	-1,754.00	2,107.85	1,762.81	345.04	6.109	
17,300.00	7,806.77	7,815.77	7,815.77	190.18	156.81	90.00	-10,701.71	-1,754.00	2,102.99	1,756.00	346.99	6.061	
17,352.41	7,806.77	7,815.77	7,815.77	191.10	156.81	90.00	-10,701.71	-1,754.00	2,102.33	1,754.48	347.85	6.044 CC	
17,400.00	7,806.77	7,815.77	7,815.77	191.94	156.81	90.00	-10,701.71	-1,754.00	2,102.87	1,754.34	348.53	6.034 ES	
17,500.00	7,806.77	7,815.77	7,815.77	193.69	156.81	90.00	-10,701.71	-1,754.00	2,107.51	1,757.86	349.65	6.028 SF	
17,600.00	7,806.77	7,815.77	7,815.77	195.45	156.81	90.00	-10,701.71	-1,754.00	2,116.86	1,766.52	350.34	6.042	
17,700.00	7,806.76	7,815.76	7,815.76	197.20	156.81	90.00	-10,701.71	-1,754.00	2,130.87	1,780.26	350.62	6.077	
17,800.00	7,806.76	7,815.76	7,815.76	198.96	156.81	90.00	-10,701.71	-1,754.00	2,149.45	1,798.96	350.49	6.133	
17,877.44	7,807.00	7,816.00	7,816.00	200.32	156.81	90.00	-10,701.71	-1,754.00	2,166.97	1,816.84	350.14	6.189	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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	175.54	-9,698.55	756.29	9,728.03					
100.00	100.00	73.00	73.00	0.13	0.85	175.54	-9,698.55	756.29	9,727.99	9,727.01	0.98	9,926.801		
200.00	200.00	173.00	173.00	0.49	2.84	175.54	-9,698.55	756.29	9,727.99	9,724.66	3.33	2,922.077		
300.00	300.00	273.00	273.00	0.85	4.97	175.54	-9,698.55	756.29	9,727.99	9,722.17	5.83	1,669.784		
400.00	400.00	373.00	373.00	1.21	7.03	175.54	-9,698.55	756.29	9,727.99	9,719.75	8.24	1,181.065		
500.00	500.00	473.00	473.00	1.57	9.06	175.54	-9,698.55	756.29	9,727.99	9,717.36	10.63	915.336		
600.00	600.00	573.00	573.00	1.93	11.08	175.54	-9,698.55	756.29	9,727.99	9,714.98	13.01	747.688		
700.00	700.00	673.00	673.00	2.29	13.10	175.54	-9,698.55	756.29	9,727.99	9,712.60	15.39	632.120		
800.00	800.00	773.00	773.00	2.64	15.12	175.54	-9,698.55	756.29	9,727.99	9,710.23	17.77	547.572		
900.00	900.00	873.00	873.00	3.00	17.14	175.54	-9,698.55	756.29	9,727.99	9,707.85	20.14	483.012		
1,000.00	1,000.00	973.00	973.00	3.36	19.15	175.54	-9,698.55	756.29	9,727.99	9,705.48	22.51	432.091		
1,100.00	1,100.00	1,073.00	1,073.00	3.72	21.17	175.54	-9,698.55	756.29	9,727.99	9,703.10	24.89	390.895		
1,200.00	1,200.00	1,173.00	1,173.00	4.08	23.18	175.54	-9,698.55	756.29	9,727.99	9,700.73	27.26	356.878		
1,300.00	1,300.00	1,273.00	1,273.00	4.44	25.19	175.54	-9,698.55	756.29	9,727.99	9,698.36	29.63	328.313		
1,400.00	1,400.00	1,373.00	1,373.00	4.79	27.21	175.54	-9,698.55	756.29	9,727.99	9,695.99	32.00	303.984		
1,500.00	1,499.98	1,472.98	1,472.98	5.14	29.22	11.79	-9,698.55	756.29	9,726.28	9,691.93	34.35	283.112		
1,600.00	1,599.84	1,572.84	1,572.84	5.46	31.23	11.82	-9,698.55	756.29	9,721.16	9,684.47	36.69	264.938		
1,700.00	1,699.45	1,672.45	1,672.45	5.80	33.23	11.87	-9,698.55	756.29	9,712.63	9,673.60	39.03	248.860		
1,800.00	1,798.70	1,771.70	1,771.70	6.14	35.23	11.93	-9,698.55	756.29	9,700.70	9,659.34	41.36	234.539		
1,900.00	1,897.47	1,870.47	1,870.47	6.49	37.22	12.01	-9,698.55	756.29	9,685.39	9,641.70	43.69	221.704		
1,969.08	1,965.35	1,938.35	1,938.35	6.75	38.58	12.08	-9,698.55	756.29	9,672.85	9,627.56	45.29	213.586		
2,000.00	1,995.66	1,968.66	1,968.66	6.86	39.19	12.09	-9,698.55	756.29	9,666.88	9,620.87	46.00	210.132		
2,100.00	2,093.69	2,066.69	2,066.69	7.25	41.16	12.11	-9,698.55	756.29	9,647.56	9,599.25	48.32	199.675		
2,200.00	2,191.72	2,164.72	2,164.72	7.65	43.14	12.14	-9,698.55	756.29	9,628.25	9,577.62	50.63	190.157		
2,300.00	2,289.76	2,262.76	2,262.76	8.07	45.11	12.16	-9,698.55	756.29	9,608.94	9,555.99	52.95	181.461		
2,400.00	2,387.79	2,360.79	2,360.79	8.49	47.08	12.19	-9,698.55	756.29	9,589.64	9,534.36	55.28	173.484		
2,500.00	2,485.82	2,458.82	2,458.82	8.91	49.05	12.21	-9,698.55	756.29	9,570.33	9,512.73	57.60	166.144		
2,600.00	2,583.86	2,556.86	2,556.86	9.35	51.03	12.24	-9,698.55	756.29	9,551.03	9,491.10	59.93	159.366		
2,700.00	2,681.89	2,654.89	2,654.89	9.79	53.00	12.26	-9,698.55	756.29	9,531.73	9,469.46	62.26	153.091		
2,800.00	2,779.92	2,752.92	2,752.92	10.24	54.97	12.29	-9,698.55	756.29	9,512.43	9,447.83	64.59	147.264		
2,900.00	2,877.96	2,850.96	2,850.96	10.69	56.94	12.31	-9,698.55	756.29	9,493.13	9,426.20	66.93	141.839		
3,000.00	2,975.99	2,948.99	2,948.99	11.14	58.91	12.34	-9,698.55	756.29	9,473.83	9,404.57	69.26	136.777		
3,100.00	3,074.02	3,047.02	3,047.02	11.60	60.88	12.37	-9,698.55	756.29	9,454.54	9,382.93	71.60	132.043		
3,200.00	3,172.06	3,145.06	3,145.06	12.06	62.86	12.39	-9,698.55	756.29	9,435.24	9,361.30	73.94	127.606		
3,300.00	3,270.09	3,243.09	3,243.09	12.52	64.83	12.42	-9,698.55	756.29	9,415.95	9,339.67	76.28	123.440		
3,400.00	3,368.12	3,341.12	3,341.12	12.98	66.80	12.44	-9,698.55	756.29	9,396.66	9,318.04	78.62	119.519		
3,500.00	3,466.16	3,439.16	3,439.16	13.45	68.77	12.47	-9,698.55	756.29	9,377.38	9,296.41	80.96	115.824		
3,600.00	3,564.19	3,537.19	3,537.19	13.92	70.74	12.49	-9,698.55	756.29	9,358.09	9,274.79	83.30	112.336		
3,700.00	3,662.23	3,635.23	3,635.23	14.39	72.71	12.52	-9,698.55	756.29	9,338.81	9,253.16	85.65	109.037		
3,800.00	3,760.26	3,733.26	3,733.26	14.86	74.69	12.55	-9,698.55	756.29	9,319.53	9,231.53	87.99	105.913		
3,900.00	3,858.29	3,831.29	3,831.29	15.34	76.66	12.57	-9,698.55	756.29	9,300.25	9,209.91	90.34	102.951		
4,000.00	3,956.33	3,929.33	3,929.33	15.81	78.63	12.60	-9,698.55	756.29	9,280.97	9,188.29	92.68	100.138		
4,100.00	4,054.36	4,027.36	4,027.36	16.29	80.60	12.63	-9,698.55	756.29	9,261.69	9,166.66	95.03	97.463		
4,200.00	4,152.39	4,125.39	4,125.39	16.77	82.57	12.65	-9,698.55	756.29	9,242.42	9,145.04	97.37	94.916		
4,300.00	4,250.43	4,223.43	4,223.43	17.25	84.54	12.68	-9,698.55	756.29	9,223.15	9,123.42	99.72	92.489		
4,400.00	4,348.46	4,321.46	4,321.46	17.73	86.52	12.71	-9,698.55	756.29	9,203.87	9,101.81	102.07	90.173		
4,500.00	4,446.49	4,419.49	4,419.49	18.21	88.49	12.73	-9,698.55	756.29	9,184.61	9,080.19	104.42	87.960		
4,600.00	4,544.53	4,517.53	4,517.53	18.69	90.46	12.76	-9,698.55	756.29	9,165.34	9,058.57	106.77	85.845		
4,700.00	4,642.56	4,615.56	4,615.56	19.17	92.43	12.79	-9,698.55	756.29	9,146.08	9,036.96	109.12	83.820		
4,800.00	4,740.59	4,713.59	4,713.59	19.65	94.40	12.82	-9,698.55	756.29	9,126.81	9,015.35	111.46	81.881		
4,900.00	4,838.63	4,811.63	4,811.63	20.13	96.37	12.84	-9,698.55	756.29	9,107.55	8,993.74	113.81	80.021		
5,000.00	4,936.66	4,909.66	4,909.66	20.62	98.34	12.87	-9,698.55	756.29	9,088.30	8,972.13	116.16	78.237		

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-20-3N
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-20-3N	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		
5,100.00	5,034.69	5,007.69	5,007.69	21.10	100.32	12.90	-9,698.55	756.29	9,069.04	8,950.52	118.51	76.522		
5,200.00	5,132.73	5,105.73	5,105.73	21.59	102.29	12.93	-9,698.55	756.29	9,049.79	8,928.92	120.87	74.875		
5,300.00	5,230.76	5,203.76	5,203.76	22.07	104.26	12.95	-9,698.55	756.29	9,030.53	8,907.32	123.22	73.290		
5,400.00	5,328.79	5,301.79	5,301.79	22.56	106.23	12.98	-9,698.55	756.29	9,011.28	8,885.72	125.57	71.764		
5,500.00	5,426.83	5,400.17	5,399.83	23.04	108.21	13.01	-9,698.55	756.29	8,992.04	8,864.11	127.93	70.291		
5,600.00	5,524.86	5,502.14	5,497.86	23.53	110.26	13.04	-9,698.55	756.29	8,972.79	8,842.43	130.36	68.832		
5,700.00	5,622.89	5,604.11	5,595.89	24.02	112.31	13.07	-9,698.55	756.29	8,953.55	8,820.76	132.79	67.427		
5,800.00	5,720.93	5,706.07	5,693.93	24.50	114.36	13.10	-9,698.55	756.29	8,934.31	8,799.08	135.22	66.072		
5,900.00	5,818.96	5,808.04	5,791.96	24.99	116.41	13.12	-9,698.55	756.29	8,915.07	8,777.41	137.65	64.765		
6,000.00	5,916.99	5,889.99	5,889.99	25.48	118.06	13.15	-9,698.55	756.29	8,895.83	8,756.15	139.68	63.686		
6,100.00	6,015.03	5,988.03	5,988.03	25.97	120.03	13.18	-9,698.55	756.29	8,876.59	8,734.56	142.04	62.495		
6,200.00	6,113.06	6,086.06	6,086.06	26.45	122.00	13.21	-9,698.55	756.29	8,857.36	8,712.97	144.39	61.344		
6,300.00	6,211.09	6,184.09	6,184.09	26.94	123.97	13.24	-9,698.55	756.29	8,838.13	8,691.39	146.74	60.229		
6,400.00	6,309.13	6,282.13	6,282.13	27.43	125.95	13.27	-9,698.55	756.29	8,818.90	8,669.81	149.10	59.149		
6,500.00	6,407.16	6,380.16	6,380.16	27.92	127.92	13.30	-9,698.55	756.29	8,799.68	8,648.23	151.45	58.102		
6,600.00	6,505.19	6,478.19	6,478.19	28.41	129.89	13.33	-9,698.55	756.29	8,780.45	8,626.65	153.81	57.088		
6,664.73	6,568.65	6,541.65	6,541.65	28.73	131.16	13.35	-9,698.55	756.29	8,768.01	8,612.68	155.33	56.448		
6,700.00	6,603.27	6,576.27	6,576.27	28.90	131.86	13.33	-9,698.55	756.29	8,761.44	8,605.28	156.16	56.105		
6,800.00	6,701.84	6,674.84	6,674.84	29.36	133.84	13.28	-9,698.55	756.29	8,745.07	8,586.55	158.52	55.167		
6,900.00	6,800.94	6,773.94	6,773.94	29.78	135.84	13.24	-9,698.55	756.29	8,732.06	8,571.18	160.88	54.276		
7,000.00	6,900.45	6,873.45	6,873.45	30.17	137.84	13.21	-9,698.55	756.29	8,722.43	8,559.19	163.24	53.432		
7,100.00	7,000.24	6,973.24	6,973.24	30.53	139.84	13.19	-9,698.55	756.29	8,716.19	8,550.59	165.60	52.633		
7,200.00	7,100.19	7,073.19	7,073.19	30.85	141.85	13.18	-9,698.55	756.29	8,713.34	8,545.38	167.96	51.878		
7,233.81	7,134.00	7,107.00	7,107.00	30.95	142.53	176.94	-9,698.55	756.29	8,713.15	8,544.40	168.75	51.634		
7,300.00	7,200.19	7,173.19	7,173.19	31.12	143.86	176.94	-9,698.55	756.29	8,713.15	8,542.86	170.29	51.167		
7,333.81	7,234.00	7,207.00	7,207.00	31.21	144.54	176.94	-9,698.55	756.29	8,713.15	8,542.07	171.07	50.932		
7,350.00	7,250.18	7,223.18	7,223.18	31.26	144.87	-2.72	-9,698.55	756.29	8,712.92	8,541.47	171.45	50.818		
7,400.00	7,300.04	7,273.04	7,273.04	31.44	145.87	-2.74	-9,698.55	756.29	8,709.33	8,536.70	172.63	50.451		
7,450.00	7,349.39	7,322.39	7,322.39	31.66	146.87	-2.78	-9,698.55	756.29	8,701.42	8,527.61	173.81	50.064		
7,500.00	7,397.87	7,370.87	7,370.87	31.92	147.84	-2.85	-9,698.55	756.29	8,689.24	8,514.27	174.97	49.661		
7,550.00	7,445.09	7,418.09	7,418.09	32.22	148.79	-2.94	-9,698.55	756.29	8,672.89	8,496.78	176.11	49.247		
7,600.00	7,490.72	7,463.72	7,463.72	32.55	149.71	-3.07	-9,698.55	756.29	8,652.49	8,475.27	177.22	48.824		
7,650.00	7,534.38	7,507.38	7,507.38	32.92	150.59	-3.23	-9,698.55	756.29	8,628.20	8,449.91	178.28	48.396		
7,700.00	7,575.77	7,548.77	7,548.77	33.32	151.42	-3.44	-9,698.55	756.29	8,600.20	8,420.90	179.30	47.967		
7,750.00	7,614.55	7,587.55	7,587.55	33.75	152.20	-3.70	-9,698.55	756.29	8,568.70	8,388.45	180.25	47.539		
7,800.00	7,650.43	7,623.43	7,623.43	34.22	152.92	-4.04	-9,698.55	756.29	8,533.94	8,352.82	181.13	47.116		
7,850.00	7,683.15	7,656.15	7,656.15	34.71	153.58	-4.49	-9,698.55	756.29	8,496.20	8,314.27	181.93	46.701		
7,900.00	7,712.45	7,685.45	7,685.45	35.23	154.17	-5.09	-9,698.55	756.29	8,455.75	8,273.11	182.64	46.296		
7,950.00	7,738.11	7,711.11	7,711.11	35.78	154.68	-5.92	-9,698.55	756.29	8,412.91	8,229.64	183.27	45.904		
8,000.00	7,759.93	7,732.93	7,732.93	36.35	155.12	-7.11	-9,698.55	756.29	8,367.99	8,184.19	183.80	45.527		
8,050.00	7,777.75	7,750.75	7,750.75	36.93	155.48	-8.97	-9,698.55	756.29	8,321.35	8,137.12	184.23	45.167		
8,100.00	7,791.43	7,764.43	7,764.43	37.53	155.75	-12.21	-9,698.55	756.29	8,273.34	8,088.77	184.56	44.826		
8,150.00	7,800.87	7,773.87	7,773.87	38.14	155.94	-19.06	-9,698.55	756.29	8,224.31	8,039.52	184.79	44.506		
8,200.00	7,806.00	7,779.00	7,779.00	38.76	156.05	-40.63	-9,698.55	756.29	8,174.66	7,989.74	184.92	44.208		
8,233.89	7,807.00	7,780.00	7,780.00	39.18	156.07	-90.03	-9,698.55	756.29	8,140.82	7,955.88	184.94	44.019		
8,300.00	7,807.00	7,780.00	7,780.00	40.00	156.07	-90.03	-9,698.55	756.29	8,074.80	7,889.86	184.94	43.661		
8,400.00	7,807.00	7,780.00	7,780.00	41.29	156.07	-90.03	-9,698.55	756.29	7,974.94	7,789.99	184.95	43.120		
8,500.00	7,806.99	7,779.99	7,779.99	42.60	156.07	-90.03	-9,698.55	756.29	7,875.07	7,690.12	184.95	42.579		
8,600.00	7,806.99	7,779.99	7,779.99	43.95	156.07	-90.03	-9,698.55	756.29	7,775.21	7,590.25	184.96	42.037		
8,700.00	7,806.99	7,779.99	7,779.99	45.33	156.07	-90.03	-9,698.55	756.29	7,675.36	7,490.39	184.97	41.495		
8,800.00	7,806.99	7,779.99	7,779.99	46.74	156.07	-90.03	-9,698.55	756.29	7,575.51	7,390.53	184.98	40.953		
8,900.00	7,806.98	7,779.98	7,779.98	48.17	156.07	-90.03	-9,698.55	756.29	7,475.66	7,290.67	184.99	40.411		

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-20-3N
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-20-3N	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	7,806.98	7,779.98	7,779.98	49.62	156.07	-90.03	-9,698.55	756.29	7,375.81	7,190.81	185.00	39.869		
9,100.00	7,806.98	7,779.98	7,779.98	51.09	156.07	-90.03	-9,698.55	756.29	7,275.97	7,090.96	185.01	39.327		
9,200.00	7,806.98	7,779.98	7,779.98	52.59	156.07	-90.02	-9,698.55	756.29	7,176.14	6,991.11	185.03	38.784		
9,300.00	7,806.97	7,779.97	7,779.97	54.09	156.07	-90.02	-9,698.55	756.29	7,076.30	6,891.26	185.04	38.242		
9,400.00	7,806.97	7,779.97	7,779.97	55.62	156.07	-90.02	-9,698.55	756.29	6,976.48	6,791.42	185.06	37.699		
9,500.00	7,806.97	7,779.97	7,779.97	57.16	156.07	-90.02	-9,698.55	756.29	6,876.66	6,691.58	185.08	37.156		
9,600.00	7,806.97	7,779.97	7,779.97	58.71	156.07	-90.02	-9,698.55	756.29	6,776.84	6,591.75	185.10	36.613		
9,700.00	7,806.96	7,779.96	7,779.96	60.27	156.07	-90.02	-9,698.55	756.29	6,677.03	6,491.91	185.12	36.069		
9,800.00	7,806.96	7,779.96	7,779.96	61.84	156.07	-90.02	-9,698.55	756.29	6,577.23	6,392.09	185.14	35.526		
9,900.00	7,806.96	7,779.96	7,779.96	63.43	156.07	-90.02	-9,698.55	756.29	6,477.43	6,292.26	185.16	34.982		
10,000.00	7,806.96	7,779.96	7,779.96	65.02	156.07	-90.02	-9,698.55	756.29	6,377.63	6,192.45	185.19	34.439		
10,100.00	7,806.95	7,779.95	7,779.95	66.63	156.07	-90.02	-9,698.55	756.29	6,277.85	6,092.63	185.21	33.895		
10,200.00	7,806.95	7,779.95	7,779.95	68.24	156.07	-90.02	-9,698.55	756.29	6,178.07	5,992.83	185.24	33.351		
10,300.00	7,806.95	7,779.95	7,779.95	69.86	156.07	-90.02	-9,698.55	756.29	6,078.30	5,893.02	185.28	32.807		
10,400.00	7,806.95	7,779.95	7,779.95	71.49	156.07	-90.02	-9,698.55	756.29	5,978.53	5,793.23	185.31	32.263		
10,500.00	7,806.94	7,779.94	7,779.94	73.12	156.07	-90.02	-9,698.55	756.29	5,878.78	5,693.43	185.34	31.718		
10,600.00	7,806.94	7,779.94	7,779.94	74.76	156.07	-90.02	-9,698.55	756.29	5,779.03	5,593.65	185.38	31.174		
10,700.00	7,806.94	7,779.94	7,779.94	76.41	156.07	-90.02	-9,698.55	756.29	5,679.29	5,493.87	185.42	30.629		
10,800.00	7,806.94	7,779.94	7,779.94	78.06	156.07	-90.02	-9,698.55	756.29	5,579.56	5,394.10	185.46	30.084		
10,900.00	7,806.93	7,779.93	7,779.93	79.72	156.07	-90.02	-9,698.55	756.29	5,479.84	5,294.33	185.51	29.540		
11,000.00	7,806.93	7,779.93	7,779.93	81.38	156.07	-90.02	-9,698.55	756.29	5,380.13	5,194.58	185.56	28.995		
11,100.00	7,806.93	7,779.93	7,779.93	83.05	156.07	-90.02	-9,698.55	756.29	5,280.44	5,094.83	185.61	28.449		
11,200.00	7,806.93	7,779.93	7,779.93	84.72	156.07	-90.02	-9,698.55	756.29	5,180.75	4,995.09	185.66	27.904		
11,300.00	7,806.92	7,779.92	7,779.92	86.39	156.07	-90.02	-9,698.55	756.29	5,081.08	4,895.35	185.72	27.359		
11,400.00	7,806.92	7,779.92	7,779.92	88.07	156.07	-90.02	-9,698.55	756.29	4,981.41	4,795.63	185.78	26.813		
11,500.00	7,806.92	7,779.92	7,779.92	89.75	156.07	-90.02	-9,698.55	756.29	4,881.77	4,695.92	185.85	26.267		
11,600.00	7,806.92	7,779.92	7,779.92	91.44	156.07	-90.02	-9,698.55	756.29	4,782.13	4,596.21	185.92	25.721		
11,700.00	7,806.91	7,779.91	7,779.91	93.13	156.07	-90.02	-9,698.55	756.29	4,682.52	4,496.52	186.00	25.175		
11,800.00	7,806.91	7,779.91	7,779.91	94.82	156.07	-90.02	-9,698.55	756.29	4,582.92	4,396.84	186.08	24.629		
11,900.00	7,806.91	7,779.91	7,779.91	96.52	156.07	-90.02	-9,698.55	756.29	4,483.34	4,297.17	186.17	24.082		
12,000.00	7,806.91	7,779.91	7,779.91	98.21	156.07	-90.02	-9,698.55	756.29	4,383.77	4,197.51	186.26	23.535		
12,100.00	7,806.90	7,779.90	7,779.90	99.91	156.07	-90.01	-9,698.55	756.29	4,284.23	4,097.86	186.37	22.988		
12,200.00	7,806.90	7,779.90	7,779.90	101.62	156.07	-90.01	-9,698.55	756.29	4,184.71	3,998.23	186.48	22.441		
12,300.00	7,806.90	7,779.90	7,779.90	103.32	156.07	-90.01	-9,698.55	756.29	4,085.21	3,898.61	186.60	21.893		
12,400.00	7,806.90	7,779.90	7,779.90	105.03	156.07	-90.01	-9,698.55	756.29	3,985.74	3,799.01	186.73	21.345		
12,500.00	7,806.89	7,779.89	7,779.89	106.74	156.07	-90.01	-9,698.55	756.29	3,886.29	3,699.43	186.86	20.797		
12,600.00	7,806.89	7,779.89	7,779.89	108.45	156.07	-90.01	-9,698.55	756.29	3,786.88	3,599.86	187.02	20.249		
12,700.00	7,806.89	7,779.89	7,779.89	110.17	156.07	-90.01	-9,698.55	756.29	3,687.49	3,500.31	187.18	19.700		
12,800.00	7,806.89	7,779.89	7,779.89	111.88	156.07	-90.01	-9,698.55	756.29	3,588.14	3,400.78	187.36	19.151		
12,900.00	7,806.88	7,779.88	7,779.88	113.60	156.07	-90.01	-9,698.55	756.29	3,488.83	3,301.27	187.56	18.601		
13,000.00	7,806.88	7,779.88	7,779.88	115.32	156.07	-90.01	-9,698.55	756.29	3,389.55	3,201.78	187.78	18.051		
13,100.00	7,806.88	7,779.88	7,779.88	117.04	156.07	-90.01	-9,698.55	756.29	3,290.32	3,102.31	188.01	17.501		
13,200.00	7,806.88	7,779.88	7,779.88	118.76	156.07	-90.01	-9,698.55	756.29	3,191.14	3,002.87	188.27	16.949		
13,300.00	7,806.87	7,779.87	7,779.87	120.48	156.07	-90.01	-9,698.55	756.29	3,092.02	2,903.45	188.56	16.398		
13,400.00	7,806.87	7,779.87	7,779.87	122.21	156.07	-90.01	-9,698.55	756.29	2,992.95	2,804.06	188.88	15.846		
13,500.00	7,806.87	7,779.87	7,779.87	123.94	156.07	-90.01	-9,698.55	756.29	2,893.94	2,704.70	189.23	15.293		
13,600.00	7,806.87	7,779.87	7,779.87	125.66	156.07	-90.01	-9,698.55	756.29	2,795.00	2,605.38	189.63	14.739		
13,700.00	7,806.86	7,779.86	7,779.86	127.39	156.07	-90.01	-9,698.55	756.29	2,696.15	2,506.08	190.07	14.185		
13,800.00	7,806.86	7,779.86	7,779.86	129.12	156.07	-90.01	-9,698.55	756.29	2,597.38	2,406.82	190.56	13.631		
13,900.00	7,806.86	7,779.86	7,779.86	130.85	156.06	-90.01	-9,698.55	756.29	2,498.71	2,307.60	191.11	13.075		
14,000.00	7,806.86	7,779.86	7,779.86	132.59	156.06	-90.01	-9,698.55	756.29	2,400.14	2,208.42	191.72	12.519		
14,100.00	7,806.85	7,779.85	7,779.85	134.32	156.06	-90.01	-9,698.55	756.29	2,301.71	2,109.28	192.42	11.962		

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-20-3N
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-20-3N	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	
14,200.00	7,806.85	7,779.85	7,779.85	136.06	156.06	-90.01	-9,698.55	756.29	2,203.41	2,010.20	193.21	11.404	
14,300.00	7,806.85	7,779.85	7,779.85	137.79	156.06	-90.01	-9,698.55	756.29	2,105.27	1,911.16	194.11	10.846	
14,400.00	7,806.85	7,779.85	7,779.85	139.53	156.06	-90.01	-9,698.55	756.29	2,007.32	1,812.19	195.13	10.287	
14,500.00	7,806.84	7,779.84	7,779.84	141.27	156.06	-90.01	-9,698.55	756.29	1,909.58	1,713.27	196.31	9.728	
14,600.00	7,806.84	7,779.84	7,779.84	143.00	156.06	-90.01	-9,698.55	756.29	1,812.09	1,614.44	197.65	9.168	
14,700.00	7,806.84	7,779.84	7,779.84	144.74	156.06	-90.01	-9,698.55	756.29	1,714.88	1,515.68	199.21	8.609	
14,800.00	7,806.84	7,779.84	7,779.84	146.48	156.06	-90.01	-9,698.55	756.29	1,618.02	1,417.01	201.00	8.050	
14,900.00	7,806.83	7,779.83	7,779.83	148.22	156.06	-90.01	-9,698.55	756.29	1,521.56	1,318.46	203.10	7.492	
15,000.00	7,806.83	7,779.83	7,779.83	149.97	156.06	-90.00	-9,698.55	756.29	1,425.59	1,220.04	205.55	6.936	
15,100.00	7,806.83	7,779.83	7,779.83	151.71	156.06	-90.00	-9,698.55	756.29	1,330.21	1,121.79	208.43	6.382	
15,200.00	7,806.83	7,779.83	7,779.83	153.45	156.06	-90.00	-9,698.55	756.29	1,235.57	1,023.74	211.83	5.833	
15,300.00	7,806.82	7,779.82	7,779.82	155.19	156.06	-90.00	-9,698.55	756.29	1,141.84	925.95	215.89	5.289	
15,400.00	7,806.82	7,779.82	7,779.82	156.94	156.06	-90.00	-9,698.55	756.29	1,049.26	828.53	220.74	4.753	
15,500.00	7,806.82	7,779.82	7,779.82	158.68	156.06	-90.00	-9,698.55	756.29	958.18	731.60	226.58	4.229	
15,600.00	7,806.82	7,779.82	7,779.82	160.43	156.06	-90.00	-9,698.55	756.29	869.07	635.40	233.67	3.719	
15,700.00	7,806.81	7,779.81	7,779.81	162.18	156.06	-90.00	-9,698.55	756.29	782.59	540.30	242.29	3.230	
15,800.00	7,806.81	7,779.81	7,779.81	163.92	156.06	-90.00	-9,698.55	756.29	699.72	446.93	252.79	2.768	
15,900.00	7,806.81	7,779.81	7,779.81	165.67	156.06	-90.00	-9,698.55	756.29	621.90	356.42	265.48	2.343	
16,000.00	7,806.81	7,779.81	7,779.81	167.42	156.06	-90.00	-9,698.55	756.29	551.29	270.83	280.47	1.966	
16,100.00	7,806.80	7,779.80	7,779.80	169.17	156.06	-90.00	-9,698.55	756.29	491.01	193.84	297.17	1.652	
16,200.00	7,806.80	7,779.80	7,779.80	170.91	156.06	-90.00	-9,698.55	756.29	445.25	131.65	313.60	1.420	Level 3
16,300.00	7,806.80	7,779.80	7,779.80	172.66	156.06	-90.00	-9,698.55	756.29	418.82	92.84	325.98	1.285	Level 3
16,364.19	7,806.80	7,779.80	7,779.80	173.79	156.06	-90.00	-9,698.55	756.29	413.87	84.09	329.79	1.255	Level 3, CC, ES, SF
16,400.00	7,806.80	7,779.80	7,779.80	174.41	156.06	-90.00	-9,698.55	756.29	415.42	85.23	330.19	1.258	Level 3
16,500.00	7,806.79	7,779.79	7,779.79	176.16	156.06	-90.00	-9,698.55	756.29	435.58	110.42	325.16	1.340	Level 3
16,600.00	7,806.79	7,779.79	7,779.79	177.92	156.06	-90.00	-9,698.55	756.29	476.34	162.57	313.77	1.518	
16,700.00	7,806.79	7,779.79	7,779.79	179.67	156.06	-90.00	-9,698.55	756.29	532.97	232.96	300.01	1.777	
16,800.00	7,806.79	7,779.79	7,779.79	181.42	156.06	-90.00	-9,698.55	756.29	601.02	314.43	286.59	2.097	
16,900.00	7,806.78	7,779.78	7,779.78	183.17	156.06	-90.00	-9,698.55	756.29	677.04	402.37	274.67	2.465	
17,000.00	7,806.78	7,779.78	7,779.78	184.92	156.06	-90.00	-9,698.55	756.29	758.65	494.13	264.51	2.868	
17,100.00	7,806.78	7,779.78	7,779.78	186.68	156.06	-90.00	-9,698.55	756.29	844.22	588.23	255.99	3.298	
17,200.00	7,806.78	7,779.78	7,779.78	188.43	156.06	-90.00	-9,698.55	756.29	932.67	683.81	248.86	3.748	
17,300.00	7,806.77	7,779.77	7,779.77	190.18	156.06	-90.00	-9,698.55	756.29	1,023.24	780.36	242.88	4.213	
17,400.00	7,806.77	7,779.77	7,779.77	191.94	156.06	-90.00	-9,698.55	756.29	1,115.43	877.59	237.84	4.690	
17,500.00	7,806.77	7,779.77	7,779.77	193.69	156.06	-90.00	-9,698.55	756.29	1,208.86	975.30	233.56	5.176	
17,600.00	7,806.77	7,779.77	7,779.77	195.45	156.06	-90.00	-9,698.55	756.29	1,303.27	1,073.36	229.91	5.669	
17,700.00	7,806.76	7,779.76	7,779.76	197.20	156.06	-90.00	-9,698.55	756.29	1,398.45	1,171.68	226.77	6.167	
17,800.00	7,806.76	7,779.76	7,779.76	198.96	156.06	-90.00	-9,698.55	756.29	1,494.27	1,270.22	224.05	6.669	
17,877.44	7,807.00	7,780.00	7,780.00	200.32	156.07	-89.99	-9,698.55	756.29	1,568.81	1,346.62	222.19	7.061	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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

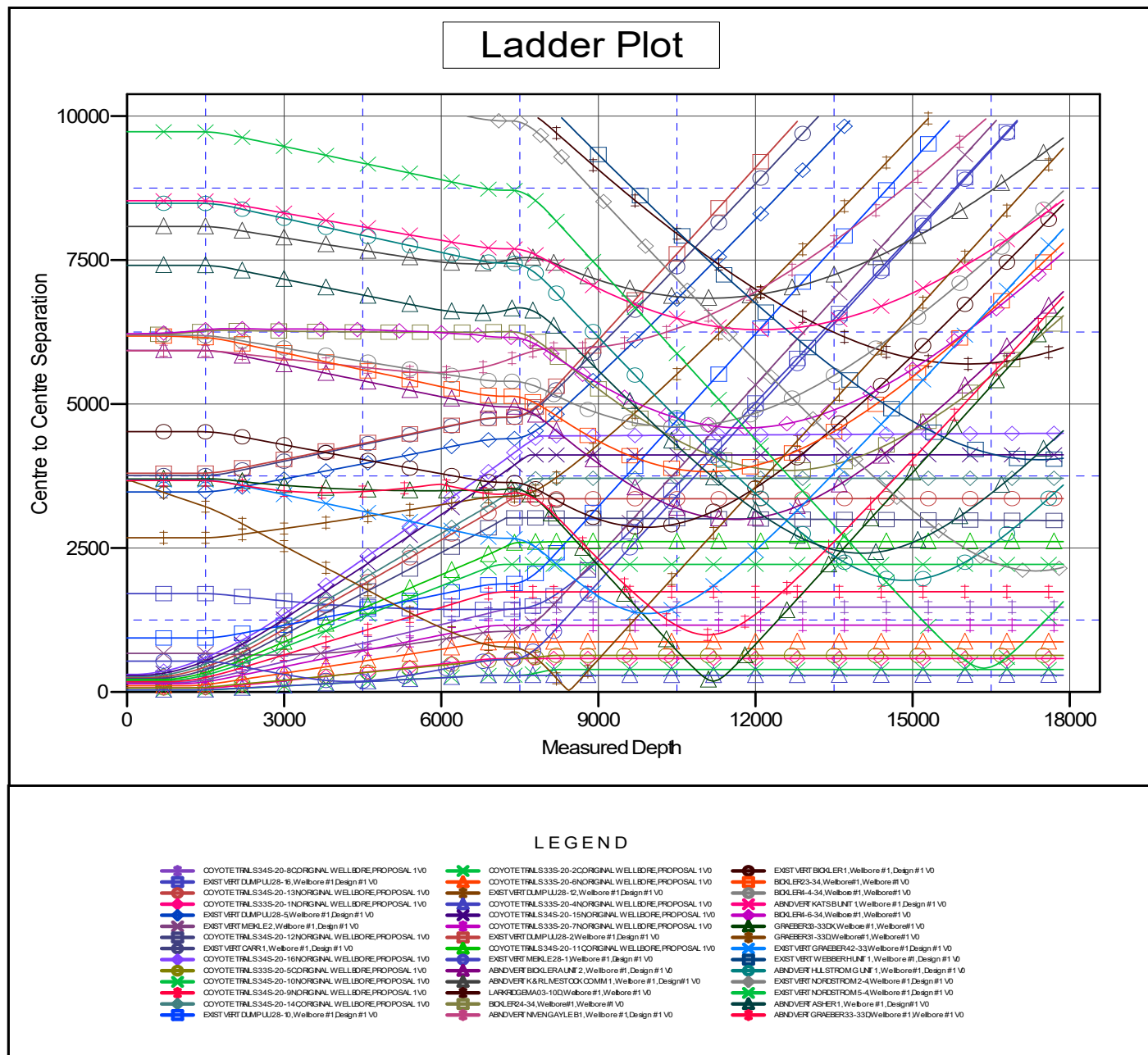
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-3N

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°



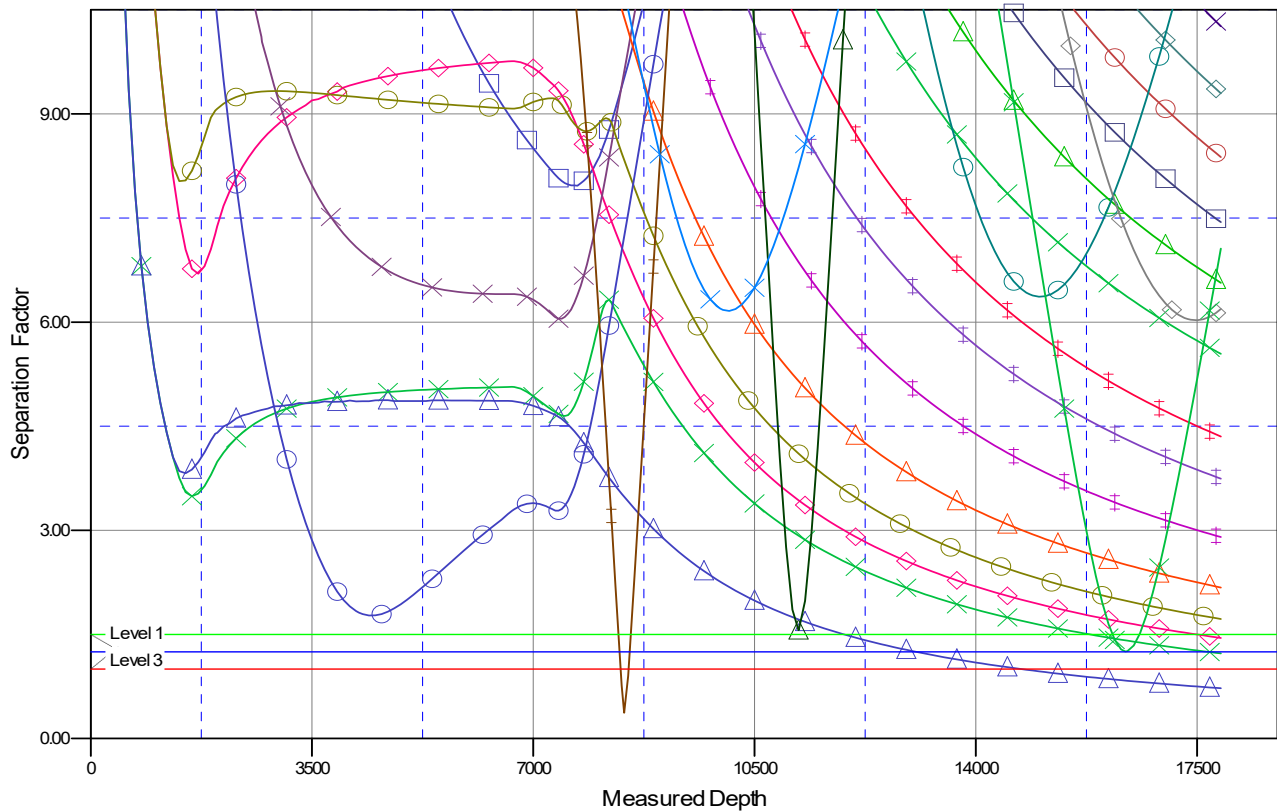
Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-3N
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-20-3N	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-20-3N
 Coordinate System is US State Plane 1983, Colorado Northern Zone
 Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

COYOTETRLS34S-20-8CORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRLS33S-20-2CORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT BOKLER1, Wellbore #1, Design #1 V0
EXIST VERT DUMPLU28-15, Wellbore #1, Design #1 V0	COYOTETRLS33S-20-6NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER23-34, Wellbore #1, Wellbore #1 V0
COYOTETRLS34S-20-13NORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT DUMPLU28-12, Wellbore #1, Design #1 V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
COYOTETRLS33S-20-1NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRLS33S-20-4NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT KATSBUNT 1, Wellbore #1, Design #1 V0
EXIST VERT DUMPLU28-5, Wellbore #1, Design #1 V0	COYOTETRLS34S-20-15NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
EXIST VERT MEKLE2, Wellbore #1, Design #1 V0	COYOTETRLS33S-20-2NORIGINAL WELLBORE,PROPOSAL 1V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
COYOTETRLS34S-20-12NORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT DUMPLU28-2, Wellbore #1, Design #1 V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
EXIST VERT CARR1, Wellbore #1, Design #1 V0	COYOTETRLS34S-20-11CORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT GRABER42-33, Wellbore #1, Design #1 V0
COYOTETRLS34S-20-16NORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT MEKLE2-1, Wellbore #1, Design #1 V0	EXIST VERT WEBBERHUNT 1, Wellbore #1, Design #1 V0
COYOTETRLS33S-20-5CORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT BOKLER4UN1 2, Wellbore #1, Design #1 V0	ABNDVERT HLLSTROMGUN1, Wellbore #1, Design #1 V0
COYOTETRLS34S-20-10NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT KARLWESTCOCKOUM1, Wellbore #1, Design #1 V0	EXIST VERT NROSTROM2-4, Wellbore #1, Design #1 V0
COYOTETRLS34S-20-9NORIGINAL WELLBORE,PROPOSAL 1V0	LARROSBEMAD3-10D, Wellbore #1, Wellbore #1 V0	EXIST VERT NROSTROM5-4, Wellbore #1, Design #1 V0
COYOTETRLS34S-20-14CORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER24-34, Wellbore #1, Wellbore #1 V0	ABNDVERT ASHER1, Wellbore #1, Design #1 V0
EXIST VERT DUMPLU28-10, Wellbore #1, Design #1 V0	ABNDVERT NIVENGAYLEB1, Wellbore #1, Design #1 V0	ABNDVERT GRABER33-33D, Wellbore #1, Wellbore #1 V0