

EXTRACTION OIL & GAS

Weld County

Sec 28-T1N-R68W

COYOTE TRAILS 33S-20-6N

ORIGINAL WELLBORE

PROPOSAL 1

Anticollision Report

29 November, 2017

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	17,973.79	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 -	1,100.00	1,100.00	179.95	172.51	24.192	CC, ES
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	17,974.53	17,871.77	1,450.69	1,050.90	3.629	SF
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	1,100.00	1,100.00	143.96	136.52	19.354	CC, ES
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	17,973.82	18,124.67	1,189.63	796.73	3.028	SF
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	1,100.00	1,100.00	107.97	100.53	14.515	CC, ES
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	17,973.82	17,877.44	870.35	470.47	2.177	SF
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	1,100.00	1,100.00	71.98	64.54	9.677	CC, ES
COYOTE TRAILS 33S-20-4N - ORIGINAL WELLBORE -	17,974.53	17,903.72	580.32	180.32	1.451	Level 3, SF
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	1,100.00	1,100.00	35.99	28.55	4.839	CC, ES
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	17,974.53	18,187.67	390.37	68.77	1.214	Level 2, SF
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	1,000.00	1,000.00	35.99	29.27	5.354	CC
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	17,974.53	18,028.67	290.01	-109.15	0.727	Level 1, ES, SF
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	700.00	700.00	89.97	85.40	19.686	CC, ES
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	17,974.53	18,322.49	1,347.26	947.34	3.369	SF
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	600.00	600.00	107.97	104.12	28.018	CC, ES
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	17,974.53	18,707.76	1,747.20	1,352.84	4.430	SF
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	500.00	500.00	125.96	122.83	40.159	CC, ES
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	17,974.53	18,668.18	2,107.59	1,707.83	5.272	SF
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	400.00	400.00	143.96	141.54	59.494	CC, ES
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	17,974.53	18,812.14	2,487.79	2,087.33	6.212	SF
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	300.00	300.00	161.95	160.25	95.113	CC, ES
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	17,974.53	19,185.03	2,844.81	2,446.87	7.149	SF
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	200.00	200.00	179.95	178.96	182.541	CC, ES
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	17,973.82	19,200.88	3,247.97	2,846.96	8.099	SF
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	100.00	100.00	197.94	197.68	736.251	CC, ES
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	17,974.53	19,359.43	3,622.97	3,221.39	9.022	SF
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	900.00	900.00	53.98	47.98	8.991	CC, ES
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	17,936.62	19,679.97	635.67	247.17	1.636	SF
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	800.00	800.00	71.98	66.69	13.613	CC, ES
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	17,900.00	24,469.00	869.88	361.25	1.710	SF
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,100.00	1,100.00	3,817.05	3,791.59	149.921	CC
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,200.00	1,200.02	3,818.75	3,790.93	137.276	ES
EXIST VERT CARR 1 - Wellbore #1 - Design #1	7,850.00	7,625.34	5,357.27	5,175.39	29.455	SF
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,100.00	1,119.00	907.27	881.49	35.189	CC
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,200.00	1,218.98	908.13	879.99	32.272	ES
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	7,600.00	7,430.80	2,074.08	1,895.82	11.635	SF
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,100.00	1,108.00	2,779.77	2,754.17	108.621	CC

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 28-T1N-R68W						
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,200.00	1,208.02	2,781.36	2,753.41	99.517	ES
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	7,950.00	7,684.07	4,249.77	4,065.21	23.026	SF
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,419.21	7,250.00	686.22	504.44	3.775	CC
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,450.00	7,280.77	686.81	504.33	3.764	ES
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,500.00	7,330.52	690.31	506.66	3.759	SF
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,100.00	1,072.00	3,788.05	3,763.19	152.337	CC
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,200.00	1,171.98	3,789.12	3,761.90	139.185	ES
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	7,750.00	7,518.72	4,900.58	4,717.83	26.816	SF
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,100.00	1,123.00	3,555.21	3,529.31	137.302	CC
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,200.00	1,222.98	3,556.95	3,528.70	125.910	ES
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	7,900.00	7,683.33	5,128.41	4,945.26	28.001	SF
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,073.75	3,024.62	375.64	302.30	5.122	CC
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,200.00	3,146.37	377.12	300.65	4.932	ES
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,700.00	3,628.55	410.55	322.05	4.639	SF
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	3,177.11	3,104.29	173.24	97.74	2.294	CC
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	3,200.00	3,126.37	173.35	97.27	2.279	ES
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	3,300.00	3,222.81	176.27	97.76	2.245	SF
Sec 33-T1N-R68W						
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,175.27	7,178.00	1,294.46	1,213.59	16.006	CC, ES
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,200.00	7,178.00	1,294.70	1,213.72	15.988	SF
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,043.94	7,768.96	492.91	272.90	2.240	CC, ES
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,100.00	7,768.96	496.09	273.81	2.232	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,400.00	8,096.58	849.68	766.36	10.198	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,500.00	8,097.07	840.54	758.61	10.259	ES
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,527.22	8,097.21	840.10	758.63	10.312	CC
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,280.38	8,083.84	678.72	558.68	5.654	CC, ES
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,300.00	8,083.13	679.01	558.74	5.646	SF

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	11,693.56	7,746.92	2,125.59	1,879.02	8.621	CC
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	11,700.00	7,746.92	2,125.60	1,878.87	8.615	ES
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	12,000.00	7,746.91	2,147.57	1,894.42	8.484	SF
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,198.64	5,503.00	6,021.68	5,839.86	33.120	CC
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,300.00	5,503.00	6,022.53	5,838.90	32.797	ES
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	13,500.00	5,503.00	6,446.46	6,228.65	29.597	SF
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,185.51	7,702.91	5,420.02	5,166.03	21.340	CC
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,300.00	7,702.90	5,421.23	5,164.98	21.156	ES
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	13,700.00	7,702.87	5,627.64	5,347.64	20.099	SF
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	6,459.30	5,145.00	4,794.65	4,667.25	37.634	CC, ES
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	11,100.00	5,145.00	5,799.54	5,633.89	35.011	SF
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,176.61	7,758.97	2,955.74	2,844.59	26.594	CC
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,200.00	7,759.14	2,955.83	2,844.19	26.478	ES
BICKLER 23-34 - Wellbore #1 - Wellbore #1	12,100.00	7,765.79	3,096.61	2,969.83	24.426	SF
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,684.69	7,978.47	2,975.37	2,824.03	19.660	CC
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,700.00	7,978.32	2,975.41	2,823.76	19.620	ES
BICKLER 24-34 - Wellbore #1 - Wellbore #1	13,300.00	7,971.93	3,038.32	2,877.29	18.869	SF
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,585.31	7,660.73	3,733.96	3,636.00	38.117	CC
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,700.00	7,662.85	3,735.72	3,635.45	37.257	ES
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	12,100.00	7,684.83	4,029.41	3,906.71	32.841	SF
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,863.41	7,777.90	3,714.00	3,586.50	29.130	CC
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,900.00	7,777.85	3,714.18	3,585.90	28.954	ES
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	13,100.00	7,776.10	3,914.45	3,766.42	26.445	SF
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	9,997.04	7,809.96	1,990.72	1,770.60	9.044	CC
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,000.00	7,809.96	1,990.72	1,770.53	9.041	ES
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,300.00	7,809.95	2,013.64	1,787.04	8.886	SF
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,148.74	8,037.00	4,826.25	4,628.78	24.440	CC
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,200.00	8,037.15	4,826.52	4,628.00	24.313	ES
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	17,500.00	8,041.07	5,011.84	4,792.49	22.848	SF
Sec 3-T1S-R68W						
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,507.71	7,771.78	3,162.98	2,815.43	9.101	CC
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,600.00	7,771.78	3,164.33	2,814.75	9.052	ES
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,900.00	7,771.77	3,187.22	2,832.19	8.977	SF
Sec 4-T1N-R68W						
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,124.34	5,625.00	2,884.14	2,717.87	17.345	CC, ES
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,500.00	5,625.00	2,908.51	2,739.85	17.245	SF
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,940.00	7,753.84	1,068.20	765.83	3.533	CC
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	15,000.00	7,753.84	1,069.89	765.76	3.518	ES, SF
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,441.70	7,815.78	2,972.86	2,625.57	8.560	CC
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,500.00	7,815.78	2,973.43	2,625.49	8.546	ES
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,600.00	7,815.78	2,977.07	2,628.17	8.533	SF
EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #	16,453.63	7,779.80	456.59	127.34	1.387	Level 3, CC, ES, SF

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)	
0.00	0.00	0.00	0.00	0.00	0.00	-89.68	0.99	-179.95	179.95			

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.99	-179.95	179.95	179.68	0.27	669.317		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.99	-179.95	179.95	178.96	0.99	182.541		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.99	-179.95	179.95	178.25	1.70	105.682		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.99	-179.95	179.95	177.53	2.42	74.369		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.99	-179.95	179.95	176.81	3.14	57.370		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.99	-179.95	179.95	176.10	3.85	46.697		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.99	-179.95	179.95	175.38	4.57	39.372		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.99	-179.95	179.95	174.66	5.29	34.033		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.99	-179.95	179.95	173.94	6.00	29.969		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.99	-179.95	179.95	173.23	6.72	26.773		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.68	0.99	-179.95	179.95	172.51	7.44	24.192	CC, ES	
1,200.00	1,199.98	1,200.02	1,199.98	4.06	4.08	137.49	0.99	-179.95	181.23	173.09	8.14	22.264		
1,300.00	1,299.84	1,300.16	1,299.84	4.40	4.44	138.53	0.99	-179.95	185.12	176.29	8.83	20.961		
1,400.00	1,399.45	1,400.55	1,399.45	4.74	4.80	140.17	0.99	-179.95	191.75	182.22	9.53	20.120		
1,500.00	1,498.70	1,501.30	1,498.70	5.09	5.16	142.27	0.99	-179.95	201.28	191.04	10.24	19.664		
1,600.00	1,597.47	1,597.47	1,597.47	5.46	5.50	144.67	0.99	-179.95	213.91	202.97	10.93	19.568		
1,700.00	1,695.62	1,695.43	1,695.41	5.85	5.84	146.83	-0.56	-180.28	229.85	218.23	11.62	19.777		
1,800.00	1,793.06	1,793.21	1,793.07	6.27	6.16	148.30	-5.37	-181.32	249.05	236.74	12.31	20.239		
1,867.07	1,857.94	1,858.63	1,858.28	6.57	6.37	148.95	-10.41	-182.41	263.64	250.87	12.77	20.643		
1,900.00	1,889.69	1,890.72	1,890.22	6.72	6.48	149.23	-13.41	-183.06	271.13	258.13	13.00	20.854		
2,000.00	1,986.13	1,988.31	1,987.12	7.19	6.81	149.57	-24.69	-185.50	293.86	280.15	13.71	21.434		
2,100.00	2,082.57	2,085.93	2,083.60	7.68	7.15	149.24	-39.19	-188.64	316.51	302.07	14.44	21.916		
2,200.00	2,179.00	2,183.36	2,179.33	8.18	7.50	148.38	-56.86	-192.47	339.14	323.94	15.20	22.313		
2,300.00	2,275.44	2,280.55	2,274.49	8.69	7.87	147.34	-76.18	-196.65	361.85	345.86	15.98	22.639		
2,400.00	2,371.88	2,377.74	2,369.65	9.21	8.25	146.43	-95.51	-200.83	384.66	367.87	16.79	22.912		
2,500.00	2,468.31	2,474.93	2,464.81	9.74	8.64	145.61	-114.84	-205.01	407.55	389.94	17.61	23.142		
2,600.00	2,564.75	2,572.12	2,559.96	10.28	9.05	144.89	-134.17	-209.20	430.51	412.06	18.45	23.336		
2,700.00	2,661.19	2,669.31	2,655.12	10.82	9.46	144.23	-153.49	-213.38	453.53	434.23	19.30	23.499		
2,800.00	2,757.62	2,766.50	2,750.28	11.37	9.87	143.64	-172.82	-217.56	476.61	456.44	20.16	23.636		
2,900.00	2,854.06	2,863.69	2,845.43	11.92	10.30	143.11	-192.15	-221.74	499.72	478.68	21.04	23.753		
3,000.00	2,950.50	2,960.88	2,940.59	12.47	10.72	142.62	-211.48	-225.93	522.88	500.95	21.92	23.851		
3,100.00	3,046.93	3,058.07	3,035.75	13.03	11.16	142.17	-230.81	-230.11	546.06	523.25	22.81	23.935		
3,200.00	3,143.37	3,155.26	3,130.90	13.59	11.59	141.76	-250.13	-234.29	569.28	545.56	23.71	24.006		
3,300.00	3,239.81	3,252.45	3,226.06	14.15	12.04	141.38	-269.46	-238.47	592.52	567.90	24.62	24.067		
3,400.00	3,336.24	3,349.64	3,321.22	14.72	12.48	141.03	-288.79	-242.66	615.78	590.25	25.53	24.119		
3,500.00	3,432.68	3,446.83	3,416.37	15.28	12.93	140.71	-308.12	-246.84	639.07	612.62	26.45	24.162		
3,600.00	3,529.12	3,544.02	3,511.53	15.85	13.38	140.40	-327.45	-251.02	662.37	635.00	27.37	24.200		
3,700.00	3,625.55	3,641.21	3,606.69	16.42	13.83	140.12	-346.77	-255.20	685.69	657.39	28.30	24.232		
3,800.00	3,721.99	3,738.40	3,701.84	16.99	14.29	139.86	-366.10	-259.39	709.02	679.80	29.23	24.259		
3,900.00	3,818.43	3,835.59	3,797.00	17.56	14.75	139.61	-385.43	-263.57	732.37	702.21	30.16	24.282		
4,000.00	3,914.86	3,932.78	3,892.16	18.14	15.20	139.38	-404.76	-267.75	755.73	724.63	31.10	24.301		
4,100.00	4,011.30	4,029.97	3,987.31	18.71	15.67	139.17	-424.08	-271.94	779.10	747.06	32.04	24.318		
4,200.00	4,107.74	4,127.16	4,082.47	19.29	16.13	138.96	-443.41	-276.12	802.48	769.50	32.98	24.332		
4,300.00	4,204.17	4,224.34	4,177.63	19.86	16.59	138.77	-462.74	-280.30	825.87	791.94	33.93	24.343		
4,400.00	4,300.61	4,321.53	4,272.78	20.44	17.06	138.59	-482.07	-284.48	849.26	814.39	34.87	24.353		
4,500.00	4,397.05	4,418.72	4,367.94	21.02	17.52	138.41	-501.40	-288.67	872.67	836.84	35.82	24.360		
4,600.00	4,493.48	4,515.91	4,463.10	21.59	17.99	138.25	-520.72	-292.85	896.08	859.30	36.77	24.367		
4,700.00	4,589.92	4,613.10	4,558.25	22.17	18.46	138.09	-540.05	-297.03	919.50	881.77	37.73	24.372		
4,800.00	4,686.36	4,710.29	4,653.41	22.75	18.93	137.95	-559.38	-301.21	942.92	904.24	38.68	24.376		
4,900.00	4,782.79	4,807.48	4,748.57	23.33	19.40	137.81	-578.71	-305.40	966.35	926.71	39.64	24.379		
5,000.00	4,879.23	4,904.67	4,843.72	23.91	19.87	137.67	-598.04	-309.58	989.79	949.19	40.60	24.381		
5,100.00	4,975.67	5,001.86	4,938.88	24.49	20.34	137.55	-617.36	-313.76	1,013.23	971.67	41.56	24.382		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,200.00	5,072.10	5,100.95	5,034.04	25.07	20.83	137.42	-636.69	-317.94	1,036.67	994.14	42.53	24.377		
5,300.00	5,168.54	5,203.76	5,129.19	25.66	21.33	137.31	-656.02	-322.13	1,060.12	1,016.60	43.52	24.362		
5,400.00	5,264.98	5,306.57	5,224.35	26.24	21.83	137.20	-675.35	-326.31	1,083.57	1,039.07	44.51	24.347		
5,500.00	5,361.41	5,409.38	5,319.51	26.82	22.33	137.09	-694.68	-330.49	1,107.03	1,061.53	45.50	24.332		
5,600.00	5,457.85	5,487.81	5,414.66	27.40	22.71	136.99	-714.00	-334.68	1,130.49	1,084.12	46.37	24.379		
5,700.00	5,554.29	5,585.00	5,509.82	27.99	23.19	136.89	-733.33	-338.86	1,153.95	1,106.62	47.34	24.378		
5,800.00	5,650.72	5,682.19	5,604.98	28.57	23.67	136.80	-752.66	-343.04	1,177.42	1,129.12	48.30	24.375		
5,900.00	5,747.16	5,779.38	5,700.13	29.15	24.14	136.70	-771.99	-347.22	1,200.89	1,151.62	49.27	24.373		
6,000.00	5,843.60	5,876.57	5,795.29	29.74	24.62	136.62	-791.31	-351.41	1,224.36	1,174.12	50.24	24.371		
6,100.00	5,940.03	5,973.76	5,890.45	30.32	25.10	136.53	-810.64	-355.59	1,247.83	1,196.63	51.21	24.368		
6,200.00	6,036.47	6,070.95	5,985.61	30.90	25.58	136.45	-829.97	-359.77	1,271.31	1,219.13	52.18	24.365		
6,300.00	6,132.91	6,168.14	6,080.76	31.49	26.05	136.38	-849.30	-363.95	1,294.79	1,241.64	53.15	24.362		
6,400.00	6,229.34	6,265.33	6,175.92	32.07	26.53	136.30	-868.63	-368.14	1,318.27	1,264.15	54.12	24.359		
6,500.00	6,325.78	6,362.52	6,271.08	32.66	27.01	136.23	-887.95	-372.32	1,341.75	1,286.66	55.09	24.355		
6,552.14	6,376.06	6,413.20	6,320.69	32.96	27.26	136.19	-898.03	-374.50	1,354.00	1,298.40	55.60	24.354		
6,600.00	6,422.32	6,459.77	6,366.29	33.24	27.49	136.30	-907.29	-376.50	1,364.96	1,308.90	56.06	24.348		
6,700.00	6,519.60	6,557.44	6,461.92	33.78	27.97	136.43	-926.72	-380.71	1,386.04	1,329.02	57.02	24.308		
6,800.00	6,617.63	6,656.28	6,558.69	34.27	28.46	136.43	-946.36	-384.96	1,404.67	1,346.69	57.97	24.230		
6,900.00	6,716.28	6,766.28	6,666.84	34.72	28.98	136.35	-965.93	-389.19	1,420.38	1,361.41	58.97	24.085		
7,000.00	6,815.45	6,877.26	6,776.67	35.13	29.46	136.29	-981.54	-392.57	1,432.80	1,372.90	59.90	23.919		
7,100.00	6,915.00	6,989.02	6,887.79	35.49	29.91	136.25	-993.04	-395.06	1,441.90	1,381.14	60.76	23.732		
7,200.00	7,014.82	7,101.31	6,999.83	35.81	30.31	136.22	-1,000.33	-396.64	1,447.63	1,386.09	61.53	23.526		
7,300.00	7,114.79	7,213.89	7,112.36	36.09	30.67	136.21	-1,003.32	-397.29	1,449.97	1,387.75	62.22	23.303		
7,319.21	7,134.00	7,235.53	7,134.00	36.14	30.73	-90.61	-1,003.40	-397.30	1,450.03	1,387.69	62.34	23.260		
7,400.00	7,214.79	7,316.32	7,214.79	36.33	30.95	-90.61	-1,003.40	-397.30	1,450.03	1,387.27	62.77	23.101		
7,419.21	7,234.00	7,335.53	7,234.00	36.37	31.00	-90.61	-1,003.40	-397.30	1,450.03	1,387.16	62.87	23.064		
7,420.57	7,235.36	7,336.89	7,235.36	36.38	31.00	89.74	-1,003.40	-397.30	1,450.03	1,387.16	62.88	23.061		
7,450.00	7,264.77	7,365.95	7,264.41	36.46	31.10	89.74	-1,004.21	-397.30	1,450.03	1,386.97	63.06	22.994		
7,500.00	7,314.52	7,415.37	7,313.58	36.62	31.29	89.74	-1,008.96	-397.27	1,450.04	1,386.60	63.43	22.860		
7,550.00	7,363.66	7,464.79	7,362.17	36.81	31.52	89.74	-1,017.92	-397.22	1,450.04	1,386.16	63.88	22.700		
7,600.00	7,411.80	7,514.22	7,409.81	37.03	31.79	89.75	-1,031.01	-397.14	1,450.04	1,385.64	64.40	22.517		
7,650.00	7,458.60	7,563.67	7,456.16	37.29	32.09	89.76	-1,048.22	-397.04	1,450.04	1,385.05	64.99	22.311		
7,700.00	7,503.68	7,613.13	7,500.87	37.57	32.43	89.77	-1,069.35	-396.91	1,450.04	1,384.39	65.65	22.087		
7,750.00	7,546.72	7,662.62	7,543.62	37.89	32.80	89.78	-1,094.26	-396.77	1,450.04	1,383.66	66.38	21.844		
7,800.00	7,587.37	7,712.14	7,584.08	38.23	33.21	89.79	-1,122.78	-396.60	1,450.04	1,382.87	67.17	21.586		
7,850.00	7,625.34	7,761.69	7,621.95	38.59	33.64	89.81	-1,154.71	-396.41	1,450.04	1,382.01	68.03	21.315		
7,900.00	7,660.33	7,811.27	7,656.94	38.99	34.11	89.82	-1,189.81	-396.20	1,450.04	1,381.10	68.95	21.032		
7,950.00	7,692.07	7,860.89	7,688.79	39.40	34.61	89.84	-1,227.84	-395.98	1,450.05	1,380.13	69.92	20.739		
8,000.00	7,720.33	7,910.55	7,717.25	39.85	35.13	89.86	-1,268.51	-395.74	1,450.05	1,379.11	70.94	20.440		
8,050.00	7,744.88	7,960.26	7,742.11	40.31	35.68	89.88	-1,311.54	-395.49	1,450.05	1,378.04	72.01	20.136		
8,100.00	7,765.55	8,010.01	7,763.16	40.79	36.24	89.90	-1,356.59	-395.22	1,450.06	1,376.93	73.13	19.830		
8,150.00	7,782.18	8,059.80	7,780.24	41.30	36.83	89.92	-1,403.35	-394.94	1,450.06	1,375.79	74.27	19.523		
8,200.00	7,794.63	8,109.65	7,793.21	41.81	37.43	89.94	-1,451.46	-394.66	1,450.06	1,374.61	75.45	19.219		
8,250.00	7,802.82	8,159.54	7,801.96	42.34	38.04	89.97	-1,500.57	-394.37	1,450.07	1,373.42	76.65	18.918		
8,300.00	7,806.68	8,209.49	7,806.41	42.88	38.66	89.99	-1,550.30	-394.08	1,450.07	1,372.22	77.86	18.625		
8,319.29	7,807.00	8,228.78	7,806.96	43.09	38.90	90.00	-1,569.58	-393.96	1,450.08	1,371.75	78.33	18.513		
8,400.00	7,807.00	8,309.48	7,807.00	43.98	39.91	90.00	-1,650.28	-393.49	1,450.08	1,369.77	80.31	18.056		
8,500.00	7,807.00	8,409.48	7,807.00	45.12	41.21	90.00	-1,750.28	-392.90	1,450.09	1,367.25	82.84	17.504		
8,600.00	7,806.99	8,509.48	7,806.99	46.31	42.53	90.00	-1,850.28	-392.31	1,450.10	1,364.66	85.45	16.971		
8,700.00	7,806.99	8,609.48	7,806.99	47.53	43.89	90.00	-1,950.28	-391.72	1,450.11	1,362.00	88.12	16.456		
8,800.00	7,806.99	8,709.48	7,806.99	48.78	45.27	90.00	-2,050.27	-391.13	1,450.12	1,359.28	90.85	15.962		
8,900.00	7,806.99	8,809.48	7,806.99	50.07	46.69	90.00	-2,150.27	-390.54	1,450.13	1,356.50	93.63	15.487		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	8,909.48	7,806.98	51.38	48.12	90.00	-2,250.27	-389.95	1,450.14	1,353.68	96.47	15.032		
9,100.00	7,806.98	9,009.48	7,806.98	52.72	49.58	90.00	-2,350.27	-389.36	1,450.15	1,350.81	99.35	14.597		
9,200.00	7,806.98	9,109.48	7,806.98	54.09	51.06	90.00	-2,450.27	-388.77	1,450.16	1,347.89	102.27	14.180		
9,300.00	7,806.98	9,209.48	7,806.98	55.48	52.56	90.00	-2,550.27	-388.18	1,450.17	1,344.94	105.23	13.781		
9,400.00	7,806.97	9,309.48	7,806.97	56.89	54.07	90.00	-2,650.26	-387.59	1,450.18	1,341.96	108.23	13.399		
9,500.00	7,806.97	9,409.48	7,806.97	58.32	55.60	90.00	-2,750.26	-387.00	1,450.19	1,338.94	111.26	13.035		
9,600.00	7,806.97	9,509.48	7,806.97	59.77	57.14	90.00	-2,850.26	-386.41	1,450.20	1,335.89	114.31	12.686		
9,700.00	7,806.97	9,609.48	7,806.97	61.23	58.69	90.00	-2,950.26	-385.82	1,450.21	1,332.81	117.40	12.353		
9,800.00	7,806.96	9,709.48	7,806.97	62.71	60.26	90.00	-3,050.26	-385.23	1,450.22	1,329.71	120.51	12.034		
9,900.00	7,806.96	9,809.48	7,806.96	64.21	61.84	90.00	-3,150.26	-384.64	1,450.23	1,326.59	123.64	11.729		
10,000.00	7,806.96	9,909.48	7,806.96	65.72	63.43	90.00	-3,250.25	-384.05	1,450.24	1,323.44	126.80	11.437		
10,100.00	7,806.96	10,009.48	7,806.96	67.24	65.03	90.00	-3,350.25	-383.46	1,450.25	1,320.28	129.98	11.158		
10,200.00	7,806.95	10,109.48	7,806.96	68.78	66.64	90.00	-3,450.25	-382.87	1,450.26	1,317.09	133.17	10.890		
10,300.00	7,806.95	10,209.48	7,806.95	70.32	68.25	90.00	-3,550.25	-382.28	1,450.27	1,313.89	136.38	10.634		
10,400.00	7,806.95	10,309.48	7,806.95	71.88	69.87	90.00	-3,650.25	-381.69	1,450.28	1,310.67	139.61	10.388		
10,500.00	7,806.95	10,409.48	7,806.95	73.45	71.50	90.00	-3,750.24	-381.10	1,450.29	1,307.44	142.86	10.152		
10,600.00	7,806.95	10,509.48	7,806.95	75.02	73.14	90.00	-3,850.24	-380.52	1,450.30	1,304.19	146.11	9.926		
10,700.00	7,806.94	10,609.48	7,806.94	76.61	74.79	90.00	-3,950.24	-379.93	1,450.31	1,300.93	149.39	9.709		
10,800.00	7,806.94	10,709.48	7,806.94	78.20	76.43	90.00	-4,050.24	-379.34	1,450.32	1,297.65	152.67	9.500		
10,900.00	7,806.94	10,809.48	7,806.94	79.80	78.09	90.00	-4,150.24	-378.75	1,450.33	1,294.37	155.96	9.299		
11,000.00	7,806.94	10,909.48	7,806.94	81.41	79.75	90.00	-4,250.24	-378.16	1,450.34	1,291.07	159.27	9.106		
11,100.00	7,806.93	11,009.48	7,806.93	83.02	81.41	90.00	-4,350.23	-377.57	1,450.35	1,287.77	162.59	8.921		
11,200.00	7,806.93	11,109.48	7,806.93	84.64	83.08	90.00	-4,450.23	-376.98	1,450.36	1,284.45	165.91	8.742		
11,300.00	7,806.93	11,209.48	7,806.93	86.27	84.75	90.00	-4,550.23	-376.39	1,450.37	1,281.13	169.24	8.570		
11,400.00	7,806.93	11,309.48	7,806.93	87.90	86.43	90.00	-4,650.23	-375.80	1,450.38	1,277.80	172.59	8.404		
11,500.00	7,806.92	11,409.48	7,806.93	89.54	88.11	90.00	-4,750.23	-375.21	1,450.39	1,274.45	175.94	8.244		
11,600.00	7,806.92	11,509.48	7,806.92	91.18	89.80	90.00	-4,850.23	-374.62	1,450.40	1,271.11	179.30	8.089		
11,700.00	7,806.92	11,609.48	7,806.92	92.83	91.48	90.00	-4,950.22	-374.03	1,450.41	1,267.75	182.66	7.940		
11,800.00	7,806.92	11,709.48	7,806.92	94.48	93.18	90.00	-5,050.22	-373.44	1,450.42	1,264.39	186.03	7.797		
11,900.00	7,806.91	11,809.48	7,806.92	96.14	94.87	90.00	-5,150.22	-372.85	1,450.43	1,261.02	189.41	7.658		
12,000.00	7,806.91	11,909.48	7,806.91	97.80	96.57	90.00	-5,250.22	-372.26	1,450.44	1,257.65	192.80	7.523		
12,100.00	7,806.91	12,009.48	7,806.91	99.46	98.27	90.00	-5,350.22	-371.67	1,450.45	1,254.27	196.19	7.393		
12,200.00	7,806.91	12,109.48	7,806.91	101.13	99.97	90.00	-5,450.22	-371.08	1,450.46	1,250.88	199.58	7.267		
12,300.00	7,806.90	12,209.48	7,806.91	102.80	101.67	90.00	-5,550.21	-370.49	1,450.47	1,247.49	202.98	7.146		
12,400.00	7,806.90	12,309.48	7,806.90	104.47	103.38	90.00	-5,650.21	-369.90	1,450.48	1,244.09	206.39	7.028		
12,500.00	7,806.90	12,409.48	7,806.90	106.15	105.09	90.00	-5,750.21	-369.31	1,450.49	1,240.69	209.80	6.914		
12,600.00	7,806.90	12,509.48	7,806.90	107.83	106.80	90.00	-5,850.21	-368.72	1,450.50	1,237.29	213.22	6.803		
12,700.00	7,806.89	12,609.48	7,806.90	109.52	108.51	90.00	-5,950.21	-368.13	1,450.51	1,233.88	216.63	6.696		
12,800.00	7,806.89	12,709.48	7,806.90	111.20	110.23	90.00	-6,050.21	-367.54	1,450.52	1,230.46	220.06	6.592		
12,900.00	7,806.89	12,809.48	7,806.89	112.89	111.94	90.00	-6,150.20	-366.95	1,450.53	1,227.05	223.48	6.491		
13,000.00	7,806.89	12,909.48	7,806.89	114.59	113.66	90.00	-6,250.20	-366.36	1,450.54	1,223.63	226.92	6.392		
13,100.00	7,806.88	13,009.48	7,806.89	116.28	115.38	90.00	-6,350.20	-365.77	1,450.55	1,220.20	230.35	6.297		
13,200.00	7,806.88	13,109.48	7,806.89	117.98	117.10	90.00	-6,450.20	-365.18	1,450.56	1,216.77	233.79	6.205		
13,300.00	7,806.88	13,209.48	7,806.88	119.68	118.83	90.00	-6,550.20	-364.59	1,450.57	1,213.34	237.23	6.115		
13,400.00	7,806.88	13,309.48	7,806.88	121.38	120.55	90.00	-6,650.19	-364.00	1,450.58	1,209.91	240.67	6.027		
13,500.00	7,806.88	13,409.48	7,806.88	123.08	122.28	90.00	-6,750.19	-363.41	1,450.59	1,206.47	244.12	5.942		
13,600.00	7,806.87	13,509.48	7,806.88	124.79	124.01	90.00	-6,850.19	-362.82	1,450.60	1,203.03	247.57	5.859		
13,700.00	7,806.87	13,609.48	7,806.87	126.49	125.74	90.00	-6,950.19	-362.23	1,450.61	1,199.59	251.02	5.779		
13,800.00	7,806.87	13,709.48	7,806.87	128.20	127.47	90.00	-7,050.19	-361.64	1,450.62	1,196.15	254.48	5.700		
13,900.00	7,806.87	13,809.48	7,806.87	129.91	129.20	90.00	-7,150.19	-361.06	1,450.63	1,192.70	257.93	5.624		
14,000.00	7,806.86	13,909.48	7,806.87	131.62	130.93	90.00	-7,250.18	-360.47	1,450.64	1,189.25	261.39	5.550		
14,100.00	7,806.86	14,009.48	7,806.86	133.34	132.66	90.00	-7,350.18	-359.88	1,450.65	1,185.80	264.86	5.477		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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							Warning			
Measured Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Between	Between	Minimum	Separation					
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor					
14,200.00	7,806.86	14,109.48	7,806.86	135.05	134.40	90.00	-7,450.18	-359.29	1,450.66	1,182.34	268.32	5.406					
14,300.00	7,806.86	14,209.48	7,806.86	136.77	136.13	90.00	-7,550.18	-358.70	1,450.67	1,178.89	271.79	5.338					
14,400.00	7,806.85	14,309.48	7,806.86	138.49	137.87	90.00	-7,650.18	-358.11	1,450.68	1,175.43	275.25	5.270					
14,500.00	7,806.85	14,409.48	7,806.86	140.21	139.61	90.00	-7,750.18	-357.52	1,450.69	1,171.97	278.73	5.205					
14,600.00	7,806.85	14,509.48	7,806.85	141.93	141.34	90.00	-7,850.17	-356.93	1,450.70	1,168.50	282.20	5.141					
14,700.00	7,806.85	14,609.48	7,806.85	143.65	143.08	90.00	-7,950.17	-356.34	1,450.71	1,165.04	285.67	5.078					
14,800.00	7,806.84	14,709.48	7,806.85	145.37	144.82	90.00	-8,050.17	-355.75	1,450.72	1,161.57	289.15	5.017					
14,900.00	7,806.84	14,809.48	7,806.85	147.10	146.56	90.00	-8,150.17	-355.16	1,450.73	1,158.11	292.63	4.958					
15,000.00	7,806.84	14,909.48	7,806.84	148.83	148.31	90.00	-8,250.17	-354.57	1,450.74	1,154.64	296.10	4.899					
15,100.00	7,806.84	15,009.48	7,806.84	150.55	150.05	90.00	-8,350.17	-353.98	1,450.75	1,151.17	299.59	4.843					
15,200.00	7,806.83	15,109.48	7,806.84	152.28	151.79	90.00	-8,450.16	-353.39	1,450.76	1,147.69	303.07	4.787					
15,300.00	7,806.83	15,209.48	7,806.84	154.01	153.53	90.00	-8,550.16	-352.80	1,450.77	1,144.22	306.55	4.733					
15,400.00	7,806.83	15,309.48	7,806.83	155.74	155.28	90.00	-8,650.16	-352.21	1,450.78	1,140.74	310.04	4.679					
15,500.00	7,806.83	15,409.48	7,806.83	157.47	157.02	90.00	-8,750.16	-351.62	1,450.79	1,137.27	313.52	4.627					
15,600.00	7,806.82	15,509.48	7,806.83	159.20	158.77	90.00	-8,850.16	-351.03	1,450.80	1,133.79	317.01	4.576					
15,700.00	7,806.82	15,609.48	7,806.83	160.93	160.52	90.00	-8,950.15	-350.44	1,450.81	1,130.31	320.50	4.527					
15,800.00	7,806.82	15,709.48	7,806.82	162.67	162.26	90.00	-9,050.15	-349.85	1,450.82	1,126.83	323.99	4.478					
15,900.00	7,806.82	15,809.48	7,806.82	164.40	164.01	90.00	-9,150.15	-349.26	1,450.83	1,123.35	327.48	4.430					
16,000.00	7,806.81	15,909.48	7,806.82	166.14	165.76	90.00	-9,250.15	-348.67	1,450.84	1,119.86	330.98	4.384					
16,100.00	7,806.81	16,009.48	7,806.82	167.87	167.51	90.00	-9,350.15	-348.08	1,450.85	1,116.38	334.47	4.338					
16,200.00	7,806.81	16,109.48	7,806.82	169.61	169.25	90.00	-9,450.15	-347.49	1,450.86	1,112.89	337.97	4.293					
16,300.00	7,806.81	16,209.48	7,806.81	171.35	171.00	90.00	-9,550.14	-346.90	1,450.87	1,109.41	341.46	4.249					
16,400.00	7,806.81	16,309.48	7,806.81	173.09	172.75	90.00	-9,650.14	-346.31	1,450.88	1,105.92	344.96	4.206					
16,500.00	7,806.80	16,409.48	7,806.81	174.83	174.50	90.00	-9,750.14	-345.72	1,450.89	1,102.43	348.46	4.164					
16,600.00	7,806.80	16,509.48	7,806.81	176.57	176.26	90.00	-9,850.14	-345.13	1,450.90	1,098.94	351.96	4.122					
16,700.00	7,806.80	16,609.48	7,806.80	178.31	178.01	90.00	-9,950.14	-344.54	1,450.91	1,095.45	355.46	4.082					
16,800.00	7,806.80	16,709.48	7,806.80	180.05	179.76	90.00	-10,050.14	-343.95	1,450.92	1,091.96	358.96	4.042					
16,900.00	7,806.79	16,809.48	7,806.80	181.79	181.51	90.00	-10,150.13	-343.36	1,450.93	1,088.47	362.46	4.003					
17,000.00	7,806.79	16,909.48	7,806.80	183.53	183.26	90.00	-10,250.13	-342.77	1,450.94	1,084.98	365.96	3.965					
17,100.00	7,806.79	17,009.48	7,806.79	185.27	185.02	90.00	-10,350.13	-342.18	1,450.95	1,081.48	369.47	3.927					
17,200.00	7,806.79	17,109.48	7,806.79	187.02	186.77	90.00	-10,450.13	-341.60	1,450.96	1,077.99	372.97	3.890					
17,300.00	7,806.78	17,209.48	7,806.79	188.76	188.52	90.00	-10,550.13	-341.01	1,450.97	1,074.49	376.48	3.854					
17,400.00	7,806.78	17,309.48	7,806.79	190.51	190.28	90.00	-10,650.13	-340.42	1,450.98	1,071.00	379.98	3.819					
17,500.00	7,806.78	17,409.48	7,806.78	192.25	192.03	90.00	-10,750.12	-339.83	1,450.99	1,067.50	383.49	3.784					
17,600.00	7,806.78	17,509.48	7,806.78	194.00	193.79	90.00	-10,850.12	-339.24	1,451.00	1,064.00	387.00	3.749					
17,700.00	7,806.77	17,609.48	7,806.78	195.74	195.54	90.00	-10,950.12	-338.65	1,451.01	1,060.50	390.51	3.716					
17,800.00	7,806.77	17,709.48	7,806.78	197.49	197.30	90.00	-11,050.12	-338.06	1,451.02	1,057.01	394.01	3.683					
17,900.00	7,806.77	17,814.36	7,806.82	199.24	199.14	90.00	-11,154.99	-337.39	1,450.99	1,053.34	397.65	3.649					
17,959.97	7,806.77	17,874.32	7,807.01	200.28	200.19	90.01	-11,214.95	-336.84	1,450.79	1,051.04	399.76	3.629					
17,973.82	7,807.00	17,871.77	7,807.00	200.53	200.15	90.00	-11,212.40	-336.86	1,450.69	1,050.89	399.80	3.629					
17,974.53	7,807.00	17,871.77	7,807.00	200.55	200.15	90.00	-11,212.40	-336.86	1,450.69	1,050.90	399.80	3.629 SF					

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.68	0.80	-143.96	143.96					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.80	-143.96	143.96	143.69	0.27	535.460		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.80	-143.96	143.96	142.97	0.99	146.035		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.80	-143.96	143.96	142.26	1.70	84.546		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.80	-143.96	143.96	141.54	2.42	59.496		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.80	-143.96	143.96	140.82	3.14	45.897		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.80	-143.96	143.96	140.11	3.85	37.358		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.80	-143.96	143.96	139.39	4.57	31.498		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.80	-143.96	143.96	138.67	5.29	27.227		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.80	-143.96	143.96	137.96	6.00	23.976		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.80	-143.96	143.96	137.24	6.72	21.418		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.68	0.80	-143.96	143.96	136.52	7.44	19.354 CC, ES		
1,200.00	1,199.98	1,200.02	1,199.98	4.06	4.08	137.58	0.80	-143.96	145.24	137.10	8.14	17.843		
1,300.00	1,299.84	1,300.16	1,299.84	4.40	4.44	138.89	0.80	-143.96	149.15	140.32	8.83	16.888		
1,400.00	1,399.45	1,400.55	1,399.45	4.74	4.80	140.91	0.80	-143.96	155.83	146.30	9.53	16.351		
1,500.00	1,498.70	1,498.70	1,498.70	5.09	5.15	143.45	0.80	-143.96	165.49	155.26	10.23	16.182		
1,600.00	1,597.47	1,598.70	1,598.68	5.46	5.49	145.79	-0.90	-143.90	177.99	167.08	10.92	16.305		
1,700.00	1,695.62	1,698.82	1,698.66	5.85	5.82	147.33	-6.09	-143.71	192.91	181.31	11.60	16.632		
1,800.00	1,793.06	1,798.93	1,798.39	6.27	6.15	148.18	-14.77	-143.39	210.05	197.76	12.29	17.085		
1,867.07	1,857.94	1,866.03	1,865.03	6.57	6.37	148.42	-22.53	-143.11	222.74	209.97	12.77	17.437		
1,900.00	1,889.69	1,898.98	1,897.69	6.72	6.48	148.51	-26.92	-142.95	229.15	216.14	13.01	17.613		
2,000.00	1,986.13	1,999.25	1,996.73	7.19	6.84	148.20	-42.56	-142.38	248.06	234.31	13.75	18.043		
2,100.00	2,082.57	2,101.87	2,093.95	7.68	7.21	147.39	-60.55	-141.72	266.36	251.83	14.52	18.338		
2,200.00	2,179.00	2,203.62	2,190.53	8.18	7.60	146.65	-78.57	-141.06	284.67	269.34	15.32	18.579		
2,300.00	2,275.44	2,305.37	2,287.11	8.69	8.00	146.01	-96.60	-140.40	303.01	286.88	16.14	18.776		
2,400.00	2,371.88	2,407.12	2,383.69	9.21	8.41	145.44	-114.62	-139.75	321.39	304.42	16.97	18.938		
2,500.00	2,468.31	2,508.88	2,480.27	9.74	8.82	144.93	-132.64	-139.09	339.80	321.98	17.82	19.070		
2,600.00	2,564.75	2,589.37	2,576.85	10.28	9.16	144.47	-150.67	-138.43	358.24	339.64	18.59	19.269		
2,700.00	2,661.19	2,687.62	2,673.43	10.82	9.57	144.06	-168.69	-137.77	376.69	357.24	19.45	19.370		
2,800.00	2,757.62	2,785.87	2,770.01	11.37	9.99	143.69	-186.71	-137.11	395.16	374.84	20.31	19.453		
2,900.00	2,854.06	2,884.12	2,866.59	11.92	10.41	143.35	-204.74	-136.46	413.64	392.45	21.19	19.523		
3,000.00	2,950.50	2,982.37	2,963.17	12.47	10.84	143.04	-222.76	-135.80	432.14	410.07	22.07	19.581		
3,100.00	3,046.93	3,080.62	3,059.74	13.03	11.26	142.75	-240.78	-135.14	450.64	427.69	22.96	19.630		
3,200.00	3,143.37	3,178.86	3,156.32	13.59	11.70	142.49	-258.81	-134.48	469.16	445.31	23.85	19.670		
3,300.00	3,239.81	3,277.11	3,252.90	14.15	12.13	142.25	-276.83	-133.82	487.69	462.94	24.75	19.703		
3,400.00	3,336.24	3,375.36	3,349.48	14.72	12.57	142.02	-294.85	-133.17	506.22	480.57	25.66	19.731		
3,500.00	3,432.68	3,473.61	3,446.06	15.28	13.01	141.81	-312.88	-132.51	524.76	498.20	26.57	19.754		
3,600.00	3,529.12	3,571.86	3,542.64	15.85	13.45	141.62	-330.90	-131.85	543.31	515.83	27.48	19.773		
3,700.00	3,625.55	3,670.11	3,639.22	16.42	13.90	141.43	-348.92	-131.19	561.87	533.47	28.39	19.788		
3,800.00	3,721.99	3,768.36	3,735.80	16.99	14.34	141.26	-366.95	-130.53	580.42	551.11	29.31	19.800		
3,900.00	3,818.43	3,866.60	3,832.38	17.56	14.79	141.10	-384.97	-129.88	598.99	568.75	30.24	19.810		
4,000.00	3,914.86	3,964.85	3,928.96	18.14	15.24	140.95	-402.99	-129.22	617.55	586.39	31.16	19.817		
4,100.00	4,011.30	4,063.10	4,025.54	18.71	15.69	140.81	-421.02	-128.56	636.13	604.03	32.09	19.823		
4,200.00	4,107.74	4,161.35	4,122.11	19.29	16.14	140.68	-439.04	-127.90	654.70	621.68	33.02	19.827		
4,300.00	4,204.17	4,259.60	4,218.69	19.86	16.59	140.55	-457.06	-127.24	673.28	639.33	33.95	19.829		
4,400.00	4,300.61	4,357.85	4,315.27	20.44	17.05	140.43	-475.09	-126.59	691.86	656.97	34.89	19.831		
4,500.00	4,397.05	4,456.10	4,411.85	21.02	17.50	140.32	-493.11	-125.93	710.44	674.62	35.82	19.831		
4,600.00	4,493.48	4,554.35	4,508.43	21.59	17.96	140.21	-511.13	-125.27	729.03	692.27	36.76	19.831		
4,700.00	4,589.92	4,652.59	4,605.01	22.17	18.41	140.11	-529.16	-124.61	747.62	709.92	37.70	19.830		
4,800.00	4,686.36	4,750.84	4,701.59	22.75	18.87	140.01	-547.18	-123.96	766.21	727.57	38.64	19.828		
4,900.00	4,782.79	4,849.09	4,798.17	23.33	19.33	139.92	-565.20	-123.30	784.80	745.22	39.58	19.826		
5,000.00	4,879.23	4,947.34	4,894.75	23.91	19.78	139.83	-583.23	-122.64	803.40	762.87	40.53	19.824		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,045.59	4,991.33	24.49	20.24	139.75	-601.25	-121.98	821.99	780.52	41.47	19.820		
5,200.00	5,072.10	5,143.84	5,087.90	25.07	20.70	139.67	-619.27	-121.32	840.59	798.17	42.42	19.817		
5,300.00	5,168.54	5,242.09	5,184.48	25.66	21.16	139.59	-637.30	-120.67	859.19	815.83	43.36	19.813		
5,400.00	5,264.98	5,340.33	5,281.06	26.24	21.62	139.52	-655.32	-120.01	877.79	833.48	44.31	19.809		
5,500.00	5,361.41	5,438.58	5,377.64	26.82	22.08	139.45	-673.34	-119.35	896.40	851.14	45.26	19.805		
5,600.00	5,457.85	5,536.83	5,474.22	27.40	22.54	139.38	-691.37	-118.69	915.00	868.79	46.21	19.801		
5,700.00	5,554.29	5,635.08	5,570.80	27.99	23.00	139.31	-709.39	-118.03	933.60	886.44	47.16	19.797		
5,800.00	5,650.72	5,733.33	5,667.38	28.57	23.46	139.25	-727.41	-117.38	952.21	904.10	48.11	19.792		
5,900.00	5,747.16	5,831.58	5,763.96	29.15	23.93	139.19	-745.44	-116.72	970.82	921.76	49.06	19.788		
6,000.00	5,843.60	5,929.83	5,860.54	29.74	24.39	139.13	-763.46	-116.06	989.43	939.41	50.01	19.783		
6,100.00	5,940.03	6,028.07	5,957.12	30.32	24.85	139.08	-781.48	-115.40	1,008.04	957.07	50.97	19.778		
6,200.00	6,036.47	6,126.32	6,053.70	30.90	25.31	139.02	-799.51	-114.74	1,026.64	974.72	51.92	19.773		
6,300.00	6,132.91	6,224.57	6,150.27	31.49	25.78	138.97	-817.53	-114.09	1,045.26	992.38	52.87	19.768		
6,400.00	6,229.34	6,322.82	6,246.85	32.07	26.24	138.92	-835.55	-113.43	1,063.87	1,010.04	53.83	19.764		
6,500.00	6,325.78	6,421.07	6,343.43	32.66	26.70	138.87	-853.58	-112.77	1,082.48	1,027.70	54.78	19.759		
6,552.14	6,376.06	6,472.30	6,393.79	32.96	26.94	138.85	-862.98	-112.43	1,092.19	1,036.90	55.28	19.756		
6,600.00	6,422.32	6,519.37	6,440.06	33.24	27.17	138.93	-871.61	-112.11	1,100.80	1,045.06	55.74	19.749		
6,700.00	6,519.60	6,618.01	6,537.03	33.78	27.63	138.98	-889.71	-111.45	1,116.88	1,060.19	56.69	19.702		
6,800.00	6,617.63	6,716.95	6,634.29	34.27	28.10	138.88	-907.86	-110.79	1,130.37	1,072.74	57.63	19.613		
6,900.00	6,716.28	6,816.06	6,731.71	34.72	28.57	138.64	-926.04	-110.13	1,141.29	1,082.72	58.57	19.485		
7,000.00	6,815.45	6,915.21	6,829.18	35.13	29.04	138.26	-944.23	-109.46	1,149.68	1,090.18	59.50	19.322		
7,100.00	6,915.00	7,013.03	6,925.44	35.49	29.49	137.78	-961.61	-108.83	1,155.60	1,095.20	60.40	19.133		
7,200.00	7,014.82	7,110.40	7,021.74	35.81	29.92	137.31	-975.92	-108.30	1,159.21	1,097.98	61.23	18.932		
7,300.00	7,114.79	7,208.27	7,118.98	36.09	30.32	136.86	-987.01	-107.90	1,160.51	1,098.51	62.00	18.718		
7,319.21	7,134.00	7,227.13	7,137.75	36.14	30.39	-90.04	-988.76	-107.84	1,160.49	1,098.36	62.14	18.676		
7,400.00	7,214.79	7,306.61	7,217.00	36.33	30.69	-90.33	-994.80	-107.62	1,160.29	1,097.60	62.69	18.509		
7,419.21	7,234.00	7,325.56	7,235.92	36.37	30.75	-90.39	-995.91	-107.58	1,160.25	1,097.44	62.81	18.472		
7,450.00	7,264.77	7,355.97	7,266.29	36.46	30.86	89.92	-997.44	-107.52	1,160.21	1,097.20	63.01	18.413		
7,500.00	7,314.52	7,405.25	7,315.54	36.62	31.02	90.08	-999.23	-107.45	1,160.15	1,096.82	63.33	18.318		
7,522.04	7,336.28	7,426.81	7,337.09	36.70	31.09	90.22	-999.74	-107.44	1,160.14	1,096.67	63.47	18.279		
7,550.00	7,363.66	7,453.86	7,364.14	36.81	31.17	90.47	-1,000.16	-107.42	1,160.16	1,096.53	63.63	18.233		
7,600.00	7,411.80	7,501.53	7,411.80	37.03	31.31	91.08	-1,000.33	-107.41	1,160.34	1,096.43	63.91	18.155		
7,650.00	7,458.60	7,548.32	7,458.60	37.29	31.44	91.84	-1,000.33	-107.41	1,160.82	1,096.64	64.18	18.087		
7,700.00	7,503.68	7,594.46	7,504.74	37.57	31.56	92.72	-1,000.41	-107.41	1,161.77	1,097.32	64.45	18.026		
7,750.00	7,546.72	7,645.52	7,555.69	37.89	31.75	93.72	-1,003.55	-107.40	1,163.21	1,098.40	64.81	17.947		
7,800.00	7,587.37	7,699.12	7,608.64	38.23	31.98	94.73	-1,011.71	-107.35	1,165.07	1,099.80	65.27	17.850		
7,850.00	7,625.34	7,755.61	7,663.37	38.59	32.28	95.73	-1,025.62	-107.26	1,167.33	1,101.49	65.84	17.730		
7,900.00	7,660.33	7,815.37	7,719.47	38.99	32.65	96.73	-1,046.12	-107.14	1,169.91	1,103.39	66.52	17.587		
7,950.00	7,692.07	7,878.78	7,776.32	39.40	33.10	97.72	-1,074.14	-106.98	1,172.76	1,105.43	67.33	17.419		
8,000.00	7,720.33	7,946.23	7,833.00	39.85	33.63	98.69	-1,110.63	-106.76	1,175.76	1,107.50	68.26	17.224		
8,050.00	7,744.88	8,018.03	7,888.17	40.31	34.26	99.62	-1,156.50	-106.49	1,178.79	1,109.44	69.35	16.998		
8,100.00	7,765.55	8,094.35	7,940.05	40.79	35.00	100.49	-1,212.41	-106.16	1,181.70	1,111.11	70.59	16.741		
8,150.00	7,782.18	8,175.18	7,986.37	41.30	35.85	101.26	-1,278.56	-105.77	1,184.33	1,112.33	72.00	16.449		
8,200.00	7,794.63	8,260.18	8,024.54	41.81	36.80	101.91	-1,354.42	-105.32	1,186.53	1,112.94	73.59	16.124		
8,250.00	7,802.82	8,348.63	8,051.90	42.34	37.85	102.38	-1,438.44	-104.82	1,188.13	1,112.78	75.35	15.768		
8,300.00	7,806.68	8,439.44	8,066.21	42.88	38.96	102.64	-1,528.02	-104.29	1,189.01	1,111.74	77.27	15.388		
8,319.29	7,807.00	8,474.82	8,067.91	43.09	39.39	102.67	-1,563.35	-104.08	1,189.15	1,111.11	78.04	15.238		
8,400.00	7,807.00	8,560.08	8,068.00	43.98	40.46	102.68	-1,648.60	-103.58	1,189.16	1,109.09	80.07	14.851		
8,500.00	7,807.00	8,660.08	8,068.00	45.12	41.74	102.68	-1,748.60	-102.99	1,189.17	1,106.63	82.54	14.407		
8,600.00	7,806.99	8,760.08	8,067.99	46.31	43.05	102.68	-1,848.60	-102.39	1,189.18	1,104.09	85.09	13.976		
8,700.00	7,806.99	8,860.08	8,067.99	47.53	44.40	102.68	-1,948.60	-101.80	1,189.19	1,101.49	87.69	13.561		
8,800.00	7,806.99	8,960.08	8,067.99	48.78	45.78	102.68	-2,048.60	-101.21	1,189.19	1,098.84	90.36	13.161		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,060.08	8,067.99	50.07	47.18	102.68	-2,148.59	-100.62	1,189.20	1,096.13	93.07	12.777		
9,000.00	7,806.98	9,160.08	8,067.98	51.38	48.61	102.68	-2,248.59	-100.03	1,189.21	1,093.37	95.84	12.408		
9,100.00	7,806.98	9,260.08	8,067.98	52.72	50.06	102.68	-2,348.59	-99.43	1,189.22	1,090.56	98.66	12.054		
9,200.00	7,806.98	9,360.08	8,067.98	54.09	51.53	102.68	-2,448.59	-98.84	1,189.22	1,087.72	101.51	11.715		
9,300.00	7,806.98	9,460.08	8,067.98	55.48	53.01	102.68	-2,548.59	-98.25	1,189.23	1,084.83	104.40	11.391		
9,400.00	7,806.97	9,560.08	8,067.97	56.89	54.52	102.68	-2,648.59	-97.66	1,189.24	1,081.91	107.33	11.081		
9,500.00	7,806.97	9,660.08	8,067.97	58.32	56.04	102.68	-2,748.58	-97.07	1,189.25	1,078.96	110.29	10.783		
9,600.00	7,806.97	9,760.08	8,067.97	59.77	57.57	102.68	-2,848.58	-96.47	1,189.25	1,075.98	113.27	10.499		
9,700.00	7,806.97	9,860.08	8,067.97	61.23	59.12	102.68	-2,948.58	-95.88	1,189.26	1,072.97	116.29	10.227		
9,800.00	7,806.96	9,960.08	8,067.96	62.71	60.68	102.68	-3,048.58	-95.29	1,189.27	1,069.94	119.33	9.966		
9,900.00	7,806.96	10,060.08	8,067.96	64.21	62.26	102.68	-3,148.58	-94.70	1,189.28	1,066.88	122.39	9.717		
10,000.00	7,806.96	10,160.08	8,067.96	65.72	63.84	102.68	-3,248.58	-94.11	1,189.29	1,063.81	125.48	9.478		
10,100.00	7,806.96	10,260.08	8,067.96	67.24	65.43	102.68	-3,348.57	-93.52	1,189.29	1,060.71	128.58	9.249		
10,200.00	7,806.95	10,360.08	8,067.95	68.78	67.03	102.68	-3,448.57	-92.92	1,189.30	1,057.59	131.71	9.030		
10,300.00	7,806.95	10,460.08	8,067.95	70.32	68.64	102.68	-3,548.57	-92.33	1,189.31	1,054.46	134.85	8.820		
10,400.00	7,806.95	10,560.08	8,067.95	71.88	70.26	102.68	-3,648.57	-91.74	1,189.32	1,051.31	138.01	8.618		
10,500.00	7,806.95	10,660.08	8,067.95	73.45	71.89	102.68	-3,748.57	-91.15	1,189.32	1,048.14	141.18	8.424		
10,600.00	7,806.95	10,760.08	8,067.94	75.02	73.52	102.68	-3,848.56	-90.56	1,189.33	1,044.96	144.37	8.238		
10,700.00	7,806.94	10,860.08	8,067.94	76.61	75.16	102.68	-3,948.56	-89.96	1,189.34	1,041.77	147.57	8.060		
10,800.00	7,806.94	10,960.08	8,067.94	78.20	76.80	102.68	-4,048.56	-89.37	1,189.35	1,038.57	150.78	7.888		
10,900.00	7,806.94	11,060.08	8,067.94	79.80	78.45	102.68	-4,148.56	-88.78	1,189.35	1,035.35	154.00	7.723		
11,000.00	7,806.94	11,160.08	8,067.93	81.41	80.11	102.68	-4,248.56	-88.19	1,189.36	1,032.12	157.24	7.564		
11,100.00	7,806.93	11,260.08	8,067.93	83.02	81.77	102.68	-4,348.56	-87.60	1,189.37	1,028.89	160.48	7.411		
11,200.00	7,806.93	11,360.08	8,067.93	84.64	83.43	102.68	-4,448.55	-87.01	1,189.38	1,025.64	163.74	7.264		
11,300.00	7,806.93	11,460.08	8,067.93	86.27	85.10	102.68	-4,548.55	-86.41	1,189.38	1,022.39	167.00	7.122		
11,400.00	7,806.93	11,560.08	8,067.92	87.90	86.78	102.68	-4,648.55	-85.82	1,189.39	1,019.12	170.27	6.985		
11,500.00	7,806.92	11,660.08	8,067.92	89.54	88.46	102.68	-4,748.55	-85.23	1,189.40	1,015.85	173.55	6.853		
11,600.00	7,806.92	11,760.08	8,067.92	91.18	90.14	102.68	-4,848.55	-84.64	1,189.41	1,012.57	176.84	6.726		
11,700.00	7,806.92	11,860.08	8,067.92	92.83	91.82	102.68	-4,948.55	-84.05	1,189.41	1,009.28	180.13	6.603		
11,800.00	7,806.92	11,960.08	8,067.91	94.48	93.51	102.68	-5,048.54	-83.45	1,189.42	1,005.99	183.43	6.484		
11,900.00	7,806.91	12,060.08	8,067.91	96.14	95.20	102.68	-5,148.54	-82.86	1,189.43	1,002.69	186.74	6.369		
12,000.00	7,806.91	12,160.08	8,067.91	97.80	96.89	102.68	-5,248.54	-82.27	1,189.44	999.38	190.06	6.258		
12,100.00	7,806.91	12,260.08	8,067.91	99.46	98.59	102.68	-5,348.54	-81.68	1,189.44	996.07	193.37	6.151		
12,200.00	7,806.91	12,360.08	8,067.90	101.13	100.29	102.68	-5,448.54	-81.09	1,189.45	992.75	196.70	6.047		
12,300.00	7,806.90	12,460.08	8,067.90	102.80	101.99	102.68	-5,548.54	-80.49	1,189.46	989.43	200.03	5.946		
12,400.00	7,806.90	12,560.08	8,067.90	104.47	103.70	102.68	-5,648.53	-79.90	1,189.47	986.10	203.37	5.849		
12,500.00	7,806.90	12,660.08	8,067.90	106.15	105.40	102.68	-5,748.53	-79.31	1,189.47	982.77	206.71	5.754		
12,600.00	7,806.90	12,760.08	8,067.89	107.83	107.11	102.67	-5,848.53	-78.72	1,189.48	979.43	210.05	5.663		
12,700.00	7,806.89	12,860.08	8,067.89	109.52	108.82	102.67	-5,948.53	-78.13	1,189.49	976.09	213.40	5.574		
12,800.00	7,806.89	12,960.08	8,067.89	111.20	110.54	102.67	-6,048.53	-77.54	1,189.50	972.75	216.75	5.488		
12,900.00	7,806.89	13,060.08	8,067.89	112.89	112.25	102.67	-6,148.52	-76.94	1,189.51	969.40	220.11	5.404		
13,000.00	7,806.89	13,160.08	8,067.88	114.59	113.97	102.67	-6,248.52	-76.35	1,189.51	966.04	223.47	5.323		
13,100.00	7,806.88	13,260.08	8,067.88	116.28	115.68	102.67	-6,348.52	-75.76	1,189.52	962.69	226.83	5.244		
13,200.00	7,806.88	13,360.08	8,067.88	117.98	117.40	102.67	-6,448.52	-75.17	1,189.53	959.33	230.20	5.167		
13,300.00	7,806.88	13,460.08	8,067.88	119.68	119.13	102.67	-6,548.52	-74.58	1,189.54	955.97	233.57	5.093		
13,400.00	7,806.88	13,560.08	8,067.87	121.38	120.85	102.67	-6,648.52	-73.98	1,189.54	952.60	236.94	5.020		
13,500.00	7,806.88	13,660.08	8,067.87	123.08	122.57	102.67	-6,748.51	-73.39	1,189.55	949.23	240.32	4.950		
13,600.00	7,806.87	13,760.08	8,067.87	124.79	124.30	102.67	-6,848.51	-72.80	1,189.56	945.86	243.70	4.881		
13,700.00	7,806.87	13,860.08	8,067.87	126.49	126.03	102.67	-6,948.51	-72.21	1,189.57	942.48	247.08	4.814		
13,800.00	7,806.87	13,960.08	8,067.86	128.20	127.75	102.67	-7,048.51	-71.62	1,189.57	939.11	250.47	4.749		
13,900.00	7,806.87	14,060.08	8,067.86	129.91	129.48	102.67	-7,148.51	-71.02	1,189.58	935.73	253.85	4.686		
14,000.00	7,806.86	14,160.08	8,067.86	131.62	131.21	102.67	-7,248.51	-70.43	1,189.59	932.34	257.24	4.624		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft	
Survey Program:													0-MWD OWSG		Offset Well Error:		0.00 usft	
Reference		Offset		Semi Major Axis			Distance							Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.86	14,260.08	8,067.86	133.34	132.95	102.67	-7,348.50	-69.84	1,189.60	928.96	260.64	4.564						
14,200.00	7,806.86	14,360.08	8,067.85	135.05	134.68	102.67	-7,448.50	-69.25	1,189.60	925.57	264.03	4.506						
14,300.00	7,806.86	14,460.08	8,067.85	136.77	136.41	102.67	-7,548.50	-68.66	1,189.61	922.18	267.43	4.448						
14,400.00	7,806.85	14,560.08	8,067.85	138.49	138.15	102.67	-7,648.50	-68.07	1,189.62	918.79	270.83	4.393						
14,500.00	7,806.85	14,660.08	8,067.85	140.21	139.88	102.67	-7,748.50	-67.47	1,189.63	915.40	274.23	4.338						
14,600.00	7,806.85	14,760.08	8,067.84	141.93	141.62	102.67	-7,848.49	-66.88	1,189.63	912.01	277.63	4.285						
14,700.00	7,806.85	14,860.08	8,067.84	143.65	143.36	102.67	-7,948.49	-66.29	1,189.64	908.61	281.03	4.233						
14,800.00	7,806.84	14,960.08	8,067.84	145.37	145.10	102.67	-8,048.49	-65.70	1,189.65	905.21	284.44	4.182						
14,900.00	7,806.84	15,060.08	8,067.84	147.10	146.84	102.67	-8,148.49	-65.11	1,189.66	901.81	287.85	4.133						
15,000.00	7,806.84	15,160.08	8,067.83	148.83	148.58	102.67	-8,248.49	-64.51	1,189.66	898.41	291.26	4.085						
15,100.00	7,806.84	15,260.08	8,067.83	150.55	150.32	102.67	-8,348.49	-63.92	1,189.67	895.00	294.67	4.037						
15,200.00	7,806.83	15,360.08	8,067.83	152.28	152.06	102.67	-8,448.48	-63.33	1,189.68	891.60	298.08	3.991						
15,300.00	7,806.83	15,460.08	8,067.83	154.01	153.80	102.67	-8,548.48	-62.74	1,189.69	888.19	301.50	3.946						
15,400.00	7,806.83	15,560.08	8,067.82	155.74	155.55	102.67	-8,648.48	-62.15	1,189.70	884.78	304.91	3.902						
15,500.00	7,806.83	15,660.08	8,067.82	157.47	157.29	102.67	-8,748.48	-61.56	1,189.70	881.37	308.33	3.859						
15,600.00	7,806.82	15,760.08	8,067.82	159.20	159.03	102.67	-8,848.48	-60.96	1,189.71	877.96	311.75	3.816						
15,700.00	7,806.82	15,860.08	8,067.82	160.93	160.78	102.67	-8,948.48	-60.37	1,189.72	874.55	315.17	3.775						
15,800.00	7,806.82	15,960.08	8,067.81	162.67	162.52	102.67	-9,048.47	-59.78	1,189.73	871.14	318.59	3.734						
15,900.00	7,806.82	16,060.08	8,067.81	164.40	164.27	102.67	-9,148.47	-59.19	1,189.73	867.72	322.01	3.695						
16,000.00	7,806.81	16,160.08	8,067.81	166.14	166.02	102.67	-9,248.47	-58.60	1,189.74	864.31	325.43	3.656						
16,100.00	7,806.81	16,260.08	8,067.80	167.87	167.77	102.67	-9,348.47	-58.00	1,189.75	860.89	328.86	3.618						
16,200.00	7,806.81	16,360.08	8,067.80	169.61	169.51	102.67	-9,448.47	-57.41	1,189.76	857.47	332.28	3.581						
16,300.00	7,806.81	16,460.08	8,067.80	171.35	171.26	102.67	-9,548.47	-56.82	1,189.76	854.05	335.71	3.544						
16,400.00	7,806.81	16,560.08	8,067.80	173.09	173.01	102.67	-9,648.46	-56.23	1,189.77	850.63	339.14	3.508						
16,500.00	7,806.80	16,660.08	8,067.79	174.83	174.76	102.67	-9,748.46	-55.64	1,189.78	847.21	342.57	3.473						
16,600.00	7,806.80	16,760.08	8,067.79	176.57	176.51	102.67	-9,848.46	-55.04	1,189.79	843.79	346.00	3.439						
16,700.00	7,806.80	16,860.08	8,067.79	178.31	178.26	102.67	-9,948.46	-54.45	1,189.79	840.37	349.43	3.405						
16,800.00	7,806.80	16,960.08	8,067.79	180.05	180.01	102.67	-10,048.46	-53.86	1,189.80	836.94	352.86	3.372						
16,900.00	7,806.79	17,060.08	8,067.78	181.79	181.76	102.67	-10,148.45	-53.27	1,189.81	833.52	356.29	3.339						
17,000.00	7,806.79	17,160.08	8,067.78	183.53	183.52	102.67	-10,248.45	-52.68	1,189.82	830.09	359.72	3.308						
17,100.00	7,806.79	17,260.08	8,067.78	185.27	185.27	102.67	-10,348.45	-52.09	1,189.82	826.67	363.16	3.276						
17,200.00	7,806.79	17,360.08	8,067.78	187.02	187.02	102.67	-10,448.45	-51.49	1,189.83	823.24	366.59	3.246						
17,300.00	7,806.78	17,460.08	8,067.77	188.76	188.77	102.67	-10,548.45	-50.90	1,189.84	819.81	370.03	3.216						
17,400.00	7,806.78	17,560.08	8,067.77	190.51	190.53	102.67	-10,648.45	-50.31	1,189.85	816.38	373.47	3.186						
17,500.00	7,806.78	17,660.08	8,067.77	192.25	192.28	102.67	-10,748.44	-49.72	1,189.85	812.95	376.90	3.157						
17,600.00	7,806.78	17,760.08	8,067.77	194.00	194.03	102.67	-10,848.44	-49.13	1,189.86	809.52	380.34	3.128						
17,700.00	7,806.77	17,860.08	8,067.76	195.74	195.79	102.67	-10,948.44	-48.53	1,189.87	806.09	383.78	3.100						
17,800.00	7,806.77	17,960.08	8,067.76	197.49	197.54	102.67	-11,048.44	-47.94	1,189.88	802.66	387.22	3.073						
17,900.00	7,806.77	18,060.08	8,067.76	199.24	199.30	102.67	-11,148.44	-47.35	1,189.88	799.22	390.66	3.046						
17,960.77	7,806.77	18,125.41	8,068.01	200.30	200.44	102.68	-11,213.77	-46.81	1,189.80	796.93	392.87	3.028						
17,973.82	7,807.00	18,124.67	8,068.00	200.53	200.43	102.67	-11,213.03	-46.82	1,189.63	796.73	392.90	3.028 SF						
17,974.53	7,807.00	18,124.67	8,068.00	200.55	200.43	102.67	-11,213.03	-46.82	1,189.64	796.73	392.91	3.028						

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.68	0.60	-107.97	107.97					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.60	-107.97	107.97	107.70	0.27	401.593		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.60	-107.97	107.97	106.98	0.99	109.525		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.60	-107.97	107.97	106.27	1.70	63.409		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.60	-107.97	107.97	105.55	2.42	44.621		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.60	-107.97	107.97	104.83	3.14	34.422		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.60	-107.97	107.97	104.12	3.85	28.018		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.60	-107.97	107.97	103.40	4.57	23.623		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.60	-107.97	107.97	102.68	5.29	20.420		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	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	-89.68	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	-89.68	0.60	-107.97	107.97	100.53	7.44	14.515 CC, ES		
1,200.00	1,199.98	1,200.02	1,199.98	4.06	4.08	137.74	0.60	-107.97	109.26	101.12	8.14	13.422		
1,300.00	1,299.84	1,300.16	1,299.84	4.40	4.44	139.47	0.60	-107.97	113.18	104.35	8.83	12.815		
1,400.00	1,399.45	1,399.45	1,399.45	4.74	4.79	142.09	0.60	-107.97	119.95	110.42	9.53	12.591		
1,500.00	1,498.70	1,500.58	1,500.56	5.09	5.14	144.63	-1.09	-107.47	129.08	118.86	10.21	12.638		
1,600.00	1,597.47	1,601.95	1,601.78	5.46	5.47	146.29	-6.23	-105.98	139.78	128.89	10.89	12.834		
1,700.00	1,695.62	1,703.49	1,702.92	5.85	5.81	147.20	-14.82	-103.48	151.91	140.33	11.58	13.117		
1,800.00	1,793.06	1,805.15	1,803.80	6.27	6.15	147.49	-26.86	-99.97	165.38	153.09	12.29	13.458		
1,867.07	1,857.94	1,873.37	1,871.22	6.57	6.40	147.40	-36.86	-97.05	175.14	162.36	12.78	13.706		
1,900.00	1,889.69	1,906.90	1,904.26	6.72	6.52	147.30	-42.34	-95.46	179.98	166.96	13.02	13.824		
2,000.00	1,986.13	2,007.73	2,003.24	7.19	6.89	146.49	-60.81	-90.08	193.77	179.99	13.78	14.059		
2,100.00	2,082.57	2,106.77	2,100.33	7.68	7.28	145.64	-79.58	-84.61	207.31	192.74	14.57	14.228		
2,200.00	2,179.00	2,205.80	2,197.41	8.18	7.68	144.89	-98.34	-79.14	220.88	205.50	15.38	14.362		
2,300.00	2,275.44	2,304.84	2,294.50	8.69	8.09	144.22	-117.10	-73.68	234.49	218.28	16.21	14.466		
2,400.00	2,371.88	2,403.87	2,391.59	9.21	8.50	143.63	-135.87	-68.21	248.12	231.07	17.05	14.549		
2,500.00	2,468.31	2,502.91	2,488.68	9.74	8.93	143.10	-154.63	-62.75	261.78	243.87	17.91	14.614		
2,600.00	2,564.75	2,601.95	2,585.76	10.28	9.36	142.63	-173.40	-57.28	275.46	256.67	18.78	14.664		
2,700.00	2,661.19	2,700.98	2,682.85	10.82	9.79	142.20	-192.16	-51.81	289.15	269.48	19.67	14.702		
2,800.00	2,757.62	2,800.02	2,779.94	11.37	10.24	141.80	-210.92	-46.35	302.86	282.30	20.56	14.731		
2,900.00	2,854.06	2,900.95	2,877.03	11.92	10.69	141.44	-229.69	-40.88	316.58	295.11	21.47	14.747		
3,000.00	2,950.50	3,001.91	2,974.12	12.47	11.15	141.12	-248.45	-35.41	330.31	307.93	22.39	14.756		
3,100.00	3,046.93	3,102.88	3,071.20	13.03	11.61	140.81	-267.22	-29.95	344.06	320.75	23.31	14.761		
3,200.00	3,143.37	3,203.84	3,168.29	13.59	12.07	140.53	-285.98	-24.48	357.81	333.57	24.24	14.762		
3,300.00	3,239.81	3,304.81	3,265.38	14.15	12.54	140.27	-304.74	-19.01	371.57	346.39	25.17	14.760		
3,400.00	3,336.24	3,405.77	3,362.47	14.72	13.01	140.03	-323.51	-13.55	385.33	359.22	26.11	14.755		
3,500.00	3,432.68	3,506.73	3,459.56	15.28	13.48	139.81	-342.27	-8.08	399.10	372.04	27.06	14.749		
3,600.00	3,529.12	3,607.70	3,556.64	15.85	13.96	139.60	-361.04	-2.62	412.88	384.87	28.01	14.742		
3,700.00	3,625.55	3,708.66	3,653.73	16.42	14.43	139.41	-379.80	2.85	426.66	397.70	28.96	14.733		
3,800.00	3,721.99	3,809.63	3,750.82	16.99	14.91	139.22	-398.56	8.32	440.45	410.54	29.92	14.723		
3,900.00	3,818.43	3,889.41	3,847.91	17.56	15.29	139.05	-417.33	13.78	454.24	423.47	30.78	14.760		
4,000.00	3,914.86	3,988.44	3,945.00	18.14	15.76	138.89	-436.09	19.25	468.04	436.31	31.73	14.751		
4,100.00	4,011.30	4,087.48	4,042.08	18.71	16.23	138.74	-454.86	24.72	481.84	449.15	32.68	14.743		
4,200.00	4,107.74	4,186.51	4,139.17	19.29	16.70	138.59	-473.62	30.18	495.64	462.00	33.64	14.734		
4,300.00	4,204.17	4,285.55	4,236.26	19.86	17.18	138.46	-492.38	35.65	509.44	474.84	34.60	14.724		
4,400.00	4,300.61	4,384.58	4,333.35	20.44	17.65	138.33	-511.15	41.12	523.25	487.69	35.56	14.715		
4,500.00	4,397.05	4,483.62	4,430.44	21.02	18.13	138.21	-529.91	46.58	537.06	500.54	36.52	14.705		
4,600.00	4,493.48	4,582.66	4,527.52	21.59	18.60	138.09	-548.68	52.05	550.87	513.39	37.49	14.695		
4,700.00	4,589.92	4,681.69	4,624.61	22.17	19.08	137.98	-567.44	57.51	564.69	526.23	38.45	14.685		
4,800.00	4,686.36	4,780.73	4,721.70	22.75	19.56	137.87	-586.20	62.98	578.50	539.08	39.42	14.675		
4,900.00	4,782.79	4,879.76	4,818.79	23.33	20.04	137.77	-604.97	68.45	592.32	551.93	40.39	14.666		
5,000.00	4,879.23	4,978.80	4,915.87	23.91	20.52	137.68	-623.73	73.91	606.14	564.78	41.36	14.656		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,077.83	5,012.96	24.49	20.99	137.59	-642.50	79.38	619.96	577.63	42.33	14.646		
5,200.00	5,072.10	5,176.87	5,110.05	25.07	21.47	137.50	-661.26	84.85	633.79	590.48	43.30	14.637		
5,300.00	5,168.54	5,275.90	5,207.14	25.66	21.95	137.41	-680.02	90.31	647.61	603.34	44.27	14.627		
5,400.00	5,264.98	5,374.94	5,304.23	26.24	22.44	137.33	-698.79	95.78	661.44	616.19	45.25	14.618		
5,500.00	5,361.41	5,473.98	5,401.31	26.82	22.92	137.26	-717.55	101.25	675.26	629.04	46.22	14.609		
5,600.00	5,457.85	5,573.01	5,498.40	27.40	23.40	137.18	-736.32	106.71	689.09	641.89	47.20	14.600		
5,700.00	5,554.29	5,672.05	5,595.49	27.99	23.88	137.11	-755.08	112.18	702.92	654.74	48.18	14.591		
5,800.00	5,650.72	5,771.08	5,692.58	28.57	24.36	137.04	-773.84	117.64	716.75	667.60	49.15	14.582		
5,900.00	5,747.16	5,870.12	5,789.67	29.15	24.85	136.98	-792.61	123.11	730.58	680.45	50.13	14.573		
6,000.00	5,843.60	5,969.15	5,886.75	29.74	25.33	136.92	-811.37	128.58	744.41	693.30	51.11	14.565		
6,100.00	5,940.03	6,068.19	5,983.84	30.32	25.81	136.85	-830.14	134.04	758.24	706.16	52.09	14.557		
6,200.00	6,036.47	6,167.22	6,080.93	30.90	26.29	136.80	-848.90	139.51	772.08	719.01	53.07	14.549		
6,300.00	6,132.91	6,266.26	6,178.02	31.49	26.78	136.74	-867.66	144.98	785.91	731.86	54.05	14.541		
6,400.00	6,229.34	6,365.29	6,275.11	32.07	27.26	136.68	-886.43	150.44	799.75	744.72	55.03	14.533		
6,500.00	6,325.78	6,464.33	6,372.19	32.66	27.75	136.63	-905.19	155.91	813.58	757.57	56.01	14.525		
6,552.14	6,376.06	6,515.97	6,422.82	32.96	28.00	136.60	-914.98	158.76	820.80	764.27	56.52	14.521		
6,600.00	6,422.32	6,563.40	6,469.32	33.24	28.23	136.65	-923.96	161.38	827.13	770.14	56.99	14.513		
6,700.00	6,519.60	6,662.70	6,566.66	33.78	28.72	136.60	-942.78	166.86	838.51	780.53	57.98	14.462		
6,800.00	6,617.63	6,754.72	6,657.13	34.27	29.15	136.48	-958.88	171.55	847.81	788.94	58.87	14.401		
6,900.00	6,716.28	6,846.76	6,748.12	34.72	29.56	136.38	-972.18	175.43	855.51	795.81	59.70	14.330		
7,000.00	6,815.45	6,938.95	6,839.65	35.13	29.93	136.31	-982.69	178.49	861.58	801.11	60.47	14.249		
7,100.00	6,915.00	7,031.25	6,931.60	35.49	30.28	136.25	-990.38	180.73	866.01	804.84	61.17	14.158		
7,200.00	7,014.82	7,123.63	7,023.84	35.81	30.60	136.22	-995.22	182.14	868.80	807.00	61.80	14.058		
7,300.00	7,114.79	7,216.06	7,116.24	36.09	30.89	136.21	-997.20	182.71	869.94	807.57	62.37	13.949		
7,319.21	7,134.00	7,233.81	7,134.00	36.14	30.95	-90.61	-997.25	182.73	869.97	807.51	62.46	13.927		
7,400.00	7,214.79	7,314.60	7,214.79	36.33	31.16	-90.61	-997.25	182.73	869.97	807.08	62.89	13.833		
7,419.21	7,234.00	7,333.81	7,234.00	36.37	31.21	-90.61	-997.25	182.73	869.97	806.98	62.99	13.811		
7,420.57	7,235.36	7,335.17	7,235.36	36.38	31.22	89.74	-997.25	182.73	869.97	806.97	63.00	13.809		
7,450.00	7,264.77	7,364.39	7,264.56	36.46	31.31	89.74	-998.07	182.73	869.97	806.79	63.18	13.769		
7,500.00	7,314.52	7,414.04	7,313.96	36.62	31.50	89.74	-1,002.86	182.76	869.97	806.42	63.55	13.689		
7,550.00	7,363.66	7,463.69	7,362.77	36.81	31.73	89.74	-1,011.91	182.81	869.97	805.97	64.00	13.594		
7,600.00	7,411.80	7,513.35	7,410.61	37.03	32.00	89.75	-1,025.15	182.89	869.97	805.45	64.52	13.484		
7,650.00	7,458.60	7,563.02	7,457.14	37.29	32.30	89.76	-1,042.48	183.00	869.97	804.86	65.11	13.361		
7,700.00	7,503.68	7,612.70	7,502.01	37.57	32.64	89.77	-1,063.79	183.12	869.97	804.20	65.77	13.227		
7,750.00	7,546.72	7,662.40	7,544.87	37.89	33.02	89.78	-1,088.91	183.27	869.97	803.47	66.50	13.082		
7,800.00	7,587.37	7,712.11	7,585.41	38.23	33.43	89.79	-1,117.65	183.44	869.97	802.68	67.30	12.927		
7,850.00	7,625.34	7,761.84	7,623.32	38.59	33.86	89.81	-1,149.82	183.63	869.98	801.82	68.16	12.764		
7,900.00	7,660.33	7,811.59	7,658.31	38.99	34.33	89.82	-1,185.16	183.84	869.98	800.90	69.07	12.595		
7,950.00	7,692.07	7,861.37	7,690.12	39.40	34.83	89.84	-1,223.42	184.07	869.98	799.93	70.05	12.420		
8,000.00	7,720.33	7,911.17	7,718.50	39.85	35.36	89.86	-1,264.32	184.31	869.98	798.91	71.07	12.240		
8,050.00	7,744.88	7,960.99	7,743.24	40.31	35.90	89.88	-1,307.55	184.57	869.98	797.83	72.15	12.058		
8,100.00	7,765.55	8,010.84	7,764.14	40.79	36.47	89.90	-1,352.80	184.84	869.98	796.72	73.26	11.875		
8,150.00	7,782.18	8,060.72	7,781.04	41.30	37.06	89.92	-1,399.71	185.12	869.99	795.57	74.41	11.691		
8,200.00	7,794.63	8,110.63	7,793.80	41.81	37.66	89.94	-1,447.94	185.40	869.99	794.40	75.59	11.509		
8,250.00	7,802.82	8,160.57	7,802.32	42.34	38.27	89.97	-1,497.13	185.70	869.99	793.20	76.79	11.330		
8,300.00	7,806.68	8,210.54	7,806.52	42.88	38.89	89.99	-1,546.91	185.99	869.99	792.00	78.00	11.154		
8,319.29	7,807.00	8,237.96	7,807.00	43.09	39.23	90.00	-1,566.19	186.11	870.00	791.43	78.57	11.073		
8,400.00	7,807.00	8,310.54	7,807.00	43.98	40.14	90.00	-1,646.90	186.59	870.00	789.55	80.45	10.814		
8,500.00	7,807.00	8,410.54	7,807.00	45.12	41.42	90.00	-1,746.90	187.18	870.01	787.03	82.98	10.485		
8,600.00	7,806.99	8,510.54	7,806.99	46.31	42.75	90.00	-1,846.89	187.77	870.01	784.43	85.58	10.166		
8,700.00	7,806.99	8,610.54	7,806.99	47.53	44.10	90.00	-1,946.89	188.37	870.02	781.77	88.25	9.859		
8,800.00	7,806.99	8,710.54	7,806.99	48.78	45.48	90.00	-2,046.89	188.96	870.02	779.05	90.98	9.563		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	8,810.54	7,806.99	50.07	46.89	90.00	-2,146.89	189.56	870.03	776.27	93.76	9.279		
9,000.00	7,806.98	8,910.54	7,806.98	51.38	48.32	90.00	-2,246.89	190.15	870.03	773.44	96.59	9.007		
9,100.00	7,806.98	9,010.54	7,806.98	52.72	49.78	90.00	-2,346.88	190.74	870.04	770.57	99.47	8.747		
9,200.00	7,806.98	9,110.54	7,806.98	54.09	51.25	90.00	-2,446.88	191.34	870.05	767.65	102.39	8.497		
9,300.00	7,806.98	9,210.54	7,806.98	55.48	52.74	90.00	-2,546.88	191.93	870.05	764.70	105.35	8.259		
9,400.00	7,806.97	9,310.54	7,806.97	56.89	54.25	90.00	-2,646.88	192.52	870.06	761.71	108.34	8.031		
9,500.00	7,806.97	9,410.54	7,806.97	58.32	55.78	90.00	-2,746.88	193.12	870.06	758.69	111.37	7.812		
9,600.00	7,806.97	9,510.54	7,806.97	59.77	57.32	90.00	-2,846.88	193.71	870.07	755.64	114.43	7.604		
9,700.00	7,806.97	9,610.54	7,806.97	61.23	58.87	90.00	-2,946.87	194.31	870.07	752.56	117.51	7.404		
9,800.00	7,806.96	9,710.54	7,806.96	62.71	60.44	90.00	-3,046.87	194.90	870.08	749.46	120.62	7.213		
9,900.00	7,806.96	9,810.54	7,806.96	64.21	62.01	90.00	-3,146.87	195.49	870.09	746.33	123.75	7.031		
10,000.00	7,806.96	9,910.54	7,806.96	65.72	63.60	90.00	-3,246.87	196.09	870.09	743.18	126.91	6.856		
10,100.00	7,806.96	10,010.54	7,806.96	67.24	65.19	90.00	-3,346.87	196.68	870.10	740.01	130.08	6.689		
10,200.00	7,806.95	10,110.54	7,806.95	68.78	66.80	90.00	-3,446.87	197.28	870.10	736.83	133.28	6.529		
10,300.00	7,806.95	10,210.54	7,806.95	70.32	68.41	90.00	-3,546.86	197.87	870.11	733.62	136.49	6.375		
10,400.00	7,806.95	10,310.54	7,806.95	71.88	70.03	90.00	-3,646.86	198.46	870.12	730.40	139.72	6.228		
10,500.00	7,806.95	10,410.54	7,806.95	73.45	71.66	90.00	-3,746.86	199.06	870.12	727.16	142.96	6.087		
10,600.00	7,806.95	10,510.54	7,806.94	75.02	73.30	90.00	-3,846.86	199.65	870.13	723.91	146.21	5.951		
10,700.00	7,806.94	10,610.54	7,806.94	76.61	74.94	90.00	-3,946.86	200.25	870.13	720.65	149.48	5.821		
10,800.00	7,806.94	10,710.54	7,806.94	78.20	76.58	90.00	-4,046.85	200.84	870.14	717.37	152.77	5.696		
10,900.00	7,806.94	10,810.54	7,806.94	79.80	78.24	90.00	-4,146.85	201.43	870.14	714.08	156.06	5.576		
11,000.00	7,806.94	10,910.54	7,806.93	81.41	79.89	90.00	-4,246.85	202.03	870.15	710.79	159.36	5.460		
11,100.00	7,806.93	11,010.54	7,806.93	83.02	81.56	90.00	-4,346.85	202.62	870.16	707.48	162.68	5.349		
11,200.00	7,806.93	11,110.54	7,806.93	84.64	83.22	90.00	-4,446.85	203.21	870.16	704.16	166.00	5.242		
11,300.00	7,806.93	11,210.54	7,806.93	86.27	84.89	90.00	-4,546.85	203.81	870.17	700.83	169.34	5.139		
11,400.00	7,806.93	11,310.54	7,806.92	87.90	86.57	90.00	-4,646.84	204.40	870.17	697.49	172.68	5.039		
11,500.00	7,806.92	11,410.54	7,806.92	89.54	88.25	90.00	-4,746.84	205.00	870.18	694.15	176.03	4.943		
11,600.00	7,806.92	11,510.54	7,806.92	91.18	89.93	90.00	-4,846.84	205.59	870.18	690.80	179.39	4.851		
11,700.00	7,806.92	11,610.54	7,806.92	92.83	91.62	90.00	-4,946.84	206.18	870.19	687.44	182.75	4.762		
11,800.00	7,806.92	11,710.54	7,806.91	94.48	93.31	90.00	-5,046.84	206.78	870.20	684.07	186.12	4.675		
11,900.00	7,806.91	11,810.54	7,806.91	96.14	95.00	90.00	-5,146.84	207.37	870.20	680.70	189.50	4.592		
12,000.00	7,806.91	11,910.54	7,806.91	97.80	96.70	90.00	-5,246.83	207.97	870.21	677.32	192.88	4.512		
12,100.00	7,806.91	12,010.54	7,806.91	99.46	98.39	90.00	-5,346.83	208.56	870.21	673.94	196.27	4.434		
12,200.00	7,806.91	12,110.54	7,806.90	101.13	100.09	90.00	-5,446.83	209.15	870.22	670.55	199.67	4.358		
12,300.00	7,806.90	12,210.54	7,806.90	102.80	101.80	90.00	-5,546.83	209.75	870.22	667.16	203.07	4.285		
12,400.00	7,806.90	12,310.54	7,806.90	104.47	103.50	90.00	-5,646.83	210.34	870.23	663.76	206.47	4.215		
12,500.00	7,806.90	12,410.54	7,806.90	106.15	105.21	90.00	-5,746.82	210.94	870.24	660.35	209.88	4.146		
12,600.00	7,806.90	12,510.54	7,806.89	107.83	106.92	90.00	-5,846.82	211.53	870.24	656.94	213.30	4.080		
12,700.00	7,806.89	12,610.54	7,806.89	109.52	108.63	90.00	-5,946.82	212.12	870.25	653.53	216.72	4.016		
12,800.00	7,806.89	12,710.54	7,806.89	111.20	110.35	90.00	-6,046.82	212.72	870.25	650.11	220.14	3.953		
12,900.00	7,806.89	12,810.54	7,806.89	112.89	112.06	90.00	-6,146.82	213.31	870.26	646.69	223.57	3.893		
13,000.00	7,806.89	12,910.54	7,806.88	114.59	113.78	90.00	-6,246.82	213.90	870.27	643.27	227.00	3.834		
13,100.00	7,806.88	13,010.54	7,806.88	116.28	115.50	90.00	-6,346.81	214.50	870.27	639.84	230.43	3.777		
13,200.00	7,806.88	13,110.54	7,806.88	117.98	117.22	90.00	-6,446.81	215.09	870.28	636.41	233.87	3.721		
13,300.00	7,806.88	13,210.54	7,806.88	119.68	118.94	90.00	-6,546.81	215.69	870.28	632.97	237.31	3.667		
13,400.00	7,806.88	13,310.54	7,806.87	121.38	120.67	90.00	-6,646.81	216.28	870.29	629.54	240.75	3.615		
13,500.00	7,806.88	13,410.54	7,806.87	123.08	122.39	90.00	-6,746.81	216.87	870.29	626.10	244.20	3.564		
13,600.00	7,806.87	13,510.54	7,806.87	124.79	124.12	90.00	-6,846.81	217.47	870.30	622.65	247.65	3.514		
13,700.00	7,806.87	13,610.54	7,806.87	126.49	125.85	90.00	-6,946.80	218.06	870.31	619.21	251.10	3.466		
13,800.00	7,806.87	13,710.54	7,806.86	128.20	127.58	90.00	-7,046.80	218.66	870.31	615.76	254.55	3.419		
13,900.00	7,806.87	13,810.54	7,806.86	129.91	129.31	90.00	-7,146.80	219.25	870.32	612.31	258.01	3.373		
14,000.00	7,806.86	13,910.54	7,806.86	131.62	131.04	90.00	-7,246.80	219.84	870.32	608.85	261.47	3.329		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft
Survey Program:													0-MWD OWSG		Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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	7,806.86	14,010.54	7,806.86	133.34	132.77	90.00	-7,346.80	220.44	870.33	605.40	264.93	3.285					
14,200.00	7,806.86	14,110.54	7,806.85	135.05	134.50	90.00	-7,446.79	221.03	870.33	601.94	268.40	3.243					
14,300.00	7,806.86	14,210.54	7,806.85	136.77	136.24	90.00	-7,546.79	221.63	870.34	598.48	271.86	3.201					
14,400.00	7,806.85	14,310.54	7,806.85	138.49	137.97	90.00	-7,646.79	222.22	870.35	595.02	275.33	3.161					
14,500.00	7,806.85	14,410.54	7,806.85	140.21	139.71	90.00	-7,746.79	222.81	870.35	591.55	278.80	3.122					
14,600.00	7,806.85	14,510.54	7,806.84	141.93	141.45	90.00	-7,846.79	223.41	870.36	588.09	282.27	3.083					
14,700.00	7,806.85	14,610.54	7,806.84	143.65	143.19	90.00	-7,946.79	224.00	870.36	584.62	285.75	3.046					
14,800.00	7,806.84	14,710.54	7,806.84	145.37	144.93	90.00	-8,046.78	224.59	870.37	581.15	289.22	3.009					
14,900.00	7,806.84	14,810.54	7,806.84	147.10	146.67	90.00	-8,146.78	225.19	870.38	577.68	292.70	2.974					
15,000.00	7,806.84	14,910.54	7,806.83	148.83	148.41	90.00	-8,246.78	225.78	870.38	574.20	296.18	2.939					
15,100.00	7,806.84	15,010.54	7,806.83	150.55	150.15	90.00	-8,346.78	226.38	870.39	570.73	299.66	2.905					
15,200.00	7,806.83	15,110.54	7,806.83	152.28	151.89	90.00	-8,446.78	226.97	870.39	567.25	303.14	2.871					
15,300.00	7,806.83	15,210.54	7,806.83	154.01	153.63	90.00	-8,546.78	227.56	870.40	563.77	306.63	2.839					
15,400.00	7,806.83	15,310.54	7,806.82	155.74	155.38	90.00	-8,646.77	228.16	870.40	560.29	310.11	2.807					
15,500.00	7,806.83	15,410.54	7,806.82	157.47	157.12	90.00	-8,746.77	228.75	870.41	556.81	313.60	2.776					
15,600.00	7,806.82	15,510.54	7,806.82	159.20	158.87	90.00	-8,846.77	229.35	870.42	553.33	317.08	2.745					
15,700.00	7,806.82	15,610.54	7,806.82	160.93	160.61	90.00	-8,946.77	229.94	870.42	549.85	320.57	2.715					
15,800.00	7,806.82	15,710.54	7,806.81	162.67	162.36	90.00	-9,046.77	230.53	870.43	546.36	324.06	2.686					
15,900.00	7,806.82	15,810.54	7,806.81	164.40	164.11	90.00	-9,146.77	231.13	870.43	542.88	327.56	2.657					
16,000.00	7,806.81	15,910.54	7,806.81	166.14	165.85	90.00	-9,246.76	231.72	870.44	539.39	331.05	2.629					
16,100.00	7,806.81	16,010.54	7,806.81	167.87	167.60	90.00	-9,346.76	232.32	870.44	535.90	334.54	2.602					
16,200.00	7,806.81	16,110.54	7,806.80	169.61	169.35	90.00	-9,446.76	232.91	870.45	532.41	338.04	2.575					
16,300.00	7,806.81	16,210.54	7,806.80	171.35	171.10	90.00	-9,546.76	233.50	870.46	528.92	341.53	2.549					
16,400.00	7,806.81	16,310.54	7,806.80	173.09	172.85	90.00	-9,646.76	234.10	870.46	525.43	345.03	2.523					
16,500.00	7,806.80	16,410.54	7,806.80	174.83	174.60	90.00	-9,746.75	234.69	870.47	521.94	348.53	2.498					
16,600.00	7,806.80	16,510.54	7,806.79	176.57	176.35	90.00	-9,846.75	235.28	870.47	518.45	352.03	2.473					
16,700.00	7,806.80	16,610.54	7,806.79	178.31	178.10	90.00	-9,946.75	235.88	870.48	514.95	355.53	2.448					
16,800.00	7,806.80	16,710.54	7,806.79	180.05	179.85	90.00	-10,046.75	236.47	870.48	511.46	359.03	2.425					
16,900.00	7,806.79	16,810.54	7,806.79	181.79	181.60	90.00	-10,146.75	237.07	870.49	507.96	362.53	2.401					
17,000.00	7,806.79	16,910.54	7,806.78	183.53	183.36	90.00	-10,246.75	237.66	870.50	504.46	366.03	2.378					
17,100.00	7,806.79	17,010.54	7,806.78	185.27	185.11	90.00	-10,346.74	238.25	870.50	500.97	369.54	2.356					
17,200.00	7,806.79	17,110.54	7,806.78	187.02	186.86	90.00	-10,446.74	238.85	870.51	497.47	373.04	2.334					
17,300.00	7,806.78	17,210.54	7,806.78	188.76	188.61	90.00	-10,546.74	239.44	870.51	493.97	376.55	2.312					
17,400.00	7,806.78	17,310.54	7,806.77	190.51	190.37	90.00	-10,646.74	240.04	870.52	490.47	380.05	2.291					
17,500.00	7,806.78	17,410.54	7,806.77	192.25	192.12	90.00	-10,746.74	240.63	870.53	486.97	383.56	2.270					
17,600.00	7,806.78	17,510.54	7,806.77	194.00	193.88	90.00	-10,846.74	241.22	870.53	483.47	387.07	2.249					
17,700.00	7,806.77	17,610.54	7,806.77	195.74	195.63	90.00	-10,946.73	241.82	870.54	479.96	390.57	2.229					
17,800.00	7,806.77	17,710.54	7,806.76	197.49	197.39	90.00	-11,046.73	242.41	870.54	476.46	394.08	2.209					
17,900.00	7,806.77	17,811.38	7,806.80	199.24	199.16	90.00	-11,147.57	243.02	870.54	472.91	397.63	2.189					
17,958.10	7,806.77	17,869.47	7,806.98	200.25	200.18	90.01	-11,205.66	243.42	870.48	470.82	399.67	2.178					
17,973.82	7,807.00	17,877.44	7,807.00	200.53	200.32	90.00	-11,213.63	243.48	870.35	470.47	399.88	2.177 SF					
17,974.53	7,807.00	17,877.44	7,807.00	200.55	200.32	90.00	-11,213.63	243.48	870.36	470.49	399.87	2.177					

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.68	0.40	-71.98	71.98					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.40	-71.98	71.98	71.71	0.27	267.725		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.40	-71.98	71.98	70.99	0.99	73.016		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.40	-71.98	71.98	70.28	1.70	42.272		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.40	-71.98	71.98	69.56	2.42	29.747		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.40	-71.98	71.98	68.84	3.14	22.948		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.40	-71.98	71.98	68.13	3.85	18.679		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.40	-71.98	71.98	67.41	4.57	15.749		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.40	-71.98	71.98	66.69	5.29	13.613		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.40	-71.98	71.98	65.97	6.00	11.988		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.40	-71.98	71.98	65.26	6.72	10.709		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.68	0.40	-71.98	71.98	64.54	7.44	9.677	CC, ES	
1,200.00	1,199.98	1,200.02	1,199.98	4.06	4.08	138.04	0.40	-71.98	73.27	65.13	8.14	9.001		
1,300.00	1,299.84	1,299.84	1,299.84	4.40	4.44	140.59	0.40	-71.98	77.24	68.41	8.83	8.747		
1,400.00	1,399.45	1,401.17	1,401.15	4.74	4.78	143.35	-1.17	-71.12	83.13	73.62	9.51	8.739		
1,500.00	1,498.70	1,502.72	1,502.55	5.09	5.12	145.19	-5.89	-68.53	89.92	79.74	10.18	8.830		
1,600.00	1,597.47	1,604.45	1,603.88	5.46	5.46	146.25	-13.78	-64.22	97.49	86.62	10.86	8.974		
1,700.00	1,695.62	1,706.36	1,705.00	5.85	5.81	146.66	-24.84	-58.16	105.77	94.21	11.56	9.152		
1,800.00	1,793.06	1,808.42	1,805.75	6.27	6.18	146.56	-39.07	-50.37	114.74	102.47	12.27	9.352		
1,867.07	1,857.94	1,876.95	1,873.05	6.57	6.44	146.26	-50.38	-44.17	121.14	108.37	12.76	9.491		
1,900.00	1,889.69	1,910.63	1,906.01	6.72	6.57	146.04	-56.46	-40.84	124.23	111.22	13.01	9.549		
2,000.00	1,986.13	2,010.26	2,003.38	7.19	6.97	145.22	-75.02	-30.68	133.24	119.44	13.79	9.660		
2,100.00	2,082.57	2,109.84	2,100.69	7.68	7.38	144.50	-93.56	-20.53	142.27	127.66	14.60	9.744		
2,200.00	2,179.00	2,209.42	2,197.99	8.18	7.81	143.87	-112.11	-10.37	151.31	135.88	15.43	9.808		
2,300.00	2,275.44	2,309.00	2,295.30	8.69	8.24	143.32	-130.65	-0.22	160.38	144.10	16.27	9.855		
2,400.00	2,371.88	2,408.57	2,392.61	9.21	8.69	142.82	-149.20	9.94	169.45	152.32	17.13	9.890		
2,500.00	2,468.31	2,508.15	2,489.91	9.74	9.14	142.37	-167.74	20.09	178.54	160.53	18.01	9.915		
2,600.00	2,564.75	2,607.73	2,587.22	10.28	9.59	141.97	-186.29	30.25	187.64	168.75	18.89	9.932		
2,700.00	2,661.19	2,707.30	2,684.53	10.82	10.06	141.60	-204.83	40.40	196.74	176.96	19.79	9.942		
2,800.00	2,757.62	2,806.88	2,781.83	11.37	10.52	141.26	-223.38	50.55	205.86	185.16	20.69	9.948		
2,900.00	2,854.06	2,906.46	2,879.14	11.92	10.99	140.96	-241.92	60.71	214.98	193.37	21.61	9.950		
3,000.00	2,950.50	3,006.03	2,976.44	12.47	11.47	140.68	-260.47	70.86	224.10	201.58	22.53	9.949		
3,100.00	3,046.93	3,105.61	3,073.75	13.03	11.94	140.42	-279.01	81.02	233.23	209.78	23.45	9.945		
3,200.00	3,143.37	3,205.19	3,171.06	13.59	12.43	140.18	-297.55	91.17	242.37	217.98	24.38	9.940		
3,300.00	3,239.81	3,304.77	3,268.36	14.15	12.91	139.96	-316.10	101.33	251.51	226.18	25.32	9.933		
3,400.00	3,336.24	3,404.34	3,365.67	14.72	13.39	139.75	-334.64	111.48	260.65	234.38	26.26	9.925		
3,500.00	3,432.68	3,503.92	3,462.98	15.28	13.88	139.56	-353.19	121.64	269.79	242.58	27.21	9.916		
3,600.00	3,529.12	3,603.50	3,560.28	15.85	14.37	139.38	-371.73	131.79	278.94	250.78	28.16	9.906		
3,700.00	3,625.55	3,703.07	3,657.59	16.42	14.86	139.21	-390.28	141.94	288.09	258.98	29.11	9.896		
3,800.00	3,721.99	3,802.65	3,754.90	16.99	15.35	139.05	-408.82	152.10	297.24	267.18	30.07	9.886		
3,900.00	3,818.43	3,902.23	3,852.20	17.56	15.84	138.90	-427.37	162.25	306.40	275.37	31.02	9.876		
4,000.00	3,914.86	4,001.80	3,949.51	18.14	16.34	138.76	-445.91	172.41	315.56	283.57	31.99	9.865		
4,100.00	4,011.30	4,101.38	4,046.82	18.71	16.83	138.63	-464.46	182.56	324.71	291.76	32.95	9.855		
4,200.00	4,107.74	4,200.96	4,144.12	19.29	17.33	138.50	-483.00	192.72	333.87	299.96	33.92	9.844		
4,300.00	4,204.17	4,300.54	4,241.43	19.86	17.83	138.39	-501.55	202.87	343.04	308.15	34.88	9.834		
4,400.00	4,300.61	4,400.11	4,338.74	20.44	18.32	138.27	-520.09	213.02	352.20	316.35	35.85	9.824		
4,500.00	4,397.05	4,500.31	4,436.04	21.02	18.83	138.17	-538.64	223.18	361.36	324.54	36.83	9.813		
4,600.00	4,493.48	4,600.73	4,533.35	21.59	19.33	138.07	-557.18	233.33	370.53	332.73	37.80	9.801		
4,700.00	4,589.92	4,701.16	4,630.66	22.17	19.83	137.97	-575.72	243.49	379.70	340.91	38.78	9.791		
4,800.00	4,686.36	4,801.58	4,727.96	22.75	20.34	137.88	-594.27	253.64	388.86	349.10	39.76	9.780		
4,900.00	4,782.79	4,902.00	4,825.27	23.33	20.84	137.79	-612.81	263.80	398.03	357.29	40.74	9.770		
5,000.00	4,879.23	5,002.43	4,922.58	23.91	21.35	137.71	-631.36	273.95	407.20	365.48	41.72	9.759		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,102.85	5,019.88	24.49	21.86	137.63	-649.90	284.11	416.37	373.66	42.71	9.749		
5,200.00	5,072.10	5,203.27	5,117.19	25.07	22.36	137.55	-668.45	294.26	425.54	381.85	43.69	9.740		
5,300.00	5,168.54	5,303.69	5,214.50	25.66	22.87	137.48	-686.99	304.41	434.72	390.04	44.68	9.730		
5,400.00	5,264.98	5,395.88	5,311.80	26.24	23.34	137.41	-705.54	314.57	443.89	398.26	45.62	9.729		
5,500.00	5,361.41	5,504.54	5,409.11	26.82	23.89	137.34	-724.08	324.72	453.06	406.41	46.65	9.712		
5,600.00	5,457.85	5,604.96	5,506.41	27.40	24.40	137.27	-742.63	334.88	462.23	414.60	47.64	9.703		
5,700.00	5,554.29	5,705.39	5,603.72	27.99	24.90	137.21	-761.17	345.03	471.41	422.78	48.63	9.695		
5,800.00	5,650.72	5,805.81	5,701.03	28.57	25.41	137.15	-779.72	355.19	480.58	430.97	49.61	9.686		
5,900.00	5,747.16	5,906.23	5,798.33	29.15	25.92	137.10	-798.26	365.34	489.76	439.15	50.60	9.678		
6,000.00	5,843.60	6,006.66	5,895.64	29.74	26.43	137.04	-816.80	375.49	498.93	447.34	51.59	9.670		
6,100.00	5,940.03	6,107.08	5,992.95	30.32	26.94	136.99	-835.35	385.65	508.11	455.53	52.59	9.662		
6,200.00	6,036.47	6,207.50	6,090.25	30.90	27.45	136.93	-853.89	395.80	517.29	463.71	53.58	9.655		
6,300.00	6,132.91	6,307.93	6,187.56	31.49	27.96	136.89	-872.44	405.96	526.46	471.90	54.57	9.648		
6,400.00	6,229.34	6,408.35	6,284.87	32.07	28.47	136.84	-890.98	416.11	535.64	480.08	55.56	9.640		
6,500.00	6,325.78	6,508.77	6,382.17	32.66	28.99	136.79	-909.53	426.27	544.82	488.26	56.56	9.633		
6,552.14	6,376.06	6,543.15	6,432.91	32.96	29.16	136.77	-919.20	431.56	549.61	492.62	56.99	9.645		
6,600.00	6,422.32	6,590.83	6,479.50	33.24	29.40	136.77	-928.08	436.42	553.71	496.25	57.46	9.636		
6,700.00	6,519.60	6,686.04	6,572.63	33.78	29.88	136.64	-945.46	445.94	560.62	502.19	58.43	9.595		
6,800.00	6,617.63	6,777.22	6,662.31	34.27	30.31	136.50	-959.89	453.84	566.38	507.07	59.31	9.550		
6,900.00	6,716.28	6,868.44	6,752.51	34.72	30.71	136.40	-971.80	460.37	571.13	511.01	60.12	9.500		
7,000.00	6,815.45	6,959.69	6,843.12	35.13	31.08	136.32	-981.19	465.51	574.88	514.02	60.86	9.446		
7,100.00	6,915.00	7,050.95	6,934.05	35.49	31.42	136.26	-988.05	469.26	577.62	516.09	61.53	9.388		
7,200.00	7,014.82	7,142.24	7,025.19	35.81	31.73	136.22	-992.37	471.63	579.34	517.21	62.12	9.325		
7,300.00	7,114.79	7,233.53	7,116.46	36.09	32.01	136.21	-994.13	472.59	580.04	517.39	62.65	9.258		
7,319.21	7,134.00	7,251.07	7,134.00	36.14	32.06	-90.61	-994.18	472.62	580.06	517.32	62.74	9.245		
7,400.00	7,214.79	7,331.86	7,214.79	36.33	32.27	-90.61	-994.18	472.62	580.06	516.89	63.17	9.183		
7,419.21	7,234.00	7,351.07	7,234.00	36.37	32.32	-90.61	-994.18	472.62	580.06	516.79	63.27	9.168		
7,420.57	7,235.36	7,352.43	7,235.36	36.38	32.32	89.74	-994.18	472.62	580.06	516.79	63.28	9.167		
7,450.00	7,264.77	7,381.71	7,264.63	36.46	32.41	89.74	-995.00	472.62	580.06	516.61	63.46	9.141		
7,500.00	7,314.52	7,431.48	7,314.15	36.62	32.59	89.74	-999.81	472.65	580.06	516.24	63.82	9.089		
7,550.00	7,363.66	7,481.25	7,363.06	36.81	32.82	89.74	-1,008.90	472.71	580.06	515.80	64.26	9.026		
7,600.00	7,411.80	7,531.02	7,411.01	37.03	33.07	89.75	-1,022.21	472.79	580.06	515.28	64.78	8.954		
7,650.00	7,458.60	7,580.80	7,457.63	37.29	33.36	89.76	-1,039.62	472.89	580.06	514.70	65.37	8.874		
7,700.00	7,503.68	7,630.59	7,502.57	37.57	33.69	89.77	-1,061.02	473.02	580.06	514.04	66.02	8.786		
7,750.00	7,546.72	7,680.39	7,545.49	37.89	34.05	89.78	-1,086.24	473.17	580.07	513.32	66.75	8.691		
7,800.00	7,587.37	7,730.20	7,586.06	38.23	34.44	89.79	-1,115.09	473.34	580.07	512.53	67.53	8.589		
7,850.00	7,625.34	7,780.02	7,623.99	38.59	34.86	89.81	-1,147.37	473.53	580.07	511.68	68.38	8.482		
7,900.00	7,660.33	7,829.85	7,658.98	38.99	35.31	89.82	-1,182.83	473.74	580.07	510.77	69.29	8.371		
7,950.00	7,692.07	7,879.70	7,690.77	39.40	35.79	89.84	-1,221.21	473.97	580.07	509.81	70.26	8.256		
8,000.00	7,720.33	7,929.57	7,719.11	39.85	36.29	89.86	-1,262.22	474.22	580.07	508.79	71.28	8.138		
8,050.00	7,744.88	7,979.45	7,743.79	40.31	36.82	89.88	-1,305.56	474.47	580.07	507.73	72.34	8.018		
8,100.00	7,765.55	8,029.35	7,764.61	40.79	37.37	89.90	-1,350.89	474.74	580.07	506.62	73.45	7.898		
8,150.00	7,782.18	8,079.27	7,781.42	41.30	37.94	89.92	-1,397.88	475.02	580.07	505.49	74.59	7.777		
8,200.00	7,794.63	8,129.21	7,794.08	41.81	38.52	89.94	-1,446.17	475.31	580.08	504.32	75.76	7.657		
8,250.00	7,802.82	8,179.17	7,802.49	42.34	39.11	89.97	-1,495.40	475.60	580.08	503.13	76.95	7.539		
8,300.00	7,806.68	8,229.15	7,806.58	42.88	39.71	89.99	-1,545.19	475.90	580.08	501.93	78.15	7.423		
8,319.29	7,807.00	8,253.85	7,807.00	43.09	40.00	90.00	-1,564.48	476.02	580.08	501.40	78.68	7.373		
8,400.00	7,807.00	8,329.15	7,807.00	43.98	40.92	90.00	-1,645.18	476.50	580.08	499.50	80.58	7.199		
8,500.00	7,807.00	8,429.15	7,807.00	45.12	42.18	90.00	-1,745.18	477.09	580.09	496.99	83.10	6.981		
8,600.00	7,806.99	8,529.15	7,807.00	46.31	43.47	90.00	-1,845.18	477.69	580.09	494.41	85.68	6.770		
8,700.00	7,806.99	8,629.15	7,806.99	47.53	44.79	90.00	-1,945.18	478.28	580.10	491.76	88.34	6.567		
8,800.00	7,806.99	8,729.15	7,806.99	48.78	46.14	90.00	-2,045.18	478.88	580.10	489.05	91.05	6.371		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	8,829.15	7,806.99	50.07	47.52	90.00	-2,145.18	479.47	580.10	486.28	93.82	6.183		
9,000.00	7,806.98	8,929.15	7,806.99	51.38	48.93	90.00	-2,245.17	480.07	580.11	483.47	96.64	6.003		
9,100.00	7,806.98	9,029.15	7,806.99	52.72	50.35	90.00	-2,345.17	480.67	580.11	480.61	99.51	5.830		
9,200.00	7,806.98	9,129.15	7,806.99	54.09	51.80	90.00	-2,445.17	481.26	580.12	477.70	102.42	5.664		
9,300.00	7,806.98	9,229.15	7,806.99	55.48	53.27	90.00	-2,545.17	481.86	580.12	474.76	105.37	5.506		
9,400.00	7,806.97	9,329.15	7,806.98	56.89	54.76	90.00	-2,645.17	482.45	580.13	471.78	108.35	5.354		
9,500.00	7,806.97	9,429.15	7,806.98	58.32	56.26	90.00	-2,745.17	483.05	580.13	468.76	111.37	5.209		
9,600.00	7,806.97	9,529.15	7,806.98	59.77	57.78	90.00	-2,845.16	483.64	580.13	465.72	114.41	5.070		
9,700.00	7,806.97	9,629.15	7,806.98	61.23	59.31	90.00	-2,945.16	484.24	580.14	462.65	117.49	4.938		
9,800.00	7,806.96	9,729.15	7,806.98	62.71	60.86	90.00	-3,045.16	484.83	580.14	459.55	120.59	4.811		
9,900.00	7,806.96	9,829.15	7,806.98	64.21	62.42	90.00	-3,145.16	485.43	580.15	456.43	123.72	4.689		
10,000.00	7,806.96	9,929.15	7,806.97	65.72	63.99	90.00	-3,245.16	486.03	580.15	453.28	126.87	4.573		
10,100.00	7,806.96	10,029.15	7,806.97	67.24	65.57	90.00	-3,345.15	486.62	580.15	450.12	130.03	4.462		
10,200.00	7,806.95	10,129.15	7,806.97	68.78	67.16	90.00	-3,445.15	487.22	580.16	446.94	133.22	4.355		
10,300.00	7,806.95	10,229.15	7,806.97	70.32	68.75	90.00	-3,545.15	487.81	580.16	443.74	136.43	4.253		
10,400.00	7,806.95	10,329.15	7,806.97	71.88	70.36	90.00	-3,645.15	488.41	580.17	440.52	139.65	4.155		
10,500.00	7,806.95	10,429.15	7,806.97	73.45	71.97	90.00	-3,745.15	489.00	580.17	437.29	142.88	4.060		
10,600.00	7,806.95	10,529.15	7,806.97	75.02	73.60	90.00	-3,845.15	489.60	580.17	434.04	146.14	3.970		
10,700.00	7,806.94	10,629.15	7,806.96	76.61	75.22	90.00	-3,945.14	490.19	580.18	430.78	149.40	3.883		
10,800.00	7,806.94	10,729.15	7,806.96	78.20	76.86	90.00	-4,045.14	490.79	580.18	427.50	152.68	3.800		
10,900.00	7,806.94	10,829.15	7,806.96	79.80	78.50	90.00	-4,145.14	491.38	580.19	424.22	155.97	3.720		
11,000.00	7,806.94	10,929.15	7,806.96	81.41	80.15	90.00	-4,245.14	491.98	580.19	420.92	159.27	3.643		
11,100.00	7,806.93	11,029.15	7,806.96	83.02	81.80	90.00	-4,345.14	492.58	580.20	417.62	162.58	3.569		
11,200.00	7,806.93	11,129.15	7,806.96	84.64	83.45	90.00	-4,445.14	493.17	580.20	414.30	165.90	3.497		
11,300.00	7,806.93	11,229.15	7,806.95	86.27	85.11	90.00	-4,545.13	493.77	580.20	410.98	169.23	3.429		
11,400.00	7,806.93	11,329.15	7,806.95	87.90	86.78	90.00	-4,645.13	494.36	580.21	407.64	172.57	3.362		
11,500.00	7,806.92	11,429.15	7,806.95	89.54	88.45	90.00	-4,745.13	494.96	580.21	404.30	175.91	3.298		
11,600.00	7,806.92	11,529.15	7,806.95	91.18	90.12	90.00	-4,845.13	495.55	580.22	400.95	179.27	3.237		
11,700.00	7,806.92	11,629.15	7,806.95	92.83	91.80	90.00	-4,945.13	496.15	580.22	397.59	182.63	3.177		
11,800.00	7,806.92	11,729.15	7,806.95	94.48	93.48	90.00	-5,045.12	496.74	580.22	394.23	186.00	3.120		
11,900.00	7,806.91	11,829.15	7,806.95	96.14	95.17	90.00	-5,145.12	497.34	580.23	390.86	189.37	3.064		
12,000.00	7,806.91	11,929.15	7,806.94	97.80	96.85	90.00	-5,245.12	497.94	580.23	387.48	192.75	3.010		
12,100.00	7,806.91	12,029.15	7,806.94	99.46	98.54	90.00	-5,345.12	498.53	580.24	384.10	196.14	2.958		
12,200.00	7,806.91	12,129.15	7,806.94	101.13	100.24	90.00	-5,445.12	499.13	580.24	380.71	199.53	2.908		
12,300.00	7,806.90	12,229.15	7,806.94	102.80	101.93	90.00	-5,545.12	499.72	580.24	377.32	202.93	2.859		
12,400.00	7,806.90	12,329.15	7,806.94	104.47	103.63	90.00	-5,645.11	500.32	580.25	373.92	206.33	2.812		
12,500.00	7,806.90	12,429.15	7,806.94	106.15	105.33	90.00	-5,745.11	500.91	580.25	370.51	209.74	2.767		
12,600.00	7,806.90	12,529.15	7,806.93	107.83	107.04	90.00	-5,845.11	501.51	580.26	367.11	213.15	2.722		
12,700.00	7,806.89	12,629.15	7,806.93	109.52	108.74	90.00	-5,945.11	502.10	580.26	363.69	216.57	2.679		
12,800.00	7,806.89	12,729.15	7,806.93	111.20	110.45	90.00	-6,045.11	502.70	580.27	360.28	219.99	2.638		
12,900.00	7,806.89	12,829.15	7,806.93	112.89	112.16	90.00	-6,145.11	503.30	580.27	356.86	223.41	2.597		
13,000.00	7,806.89	12,929.15	7,806.93	114.59	113.87	90.00	-6,245.10	503.89	580.27	353.43	226.84	2.558		
13,100.00	7,806.88	13,029.15	7,806.93	116.28	115.59	90.00	-6,345.10	504.49	580.28	350.01	230.27	2.520		
13,200.00	7,806.88	13,129.15	7,806.92	117.98	117.30	90.00	-6,445.10	505.08	580.28	346.57	233.71	2.483		
13,300.00	7,806.88	13,229.15	7,806.92	119.68	119.02	90.00	-6,545.10	505.68	580.29	343.14	237.15	2.447		
13,400.00	7,806.88	13,329.15	7,806.92	121.38	120.74	90.00	-6,645.10	506.27	580.29	339.70	240.59	2.412		
13,500.00	7,806.88	13,429.15	7,806.92	123.08	122.46	90.00	-6,745.09	506.87	580.29	336.26	244.03	2.378		
13,600.00	7,806.87	13,529.15	7,806.92	124.79	124.18	90.00	-6,845.09	507.46	580.30	332.82	247.48	2.345		
13,700.00	7,806.87	13,629.15	7,806.92	126.49	125.90	90.00	-6,945.09	508.06	580.30	329.37	250.93	2.313		
13,800.00	7,806.87	13,729.15	7,806.92	128.20	127.63	90.00	-7,045.09	508.66	580.31	325.92	254.38	2.281		
13,900.00	7,806.87	13,829.15	7,806.91	129.91	129.35	90.00	-7,145.09	509.25	580.31	322.47	257.84	2.251		
14,000.00	7,806.86	13,929.15	7,806.91	131.62	131.08	90.00	-7,245.09	509.85	580.31	319.02	261.30	2.221		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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				
14,100.00	7,806.86	14,029.15	7,806.91	133.34	132.81	90.00	-7,345.08	510.44	580.32	315.56	264.76	2.192				
14,200.00	7,806.86	14,129.15	7,806.91	135.05	134.54	90.01	-7,445.08	511.04	580.32	312.10	268.22	2.164				
14,300.00	7,806.86	14,229.15	7,806.91	136.77	136.27	90.01	-7,545.08	511.63	580.33	308.64	271.68	2.136				
14,400.00	7,806.85	14,329.15	7,806.91	138.49	138.00	90.01	-7,645.08	512.23	580.33	305.18	275.15	2.109				
14,500.00	7,806.85	14,429.15	7,806.90	140.21	139.73	90.01	-7,745.08	512.82	580.34	301.72	278.62	2.083				
14,600.00	7,806.85	14,529.15	7,806.90	141.93	141.47	90.01	-7,845.08	513.42	580.34	298.25	282.09	2.057				
14,700.00	7,806.85	14,629.15	7,806.90	143.65	143.20	90.01	-7,945.07	514.02	580.34	294.78	285.56	2.032				
14,800.00	7,806.84	14,729.15	7,806.90	145.37	144.94	90.01	-8,045.07	514.61	580.35	291.31	289.04	2.008				
14,900.00	7,806.84	14,829.15	7,806.90	147.10	146.67	90.01	-8,145.07	515.21	580.35	287.84	292.51	1.984				
15,000.00	7,806.84	14,929.15	7,806.90	148.83	148.41	90.01	-8,245.07	515.80	580.36	284.36	295.99	1.961				
15,100.00	7,806.84	15,029.15	7,806.90	150.55	150.15	90.01	-8,345.07	516.40	580.36	280.89	299.47	1.938				
15,200.00	7,806.83	15,129.15	7,806.89	152.28	151.89	90.01	-8,445.06	516.99	580.36	277.41	302.95	1.916				
15,300.00	7,806.83	15,229.15	7,806.89	154.01	153.63	90.01	-8,545.06	517.59	580.37	273.93	306.43	1.894				
15,400.00	7,806.83	15,329.15	7,806.89	155.74	155.37	90.01	-8,645.06	518.18	580.37	270.45	309.92	1.873				
15,500.00	7,806.83	15,429.15	7,806.89	157.47	157.11	90.01	-8,745.06	518.78	580.38	266.97	313.40	1.852				
15,600.00	7,806.82	15,529.15	7,806.89	159.20	158.85	90.01	-8,845.06	519.38	580.38	263.49	316.89	1.831				
15,700.00	7,806.82	15,629.15	7,806.89	160.93	160.60	90.01	-8,945.06	519.97	580.38	260.01	320.38	1.812				
15,800.00	7,806.82	15,729.15	7,806.88	162.67	162.34	90.01	-9,045.05	520.57	580.39	256.52	323.87	1.792				
15,900.00	7,806.82	15,829.15	7,806.88	164.40	164.08	90.01	-9,145.05	521.16	580.39	253.03	327.36	1.773				
16,000.00	7,806.81	15,929.15	7,806.88	166.14	165.83	90.01	-9,245.05	521.76	580.40	249.55	330.85	1.754				
16,100.00	7,806.81	16,029.15	7,806.88	167.87	167.57	90.01	-9,345.05	522.35	580.40	246.06	334.34	1.736				
16,200.00	7,806.81	16,129.15	7,806.88	169.61	169.32	90.01	-9,445.05	522.95	580.41	242.57	337.84	1.718				
16,300.00	7,806.81	16,229.15	7,806.88	171.35	171.07	90.01	-9,545.05	523.54	580.41	239.08	341.33	1.700				
16,400.00	7,806.81	16,329.15	7,806.88	173.09	172.81	90.01	-9,645.04	524.14	580.41	235.58	344.83	1.683				
16,500.00	7,806.80	16,429.15	7,806.87	174.83	174.56	90.01	-9,745.04	524.74	580.42	232.09	348.33	1.666				
16,600.00	7,806.80	16,529.15	7,806.87	176.57	176.31	90.01	-9,845.04	525.33	580.42	228.60	351.82	1.650				
16,700.00	7,806.80	16,629.15	7,806.87	178.31	178.06	90.01	-9,945.04	525.93	580.43	225.10	355.32	1.634				
16,800.00	7,806.80	16,729.15	7,806.87	180.05	179.81	90.01	-10,045.04	526.52	580.43	221.61	358.82	1.618				
16,900.00	7,806.79	16,829.15	7,806.87	181.79	181.56	90.01	-10,145.03	527.12	580.43	218.11	362.32	1.602				
17,000.00	7,806.79	16,929.15	7,806.87	183.53	183.30	90.01	-10,245.03	527.71	580.44	214.61	365.83	1.587				
17,100.00	7,806.79	17,029.15	7,806.86	185.27	185.06	90.01	-10,345.03	528.31	580.44	211.11	369.33	1.572				
17,200.00	7,806.79	17,129.15	7,806.86	187.02	186.81	90.01	-10,445.03	528.90	580.45	207.61	372.83	1.557				
17,300.00	7,806.78	17,229.15	7,806.86	188.76	188.56	90.01	-10,545.03	529.50	580.45	204.11	376.34	1.542				
17,400.00	7,806.78	17,329.15	7,806.86	190.51	190.31	90.01	-10,645.03	530.10	580.45	200.61	379.84	1.528				
17,500.00	7,806.78	17,429.15	7,806.86	192.25	192.06	90.01	-10,745.02	530.69	580.46	197.11	383.35	1.514				
17,600.00	7,806.78	17,529.15	7,806.86	194.00	193.81	90.01	-10,845.02	531.29	580.46	193.61	386.86	1.500				
17,700.00	7,806.77	17,629.15	7,806.86	195.74	195.57	90.01	-10,945.02	531.88	580.47	190.10	390.36	1.487 Level 3				
17,800.00	7,806.77	17,729.15	7,806.85	197.49	197.32	90.01	-11,045.02	532.48	580.47	186.60	393.87	1.474 Level 3				
17,900.00	7,806.77	17,829.19	7,806.90	199.24	199.07	90.01	-11,145.05	533.07	580.47	183.09	397.38	1.461 Level 3				
17,973.82	7,807.00	17,903.00	7,807.01	200.53	200.37	90.00	-11,218.87	533.52	580.32	180.35	399.97	1.451 Level 3				
17,974.53	7,807.00	17,903.72	7,807.01	200.55	200.38	90.00	-11,219.58	533.52	580.32	180.32	399.99	1.451 Level 3, SF				

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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 CC, ES		
1,200.00	1,199.98	1,199.98	1,199.98	4.06	4.08	138.94	0.20	-35.99	37.29	29.15	8.14	4.581		
1,300.00	1,299.84	1,300.84	1,300.82	4.40	4.42	141.95	-1.18	-34.88	40.14	31.32	8.82	4.553		
1,400.00	1,399.45	1,401.82	1,401.65	4.74	4.76	144.01	-5.33	-31.53	43.37	33.89	9.48	4.576		
1,500.00	1,498.70	1,502.91	1,502.35	5.09	5.10	145.29	-12.26	-25.95	46.92	36.78	10.15	4.624		
1,600.00	1,597.47	1,604.11	1,602.77	5.46	5.46	145.91	-21.96	-18.14	50.76	39.94	10.83	4.689		
1,700.00	1,695.62	1,705.42	1,702.80	5.85	5.83	146.01	-34.43	-8.09	54.87	43.35	11.52	4.764		
1,800.00	1,793.06	1,806.83	1,802.30	6.27	6.22	145.69	-49.66	4.18	59.23	47.00	12.23	4.843		
1,867.07	1,857.94	1,874.43	1,868.25	6.57	6.49	145.37	-61.24	13.50	62.40	49.67	12.73	4.902		
1,900.00	1,889.69	1,907.32	1,900.30	6.72	6.63	145.36	-66.96	18.11	64.18	51.20	12.98	4.943		
2,000.00	1,986.13	2,007.17	1,997.62	7.19	7.06	145.33	-84.36	32.12	69.58	55.81	13.77	5.053		
2,100.00	2,082.57	2,107.02	2,094.95	7.68	7.50	145.30	-101.76	46.14	74.98	60.40	14.58	5.144		
2,200.00	2,179.00	2,206.88	2,192.27	8.18	7.95	145.28	-119.15	60.15	80.38	64.98	15.40	5.221		
2,300.00	2,275.44	2,306.73	2,289.60	8.69	8.41	145.26	-136.55	74.16	85.78	69.55	16.23	5.285		
2,400.00	2,371.88	2,406.59	2,386.92	9.21	8.87	145.24	-153.94	88.17	91.17	74.10	17.07	5.341		
2,500.00	2,468.31	2,506.44	2,484.24	9.74	9.35	145.23	-171.34	102.19	96.57	78.65	17.93	5.387		
2,600.00	2,564.75	2,606.29	2,581.57	10.28	9.83	145.21	-188.74	116.20	101.97	83.18	18.79	5.428		
2,700.00	2,661.19	2,706.15	2,678.89	10.82	10.31	145.20	-206.13	130.21	107.37	87.71	19.66	5.462		
2,800.00	2,757.62	2,806.00	2,776.21	11.37	10.80	145.19	-223.53	144.22	112.77	92.24	20.53	5.492		
2,900.00	2,854.06	2,905.86	2,873.54	11.92	11.29	145.18	-240.92	158.24	118.17	96.76	21.41	5.519		
3,000.00	2,950.50	3,005.71	2,970.86	12.47	11.79	145.17	-258.32	172.25	123.57	101.27	22.30	5.542		
3,100.00	3,046.93	3,105.57	3,068.18	13.03	12.29	145.16	-275.72	186.26	128.97	105.78	23.19	5.562		
3,200.00	3,143.37	3,205.42	3,165.51	13.59	12.79	145.16	-293.11	200.28	134.37	110.28	24.08	5.580		
3,300.00	3,239.81	3,305.27	3,262.83	14.15	13.29	145.15	-310.51	214.29	139.77	114.79	24.98	5.595		
3,400.00	3,336.24	3,405.13	3,360.15	14.72	13.80	145.14	-327.90	228.30	145.16	119.29	25.88	5.609		
3,500.00	3,432.68	3,504.98	3,457.48	15.28	14.30	145.14	-345.30	242.31	150.56	123.78	26.78	5.622		
3,600.00	3,529.12	3,604.84	3,554.80	15.85	14.81	145.13	-362.70	256.33	155.96	128.28	27.69	5.633		
3,700.00	3,625.55	3,704.69	3,652.13	16.42	15.32	145.13	-380.09	270.34	161.36	132.77	28.59	5.643		
3,800.00	3,721.99	3,804.54	3,749.45	16.99	15.83	145.12	-397.49	284.35	166.76	137.26	29.50	5.652		
3,900.00	3,818.43	3,904.40	3,846.77	17.56	16.35	145.12	-414.89	298.36	172.16	141.74	30.42	5.660		
4,000.00	3,914.86	4,004.25	3,944.10	18.14	16.86	145.11	-432.28	312.38	177.56	146.23	31.33	5.668		
4,100.00	4,011.30	4,104.11	4,041.42	18.71	17.37	145.11	-449.68	326.39	182.96	150.71	32.24	5.674		
4,200.00	4,107.74	4,203.96	4,138.74	19.29	17.89	145.10	-467.07	340.40	188.36	155.20	33.16	5.680		
4,300.00	4,204.17	4,303.82	4,236.07	19.86	18.41	145.10	-484.47	354.41	193.76	159.68	34.08	5.686		
4,400.00	4,300.61	4,403.67	4,333.39	20.44	18.92	145.10	-501.87	368.43	199.16	164.16	35.00	5.691		
4,500.00	4,397.05	4,503.52	4,430.71	21.02	19.44	145.09	-519.26	382.44	204.55	168.64	35.92	5.695		
4,600.00	4,493.48	4,603.38	4,528.04	21.59	19.96	145.09	-536.66	396.45	209.95	173.12	36.84	5.700		
4,700.00	4,589.92	4,703.23	4,625.36	22.17	20.48	145.09	-554.05	410.46	215.35	177.59	37.76	5.704		
4,800.00	4,686.36	4,803.09	4,722.68	22.75	21.00	145.08	-571.45	424.48	220.75	182.07	38.68	5.707		
4,900.00	4,782.79	4,902.94	4,820.01	23.33	21.52	145.08	-588.85	438.49	226.15	186.55	39.60	5.710		
5,000.00	4,879.23	5,002.79	4,917.33	23.91	22.04	145.08	-606.24	452.50	231.55	191.02	40.53	5.713		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,102.65	5,014.65	24.49	22.56	145.08	-623.64	466.51	236.95	195.50	41.45	5.716		
5,200.00	5,072.10	5,202.50	5,111.98	25.07	23.08	145.07	-641.03	480.53	242.35	199.97	42.38	5.719		
5,300.00	5,168.54	5,302.36	5,209.30	25.66	23.60	145.07	-658.43	494.54	247.75	204.44	43.30	5.721		
5,400.00	5,264.98	5,402.21	5,306.63	26.24	24.12	145.07	-675.83	508.55	253.15	208.91	44.23	5.723		
5,500.00	5,361.41	5,502.07	5,403.95	26.82	24.64	145.07	-693.22	522.57	258.54	213.39	45.16	5.725		
5,600.00	5,457.85	5,601.92	5,501.27	27.40	25.17	145.07	-710.62	536.58	263.94	217.86	46.09	5.727		
5,700.00	5,554.29	5,701.77	5,598.60	27.99	25.69	145.06	-728.01	550.59	269.34	222.33	47.01	5.729		
5,800.00	5,650.72	5,801.63	5,695.92	28.57	26.21	145.06	-745.41	564.60	274.74	226.80	47.94	5.731		
5,900.00	5,747.16	5,901.48	5,793.24	29.15	26.73	145.06	-762.81	578.62	280.14	231.27	48.87	5.732		
6,000.00	5,843.60	6,001.34	5,890.57	29.74	27.26	145.06	-780.20	592.63	285.54	235.74	49.80	5.733		
6,100.00	5,940.03	6,101.19	5,987.89	30.32	27.78	145.06	-797.60	606.64	290.94	240.21	50.73	5.735		
6,200.00	6,036.47	6,201.04	6,085.21	30.90	28.31	145.06	-814.99	620.65	296.34	244.68	51.66	5.736		
6,300.00	6,132.91	6,300.90	6,182.54	31.49	28.83	145.05	-832.39	634.67	301.74	249.14	52.59	5.737		
6,400.00	6,229.34	6,400.75	6,279.86	32.07	29.35	145.05	-849.79	648.68	307.14	253.61	53.52	5.738		
6,500.00	6,325.78	6,500.61	6,377.18	32.66	29.88	145.05	-867.18	662.69	312.54	258.08	54.46	5.739		
6,552.14	6,376.06	6,552.67	6,427.93	32.96	30.15	145.05	-876.25	670.00	315.35	260.41	54.94	5.740		
6,600.00	6,422.32	6,600.48	6,474.52	33.24	30.40	145.04	-884.58	676.71	317.61	262.21	55.40	5.733		
6,700.00	6,519.60	6,700.42	6,571.93	33.78	30.93	144.71	-901.99	690.73	320.22	263.82	56.39	5.678		
6,800.00	6,617.63	6,800.33	6,669.32	34.27	31.45	144.00	-919.40	704.75	320.00	262.54	57.47	5.569		
6,900.00	6,716.28	6,899.18	6,765.66	34.72	31.97	142.90	-936.60	718.61	317.07	258.46	58.61	5.410		
7,000.00	6,815.45	6,991.72	6,856.26	35.13	32.44	141.70	-951.30	730.44	312.90	253.17	59.72	5.239		
7,100.00	6,915.00	7,084.50	6,947.64	35.49	32.87	140.50	-963.73	740.46	308.37	247.59	60.78	5.074		
7,200.00	7,014.82	7,177.50	7,039.73	35.81	33.27	139.28	-973.88	748.64	303.49	241.72	61.77	4.913		
7,300.00	7,114.79	7,270.75	7,132.42	36.09	33.63	138.03	-981.71	754.94	298.25	235.55	62.70	4.757		
7,319.21	7,134.00	7,288.69	7,150.30	36.14	33.70	-89.02	-982.95	755.94	297.20	234.33	62.87	4.727		
7,400.00	7,214.79	7,364.31	7,225.72	36.33	33.96	-89.84	-987.20	759.37	293.49	229.97	63.52	4.621		
7,419.21	7,234.00	7,382.33	7,243.71	36.37	34.02	-89.99	-987.99	760.00	292.81	229.15	63.66	4.600		
7,450.00	7,264.77	7,411.25	7,272.59	36.46	34.12	90.38	-989.06	760.87	291.89	228.06	63.84	4.573		
7,500.00	7,314.52	7,458.09	7,319.41	36.62	34.26	91.14	-990.32	761.88	290.86	226.93	63.93	4.550		
7,540.68	7,354.56	7,495.77	7,357.07	36.77	34.38	92.36	-990.91	762.35	290.56	226.72	63.83	4.552		
7,550.00	7,363.66	7,504.31	7,365.62	36.81	34.40	92.71	-990.98	762.41	290.58	226.79	63.78	4.556		
7,600.00	7,411.80	7,550.50	7,411.80	37.03	34.52	95.04	-991.10	762.51	291.40	228.01	63.40	4.597		
7,650.00	7,458.60	7,602.71	7,458.60	37.29	34.65	98.03	-991.10	762.51	293.55	230.69	62.86	4.670		
7,700.00	7,503.68	7,643.51	7,504.82	37.57	34.76	101.45	-991.18	762.51	297.57	235.42	62.15	4.788		
7,750.00	7,546.72	7,695.00	7,556.19	37.89	34.92	105.25	-994.38	762.53	303.42	241.73	61.69	4.919		
7,800.00	7,587.37	7,749.10	7,609.63	38.23	35.14	108.93	-1,002.68	762.58	310.76	249.29	61.47	5.056		
7,850.00	7,625.34	7,806.15	7,664.86	38.59	35.40	112.47	-1,016.86	762.66	319.33	257.89	61.44	5.198		
7,900.00	7,660.33	7,866.53	7,721.48	38.99	35.74	115.83	-1,037.76	762.78	328.84	267.31	61.53	5.344		
7,950.00	7,692.07	7,930.64	7,778.83	39.40	36.14	118.99	-1,066.34	762.95	338.94	277.28	61.66	5.497		
8,000.00	7,720.33	7,998.84	7,835.93	39.85	36.61	121.91	-1,103.56	763.17	349.22	287.47	61.74	5.656		
8,050.00	7,744.88	8,071.44	7,891.39	40.31	37.18	124.56	-1,150.33	763.45	359.24	297.47	61.78	5.815		
8,100.00	7,765.55	8,148.58	7,943.34	40.79	37.84	126.89	-1,207.28	763.79	368.56	306.77	61.79	5.965		
8,150.00	7,782.18	8,230.18	7,989.44	41.30	38.61	128.84	-1,274.52	764.19	376.70	314.79	61.91	6.085		
8,200.00	7,794.63	8,315.85	8,027.06	41.81	39.48	130.36	-1,351.40	764.64	383.23	320.89	62.35	6.147		
8,250.00	7,802.82	8,404.80	8,053.55	42.34	40.43	131.40	-1,436.22	765.15	387.78	324.43	63.35	6.121		
8,300.00	7,806.68	8,495.88	8,066.75	42.88	41.45	131.91	-1,526.24	765.68	390.06	324.92	65.13	5.989		
8,319.29	7,807.00	8,531.29	8,067.99	43.09	41.85	131.97	-1,561.62	765.89	390.30	324.24	66.05	5.909		
8,400.00	7,807.00	8,613.13	8,068.00	43.98	42.79	131.97	-1,643.46	766.38	390.30	322.67	67.63	5.771		
8,500.00	7,807.00	8,713.13	8,068.00	45.12	43.98	131.97	-1,743.45	766.97	390.31	320.73	69.58	5.609		
8,600.00	7,806.99	8,813.13	8,068.00	46.31	45.21	131.97	-1,843.45	767.56	390.31	318.72	71.60	5.452		
8,700.00	7,806.99	8,913.13	8,067.99	47.53	46.47	131.97	-1,943.45	768.15	390.32	316.66	73.66	5.299		
8,800.00	7,806.99	9,013.13	8,067.99	48.78	47.76	131.97	-2,043.45	768.75	390.33	314.54	75.78	5.151		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,113.13	8,067.99	50.07	49.08	131.96	-2,143.45	769.34	390.33	312.38	77.95	5.008		
9,000.00	7,806.98	9,213.13	8,067.99	51.38	50.44	131.96	-2,243.45	769.93	390.34	310.18	80.15	4.870		
9,100.00	7,806.98	9,313.13	8,067.99	52.72	51.81	131.96	-2,343.44	770.53	390.34	307.94	82.40	4.737		
9,200.00	7,806.98	9,413.13	8,067.99	54.09	53.21	131.96	-2,443.44	771.12	390.35	305.67	84.68	4.610		
9,300.00	7,806.98	9,513.13	8,067.98	55.48	54.63	131.96	-2,543.44	771.71	390.35	303.36	86.99	4.487		
9,400.00	7,806.97	9,613.13	8,067.98	56.89	56.07	131.96	-2,643.44	772.31	390.36	301.02	89.34	4.369		
9,500.00	7,806.97	9,713.13	8,067.98	58.32	57.53	131.96	-2,743.44	772.90	390.36	298.65	91.71	4.256		
9,600.00	7,806.97	9,813.13	8,067.98	59.77	59.01	131.96	-2,843.44	773.50	390.37	296.26	94.11	4.148		
9,700.00	7,806.97	9,913.13	8,067.98	61.23	60.50	131.96	-2,943.43	774.09	390.37	293.84	96.53	4.044		
9,800.00	7,806.96	10,013.13	8,067.98	62.71	62.01	131.96	-3,043.43	774.68	390.38	291.40	98.98	3.944		
9,900.00	7,806.96	10,113.13	8,067.98	64.21	63.53	131.96	-3,143.43	775.28	390.38	288.94	101.44	3.848		
10,000.00	7,806.96	10,213.13	8,067.97	65.72	65.06	131.96	-3,243.43	775.87	390.39	286.46	103.93	3.756		
10,100.00	7,806.96	10,313.13	8,067.97	67.24	66.61	131.96	-3,343.43	776.47	390.39	283.96	106.43	3.668		
10,200.00	7,806.95	10,413.13	8,067.97	68.78	68.17	131.96	-3,443.43	777.06	390.40	281.45	108.95	3.583		
10,300.00	7,806.95	10,513.13	8,067.97	70.32	69.73	131.96	-3,543.43	777.66	390.40	278.92	111.48	3.502		
10,400.00	7,806.95	10,613.13	8,067.97	71.88	71.31	131.96	-3,643.42	778.25	390.40	276.38	114.03	3.424		
10,500.00	7,806.95	10,713.13	8,067.97	73.45	72.90	131.96	-3,743.42	778.85	390.41	273.82	116.59	3.349		
10,600.00	7,806.95	10,813.13	8,067.97	75.02	74.49	131.96	-3,843.42	779.44	390.41	271.25	119.17	3.276		
10,700.00	7,806.94	10,913.13	8,067.97	76.61	76.09	131.96	-3,943.42	780.03	390.42	268.66	121.75	3.207		
10,800.00	7,806.94	11,013.13	8,067.97	78.20	77.70	131.96	-4,043.42	780.63	390.42	266.07	124.35	3.140		
10,900.00	7,806.94	11,113.13	8,067.97	79.80	79.32	131.96	-4,143.42	781.22	390.43	263.47	126.96	3.075		
11,000.00	7,806.94	11,213.13	8,067.96	81.41	80.94	131.96	-4,243.41	781.82	390.43	260.85	129.58	3.013		
11,100.00	7,806.93	11,313.13	8,067.96	83.02	82.57	131.96	-4,343.41	782.42	390.44	258.23	132.20	2.953		
11,200.00	7,806.93	11,413.13	8,067.96	84.64	84.20	131.96	-4,443.41	783.01	390.44	255.60	134.84	2.896		
11,300.00	7,806.93	11,513.13	8,067.96	86.27	85.84	131.96	-4,543.41	783.61	390.44	252.96	137.48	2.840		
11,400.00	7,806.93	11,613.13	8,067.96	87.90	87.49	131.96	-4,643.41	784.20	390.45	250.31	140.14	2.786		
11,500.00	7,806.92	11,713.13	8,067.96	89.54	89.14	131.96	-4,743.41	784.80	390.45	247.66	142.80	2.734		
11,600.00	7,806.92	11,813.13	8,067.96	91.18	90.79	131.95	-4,843.40	785.39	390.46	245.00	145.46	2.684		
11,700.00	7,806.92	11,913.13	8,067.96	92.83	92.45	131.95	-4,943.40	785.99	390.46	242.33	148.13	2.636		
11,800.00	7,806.92	12,013.13	8,067.96	94.48	94.12	131.95	-5,043.40	786.58	390.47	239.65	150.81	2.589		
11,900.00	7,806.91	12,113.13	8,067.96	96.14	95.78	131.95	-5,143.40	787.18	390.47	236.97	153.50	2.544		
12,000.00	7,806.91	12,213.13	8,067.96	97.80	97.45	131.95	-5,243.40	787.78	390.47	234.29	156.19	2.500		
12,100.00	7,806.91	12,313.13	8,067.96	99.46	99.13	131.95	-5,343.40	788.37	390.48	231.60	158.88	2.458		
12,200.00	7,806.91	12,413.13	8,067.96	101.13	100.81	131.95	-5,443.39	788.97	390.48	228.90	161.58	2.417		
12,300.00	7,806.90	12,513.13	8,067.96	102.80	102.49	131.95	-5,543.39	789.57	390.49	226.20	164.29	2.377		
12,400.00	7,806.90	12,613.13	8,067.96	104.47	104.17	131.95	-5,643.39	790.16	390.49	223.49	166.99	2.338		
12,500.00	7,806.90	12,713.13	8,067.96	106.15	105.86	131.95	-5,743.39	790.76	390.49	220.78	169.71	2.301		
12,600.00	7,806.90	12,813.13	8,067.96	107.83	107.55	131.95	-5,843.39	791.35	390.50	218.07	172.43	2.265		
12,700.00	7,806.89	12,913.13	8,067.96	109.52	109.24	131.95	-5,943.39	791.95	390.50	215.35	175.15	2.230		
12,800.00	7,806.89	13,013.13	8,067.96	111.20	110.94	131.95	-6,043.38	792.55	390.50	212.63	177.87	2.195		
12,900.00	7,806.89	13,113.13	8,067.96	112.89	112.63	131.95	-6,143.38	793.15	390.51	209.91	180.60	2.162		
13,000.00	7,806.89	13,213.13	8,067.96	114.59	114.33	131.95	-6,243.38	793.74	390.51	207.18	183.33	2.130		
13,100.00	7,806.88	13,313.13	8,067.96	116.28	116.04	131.95	-6,343.38	794.34	390.51	204.45	186.07	2.099		
13,200.00	7,806.88	13,413.13	8,067.96	117.98	117.74	131.95	-6,443.38	794.94	390.52	201.71	188.81	2.068		
13,300.00	7,806.88	13,513.13	8,067.96	119.68	119.45	131.95	-6,543.38	795.53	390.52	198.97	191.55	2.039		
13,400.00	7,806.88	13,613.13	8,067.96	121.38	121.15	131.95	-6,643.38	796.13	390.53	196.23	194.29	2.010		
13,500.00	7,806.88	13,713.13	8,067.96	123.08	122.86	131.95	-6,743.37	796.73	390.53	193.49	197.04	1.982		
13,600.00	7,806.87	13,813.13	8,067.96	124.79	124.58	131.95	-6,843.37	797.33	390.53	190.74	199.79	1.955		
13,700.00	7,806.87	13,913.13	8,067.96	126.49	126.29	131.95	-6,943.37	797.92	390.54	188.00	202.54	1.928		
13,800.00	7,806.87	14,013.13	8,067.96	128.20	128.00	131.95	-7,043.37	798.52	390.54	185.24	205.29	1.902		
13,900.00	7,806.87	14,113.13	8,067.96	129.91	129.72	131.95	-7,143.37	799.12	390.54	182.49	208.05	1.877		
14,000.00	7,806.86	14,213.13	8,067.96	131.62	131.44	131.95	-7,243.37	799.72	390.54	179.74	210.81	1.853		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,313.13	8,067.96	133.34	133.16	131.95	-7,343.36	800.31	390.55	176.98	213.57	1.829		
14,200.00	7,806.86	14,413.13	8,067.96	135.05	134.88	131.95	-7,443.36	800.91	390.55	174.22	216.33	1.805		
14,300.00	7,806.86	14,513.13	8,067.96	136.77	136.60	131.95	-7,543.36	801.51	390.55	171.46	219.10	1.783		
14,400.00	7,806.85	14,613.14	8,067.96	138.49	138.32	131.95	-7,643.36	802.11	390.56	168.69	221.86	1.760		
14,500.00	7,806.85	14,713.14	8,067.96	140.21	140.05	131.96	-7,743.36	802.71	390.56	165.93	224.63	1.739		
14,600.00	7,806.85	14,813.14	8,067.96	141.93	141.78	131.96	-7,843.36	803.31	390.56	163.16	227.40	1.717		
14,700.00	7,806.85	14,913.14	8,067.96	143.65	143.50	131.96	-7,943.35	803.90	390.57	160.39	230.17	1.697		
14,800.00	7,806.84	15,013.14	8,067.96	145.37	145.23	131.96	-8,043.35	804.50	390.57	157.62	232.95	1.677		
14,900.00	7,806.84	15,113.14	8,067.96	147.10	146.96	131.96	-8,143.35	805.10	390.57	154.85	235.72	1.657		
15,000.00	7,806.84	15,213.14	8,067.96	148.83	148.69	131.96	-8,243.35	805.70	390.57	152.08	238.50	1.638		
15,100.00	7,806.84	15,313.14	8,067.96	150.55	150.42	131.96	-8,343.35	806.30	390.58	149.30	241.28	1.619		
15,200.00	7,806.83	15,413.14	8,067.96	152.28	152.15	131.96	-8,443.35	806.90	390.58	146.52	244.06	1.600		
15,300.00	7,806.83	15,513.14	8,067.96	154.01	153.89	131.96	-8,543.34	807.50	390.58	143.75	246.84	1.582		
15,400.00	7,806.83	15,613.14	8,067.97	155.74	155.62	131.96	-8,643.34	808.10	390.58	140.97	249.62	1.565		
15,500.00	7,806.83	15,713.14	8,067.97	157.47	157.36	131.96	-8,743.34	808.70	390.59	138.19	252.40	1.547		
15,600.00	7,806.82	15,813.14	8,067.97	159.20	159.09	131.96	-8,843.34	809.29	390.59	135.41	255.18	1.531		
15,700.00	7,806.82	15,913.14	8,067.97	160.93	160.83	131.96	-8,943.34	809.89	390.59	132.62	257.97	1.514		
15,800.00	7,806.82	16,013.14	8,067.97	162.67	162.57	131.96	-9,043.34	810.49	390.59	129.84	260.76	1.498 Level 3		
15,900.00	7,806.82	16,113.14	8,067.97	164.40	164.30	131.96	-9,143.33	811.09	390.60	127.05	263.54	1.482 Level 3		
16,000.00	7,806.81	16,213.14	8,067.97	166.14	166.04	131.96	-9,243.33	811.69	390.60	124.27	266.33	1.467 Level 3		
16,100.00	7,806.81	16,313.14	8,067.97	167.87	167.78	131.96	-9,343.33	812.29	390.60	121.48	269.12	1.451 Level 3		
16,200.00	7,806.81	16,413.14	8,067.97	169.61	169.52	131.96	-9,443.33	812.89	390.60	118.69	271.91	1.437 Level 3		
16,300.00	7,806.81	16,513.14	8,067.97	171.35	171.26	131.96	-9,543.33	813.49	390.61	115.90	274.70	1.422 Level 3		
16,400.00	7,806.81	16,613.14	8,067.98	173.09	173.01	131.96	-9,643.33	814.09	390.61	113.11	277.50	1.408 Level 3		
16,500.00	7,806.80	16,713.14	8,067.98	174.83	174.75	131.96	-9,743.32	814.69	390.61	110.32	280.29	1.394 Level 3		
16,600.00	7,806.80	16,813.14	8,067.98	176.57	176.49	131.96	-9,843.32	815.29	390.61	107.53	283.08	1.380 Level 3		
16,700.00	7,806.80	16,913.14	8,067.98	178.31	178.24	131.96	-9,943.32	815.89	390.61	104.74	285.88	1.366 Level 3		
16,800.00	7,806.80	17,013.14	8,067.98	180.05	179.98	131.96	-10,043.32	816.49	390.62	101.94	288.67	1.353 Level 3		
16,900.00	7,806.79	17,113.14	8,067.98	181.79	181.72	131.96	-10,143.32	817.09	390.62	99.15	291.47	1.340 Level 3		
17,000.00	7,806.79	17,213.14	8,067.98	183.53	183.47	131.96	-10,243.32	817.69	390.62	96.35	294.27	1.327 Level 3		
17,100.00	7,806.79	17,313.14	8,067.99	185.27	185.22	131.96	-10,343.31	818.29	390.62	93.56	297.06	1.315 Level 3		
17,200.00	7,806.79	17,413.14	8,067.99	187.02	186.96	131.96	-10,443.31	818.90	390.62	90.76	299.86	1.303 Level 3		
17,300.00	7,806.78	17,513.14	8,067.99	188.76	188.71	131.97	-10,543.31	819.50	390.63	87.96	302.66	1.291 Level 3		
17,400.00	7,806.78	17,613.14	8,067.99	190.51	190.46	131.97	-10,643.31	820.10	390.63	85.17	305.46	1.279 Level 3		
17,500.00	7,806.78	17,713.14	8,067.99	192.25	192.20	131.97	-10,743.31	820.70	390.63	82.37	308.26	1.267 Level 3		
17,600.00	7,806.78	17,813.14	8,067.99	194.00	193.95	131.97	-10,843.31	821.30	390.63	79.57	311.06	1.256 Level 3		
17,700.00	7,806.77	17,913.14	8,068.00	195.74	195.70	131.97	-10,943.31	821.90	390.63	76.77	313.87	1.245 Level 2		
17,800.00	7,806.77	18,013.14	8,068.00	197.49	197.45	131.97	-11,043.30	822.50	390.63	73.97	316.67	1.234 Level 2		
17,900.00	7,806.77	18,113.14	8,068.00	199.24	199.20	131.97	-11,143.30	823.10	390.64	71.17	319.47	1.223 Level 2		
17,973.77	7,806.77	18,186.91	8,068.00	200.53	200.49	131.97	-11,217.07	823.55	390.64	69.10	321.54	1.215 Level 2		
17,973.82	7,807.00	18,186.96	8,068.00	200.53	200.49	131.96	-11,217.12	823.55	390.37	68.79	321.58	1.214 Level 2		
17,974.53	7,807.00	18,187.67	8,068.00	200.55	200.50	131.96	-11,217.83	823.55	390.37	68.77	321.59	1.214 Level 2, SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.20	35.99	35.99					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.20	35.99	35.99	35.72	0.27	133.857		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.20	35.99	35.99	35.00	0.99	36.507		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.20	35.99	35.99	34.29	1.70	21.135		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.20	35.99	35.99	33.57	2.42	14.873		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.20	35.99	35.99	32.85	3.14	11.473		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.20	35.99	35.99	32.13	3.85	9.339		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.20	35.99	35.99	31.42	4.57	7.874		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.20	35.99	35.99	30.70	5.29	6.806		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.20	35.99	35.99	29.98	6.00	5.994		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.32	-0.20	35.99	35.99	29.27	6.72	5.354 CC		
1,100.00	1,100.00	1,098.96	1,098.94	3.72	3.70	91.89	-1.23	37.35	37.39	29.97	7.42	5.040		
1,200.00	1,199.98	1,197.79	1,197.63	4.06	4.03	-38.70	-4.31	41.44	40.35	32.27	8.08	4.992		
1,300.00	1,299.84	1,296.50	1,295.97	4.40	4.37	-36.88	-9.43	48.23	43.56	34.83	8.74	4.987		
1,400.00	1,399.45	1,395.09	1,393.84	4.74	4.73	-35.73	-16.57	57.71	46.97	37.58	9.39	5.003		
1,500.00	1,498.70	1,493.56	1,491.12	5.09	5.09	-35.11	-25.73	69.86	50.54	40.50	10.05	5.031		
1,600.00	1,597.47	1,591.92	1,587.71	5.46	5.48	-34.92	-36.88	84.65	54.27	43.56	10.71	5.066		
1,700.00	1,695.62	1,690.15	1,683.50	5.85	5.89	-35.08	-50.00	102.05	58.14	46.75	11.39	5.103		
1,800.00	1,793.06	1,788.28	1,778.37	6.27	6.34	-35.53	-65.07	122.05	62.15	50.06	12.09	5.139		
1,867.07	1,857.94	1,854.02	1,841.43	6.57	6.66	-35.96	-76.25	136.89	64.92	52.34	12.58	5.162		
1,900.00	1,889.69	1,886.74	1,872.67	6.72	6.82	-36.16	-82.09	144.64	66.38	53.54	12.84	5.171		
2,000.00	1,986.13	1,986.64	1,968.07	7.19	7.34	-36.73	-99.93	168.31	70.84	57.18	13.66	5.185		
2,100.00	2,082.57	2,086.53	2,063.47	7.68	7.88	-37.22	-117.78	191.99	75.31	60.80	14.51	5.190		
2,200.00	2,179.00	2,186.43	2,158.86	8.18	8.43	-37.67	-135.63	215.67	79.79	64.41	15.38	5.188		
2,300.00	2,275.44	2,286.33	2,254.26	8.69	8.99	-38.06	-153.47	239.34	84.27	68.01	16.26	5.182		
2,400.00	2,371.88	2,386.23	2,349.66	9.21	9.56	-38.41	-171.32	263.02	88.75	71.59	17.16	5.172		
2,500.00	2,468.31	2,486.13	2,445.05	9.74	10.14	-38.73	-189.16	286.70	93.24	75.17	18.07	5.159		
2,600.00	2,564.75	2,586.02	2,540.45	10.28	10.73	-39.03	-207.01	310.38	97.73	78.73	19.00	5.145		
2,700.00	2,661.19	2,685.92	2,635.85	10.82	11.33	-39.29	-224.85	334.05	102.22	82.29	19.93	5.130		
2,800.00	2,757.62	2,785.82	2,731.24	11.37	11.92	-39.53	-242.70	357.73	106.72	85.85	20.87	5.114		
2,900.00	2,854.06	2,885.72	2,826.64	11.92	12.53	-39.76	-260.54	381.41	111.21	89.40	21.82	5.098		
3,000.00	2,950.50	2,985.62	2,922.04	12.47	13.13	-39.96	-278.39	405.09	115.71	92.94	22.77	5.081		
3,100.00	3,046.93	3,085.51	3,017.43	13.03	13.74	-40.15	-296.24	428.76	120.21	96.48	23.73	5.065		
3,200.00	3,143.37	3,185.41	3,112.83	13.59	14.36	-40.33	-314.08	452.44	124.71	100.01	24.70	5.050		
3,300.00	3,239.81	3,285.31	3,208.23	14.15	14.97	-40.49	-331.93	476.12	129.21	103.54	25.67	5.034		
3,400.00	3,336.24	3,385.21	3,303.62	14.72	15.59	-40.65	-349.77	499.79	133.71	107.07	26.64	5.019		
3,500.00	3,432.68	3,485.11	3,399.02	15.28	16.21	-40.79	-367.62	523.47	138.21	110.59	27.62	5.004		
3,600.00	3,529.12	3,585.00	3,494.42	15.85	16.83	-40.93	-385.46	547.15	142.72	114.11	28.60	4.990		
3,700.00	3,625.55	3,684.90	3,589.81	16.42	17.45	-41.05	-403.31	570.83	147.22	117.63	29.59	4.976		
3,800.00	3,721.99	3,784.80	3,685.21	16.99	18.07	-41.17	-421.15	594.50	151.73	121.15	30.57	4.962		
3,900.00	3,818.43	3,884.70	3,780.61	17.56	18.70	-41.28	-439.00	618.18	156.23	124.67	31.57	4.950		
4,000.00	3,914.86	3,984.59	3,876.00	18.14	19.32	-41.39	-456.85	641.86	160.74	128.18	32.56	4.937		
4,100.00	4,011.30	4,084.49	3,971.40	18.71	19.95	-41.49	-474.69	665.54	165.24	131.69	33.55	4.925		
4,200.00	4,107.74	4,184.39	4,068.80	19.29	20.58	-41.58	-492.54	689.21	169.75	135.20	34.55	4.913		
4,300.00	4,204.17	4,284.29	4,162.19	19.86	21.20	-41.67	-510.38	712.89	174.26	138.71	35.55	4.902		
4,400.00	4,300.61	4,384.19	4,257.59	20.44	21.83	-41.76	-528.23	736.57	178.77	142.22	36.55	4.891		
4,500.00	4,397.05	4,484.08	4,352.99	21.02	22.46	-41.84	-546.07	760.24	183.28	145.73	37.55	4.881		
4,600.00	4,493.48	4,583.98	4,448.39	21.59	23.09	-41.92	-563.92	783.92	187.78	149.23	38.55	4.871		
4,700.00	4,589.92	4,683.88	4,543.78	22.17	23.72	-41.99	-581.77	807.60	192.29	152.74	39.56	4.861		
4,800.00	4,686.36	4,783.78	4,639.18	22.75	24.36	-42.06	-599.61	831.28	196.80	156.24	40.56	4.852		
4,900.00	4,782.79	4,883.68	4,734.58	23.33	24.99	-42.13	-617.46	854.95	201.31	159.74	41.57	4.843		
5,000.00	4,879.23	4,983.57	4,829.97	23.91	25.62	-42.19	-635.30	878.63	205.82	163.24	42.58	4.834		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,083.47	4,925.37	24.49	26.25	-42.25	-653.15	902.31	210.33	166.74	43.59	4.825		
5,200.00	5,072.10	5,183.37	5,020.77	25.07	26.89	-42.31	-670.99	925.99	214.84	170.24	44.60	4.817		
5,300.00	5,168.54	5,283.27	5,116.16	25.66	27.52	-42.37	-688.84	949.66	219.35	173.74	45.61	4.809		
5,400.00	5,264.98	5,383.17	5,211.56	26.24	28.15	-42.42	-706.68	973.34	223.86	177.24	46.62	4.802		
5,500.00	5,361.41	5,483.06	5,306.96	26.82	28.79	-42.47	-724.53	997.02	228.38	180.74	47.63	4.794		
5,600.00	5,457.85	5,582.96	5,402.35	27.40	29.42	-42.52	-742.38	1,020.69	232.89	184.24	48.65	4.787		
5,700.00	5,554.29	5,682.86	5,497.75	27.99	30.06	-42.57	-760.22	1,044.37	237.40	187.74	49.66	4.780		
5,800.00	5,650.72	5,782.76	5,593.15	28.57	30.69	-42.62	-778.07	1,068.05	241.91	191.23	50.68	4.774		
5,900.00	5,747.16	5,882.66	5,688.54	29.15	31.33	-42.66	-795.91	1,091.73	246.42	194.73	51.69	4.767		
6,000.00	5,843.60	5,982.55	5,783.94	29.74	31.96	-42.70	-813.76	1,115.40	250.93	198.23	52.71	4.761		
6,100.00	5,940.03	6,082.45	5,879.34	30.32	32.60	-42.74	-831.60	1,139.08	255.45	201.72	53.72	4.755		
6,200.00	6,036.47	6,182.35	5,974.73	30.90	33.24	-42.78	-849.45	1,162.76	259.96	205.22	54.74	4.749		
6,300.00	6,132.91	6,282.25	6,070.13	31.49	33.87	-42.82	-867.29	1,186.44	264.47	208.71	55.76	4.743		
6,400.00	6,229.34	6,382.15	6,165.53	32.07	34.51	-42.86	-885.14	1,210.11	268.98	212.20	56.78	4.738		
6,500.00	6,325.78	6,482.04	6,260.92	32.66	35.15	-42.90	-902.99	1,233.79	273.49	215.70	57.80	4.732		
6,552.14	6,376.06	6,536.48	6,312.95	32.96	35.49	-42.94	-912.62	1,246.57	275.73	217.37	58.36	4.725		
6,600.00	6,422.32	6,588.30	6,362.73	33.24	35.80	-43.04	-921.28	1,258.07	277.43	218.52	58.91	4.710		
6,700.00	6,519.60	6,696.66	6,467.62	33.78	36.42	-43.24	-937.65	1,279.78	280.64	220.67	59.97	4.680		
6,800.00	6,617.63	6,805.12	6,573.55	34.27	36.98	-43.41	-951.63	1,298.33	283.38	222.44	60.93	4.651		
6,900.00	6,716.28	6,913.66	6,680.37	34.72	37.48	-43.54	-963.19	1,313.68	285.64	223.85	61.79	4.623		
7,000.00	6,815.45	7,022.26	6,787.90	35.13	37.93	-43.65	-972.32	1,325.78	287.43	224.89	62.54	4.596		
7,100.00	6,915.00	7,130.92	6,895.99	35.49	38.32	-43.73	-978.99	1,334.63	288.74	225.54	63.19	4.569		
7,200.00	7,014.82	7,239.61	7,004.45	35.81	38.66	-43.77	-983.18	1,340.20	289.56	225.82	63.74	4.543		
7,300.00	7,114.79	7,348.32	7,113.11	36.09	38.95	-43.79	-984.90	1,342.48	289.90	225.71	64.19	4.517		
7,319.21	7,134.00	7,369.20	7,134.00	36.14	39.00	89.39	-984.95	1,342.54	289.91	225.65	64.26	4.512		
7,400.00	7,214.79	7,449.99	7,214.79	36.33	39.17	89.39	-984.95	1,342.54	289.91	225.23	64.67	4.483		
7,419.21	7,234.00	7,469.20	7,234.00	36.37	39.22	89.39	-984.95	1,342.54	289.91	225.14	64.77	4.476		
7,419.21	7,234.00	7,469.21	7,234.00	36.37	39.22	89.39	-984.95	1,342.54	289.91	225.14	64.77	4.476		
7,450.00	7,264.77	7,500.06	7,264.84	36.46	39.29	-90.26	-985.78	1,342.54	289.91	224.96	64.95	4.464		
7,500.00	7,314.52	7,550.18	7,314.71	36.62	39.44	-90.26	-990.66	1,342.57	289.91	224.61	65.30	4.440		
7,550.00	7,363.66	7,600.29	7,363.95	36.81	39.62	-90.26	-999.88	1,342.63	289.91	224.18	65.72	4.411		
7,600.00	7,411.80	7,650.41	7,412.20	37.03	39.82	-90.25	-1,013.36	1,342.71	289.91	223.69	66.22	4.378		
7,650.00	7,458.60	7,700.51	7,459.08	37.29	40.06	-90.24	-1,031.01	1,342.82	289.91	223.13	66.78	4.341		
7,700.00	7,503.68	7,750.62	7,504.24	37.57	40.32	-90.23	-1,052.67	1,342.95	289.91	222.50	67.41	4.301		
7,750.00	7,546.72	7,800.72	7,547.33	37.89	40.61	-90.22	-1,078.20	1,343.10	289.91	221.80	68.10	4.257		
7,800.00	7,587.37	7,850.81	7,588.02	38.23	40.92	-90.21	-1,107.39	1,343.28	289.91	221.04	68.86	4.210		
7,850.00	7,625.34	7,900.90	7,626.00	38.59	41.26	-90.19	-1,140.02	1,343.47	289.91	220.23	69.68	4.160		
7,900.00	7,660.33	7,950.98	7,660.99	38.99	41.62	-90.18	-1,175.83	1,343.69	289.91	219.35	70.56	4.109		
7,950.00	7,692.07	8,001.05	7,692.71	39.40	42.00	-90.16	-1,214.55	1,343.92	289.91	218.42	71.49	4.055		
8,000.00	7,720.33	8,051.12	7,720.92	39.85	42.41	-90.14	-1,255.89	1,344.17	289.91	217.43	72.47	4.000		
8,050.00	7,744.88	8,101.18	7,745.42	40.31	42.84	-90.12	-1,299.52	1,344.43	289.91	216.40	73.51	3.944		
8,100.00	7,765.55	8,151.22	7,766.01	40.79	43.28	-90.10	-1,345.12	1,344.71	289.91	215.33	74.58	3.887		
8,150.00	7,782.18	8,201.26	7,782.55	41.30	43.75	-90.08	-1,392.33	1,344.99	289.91	214.23	75.69	3.830		
8,200.00	7,794.63	8,251.29	7,794.90	41.81	44.23	-90.05	-1,440.79	1,345.28	289.91	213.09	76.82	3.774		
8,250.00	7,802.82	8,301.31	7,802.97	42.34	44.72	-90.03	-1,490.14	1,345.58	289.91	211.94	77.98	3.718		
8,300.00	7,806.68	8,351.32	7,806.72	42.88	45.22	-90.01	-1,539.99	1,345.88	289.91	210.77	79.14	3.663		
8,319.29	7,807.00	8,370.61	7,807.00	43.09	45.42	-90.00	-1,559.28	1,346.00	289.91	210.32	79.60	3.642		
8,400.00	7,807.00	8,451.32	7,807.00	43.98	46.25	-90.00	-1,639.99	1,346.48	289.92	208.40	81.52	3.556		
8,500.00	7,807.00	8,551.32	7,807.00	45.12	47.32	-90.00	-1,739.98	1,347.08	289.92	205.95	83.97	3.453		
8,600.00	7,806.99	8,651.32	7,807.00	46.31	48.44	-90.00	-1,839.98	1,347.68	289.92	203.42	86.50	3.352		
8,700.00	7,806.99	8,751.32	7,807.00	47.53	49.59	-90.00	-1,939.98	1,348.29	289.92	200.82	89.10	3.254		
8,800.00	7,806.99	8,851.32	7,806.99	48.78	50.78	-90.00	-2,039.98	1,348.89	289.92	198.16	91.76	3.160		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	8,951.32	7,806.99	50.07	52.00	-90.00	-2,139.98	1,349.49	289.93	195.45	94.48	3.069		
9,000.00	7,806.98	9,051.32	7,806.99	51.38	53.25	-90.00	-2,239.97	1,350.09	289.93	192.68	97.25	2.981		
9,100.00	7,806.98	9,151.32	7,806.99	52.72	54.53	-90.00	-2,339.97	1,350.69	289.93	189.86	100.07	2.897		
9,200.00	7,806.98	9,251.32	7,806.99	54.09	55.84	-90.00	-2,439.97	1,351.30	289.93	186.99	102.94	2.816		
9,300.00	7,806.98	9,351.32	7,806.99	55.48	57.18	-90.00	-2,539.97	1,351.90	289.94	184.09	105.85	2.739		
9,400.00	7,806.97	9,451.32	7,806.99	56.89	58.53	-90.00	-2,639.97	1,352.50	289.94	181.14	108.79	2.665		
9,500.00	7,806.97	9,551.32	7,806.99	58.32	59.91	-90.00	-2,739.97	1,353.10	289.94	178.16	111.78	2.594		
9,600.00	7,806.97	9,651.32	7,806.98	59.77	61.31	-90.00	-2,839.96	1,353.70	289.94	175.15	114.79	2.526		
9,700.00	7,806.97	9,751.32	7,806.98	61.23	62.73	-90.00	-2,939.96	1,354.30	289.94	172.11	117.83	2.461		
9,800.00	7,806.96	9,851.32	7,806.98	62.71	64.17	-90.00	-3,039.96	1,354.91	289.95	169.04	120.90	2.398		
9,900.00	7,806.96	9,951.32	7,806.98	64.21	65.62	-90.00	-3,139.96	1,355.51	289.95	165.95	124.00	2.338		
10,000.00	7,806.96	10,051.32	7,806.98	65.72	67.09	-90.00	-3,239.96	1,356.11	289.95	162.83	127.11	2.281		
10,100.00	7,806.96	10,151.32	7,806.98	67.24	68.58	-90.00	-3,339.95	1,356.71	289.95	159.70	130.26	2.226		
10,200.00	7,806.95	10,251.32	7,806.98	68.78	70.07	-90.00	-3,439.95	1,357.31	289.95	156.54	133.42	2.173		
10,300.00	7,806.95	10,351.32	7,806.97	70.32	71.58	-90.00	-3,539.95	1,357.91	289.96	153.36	136.60	2.123		
10,400.00	7,806.95	10,451.32	7,806.97	71.88	73.11	-90.00	-3,639.95	1,358.52	289.96	150.16	139.79	2.074		
10,500.00	7,806.95	10,551.32	7,806.97	73.45	74.64	-90.00	-3,739.95	1,359.12	289.96	146.95	143.01	2.028		
10,600.00	7,806.95	10,651.32	7,806.97	75.02	76.18	-90.01	-3,839.95	1,359.72	289.96	143.72	146.24	1.983		
10,700.00	7,806.94	10,751.32	7,806.97	76.61	77.73	-90.01	-3,939.94	1,360.32	289.96	140.48	149.48	1.940		
10,800.00	7,806.94	10,851.32	7,806.97	78.20	79.30	-90.01	-4,039.94	1,360.92	289.97	137.23	152.74	1.898		
10,900.00	7,806.94	10,951.32	7,806.97	79.80	80.87	-90.01	-4,139.94	1,361.53	289.97	133.96	156.01	1.859		
11,000.00	7,806.94	11,051.32	7,806.97	81.41	82.45	-90.01	-4,239.94	1,362.13	289.97	130.68	159.29	1.820		
11,100.00	7,806.93	11,151.32	7,806.96	83.02	84.04	-90.01	-4,339.94	1,362.73	289.97	127.39	162.58	1.784		
11,200.00	7,806.93	11,251.32	7,806.96	84.64	85.63	-90.01	-4,439.94	1,363.33	289.98	124.09	165.89	1.748		
11,300.00	7,806.93	11,351.32	7,806.96	86.27	87.23	-90.01	-4,539.93	1,363.93	289.98	120.78	169.20	1.714		
11,400.00	7,806.93	11,451.32	7,806.96	87.90	88.84	-90.01	-4,639.93	1,364.53	289.98	117.46	172.52	1.681		
11,500.00	7,806.92	11,551.32	7,806.96	89.54	90.46	-90.01	-4,739.93	1,365.14	289.98	114.13	175.85	1.649		
11,600.00	7,806.92	11,651.32	7,806.96	91.18	92.08	-90.01	-4,839.93	1,365.74	289.98	110.79	179.19	1.618		
11,700.00	7,806.92	11,751.32	7,806.96	92.83	93.70	-90.01	-4,939.93	1,366.34	289.99	107.45	182.54	1.589		
11,800.00	7,806.92	11,851.32	7,806.96	94.48	95.33	-90.01	-5,039.92	1,366.94	289.99	104.09	185.89	1.560		
11,900.00	7,806.91	11,951.32	7,806.95	96.14	96.97	-90.01	-5,139.92	1,367.54	289.99	100.73	189.26	1.532		
12,000.00	7,806.91	12,051.32	7,806.95	97.80	98.61	-90.01	-5,239.92	1,368.14	289.99	97.37	192.62	1.505		
12,100.00	7,806.91	12,151.32	7,806.95	99.46	100.26	-90.01	-5,339.92	1,368.75	289.99	94.00	196.00	1.480 Level 3		
12,200.00	7,806.91	12,251.32	7,806.95	101.13	101.90	-90.01	-5,439.92	1,369.35	290.00	90.62	199.38	1.455 Level 3		
12,300.00	7,806.90	12,351.32	7,806.95	102.80	103.56	-90.01	-5,539.92	1,369.95	290.00	87.23	202.76	1.430 Level 3		
12,400.00	7,806.90	12,451.32	7,806.95	104.47	105.22	-90.01	-5,639.91	1,370.55	290.00	83.84	206.16	1.407 Level 3		
12,500.00	7,806.90	12,551.32	7,806.95	106.15	106.88	-90.01	-5,739.91	1,371.15	290.00	80.45	209.55	1.384 Level 3		
12,600.00	7,806.90	12,651.32	7,806.95	107.83	108.54	-90.01	-5,839.91	1,371.76	290.00	77.05	212.95	1.362 Level 3		
12,700.00	7,806.89	12,751.32	7,806.94	109.52	110.21	-90.01	-5,939.91	1,372.36	290.01	73.65	216.36	1.340 Level 3		
12,800.00	7,806.89	12,851.32	7,806.94	111.20	111.88	-90.01	-6,039.91	1,372.96	290.01	70.24	219.77	1.320 Level 3		
12,900.00	7,806.89	12,951.32	7,806.94	112.89	113.56	-90.01	-6,139.90	1,373.56	290.01	66.83	223.19	1.299 Level 3		
13,000.00	7,806.89	13,051.32	7,806.94	114.59	115.24	-90.01	-6,239.90	1,374.16	290.01	63.41	226.60	1.280 Level 3		
13,100.00	7,806.88	13,151.32	7,806.94	116.28	116.92	-90.01	-6,339.90	1,374.76	290.02	59.99	230.03	1.261 Level 3		
13,200.00	7,806.88	13,251.32	7,806.94	117.98	118.60	-90.01	-6,439.90	1,375.37	290.02	56.56	233.45	1.242 Level 2		
13,300.00	7,806.88	13,351.32	7,806.94	119.68	120.29	-90.01	-6,539.90	1,375.97	290.02	53.14	236.88	1.224 Level 2		
13,400.00	7,806.88	13,451.32	7,806.94	121.38	121.97	-90.01	-6,639.90	1,376.57	290.02	49.71	240.32	1.207 Level 2		
13,500.00	7,806.88	13,551.32	7,806.93	123.08	123.66	-90.01	-6,739.89	1,377.17	290.02	46.27	243.75	1.190 Level 2		
13,600.00	7,806.87	13,651.32	7,806.93	124.79	125.36	-90.01	-6,839.89	1,377.77	290.03	42.83	247.19	1.173 Level 2		
13,700.00	7,806.87	13,751.32	7,806.93	126.49	127.05	-90.01	-6,939.89	1,378.37	290.03	39.39	250.64	1.157 Level 2		
13,800.00	7,806.87	13,851.32	7,806.93	128.20	128.75	-90.01	-7,039.89	1,378.98	290.03	35.95	254.08	1.141 Level 2		
13,900.00	7,806.87	13,951.32	7,806.93	129.91	130.45	-90.01	-7,139.89	1,379.58	290.03	32.50	257.53	1.126 Level 2		
14,000.00	7,806.86	14,051.32	7,806.93	131.62	132.15	-90.01	-7,239.88	1,380.18	290.03	29.05	260.98	1.111 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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,151.32	7,806.93	133.34	133.85	-90.01	-7,339.88	1,380.78	290.04	25.60	264.43	1.097	Level 2	
14,200.00	7,806.86	14,251.32	7,806.92	135.05	135.56	-90.01	-7,439.88	1,381.38	290.04	22.15	267.89	1.083	Level 2	
14,300.00	7,806.86	14,351.32	7,806.92	136.77	137.27	-90.01	-7,539.88	1,381.99	290.04	18.69	271.35	1.069	Level 2	
14,400.00	7,806.85	14,451.32	7,806.92	138.49	138.97	-90.01	-7,639.88	1,382.59	290.04	15.24	274.81	1.055	Level 2	
14,500.00	7,806.85	14,551.32	7,806.92	140.21	140.68	-90.01	-7,739.88	1,383.19	290.04	11.78	278.27	1.042	Level 2	
14,600.00	7,806.85	14,651.32	7,806.92	141.93	142.39	-90.01	-7,839.87	1,383.79	290.05	8.31	281.73	1.030	Level 2	
14,700.00	7,806.85	14,751.32	7,806.92	143.65	144.11	-90.01	-7,939.87	1,384.39	290.05	4.85	285.20	1.017	Level 2	
14,800.00	7,806.84	14,851.32	7,806.92	145.37	145.82	-90.01	-8,039.87	1,384.99	290.05	1.38	288.67	1.005	Level 2	
14,900.00	7,806.84	14,951.32	7,806.92	147.10	147.54	-90.01	-8,139.87	1,385.60	290.05	-2.09	292.14	0.993	Level 1	
15,000.00	7,806.84	15,051.32	7,806.91	148.83	149.25	-90.01	-8,239.87	1,386.20	290.06	-5.56	295.61	0.981	Level 1	
15,100.00	7,806.84	15,151.32	7,806.91	150.55	150.97	-90.02	-8,339.86	1,386.80	290.06	-9.03	299.09	0.970	Level 1	
15,200.00	7,806.83	15,251.32	7,806.91	152.28	152.69	-90.02	-8,439.86	1,387.40	290.06	-12.50	302.56	0.959	Level 1	
15,300.00	7,806.83	15,351.32	7,806.91	154.01	154.41	-90.02	-8,539.86	1,388.00	290.06	-15.98	306.04	0.948	Level 1	
15,400.00	7,806.83	15,451.32	7,806.91	155.74	156.14	-90.02	-8,639.86	1,388.61	290.06	-19.45	309.52	0.937	Level 1	
15,500.00	7,806.83	15,551.32	7,806.91	157.47	157.86	-90.02	-8,739.86	1,389.21	290.07	-22.93	313.00	0.927	Level 1	
15,600.00	7,806.82	15,651.32	7,806.91	159.20	159.58	-90.02	-8,839.86	1,389.81	290.07	-26.41	316.48	0.917	Level 1	
15,700.00	7,806.82	15,751.32	7,806.91	160.93	161.31	-90.02	-8,939.85	1,390.41	290.07	-29.89	319.96	0.907	Level 1	
15,800.00	7,806.82	15,851.32	7,806.90	162.67	163.04	-90.02	-9,039.85	1,391.01	290.07	-33.37	323.45	0.897	Level 1	
15,900.00	7,806.82	15,951.32	7,806.90	164.40	164.76	-90.02	-9,139.85	1,391.61	290.07	-36.86	326.93	0.887	Level 1	
16,000.00	7,806.81	16,051.32	7,806.90	166.14	166.49	-90.02	-9,239.85	1,392.22	290.08	-40.34	330.42	0.878	Level 1	
16,100.00	7,806.81	16,151.32	7,806.90	167.87	168.22	-90.02	-9,339.85	1,392.82	290.08	-43.83	333.91	0.869	Level 1	
16,200.00	7,806.81	16,251.32	7,806.90	169.61	169.95	-90.02	-9,439.84	1,393.42	290.08	-47.32	337.40	0.860	Level 1	
16,300.00	7,806.81	16,351.32	7,806.90	171.35	171.68	-90.02	-9,539.84	1,394.02	290.08	-50.81	340.89	0.851	Level 1	
16,400.00	7,806.81	16,451.32	7,806.90	173.09	173.41	-90.02	-9,639.84	1,394.62	290.09	-54.30	344.38	0.842	Level 1	
16,500.00	7,806.80	16,551.32	7,806.90	174.83	175.15	-90.02	-9,739.84	1,395.22	290.09	-57.79	347.87	0.834	Level 1	
16,600.00	7,806.80	16,651.32	7,806.89	176.57	176.88	-90.02	-9,839.84	1,395.83	290.09	-61.28	351.37	0.826	Level 1	
16,700.00	7,806.80	16,751.32	7,806.89	178.31	178.61	-90.02	-9,939.84	1,396.43	290.09	-64.77	354.86	0.817	Level 1	
16,800.00	7,806.80	16,851.32	7,806.89	180.05	180.35	-90.02	-10,039.83	1,397.03	290.09	-68.27	358.36	0.810	Level 1	
16,900.00	7,806.79	16,951.32	7,806.89	181.79	182.08	-90.02	-10,139.83	1,397.63	290.10	-71.76	361.86	0.802	Level 1	
17,000.00	7,806.79	17,051.32	7,806.89	183.53	183.82	-90.02	-10,239.83	1,398.23	290.10	-75.26	365.35	0.794	Level 1	
17,100.00	7,806.79	17,151.32	7,806.89	185.27	185.56	-90.02	-10,339.83	1,398.84	290.10	-78.75	368.85	0.786	Level 1	
17,200.00	7,806.79	17,251.32	7,806.89	187.02	187.30	-90.02	-10,439.83	1,399.44	290.10	-82.25	372.35	0.779	Level 1	
17,300.00	7,806.78	17,351.32	7,806.89	188.76	189.03	-90.02	-10,539.82	1,400.04	290.10	-85.75	375.85	0.772	Level 1	
17,400.00	7,806.78	17,451.32	7,806.88	190.51	190.77	-90.02	-10,639.82	1,400.64	290.11	-89.25	379.35	0.765	Level 1	
17,500.00	7,806.78	17,551.32	7,806.88	192.25	192.51	-90.02	-10,739.82	1,401.24	290.11	-92.75	382.86	0.758	Level 1	
17,600.00	7,806.78	17,651.32	7,806.88	194.00	194.25	-90.02	-10,839.82	1,401.84	290.11	-96.25	386.36	0.751	Level 1	
17,700.00	7,806.77	17,751.32	7,806.88	195.74	195.99	-90.02	-10,939.82	1,402.45	290.11	-99.75	389.86	0.744	Level 1	
17,800.00	7,806.77	17,851.32	7,806.88	197.49	197.74	-90.02	-11,039.82	1,403.05	290.11	-103.25	393.37	0.738	Level 1	
17,900.00	7,806.77	17,951.32	7,806.88	199.24	199.48	-90.02	-11,139.81	1,403.65	290.12	-106.76	396.87	0.731	Level 1	
17,973.82	7,807.00	18,027.96	7,807.00	200.53	200.81	-90.00	-11,216.45	1,403.84	290.01	-109.12	399.13	0.727	Level 1	
17,974.53	7,807.00	18,028.67	7,807.01	200.55	200.83	-90.00	-11,217.16	1,403.84	290.01	-109.15	399.15	0.727	Level 1, ES, SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.50	89.97	89.97					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.50	89.97	89.97	89.71	0.27	334.659		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.50	89.97	89.97	88.99	0.99	91.271		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.50	89.97	89.97	88.27	1.70	52.841		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.50	89.97	89.97	87.55	2.42	37.184		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.50	89.97	89.97	86.84	3.14	28.685		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.50	89.97	89.97	86.12	3.85	23.348		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.50	89.97	89.97	85.40	4.57	19.686	CC, ES	
800.00	800.00	797.14	797.13	2.64	2.62	90.72	-1.14	91.49	91.54	86.28	5.26	17.388		
900.00	900.00	894.07	893.92	3.00	2.95	91.82	-3.06	96.03	96.27	90.32	5.95	16.186		
1,000.00	1,000.00	990.54	990.05	3.36	3.29	93.44	-6.23	103.53	104.20	97.57	6.63	15.722		
1,100.00	1,100.00	1,086.37	1,085.20	3.72	3.64	95.33	-10.62	113.94	115.39	108.08	7.30	15.801		
1,200.00	1,199.98	1,181.57	1,179.31	4.06	4.01	-36.21	-16.21	127.17	128.47	120.51	7.95	16.152		
1,300.00	1,299.84	1,276.33	1,272.45	4.40	4.40	-35.29	-22.97	143.20	141.97	133.39	8.59	16.534		
1,400.00	1,399.45	1,370.62	1,364.52	4.74	4.81	-34.92	-30.89	161.96	155.82	146.61	9.22	16.903		
1,500.00	1,498.70	1,464.46	1,455.42	5.09	5.25	-34.95	-39.94	183.38	169.99	160.13	9.86	17.243		
1,600.00	1,597.47	1,557.82	1,545.06	5.46	5.72	-35.30	-50.08	207.41	184.45	173.94	10.51	17.557		
1,700.00	1,695.62	1,650.71	1,633.36	5.85	6.24	-35.87	-61.30	233.98	199.21	188.05	11.17	17.840		
1,800.00	1,793.06	1,743.12	1,720.23	6.27	6.79	-36.63	-73.55	263.01	214.30	202.45	11.85	18.086		
1,867.07	1,857.94	1,804.83	1,777.65	6.57	7.18	-37.21	-82.34	283.82	224.60	212.28	12.32	18.231		
1,900.00	1,889.69	1,835.03	1,805.57	6.72	7.39	-37.56	-86.82	294.43	229.87	217.31	12.56	18.304		
2,000.00	1,986.13	1,926.15	1,889.06	7.19	8.04	-38.35	-101.01	328.05	247.88	234.59	13.29	18.651		
2,100.00	2,082.57	2,016.97	1,971.07	7.68	8.73	-38.83	-116.17	363.96	268.84	254.80	14.04	19.144		
2,200.00	2,179.00	2,114.46	2,058.58	8.18	9.51	-39.19	-132.89	403.57	291.01	276.07	14.94	19.474		
2,300.00	2,275.44	2,211.96	2,146.09	8.69	10.32	-39.49	-149.61	443.17	313.19	297.33	15.86	19.743		
2,400.00	2,371.88	2,309.46	2,233.60	9.21	11.14	-39.75	-166.34	482.78	335.37	318.58	16.80	19.965		
2,500.00	2,468.31	2,406.95	2,321.10	9.74	11.97	-39.98	-183.06	522.38	357.57	339.82	17.75	20.148		
2,600.00	2,564.75	2,504.45	2,408.61	10.28	12.81	-40.19	-199.78	561.99	379.76	361.06	18.71	20.300		
2,700.00	2,661.19	2,601.95	2,496.12	10.82	13.66	-40.37	-216.50	601.59	401.96	382.29	19.68	20.427		
2,800.00	2,757.62	2,700.55	2,583.63	11.37	14.53	-40.53	-233.22	641.20	424.17	403.50	20.66	20.528		
2,900.00	2,854.06	2,803.06	2,671.13	11.92	15.44	-40.68	-249.94	680.80	446.37	424.70	21.68	20.592		
3,000.00	2,950.50	2,894.44	2,758.64	12.47	16.25	-40.81	-266.66	720.41	468.58	445.95	22.64	20.699		
3,100.00	3,046.93	2,991.94	2,846.15	13.03	17.12	-40.93	-283.38	760.01	490.80	467.16	23.64	20.764		
3,200.00	3,143.37	3,089.43	2,933.65	13.59	18.00	-41.04	-300.10	799.62	513.01	488.37	24.64	20.819		
3,300.00	3,239.81	3,186.93	3,021.16	14.15	18.87	-41.14	-316.82	839.22	535.23	509.57	25.65	20.866		
3,400.00	3,336.24	3,284.43	3,108.67	14.72	19.75	-41.23	-333.54	878.83	557.44	530.78	26.66	20.907		
3,500.00	3,432.68	3,381.93	3,196.18	15.28	20.64	-41.32	-350.26	918.43	579.66	551.98	27.68	20.941		
3,600.00	3,529.12	3,479.42	3,283.68	15.85	21.52	-41.40	-366.98	958.04	601.88	573.18	28.70	20.971		
3,700.00	3,625.55	3,576.92	3,371.19	16.42	22.41	-41.47	-383.70	997.65	624.10	594.38	29.72	20.997		
3,800.00	3,721.99	3,674.42	3,458.70	16.99	23.29	-41.54	-400.42	1,037.25	646.32	615.57	30.75	21.020		
3,900.00	3,818.43	3,771.91	3,546.21	17.56	24.18	-41.61	-417.14	1,076.86	668.54	636.77	31.78	21.039		
4,000.00	3,914.86	3,869.41	3,633.71	18.14	25.07	-41.67	-433.86	1,116.46	690.77	657.96	32.81	21.056		
4,100.00	4,011.30	3,966.91	3,721.22	18.71	25.96	-41.72	-450.58	1,156.07	712.99	679.15	33.84	21.070		
4,200.00	4,107.74	4,064.40	3,808.73	19.29	26.85	-41.77	-467.30	1,195.67	735.21	700.34	34.87	21.083		
4,300.00	4,204.17	4,161.90	3,896.23	19.86	27.75	-41.82	-484.02	1,235.28	757.44	721.53	35.91	21.094		
4,400.00	4,300.61	4,259.40	3,983.74	20.44	28.64	-41.87	-500.74	1,274.88	779.66	742.72	36.95	21.103		
4,500.00	4,397.05	4,356.90	4,071.25	21.02	29.53	-41.92	-517.46	1,314.49	801.89	763.90	37.98	21.111		
4,600.00	4,493.48	4,454.39	4,158.76	21.59	30.43	-41.96	-534.18	1,354.09	824.11	785.09	39.02	21.118		
4,700.00	4,589.92	4,551.89	4,246.26	22.17	31.32	-42.00	-550.90	1,393.70	846.34	806.28	40.07	21.124		
4,800.00	4,686.36	4,649.39	4,333.77	22.75	32.22	-42.04	-567.62	1,433.30	868.57	827.46	41.11	21.129		
4,900.00	4,782.79	4,746.88	4,421.28	23.33	33.11	-42.07	-584.34	1,472.91	890.79	848.64	42.15	21.133		
5,000.00	4,879.23	4,844.38	4,508.79	23.91	34.01	-42.11	-601.06	1,512.51	913.02	869.83	43.20	21.137		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,941.88	4,596.29	24.49	34.91	-42.14	-617.78	1,552.12	935.25	891.01	44.24	21.140		
5,200.00	5,072.10	5,039.37	4,683.80	25.07	35.81	-42.17	-634.50	1,591.72	957.48	912.19	45.29	21.143		
5,300.00	5,168.54	5,136.87	4,771.31	25.66	36.70	-42.20	-651.22	1,631.33	979.71	933.37	46.33	21.145		
5,400.00	5,264.98	5,234.37	4,858.81	26.24	37.60	-42.23	-667.94	1,670.93	1,001.93	954.55	47.38	21.146		
5,500.00	5,361.41	5,331.87	4,946.32	26.82	38.50	-42.25	-684.67	1,710.54	1,024.16	975.73	48.43	21.148		
5,600.00	5,457.85	5,429.36	5,033.83	27.40	39.40	-42.28	-701.39	1,750.14	1,046.39	996.91	49.48	21.149		
5,700.00	5,554.29	5,526.86	5,121.34	27.99	40.30	-42.30	-718.11	1,789.75	1,068.62	1,018.09	50.53	21.149		
5,800.00	5,650.72	5,624.36	5,208.84	28.57	41.20	-42.33	-734.83	1,829.35	1,090.85	1,039.27	51.58	21.150		
5,900.00	5,747.16	5,721.85	5,296.35	29.15	42.10	-42.35	-751.55	1,868.96	1,113.08	1,060.45	52.63	21.150		
6,000.00	5,843.60	5,819.35	5,383.86	29.74	43.00	-42.37	-768.27	1,908.57	1,135.31	1,081.63	53.68	21.150		
6,100.00	5,940.03	5,916.85	5,471.37	30.32	43.90	-42.39	-784.99	1,948.17	1,157.54	1,102.81	54.73	21.149		
6,200.00	6,036.47	6,014.34	5,558.87	30.90	44.80	-42.41	-801.71	1,987.78	1,179.77	1,123.99	55.78	21.149		
6,300.00	6,132.91	6,111.84	5,646.38	31.49	45.70	-42.43	-818.43	2,027.38	1,202.00	1,145.16	56.84	21.148		
6,400.00	6,229.34	6,209.34	5,733.89	32.07	46.60	-42.45	-835.15	2,066.99	1,224.23	1,166.34	57.89	21.148		
6,500.00	6,325.78	6,306.84	5,821.40	32.66	47.50	-42.47	-851.87	2,106.59	1,246.46	1,187.52	58.94	21.147		
6,552.14	6,376.06	6,357.67	5,867.02	32.96	47.97	-42.48	-860.59	2,127.24	1,258.05	1,198.56	59.49	21.146		
6,600.00	6,422.32	6,433.27	5,935.26	33.24	48.64	-42.63	-873.24	2,157.21	1,268.49	1,208.18	60.31	21.033		
6,700.00	6,519.60	6,599.26	6,087.94	33.78	50.02	-42.92	-898.54	2,217.14	1,288.35	1,226.40	61.96	20.795		
6,800.00	6,617.63	6,767.81	6,246.58	34.27	51.21	-43.16	-920.67	2,269.56	1,305.46	1,242.07	63.39	20.593		
6,900.00	6,716.28	6,938.60	6,410.45	34.72	52.25	-43.36	-939.35	2,313.81	1,319.71	1,255.10	64.61	20.425		
7,000.00	6,815.45	7,111.26	6,578.72	35.13	53.13	-43.51	-954.34	2,349.33	1,331.03	1,265.42	65.60	20.289		
7,100.00	6,915.00	7,285.40	6,750.48	35.49	53.83	-43.62	-965.44	2,375.62	1,339.33	1,272.97	66.36	20.184		
7,200.00	7,014.82	7,460.56	6,924.67	35.81	54.37	-43.69	-972.50	2,392.32	1,344.58	1,277.71	66.87	20.108		
7,300.00	7,114.79	7,636.29	7,100.21	36.09	54.76	-43.72	-975.40	2,399.19	1,346.73	1,279.59	67.14	20.059		
7,319.21	7,134.00	7,670.07	7,134.00	36.14	54.82	-43.77	-975.47	2,399.38	1,346.78	1,279.63	67.16	20.054		
7,400.00	7,214.79	7,750.86	7,214.79	36.33	54.95	-43.77	-975.47	2,399.38	1,346.78	1,279.24	67.55	19.938		
7,419.21	7,234.00	7,770.07	7,234.00	36.37	54.99	-43.77	-975.47	2,399.38	1,346.78	1,279.14	67.64	19.910		
7,450.00	7,264.77	7,801.10	7,265.01	36.46	55.04	-43.77	-976.31	2,399.38	1,346.78	1,278.98	67.81	19.861		
7,500.00	7,314.52	7,851.49	7,315.14	36.62	55.14	-43.77	-981.25	2,399.41	1,346.78	1,278.64	68.14	19.765		
7,550.00	7,363.66	7,901.88	7,364.64	36.81	55.27	-43.77	-990.57	2,399.47	1,346.78	1,278.24	68.54	19.649		
7,600.00	7,411.80	7,952.25	7,413.12	37.03	55.41	-43.77	-1,004.19	2,399.55	1,346.78	1,277.78	69.01	19.517		
7,650.00	7,458.60	8,002.62	7,460.21	37.29	55.57	-43.77	-1,022.02	2,399.66	1,346.78	1,277.25	69.54	19.367		
7,700.00	7,503.88	8,052.97	7,505.54	37.57	55.76	-43.77	-1,043.90	2,399.79	1,346.78	1,276.65	70.14	19.202		
7,750.00	7,546.72	8,103.30	7,548.76	37.89	55.96	-43.77	-1,069.67	2,399.94	1,346.78	1,275.99	70.80	19.023		
7,800.00	7,587.37	8,153.62	7,589.54	38.23	56.17	-43.77	-1,099.12	2,400.12	1,346.78	1,275.27	71.52	18.832		
7,850.00	7,625.34	8,203.92	7,627.56	38.59	56.41	-43.77	-1,132.01	2,400.32	1,346.78	1,274.48	72.30	18.628		
7,873.56	7,642.21	8,227.60	7,644.44	38.78	56.53	-43.77	-1,148.63	2,400.42	1,346.78	1,274.09	72.69	18.527		
7,900.00	7,660.33	8,254.19	7,662.54	38.99	56.66	-43.77	-1,168.10	2,400.54	1,346.78	1,273.64	73.14	18.414		
7,950.00	7,692.07	8,304.43	7,694.20	39.40	56.93	-43.77	-1,207.09	2,400.77	1,346.78	1,272.75	74.03	18.191		
8,000.00	7,720.33	8,354.65	7,722.32	39.85	57.22	-43.77	-1,248.68	2,401.02	1,346.78	1,271.81	74.98	17.962		
8,050.00	7,744.88	8,404.84	7,746.67	40.31	57.52	-43.77	-1,292.55	2,401.28	1,346.78	1,270.81	75.97	17.728		
8,100.00	7,765.55	8,455.00	7,767.08	40.79	57.83	-43.77	-1,338.35	2,401.56	1,346.79	1,269.78	77.00	17.490		
8,150.00	7,782.18	8,505.12	7,783.40	41.30	58.16	-43.77	-1,385.72	2,401.84	1,346.79	1,268.71	78.07	17.250		
8,200.00	7,794.63	8,555.22	7,795.51	41.81	58.49	-43.77	-1,434.31	2,402.14	1,346.79	1,267.62	79.17	17.011		
8,250.00	7,802.82	8,605.28	7,803.33	42.34	58.84	-43.77	-1,483.74	2,402.43	1,346.79	1,266.50	80.29	16.774		
8,300.00	7,806.68	8,655.31	7,806.81	42.88	59.20	-43.77	-1,533.63	2,402.73	1,346.79	1,265.37	81.42	16.541		
8,319.29	7,807.00	8,674.60	7,807.00	43.09	59.34	-43.77	-1,552.92	2,402.85	1,346.79	1,264.93	81.86	16.453		
8,400.00	7,807.00	8,755.31	7,807.00	43.98	59.94	-43.77	-1,633.63	2,403.34	1,346.79	1,263.06	83.72	16.086		
8,500.00	7,807.00	8,855.31	7,807.00	45.12	60.72	-43.77	-1,733.63	2,403.94	1,346.79	1,260.68	86.11	15.641		
8,600.00	7,806.99	8,955.31	7,807.00	46.31	61.53	-43.77	-1,833.63	2,404.54	1,346.79	1,258.22	88.57	15.206		
8,700.00	7,806.99	9,055.31	7,807.00	47.53	62.38	-43.77	-1,933.62	2,405.14	1,346.79	1,255.69	91.10	14.783		
8,800.00	7,806.99	9,155.31	7,806.99	48.78	63.27	-43.77	-2,033.62	2,405.74	1,346.80	1,253.10	93.70	14.374		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,255.31	7,806.99	50.07	64.19	-90.00	-2,133.62	2,406.34	1,346.80	1,250.44	96.36	13.977		
9,000.00	7,806.98	9,355.31	7,806.99	51.38	65.15	-90.00	-2,233.62	2,406.94	1,346.80	1,247.73	99.07	13.594		
9,100.00	7,806.98	9,455.31	7,806.99	52.72	66.14	-90.00	-2,333.62	2,407.55	1,346.80	1,244.96	101.84	13.225		
9,200.00	7,806.98	9,555.31	7,806.99	54.09	67.17	-90.00	-2,433.62	2,408.15	1,346.80	1,242.15	104.65	12.870		
9,300.00	7,806.98	9,655.31	7,806.99	55.48	68.22	-90.00	-2,533.61	2,408.75	1,346.81	1,239.30	107.50	12.528		
9,400.00	7,806.97	9,755.31	7,806.99	56.89	69.30	-90.00	-2,633.61	2,409.35	1,346.81	1,236.41	110.40	12.199		
9,500.00	7,806.97	9,855.31	7,806.99	58.32	70.41	-90.00	-2,733.61	2,409.95	1,346.81	1,233.48	113.33	11.884		
9,600.00	7,806.97	9,955.31	7,806.98	59.77	71.55	-90.00	-2,833.61	2,410.55	1,346.81	1,230.51	116.30	11.581		
9,700.00	7,806.97	10,055.31	7,806.98	61.23	72.72	-90.00	-2,933.61	2,411.15	1,346.81	1,227.52	119.30	11.290		
9,800.00	7,806.96	10,155.31	7,806.98	62.71	73.91	-90.00	-3,033.60	2,411.76	1,346.81	1,224.49	122.32	11.010		
9,900.00	7,806.96	10,255.31	7,806.98	64.21	75.12	-90.00	-3,133.60	2,412.36	1,346.82	1,221.44	125.38	10.742		
10,000.00	7,806.96	10,355.31	7,806.98	65.72	76.36	-90.00	-3,233.60	2,412.96	1,346.82	1,218.36	128.46	10.484		
10,100.00	7,806.96	10,455.31	7,806.98	67.24	77.62	-90.00	-3,333.60	2,413.56	1,346.82	1,215.26	131.56	10.237		
10,200.00	7,806.95	10,555.31	7,806.98	68.78	78.90	-90.00	-3,433.60	2,414.16	1,346.82	1,212.13	134.69	10.000		
10,300.00	7,806.95	10,655.31	7,806.98	70.32	80.20	-90.00	-3,533.60	2,414.76	1,346.82	1,208.99	137.83	9.771		
10,400.00	7,806.95	10,755.31	7,806.97	71.88	81.52	-90.00	-3,633.59	2,415.36	1,346.83	1,205.83	141.00	9.552		
10,500.00	7,806.95	10,855.31	7,806.97	73.45	82.86	-90.00	-3,733.59	2,415.97	1,346.83	1,202.65	144.18	9.341		
10,600.00	7,806.95	10,955.31	7,806.97	75.02	84.22	-90.00	-3,833.59	2,416.57	1,346.83	1,199.45	147.38	9.139		
10,700.00	7,806.94	11,055.31	7,806.97	76.61	85.59	-90.00	-3,933.59	2,417.17	1,346.83	1,196.24	150.59	8.944		
10,800.00	7,806.94	11,155.31	7,806.97	78.20	86.98	-90.00	-4,033.59	2,417.77	1,346.83	1,193.01	153.82	8.756		
10,900.00	7,806.94	11,255.31	7,806.97	79.80	88.38	-90.00	-4,133.58	2,418.37	1,346.83	1,189.77	157.06	8.575		
11,000.00	7,806.94	11,355.31	7,806.97	81.41	89.79	-90.00	-4,233.58	2,418.97	1,346.84	1,186.52	160.32	8.401		
11,100.00	7,806.93	11,455.31	7,806.97	83.02	91.22	-90.00	-4,333.58	2,419.57	1,346.84	1,183.25	163.59	8.233		
11,200.00	7,806.93	11,555.31	7,806.96	84.64	92.67	-90.00	-4,433.58	2,420.18	1,346.84	1,179.97	166.87	8.071		
11,300.00	7,806.93	11,655.31	7,806.96	86.27	94.12	-90.00	-4,533.58	2,420.78	1,346.84	1,176.69	170.16	7.915		
11,400.00	7,806.93	11,755.31	7,806.96	87.90	95.59	-90.00	-4,633.58	2,421.38	1,346.84	1,173.39	173.45	7.765		
11,500.00	7,806.92	11,855.31	7,806.96	89.54	97.06	-90.00	-4,733.57	2,421.98	1,346.85	1,170.08	176.76	7.619		
11,600.00	7,806.92	11,955.31	7,806.96	91.18	98.55	-90.00	-4,833.57	2,422.58	1,346.85	1,166.76	180.08	7.479		
11,700.00	7,806.92	12,055.31	7,806.96	92.83	100.05	-90.00	-4,933.57	2,423.18	1,346.85	1,163.44	183.41	7.343		
11,800.00	7,806.92	12,155.31	7,806.96	94.48	101.56	-90.00	-5,033.57	2,423.78	1,346.85	1,160.11	186.74	7.212		
11,900.00	7,806.91	12,255.31	7,806.96	96.14	103.07	-90.00	-5,133.57	2,424.39	1,346.85	1,156.77	190.09	7.085		
12,000.00	7,806.91	12,355.31	7,806.95	97.80	104.60	-90.00	-5,233.56	2,424.99	1,346.85	1,153.42	193.44	6.963		
12,100.00	7,806.91	12,455.31	7,806.95	99.46	106.13	-90.00	-5,333.56	2,425.59	1,346.86	1,150.06	196.79	6.844		
12,200.00	7,806.91	12,555.31	7,806.95	101.13	107.67	-90.00	-5,433.56	2,426.19	1,346.86	1,146.70	200.16	6.729		
12,300.00	7,806.90	12,655.31	7,806.95	102.80	109.22	-90.00	-5,533.56	2,426.79	1,346.86	1,143.33	203.53	6.618		
12,400.00	7,806.90	12,755.31	7,806.95	104.47	110.78	-90.00	-5,633.56	2,427.39	1,346.86	1,139.96	206.90	6.510		
12,500.00	7,806.90	12,855.31	7,806.95	106.15	112.34	-90.00	-5,733.56	2,428.00	1,346.86	1,136.58	210.28	6.405		
12,600.00	7,806.90	12,955.31	7,806.95	107.83	113.91	-90.00	-5,833.55	2,428.60	1,346.87	1,133.20	213.67	6.304		
12,700.00	7,806.89	13,055.31	7,806.95	109.52	115.48	-90.00	-5,933.55	2,429.20	1,346.87	1,129.81	217.06	6.205		
12,800.00	7,806.89	13,155.31	7,806.94	111.20	117.07	-90.00	-6,033.55	2,429.80	1,346.87	1,126.41	220.46	6.109		
12,900.00	7,806.89	13,255.31	7,806.94	112.89	118.65	-90.00	-6,133.55	2,430.40	1,346.87	1,123.01	223.86	6.017		
13,000.00	7,806.89	13,355.31	7,806.94	114.59	120.25	-90.00	-6,233.55	2,431.00	1,346.87	1,119.61	227.26	5.927		
13,100.00	7,806.88	13,455.31	7,806.94	116.28	121.84	-90.00	-6,333.54	2,431.60	1,346.87	1,116.20	230.67	5.839		
13,200.00	7,806.88	13,555.31	7,806.94	117.98	123.45	-90.00	-6,433.54	2,432.21	1,346.88	1,112.79	234.08	5.754		
13,300.00	7,806.88	13,655.31	7,806.94	119.68	125.06	-90.00	-6,533.54	2,432.81	1,346.88	1,109.38	237.50	5.671		
13,400.00	7,806.88	13,755.31	7,806.94	121.38	126.67	-90.00	-6,633.54	2,433.41	1,346.88	1,105.96	240.92	5.590		
13,500.00	7,806.88	13,855.31	7,806.94	123.08	128.29	-90.00	-6,733.54	2,434.01	1,346.88	1,102.53	244.35	5.512		
13,600.00	7,806.87	13,955.31	7,806.93	124.79	129.91	-90.00	-6,833.54	2,434.61	1,346.88	1,099.11	247.78	5.436		
13,700.00	7,806.87	14,055.31	7,806.93	126.49	131.53	-90.00	-6,933.53	2,435.21	1,346.88	1,095.68	251.21	5.362		
13,800.00	7,806.87	14,155.31	7,806.93	128.20	133.16	-90.00	-7,033.53	2,435.81	1,346.89	1,092.24	254.64	5.289		
13,900.00	7,806.87	14,255.31	7,806.93	129.91	134.80	-90.00	-7,133.53	2,436.42	1,346.89	1,088.81	258.08	5.219		
14,000.00	7,806.86	14,355.31	7,806.93	131.62	136.43	-90.00	-7,233.53	2,437.02	1,346.89	1,085.37	261.52	5.150		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,455.31	7,806.93	133.34	138.08	-90.00	-7,333.53	2,437.62	1,346.89	1,081.93	264.96	5.083		
14,200.00	7,806.86	14,555.31	7,806.93	135.05	139.72	-90.00	-7,433.53	2,438.22	1,346.89	1,078.48	268.41	5.018		
14,300.00	7,806.86	14,655.31	7,806.92	136.77	141.37	-90.00	-7,533.52	2,438.82	1,346.90	1,075.04	271.86	4.954		
14,400.00	7,806.85	14,755.31	7,806.92	138.49	143.02	-90.00	-7,633.52	2,439.42	1,346.90	1,071.59	275.31	4.892		
14,500.00	7,806.85	14,855.31	7,806.92	140.21	144.67	-90.00	-7,733.52	2,440.02	1,346.90	1,068.14	278.76	4.832		
14,600.00	7,806.85	14,955.31	7,806.92	141.93	146.33	-90.00	-7,833.52	2,440.63	1,346.90	1,064.68	282.22	4.773		
14,700.00	7,806.85	15,055.31	7,806.92	143.65	147.99	-90.00	-7,933.52	2,441.23	1,346.90	1,061.23	285.68	4.715		
14,800.00	7,806.84	15,155.31	7,806.92	145.37	149.65	-90.00	-8,033.51	2,441.83	1,346.90	1,057.77	289.14	4.658		
14,900.00	7,806.84	15,255.31	7,806.92	147.10	151.32	-90.00	-8,133.51	2,442.43	1,346.91	1,054.31	292.60	4.603		
15,000.00	7,806.84	15,355.31	7,806.92	148.83	152.98	-90.00	-8,233.51	2,443.03	1,346.91	1,050.85	296.06	4.549		
15,100.00	7,806.84	15,455.31	7,806.91	150.55	154.65	-90.00	-8,333.51	2,443.63	1,346.91	1,047.38	299.53	4.497		
15,200.00	7,806.83	15,555.31	7,806.91	152.28	156.32	-90.00	-8,433.51	2,444.23	1,346.91	1,043.91	303.00	4.445		
15,300.00	7,806.83	15,655.31	7,806.91	154.01	158.00	-90.00	-8,533.51	2,444.84	1,346.91	1,040.45	306.47	4.395		
15,400.00	7,806.83	15,755.31	7,806.91	155.74	159.68	-90.00	-8,633.50	2,445.44	1,346.92	1,036.98	309.94	4.346		
15,500.00	7,806.83	15,855.31	7,806.91	157.47	161.36	-90.00	-8,733.50	2,446.04	1,346.92	1,033.51	313.41	4.298		
15,600.00	7,806.82	15,955.31	7,806.91	159.20	163.04	-90.00	-8,833.50	2,446.64	1,346.92	1,030.03	316.89	4.250		
15,700.00	7,806.82	16,055.31	7,806.91	160.93	164.72	-90.00	-8,933.50	2,447.24	1,346.92	1,026.56	320.36	4.204		
15,800.00	7,806.82	16,155.31	7,806.91	162.67	166.40	-90.00	-9,033.50	2,447.84	1,346.92	1,023.08	323.84	4.159		
15,900.00	7,806.82	16,255.31	7,806.90	164.40	168.09	-90.00	-9,133.49	2,448.44	1,346.92	1,019.60	327.32	4.115		
16,000.00	7,806.81	16,355.31	7,806.90	166.14	169.78	-90.00	-9,233.49	2,449.05	1,346.93	1,016.13	330.80	4.072		
16,100.00	7,806.81	16,455.31	7,806.90	167.87	171.47	-90.00	-9,333.49	2,449.65	1,346.93	1,012.65	334.28	4.029		
16,200.00	7,806.81	16,555.31	7,806.90	169.61	173.16	-90.00	-9,433.49	2,450.25	1,346.93	1,009.16	337.77	3.988		
16,300.00	7,806.81	16,655.31	7,806.90	171.35	174.86	-90.00	-9,533.49	2,450.85	1,346.93	1,005.68	341.25	3.947		
16,400.00	7,806.81	16,755.31	7,806.90	173.09	176.55	-90.00	-9,633.49	2,451.45	1,346.93	1,002.20	344.74	3.907		
16,500.00	7,806.80	16,855.31	7,806.90	174.83	178.25	-90.00	-9,733.48	2,452.05	1,346.94	998.71	348.22	3.868		
16,600.00	7,806.80	16,955.31	7,806.90	176.57	179.95	-90.00	-9,833.48	2,452.66	1,346.94	995.22	351.71	3.830		
16,700.00	7,806.80	17,055.31	7,806.89	178.31	181.65	-90.00	-9,933.48	2,453.26	1,346.94	991.74	355.20	3.792		
16,800.00	7,806.80	17,155.31	7,806.89	180.05	183.35	-90.00	-10,033.48	2,453.86	1,346.94	988.25	358.69	3.755		
16,900.00	7,806.79	17,255.31	7,806.89	181.79	185.05	-90.00	-10,133.48	2,454.46	1,346.94	984.76	362.18	3.719		
17,000.00	7,806.79	17,355.31	7,806.89	183.53	186.76	-90.00	-10,233.47	2,455.06	1,346.94	981.27	365.68	3.683		
17,100.00	7,806.79	17,455.31	7,806.89	185.27	188.46	-90.00	-10,333.47	2,455.66	1,346.95	977.78	369.17	3.649		
17,200.00	7,806.79	17,555.31	7,806.89	187.02	190.17	-90.00	-10,433.47	2,456.26	1,346.95	974.28	372.67	3.614		
17,300.00	7,806.78	17,655.31	7,806.89	188.76	191.88	-90.00	-10,533.47	2,456.87	1,346.95	970.79	376.16	3.581		
17,400.00	7,806.78	17,755.31	7,806.89	190.51	193.59	-90.00	-10,633.47	2,457.47	1,346.95	967.29	379.66	3.548		
17,500.00	7,806.78	17,855.31	7,806.88	192.25	195.30	-90.00	-10,733.47	2,458.07	1,346.95	963.80	383.16	3.515		
17,600.00	7,806.78	17,955.31	7,806.88	194.00	197.01	-90.00	-10,833.46	2,458.67	1,346.96	960.30	386.65	3.484		
17,700.00	7,806.77	18,055.31	7,806.88	195.74	198.72	-90.00	-10,933.46	2,459.27	1,346.96	956.80	390.15	3.452		
17,800.00	7,806.77	18,155.31	7,806.88	197.49	200.44	-90.00	-11,033.46	2,459.87	1,346.96	953.31	393.65	3.422		
17,900.00	7,806.77	18,255.31	7,806.88	199.24	202.15	-90.00	-11,133.46	2,460.47	1,346.96	949.81	397.15	3.392		
17,973.82	7,807.00	18,321.78	7,806.95	200.53	203.29	-90.00	-11,199.93	2,460.99	1,347.25	947.36	399.90	3.369		
17,974.53	7,807.00	18,322.49	7,806.95	200.55	203.30	-90.00	-11,200.64	2,461.00	1,347.26	947.34	399.92	3.369 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.60	107.97	107.97					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.60	107.97	107.97	107.70	0.27	401.593		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.60	107.97	107.97	106.98	0.99	109.525		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.60	107.97	107.97	106.27	1.70	63.409		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.60	107.97	107.97	105.55	2.42	44.621		
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	CC, ES	
700.00	700.00	696.54	696.52	2.29	2.26	90.61	-1.16	109.50	109.56	105.01	4.55	24.096		
800.00	800.00	792.86	792.71	2.64	2.59	91.42	-2.83	114.06	114.33	109.10	5.23	21.859		
900.00	900.00	888.74	888.25	3.00	2.93	92.63	-5.58	121.63	122.32	116.41	5.91	20.689		
1,000.00	1,000.00	983.98	982.83	3.36	3.28	94.07	-9.41	132.11	133.55	126.96	6.59	20.267		
1,100.00	1,100.00	1,078.37	1,076.15	3.72	3.65	95.60	-14.26	145.40	148.03	140.77	7.26	20.390		
1,200.00	1,199.98	1,172.01	1,168.22	4.06	4.04	-36.23	-20.11	161.44	164.38	156.47	7.91	20.791		
1,300.00	1,299.84	1,265.11	1,259.15	4.40	4.45	-35.50	-26.95	180.17	181.11	172.58	8.53	21.223		
1,400.00	1,399.45	1,357.66	1,348.86	4.74	4.89	-35.22	-34.75	201.54	198.18	189.02	9.16	21.635		
1,500.00	1,498.70	1,449.66	1,437.25	5.09	5.36	-35.29	-43.48	225.47	215.53	205.74	9.79	22.005		
1,600.00	1,597.47	1,541.09	1,524.25	5.46	5.87	-35.62	-53.11	251.88	233.17	222.73	10.44	22.341		
1,700.00	1,695.62	1,631.95	1,609.77	5.85	6.42	-36.16	-63.63	280.69	251.09	240.00	11.09	22.636		
1,800.00	1,793.06	1,722.23	1,693.75	6.27	7.01	-36.84	-74.99	311.83	269.32	257.55	11.77	22.883		
1,867.07	1,857.94	1,782.47	1,749.18	6.57	7.44	-37.37	-83.07	333.98	281.73	269.49	12.24	23.021		
1,900.00	1,889.69	1,811.93	1,776.10	6.72	7.65	-37.70	-87.17	345.22	288.02	275.55	12.47	23.093		
2,000.00	1,986.13	1,900.71	1,856.47	7.19	8.33	-38.51	-100.09	380.63	309.12	295.93	13.20	23.421		
2,100.00	2,082.57	1,988.34	1,934.63	7.68	9.06	-39.08	-113.68	417.86	333.15	319.21	13.93	23.907		
2,200.00	2,179.00	2,084.24	2,019.39	8.18	9.90	-39.53	-129.06	460.01	358.81	343.97	14.83	24.192		
2,300.00	2,275.44	2,180.86	2,104.78	8.69	10.77	-39.93	-144.55	502.47	384.49	368.73	15.76	24.396		
2,400.00	2,371.88	2,277.47	2,190.17	9.21	11.64	-40.27	-160.04	544.93	410.19	393.49	16.71	24.554		
2,500.00	2,468.31	2,374.08	2,275.55	9.74	12.54	-40.58	-175.54	587.39	435.90	418.24	17.66	24.676		
2,600.00	2,564.75	2,470.70	2,360.94	10.28	13.44	-40.85	-191.03	629.86	461.63	442.99	18.64	24.770		
2,700.00	2,661.19	2,567.31	2,446.33	10.82	14.34	-41.09	-206.53	672.32	487.36	467.74	19.62	24.842		
2,800.00	2,757.62	2,663.92	2,531.72	11.37	15.26	-41.31	-222.02	714.78	513.10	492.49	20.61	24.896		
2,900.00	2,854.06	2,760.54	2,617.10	11.92	16.18	-41.51	-237.52	757.25	538.84	517.23	21.61	24.936		
3,000.00	2,950.50	2,857.15	2,702.49	12.47	17.10	-41.69	-253.01	799.71	564.59	541.98	22.62	24.965		
3,100.00	3,046.93	2,953.76	2,787.88	13.03	18.03	-41.85	-268.50	842.17	590.35	566.72	23.63	24.985		
3,200.00	3,143.37	3,050.38	2,873.26	13.59	18.96	-42.00	-284.00	884.64	616.11	591.46	24.65	24.999		
3,300.00	3,239.81	3,146.99	2,958.65	14.15	19.89	-42.14	-299.49	927.10	641.87	616.20	25.67	25.006		
3,400.00	3,336.24	3,243.60	3,044.04	14.72	20.82	-42.27	-314.99	969.56	667.63	640.94	26.70	25.009		
3,500.00	3,432.68	3,340.22	3,129.43	15.28	21.76	-42.38	-330.48	1,012.03	693.40	665.68	27.73	25.009		
3,600.00	3,529.12	3,436.83	3,214.81	15.85	22.70	-42.49	-345.97	1,054.49	719.18	690.41	28.76	25.006		
3,700.00	3,625.55	3,533.44	3,300.20	16.42	23.64	-42.60	-361.47	1,096.95	744.95	715.15	29.80	25.000		
3,800.00	3,721.99	3,630.06	3,385.59	16.99	24.58	-42.69	-376.96	1,139.41	770.72	739.89	30.84	24.992		
3,900.00	3,818.43	3,726.67	3,470.97	17.56	25.52	-42.78	-392.46	1,181.88	796.50	764.62	31.88	24.983		
4,000.00	3,914.86	3,823.28	3,556.36	18.14	26.47	-42.86	-407.95	1,224.34	822.28	789.36	32.93	24.973		
4,100.00	4,011.30	3,919.90	3,641.75	18.71	27.41	-42.94	-423.45	1,266.80	848.06	814.09	33.97	24.962		
4,200.00	4,107.74	4,016.51	3,727.13	19.29	28.36	-43.02	-438.94	1,309.27	873.85	838.82	35.02	24.950		
4,300.00	4,204.17	4,113.12	3,812.52	19.86	29.30	-43.08	-454.43	1,351.73	899.63	863.55	36.07	24.938		
4,400.00	4,300.61	4,209.74	3,897.91	20.44	30.25	-43.15	-469.93	1,394.19	925.41	888.29	37.13	24.925		
4,500.00	4,397.05	4,306.35	3,983.30	21.02	31.20	-43.21	-485.42	1,436.66	951.20	913.02	38.18	24.912		
4,600.00	4,493.48	4,402.96	4,068.68	21.59	32.15	-43.27	-500.92	1,479.12	976.99	937.75	39.24	24.899		
4,700.00	4,589.92	4,500.42	4,154.07	22.17	33.11	-43.33	-516.41	1,521.58	1,002.77	962.47	40.30	24.883		
4,800.00	4,686.36	4,603.81	4,239.46	22.75	34.12	-43.38	-531.91	1,564.05	1,028.56	987.17	41.40	24.846		
4,900.00	4,782.79	4,707.20	4,324.84	23.33	35.14	-43.43	-547.40	1,606.51	1,054.35	1,011.86	42.50	24.810		
5,000.00	4,879.23	4,789.42	4,410.23	23.91	35.95	-43.48	-562.89	1,648.97	1,080.14	1,036.67	43.47	24.846		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,886.03	4,495.62	24.49	36.90	-43.52	-578.39	1,691.43	1,105.93	1,061.40	44.53	24.833		
5,200.00	5,072.10	4,982.64	4,581.00	25.07	37.85	-43.57	-593.88	1,733.90	1,131.72	1,086.13	45.60	24.820		
5,300.00	5,168.54	5,079.26	4,666.39	25.66	38.80	-43.61	-609.38	1,776.36	1,157.52	1,110.86	46.66	24.807		
5,400.00	5,264.98	5,175.87	4,751.78	26.24	39.75	-43.65	-624.87	1,818.82	1,183.31	1,135.58	47.72	24.795		
5,500.00	5,361.41	5,272.48	4,837.17	26.82	40.71	-43.69	-640.37	1,861.29	1,209.10	1,160.31	48.79	24.782		
5,600.00	5,457.85	5,369.10	4,922.55	27.40	41.66	-43.72	-655.86	1,903.75	1,234.90	1,185.04	49.85	24.770		
5,700.00	5,554.29	5,465.71	5,007.94	27.99	42.61	-43.76	-671.35	1,946.21	1,260.69	1,209.77	50.92	24.758		
5,800.00	5,650.72	5,562.32	5,093.33	28.57	43.56	-43.79	-686.85	1,988.68	1,286.48	1,234.50	51.99	24.746		
5,900.00	5,747.16	5,658.94	5,178.71	29.15	44.52	-43.82	-702.34	2,031.14	1,312.28	1,259.22	53.06	24.734		
6,000.00	5,843.60	5,755.55	5,264.10	29.74	45.47	-43.86	-717.84	2,073.60	1,338.07	1,283.95	54.12	24.723		
6,100.00	5,940.03	5,852.16	5,349.49	30.32	46.42	-43.89	-733.33	2,116.07	1,363.87	1,308.68	55.19	24.711		
6,200.00	6,036.47	5,948.78	5,434.87	30.90	47.38	-43.91	-748.83	2,158.53	1,389.66	1,333.40	56.26	24.700		
6,300.00	6,132.91	6,045.39	5,520.26	31.49	48.33	-43.94	-764.32	2,200.99	1,415.46	1,358.13	57.33	24.689		
6,400.00	6,229.34	6,142.00	5,605.65	32.07	49.29	-43.97	-779.81	2,243.45	1,441.26	1,382.86	58.40	24.679		
6,500.00	6,325.78	6,238.62	5,691.04	32.66	50.24	-44.00	-795.31	2,285.92	1,467.05	1,407.58	59.47	24.668		
6,552.14	6,376.06	6,288.99	5,735.56	32.96	50.74	-44.01	-803.39	2,308.06	1,480.51	1,420.48	60.03	24.663		
6,600.00	6,422.32	6,335.15	5,776.36	33.24	51.19	-44.19	-810.79	2,328.35	1,493.13	1,432.59	60.53	24.666		
6,700.00	6,519.60	6,431.09	5,861.14	33.78	52.14	-44.53	-826.18	2,370.51	1,521.28	1,459.76	61.53	24.726		
6,800.00	6,617.63	6,526.22	5,945.22	34.27	53.08	-44.82	-841.43	2,412.32	1,551.82	1,489.39	62.44	24.855		
6,900.00	6,716.28	6,620.42	6,028.48	34.72	54.01	-45.07	-856.54	2,453.73	1,584.73	1,521.47	63.26	25.050		
7,000.00	6,815.45	6,783.91	6,174.39	35.13	55.56	-45.04	-881.80	2,522.97	1,618.61	1,553.86	64.75	24.996		
7,100.00	6,915.00	6,986.16	6,360.25	35.49	57.24	-44.87	-909.11	2,597.79	1,649.08	1,582.72	66.37	24.848		
7,200.00	7,014.82	7,195.57	6,558.11	35.81	58.69	-44.65	-932.56	2,662.08	1,675.58	1,607.89	67.69	24.753		
7,300.00	7,114.79	7,411.54	6,766.85	36.09	59.88	-44.39	-951.50	2,713.98	1,697.81	1,629.13	68.68	24.720		
7,319.21	7,134.00	7,453.73	6,808.07	36.14	60.08	-88.85	-954.57	2,722.38	1,701.58	1,632.75	68.83	24.723		
7,400.00	7,214.79	7,633.65	6,985.22	36.33	60.82	-89.23	-965.30	2,751.80	1,714.74	1,645.43	69.31	24.741		
7,419.21	7,234.00	7,676.98	7,028.15	36.37	60.97	-89.30	-967.31	2,757.32	1,717.17	1,647.78	69.39	24.746		
7,450.00	7,264.77	7,746.80	7,097.49	36.46	61.19	-89.98	-970.09	2,764.92	1,720.52	1,650.99	69.53	24.746		
7,500.00	7,314.52	7,860.49	7,210.77	36.62	61.49	-89.84	-973.37	2,773.90	1,724.46	1,654.67	69.79	24.710		
7,550.00	7,363.66	7,973.14	7,323.31	36.81	61.74	-90.26	-975.09	2,778.63	1,726.59	1,656.49	70.09	24.633		
7,600.00	7,411.80	8,061.65	7,411.80	37.03	61.89	-90.96	-975.40	2,779.47	1,727.14	1,656.58	70.56	24.479		
7,650.00	7,458.60	8,108.44	7,458.60	37.29	61.95	-91.47	-975.40	2,779.47	1,727.54	1,656.23	71.31	24.227		
7,700.00	7,503.68	8,154.73	7,504.88	37.57	62.02	-92.06	-975.49	2,779.47	1,728.27	1,656.10	72.17	23.948		
7,750.00	7,546.72	8,206.60	7,556.64	37.89	62.11	-92.73	-978.72	2,779.49	1,729.33	1,656.27	73.07	23.668		
7,800.00	7,587.37	8,261.13	7,610.49	38.23	62.23	-93.41	-987.16	2,779.54	1,730.68	1,656.69	73.99	23.390		
7,850.00	7,625.34	8,318.67	7,666.17	38.59	62.37	-94.08	-1,001.56	2,779.63	1,732.28	1,657.37	74.91	23.125		
7,900.00	7,660.33	8,379.60	7,723.25	38.99	62.55	-94.76	-1,022.82	2,779.76	1,734.09	1,658.28	75.81	22.875		
7,950.00	7,692.07	8,444.32	7,781.03	39.40	62.76	-95.42	-1,051.89	2,779.94	1,736.05	1,659.39	76.66	22.646		
8,000.00	7,720.33	8,513.19	7,838.50	39.85	63.02	-96.07	-1,089.77	2,780.17	1,738.10	1,660.65	77.45	22.443		
8,050.00	7,744.88	8,586.48	7,894.19	40.31	63.32	-96.70	-1,137.33	2,780.45	1,740.13	1,661.99	78.14	22.268		
8,100.00	7,765.55	8,664.32	7,946.19	40.79	63.68	-97.27	-1,195.18	2,780.80	1,742.06	1,663.31	78.75	22.123		
8,150.00	7,782.18	8,746.59	7,992.08	41.30	64.09	-97.78	-1,263.37	2,781.22	1,743.76	1,664.51	79.25	22.004		
8,200.00	7,794.63	8,832.83	8,029.20	41.81	64.56	-98.18	-1,341.12	2,781.69	1,745.13	1,665.45	79.68	21.902		
8,250.00	7,802.82	8,922.19	8,054.91	42.34	65.08	-98.46	-1,426.61	2,782.21	1,746.06	1,665.99	80.07	21.806		
8,300.00	7,806.68	9,013.48	8,067.14	42.88	65.65	-98.59	-1,516.97	2,782.75	1,746.49	1,666.01	80.48	21.701		
8,319.29	7,807.00	9,048.90	8,067.99	43.09	65.88	-98.59	-1,552.38	2,782.97	1,746.51	1,665.86	80.66	21.654		
8,322.70	7,807.00	9,050.50	8,068.00	43.13	65.89	-98.59	-1,553.98	2,782.98	1,746.51	1,665.76	80.76	21.626		
8,400.00	7,807.00	9,127.80	8,068.00	43.98	66.39	-98.59	-1,631.28	2,783.45	1,746.52	1,664.04	82.48	21.175		
8,500.00	7,807.00	9,227.80	8,068.00	45.12	67.08	-98.59	-1,731.27	2,784.05	1,746.53	1,661.74	84.78	20.601		
8,600.00	7,806.99	9,327.80	8,067.99	46.31	67.80	-98.59	-1,831.27	2,784.66	1,746.53	1,659.37	87.16	20.038		
8,700.00	7,806.99	9,427.80	8,067.99	47.53	68.56	-98.59	-1,931.27	2,785.26	1,746.54	1,656.92	89.62	19.489		
8,800.00	7,806.99	9,527.80	8,067.99	48.78	69.35	-98.59	-2,031.27	2,785.87	1,746.54	1,654.40	92.14	18.955		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,627.80	8,067.99	50.07	70.17	-98.59	-2,131.27	2,786.47	1,746.55	1,651.82	94.73	18.438		
9,000.00	7,806.98	9,727.80	8,067.98	51.38	71.03	-98.59	-2,231.26	2,787.08	1,746.56	1,649.18	97.37	17.937		
9,100.00	7,806.98	9,827.80	8,067.98	52.72	71.92	-98.59	-2,331.26	2,787.69	1,746.56	1,646.49	100.07	17.453		
9,200.00	7,806.98	9,927.80	8,067.98	54.09	72.83	-98.59	-2,431.26	2,788.29	1,746.57	1,643.75	102.82	16.987		
9,300.00	7,806.98	10,027.80	8,067.98	55.48	73.78	-98.59	-2,531.26	2,788.90	1,746.57	1,640.96	105.61	16.538		
9,400.00	7,806.97	10,127.80	8,067.97	56.89	74.76	-98.59	-2,631.26	2,789.50	1,746.58	1,638.14	108.44	16.106		
9,500.00	7,806.97	10,227.80	8,067.97	58.32	75.77	-98.59	-2,731.26	2,790.11	1,746.59	1,635.27	111.32	15.690		
9,600.00	7,806.97	10,327.80	8,067.97	59.77	76.80	-98.59	-2,831.25	2,790.71	1,746.59	1,632.37	114.23	15.291		
9,700.00	7,806.97	10,427.80	8,067.97	61.23	77.86	-98.59	-2,931.25	2,791.32	1,746.60	1,629.43	117.17	14.907		
9,800.00	7,806.96	10,527.80	8,067.97	62.71	78.95	-98.59	-3,031.25	2,791.93	1,746.60	1,626.46	120.14	14.538		
9,900.00	7,806.96	10,627.80	8,067.96	64.21	80.06	-98.59	-3,131.25	2,792.53	1,746.61	1,623.47	123.14	14.184		
10,000.00	7,806.96	10,727.80	8,067.96	65.72	81.20	-98.59	-3,231.25	2,793.14	1,746.62	1,620.45	126.17	13.844		
10,100.00	7,806.96	10,827.80	8,067.96	67.24	82.36	-98.59	-3,331.24	2,793.74	1,746.62	1,617.40	129.22	13.517		
10,200.00	7,806.95	10,927.80	8,067.96	68.78	83.55	-98.59	-3,431.24	2,794.35	1,746.63	1,614.33	132.29	13.203		
10,300.00	7,806.95	11,027.80	8,067.95	70.32	84.76	-98.59	-3,531.24	2,794.95	1,746.63	1,611.24	135.39	12.901		
10,400.00	7,806.95	11,127.80	8,067.95	71.88	85.98	-98.59	-3,631.24	2,795.56	1,746.64	1,608.13	138.51	12.611		
10,500.00	7,806.95	11,227.80	8,067.95	73.45	87.23	-98.59	-3,731.24	2,796.17	1,746.65	1,605.01	141.64	12.332		
10,600.00	7,806.95	11,327.80	8,067.95	75.02	88.50	-98.59	-3,831.24	2,796.77	1,746.65	1,601.86	144.79	12.063		
10,700.00	7,806.94	11,427.80	8,067.94	76.61	89.78	-98.59	-3,931.23	2,797.38	1,746.66	1,598.70	147.96	11.805		
10,800.00	7,806.94	11,527.80	8,067.94	78.20	91.09	-98.59	-4,031.23	2,797.98	1,746.66	1,595.52	151.14	11.556		
10,900.00	7,806.94	11,627.80	8,067.94	79.80	92.41	-98.59	-4,131.23	2,798.59	1,746.67	1,592.33	154.34	11.317		
11,000.00	7,806.94	11,727.80	8,067.94	81.41	93.74	-98.59	-4,231.23	2,799.19	1,746.68	1,589.12	157.55	11.086		
11,100.00	7,806.93	11,827.80	8,067.93	83.02	95.10	-98.59	-4,331.23	2,799.80	1,746.68	1,585.91	160.78	10.864		
11,200.00	7,806.93	11,927.80	8,067.93	84.64	96.46	-98.59	-4,431.22	2,800.41	1,746.69	1,582.68	164.01	10.650		
11,300.00	7,806.93	12,027.80	8,067.93	86.27	97.84	-98.59	-4,531.22	2,801.01	1,746.69	1,579.44	167.26	10.443		
11,400.00	7,806.93	12,127.80	8,067.93	87.90	99.24	-98.59	-4,631.22	2,801.62	1,746.70	1,576.18	170.52	10.244		
11,500.00	7,806.92	12,227.80	8,067.93	89.54	100.65	-98.59	-4,731.22	2,802.22	1,746.71	1,572.92	173.78	10.051		
11,600.00	7,806.92	12,327.80	8,067.92	91.18	102.07	-98.59	-4,831.22	2,802.83	1,746.71	1,569.65	177.06	9.865		
11,700.00	7,806.92	12,427.80	8,067.92	92.83	103.50	-98.59	-4,931.22	2,803.44	1,746.72	1,566.37	180.35	9.685		
11,800.00	7,806.92	12,527.80	8,067.92	94.48	104.94	-98.59	-5,031.21	2,804.04	1,746.72	1,563.08	183.64	9.512		
11,900.00	7,806.91	12,627.80	8,067.92	96.14	106.40	-98.59	-5,131.21	2,804.65	1,746.73	1,559.79	186.94	9.344		
12,000.00	7,806.91	12,727.80	8,067.91	97.80	107.86	-98.59	-5,231.21	2,805.25	1,746.74	1,556.48	190.25	9.181		
12,100.00	7,806.91	12,827.80	8,067.91	99.46	109.34	-98.59	-5,331.21	2,805.86	1,746.74	1,553.17	193.57	9.024		
12,200.00	7,806.91	12,927.80	8,067.91	101.13	110.82	-98.59	-5,431.21	2,806.46	1,746.75	1,549.86	196.89	8.872		
12,300.00	7,806.90	13,027.80	8,067.91	102.80	112.32	-98.59	-5,531.20	2,807.07	1,746.75	1,546.53	200.22	8.724		
12,400.00	7,806.90	13,127.80	8,067.90	104.47	113.82	-98.59	-5,631.20	2,807.68	1,746.76	1,543.20	203.56	8.581		
12,500.00	7,806.90	13,227.80	8,067.90	106.15	115.33	-98.59	-5,731.20	2,808.28	1,746.77	1,539.87	206.90	8.443		
12,600.00	7,806.90	13,327.80	8,067.90	107.83	116.85	-98.59	-5,831.20	2,808.89	1,746.77	1,536.52	210.25	8.308		
12,700.00	7,806.89	13,427.80	8,067.90	109.52	118.38	-98.59	-5,931.20	2,809.49	1,746.78	1,533.18	213.60	8.178		
12,800.00	7,806.89	13,527.80	8,067.89	111.20	119.91	-98.59	-6,031.20	2,810.10	1,746.78	1,529.82	216.96	8.051		
12,900.00	7,806.89	13,627.80	8,067.89	112.89	121.45	-98.59	-6,131.19	2,810.70	1,746.79	1,526.47	220.32	7.928		
13,000.00	7,806.89	13,727.80	8,067.89	114.59	123.00	-98.59	-6,231.19	2,811.31	1,746.80	1,523.10	223.69	7.809		
13,100.00	7,806.88	13,827.80	8,067.89	116.28	124.56	-98.59	-6,331.19	2,811.92	1,746.80	1,519.74	227.06	7.693		
13,200.00	7,806.88	13,927.80	8,067.89	117.98	126.12	-98.59	-6,431.19	2,812.52	1,746.81	1,516.37	230.44	7.580		
13,300.00	7,806.88	14,027.80	8,067.88	119.68	127.68	-98.59	-6,531.19	2,813.13	1,746.81	1,512.99	233.82	7.471		
13,400.00	7,806.88	14,127.80	8,067.88	121.38	129.26	-98.59	-6,631.18	2,813.73	1,746.82	1,509.62	237.21	7.364		
13,500.00	7,806.88	14,227.80	8,067.88	123.08	130.84	-98.59	-6,731.18	2,814.34	1,746.83	1,506.23	240.59	7.261		
13,600.00	7,806.87	14,327.80	8,067.88	124.79	132.42	-98.59	-6,831.18	2,814.94	1,746.83	1,502.85	243.98	7.160		
13,700.00	7,806.87	14,427.80	8,067.87	126.49	134.01	-98.59	-6,931.18	2,815.55	1,746.84	1,499.46	247.38	7.061		
13,800.00	7,806.87	14,527.80	8,067.87	128.20	135.60	-98.59	-7,031.18	2,816.16	1,746.84	1,496.07	250.78	6.966		
13,900.00	7,806.87	14,627.80	8,067.87	129.91	137.20	-98.59	-7,131.17	2,816.76	1,746.85	1,492.67	254.18	6.873		
14,000.00	7,806.86	14,727.80	8,067.87	131.62	138.80	-98.59	-7,231.17	2,817.37	1,746.86	1,489.27	257.58	6.782		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,827.80	8,067.86	133.34	140.41	-98.59	-7,331.17	2,817.97	1,746.86	1,485.87	260.99	6.693		
14,200.00	7,806.86	14,927.80	8,067.86	135.05	142.02	-98.59	-7,431.17	2,818.58	1,746.87	1,482.47	264.40	6.607		
14,300.00	7,806.86	15,027.80	8,067.86	136.77	143.64	-98.59	-7,531.17	2,819.18	1,746.87	1,479.06	267.81	6.523		
14,400.00	7,806.85	15,127.80	8,067.86	138.49	145.26	-98.59	-7,631.17	2,819.79	1,746.88	1,475.65	271.23	6.441		
14,500.00	7,806.85	15,227.80	8,067.85	140.21	146.88	-98.59	-7,731.16	2,820.40	1,746.89	1,472.24	274.65	6.360		
14,600.00	7,806.85	15,327.80	8,067.85	141.93	148.51	-98.59	-7,831.16	2,821.00	1,746.89	1,468.82	278.07	6.282		
14,700.00	7,806.85	15,427.80	8,067.85	143.65	150.14	-98.59	-7,931.16	2,821.61	1,746.90	1,465.41	281.49	6.206		
14,800.00	7,806.84	15,527.80	8,067.85	145.37	151.78	-98.59	-8,031.16	2,822.21	1,746.90	1,461.99	284.92	6.131		
14,900.00	7,806.84	15,627.80	8,067.85	147.10	153.41	-98.59	-8,131.16	2,822.82	1,746.91	1,458.57	288.34	6.058		
15,000.00	7,806.84	15,727.80	8,067.84	148.83	155.05	-98.59	-8,231.15	2,823.42	1,746.92	1,455.15	291.77	5.987		
15,100.00	7,806.84	15,827.80	8,067.84	150.55	156.70	-98.59	-8,331.15	2,824.03	1,746.92	1,451.72	295.20	5.918		
15,200.00	7,806.83	15,927.80	8,067.84	152.28	158.35	-98.59	-8,431.15	2,824.64	1,746.93	1,448.29	298.64	5.850		
15,300.00	7,806.83	16,027.80	8,067.84	154.01	160.00	-98.59	-8,531.15	2,825.24	1,746.93	1,444.86	302.07	5.783		
15,400.00	7,806.83	16,127.80	8,067.83	155.74	161.65	-98.59	-8,631.15	2,825.85	1,746.94	1,441.43	305.51	5.718		
15,500.00	7,806.83	16,227.80	8,067.83	157.47	163.30	-98.59	-8,731.15	2,826.45	1,746.95	1,438.00	308.95	5.655		
15,600.00	7,806.82	16,327.80	8,067.83	159.20	164.96	-98.59	-8,831.14	2,827.06	1,746.95	1,434.57	312.39	5.592		
15,700.00	7,806.82	16,427.80	8,067.83	160.93	166.62	-98.59	-8,931.14	2,827.67	1,746.96	1,431.13	315.83	5.531		
15,800.00	7,806.82	16,527.80	8,067.82	162.67	168.28	-98.59	-9,031.14	2,828.27	1,746.97	1,427.69	319.27	5.472		
15,900.00	7,806.82	16,627.80	8,067.82	164.40	169.95	-98.59	-9,131.14	2,828.88	1,746.97	1,424.26	322.72	5.413		
16,000.00	7,806.81	16,727.80	8,067.82	166.14	171.62	-98.59	-9,231.14	2,829.48	1,746.98	1,420.82	326.16	5.356		
16,100.00	7,806.81	16,827.80	8,067.82	167.87	173.29	-98.59	-9,331.13	2,830.09	1,746.98	1,417.37	329.61	5.300		
16,200.00	7,806.81	16,927.80	8,067.81	169.61	174.96	-98.59	-9,431.13	2,830.69	1,746.99	1,413.93	333.06	5.245		
16,300.00	7,806.81	17,027.80	8,067.81	171.35	176.63	-98.59	-9,531.13	2,831.30	1,747.00	1,410.49	336.51	5.192		
16,400.00	7,806.81	17,127.80	8,067.81	173.09	178.31	-98.59	-9,631.13	2,831.91	1,747.00	1,407.04	339.96	5.139		
16,500.00	7,806.80	17,227.80	8,067.81	174.83	179.99	-98.59	-9,731.13	2,832.51	1,747.01	1,403.59	343.41	5.087		
16,600.00	7,806.80	17,327.80	8,067.81	176.57	181.67	-98.59	-9,831.13	2,833.12	1,747.01	1,400.15	346.87	5.037		
16,700.00	7,806.80	17,427.80	8,067.80	178.31	183.35	-98.59	-9,931.12	2,833.72	1,747.02	1,396.70	350.32	4.987		
16,800.00	7,806.80	17,527.80	8,067.80	180.05	185.03	-98.59	-10,031.12	2,834.33	1,747.03	1,393.25	353.78	4.938		
16,900.00	7,806.79	17,627.80	8,067.80	181.79	186.72	-98.59	-10,131.12	2,834.93	1,747.03	1,389.79	357.24	4.890		
17,000.00	7,806.79	17,727.80	8,067.80	183.53	188.40	-98.59	-10,231.12	2,835.54	1,747.04	1,386.34	360.70	4.844		
17,100.00	7,806.79	17,827.80	8,067.79	185.27	190.09	-98.59	-10,331.12	2,836.15	1,747.04	1,382.89	364.16	4.798		
17,200.00	7,806.79	17,927.80	8,067.79	187.02	191.78	-98.59	-10,431.11	2,836.75	1,747.05	1,379.43	367.62	4.752		
17,300.00	7,806.78	18,027.80	8,067.79	188.76	193.48	-98.59	-10,531.11	2,837.36	1,747.06	1,375.98	371.08	4.708		
17,400.00	7,806.78	18,127.80	8,067.79	190.51	195.17	-98.59	-10,631.11	2,837.96	1,747.06	1,372.52	374.54	4.665		
17,500.00	7,806.78	18,227.80	8,067.78	192.25	196.86	-98.59	-10,731.11	2,838.57	1,747.07	1,369.06	378.01	4.622		
17,600.00	7,806.78	18,327.80	8,067.78	194.00	198.56	-98.59	-10,831.11	2,839.17	1,747.07	1,365.60	381.47	4.580		
17,700.00	7,806.77	18,427.80	8,067.78	195.74	200.26	-98.59	-10,931.11	2,839.78	1,747.08	1,362.14	384.94	4.539		
17,800.00	7,806.77	18,527.80	8,067.78	197.49	201.96	-98.59	-11,031.10	2,840.39	1,747.09	1,358.68	388.40	4.498		
17,900.00	7,806.77	18,627.80	8,067.77	199.24	203.66	-98.59	-11,131.10	2,840.99	1,747.09	1,355.22	391.87	4.458		
17,973.82	7,807.00	18,707.05	8,067.87	200.53	205.01	-98.59	-11,210.35	2,841.43	1,747.20	1,352.86	394.34	4.431		
17,974.53	7,807.00	18,707.76	8,067.88	200.55	205.02	-98.59	-11,211.06	2,841.43	1,747.20	1,352.84	394.36	4.430 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.70	125.96	125.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.70	125.96	125.96	125.69	0.27	468.516		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.70	125.96	125.96	124.98	0.99	127.777		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.70	125.96	125.96	124.26	1.70	73.976		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.70	125.96	125.96	123.54	2.42	52.057		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.70	125.96	125.96	122.83	3.14	40.159	CC, ES	
600.00	600.00	595.93	595.92	1.93	1.90	90.53	-1.19	127.49	127.56	123.73	3.83	33.315		
700.00	700.00	691.65	691.51	2.29	2.23	91.14	-2.64	132.07	132.37	127.86	4.51	29.326		
800.00	800.00	786.95	786.47	2.64	2.57	92.06	-5.03	139.65	140.40	135.20	5.20	27.013		
900.00	900.00	881.61	880.48	3.00	2.93	93.19	-8.36	150.16	151.65	145.77	5.88	25.802		
1,000.00	1,000.00	975.44	973.26	3.36	3.29	94.40	-12.57	163.49	166.14	159.59	6.55	25.358		
1,100.00	1,100.00	1,068.25	1,064.53	3.72	3.68	95.61	-17.65	179.52	183.84	176.62	7.22	25.470		
1,200.00	1,199.98	1,160.18	1,154.35	4.06	4.09	-36.45	-23.55	198.17	203.34	195.48	7.86	25.871		
1,300.00	1,299.84	1,251.50	1,242.91	4.40	4.53	-35.85	-30.26	219.40	223.20	214.73	8.47	26.337		
1,400.00	1,399.45	1,342.18	1,330.10	4.74	5.01	-35.64	-37.77	243.14	243.36	234.25	9.10	26.733		
1,500.00	1,498.70	1,432.23	1,415.86	5.09	5.51	-35.72	-46.05	269.30	263.78	254.04	9.73	27.102		
1,600.00	1,597.47	1,521.63	1,500.12	5.46	6.06	-36.03	-55.07	297.81	284.45	274.08	10.37	27.429		
1,700.00	1,695.62	1,610.39	1,582.79	5.85	6.65	-36.51	-64.80	328.58	305.39	294.37	11.02	27.706		
1,800.00	1,793.06	1,698.49	1,663.83	6.27	7.28	-37.12	-75.22	361.52	326.60	314.91	11.69	27.929		
1,867.07	1,857.94	1,757.21	1,717.25	6.57	7.73	-37.59	-82.58	384.78	340.99	328.83	12.16	28.040		
1,900.00	1,889.69	1,785.92	1,743.17	6.72	7.96	-37.91	-86.30	396.54	348.25	335.86	12.39	28.101		
2,000.00	1,986.13	1,872.32	1,820.44	7.19	8.68	-38.72	-97.96	433.40	372.26	359.14	13.12	28.384		
2,100.00	2,082.57	1,957.49	1,895.43	7.68	9.44	-39.33	-110.14	471.89	399.13	385.28	13.85	28.825		
2,200.00	2,179.00	2,041.30	1,968.01	8.18	10.24	-39.77	-122.77	511.83	428.75	414.17	14.58	29.403		
2,300.00	2,275.44	2,123.65	2,038.11	8.69	11.07	-40.06	-135.80	553.03	461.05	445.74	15.32	30.103		
2,400.00	2,371.88	2,211.03	2,111.31	9.21	12.01	-40.25	-150.20	598.53	495.62	479.47	16.15	30.685		
2,500.00	2,468.31	2,304.74	2,189.64	9.74	13.04	-40.42	-165.71	647.56	530.51	513.41	17.11	31.014		
2,600.00	2,564.75	2,401.56	2,267.96	10.28	14.12	-40.57	-181.22	696.60	565.41	547.32	18.09	31.255		
2,700.00	2,661.19	2,492.14	2,346.29	10.82	15.14	-40.70	-196.73	745.64	600.31	581.26	19.05	31.511		
2,800.00	2,757.62	2,585.85	2,424.62	11.37	16.20	-40.82	-212.25	794.68	635.22	615.18	20.04	31.700		
2,900.00	2,854.06	2,679.55	2,502.94	11.92	17.27	-40.92	-227.76	843.72	670.12	649.09	21.03	31.858		
3,000.00	2,950.50	2,773.25	2,581.27	12.47	18.34	-41.02	-243.27	892.76	705.03	682.99	22.04	31.992		
3,100.00	3,046.93	2,866.96	2,659.59	13.03	19.43	-41.10	-258.79	941.80	739.94	716.89	23.05	32.105		
3,200.00	3,143.37	2,960.66	2,737.92	13.59	20.51	-41.18	-274.30	990.84	774.85	750.79	24.06	32.201		
3,300.00	3,239.81	3,054.36	2,816.24	14.15	21.60	-41.25	-289.81	1,039.87	809.76	784.68	25.08	32.284		
3,400.00	3,336.24	3,148.07	2,894.57	14.72	22.69	-41.32	-305.33	1,088.91	844.67	818.57	26.11	32.355		
3,500.00	3,432.68	3,241.77	2,972.89	15.28	23.78	-41.38	-320.84	1,137.95	879.59	852.45	27.13	32.416		
3,600.00	3,529.12	3,335.47	3,051.22	15.85	24.88	-41.43	-336.35	1,186.99	914.50	886.34	28.17	32.468		
3,700.00	3,625.55	3,429.18	3,129.54	16.42	25.98	-41.49	-351.86	1,236.03	949.42	920.22	29.20	32.514		
3,800.00	3,721.99	3,522.88	3,207.87	16.99	27.08	-41.53	-367.38	1,285.07	984.33	954.10	30.24	32.553		
3,900.00	3,818.43	3,616.58	3,286.20	17.56	28.18	-41.58	-382.89	1,334.11	1,019.25	987.97	31.28	32.587		
4,000.00	3,914.86	3,710.29	3,364.52	18.14	29.28	-41.62	-398.40	1,383.15	1,054.17	1,021.85	32.32	32.617		
4,100.00	4,011.30	3,803.99	3,442.85	18.71	30.39	-41.66	-413.92	1,432.18	1,089.08	1,055.72	33.36	32.642		
4,200.00	4,107.74	3,902.31	3,521.17	19.29	31.55	-41.70	-429.43	1,481.22	1,124.00	1,089.56	34.44	32.638		
4,300.00	4,204.17	4,008.60	3,599.50	19.86	32.80	-41.73	-444.94	1,530.26	1,158.92	1,123.36	35.56	32.586		
4,400.00	4,300.61	4,085.10	3,677.82	20.44	33.71	-41.76	-460.46	1,579.30	1,193.84	1,157.33	36.51	32.701		
4,500.00	4,397.05	4,178.81	3,756.15	21.02	34.81	-41.79	-475.97	1,628.34	1,228.76	1,191.20	37.56	32.716		
4,600.00	4,493.48	4,272.51	3,834.47	21.59	35.92	-41.82	-491.48	1,677.38	1,263.68	1,225.06	38.61	32.728		
4,700.00	4,589.92	4,366.21	3,912.80	22.17	37.03	-41.85	-506.99	1,726.42	1,298.60	1,258.93	39.66	32.739		
4,800.00	4,686.36	4,459.92	3,991.12	22.75	38.14	-41.87	-522.51	1,775.45	1,333.51	1,292.80	40.72	32.749		
4,900.00	4,782.79	4,553.62	4,069.45	23.33	39.25	-41.90	-538.02	1,824.49	1,368.43	1,326.66	41.78	32.757		
5,000.00	4,879.23	4,647.32	4,147.77	23.91	40.36	-41.92	-553.53	1,873.53	1,403.35	1,360.52	42.83	32.764		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,741.03	4,226.10	24.49	41.47	-41.94	-569.05	1,922.57	1,438.27	1,394.38	43.89	32.770		
5,200.00	5,072.10	4,834.73	4,304.43	25.07	42.59	-41.97	-584.56	1,971.61	1,473.20	1,428.25	44.95	32.775		
5,300.00	5,168.54	4,928.43	4,382.75	25.66	43.70	-41.99	-600.07	2,020.65	1,508.12	1,462.11	46.01	32.779		
5,400.00	5,264.98	5,022.14	4,461.08	26.24	44.81	-42.00	-615.59	2,069.69	1,543.04	1,495.97	47.07	32.782		
5,500.00	5,361.41	5,115.84	4,539.40	26.82	45.92	-42.02	-631.10	2,118.73	1,577.96	1,529.83	48.13	32.785		
5,600.00	5,457.85	5,209.54	4,617.73	27.40	47.04	-42.04	-646.61	2,167.76	1,612.88	1,563.69	49.19	32.787		
5,700.00	5,554.29	5,303.25	4,696.05	27.99	48.15	-42.06	-662.12	2,216.80	1,647.80	1,597.54	50.25	32.789		
5,800.00	5,650.72	5,403.05	4,774.38	28.57	49.34	-42.07	-677.64	2,265.84	1,682.72	1,631.36	51.36	32.765		
5,900.00	5,747.16	5,490.65	4,852.70	29.15	50.38	-42.09	-693.15	2,314.88	1,717.64	1,665.26	52.38	32.791		
6,000.00	5,843.60	5,584.36	4,931.03	29.74	51.49	-42.10	-708.66	2,363.92	1,752.56	1,699.12	53.45	32.791		
6,100.00	5,940.03	5,678.06	5,009.35	30.32	52.61	-42.12	-724.18	2,412.96	1,787.48	1,732.97	54.51	32.791		
6,200.00	6,036.47	5,771.76	5,087.68	30.90	53.72	-42.13	-739.69	2,462.00	1,822.41	1,766.83	55.58	32.791		
6,300.00	6,132.91	5,865.47	5,166.00	31.49	54.84	-42.15	-755.20	2,511.04	1,857.33	1,800.68	56.64	32.790		
6,400.00	6,229.34	5,959.17	5,244.33	32.07	55.95	-42.16	-770.71	2,560.07	1,892.25	1,834.54	57.71	32.789		
6,500.00	6,325.78	6,052.87	5,322.66	32.66	57.07	-42.17	-786.23	2,609.11	1,927.17	1,868.39	58.78	32.788		
6,552.14	6,376.06	6,101.73	5,363.50	32.96	57.65	-42.18	-794.32	2,634.68	1,945.38	1,886.05	59.33	32.787		
6,600.00	6,422.32	6,146.47	5,400.89	33.24	58.18	-42.42	-801.72	2,658.10	1,962.37	1,902.53	59.84	32.796		
6,700.00	6,519.60	6,239.24	5,478.44	33.78	59.29	-42.90	-817.08	2,706.65	1,999.64	1,938.81	60.83	32.872		
6,800.00	6,617.63	6,330.95	5,555.10	34.27	60.38	-43.36	-832.26	2,754.64	2,039.28	1,977.53	61.75	33.023		
6,900.00	6,716.28	6,405.40	5,791.00	34.72	63.38	-43.47	-874.51	2,888.18	2,077.58	2,013.06	64.52	32.198		
7,000.00	6,815.45	6,915.95	6,072.65	35.13	66.13	-43.51	-913.85	3,012.55	2,108.97	2,041.99	66.97	31.489		
7,100.00	6,915.00	7,244.16	6,383.80	35.49	68.27	-43.52	-945.19	3,111.60	2,132.61	2,063.89	68.72	31.033		
7,200.00	7,014.82	7,585.94	6,718.21	35.81	69.78	-43.52	-966.19	3,177.99	2,147.83	2,078.20	69.63	30.846		
7,300.00	7,114.79	7,300.00	7,005.21	36.09	69.39	-43.54	-974.36	3,203.84	2,154.07	2,085.69	68.38	31.502		
7,319.21	7,134.00	8,003.21	7,134.00	36.14	70.74	89.66	-975.34	3,206.92	2,154.30	2,084.42	69.51	30.992		
7,400.00	7,214.79	8,084.00	7,214.79	36.33	70.85	89.66	-975.34	3,206.92	2,154.30	2,084.42	69.89	30.826		
7,419.21	7,234.00	8,103.21	7,234.00	36.37	70.87	89.66	-975.34	3,206.92	2,154.30	2,084.33	69.97	30.787		
7,450.00	7,264.77	8,134.52	7,265.29	36.46	70.91	-89.99	-976.19	3,206.92	2,154.30	2,084.16	70.14	30.716		
7,500.00	7,314.52	8,185.36	7,315.87	36.62	70.99	-89.99	-981.22	3,206.92	2,154.28	2,083.83	70.45	30.579		
7,550.00	7,363.66	8,236.19	7,365.79	36.81	71.09	-89.99	-990.70	3,206.94	2,154.23	2,083.41	70.83	30.415		
7,600.00	7,411.80	8,287.00	7,414.65	37.03	71.20	-89.99	-1,004.56	3,206.96	2,154.17	2,082.90	71.27	30.225		
7,650.00	7,458.60	8,337.79	7,462.08	37.29	71.32	-89.99	-1,022.69	3,206.99	2,154.09	2,082.31	71.78	30.010		
7,700.00	7,503.88	8,388.54	7,507.69	37.57	71.47	-89.99	-1,044.92	3,207.02	2,153.99	2,081.64	72.35	29.772		
7,750.00	7,546.72	8,439.26	7,551.12	37.89	71.62	-89.99	-1,071.09	3,207.06	2,153.88	2,080.90	72.98	29.513		
7,800.00	7,587.37	8,489.94	7,592.03	38.23	71.79	-89.99	-1,100.97	3,207.10	2,153.74	2,080.07	73.67	29.234		
7,850.00	7,625.34	8,540.57	7,630.12	38.59	71.97	-89.99	-1,134.31	3,207.15	2,153.59	2,079.17	74.42	28.937		
7,900.00	7,660.33	8,591.15	7,665.07	38.99	72.16	-89.99	-1,170.84	3,207.20	2,153.43	2,078.20	75.23	28.623		
7,950.00	7,692.07	8,641.68	7,696.64	39.40	72.37	-89.99	-1,210.27	3,207.26	2,153.25	2,077.16	76.10	28.296		
8,000.00	7,720.33	8,692.14	7,724.58	39.85	72.59	-90.00	-1,252.27	3,207.32	2,153.07	2,076.05	77.01	27.958		
8,050.00	7,744.88	8,742.54	7,748.69	40.31	72.82	-90.00	-1,296.51	3,207.39	2,152.87	2,074.89	77.97	27.610		
8,100.00	7,765.55	8,792.87	7,768.80	40.79	73.06	-90.00	-1,342.63	3,207.46	2,152.66	2,073.68	78.98	27.257		
8,150.00	7,782.18	8,843.14	7,784.77	41.30	73.30	-90.00	-1,390.28	3,207.53	2,152.45	2,072.43	80.02	26.900		
8,200.00	7,794.63	8,893.33	7,796.48	41.81	73.56	-90.00	-1,439.07	3,207.60	2,152.23	2,071.14	81.09	26.542		
8,250.00	7,802.82	8,943.46	7,803.88	42.34	73.83	-90.00	-1,488.62	3,207.67	2,152.00	2,069.82	82.18	26.186		
8,300.00	7,806.68	8,993.51	7,806.92	42.88	74.10	-90.00	-1,538.57	3,207.74	2,151.78	2,068.49	83.29	25.836		
8,319.29	7,807.00	9,012.80	7,807.00	43.09	74.21	-90.00	-1,557.86	3,207.77	2,151.69	2,067.97	83.72	25.702		
8,400.00	7,807.00	9,093.51	7,807.00	43.98	74.66	-90.00	-1,638.57	3,207.89	2,151.32	2,065.79	85.54	25.151		
8,500.00	7,807.00	9,193.51	7,807.00	45.12	75.26	-90.00	-1,738.57	3,208.04	2,150.87	2,063.00	87.87	24.478		
8,600.00	7,806.99	9,293.51	7,807.00	46.31	75.88	-90.00	-1,838.57	3,208.18	2,150.42	2,060.14	90.28	23.819		
8,700.00	7,806.99	9,393.51	7,807.00	47.53	76.53	-90.00	-1,938.57	3,208.33	2,149.96	2,057.20	92.77	23.176		
8,800.00	7,806.99	9,493.51	7,807.00	48.78	77.21	-90.00	-2,038.57	3,208.48	2,149.51	2,054.19	95.32	22.551		
8,900.00	7,806.99	9,593.51	7,807.00	50.07	77.92	-90.00	-2,138.57	3,208.62	2,149.06	2,051.13	97.93	21.945		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	9,693.52	7,807.00	51.38	78.66	-90.00	-2,238.58	3,208.77	2,148.61	2,048.01	100.60	21.358		
9,100.00	7,806.98	9,793.52	7,807.00	52.72	79.42	-90.00	-2,338.58	3,208.92	2,148.15	2,044.83	103.32	20.791		
9,200.00	7,806.98	9,893.52	7,807.00	54.09	80.22	-90.00	-2,438.58	3,209.06	2,147.70	2,041.61	106.09	20.244		
9,300.00	7,806.98	9,993.52	7,807.00	55.48	81.04	-90.00	-2,538.58	3,209.21	2,147.24	2,038.34	108.91	19.716		
9,400.00	7,806.97	10,093.52	7,807.00	56.89	81.89	-90.00	-2,638.58	3,209.36	2,146.79	2,035.03	111.76	19.209		
9,500.00	7,806.97	10,193.52	7,807.00	58.32	82.77	-90.00	-2,738.58	3,209.50	2,146.34	2,031.68	114.66	18.720		
9,600.00	7,806.97	10,293.53	7,807.00	59.77	83.68	-90.00	-2,838.58	3,209.65	2,145.88	2,028.30	117.59	18.249		
9,700.00	7,806.97	10,393.53	7,807.00	61.23	84.62	-90.00	-2,938.59	3,209.79	2,145.43	2,024.88	120.55	17.797		
9,800.00	7,806.96	10,493.53	7,807.00	62.71	85.58	-90.00	-3,038.59	3,209.94	2,144.97	2,021.43	123.54	17.362		
9,900.00	7,806.96	10,593.53	7,807.00	64.21	86.56	-90.00	-3,138.59	3,210.08	2,144.52	2,017.96	126.56	16.944		
10,000.00	7,806.96	10,693.53	7,807.00	65.72	87.57	-90.00	-3,238.59	3,210.23	2,144.07	2,014.45	129.61	16.542		
10,100.00	7,806.96	10,793.53	7,807.00	67.24	88.61	-90.00	-3,338.59	3,210.37	2,143.61	2,010.93	132.68	16.156		
10,200.00	7,806.95	10,893.53	7,807.01	68.78	89.67	-90.00	-3,438.59	3,210.52	2,143.16	2,007.38	135.78	15.784		
10,300.00	7,806.95	10,993.54	7,807.01	70.32	90.75	-90.00	-3,538.59	3,210.66	2,142.70	2,003.81	138.90	15.427		
10,400.00	7,806.95	11,093.54	7,807.01	71.88	91.86	-90.00	-3,638.60	3,210.81	2,142.25	2,000.21	142.03	15.083		
10,500.00	7,806.95	11,193.54	7,807.01	73.45	92.98	-90.00	-3,738.60	3,210.95	2,141.79	1,996.60	145.19	14.752		
10,600.00	7,806.95	11,293.54	7,807.01	75.02	94.13	-90.00	-3,838.60	3,211.10	2,141.34	1,992.97	148.36	14.433		
10,700.00	7,806.94	11,393.54	7,807.01	76.61	95.30	-90.00	-3,938.60	3,211.24	2,140.88	1,989.33	151.55	14.127		
10,800.00	7,806.94	11,493.54	7,807.01	78.20	96.49	-90.00	-4,038.60	3,211.38	2,140.42	1,985.67	154.75	13.831		
10,900.00	7,806.94	11,593.55	7,807.01	79.80	97.70	-90.00	-4,138.60	3,211.53	2,139.97	1,982.00	157.97	13.546		
11,000.00	7,806.94	11,693.55	7,807.01	81.41	98.93	-90.00	-4,238.60	3,211.67	2,139.51	1,978.31	161.21	13.272		
11,100.00	7,806.93	11,793.55	7,807.01	83.02	100.18	-90.00	-4,338.61	3,211.82	2,139.06	1,974.61	164.45	13.007		
11,200.00	7,806.93	11,893.55	7,807.01	84.64	101.44	-90.00	-4,438.61	3,211.96	2,138.60	1,970.89	167.71	12.752		
11,300.00	7,806.93	11,993.55	7,807.01	86.27	102.72	-90.00	-4,538.61	3,212.10	2,138.15	1,967.17	170.98	12.505		
11,400.00	7,806.93	12,093.55	7,807.01	87.90	104.02	-90.00	-4,638.61	3,212.25	2,137.69	1,963.43	174.26	12.267		
11,500.00	7,806.92	12,193.55	7,807.01	89.54	105.33	-90.00	-4,738.61	3,212.39	2,137.23	1,959.68	177.55	12.037		
11,600.00	7,806.92	12,293.56	7,807.01	91.18	106.65	-90.00	-4,838.61	3,212.53	2,136.78	1,955.93	180.85	11.815		
11,700.00	7,806.92	12,393.56	7,807.01	92.83	108.00	-90.00	-4,938.61	3,212.68	2,136.32	1,952.16	184.16	11.601		
11,800.00	7,806.92	12,493.56	7,807.01	94.48	109.35	-90.00	-5,038.62	3,212.82	2,135.86	1,948.39	187.47	11.393		
11,900.00	7,806.91	12,593.56	7,807.01	96.14	110.72	-90.00	-5,138.62	3,212.96	2,135.41	1,944.61	190.80	11.192		
12,000.00	7,806.91	12,693.56	7,807.01	97.80	112.10	-90.00	-5,238.62	3,213.11	2,134.95	1,940.82	194.13	10.997		
12,100.00	7,806.91	12,793.56	7,807.01	99.46	113.49	-90.00	-5,338.62	3,213.25	2,134.49	1,937.02	197.47	10.809		
12,200.00	7,806.91	12,893.57	7,807.01	101.13	114.90	-90.00	-5,438.62	3,213.39	2,134.04	1,933.22	200.82	10.627		
12,300.00	7,806.90	12,993.57	7,807.01	102.80	116.31	-90.00	-5,538.62	3,213.53	2,133.58	1,929.40	204.17	10.450		
12,400.00	7,806.90	13,093.57	7,807.01	104.47	117.74	-90.00	-5,638.62	3,213.67	2,133.12	1,925.59	207.53	10.278		
12,500.00	7,806.90	13,193.57	7,807.01	106.15	119.18	-90.00	-5,738.63	3,213.82	2,132.66	1,921.76	210.90	10.112		
12,600.00	7,806.90	13,293.57	7,807.01	107.83	120.63	-90.00	-5,838.63	3,213.96	2,132.21	1,917.93	214.27	9.951		
12,700.00	7,806.89	13,393.57	7,807.01	109.52	122.09	-90.00	-5,938.63	3,214.10	2,131.75	1,914.10	217.65	9.794		
12,800.00	7,806.89	13,493.57	7,807.01	111.20	123.55	-90.00	-6,038.63	3,214.24	2,131.29	1,910.26	221.03	9.642		
12,900.00	7,806.89	13,593.58	7,807.01	112.89	125.03	-90.00	-6,138.63	3,214.38	2,130.83	1,906.41	224.42	9.495		
13,000.00	7,806.89	13,693.58	7,807.01	114.59	126.51	-90.00	-6,238.63	3,214.53	2,130.37	1,902.56	227.81	9.351		
13,100.00	7,806.88	13,793.58	7,807.01	116.28	128.01	-90.00	-6,338.63	3,214.67	2,129.92	1,898.71	231.21	9.212		
13,200.00	7,806.88	13,893.58	7,807.01	117.98	129.51	-90.00	-6,438.64	3,214.81	2,129.46	1,894.85	234.61	9.077		
13,300.00	7,806.88	13,993.58	7,807.01	119.68	131.02	-90.00	-6,538.64	3,214.95	2,129.00	1,890.98	238.02	8.945		
13,400.00	7,806.88	14,093.58	7,807.01	121.38	132.53	-90.00	-6,638.64	3,215.09	2,128.54	1,887.11	241.43	8.817		
13,500.00	7,806.88	14,193.58	7,807.01	123.08	134.05	-90.00	-6,738.64	3,215.23	2,128.08	1,883.24	244.84	8.692		
13,600.00	7,806.87	14,293.59	7,807.01	124.79	135.58	-90.00	-6,838.64	3,215.37	2,127.62	1,879.37	248.26	8.570		
13,700.00	7,806.87	14,393.59	7,807.01	126.49	137.12	-90.00	-6,938.64	3,215.51	2,127.16	1,875.49	251.68	8.452		
13,800.00	7,806.87	14,493.59	7,807.01	128.20	138.66	-90.00	-7,038.64	3,215.65	2,126.70	1,871.60	255.10	8.337		
13,900.00	7,806.87	14,593.59	7,807.01	129.91	140.21	-90.00	-7,138.65	3,215.79	2,126.24	1,867.72	258.53	8.224		
14,000.00	7,806.86	14,693.59	7,807.01	131.62	141.77	-90.00	-7,238.65	3,215.93	2,125.79	1,863.83	261.96	8.115		
14,100.00	7,806.86	14,793.59	7,807.01	133.34	143.33	-90.00	-7,338.65	3,216.07	2,125.33	1,859.93	265.39	8.008		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,893.60	7,807.01	135.05	144.89	-90.00	-7,438.65	3,216.22	2,124.87	1,856.04	268.83	7.904		
14,300.00	7,806.86	14,993.60	7,807.01	136.77	146.46	-90.00	-7,538.65	3,216.36	2,124.41	1,852.14	272.27	7.803		
14,400.00	7,806.85	15,093.60	7,807.01	138.49	148.04	-90.00	-7,638.65	3,216.49	2,123.95	1,848.24	275.71	7.704		
14,500.00	7,806.85	15,193.60	7,807.01	140.21	149.62	-90.00	-7,738.65	3,216.63	2,123.49	1,844.33	279.15	7.607		
14,600.00	7,806.85	15,293.60	7,807.01	141.93	151.21	-90.00	-7,838.66	3,216.77	2,123.03	1,840.43	282.60	7.512		
14,700.00	7,806.85	15,393.60	7,807.01	143.65	152.80	-90.00	-7,938.66	3,216.91	2,122.57	1,836.52	286.05	7.420		
14,800.00	7,806.84	15,493.60	7,807.01	145.37	154.39	-90.00	-8,038.66	3,217.05	2,122.11	1,832.61	289.50	7.330		
14,900.00	7,806.84	15,593.61	7,807.01	147.10	155.99	-90.00	-8,138.66	3,217.19	2,121.65	1,828.69	292.95	7.242		
15,000.00	7,806.84	15,693.61	7,807.01	148.83	157.59	-90.00	-8,238.66	3,217.33	2,121.19	1,824.78	296.41	7.156		
15,100.00	7,806.84	15,793.61	7,807.01	150.55	159.20	-90.00	-8,338.66	3,217.47	2,120.73	1,820.86	299.87	7.072		
15,200.00	7,806.83	15,893.61	7,807.01	152.28	160.81	-90.00	-8,438.66	3,217.61	2,120.26	1,816.94	303.33	6.990		
15,300.00	7,806.83	15,993.61	7,807.01	154.01	162.43	-90.00	-8,538.66	3,217.75	2,119.80	1,813.02	306.79	6.910		
15,400.00	7,806.83	16,093.61	7,807.01	155.74	164.04	-90.00	-8,638.67	3,217.89	2,119.34	1,809.09	310.25	6.831		
15,500.00	7,806.83	16,193.61	7,807.01	157.47	165.67	-90.00	-8,738.67	3,218.03	2,118.88	1,805.16	313.72	6.754		
15,600.00	7,806.82	16,293.62	7,807.01	159.20	167.29	-90.00	-8,838.67	3,218.16	2,118.42	1,801.24	317.18	6.679		
15,700.00	7,806.82	16,393.62	7,807.01	160.93	168.92	-90.00	-8,938.67	3,218.30	2,117.96	1,797.31	320.65	6.605		
15,800.00	7,806.82	16,493.62	7,807.01	162.67	170.55	-90.01	-9,038.67	3,218.44	2,117.50	1,793.37	324.12	6.533		
15,900.00	7,806.82	16,593.62	7,807.01	164.40	172.18	-90.01	-9,138.67	3,218.58	2,117.04	1,789.44	327.60	6.462		
16,000.00	7,806.81	16,693.62	7,807.01	166.14	173.82	-90.01	-9,238.67	3,218.72	2,116.57	1,785.50	331.07	6.393		
16,100.00	7,806.81	16,793.62	7,807.01	167.87	175.46	-90.01	-9,338.68	3,218.85	2,116.11	1,781.57	334.54	6.325		
16,200.00	7,806.81	16,893.62	7,807.00	169.61	177.11	-90.01	-9,438.68	3,218.99	2,115.65	1,777.63	338.02	6.259		
16,300.00	7,806.81	16,993.63	7,807.00	171.35	178.75	-90.01	-9,538.68	3,219.13	2,115.19	1,773.69	341.50	6.194		
16,400.00	7,806.81	17,093.63	7,807.00	173.09	180.40	-90.01	-9,638.68	3,219.27	2,114.73	1,769.75	344.98	6.130		
16,500.00	7,806.80	17,193.63	7,807.00	174.83	182.05	-90.01	-9,738.68	3,219.40	2,114.26	1,765.81	348.46	6.067		
16,600.00	7,806.80	17,293.63	7,807.00	176.57	183.70	-90.01	-9,838.68	3,219.54	2,113.80	1,761.86	351.94	6.006		
16,700.00	7,806.80	17,393.63	7,807.00	178.31	185.36	-90.01	-9,938.68	3,219.68	2,113.34	1,757.92	355.42	5.946		
16,800.00	7,806.80	17,493.63	7,807.00	180.05	187.02	-90.01	-10,038.69	3,219.82	2,112.88	1,753.97	358.91	5.887		
16,900.00	7,806.79	17,593.64	7,807.00	181.79	188.68	-90.01	-10,138.69	3,219.95	2,112.41	1,750.02	362.39	5.829		
17,000.00	7,806.79	17,693.64	7,807.00	183.53	190.34	-90.01	-10,238.69	3,220.09	2,111.95	1,746.07	365.88	5.772		
17,100.00	7,806.79	17,793.64	7,807.00	185.27	192.00	-90.01	-10,338.69	3,220.23	2,111.49	1,742.12	369.37	5.716		
17,200.00	7,806.79	17,893.64	7,807.00	187.02	193.67	-90.01	-10,438.69	3,220.36	2,111.02	1,738.17	372.86	5.662		
17,300.00	7,806.78	17,993.64	7,807.00	188.76	195.34	-90.01	-10,538.69	3,220.50	2,110.56	1,734.21	376.35	5.608		
17,400.00	7,806.78	18,093.64	7,807.00	190.51	197.01	-90.01	-10,638.69	3,220.63	2,110.10	1,730.26	379.84	5.555		
17,500.00	7,806.78	18,193.64	7,807.00	192.25	198.68	-90.01	-10,738.70	3,220.77	2,109.63	1,726.31	383.33	5.503		
17,600.00	7,806.78	18,293.65	7,807.00	194.00	200.36	-90.01	-10,838.70	3,220.91	2,109.17	1,722.35	386.82	5.453		
17,700.00	7,806.77	18,393.65	7,807.00	195.74	202.03	-90.01	-10,938.70	3,221.04	2,108.71	1,718.39	390.31	5.403		
17,800.00	7,806.77	18,493.65	7,807.00	197.49	203.71	-90.01	-11,038.70	3,221.18	2,108.24	1,714.43	393.81	5.353		
17,900.00	7,806.77	18,593.65	7,807.00	199.24	205.39	-90.01	-11,138.70	3,221.31	2,107.78	1,710.47	397.30	5.305		
17,973.82	7,807.00	18,667.47	7,807.00	200.53	206.61	-90.00	-11,212.52	3,221.41	2,107.59	1,707.86	399.73	5.273		
17,974.53	7,807.00	18,668.18	7,807.00	200.55	206.62	-90.00	-11,213.23	3,221.42	2,107.59	1,707.83	399.75	5.272 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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 CC, ES		
500.00	500.00	495.35	495.33	1.57	1.54	90.49	-1.24	145.48	145.56	142.45	3.11	46.785		
600.00	600.00	590.49	590.35	1.93	1.87	90.97	-2.55	150.04	150.37	146.57	3.80	39.597		
700.00	700.00	685.21	684.74	2.29	2.21	91.71	-4.71	157.59	158.40	153.91	4.48	35.329		
800.00	800.00	779.31	778.20	2.64	2.57	92.63	-7.72	168.06	169.64	164.47	5.17	32.833		
900.00	900.00	872.59	870.45	3.00	2.94	93.64	-11.53	181.34	184.09	178.25	5.84	31.496		
1,000.00	1,000.00	964.88	961.22	3.36	3.33	94.67	-16.11	197.31	201.73	195.22	6.52	30.959		
1,100.00	1,100.00	1,055.99	1,050.27	3.72	3.74	95.67	-21.43	215.83	222.52	215.34	7.18	30.996		
1,200.00	1,199.98	1,146.12	1,137.71	4.06	4.19	-36.53	-27.45	236.82	245.05	237.24	7.81	31.364		
1,300.00	1,299.84	1,235.56	1,223.77	4.40	4.66	-35.98	-34.18	260.25	267.88	259.45	8.43	31.776		
1,400.00	1,399.45	1,324.32	1,308.36	4.74	5.16	-35.77	-41.58	286.04	290.95	281.90	9.05	32.146		
1,500.00	1,498.70	1,412.37	1,391.43	5.09	5.71	-35.81	-49.64	314.11	314.24	304.57	9.68	32.474		
1,600.00	1,597.47	1,499.72	1,472.91	5.46	6.29	-36.05	-58.32	344.36	337.74	327.43	10.31	32.755		
1,700.00	1,695.62	1,586.37	1,552.75	5.85	6.92	-36.44	-67.60	376.72	361.44	350.48	10.96	32.978		
1,800.00	1,793.06	1,672.31	1,630.89	6.27	7.59	-36.95	-77.47	411.09	385.35	373.72	11.63	33.138		
1,867.07	1,857.94	1,729.55	1,682.34	6.57	8.06	-37.34	-84.39	435.22	401.52	389.43	12.09	33.210		
1,900.00	1,889.69	1,757.52	1,707.28	6.72	8.30	-37.63	-87.88	447.37	409.64	397.32	12.32	33.246		
2,000.00	1,986.13	1,841.63	1,781.55	7.19	9.06	-38.40	-98.77	485.32	436.22	423.18	13.04	33.460		
2,100.00	2,082.57	1,924.43	1,853.50	7.68	9.85	-39.00	-110.07	524.70	465.59	451.83	13.76	33.834		
2,200.00	2,179.00	2,005.81	1,923.03	8.18	10.67	-39.46	-121.74	565.34	497.65	483.16	14.49	34.349		
2,300.00	2,275.44	2,085.68	1,990.07	8.69	11.53	-39.79	-133.71	607.05	532.30	517.08	15.22	34.982		
2,400.00	2,371.88	2,163.96	2,054.59	9.21	12.43	-40.03	-145.94	649.67	569.45	553.51	15.94	35.722		
2,500.00	2,468.31	2,249.76	2,124.18	9.74	13.45	-40.20	-159.78	697.91	608.62	591.82	16.80	36.233		
2,600.00	2,564.75	2,341.67	2,198.61	10.28	14.56	-40.36	-174.66	749.73	647.99	630.23	17.76	36.483		
2,700.00	2,661.19	2,433.57	2,273.05	10.82	15.68	-40.50	-189.53	801.55	687.37	668.63	18.74	36.685		
2,800.00	2,757.62	2,525.48	2,347.48	11.37	16.82	-40.63	-204.40	853.37	726.75	707.03	19.72	36.848		
2,900.00	2,854.06	2,617.39	2,421.92	11.92	17.96	-40.74	-219.27	905.19	766.13	745.41	20.72	36.980		
3,000.00	2,950.50	2,709.30	2,496.35	12.47	19.11	-40.84	-234.15	957.02	805.52	783.80	21.72	37.088		
3,100.00	3,046.93	2,801.21	2,570.78	13.03	20.26	-40.94	-249.02	1,008.84	844.90	822.18	22.73	37.176		
3,200.00	3,143.37	2,906.88	2,645.22	13.59	21.59	-41.02	-263.89	1,060.66	884.29	860.47	23.83	37.114		
3,300.00	3,239.81	2,985.03	2,719.65	14.15	22.58	-41.10	-278.77	1,112.48	923.68	898.92	24.76	37.304		
3,400.00	3,336.24	3,076.93	2,794.09	14.72	23.74	-41.17	-293.64	1,164.30	963.07	937.29	25.78	37.351		
3,500.00	3,432.68	3,168.84	2,868.52	15.28	24.91	-41.23	-308.51	1,216.13	1,002.47	975.66	26.81	37.389		
3,600.00	3,529.12	3,260.75	2,942.95	15.85	26.08	-41.29	-323.38	1,267.95	1,041.86	1,014.02	27.84	37.420		
3,700.00	3,625.55	3,352.66	3,017.39	16.42	27.25	-41.35	-338.26	1,319.77	1,081.26	1,052.38	28.88	37.444		
3,800.00	3,721.99	3,444.57	3,091.82	16.99	28.43	-41.40	-353.13	1,371.59	1,120.65	1,090.74	29.91	37.463		
3,900.00	3,818.43	3,536.48	3,166.26	17.56	29.60	-41.45	-368.00	1,423.41	1,160.05	1,129.09	30.95	37.477		
4,000.00	3,914.86	3,628.38	3,240.69	18.14	30.78	-41.50	-382.87	1,475.24	1,199.44	1,167.45	32.00	37.488		
4,100.00	4,011.30	3,720.29	3,315.13	18.71	31.95	-41.54	-397.75	1,527.06	1,238.84	1,205.80	33.04	37.496		
4,200.00	4,107.74	3,812.20	3,389.56	19.29	33.13	-41.58	-412.62	1,578.88	1,278.24	1,244.15	34.09	37.501		
4,300.00	4,204.17	3,904.11	3,463.99	19.86	34.31	-41.62	-427.49	1,630.70	1,317.64	1,282.51	35.13	37.504		
4,400.00	4,300.61	4,003.98	3,538.43	20.44	35.60	-41.65	-442.37	1,682.52	1,357.04	1,320.80	36.23	37.452		
4,500.00	4,397.05	4,087.93	3,612.86	21.02	36.67	-41.68	-457.24	1,734.35	1,396.44	1,359.20	37.23	37.504		
4,600.00	4,493.48	4,179.83	3,687.30	21.59	37.86	-41.72	-472.11	1,786.17	1,435.84	1,397.55	38.29	37.502		
4,700.00	4,589.92	4,271.74	3,761.73	22.17	39.04	-41.75	-486.98	1,837.99	1,475.24	1,435.90	39.34	37.499		
4,800.00	4,686.36	4,363.65	3,836.16	22.75	40.22	-41.77	-501.86	1,889.81	1,514.64	1,474.24	40.40	37.495		
4,900.00	4,782.79	4,455.56	3,910.60	23.33	41.41	-41.80	-516.73	1,941.63	1,554.04	1,512.59	41.45	37.490		
5,000.00	4,879.23	4,547.47	3,985.03	23.91	42.59	-41.83	-531.60	1,993.46	1,593.44	1,550.93	42.51	37.485		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,639.38	4,059.47	24.49	43.77	-41.85	-546.47	2,045.28	1,632.84	1,589.27	43.57	37.478		
5,200.00	5,072.10	4,731.28	4,133.90	25.07	44.96	-41.87	-561.35	2,097.10	1,672.24	1,627.61	44.63	37.472		
5,300.00	5,168.54	4,823.19	4,208.33	25.66	46.15	-41.89	-576.22	2,148.92	1,711.64	1,665.96	45.69	37.465		
5,400.00	5,264.98	4,915.10	4,282.77	26.24	47.33	-41.92	-591.09	2,200.74	1,751.04	1,704.30	46.75	37.457		
5,500.00	5,361.41	5,007.01	4,357.20	26.82	48.52	-41.94	-605.97	2,252.57	1,790.45	1,742.64	47.81	37.450		
5,600.00	5,457.85	5,101.08	4,431.64	27.40	49.73	-41.96	-620.84	2,304.39	1,829.85	1,780.96	48.89	37.431		
5,700.00	5,554.29	5,209.17	4,506.07	27.99	51.13	-41.97	-635.71	2,356.21	1,869.25	1,819.20	50.05	37.345		
5,800.00	5,650.72	5,282.73	4,580.51	28.57	52.08	-41.99	-650.58	2,408.03	1,908.65	1,857.65	51.00	37.425		
5,900.00	5,747.16	5,374.64	4,654.94	29.15	53.27	-42.01	-665.46	2,459.85	1,948.06	1,895.99	52.06	37.417		
6,000.00	5,843.60	5,466.55	4,729.37	29.74	54.45	-42.02	-680.33	2,511.68	1,987.46	1,934.33	53.13	37.408		
6,100.00	5,940.03	5,558.46	4,803.81	30.32	55.64	-42.04	-695.20	2,563.50	2,026.86	1,972.67	54.19	37.400		
6,200.00	6,036.47	5,650.37	4,878.24	30.90	56.83	-42.06	-710.07	2,615.32	2,066.27	2,011.00	55.26	37.391		
6,300.00	6,132.91	5,742.28	4,952.68	31.49	58.02	-42.07	-724.95	2,667.14	2,105.67	2,049.34	56.33	37.382		
6,400.00	6,229.34	5,834.19	5,027.11	32.07	59.21	-42.08	-739.82	2,718.96	2,145.07	2,087.68	57.40	37.374		
6,500.00	6,325.78	5,926.09	5,101.54	32.66	60.40	-42.10	-754.69	2,770.79	2,184.48	2,126.01	58.46	37.365		
6,552.14	6,376.06	5,974.02	5,140.36	32.96	61.02	-42.10	-762.45	2,797.81	2,205.02	2,146.00	59.02	37.360		
6,600.00	6,422.32	6,017.88	5,175.88	33.24	61.58	-42.38	-769.55	2,822.54	2,224.15	2,164.63	59.52	37.366		
6,700.00	6,519.60	6,108.75	5,249.47	33.78	62.76	-42.95	-784.25	2,873.77	2,265.86	2,205.34	60.52	37.438		
6,800.00	6,617.63	6,201.56	5,322.11	34.27	63.96	-43.51	-798.76	2,924.34	2,309.88	2,248.41	61.47	37.577		
6,900.00	6,716.28	6,286.85	5,393.71	34.72	65.06	-44.06	-813.07	2,974.19	2,356.17	2,293.87	62.30	37.817		
7,000.00	6,815.45	6,427.97	5,508.46	35.13	66.86	-44.45	-835.73	3,053.15	2,404.55	2,340.84	63.71	37.744		
7,100.00	6,915.00	6,908.78	5,925.36	35.49	71.98	-43.99	-901.49	3,282.29	2,446.33	2,378.35	67.98	35.988		
7,200.00	7,014.82	7,453.50	6,438.04	35.81	75.71	-43.64	-951.60	3,456.87	2,474.44	2,403.85	70.59	35.056		
7,300.00	7,114.79	7,300.00	6,942.94	36.09	76.06	-43.50	-973.40	3,532.85	2,486.24	2,416.97	69.26	35.896		
7,319.21	7,134.00	8,156.50	7,134.00	36.14	77.80	89.71	-975.27	3,539.36	2,486.74	2,416.28	70.46	35.292		
7,400.00	7,214.79	8,237.29	7,214.79	36.33	77.90	89.71	-975.27	3,539.36	2,486.74	2,415.91	70.83	35.108		
7,419.21	7,234.00	8,256.50	7,234.00	36.37	77.92	89.71	-975.27	3,539.36	2,486.74	2,415.83	70.92	35.065		
7,423.54	7,238.32	8,260.82	7,238.32	36.39	77.92	-89.95	-975.27	3,539.36	2,486.74	2,415.80	70.94	35.054		
7,450.00	7,264.77	8,287.16	7,264.65	36.46	77.96	-89.95	-976.09	3,539.37	2,486.74	2,415.67	71.08	34.986		
7,500.00	7,314.52	8,336.95	7,314.19	36.62	78.03	-89.95	-980.91	3,539.40	2,486.74	2,415.35	71.39	34.831		
7,550.00	7,363.66	8,386.75	7,363.13	36.81	78.11	-89.95	-990.01	3,539.43	2,486.75	2,414.97	71.78	34.645		
7,600.00	7,411.80	8,436.55	7,411.10	37.03	78.21	-89.95	-1,003.33	3,539.53	2,486.75	2,414.52	72.23	34.430		
7,650.00	7,458.60	8,486.36	7,457.74	37.29	78.32	-89.95	-1,020.76	3,539.64	2,486.75	2,414.01	72.74	34.188		
7,700.00	7,503.68	8,536.17	7,502.70	37.57	78.45	-89.96	-1,042.18	3,539.77	2,486.75	2,413.44	73.31	33.920		
7,750.00	7,546.72	8,585.99	7,545.63	37.89	78.59	-89.96	-1,067.42	3,539.92	2,486.75	2,412.80	73.95	33.628		
7,800.00	7,587.37	8,635.82	7,586.22	38.23	78.74	-89.96	-1,096.31	3,540.10	2,486.75	2,412.11	74.65	33.313		
7,850.00	7,625.34	8,685.66	7,624.15	38.59	78.90	-89.96	-1,128.61	3,540.29	2,486.76	2,411.35	75.40	32.979		
7,900.00	7,660.33	8,735.52	7,659.14	38.99	79.07	-89.97	-1,164.10	3,540.51	2,486.76	2,410.54	76.22	32.627		
7,950.00	7,692.07	8,785.39	7,690.92	39.40	79.26	-89.97	-1,202.51	3,540.74	2,486.76	2,409.68	77.08	32.261		
8,000.00	7,720.33	8,835.27	7,719.26	39.85	79.45	-89.97	-1,243.54	3,540.99	2,486.77	2,408.77	78.00	31.882		
8,050.00	7,744.88	8,885.17	7,743.92	40.31	79.66	-89.98	-1,286.90	3,541.26	2,486.77	2,407.81	78.96	31.493		
8,100.00	7,765.55	8,935.08	7,764.72	40.79	79.88	-89.98	-1,332.25	3,541.53	2,486.77	2,406.81	79.96	31.098		
8,150.00	7,782.18	8,985.01	7,781.51	41.30	80.10	-89.99	-1,379.26	3,541.82	2,486.78	2,405.78	81.00	30.700		
8,200.00	7,794.63	9,034.96	7,794.14	41.81	80.34	-89.99	-1,427.57	3,542.11	2,486.78	2,404.72	82.07	30.302		
8,250.00	7,802.82	9,084.92	7,802.53	42.34	80.58	-89.99	-1,476.81	3,542.41	2,486.79	2,403.64	83.15	29.907		
8,300.00	7,806.68	9,134.90	7,806.59	42.88	80.83	-90.00	-1,526.61	3,542.72	2,486.79	2,402.54	84.25	29.518		
8,319.29	7,807.00	9,158.95	7,807.00	43.09	80.95	-90.00	-1,545.89	3,542.83	2,486.79	2,402.07	84.72	29.353		
8,400.00	7,807.00	9,234.90	7,807.00	43.98	81.34	-90.00	-1,626.60	3,543.32	2,486.80	2,400.31	86.49	28.754		
8,500.00	7,807.00	9,334.90	7,807.00	45.12	81.88	-90.00	-1,726.60	3,543.93	2,486.81	2,398.00	88.81	28.002		
8,600.00	7,806.99	9,434.90	7,807.00	46.31	82.45	-90.00	-1,826.59	3,544.54	2,486.82	2,395.61	91.21	27.266		
8,700.00	7,806.99	9,534.90	7,806.99	47.53	83.04	-90.00	-1,926.59	3,545.15	2,486.83	2,393.15	93.68	26.546		
8,800.00	7,806.99	9,634.90	7,806.99	48.78	83.66	-90.00	-2,026.59	3,545.76	2,486.84	2,390.62	96.22	25.846		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,734.90	7,806.99	50.07	84.31	-90.00	-2,126.59	3,546.37	2,486.85	2,388.03	98.82	25.166		
9,000.00	7,806.98	9,834.90	7,806.99	51.38	84.98	-90.00	-2,226.59	3,546.98	2,486.85	2,385.38	101.47	24.507		
9,100.00	7,806.98	9,934.90	7,806.99	52.72	85.68	-90.00	-2,326.58	3,547.58	2,486.86	2,382.68	104.18	23.870		
9,200.00	7,806.98	10,034.90	7,806.99	54.09	86.40	-90.00	-2,426.58	3,548.19	2,486.87	2,379.93	106.94	23.254		
9,300.00	7,806.98	10,134.90	7,806.99	55.48	87.16	-90.00	-2,526.58	3,548.80	2,486.88	2,377.13	109.75	22.660		
9,400.00	7,806.97	10,234.90	7,806.98	56.89	87.93	-90.00	-2,626.58	3,549.41	2,486.89	2,374.30	112.59	22.088		
9,500.00	7,806.97	10,334.90	7,806.98	58.32	88.74	-90.00	-2,726.58	3,550.02	2,486.90	2,371.42	115.47	21.536		
9,600.00	7,806.97	10,434.90	7,806.98	59.77	89.57	-90.00	-2,826.58	3,550.63	2,486.91	2,368.51	118.39	21.005		
9,700.00	7,806.97	10,534.90	7,806.98	61.23	90.42	-90.00	-2,926.57	3,551.24	2,486.92	2,365.57	121.35	20.494		
9,800.00	7,806.96	10,634.90	7,806.98	62.71	91.30	-90.00	-3,026.57	3,551.84	2,486.92	2,362.60	124.33	20.003		
9,900.00	7,806.96	10,734.90	7,806.98	64.21	92.21	-90.00	-3,126.57	3,552.45	2,486.93	2,359.59	127.34	19.530		
10,000.00	7,806.96	10,834.90	7,806.98	65.72	93.14	-90.00	-3,226.57	3,553.06	2,486.94	2,356.56	130.38	19.074		
10,100.00	7,806.96	10,934.90	7,806.97	67.24	94.09	-90.00	-3,326.57	3,553.67	2,486.95	2,353.51	133.44	18.637		
10,200.00	7,806.95	11,034.90	7,806.97	68.78	95.07	-90.00	-3,426.56	3,554.28	2,486.96	2,350.43	136.53	18.215		
10,300.00	7,806.95	11,134.90	7,806.97	70.32	96.07	-90.00	-3,526.56	3,554.89	2,486.97	2,347.33	139.64	17.810		
10,400.00	7,806.95	11,234.90	7,806.97	71.88	97.09	-90.00	-3,626.56	3,555.50	2,486.98	2,344.21	142.77	17.420		
10,500.00	7,806.95	11,334.90	7,806.97	73.45	98.14	-90.00	-3,726.56	3,556.10	2,486.99	2,341.07	145.92	17.044		
10,600.00	7,806.95	11,434.90	7,806.97	75.02	99.21	-90.00	-3,826.56	3,556.71	2,487.00	2,337.91	149.08	16.682		
10,700.00	7,806.94	11,534.90	7,806.97	76.61	100.30	-90.00	-3,926.55	3,557.32	2,487.00	2,334.74	152.26	16.333		
10,800.00	7,806.94	11,634.90	7,806.96	78.20	101.41	-90.00	-4,026.55	3,557.93	2,487.01	2,331.55	155.46	15.997		
10,900.00	7,806.94	11,734.90	7,806.96	79.80	102.54	-90.00	-4,126.55	3,558.54	2,487.02	2,328.35	158.68	15.674		
11,000.00	7,806.94	11,834.90	7,806.96	81.41	103.69	-90.00	-4,226.55	3,559.15	2,487.03	2,325.13	161.90	15.361		
11,100.00	7,806.93	11,934.90	7,806.96	83.02	104.85	-90.00	-4,326.55	3,559.76	2,487.04	2,321.90	165.14	15.060		
11,200.00	7,806.93	12,034.90	7,806.96	84.64	106.04	-90.00	-4,426.55	3,560.36	2,487.05	2,318.65	168.39	14.769		
11,300.00	7,806.93	12,134.90	7,806.96	86.27	107.25	-90.00	-4,526.54	3,560.97	2,487.06	2,315.40	171.66	14.488		
11,400.00	7,806.93	12,234.90	7,806.96	87.90	108.47	-90.00	-4,626.54	3,561.58	2,487.07	2,312.13	174.93	14.217		
11,500.00	7,806.92	12,334.90	7,806.95	89.54	109.71	-90.00	-4,726.54	3,562.19	2,487.08	2,308.86	178.22	13.955		
11,600.00	7,806.92	12,434.90	7,806.95	91.18	110.97	-90.00	-4,826.54	3,562.80	2,487.08	2,305.57	181.51	13.702		
11,700.00	7,806.92	12,534.90	7,806.95	92.83	112.24	-90.00	-4,926.54	3,563.41	2,487.09	2,302.28	184.82	13.457		
11,800.00	7,806.92	12,634.90	7,806.95	94.48	113.52	-90.00	-5,026.53	3,564.01	2,487.10	2,298.97	188.13	13.220		
11,900.00	7,806.91	12,734.90	7,806.95	96.14	114.83	-90.00	-5,126.53	3,564.62	2,487.11	2,295.66	191.45	12.991		
12,000.00	7,806.91	12,834.90	7,806.95	97.80	116.14	-90.00	-5,226.53	3,565.23	2,487.12	2,292.34	194.78	12.769		
12,100.00	7,806.91	12,934.90	7,806.95	99.46	117.47	-90.00	-5,326.53	3,565.84	2,487.13	2,289.01	198.12	12.554		
12,200.00	7,806.91	13,034.90	7,806.94	101.13	118.81	-90.00	-5,426.53	3,566.45	2,487.14	2,285.68	201.46	12.346		
12,300.00	7,806.90	13,134.90	7,806.94	102.80	120.17	-90.00	-5,526.53	3,567.06	2,487.15	2,282.34	204.81	12.144		
12,400.00	7,806.90	13,234.90	7,806.94	104.47	121.54	-90.00	-5,626.52	3,567.67	2,487.16	2,278.99	208.17	11.948		
12,500.00	7,806.90	13,334.90	7,806.94	106.15	122.92	-90.00	-5,726.52	3,568.27	2,487.16	2,275.63	211.53	11.758		
12,600.00	7,806.90	13,434.90	7,806.94	107.83	124.31	-90.00	-5,826.52	3,568.88	2,487.17	2,272.27	214.90	11.574		
12,700.00	7,806.89	13,534.90	7,806.94	109.52	125.71	-90.00	-5,926.52	3,569.49	2,487.18	2,268.91	218.27	11.395		
12,800.00	7,806.89	13,634.90	7,806.94	111.20	127.13	-90.00	-6,026.52	3,570.10	2,487.19	2,265.54	221.65	11.221		
12,900.00	7,806.89	13,734.90	7,806.93	112.89	128.55	-90.00	-6,126.51	3,570.71	2,487.20	2,262.16	225.04	11.052		
13,000.00	7,806.89	13,834.90	7,806.93	114.59	129.98	-90.00	-6,226.51	3,571.32	2,487.21	2,258.78	228.43	10.888		
13,100.00	7,806.88	13,934.90	7,806.93	116.28	131.43	-90.00	-6,326.51	3,571.93	2,487.22	2,255.39	231.82	10.729		
13,200.00	7,806.88	14,034.90	7,806.93	117.98	132.88	-90.00	-6,426.51	3,572.53	2,487.23	2,252.00	235.22	10.574		
13,300.00	7,806.88	14,134.90	7,806.93	119.68	134.34	-90.00	-6,526.51	3,573.14	2,487.24	2,248.61	238.63	10.423		
13,400.00	7,806.88	14,234.90	7,806.93	121.38	135.81	-90.00	-6,626.51	3,573.75	2,487.24	2,245.21	242.03	10.276		
13,500.00	7,806.88	14,334.90	7,806.93	123.08	137.29	-90.00	-6,726.50	3,574.36	2,487.25	2,241.81	245.44	10.134		
13,600.00	7,806.87	14,434.90	7,806.92	124.79	138.77	-90.00	-6,826.50	3,574.97	2,487.26	2,238.40	248.86	9.995		
13,700.00	7,806.87	14,534.90	7,806.92	126.49	140.27	-90.00	-6,926.50	3,575.58	2,487.27	2,234.99	252.28	9.859		
13,800.00	7,806.87	14,634.90	7,806.92	128.20	141.77	-90.00	-7,026.50	3,576.19	2,487.28	2,231.58	255.70	9.727		
13,900.00	7,806.87	14,734.90	7,806.92	129.91	143.28	-90.00	-7,126.50	3,576.79	2,487.29	2,228.16	259.13	9.599		
14,000.00	7,806.86	14,834.90	7,806.92	131.62	144.79	-90.00	-7,226.49	3,577.40	2,487.30	2,224.74	262.55	9.473		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,934.90	7,806.92	133.34	146.31	-90.00	-7,326.49	3,578.01	2,487.31	2,221.32	265.99	9.351		
14,200.00	7,806.86	15,034.90	7,806.92	135.05	147.84	-90.00	-7,426.49	3,578.62	2,487.31	2,217.89	269.42	9.232		
14,300.00	7,806.86	15,134.90	7,806.91	136.77	149.38	-90.00	-7,526.49	3,579.23	2,487.32	2,214.46	272.86	9.116		
14,400.00	7,806.85	15,234.90	7,806.91	138.49	150.92	-90.00	-7,626.49	3,579.84	2,487.33	2,211.03	276.30	9.002		
14,500.00	7,806.85	15,334.90	7,806.91	140.21	152.46	-90.00	-7,726.48	3,580.44	2,487.34	2,207.60	279.74	8.892		
14,600.00	7,806.85	15,434.90	7,806.91	141.93	154.02	-90.00	-7,826.48	3,581.05	2,487.35	2,204.16	283.19	8.783		
14,700.00	7,806.85	15,534.90	7,806.91	143.65	155.57	-90.00	-7,926.48	3,581.66	2,487.36	2,200.72	286.64	8.678		
14,800.00	7,806.84	15,634.90	7,806.91	145.37	157.14	-90.00	-8,026.48	3,582.27	2,487.37	2,197.28	290.09	8.575		
14,900.00	7,806.84	15,734.90	7,806.91	147.10	158.70	-90.00	-8,126.48	3,582.88	2,487.38	2,193.84	293.54	8.474		
15,000.00	7,806.84	15,834.90	7,806.90	148.83	160.28	-90.00	-8,226.48	3,583.49	2,487.39	2,190.39	296.99	8.375		
15,100.00	7,806.84	15,934.90	7,806.90	150.55	161.85	-90.00	-8,326.47	3,584.10	2,487.39	2,186.94	300.45	8.279		
15,200.00	7,806.83	16,034.90	7,806.90	152.28	163.44	-90.00	-8,426.47	3,584.70	2,487.40	2,183.49	303.91	8.185		
15,300.00	7,806.83	16,134.90	7,806.90	154.01	165.02	-90.00	-8,526.47	3,585.31	2,487.41	2,180.04	307.37	8.093		
15,400.00	7,806.83	16,234.90	7,806.90	155.74	166.61	-90.00	-8,626.47	3,585.92	2,487.42	2,176.59	310.83	8.002		
15,500.00	7,806.83	16,334.90	7,806.90	157.47	168.21	-90.00	-8,726.47	3,586.53	2,487.43	2,173.13	314.30	7.914		
15,600.00	7,806.82	16,434.90	7,806.89	159.20	169.81	-90.00	-8,826.46	3,587.14	2,487.44	2,169.67	317.76	7.828		
15,700.00	7,806.82	16,534.90	7,806.89	160.93	171.41	-90.00	-8,926.46	3,587.75	2,487.45	2,166.21	321.23	7.743		
15,800.00	7,806.82	16,634.90	7,806.89	162.67	173.02	-90.00	-9,026.46	3,588.36	2,487.46	2,162.75	324.70	7.661		
15,900.00	7,806.82	16,734.90	7,806.89	164.40	174.63	-90.00	-9,126.46	3,588.96	2,487.47	2,159.29	328.17	7.580		
16,000.00	7,806.81	16,834.90	7,806.89	166.14	176.24	-90.00	-9,226.46	3,589.57	2,487.47	2,155.83	331.65	7.500		
16,100.00	7,806.81	16,934.90	7,806.89	167.87	177.86	-90.00	-9,326.46	3,590.18	2,487.48	2,152.36	335.12	7.423		
16,200.00	7,806.81	17,034.90	7,806.89	169.61	179.48	-90.00	-9,426.45	3,590.79	2,487.49	2,148.89	338.60	7.346		
16,300.00	7,806.81	17,134.90	7,806.88	171.35	181.10	-90.00	-9,526.45	3,591.40	2,487.50	2,145.42	342.08	7.272		
16,400.00	7,806.81	17,234.90	7,806.88	173.09	182.73	-90.00	-9,626.45	3,592.01	2,487.51	2,141.95	345.56	7.199		
16,500.00	7,806.80	17,334.90	7,806.88	174.83	184.36	-90.00	-9,726.45	3,592.62	2,487.52	2,138.48	349.04	7.127		
16,600.00	7,806.80	17,434.90	7,806.88	176.57	185.99	-90.00	-9,826.45	3,593.22	2,487.53	2,135.01	352.52	7.056		
16,700.00	7,806.80	17,534.90	7,806.88	178.31	187.62	-90.00	-9,926.44	3,593.83	2,487.54	2,131.54	356.00	6.987		
16,800.00	7,806.80	17,634.90	7,806.88	180.05	189.26	-90.00	-10,026.44	3,594.44	2,487.55	2,128.06	359.49	6.920		
16,900.00	7,806.79	17,734.90	7,806.88	181.79	190.90	-90.00	-10,126.44	3,595.05	2,487.55	2,124.58	362.97	6.853		
17,000.00	7,806.79	17,834.90	7,806.87	183.53	192.55	-90.00	-10,226.44	3,595.66	2,487.56	2,121.11	366.46	6.788		
17,100.00	7,806.79	17,934.90	7,806.87	185.27	194.19	-90.00	-10,326.44	3,596.27	2,487.57	2,117.63	369.94	6.724		
17,200.00	7,806.79	18,034.90	7,806.87	187.02	195.84	-90.00	-10,426.43	3,596.88	2,487.58	2,114.15	373.43	6.661		
17,300.00	7,806.78	18,134.90	7,806.87	188.76	197.49	-90.00	-10,526.43	3,597.48	2,487.59	2,110.67	376.92	6.600		
17,400.00	7,806.78	18,234.90	7,806.87	190.51	199.15	-90.00	-10,626.43	3,598.09	2,487.60	2,107.18	380.41	6.539		
17,500.00	7,806.78	18,334.90	7,806.87	192.25	200.80	-90.00	-10,726.43	3,598.70	2,487.61	2,103.70	383.91	6.480		
17,600.00	7,806.78	18,434.90	7,806.87	194.00	202.46	-90.00	-10,826.43	3,599.31	2,487.62	2,100.22	387.40	6.421		
17,700.00	7,806.77	18,534.90	7,806.86	195.74	204.12	-90.00	-10,926.43	3,599.92	2,487.63	2,096.73	390.89	6.364		
17,800.00	7,806.77	18,634.90	7,806.86	197.49	205.78	-90.00	-11,026.42	3,600.53	2,487.63	2,093.25	394.39	6.308		
17,900.00	7,806.77	18,734.90	7,806.86	199.24	207.44	-90.00	-11,126.42	3,601.13	2,487.64	2,089.76	397.88	6.252		
17,973.82	7,807.00	18,811.43	7,806.91	200.53	208.72	-90.00	-11,202.95	3,601.59	2,487.79	2,087.36	400.43	6.213		
17,974.53	7,807.00	18,812.14	7,806.91	200.55	208.73	-90.00	-11,203.66	3,601.59	2,487.79	2,087.33	400.46	6.212 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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 CC, ES		
400.00	400.00	394.77	394.76	1.21	1.18	90.46	-1.30	163.47	163.56	161.16	2.39	68.317		
500.00	500.00	489.34	489.20	1.57	1.51	90.85	-2.49	168.00	168.37	165.28	3.08	54.619		
600.00	600.00	583.49	583.03	1.93	1.86	91.45	-4.45	175.51	176.38	172.61	3.77	46.768		
700.00	700.00	677.04	675.95	2.29	2.21	92.21	-7.18	185.92	187.61	183.15	4.46	42.080		
800.00	800.00	769.78	767.68	2.64	2.59	93.06	-10.63	199.13	202.02	196.88	5.14	39.298		
900.00	900.00	861.54	857.95	3.00	2.98	93.94	-14.79	215.02	219.59	213.78	5.82	37.752		
1,000.00	1,000.00	952.15	946.53	3.36	3.40	94.80	-19.62	233.45	240.30	233.81	6.49	37.054		
1,100.00	1,100.00	1,041.45	1,033.20	3.72	3.85	95.63	-25.06	254.26	264.08	256.93	7.15	36.945		
1,200.00	1,199.98	1,129.68	1,118.13	4.06	4.32	-36.67	-31.11	277.37	289.52	281.75	7.77	37.247		
1,300.00	1,299.84	1,217.17	1,201.58	4.40	4.82	-36.16	-37.76	302.78	315.21	306.83	8.39	37.579		
1,400.00	1,399.45	1,303.92	1,283.50	4.74	5.37	-35.93	-44.99	330.39	341.09	332.09	9.00	37.879		
1,500.00	1,498.70	1,389.93	1,363.82	5.09	5.95	-35.93	-52.77	360.12	367.13	357.51	9.63	38.133		
1,600.00	1,597.47	1,475.18	1,442.50	5.46	6.57	-36.11	-61.08	391.88	393.32	383.06	10.26	38.335		
1,700.00	1,695.62	1,559.69	1,519.49	5.85	7.24	-36.42	-69.91	425.59	419.66	408.75	10.91	38.480		
1,800.00	1,793.06	1,643.45	1,594.75	6.27	7.94	-36.83	-79.21	461.15	446.15	434.58	11.57	38.560		
1,867.07	1,857.94	1,699.21	1,644.24	6.57	8.43	-37.16	-85.72	486.00	464.01	451.98	12.03	38.580		
1,900.00	1,889.69	1,726.44	1,668.23	6.72	8.68	-37.43	-88.98	498.47	472.95	460.69	12.26	38.584		
2,000.00	1,986.13	1,808.27	1,739.55	7.19	9.46	-38.15	-99.13	537.26	501.96	488.99	12.97	38.710		
2,100.00	2,082.57	1,888.72	1,808.53	7.68	10.28	-38.73	-109.62	577.31	533.68	520.00	13.68	38.998		
2,200.00	2,179.00	1,967.72	1,875.11	8.18	11.14	-39.20	-120.38	618.45	568.02	553.61	14.41	39.427		
2,300.00	2,275.44	2,045.18	1,939.22	8.69	12.02	-39.56	-131.39	660.49	604.87	589.75	15.13	39.984		
2,400.00	2,371.88	2,125.26	2,000.52	9.21	12.96	-39.83	-142.52	703.03	644.15	628.29	15.86	40.608		
2,500.00	2,468.31	2,211.99	2,074.01	9.74	14.03	-40.10	-156.27	755.56	684.68	667.89	16.79	40.773		
2,600.00	2,564.75	2,303.37	2,147.50	10.28	15.17	-40.33	-170.02	808.09	725.22	707.46	17.76	40.830		
2,700.00	2,661.19	2,394.75	2,220.99	10.82	16.32	-40.54	-183.77	860.62	765.76	747.02	18.74	40.857		
2,800.00	2,757.62	2,486.12	2,294.49	11.37	17.48	-40.73	-197.52	913.15	806.32	786.59	19.73	40.861		
2,900.00	2,854.06	2,577.50	2,367.98	11.92	18.64	-40.90	-211.26	965.68	846.88	826.15	20.73	40.848		
3,000.00	2,950.50	2,668.88	2,441.47	12.47	19.81	-41.06	-225.01	1,018.21	887.45	865.71	21.74	40.822		
3,100.00	3,046.93	2,760.25	2,514.96	13.03	20.99	-41.20	-238.76	1,070.74	928.02	905.27	22.75	40.787		
3,200.00	3,143.37	2,851.63	2,588.46	13.59	22.16	-41.33	-252.51	1,123.27	968.60	944.82	23.77	40.746		
3,300.00	3,239.81	2,943.01	2,661.95	14.15	23.34	-41.45	-266.26	1,175.80	1,009.18	984.38	24.80	40.700		
3,400.00	3,336.24	3,034.38	2,735.44	14.72	24.52	-41.56	-280.01	1,228.34	1,049.76	1,023.93	25.82	40.650		
3,500.00	3,432.68	3,125.76	2,808.94	15.28	25.71	-41.66	-293.76	1,280.87	1,090.35	1,063.49	26.86	40.598		
3,600.00	3,529.12	3,217.14	2,882.43	15.85	26.89	-41.76	-307.51	1,333.40	1,130.93	1,103.04	27.89	40.545		
3,700.00	3,625.55	3,308.51	2,955.92	16.42	28.08	-41.84	-321.26	1,385.93	1,171.53	1,142.59	28.93	40.492		
3,800.00	3,721.99	3,400.11	3,029.41	16.99	29.27	-41.93	-335.01	1,438.46	1,212.12	1,182.14	29.98	40.436		
3,900.00	3,818.43	3,508.73	3,102.91	17.56	30.69	-42.00	-348.75	1,490.99	1,252.72	1,221.58	31.13	40.240		
4,000.00	3,914.86	3,582.64	3,176.40	18.14	31.65	-42.08	-362.50	1,543.52	1,293.31	1,261.25	32.07	40.330		
4,100.00	4,011.30	3,674.02	3,249.89	18.71	32.85	-42.14	-376.25	1,596.05	1,333.91	1,300.79	33.12	40.277		
4,200.00	4,107.74	3,765.40	3,323.39	19.29	34.04	-42.21	-390.00	1,648.58	1,374.51	1,340.34	34.17	40.226		
4,300.00	4,204.17	3,856.77	3,396.88	19.86	35.24	-42.27	-403.75	1,701.11	1,415.12	1,379.89	35.22	40.175		
4,400.00	4,300.61	3,948.15	3,470.37	20.44	36.43	-42.32	-417.50	1,753.64	1,455.72	1,419.44	36.28	40.125		
4,500.00	4,397.05	4,039.53	3,543.86	21.02	37.63	-42.38	-431.25	1,806.17	1,496.32	1,458.99	37.34	40.077		
4,600.00	4,493.48	4,130.90	3,617.36	21.59	38.83	-42.43	-445.00	1,858.70	1,536.93	1,498.53	38.40	40.029		
4,700.00	4,589.92	4,222.28	3,690.85	22.17	40.02	-42.48	-458.75	1,911.23	1,577.53	1,538.08	39.46	39.983		
4,800.00	4,686.36	4,313.66	3,764.34	22.75	41.22	-42.52	-472.49	1,963.77	1,618.14	1,577.62	40.52	39.938		
4,900.00	4,782.79	4,405.03	3,837.84	23.33	42.42	-42.57	-486.24	2,016.30	1,658.75	1,617.17	41.58	39.894		
5,000.00	4,879.23	4,503.59	3,911.33	23.91	43.71	-42.61	-499.99	2,068.83	1,699.36	1,656.67	42.69	39.808		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,587.79	3,984.82	24.49	44.82	-42.65	-513.74	2,121.36	1,739.97	1,696.26	43.71	39.809		
5,200.00	5,072.10	4,679.16	4,058.31	25.07	46.02	-42.68	-527.49	2,173.89	1,780.58	1,735.80	44.77	39.769		
5,300.00	5,168.54	4,770.54	4,131.81	25.66	47.22	-42.72	-541.24	2,226.42	1,821.19	1,775.35	45.84	39.729		
5,400.00	5,264.98	4,861.92	4,205.30	26.24	48.42	-42.75	-554.99	2,278.95	1,861.80	1,814.89	46.91	39.691		
5,500.00	5,361.41	4,953.29	4,278.79	26.82	49.62	-42.79	-568.74	2,331.48	1,902.41	1,854.44	47.98	39.653		
5,600.00	5,457.85	5,044.67	4,352.29	27.40	50.82	-42.82	-582.49	2,384.01	1,943.02	1,893.98	49.05	39.617		
5,700.00	5,554.29	5,136.05	4,425.78	27.99	52.02	-42.85	-596.23	2,436.54	1,983.64	1,933.52	50.12	39.581		
5,800.00	5,650.72	5,227.42	4,499.27	28.57	53.23	-42.88	-609.98	2,489.07	2,024.25	1,973.06	51.19	39.547		
5,900.00	5,747.16	5,318.80	4,572.76	29.15	54.43	-42.91	-623.73	2,541.60	2,064.86	2,012.61	52.26	39.513		
6,000.00	5,843.60	5,410.18	4,646.26	29.74	55.63	-42.93	-637.48	2,594.13	2,105.48	2,052.15	53.33	39.481		
6,100.00	5,940.03	5,501.55	4,719.75	30.32	56.83	-42.96	-651.23	2,646.66	2,146.09	2,091.69	54.40	39.449		
6,200.00	6,036.47	5,607.07	4,793.24	30.90	58.22	-42.98	-664.98	2,699.20	2,186.71	2,131.14	55.57	39.352		
6,300.00	6,132.91	5,684.31	4,866.73	31.49	59.24	-43.01	-678.73	2,751.73	2,227.32	2,170.77	56.55	39.387		
6,400.00	6,229.34	5,775.68	4,940.23	32.07	60.44	-43.03	-692.48	2,804.26	2,267.94	2,210.31	57.62	39.358		
6,500.00	6,325.78	5,867.06	5,013.72	32.66	61.64	-43.05	-706.23	2,856.79	2,308.55	2,249.85	58.70	39.329		
6,552.14	6,376.06	5,914.71	5,052.04	32.96	62.27	-43.06	-713.40	2,884.18	2,329.73	2,270.47	59.26	39.314		
6,600.00	6,422.32	5,958.32	5,087.12	33.24	62.84	-43.36	-719.96	2,909.25	2,349.43	2,289.67	59.77	39.310		
6,700.00	6,519.60	6,048.64	5,159.77	33.78	64.03	-43.98	-733.55	2,961.18	2,392.31	2,331.53	60.77	39.365		
6,800.00	6,617.63	6,137.79	5,231.47	34.27	65.21	-44.58	-746.96	3,012.43	2,437.43	2,375.73	61.71	39.500		
6,900.00	6,716.28	6,225.65	5,302.13	34.72	66.36	-45.18	-760.18	3,062.94	2,484.78	2,422.21	62.57	39.713		
7,000.00	6,815.45	6,312.12	5,371.68	35.13	67.50	-45.77	-773.19	3,112.64	2,534.30	2,470.94	63.36	40.000		
7,100.00	6,915.00	6,402.91	5,440.01	35.49	68.70	-46.37	-785.98	3,161.49	2,585.95	2,521.84	64.11	40.334		
7,200.00	7,014.82	6,480.46	5,507.07	35.81	69.72	-46.97	-798.52	3,209.42	2,639.71	2,574.98	64.73	40.782		
7,300.00	7,114.79	6,562.12	5,572.74	36.09	70.80	-47.59	-810.81	3,256.36	2,695.52	2,630.21	65.31	41.272		
7,319.21	7,134.00	6,577.60	5,585.20	36.14	71.00	85.48	-813.14	3,265.26	2,706.48	2,641.06	65.42	41.374		
7,400.00	7,214.79	6,642.58	5,637.46	36.33	71.86	85.80	-822.91	3,302.62	2,752.74	2,686.90	65.84	41.810		
7,419.21	7,234.00	6,658.03	5,649.89	36.37	72.06	85.88	-825.24	3,311.50	2,763.75	2,697.81	65.94	41.913		
7,450.00	7,264.77	6,682.91	5,669.90	36.46	72.39	-91.52	-828.98	3,325.80	2,781.44	2,715.31	66.12	42.064		
7,500.00	7,314.52	7,500.00	5,810.74	36.62	82.38	-87.89	-854.06	3,421.60	2,809.39	2,737.56	71.82	39.116		
7,550.00	7,363.66	7,867.91	6,734.80	36.81	82.97	-87.67	-955.67	3,809.86	2,828.32	2,754.31	74.01	38.214		
7,600.00	7,411.80	8,550.90	7,411.80	37.03	84.87	-90.46	-975.20	3,884.46	2,831.94	2,758.25	73.69	38.432		
7,650.00	7,458.60	8,602.30	7,458.60	37.29	84.92	-90.78	-975.20	3,884.46	2,832.14	2,757.77	74.37	38.080		
7,700.00	7,503.68	8,643.86	7,504.76	37.57	84.97	-91.14	-975.28	3,884.46	2,832.54	2,757.40	75.14	37.696		
7,750.00	7,546.72	8,695.03	7,555.82	37.89	85.03	-91.55	-978.44	3,884.48	2,833.14	2,757.18	75.96	37.297		
7,800.00	7,587.37	8,748.76	7,608.89	38.23	85.11	-91.96	-986.63	3,884.53	2,833.91	2,757.11	76.80	36.898		
7,850.00	7,625.34	8,805.39	7,663.75	38.59	85.21	-92.37	-1,000.61	3,884.61	2,834.85	2,757.18	77.66	36.502		
7,900.00	7,660.33	8,865.30	7,719.98	38.99	85.34	-92.79	-1,021.21	3,884.74	2,835.92	2,757.40	78.52	36.117		
7,950.00	7,692.07	8,928.89	7,776.96	39.40	85.49	-93.20	-1,049.37	3,884.91	2,837.10	2,757.74	79.36	35.750		
8,000.00	7,720.33	8,996.54	7,833.75	39.85	85.67	-93.60	-1,086.05	3,885.13	2,838.35	2,758.19	80.16	35.408		
8,050.00	7,744.88	9,068.53	7,888.99	40.31	85.88	-93.99	-1,132.15	3,885.41	2,839.60	2,758.68	80.92	35.091		
8,100.00	7,765.55	9,145.07	7,940.89	40.79	86.13	-94.35	-1,188.32	3,885.75	2,840.81	2,759.19	81.62	34.805		
8,150.00	7,782.18	9,226.10	7,987.16	41.30	86.43	-94.68	-1,254.75	3,886.16	2,841.90	2,759.64	82.27	34.545		
8,200.00	7,794.63	9,311.27	8,025.19	41.81	86.76	-94.95	-1,330.87	3,886.62	2,842.81	2,759.95	82.86	34.307		
8,250.00	7,802.82	9,399.85	8,052.33	42.34	87.13	-95.14	-1,415.10	3,887.13	2,843.47	2,760.03	83.44	34.079		
8,300.00	7,806.68	9,490.73	8,066.35	42.88	87.54	-95.25	-1,504.80	3,887.68	2,843.83	2,759.81	84.02	33.846		
8,319.29	7,807.00	9,526.12	8,067.94	43.09	87.70	-95.26	-1,540.14	3,887.89	2,843.88	2,759.62	84.26	33.753		
8,400.00	7,807.00	9,610.50	8,068.00	43.98	88.10	-95.27	-1,624.52	3,888.40	2,843.89	2,757.90	85.98	33.074		
8,500.00	7,807.00	9,710.50	8,068.00	45.12	88.59	-95.27	-1,724.52	3,889.01	2,843.90	2,755.64	88.25	32.224		
8,600.00	7,806.99	9,810.50	8,067.99	46.31	89.11	-95.27	-1,824.52	3,889.62	2,843.91	2,753.30	90.60	31.389		
8,700.00	7,806.99	9,910.50	8,067.99	47.53	89.65	-95.27	-1,924.51	3,890.23	2,843.91	2,750.89	93.02	30.572		
8,800.00	7,806.99	10,010.50	8,067.99	48.78	90.22	-95.27	-2,024.51	3,890.84	2,843.92	2,748.41	95.52	29.774		
8,900.00	7,806.99	10,110.50	8,067.99	50.07	90.81	-95.27	-2,124.51	3,891.44	2,843.93	2,745.86	98.07	28.999		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	10,210.50	8,067.98	51.38	91.42	-95.27	-2,224.51	3,892.05	2,843.94	2,743.25	100.69	28.246		
9,100.00	7,806.98	10,310.50	8,067.98	52.72	92.06	-95.27	-2,324.51	3,892.66	2,843.95	2,740.59	103.35	27.517		
9,200.00	7,806.98	10,410.50	8,067.98	54.09	92.72	-95.27	-2,424.50	3,893.27	2,843.96	2,737.88	106.07	26.812		
9,300.00	7,806.98	10,510.50	8,067.98	55.48	93.41	-95.27	-2,524.50	3,893.88	2,843.96	2,735.13	108.84	26.131		
9,400.00	7,806.97	10,610.50	8,067.98	56.89	94.12	-95.27	-2,624.50	3,894.48	2,843.97	2,732.33	111.64	25.474		
9,500.00	7,806.97	10,710.50	8,067.97	58.32	94.86	-95.27	-2,724.50	3,895.09	2,843.98	2,729.49	114.49	24.840		
9,600.00	7,806.97	10,810.50	8,067.97	59.77	95.62	-95.27	-2,824.50	3,895.70	2,843.99	2,726.61	117.38	24.230		
9,700.00	7,806.97	10,910.50	8,067.97	61.23	96.40	-95.27	-2,924.50	3,896.31	2,844.00	2,723.70	120.30	23.642		
9,800.00	7,806.96	11,010.50	8,067.97	62.71	97.21	-95.27	-3,024.49	3,896.92	2,844.01	2,720.76	123.25	23.076		
9,900.00	7,806.96	11,110.50	8,067.96	64.21	98.04	-95.27	-3,124.49	3,897.52	2,844.01	2,717.79	126.23	22.531		
10,000.00	7,806.96	11,210.50	8,067.96	65.72	98.89	-95.27	-3,224.49	3,898.13	2,844.02	2,714.79	129.24	22.007		
10,100.00	7,806.96	11,310.50	8,067.96	67.24	99.77	-95.27	-3,324.49	3,898.74	2,844.03	2,711.76	132.27	21.502		
10,200.00	7,806.95	11,410.50	8,067.96	68.78	100.67	-95.27	-3,424.49	3,899.35	2,844.04	2,708.71	135.33	21.016		
10,300.00	7,806.95	11,510.50	8,067.95	70.32	101.60	-95.27	-3,524.48	3,899.96	2,844.05	2,705.64	138.41	20.548		
10,400.00	7,806.95	11,610.50	8,067.95	71.88	102.55	-95.27	-3,624.48	3,900.56	2,844.05	2,702.54	141.51	20.098		
10,500.00	7,806.95	11,710.50	8,067.95	73.45	103.51	-95.27	-3,724.48	3,901.17	2,844.06	2,699.43	144.63	19.664		
10,600.00	7,806.95	11,810.50	8,067.95	75.02	104.51	-95.27	-3,824.48	3,901.78	2,844.07	2,696.30	147.77	19.246		
10,700.00	7,806.94	11,910.50	8,067.95	76.61	105.52	-95.27	-3,924.48	3,902.39	2,844.08	2,693.15	150.93	18.844		
10,800.00	7,806.94	12,010.50	8,067.94	78.20	106.55	-95.27	-4,024.48	3,903.00	2,844.09	2,689.99	154.10	18.456		
10,900.00	7,806.94	12,110.50	8,067.94	79.80	107.60	-95.27	-4,124.47	3,903.60	2,844.10	2,686.80	157.29	18.082		
11,000.00	7,806.94	12,210.50	8,067.94	81.41	108.68	-95.27	-4,224.47	3,904.21	2,844.10	2,683.61	160.49	17.721		
11,100.00	7,806.93	12,310.50	8,067.94	83.02	109.77	-95.27	-4,324.47	3,904.82	2,844.11	2,680.40	163.71	17.373		
11,200.00	7,806.93	12,410.50	8,067.93	84.64	110.88	-95.27	-4,424.47	3,905.43	2,844.12	2,677.18	166.94	17.037		
11,300.00	7,806.93	12,510.50	8,067.93	86.27	112.01	-95.27	-4,524.47	3,906.04	2,844.13	2,673.95	170.18	16.712		
11,400.00	7,806.93	12,610.50	8,067.93	87.90	113.16	-95.27	-4,624.46	3,906.64	2,844.14	2,670.70	173.44	16.399		
11,500.00	7,806.92	12,710.50	8,067.93	89.54	114.33	-95.27	-4,724.46	3,907.25	2,844.15	2,667.45	176.70	16.096		
11,600.00	7,806.92	12,810.50	8,067.92	91.18	115.51	-95.27	-4,824.46	3,907.86	2,844.15	2,664.18	179.97	15.803		
11,700.00	7,806.92	12,910.50	8,067.92	92.83	116.71	-95.27	-4,924.46	3,908.47	2,844.16	2,660.91	183.26	15.520		
11,800.00	7,806.92	13,010.50	8,067.92	94.48	117.93	-95.27	-5,024.46	3,909.08	2,844.17	2,657.62	186.55	15.246		
11,900.00	7,806.91	13,110.50	8,067.92	96.14	119.16	-95.27	-5,124.45	3,909.68	2,844.18	2,654.33	189.85	14.981		
12,000.00	7,806.91	13,210.50	8,067.92	97.80	120.41	-95.27	-5,224.45	3,910.29	2,844.19	2,651.03	193.16	14.725		
12,100.00	7,806.91	13,310.50	8,067.91	99.46	121.67	-95.27	-5,324.45	3,910.90	2,844.20	2,647.72	196.48	14.476		
12,200.00	7,806.91	13,410.50	8,067.91	101.13	122.95	-95.27	-5,424.45	3,911.51	2,844.20	2,644.40	199.80	14.235		
12,300.00	7,806.90	13,510.50	8,067.91	102.80	124.24	-95.27	-5,524.45	3,912.12	2,844.21	2,641.08	203.13	14.002		
12,400.00	7,806.90	13,610.50	8,067.91	104.47	125.55	-95.27	-5,624.45	3,912.72	2,844.22	2,637.75	206.47	13.775		
12,500.00	7,806.90	13,710.50	8,067.90	106.15	126.86	-95.27	-5,724.44	3,913.33	2,844.23	2,634.41	209.82	13.556		
12,600.00	7,806.90	13,810.50	8,067.90	107.83	128.20	-95.27	-5,824.44	3,913.94	2,844.24	2,631.07	213.17	13.343		
12,700.00	7,806.89	13,910.50	8,067.90	109.52	129.54	-95.27	-5,924.44	3,914.55	2,844.25	2,627.72	216.52	13.136		
12,800.00	7,806.89	14,010.50	8,067.90	111.20	130.89	-95.27	-6,024.44	3,915.16	2,844.25	2,624.37	219.89	12.935		
12,900.00	7,806.89	14,110.50	8,067.90	112.89	132.26	-95.27	-6,124.44	3,915.76	2,844.26	2,621.01	223.25	12.740		
13,000.00	7,806.89	14,210.50	8,067.89	114.59	133.64	-95.27	-6,224.43	3,916.37	2,844.27	2,617.64	226.63	12.550		
13,100.00	7,806.88	14,310.50	8,067.89	116.28	135.03	-95.27	-6,324.43	3,916.98	2,844.28	2,614.27	230.00	12.366		
13,200.00	7,806.88	14,410.50	8,067.89	117.98	136.42	-95.27	-6,424.43	3,917.59	2,844.29	2,610.90	233.39	12.187		
13,300.00	7,806.88	14,510.50	8,067.89	119.68	137.83	-95.27	-6,524.43	3,918.20	2,844.30	2,607.52	236.77	12.013		
13,400.00	7,806.88	14,610.50	8,067.88	121.38	139.25	-95.27	-6,624.43	3,918.80	2,844.30	2,604.14	240.16	11.843		
13,500.00	7,806.88	14,710.50	8,067.88	123.08	140.68	-95.27	-6,724.43	3,919.41	2,844.31	2,600.75	243.56	11.678		
13,600.00	7,806.87	14,810.50	8,067.88	124.79	142.12	-95.27	-6,824.42	3,920.02	2,844.32	2,597.36	246.96	11.517		
13,700.00	7,806.87	14,910.50	8,067.88	126.49	143.56	-95.27	-6,924.42	3,920.63	2,844.33	2,593.97	250.36	11.361		
13,800.00	7,806.87	15,010.50	8,067.87	128.20	145.02	-95.27	-7,024.42	3,921.24	2,844.34	2,590.57	253.76	11.209		
13,900.00	7,806.87	15,110.50	8,067.87	129.91	146.48	-95.27	-7,124.42	3,921.84	2,844.34	2,587.17	257.17	11.060		
14,000.00	7,806.86	15,210.50	8,067.87	131.62	147.95	-95.27	-7,224.42	3,922.45	2,844.35	2,583.77	260.59	10.915		
14,100.00	7,806.86	15,310.50	8,067.87	133.34	149.43	-95.27	-7,324.41	3,923.06	2,844.36	2,580.36	264.00	10.774		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	15,410.50	8,067.87	135.05	150.91	-95.27	-7,424.41	3,923.67	2,844.37	2,576.95	267.42	10.636		
14,300.00	7,806.86	15,510.50	8,067.86	136.77	152.41	-95.27	-7,524.41	3,924.28	2,844.38	2,573.53	270.84	10.502		
14,400.00	7,806.85	15,610.50	8,067.86	138.49	153.91	-95.27	-7,624.41	3,924.88	2,844.39	2,570.12	274.27	10.371		
14,500.00	7,806.85	15,710.50	8,067.86	140.21	155.41	-95.26	-7,724.41	3,925.49	2,844.39	2,566.70	277.70	10.243		
14,600.00	7,806.85	15,810.50	8,067.86	141.93	156.93	-95.26	-7,824.40	3,926.10	2,844.40	2,563.28	281.13	10.118		
14,700.00	7,806.85	15,910.50	8,067.85	143.65	158.45	-95.26	-7,924.40	3,926.71	2,844.41	2,559.85	284.56	9.996		
14,800.00	7,806.84	16,010.50	8,067.85	145.37	159.97	-95.26	-8,024.40	3,927.31	2,844.42	2,556.43	287.99	9.877		
14,900.00	7,806.84	16,110.50	8,067.85	147.10	161.50	-95.26	-8,124.40	3,927.92	2,844.43	2,553.00	291.43	9.760		
15,000.00	7,806.84	16,210.50	8,067.85	148.83	163.04	-95.26	-8,224.40	3,928.53	2,844.44	2,549.56	294.87	9.646		
15,100.00	7,806.84	16,310.50	8,067.84	150.55	164.58	-95.26	-8,324.40	3,929.14	2,844.44	2,546.13	298.31	9.535		
15,200.00	7,806.83	16,410.50	8,067.84	152.28	166.13	-95.26	-8,424.39	3,929.75	2,844.45	2,542.69	301.76	9.426		
15,300.00	7,806.83	16,510.50	8,067.84	154.01	167.68	-95.26	-8,524.39	3,930.35	2,844.46	2,539.26	305.20	9.320		
15,400.00	7,806.83	16,610.50	8,067.84	155.74	169.24	-95.26	-8,624.39	3,930.96	2,844.47	2,535.82	308.65	9.216		
15,500.00	7,806.83	16,710.50	8,067.84	157.47	170.80	-95.26	-8,724.39	3,931.57	2,844.48	2,532.38	312.10	9.114		
15,600.00	7,806.82	16,810.50	8,067.83	159.20	172.37	-95.26	-8,824.39	3,932.18	2,844.49	2,528.93	315.55	9.014		
15,700.00	7,806.82	16,910.50	8,067.83	160.93	173.94	-95.26	-8,924.38	3,932.79	2,844.49	2,525.49	319.01	8.917		
15,800.00	7,806.82	17,010.50	8,067.83	162.67	175.52	-95.26	-9,024.38	3,933.39	2,844.50	2,522.04	322.46	8.821		
15,900.00	7,806.82	17,110.50	8,067.83	164.40	177.10	-95.26	-9,124.38	3,934.00	2,844.51	2,518.59	325.92	8.728		
16,000.00	7,806.81	17,210.50	8,067.82	166.14	178.68	-95.26	-9,224.38	3,934.61	2,844.52	2,515.14	329.38	8.636		
16,100.00	7,806.81	17,310.50	8,067.82	167.87	180.27	-95.26	-9,324.38	3,935.22	2,844.53	2,511.69	332.84	8.546		
16,200.00	7,806.81	17,410.50	8,067.82	169.61	181.86	-95.26	-9,424.38	3,935.83	2,844.54	2,508.23	336.30	8.458		
16,300.00	7,806.81	17,510.50	8,067.82	171.35	183.46	-95.26	-9,524.37	3,936.43	2,844.54	2,504.78	339.76	8.372		
16,400.00	7,806.81	17,610.50	8,067.81	173.09	185.06	-95.26	-9,624.37	3,937.04	2,844.55	2,501.32	343.23	8.288		
16,500.00	7,806.80	17,710.50	8,067.81	174.83	186.66	-95.26	-9,724.37	3,937.65	2,844.56	2,497.86	346.70	8.205		
16,600.00	7,806.80	17,810.50	8,067.81	176.57	188.27	-95.26	-9,824.37	3,938.26	2,844.57	2,494.41	350.16	8.124		
16,700.00	7,806.80	17,910.50	8,067.81	178.31	189.88	-95.26	-9,924.37	3,938.87	2,844.58	2,490.94	353.63	8.044		
16,800.00	7,806.80	18,010.50	8,067.81	180.05	191.50	-95.26	-10,024.36	3,939.47	2,844.58	2,487.48	357.10	7.966		
16,900.00	7,806.79	18,110.50	8,067.80	181.79	193.11	-95.26	-10,124.36	3,940.08	2,844.59	2,484.02	360.57	7.889		
17,000.00	7,806.79	18,210.50	8,067.80	183.53	194.73	-95.26	-10,224.36	3,940.69	2,844.60	2,480.56	364.05	7.814		
17,100.00	7,806.79	18,310.50	8,067.80	185.27	196.36	-95.26	-10,324.36	3,941.30	2,844.61	2,477.09	367.52	7.740		
17,200.00	7,806.79	18,410.50	8,067.80	187.02	197.98	-95.26	-10,424.36	3,941.91	2,844.62	2,473.62	370.99	7.668		
17,300.00	7,806.78	18,510.50	8,067.79	188.76	199.61	-95.26	-10,524.36	3,942.51	2,844.63	2,470.16	374.47	7.596		
17,400.00	7,806.78	18,610.50	8,067.79	190.51	201.24	-95.26	-10,624.35	3,943.12	2,844.63	2,466.69	377.95	7.527		
17,500.00	7,806.78	18,710.50	8,067.79	192.25	202.88	-95.26	-10,724.35	3,943.73	2,844.64	2,463.22	381.43	7.458		
17,600.00	7,806.78	18,810.50	8,067.79	194.00	204.51	-95.26	-10,824.35	3,944.34	2,844.65	2,459.75	384.90	7.391		
17,700.00	7,806.77	18,910.50	8,067.79	195.74	206.15	-95.26	-10,924.35	3,944.95	2,844.66	2,456.27	388.38	7.324		
17,800.00	7,806.77	19,010.50	8,067.78	197.49	207.79	-95.26	-11,024.35	3,945.55	2,844.67	2,452.80	391.87	7.259		
17,900.00	7,806.77	19,110.50	8,067.78	199.24	209.44	-95.26	-11,124.34	3,946.16	2,844.68	2,449.33	395.35	7.195		
17,973.82	7,807.00	19,184.31	8,067.78	200.53	210.65	-95.26	-11,198.16	3,946.61	2,844.81	2,446.89	397.92	7.149		
17,974.53	7,807.00	19,185.03	8,067.78	200.55	210.66	-95.26	-11,198.87	3,946.61	2,844.81	2,446.87	397.95	7.149 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	-1.00	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	CC, ES	
300.00	300.00	294.20	294.18	0.85	0.82	90.43	-1.36	181.45	181.55	179.87	1.68	108.204		
400.00	400.00	388.19	388.06	1.21	1.16	90.75	-2.42	185.96	186.36	183.99	2.37	78.637		
500.00	500.00	481.78	481.33	1.57	1.50	91.24	-4.19	193.42	194.37	191.30	3.06	63.466		
600.00	600.00	574.78	573.71	1.93	1.86	91.87	-6.64	203.77	205.56	201.81	3.75	54.770		
700.00	700.00	666.98	664.92	2.29	2.24	92.57	-9.74	216.90	219.94	215.50	4.44	49.536		
800.00	800.00	758.22	754.69	2.64	2.64	93.31	-13.48	232.71	237.46	232.34	5.12	46.369		
900.00	900.00	848.33	842.81	3.00	3.06	94.06	-17.81	251.03	258.08	252.29	5.79	44.536		
1,000.00	1,000.00	937.15	929.04	3.36	3.51	94.78	-22.71	271.73	281.76	275.30	6.46	43.604		
1,100.00	1,100.00	1,024.54	1,013.20	3.72	3.99	95.45	-28.12	294.63	308.43	301.32	7.11	43.377		
1,200.00	1,199.98	1,110.79	1,095.53	4.06	4.50	-36.92	-34.04	319.66	336.69	328.95	7.74	43.490		
1,300.00	1,299.84	1,196.26	1,176.30	4.40	5.04	-36.44	-40.47	346.84	365.14	356.79	8.35	43.717		
1,400.00	1,399.45	1,280.95	1,255.48	4.74	5.62	-36.21	-47.38	376.06	393.72	384.76	8.97	43.909		
1,500.00	1,498.70	1,364.86	1,333.02	5.09	6.24	-36.17	-54.75	407.25	422.41	412.83	9.59	44.060		
1,600.00	1,597.47	1,447.98	1,408.88	5.46	6.89	-36.29	-62.57	440.32	451.20	440.98	10.22	44.164		
1,700.00	1,695.62	1,530.32	1,483.02	5.85	7.59	-36.53	-70.82	475.17	480.08	469.22	10.86	44.211		
1,800.00	1,793.06	1,611.88	1,555.42	6.27	8.32	-36.87	-79.46	511.73	509.05	497.53	11.52	44.192		
1,867.07	1,857.94	1,666.15	1,602.98	6.57	8.84	-37.14	-85.47	537.15	528.54	516.57	11.98	44.137		
1,900.00	1,889.69	1,692.64	1,626.02	6.72	9.09	-37.39	-88.48	549.88	538.27	526.07	12.20	44.115		
2,000.00	1,986.13	1,772.19	1,694.45	7.19	9.90	-38.08	-97.81	589.34	569.63	556.72	12.91	44.131		
2,100.00	2,082.57	1,850.32	1,760.54	7.68	10.75	-38.65	-107.40	629.89	603.62	590.00	13.62	44.319		
2,200.00	2,179.00	1,926.96	1,824.25	8.18	11.61	-39.12	-117.21	671.35	640.14	625.80	14.33	44.659		
2,300.00	2,275.44	2,002.05	1,885.54	8.69	12.50	-39.50	-127.19	713.56	679.10	664.05	15.05	45.135		
2,400.00	2,371.88	2,075.52	1,944.39	9.21	13.42	-39.80	-137.31	756.37	720.40	704.65	15.76	45.719		
2,500.00	2,468.31	2,147.35	2,000.81	9.74	14.36	-40.03	-147.54	799.62	763.96	747.50	16.46	46.411		
2,600.00	2,564.75	2,217.50	2,054.82	10.28	15.31	-40.21	-157.84	843.18	809.70	792.54	17.15	47.202		
2,700.00	2,661.19	2,286.32	2,106.73	10.82	16.28	-40.33	-168.24	887.15	857.51	839.67	17.84	48.063		
2,800.00	2,757.62	2,373.59	2,171.90	11.37	17.55	-40.46	-181.60	943.64	906.31	887.50	18.81	48.182		
2,900.00	2,854.06	2,460.86	2,237.07	11.92	18.82	-40.58	-194.96	1,000.13	955.10	935.32	19.79	48.267		
3,000.00	2,950.50	2,548.13	2,302.23	12.47	20.11	-40.69	-208.31	1,056.61	1,003.91	983.13	20.77	48.326		
3,100.00	3,046.93	2,635.40	2,367.40	13.03	21.39	-40.78	-221.67	1,113.10	1,052.71	1,030.94	21.77	48.363		
3,200.00	3,143.37	2,722.67	2,432.57	13.59	22.69	-40.87	-235.03	1,169.59	1,101.51	1,078.75	22.77	48.385		
3,300.00	3,239.81	2,809.94	2,497.73	14.15	23.98	-40.95	-248.39	1,226.08	1,150.32	1,126.55	23.77	48.393		
3,400.00	3,336.24	2,902.79	2,562.90	14.72	25.37	-41.02	-261.75	1,282.57	1,199.13	1,174.31	24.82	48.320		
3,500.00	3,432.68	2,984.48	2,628.07	15.28	26.59	-41.09	-275.10	1,339.05	1,247.94	1,222.15	25.79	48.382		
3,600.00	3,529.12	3,071.75	2,693.23	15.85	27.90	-41.15	-288.46	1,395.54	1,296.75	1,269.94	26.81	48.366		
3,700.00	3,625.55	3,159.02	2,758.40	16.42	29.21	-41.21	-301.82	1,452.03	1,345.56	1,317.73	27.83	48.346		
3,800.00	3,721.99	3,246.29	2,823.57	16.99	30.52	-41.26	-315.18	1,508.52	1,394.38	1,365.52	28.86	48.322		
3,900.00	3,818.43	3,333.56	2,888.73	17.56	31.83	-41.31	-328.54	1,565.01	1,443.19	1,413.31	29.88	48.295		
4,000.00	3,914.86	3,420.83	2,953.90	18.14	33.15	-41.36	-341.89	1,621.49	1,492.01	1,461.09	30.91	48.265		
4,100.00	4,011.30	3,508.10	3,019.07	18.71	34.47	-41.40	-355.25	1,677.98	1,540.82	1,508.88	31.94	48.235		
4,200.00	4,107.74	3,595.37	3,084.23	19.29	35.79	-41.44	-368.61	1,734.47	1,589.64	1,556.66	32.98	48.203		
4,300.00	4,204.17	3,682.64	3,149.40	19.86	37.10	-41.48	-381.97	1,790.96	1,638.45	1,604.44	34.01	48.170		
4,400.00	4,300.61	3,769.91	3,214.57	20.44	38.43	-41.52	-395.33	1,847.45	1,687.27	1,652.22	35.05	48.137		
4,500.00	4,397.05	3,857.18	3,279.73	21.02	39.75	-41.55	-408.68	1,903.93	1,736.09	1,700.00	36.09	48.103		
4,600.00	4,493.48	3,944.45	3,344.90	21.59	41.07	-41.58	-422.04	1,960.42	1,784.91	1,747.78	37.13	48.070		
4,700.00	4,589.92	4,031.72	3,410.07	22.17	42.39	-41.62	-435.40	2,016.91	1,833.73	1,795.55	38.17	48.036		
4,800.00	4,686.36	4,118.99	3,475.23	22.75	43.72	-41.64	-448.76	2,073.40	1,882.54	1,843.33	39.22	48.003		
4,900.00	4,782.79	4,206.26	3,540.40	23.33	45.04	-41.67	-462.12	2,129.88	1,931.36	1,891.10	40.26	47.969		
5,000.00	4,879.23	4,306.47	3,605.57	23.91	46.56	-41.70	-475.47	2,186.37	1,980.18	1,938.79	41.40	47.833		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,380.80	3,670.73	24.49	47.69	-41.72	-488.83	2,242.86	2,029.00	1,986.65	42.36	47.904		
5,200.00	5,072.10	4,468.07	3,735.90	25.07	49.02	-41.75	-502.19	2,299.35	2,077.82	2,034.42	43.40	47.872		
5,300.00	5,168.54	4,555.34	3,801.07	25.66	50.34	-41.77	-515.55	2,355.84	2,126.65	2,082.19	44.45	47.840		
5,400.00	5,264.98	4,642.61	3,866.23	26.24	51.67	-41.79	-528.91	2,412.32	2,175.47	2,129.96	45.50	47.809		
5,500.00	5,361.41	4,729.88	3,931.40	26.82	52.99	-41.81	-542.26	2,468.81	2,224.29	2,177.73	46.55	47.778		
5,600.00	5,457.85	4,817.15	3,996.57	27.40	54.32	-41.83	-555.62	2,525.30	2,273.11	2,225.50	47.61	47.748		
5,700.00	5,554.29	4,904.42	4,061.73	27.99	55.65	-41.85	-568.98	2,581.79	2,321.93	2,273.27	48.66	47.718		
5,800.00	5,650.72	5,008.31	4,126.90	28.57	57.23	-41.87	-582.34	2,638.28	2,370.75	2,320.92	49.83	47.579		
5,900.00	5,747.16	5,078.96	4,192.07	29.15	58.31	-41.89	-595.70	2,694.76	2,419.57	2,368.81	50.77	47.661		
6,000.00	5,843.60	5,166.23	4,257.23	29.74	59.63	-41.90	-609.05	2,751.25	2,468.40	2,416.57	51.82	47.632		
6,100.00	5,940.03	5,253.50	4,322.40	30.32	60.96	-41.92	-622.41	2,807.74	2,517.22	2,464.34	52.88	47.605		
6,200.00	6,036.47	5,340.77	4,387.57	30.90	62.29	-41.94	-635.77	2,864.23	2,566.04	2,512.11	53.93	47.578		
6,300.00	6,132.91	5,428.04	4,452.73	31.49	63.62	-41.95	-649.13	2,920.72	2,614.86	2,559.87	54.99	47.551		
6,400.00	6,229.34	5,515.31	4,517.90	32.07	64.95	-41.97	-662.49	2,977.20	2,663.68	2,607.64	56.05	47.525		
6,500.00	6,325.78	5,602.58	4,583.07	32.66	66.28	-41.98	-675.84	3,033.69	2,712.51	2,655.40	57.11	47.499		
6,552.14	6,376.06	5,648.08	4,617.05	32.96	66.97	-41.99	-682.81	3,063.15	2,737.97	2,680.31	57.66	47.486		
6,600.00	6,422.32	5,689.70	4,648.13	33.24	67.61	-42.35	-689.18	3,090.08	2,761.59	2,703.43	58.16	47.484		
6,700.00	6,519.60	5,775.69	4,712.34	33.78	68.92	-43.12	-702.34	3,145.74	2,812.60	2,753.45	59.15	47.549		
6,800.00	6,617.63	5,860.27	4,775.50	34.27	70.21	-43.88	-715.29	3,200.49	2,865.78	2,805.71	60.08	47.703		
6,900.00	6,716.28	5,943.35	4,837.53	34.72	71.47	-44.66	-728.00	3,254.26	2,921.09	2,860.16	60.93	47.941		
7,000.00	6,815.45	6,024.81	4,898.36	35.13	72.72	-45.46	-740.47	3,306.99	2,978.47	2,916.75	61.72	48.260		
7,100.00	6,915.00	6,104.56	4,957.91	35.49	73.93	-46.27	-752.68	3,358.61	3,037.86	2,975.43	62.44	48.656		
7,200.00	7,014.82	6,182.50	5,016.11	35.81	75.12	-47.11	-764.61	3,409.06	3,099.23	3,036.14	63.09	49.125		
7,300.00	7,114.79	6,258.54	5,072.89	36.09	76.28	-47.97	-776.25	3,458.28	3,162.51	3,098.83	63.68	49.664		
7,319.21	7,134.00	6,272.92	5,083.63	36.14	76.50	85.04	-778.45	3,467.59	3,174.88	3,111.10	63.78	49.776		
7,400.00	7,214.79	6,333.25	5,128.68	36.33	77.42	85.33	-787.69	3,506.64	3,227.08	3,162.87	64.21	50.256		
7,419.21	7,234.00	6,347.60	5,139.39	36.37	77.64	85.40	-789.88	3,515.93	3,239.50	3,175.19	64.32	50.369		
7,450.00	7,264.77	6,382.03	5,164.41	36.46	78.17	-89.88	-975.94	4,299.31	3,246.68	3,173.58	73.10	44.414		
7,500.00	7,314.52	6,431.44	5,213.58	36.62	79.23	-89.89	-980.69	4,299.34	3,246.68	3,173.27	73.41	44.228		
7,550.00	7,363.66	6,480.86	5,262.17	36.81	80.30	-89.89	-989.65	4,299.39	3,246.68	3,172.90	73.78	44.004		
7,600.00	7,411.80	6,530.30	5,311.81	37.03	81.38	-89.89	-1,002.77	4,299.47	3,246.68	3,172.46	74.22	43.745		
7,650.00	7,458.60	6,579.74	5,361.16	37.29	82.47	-89.89	-1,019.95	4,299.58	3,246.68	3,171.96	74.72	43.452		
7,700.00	7,503.68	6,629.21	5,411.88	37.57	83.57	-89.90	-1,041.08	4,299.70	3,246.68	3,171.40	75.28	43.127		
7,750.00	7,546.72	6,678.70	5,462.63	37.89	84.68	-89.90	-1,065.99	4,299.85	3,246.68	3,170.78	75.91	42.772		
7,800.00	7,587.37	6,728.22	5,513.08	38.23	85.80	-89.91	-1,094.51	4,300.03	3,246.68	3,170.09	76.59	42.390		
7,850.00	7,625.34	6,777.77	5,563.95	38.59	86.93	-89.91	-1,126.44	4,300.22	3,246.69	3,169.35	77.33	41.983		
7,900.00	7,660.33	6,827.35	5,614.95	38.99	88.07	-89.92	-1,161.55	4,300.43	3,246.69	3,168.56	78.13	41.554		
7,950.00	7,692.07	6,876.98	5,665.80	39.40	89.22	-89.93	-1,199.58	4,300.67	3,246.69	3,167.71	78.98	41.106		
8,000.00	7,720.33	6,926.64	5,717.26	39.85	90.38	-89.94	-1,240.25	4,300.91	3,246.69	3,166.81	79.88	40.643		
8,050.00	7,744.88	6,976.34	5,768.12	40.31	91.55	-89.95	-1,283.27	4,301.17	3,246.70	3,165.87	80.83	40.168		
8,100.00	7,765.55	6,996.09	5,793.17	40.79	92.72	-89.96	-1,328.33	4,301.45	3,246.70	3,164.88	81.81	39.684		
8,150.00	7,782.18	7,005.89	5,808.25	41.30	93.90	-89.97	-1,375.09	4,301.73	3,246.70	3,163.87	82.83	39.196		
8,200.00	7,794.63	7,015.73	5,818.22	41.81	95.10	-89.98	-1,423.20	4,302.02	3,246.70	3,162.83	83.88	38.707		
8,250.00	7,802.82	7,025.63	5,828.19	42.34	96.29	-89.99	-1,472.31	4,302.32	3,246.71	3,161.76	84.95	38.221		
8,300.00	7,806.68	7,035.58	5,838.16	42.88	97.49	-90.00	-1,522.04	4,302.62	3,246.71	3,160.69	86.02	37.742		
8,319.29	7,807.00	7,045.86	5,848.13	43.09	98.77	-90.00	-1,541.32	4,302.74	3,246.71	3,160.27	86.44	37.560		
8,400.00	7,807.00	7,055.57	5,858.10	43.98	99.91	-90.00	-1,622.02	4,303.23	3,246.72	3,158.49	88.23	36.799		
8,500.00	7,807.00	7,065.56	5,868.07	45.12	101.05	-90.00	-1,722.02	4,303.84	3,246.73	3,156.21	90.51	35.870		
8,600.00	7,806.99	7,075.56	5,878.04	46.31	102.19	-90.00	-1,822.01	4,304.44	3,246.73	3,153.85	92.88	34.956		
8,700.00	7,806.99	7,085.56	5,888.01	47.53	103.33	-90.00	-1,922.01	4,305.05	3,246.74	3,151.42	95.32	34.062		
8,800.00	7,806.99	7,095.56	5,898.01	48.78	104.47	-90.00	-2,022.00	4,305.66	3,246.75	3,148.93	97.82	33.190		
8,900.00	7,806.99	7,105.55	5,908.01	50.07	105.61	-90.00	-2,122.00	4,306.27	3,246.76	3,146.37	100.39	32.341		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	10,225.55	7,806.99	51.38	100.84	-90.00	-2,221.99	4,306.87	3,246.77	3,143.75	103.01	31.517		
9,100.00	7,806.98	10,325.55	7,806.99	52.72	101.41	-90.00	-2,321.99	4,307.48	3,246.77	3,141.08	105.69	30.719		
9,200.00	7,806.98	10,425.54	7,806.99	54.09	101.99	-90.00	-2,421.98	4,308.09	3,246.78	3,138.36	108.42	29.946		
9,300.00	7,806.98	10,525.54	7,806.98	55.48	102.60	-90.00	-2,521.98	4,308.70	3,246.79	3,135.60	111.19	29.199		
9,400.00	7,806.97	10,625.54	7,806.98	56.89	103.22	-90.00	-2,621.97	4,309.30	3,246.80	3,132.79	114.01	28.478		
9,500.00	7,806.97	10,725.54	7,806.98	58.32	103.87	-90.00	-2,721.97	4,309.91	3,246.81	3,129.94	116.86	27.783		
9,600.00	7,806.97	10,825.53	7,806.98	59.77	104.54	-90.00	-2,821.97	4,310.52	3,246.81	3,127.06	119.76	27.112		
9,700.00	7,806.97	10,925.53	7,806.98	61.23	105.23	-90.00	-2,921.96	4,311.13	3,246.82	3,124.14	122.68	26.465		
9,800.00	7,806.96	11,025.53	7,806.98	62.71	105.94	-90.00	-3,021.96	4,311.74	3,246.83	3,121.19	125.64	25.843		
9,900.00	7,806.96	11,125.52	7,806.98	64.21	106.68	-90.00	-3,121.95	4,312.34	3,246.84	3,118.21	128.63	25.243		
10,000.00	7,806.96	11,225.52	7,806.98	65.72	107.43	-90.00	-3,221.95	4,312.95	3,246.85	3,115.21	131.64	24.665		
10,100.00	7,806.96	11,325.52	7,806.97	67.24	108.21	-90.00	-3,321.94	4,313.56	3,246.86	3,112.18	134.68	24.108		
10,200.00	7,806.95	11,425.52	7,806.97	68.78	109.01	-90.00	-3,421.94	4,314.17	3,246.87	3,109.12	137.74	23.572		
10,300.00	7,806.95	11,525.51	7,806.97	70.32	109.83	-90.00	-3,521.93	4,314.78	3,246.87	3,106.04	140.83	23.055		
10,400.00	7,806.95	11,625.51	7,806.97	71.88	110.67	-90.00	-3,621.93	4,315.39	3,246.88	3,102.95	143.94	22.558		
10,500.00	7,806.95	11,725.51	7,806.97	73.45	111.53	-90.00	-3,721.92	4,316.00	3,246.89	3,099.83	147.06	22.078		
10,600.00	7,806.95	11,825.51	7,806.97	75.02	112.41	-90.00	-3,821.92	4,316.60	3,246.90	3,096.69	150.21	21.616		
10,700.00	7,806.94	11,925.50	7,806.97	76.61	113.32	-90.00	-3,921.91	4,317.21	3,246.91	3,093.54	153.37	21.170		
10,800.00	7,806.94	12,025.50	7,806.97	78.20	114.24	-90.00	-4,021.91	4,317.82	3,246.92	3,090.37	156.55	20.740		
10,900.00	7,806.94	12,125.50	7,806.97	79.80	115.19	-90.00	-4,121.91	4,318.43	3,246.93	3,087.18	159.75	20.325		
11,000.00	7,806.94	12,225.49	7,806.97	81.41	116.15	-90.00	-4,221.90	4,319.04	3,246.94	3,083.98	162.96	19.925		
11,100.00	7,806.93	12,325.49	7,806.97	83.02	117.13	-90.00	-4,321.90	4,319.65	3,246.95	3,080.77	166.18	19.539		
11,200.00	7,806.93	12,425.49	7,806.96	84.64	118.14	-90.00	-4,421.89	4,320.26	3,246.96	3,077.55	169.41	19.166		
11,300.00	7,806.93	12,525.49	7,806.96	86.27	119.16	-90.00	-4,521.89	4,320.87	3,246.97	3,074.31	172.66	18.805		
11,400.00	7,806.93	12,625.48	7,806.96	87.90	120.20	-90.00	-4,621.88	4,321.48	3,246.98	3,071.06	175.92	18.457		
11,500.00	7,806.92	12,725.48	7,806.96	89.54	121.26	-90.00	-4,721.88	4,322.09	3,246.99	3,067.80	179.19	18.120		
11,600.00	7,806.92	12,825.48	7,806.96	91.18	122.34	-90.00	-4,821.87	4,322.70	3,247.00	3,064.53	182.47	17.795		
11,700.00	7,806.92	12,925.47	7,806.96	92.83	123.44	-90.00	-4,921.87	4,323.31	3,247.01	3,061.25	185.76	17.480		
11,800.00	7,806.92	13,025.47	7,806.96	94.48	124.55	-90.00	-5,021.86	4,323.92	3,247.02	3,057.96	189.06	17.175		
11,900.00	7,806.91	13,125.47	7,806.96	96.14	125.68	-90.00	-5,121.86	4,324.53	3,247.03	3,054.66	192.37	16.879		
12,000.00	7,806.91	13,225.47	7,806.96	97.80	126.83	-90.00	-5,221.85	4,325.14	3,247.04	3,051.36	195.68	16.593		
12,100.00	7,806.91	13,325.46	7,806.96	99.46	127.99	-90.00	-5,321.85	4,325.75	3,247.05	3,048.04	199.01	16.316		
12,200.00	7,806.91	13,425.46	7,806.96	101.13	129.17	-90.00	-5,421.84	4,326.36	3,247.06	3,044.72	202.34	16.048		
12,300.00	7,806.90	13,525.46	7,806.96	102.80	130.36	-90.00	-5,521.84	4,326.97	3,247.07	3,041.39	205.68	15.787		
12,400.00	7,806.90	13,625.46	7,806.96	104.47	131.57	-90.00	-5,621.84	4,327.58	3,247.08	3,038.06	209.02	15.535		
12,500.00	7,806.90	13,725.45	7,806.96	106.15	132.80	-90.00	-5,721.83	4,328.19	3,247.09	3,034.72	212.38	15.289		
12,600.00	7,806.90	13,825.45	7,806.96	107.83	134.03	-90.00	-5,821.83	4,328.80	3,247.10	3,031.37	215.73	15.051		
12,700.00	7,806.89	13,925.45	7,806.96	109.52	135.29	-90.00	-5,921.82	4,329.41	3,247.12	3,028.02	219.10	14.820		
12,800.00	7,806.89	14,025.44	7,806.96	111.20	136.55	-90.00	-6,021.82	4,330.02	3,247.13	3,024.66	222.47	14.596		
12,900.00	7,806.89	14,125.44	7,806.96	112.89	137.83	-90.00	-6,121.81	4,330.63	3,247.14	3,021.30	225.84	14.378		
13,000.00	7,806.89	14,225.44	7,806.96	114.59	139.12	-90.00	-6,221.81	4,331.24	3,247.15	3,017.93	229.22	14.166		
13,100.00	7,806.88	14,325.44	7,806.96	116.28	140.43	-90.00	-6,321.80	4,331.85	3,247.16	3,014.55	232.61	13.960		
13,200.00	7,806.88	14,425.43	7,806.96	117.98	141.74	-90.00	-6,421.80	4,332.47	3,247.17	3,011.17	236.00	13.759		
13,300.00	7,806.88	14,525.43	7,806.96	119.68	143.07	-90.00	-6,521.79	4,333.08	3,247.18	3,007.79	239.39	13.564		
13,400.00	7,806.88	14,625.43	7,806.96	121.38	144.41	-90.00	-6,621.79	4,333.69	3,247.20	3,004.40	242.79	13.374		
13,500.00	7,806.88	14,725.42	7,806.96	123.08	145.76	-90.00	-6,721.78	4,334.30	3,247.21	3,001.01	246.19	13.190		
13,600.00	7,806.87	14,825.42	7,806.96	124.79	147.12	-90.00	-6,821.78	4,334.91	3,247.22	2,997.62	249.60	13.010		
13,700.00	7,806.87	14,925.42	7,806.96	126.49	148.49	-90.00	-6,921.77	4,335.52	3,247.23	2,994.22	253.01	12.834		
13,800.00	7,806.87	15,025.42	7,806.96	128.20	149.87	-90.00	-7,021.77	4,336.13	3,247.24	2,990.82	256.43	12.664		
13,900.00	7,806.87	15,125.41	7,806.96	129.91	151.27	-90.00	-7,121.77	4,336.75	3,247.25	2,987.41	259.84	12.497		
14,000.00	7,806.86	15,225.41	7,806.96	131.62	152.67	-90.00	-7,221.76	4,337.36	3,247.27	2,984.00	263.26	12.335		
14,100.00	7,806.86	15,325.41	7,806.96	133.34	154.08	-90.00	-7,321.76	4,337.97	3,247.28	2,980.59	266.69	12.176		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	15,425.40	7,806.96	135.05	155.49	-90.00	-7,421.75	4,338.58	3,247.29	2,977.17	270.12	12.022		
14,300.00	7,806.86	15,525.40	7,806.96	136.77	156.92	-90.00	-7,521.75	4,339.19	3,247.30	2,973.76	273.55	11.871		
14,400.00	7,806.85	15,625.40	7,806.96	138.49	158.36	-90.00	-7,621.74	4,339.81	3,247.32	2,970.34	276.98	11.724		
14,500.00	7,806.85	15,725.40	7,806.96	140.21	159.80	-90.00	-7,721.74	4,340.42	3,247.33	2,966.91	280.42	11.580		
14,600.00	7,806.85	15,825.39	7,806.96	141.93	161.25	-90.00	-7,821.73	4,341.03	3,247.34	2,963.49	283.86	11.440		
14,700.00	7,806.85	15,925.39	7,806.96	143.65	162.71	-90.00	-7,921.73	4,341.64	3,247.35	2,960.06	287.30	11.303		
14,800.00	7,806.84	16,025.39	7,806.96	145.37	164.18	-90.00	-8,021.72	4,342.25	3,247.37	2,956.63	290.74	11.169		
14,900.00	7,806.84	16,125.39	7,806.96	147.10	165.66	-90.00	-8,121.72	4,342.87	3,247.38	2,953.19	294.19	11.038		
15,000.00	7,806.84	16,225.38	7,806.96	148.83	167.14	-90.00	-8,221.71	4,343.48	3,247.39	2,949.76	297.64	10.911		
15,100.00	7,806.84	16,325.38	7,806.96	150.55	168.62	-90.00	-8,321.71	4,344.09	3,247.41	2,946.32	301.09	10.786		
15,200.00	7,806.83	16,425.38	7,806.97	152.28	170.12	-90.00	-8,421.70	4,344.71	3,247.42	2,942.88	304.54	10.663		
15,300.00	7,806.83	16,525.37	7,806.97	154.01	171.62	-90.00	-8,521.70	4,345.32	3,247.43	2,939.44	308.00	10.544		
15,400.00	7,806.83	16,625.37	7,806.97	155.74	173.13	-90.00	-8,621.70	4,345.93	3,247.45	2,935.99	311.45	10.427		
15,500.00	7,806.83	16,725.37	7,806.97	157.47	174.64	-90.00	-8,721.69	4,346.54	3,247.46	2,932.55	314.91	10.312		
15,600.00	7,806.82	16,825.37	7,806.97	159.20	176.16	-90.00	-8,821.69	4,347.16	3,247.47	2,929.10	318.38	10.200		
15,700.00	7,806.82	16,925.36	7,806.97	160.93	177.68	-90.00	-8,921.68	4,347.77	3,247.49	2,925.65	321.84	10.090		
15,800.00	7,806.82	17,025.36	7,806.97	162.67	179.21	-90.00	-9,021.68	4,348.38	3,247.50	2,922.20	325.30	9.983		
15,900.00	7,806.82	17,125.36	7,806.97	164.40	180.75	-90.00	-9,121.67	4,349.00	3,247.51	2,918.74	328.77	9.878		
16,000.00	7,806.81	17,225.35	7,806.97	166.14	182.29	-90.00	-9,221.67	4,349.61	3,247.53	2,915.29	332.24	9.775		
16,100.00	7,806.81	17,325.35	7,806.97	167.87	183.83	-90.00	-9,321.66	4,350.22	3,247.54	2,911.83	335.71	9.674		
16,200.00	7,806.81	17,425.35	7,806.97	169.61	185.38	-90.00	-9,421.66	4,350.84	3,247.56	2,908.38	339.18	9.575		
16,300.00	7,806.81	17,525.35	7,806.98	171.35	186.94	-90.00	-9,521.65	4,351.45	3,247.57	2,904.92	342.65	9.478		
16,400.00	7,806.81	17,625.34	7,806.98	173.09	188.50	-90.00	-9,621.65	4,352.07	3,247.58	2,901.46	346.13	9.383		
16,500.00	7,806.80	17,725.34	7,806.98	174.83	190.06	-90.00	-9,721.64	4,352.68	3,247.60	2,897.99	349.60	9.289		
16,600.00	7,806.80	17,825.34	7,806.98	176.57	191.63	-90.00	-9,821.64	4,353.29	3,247.61	2,894.53	353.08	9.198		
16,700.00	7,806.80	17,925.34	7,806.98	178.31	193.20	-90.00	-9,921.63	4,353.91	3,247.63	2,891.07	356.56	9.108		
16,800.00	7,806.80	18,025.33	7,806.98	180.05	194.78	-90.00	-10,021.63	4,354.52	3,247.64	2,887.60	360.04	9.020		
16,900.00	7,806.79	18,125.33	7,806.98	181.79	196.36	-90.00	-10,121.63	4,355.14	3,247.66	2,884.13	363.52	8.934		
17,000.00	7,806.79	18,225.33	7,806.98	183.53	197.94	-90.00	-10,221.62	4,355.75	3,247.67	2,880.67	367.01	8.849		
17,100.00	7,806.79	18,325.32	7,806.99	185.27	199.53	-90.00	-10,321.62	4,356.37	3,247.69	2,877.20	370.49	8.766		
17,200.00	7,806.79	18,425.32	7,806.99	187.02	201.12	-90.00	-10,421.61	4,356.98	3,247.70	2,873.73	373.97	8.684		
17,300.00	7,806.78	18,525.32	7,806.99	188.76	202.72	-90.00	-10,521.61	4,357.59	3,247.72	2,870.26	377.46	8.604		
17,400.00	7,806.78	18,625.32	7,806.99	190.51	204.32	-90.00	-10,621.60	4,358.21	3,247.73	2,866.78	380.95	8.525		
17,500.00	7,806.78	18,725.31	7,806.99	192.25	205.92	-90.00	-10,721.60	4,358.82	3,247.75	2,863.31	384.44	8.448		
17,600.00	7,806.78	18,825.31	7,806.99	194.00	207.52	-90.00	-10,821.59	4,359.44	3,247.76	2,859.84	387.93	8.372		
17,700.00	7,806.77	18,925.31	7,806.99	195.74	209.13	-90.00	-10,921.59	4,360.05	3,247.78	2,856.36	391.42	8.298		
17,800.00	7,806.77	19,025.30	7,807.00	197.49	210.74	-90.00	-11,021.58	4,360.67	3,247.79	2,852.89	394.91	8.224		
17,900.00	7,806.77	19,125.30	7,807.00	199.24	212.36	-90.00	-11,121.58	4,361.28	3,247.81	2,849.41	398.40	8.152		
17,973.82	7,807.00	19,200.88	7,807.00	200.53	213.58	-90.00	-11,195.39	4,361.74	3,247.97	2,846.96	401.01	8.099 SF		
17,974.53	7,807.00	19,200.17	7,807.00	200.55	213.57	-90.00	-11,196.10	4,361.74	3,247.97	2,846.96	401.01	8.100		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	CC, ES	
200.00	200.00	193.64	193.62	0.49	0.47	90.41	-1.43	199.44	199.54	198.58	0.96	206.818		
300.00	300.00	287.08	286.94	0.85	0.81	90.68	-2.42	203.90	204.34	202.67	1.66	122.922		
400.00	400.00	380.12	379.67	1.21	1.15	91.10	-4.04	211.31	212.32	209.96	2.36	89.988		
500.00	500.00	472.57	471.52	1.57	1.52	91.63	-6.30	221.57	223.48	220.43	3.05	73.167		
600.00	600.00	564.25	562.22	1.93	1.90	92.24	-9.17	234.60	237.80	234.05	3.75	63.489		
700.00	700.00	654.98	651.51	2.29	2.31	92.89	-12.61	250.28	255.24	250.81	4.43	57.599		
800.00	800.00	744.59	739.17	2.64	2.74	93.54	-16.61	268.47	275.78	270.66	5.11	53.960		
900.00	900.00	832.95	824.98	3.00	3.19	94.18	-21.13	289.02	299.34	293.56	5.78	51.765		
1,000.00	1,000.00	919.90	908.75	3.36	3.67	94.79	-26.13	311.75	325.88	319.43	6.45	50.552		
1,100.00	1,100.00	1,005.32	990.33	3.72	4.18	95.36	-31.57	336.49	355.32	348.23	7.09	50.086		
1,200.00	1,199.98	1,089.54	1,069.98	4.06	4.72	-37.05	-37.45	363.20	386.27	378.55	7.72	50.038		
1,300.00	1,299.84	1,172.96	1,148.05	4.40	5.30	-36.57	-43.76	391.90	417.35	409.02	8.33	50.115		
1,400.00	1,399.45	1,255.56	1,224.48	4.74	5.92	-36.31	-50.49	422.49	448.50	439.56	8.94	50.170		
1,500.00	1,498.70	1,337.36	1,299.25	5.09	6.57	-36.22	-57.61	454.89	479.70	470.15	9.56	50.193		
1,600.00	1,597.47	1,418.36	1,372.32	5.46	7.25	-36.28	-65.12	489.02	510.93	500.75	10.18	50.174		
1,700.00	1,695.62	1,498.56	1,443.67	5.85	7.97	-36.44	-72.98	524.79	542.19	531.36	10.82	50.101		
1,800.00	1,793.06	1,577.97	1,513.27	6.27	8.74	-36.70	-81.19	562.11	573.47	561.99	11.48	49.954		
1,867.07	1,857.94	1,630.79	1,558.97	6.57	9.27	-36.91	-86.88	587.97	594.46	582.53	11.93	49.819		
1,900.00	1,889.69	1,656.56	1,581.09	6.72	9.54	-37.14	-89.72	600.88	604.92	592.76	12.16	49.752		
2,000.00	1,986.13	1,733.90	1,646.75	7.19	10.37	-37.79	-98.50	640.80	638.43	625.57	12.86	49.651		
2,100.00	2,082.57	1,809.80	1,710.08	7.68	11.22	-38.33	-107.48	681.65	674.48	660.92	13.56	49.731		
2,200.00	2,179.00	1,884.19	1,771.06	8.18	12.11	-38.79	-116.63	723.25	712.99	698.72	14.27	49.964		
2,300.00	2,275.44	1,957.02	1,829.67	8.69	13.02	-39.17	-125.91	765.48	753.86	738.88	14.98	50.335		
2,400.00	2,371.88	2,028.24	1,888.91	9.21	13.94	-39.48	-135.30	808.16	796.99	781.31	15.68	50.835		
2,500.00	2,468.31	2,100.00	1,941.45	9.74	14.91	-39.73	-145.06	852.53	842.31	825.91	16.40	51.360		
2,600.00	2,564.75	2,165.76	1,991.34	10.28	15.85	-39.93	-154.26	894.38	889.71	872.65	17.06	52.155		
2,700.00	2,661.19	2,232.02	2,040.59	10.82	16.81	-40.08	-163.78	937.66	939.12	921.39	17.73	52.957		
2,800.00	2,757.62	2,299.15	2,089.45	11.37	17.82	-40.20	-173.67	982.62	990.45	972.02	18.43	53.738		
2,900.00	2,854.06	2,384.51	2,151.08	11.92	19.14	-40.33	-186.35	1,040.30	1,042.52	1,023.12	19.40	53.740		
3,000.00	2,950.50	2,469.86	2,212.70	12.47	20.46	-40.45	-199.04	1,097.98	1,094.59	1,074.21	20.38	53.721		
3,100.00	3,046.93	2,555.21	2,274.33	13.03	21.79	-40.56	-211.72	1,155.65	1,146.66	1,125.30	21.36	53.685		
3,200.00	3,143.37	2,640.57	2,335.95	13.59	23.12	-40.66	-224.41	1,213.33	1,198.74	1,176.39	22.35	53.638		
3,300.00	3,239.81	2,725.92	2,397.58	14.15	24.46	-40.75	-237.09	1,271.01	1,250.82	1,227.47	23.34	53.582		
3,400.00	3,336.24	2,811.27	2,459.20	14.72	25.80	-40.83	-249.78	1,328.69	1,302.90	1,278.55	24.34	53.520		
3,500.00	3,432.68	2,903.37	2,520.83	15.28	27.25	-40.91	-262.46	1,386.36	1,354.98	1,329.58	25.39	53.358		
3,600.00	3,529.12	2,981.98	2,582.45	15.85	28.50	-40.98	-275.14	1,444.04	1,407.06	1,380.70	26.36	53.384		
3,700.00	3,625.55	3,067.33	2,644.08	16.42	29.85	-41.04	-287.83	1,501.72	1,459.15	1,431.78	27.37	53.313		
3,800.00	3,721.99	3,152.69	2,705.70	16.99	31.20	-41.10	-300.51	1,559.40	1,511.23	1,482.85	28.38	53.241		
3,900.00	3,818.43	3,238.04	2,767.33	17.56	32.56	-41.16	-313.20	1,617.07	1,563.32	1,533.92	29.40	53.169		
4,000.00	3,914.86	3,323.39	2,828.95	18.14	33.91	-41.21	-325.88	1,674.75	1,615.41	1,584.98	30.42	53.097		
4,100.00	4,011.30	3,408.75	2,890.58	18.71	35.27	-41.26	-338.57	1,732.43	1,667.50	1,636.05	31.45	53.026		
4,200.00	4,107.74	3,494.10	2,952.20	19.29	36.63	-41.31	-351.25	1,790.11	1,719.59	1,687.11	32.47	52.955		
4,300.00	4,204.17	3,579.46	3,013.83	19.86	37.99	-41.35	-363.93	1,847.78	1,771.68	1,738.18	33.50	52.886		
4,400.00	4,300.61	3,664.81	3,075.45	20.44	39.36	-41.40	-376.62	1,905.46	1,823.77	1,789.24	34.53	52.818		
4,500.00	4,397.05	3,750.16	3,137.08	21.02	40.72	-41.44	-389.30	1,963.14	1,875.86	1,840.30	35.56	52.752		
4,600.00	4,493.48	3,835.52	3,198.70	21.59	42.08	-41.47	-401.99	2,020.82	1,927.95	1,891.36	36.59	52.687		
4,700.00	4,589.92	3,920.87	3,260.33	22.17	43.45	-41.51	-414.67	2,078.49	1,980.05	1,942.42	37.63	52.623		
4,800.00	4,686.36	4,006.22	3,321.95	22.75	44.81	-41.54	-427.36	2,136.17	2,032.14	1,993.48	38.66	52.561		
4,900.00	4,782.79	4,091.58	3,383.58	23.33	46.18	-41.57	-440.04	2,193.85	2,084.24	2,044.54	39.70	52.501		
5,000.00	4,879.23	4,176.93	3,445.20	23.91	47.55	-41.60	-452.72	2,251.53	2,136.33	2,095.59	40.74	52.442		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,262.28	3,506.83	24.49	48.91	-41.63	-465.41	2,309.20	2,188.43	2,146.65	41.78	52.384		
5,200.00	5,072.10	4,347.64	3,568.45	25.07	50.28	-41.66	-478.09	2,366.88	2,240.52	2,197.71	42.82	52.328		
5,300.00	5,168.54	4,432.99	3,630.08	25.66	51.65	-41.69	-490.78	2,424.56	2,292.62	2,248.76	43.86	52.273		
5,400.00	5,264.98	4,518.34	3,691.70	26.24	53.02	-41.71	-503.46	2,482.24	2,344.72	2,299.81	44.90	52.220		
5,500.00	5,361.41	4,603.70	3,753.33	26.82	54.39	-41.73	-516.15	2,539.91	2,396.81	2,350.87	45.94	52.168		
5,600.00	5,457.85	4,689.05	3,814.95	27.40	55.75	-41.76	-528.83	2,597.59	2,448.91	2,401.92	46.99	52.118		
5,700.00	5,554.29	4,774.40	3,876.58	27.99	57.12	-41.78	-541.51	2,655.27	2,501.01	2,452.97	48.03	52.068		
5,800.00	5,650.72	4,859.76	3,938.20	28.57	58.49	-41.80	-554.20	2,712.95	2,553.10	2,504.03	49.08	52.020		
5,900.00	5,747.16	4,945.11	3,999.83	29.15	59.86	-41.82	-566.88	2,770.62	2,605.20	2,555.08	50.13	51.973		
6,000.00	5,843.60	5,030.46	4,061.45	29.74	61.23	-41.84	-579.57	2,828.30	2,657.30	2,606.13	51.17	51.928		
6,100.00	5,940.03	5,115.82	4,123.08	30.32	62.60	-41.86	-592.25	2,885.98	2,709.40	2,657.18	52.22	51.883		
6,200.00	6,036.47	5,201.17	4,184.70	30.90	63.98	-41.88	-604.94	2,943.66	2,761.50	2,708.23	53.27	51.839		
6,300.00	6,132.91	5,286.52	4,246.33	31.49	65.35	-41.89	-617.62	3,001.33	2,813.60	2,759.28	54.32	51.797		
6,400.00	6,229.34	5,371.88	4,307.95	32.07	66.72	-41.91	-630.30	3,059.01	2,865.69	2,810.32	55.37	51.755		
6,500.00	6,325.78	5,457.23	4,369.58	32.66	68.09	-41.93	-642.99	3,116.69	2,917.79	2,861.37	56.42	51.714		
6,552.14	6,376.06	5,501.74	4,401.71	32.96	68.80	-41.94	-649.60	3,146.76	2,944.96	2,887.99	56.97	51.694		
6,600.00	6,422.32	5,542.43	4,431.09	33.24	69.46	-42.33	-655.65	3,174.26	2,970.15	2,912.68	57.47	51.686		
6,700.00	6,519.60	5,626.42	4,491.73	33.78	70.81	-43.17	-668.13	3,231.02	3,024.38	2,965.93	58.45	51.740		
6,800.00	6,617.63	5,708.93	4,551.30	34.27	72.13	-44.03	-680.39	3,286.77	3,080.74	3,021.37	59.37	51.888		
6,900.00	6,716.28	5,789.85	4,609.73	34.72	73.44	-44.90	-692.42	3,341.46	3,139.16	3,078.94	60.22	52.125		
7,000.00	6,815.45	5,869.09	4,666.94	35.13	74.71	-45.79	-704.20	3,395.00	3,199.59	3,138.58	61.01	52.445		
7,100.00	6,915.00	5,946.54	4,722.86	35.49	75.95	-46.71	-715.71	3,447.34	3,261.96	3,200.24	61.73	52.846		
7,200.00	7,014.82	6,022.12	4,777.43	35.81	77.17	-47.66	-726.94	3,498.41	3,326.23	3,263.85	62.38	53.324		
7,300.00	7,114.79	6,104.27	4,830.57	36.09	78.49	-48.65	-737.88	3,548.15	3,392.34	3,329.31	63.03	53.823		
7,319.21	7,134.00	6,109.64	4,840.62	36.14	78.58	84.34	-739.94	3,557.55	3,405.25	3,342.17	63.07	53.988		
7,400.00	7,214.79	6,167.97	4,882.73	36.33	79.52	84.62	-748.61	3,596.97	3,459.68	3,396.17	63.50	54.479		
7,419.21	7,234.00	6,181.84	4,892.74	36.37	79.74	84.69	-750.67	3,606.34	3,472.63	3,409.02	63.61	54.595		
7,450.00	7,264.77	6,204.19	4,908.88	36.46	80.10	-92.06	-753.99	3,621.44	3,493.43	3,429.64	63.79	54.764		
7,500.00	7,314.52	6,240.85	4,935.34	36.62	80.69	-87.40	-759.44	3,646.21	3,527.29	3,463.13	64.16	54.979		
7,550.00	7,363.66	6,277.72	4,961.97	36.81	81.28	-82.89	-764.92	3,671.13	3,561.00	3,496.39	64.60	55.120		
7,600.00	7,411.80	6,302.94	5,002.94	37.03	82.93	-89.87	-1,001.04	3,626.98	3,574.20	3,499.13	75.07	47.611		
7,650.00	7,458.60	6,350.92	5,050.92	37.29	84.01	-89.87	-1,017.22	3,627.15	3,574.28	3,498.70	75.58	47.290		
7,700.00	7,503.68	6,398.97	5,098.97	37.57	85.10	-89.88	-1,033.15	3,627.37	3,574.38	3,498.22	76.15	46.936		
7,750.00	7,546.72	6,447.10	5,147.10	37.89	86.20	-89.88	-1,049.72	3,627.62	3,574.49	3,497.70	76.79	46.549		
7,800.00	7,587.37	6,495.32	5,195.32	38.23	87.31	-89.89	-1,066.77	3,627.91	3,574.62	3,497.14	77.48	46.133		
7,850.00	7,625.34	6,543.64	5,243.64	38.59	88.42	-89.90	-1,084.15	3,628.24	3,574.77	3,496.53	78.24	45.691		
7,900.00	7,660.33	6,592.08	5,292.08	38.99	89.55	-89.90	-1,101.67	3,628.60	3,574.93	3,495.89	79.04	45.227		
7,950.00	7,692.07	6,640.65	5,340.65	39.40	90.69	-89.91	-1,119.12	3,628.99	3,575.11	3,495.21	79.90	44.743		
8,000.00	7,720.33	6,689.36	5,389.36	39.85	91.83	-89.92	-1,137.27	3,629.42	3,575.30	3,494.49	80.81	44.243		
8,050.00	7,744.88	6,738.22	5,438.22	40.31	92.99	-89.93	-1,155.87	3,629.86	3,575.50	3,493.74	81.76	43.732		
8,100.00	7,765.55	6,787.23	5,487.23	40.79	94.15	-89.94	-1,174.64	3,630.34	3,575.71	3,492.96	82.75	43.212		
8,150.00	7,782.18	6,836.42	5,536.42	41.30	95.32	-89.95	-1,193.59	3,630.83	3,575.93	3,492.16	83.77	42.689		
8,200.00	7,794.63	6,885.78	5,585.78	41.81	96.49	-89.96	-1,212.64	3,631.34	3,576.16	3,491.35	84.81	42.166		
8,250.00	7,802.82	6,935.32	5,635.32	42.34	97.66	-89.97	-1,231.86	3,631.86	3,576.39	3,490.52	85.87	41.647		
8,300.00	7,806.68	6,985.05	5,685.05	42.88	98.83	-89.99	-1,251.31	3,632.39	3,576.63	3,489.68	86.94	41.137		
8,319.29	7,807.00	6,994.29	5,686.43	43.09	99.94	-89.99	-1,270.91	3,632.60	3,576.72	3,489.36	87.36	40.944		
8,400.00	7,807.00	6,994.98	5,687.00	43.98	101.05	-90.00	-1,290.64	3,633.47	3,577.10	3,487.97	89.13	40.133		
8,500.00	7,807.00	6,994.98	5,687.00	45.12	102.16	-90.00	-1,310.48	3,634.54	3,577.58	3,486.17	91.41	39.138		
8,600.00	7,806.99	6,994.98	5,686.99	46.31	103.27	-90.00	-1,330.41	3,635.62	3,578.06	3,484.30	93.76	38.160		
8,700.00	7,806.99	6,994.98	5,686.99	47.53	104.38	-90.00	-1,350.41	3,636.70	3,578.54	3,482.35	96.19	37.202		
8,800.00	7,806.99	6,994.98	5,686.99	48.78	105.49	-90.00	-1,370.48	3,637.78	3,579.02	3,480.33	98.69	36.266		
8,900.00	7,806.99	6,994.98	5,686.99	50.07	106.60	-90.00	-1,390.64	3,638.85	3,579.49	3,478.25	101.25	35.355		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	10,384.97	7,806.97	51.38	107.99	-90.00	-2,203.15	4,639.93	3,579.97	3,476.11	103.86	34.469		
9,100.00	7,806.98	10,484.97	7,806.96	52.72	108.51	-90.00	-2,303.14	4,641.01	3,580.45	3,473.92	106.53	33.610		
9,200.00	7,806.98	10,584.97	7,806.96	54.09	109.05	-90.00	-2,403.13	4,642.09	3,580.93	3,471.68	109.25	32.779		
9,300.00	7,806.98	10,684.97	7,806.96	55.48	109.61	-90.00	-2,503.13	4,643.16	3,581.41	3,469.40	112.01	31.974		
9,400.00	7,806.97	10,784.97	7,806.95	56.89	110.19	-90.00	-2,603.12	4,644.24	3,581.88	3,467.07	114.82	31.197		
9,500.00	7,806.97	10,884.97	7,806.95	58.32	110.79	-90.00	-2,703.11	4,645.32	3,582.36	3,464.70	117.66	30.446		
9,600.00	7,806.97	10,984.97	7,806.94	59.77	111.41	-90.00	-2,803.11	4,646.40	3,582.84	3,462.29	120.54	29.722		
9,700.00	7,806.97	11,084.97	7,806.94	61.23	112.05	-90.00	-2,903.10	4,647.47	3,583.32	3,459.86	123.46	29.024		
9,800.00	7,806.96	11,184.97	7,806.94	62.71	112.71	-90.00	-3,003.09	4,648.55	3,583.79	3,457.38	126.41	28.351		
9,900.00	7,806.96	11,284.97	7,806.93	64.21	113.39	-90.00	-3,103.09	4,649.63	3,584.27	3,454.88	129.39	27.702		
10,000.00	7,806.96	11,384.97	7,806.93	65.72	114.09	-90.00	-3,203.08	4,650.71	3,584.75	3,452.35	132.40	27.076		
10,100.00	7,806.96	11,484.97	7,806.93	67.24	114.81	-90.00	-3,303.07	4,651.78	3,585.23	3,449.80	135.43	26.473		
10,200.00	7,806.95	11,584.96	7,806.92	68.78	115.56	-90.00	-3,403.07	4,652.86	3,585.71	3,447.22	138.48	25.893		
10,300.00	7,806.95	11,684.96	7,806.92	70.32	116.32	-90.00	-3,503.06	4,653.94	3,586.18	3,444.62	141.56	25.333		
10,400.00	7,806.95	11,784.96	7,806.92	71.88	117.10	-90.00	-3,603.05	4,655.02	3,586.66	3,442.00	144.66	24.793		
10,500.00	7,806.95	11,884.96	7,806.91	73.45	117.90	-90.00	-3,703.05	4,656.09	3,587.14	3,439.35	147.78	24.273		
10,600.00	7,806.95	11,984.96	7,806.91	75.02	118.72	-90.00	-3,803.04	4,657.17	3,587.62	3,436.69	150.92	23.771		
10,700.00	7,806.94	12,084.96	7,806.91	76.61	119.56	-90.00	-3,903.03	4,658.25	3,588.09	3,434.01	154.08	23.287		
10,800.00	7,806.94	12,184.96	7,806.90	78.20	120.42	-90.00	-4,003.03	4,659.33	3,588.57	3,431.32	157.25	22.820		
10,900.00	7,806.94	12,284.96	7,806.90	79.80	121.30	-90.00	-4,103.02	4,660.40	3,589.05	3,428.61	160.44	22.370		
11,000.00	7,806.94	12,384.96	7,806.90	81.41	122.20	-90.00	-4,203.01	4,661.48	3,589.53	3,425.88	163.65	21.935		
11,100.00	7,806.93	12,484.96	7,806.90	83.02	123.11	-90.00	-4,303.01	4,662.56	3,590.00	3,423.14	166.86	21.515		
11,200.00	7,806.93	12,584.96	7,806.90	84.64	124.05	-90.00	-4,403.00	4,663.63	3,590.48	3,420.39	170.09	21.109		
11,300.00	7,806.93	12,684.96	7,806.89	86.27	125.00	-90.00	-4,502.99	4,664.71	3,590.96	3,417.62	173.34	20.717		
11,400.00	7,806.93	12,784.95	7,806.89	87.90	125.98	-90.00	-4,602.99	4,665.79	3,591.44	3,414.85	176.59	20.338		
11,500.00	7,806.92	12,884.95	7,806.89	89.54	126.97	-90.00	-4,702.98	4,666.87	3,591.91	3,412.06	179.86	19.971		
11,600.00	7,806.92	12,984.95	7,806.89	91.18	127.98	-90.00	-4,802.97	4,667.94	3,592.39	3,409.26	183.13	19.617		
11,700.00	7,806.92	13,084.95	7,806.89	92.83	129.01	-90.00	-4,902.97	4,669.02	3,592.87	3,406.45	186.42	19.273		
11,800.00	7,806.92	13,184.95	7,806.88	94.48	130.06	-90.00	-5,002.96	4,670.10	3,593.35	3,403.64	189.71	18.941		
11,900.00	7,806.91	13,284.95	7,806.88	96.14	131.12	-90.00	-5,102.96	4,671.17	3,593.82	3,400.81	193.02	18.619		
12,000.00	7,806.91	13,384.95	7,806.88	97.80	132.20	-90.00	-5,202.95	4,672.25	3,594.30	3,397.97	196.33	18.308		
12,100.00	7,806.91	13,484.95	7,806.88	99.46	133.29	-90.00	-5,302.94	4,673.33	3,594.78	3,395.13	199.65	18.006		
12,200.00	7,806.91	13,584.95	7,806.88	101.13	134.41	-90.00	-5,402.94	4,674.41	3,595.26	3,392.28	202.98	17.713		
12,300.00	7,806.90	13,684.95	7,806.88	102.80	135.53	-90.00	-5,502.93	4,675.48	3,595.73	3,389.42	206.31	17.429		
12,400.00	7,806.90	13,784.95	7,806.88	104.47	136.68	-90.00	-5,602.92	4,676.56	3,596.21	3,386.56	209.65	17.153		
12,500.00	7,806.90	13,884.95	7,806.88	106.15	137.84	-90.00	-5,702.92	4,677.64	3,596.69	3,383.69	213.00	16.886		
12,600.00	7,806.90	13,984.95	7,806.88	107.83	139.01	-90.00	-5,802.91	4,678.71	3,597.17	3,380.81	216.36	16.626		
12,700.00	7,806.89	14,084.94	7,806.88	109.52	140.20	-90.00	-5,902.90	4,679.79	3,597.64	3,377.93	219.72	16.374		
12,800.00	7,806.89	14,184.94	7,806.87	111.20	141.40	-90.00	-6,002.90	4,680.87	3,598.12	3,375.04	223.09	16.129		
12,900.00	7,806.89	14,284.94	7,806.87	112.89	142.62	-90.00	-6,102.89	4,681.95	3,598.60	3,372.14	226.46	15.891		
13,000.00	7,806.89	14,384.94	7,806.87	114.59	143.85	-90.00	-6,202.88	4,683.02	3,599.08	3,369.24	229.84	15.659		
13,100.00	7,806.88	14,484.94	7,806.87	116.28	145.09	-90.00	-6,302.88	4,684.10	3,599.55	3,366.33	233.22	15.434		
13,200.00	7,806.88	14,584.94	7,806.87	117.98	146.35	-90.00	-6,402.87	4,685.18	3,600.03	3,363.42	236.61	15.215		
13,300.00	7,806.88	14,684.94	7,806.87	119.68	147.62	-90.00	-6,502.86	4,686.25	3,600.51	3,360.51	240.00	15.002		
13,400.00	7,806.88	14,784.94	7,806.87	121.38	148.90	-90.00	-6,602.86	4,687.33	3,600.99	3,357.59	243.40	14.795		
13,500.00	7,806.88	14,884.94	7,806.87	123.08	150.20	-90.00	-6,702.85	4,688.41	3,601.46	3,354.67	246.80	14.593		
13,600.00	7,806.87	14,984.94	7,806.88	124.79	151.50	-90.00	-6,802.84	4,689.49	3,601.94	3,351.74	250.20	14.396		
13,700.00	7,806.87	15,084.94	7,806.88	126.49	152.82	-90.00	-6,902.84	4,690.56	3,602.42	3,348.81	253.61	14.205		
13,800.00	7,806.87	15,184.94	7,806.88	128.20	154.15	-90.00	-7,002.83	4,691.64	3,602.90	3,345.87	257.02	14.018		
13,900.00	7,806.87	15,284.94	7,806.88	129.91	155.48	-90.00	-7,102.82	4,692.72	3,603.37	3,342.93	260.44	13.836		
14,000.00	7,806.86	15,384.93	7,806.88	131.62	156.83	-90.00	-7,202.82	4,693.79	3,603.85	3,339.99	263.86	13.658		
14,100.00	7,806.86	15,484.93	7,806.88	133.34	158.19	-90.00	-7,302.81	4,694.87	3,604.33	3,337.05	267.28	13.485		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	15,584.93	7,806.88	135.05	159.56	-90.00	-7,402.80	4,695.95	3,604.81	3,334.10	270.71	13.316		
14,300.00	7,806.86	15,684.93	7,806.88	136.77	160.94	-90.00	-7,502.80	4,697.02	3,605.28	3,331.14	274.14	13.151		
14,400.00	7,806.85	15,784.93	7,806.88	138.49	162.33	-90.00	-7,602.79	4,698.10	3,605.76	3,328.19	277.57	12.990		
14,500.00	7,806.85	15,884.93	7,806.88	140.21	163.72	-90.00	-7,702.78	4,699.18	3,606.24	3,325.23	281.01	12.833		
14,600.00	7,806.85	15,984.93	7,806.88	141.93	165.13	-90.00	-7,802.78	4,700.25	3,606.71	3,322.27	284.44	12.680		
14,700.00	7,806.85	16,084.93	7,806.89	143.65	166.54	-90.00	-7,902.77	4,701.33	3,607.19	3,319.31	287.88	12.530		
14,800.00	7,806.84	16,184.93	7,806.89	145.37	167.97	-90.00	-8,002.76	4,702.41	3,607.67	3,316.34	291.33	12.384		
14,900.00	7,806.84	16,284.93	7,806.89	147.10	169.40	-90.00	-8,102.76	4,703.49	3,608.15	3,313.37	294.77	12.240		
15,000.00	7,806.84	16,384.93	7,806.89	148.83	170.84	-90.00	-8,202.75	4,704.56	3,608.62	3,310.40	298.22	12.101		
15,100.00	7,806.84	16,484.93	7,806.89	150.55	172.28	-90.00	-8,302.74	4,705.64	3,609.10	3,307.43	301.67	11.964		
15,200.00	7,806.83	16,584.92	7,806.90	152.28	173.74	-90.00	-8,402.74	4,706.72	3,609.58	3,304.45	305.12	11.830		
15,300.00	7,806.83	16,684.92	7,806.90	154.01	175.20	-90.00	-8,502.73	4,707.79	3,610.06	3,301.48	308.58	11.699		
15,400.00	7,806.83	16,784.92	7,806.90	155.74	176.66	-90.00	-8,602.72	4,708.87	3,610.53	3,298.50	312.04	11.571		
15,500.00	7,806.83	16,884.92	7,806.90	157.47	178.14	-90.00	-8,702.72	4,709.95	3,611.01	3,295.52	315.49	11.446		
15,600.00	7,806.82	16,984.92	7,806.91	159.20	179.62	-90.00	-8,802.71	4,711.02	3,611.49	3,292.53	318.95	11.323		
15,700.00	7,806.82	17,084.92	7,806.91	160.93	181.11	-90.00	-8,902.70	4,712.10	3,611.96	3,289.55	322.42	11.203		
15,800.00	7,806.82	17,184.92	7,806.91	162.67	182.60	-90.00	-9,002.70	4,713.18	3,612.44	3,286.56	325.88	11.085		
15,900.00	7,806.82	17,284.92	7,806.91	164.40	184.10	-90.00	-9,102.69	4,714.25	3,612.92	3,283.57	329.35	10.970		
16,000.00	7,806.81	17,384.92	7,806.92	166.14	185.61	-90.00	-9,202.69	4,715.33	3,613.40	3,280.58	332.82	10.857		
16,100.00	7,806.81	17,484.92	7,806.92	167.87	187.12	-90.00	-9,302.68	4,716.41	3,613.87	3,277.59	336.29	10.746		
16,200.00	7,806.81	17,584.92	7,806.92	169.61	188.63	-90.00	-9,402.67	4,717.48	3,614.35	3,274.59	339.76	10.638		
16,300.00	7,806.81	17,684.92	7,806.93	171.35	190.16	-90.00	-9,502.67	4,718.56	3,614.83	3,271.60	343.23	10.532		
16,400.00	7,806.81	17,784.92	7,806.93	173.09	191.68	-90.00	-9,602.66	4,719.64	3,615.30	3,268.60	346.70	10.428		
16,500.00	7,806.80	17,884.91	7,806.93	174.83	193.22	-90.00	-9,702.65	4,720.71	3,615.78	3,265.60	350.18	10.325		
16,600.00	7,806.80	17,984.91	7,806.94	176.57	194.75	-90.00	-9,802.65	4,721.79	3,616.26	3,262.60	353.66	10.225		
16,700.00	7,806.80	18,084.91	7,806.94	178.31	196.29	-90.00	-9,902.64	4,722.87	3,616.74	3,259.60	357.14	10.127		
16,800.00	7,806.80	18,184.91	7,806.94	180.05	197.84	-90.00	-10,002.63	4,723.94	3,617.21	3,256.60	360.62	10.031		
16,900.00	7,806.79	18,284.91	7,806.95	181.79	199.39	-90.00	-10,102.63	4,725.02	3,617.69	3,253.59	364.10	9.936		
17,000.00	7,806.79	18,384.91	7,806.95	183.53	200.95	-90.00	-10,202.62	4,726.10	3,618.17	3,250.59	367.58	9.843		
17,100.00	7,806.79	18,484.91	7,806.96	185.27	202.51	-90.00	-10,302.61	4,727.17	3,618.64	3,247.58	371.06	9.752		
17,200.00	7,806.79	18,584.91	7,806.96	187.02	204.07	-90.00	-10,402.61	4,728.25	3,619.12	3,244.57	374.55	9.663		
17,300.00	7,806.78	18,684.91	7,806.97	188.76	205.64	-90.00	-10,502.60	4,729.33	3,619.60	3,241.56	378.03	9.575		
17,400.00	7,806.78	18,784.91	7,806.97	190.51	207.22	-90.00	-10,602.59	4,730.40	3,620.07	3,238.55	381.52	9.489		
17,500.00	7,806.78	18,884.91	7,806.97	192.25	208.79	-90.00	-10,702.59	4,731.48	3,620.55	3,235.54	385.01	9.404		
17,600.00	7,806.78	18,984.91	7,806.98	194.00	210.37	-90.00	-10,802.58	4,732.56	3,621.03	3,232.53	388.50	9.321		
17,700.00	7,806.77	19,084.91	7,806.98	195.74	211.96	-90.00	-10,902.57	4,733.63	3,621.51	3,229.52	391.99	9.239		
17,800.00	7,806.77	19,184.90	7,806.99	197.49	213.54	-90.00	-11,002.57	4,734.71	3,621.98	3,226.50	395.48	9.158		
17,900.00	7,806.77	19,284.90	7,806.99	199.24	215.13	-90.00	-11,102.56	4,735.79	3,622.46	3,223.49	398.97	9.079		
17,973.82	7,807.00	19,358.72	7,807.00	200.53	216.31	-90.00	-11,176.37	4,736.58	3,622.97	3,221.41	401.55	9.022		
17,974.53	7,807.00	19,359.43	7,807.00	200.55	216.32	-90.00	-11,177.08	4,736.59	3,622.97	3,221.39	401.58	9.022 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.30	53.98	53.98					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.30	53.98	53.98	53.71	0.27	200.791		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.30	53.98	53.98	53.00	0.99	54.761		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.30	53.98	53.98	52.28	1.70	31.704		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.30	53.98	53.98	51.56	2.42	22.310		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.30	53.98	53.98	50.85	3.14	17.211		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.30	53.98	53.98	50.13	3.85	14.009		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.30	53.98	53.98	49.41	4.57	11.811		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.30	53.98	53.98	48.70	5.29	10.210		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.30	53.98	53.98	47.98	6.00	8.991 CC, ES		
1,000.00	1,000.00	998.38	998.36	3.36	3.34	91.24	-1.19	55.42	55.45	48.75	6.70	8.276		
1,100.00	1,100.00	1,096.53	1,096.38	3.72	3.67	93.70	-3.86	59.71	59.94	52.56	7.38	8.119		
1,200.00	1,199.98	1,194.37	1,193.85	4.06	4.01	-36.92	-8.28	66.81	66.21	58.16	8.04	8.231		
1,300.00	1,299.84	1,291.98	1,290.76	4.40	4.36	-35.28	-14.44	76.72	72.85	64.16	8.69	8.384		
1,400.00	1,399.45	1,389.36	1,386.98	4.74	4.73	-34.35	-22.32	89.39	79.78	70.45	9.34	8.546		
1,500.00	1,498.70	1,486.49	1,482.40	5.09	5.12	-33.96	-31.90	104.79	86.97	76.98	9.99	8.708		
1,600.00	1,597.47	1,583.39	1,576.93	5.46	5.53	-34.01	-43.14	122.87	94.38	83.73	10.64	8.866		
1,700.00	1,695.62	1,680.05	1,670.45	5.85	5.97	-34.38	-56.04	143.61	102.01	90.69	11.32	9.014		
1,800.00	1,793.06	1,776.47	1,762.86	6.27	6.46	-35.00	-70.55	166.95	109.86	97.85	12.01	9.149		
1,867.07	1,857.94	1,841.63	1,824.79	6.57	6.80	-35.55	-81.26	184.18	115.21	102.70	12.50	9.215		
1,900.00	1,889.69	1,874.46	1,855.92	6.72	6.98	-35.91	-86.76	193.01	117.71	104.93	12.77	9.216		
2,000.00	1,986.13	1,974.15	1,950.47	7.19	7.54	-36.90	-103.44	219.84	125.32	111.71	13.61	9.206		
2,100.00	2,082.57	2,073.84	2,045.02	7.68	8.12	-37.78	-120.12	246.66	132.96	118.49	14.48	9.184		
2,200.00	2,179.00	2,173.52	2,139.57	8.18	8.71	-38.57	-136.80	273.49	140.64	125.28	15.36	9.154		
2,300.00	2,275.44	2,273.21	2,234.12	8.69	9.31	-39.27	-153.49	300.32	148.34	132.07	16.27	9.117		
2,400.00	2,371.88	2,372.90	2,328.67	9.21	9.93	-39.90	-170.17	327.14	156.06	138.86	17.19	9.077		
2,500.00	2,468.31	2,472.59	2,423.22	9.74	10.55	-40.48	-186.85	353.97	163.79	145.66	18.13	9.035		
2,600.00	2,564.75	2,572.27	2,517.77	10.28	11.17	-41.00	-203.53	380.80	171.54	152.46	19.08	8.991		
2,700.00	2,661.19	2,671.96	2,612.32	10.82	11.81	-41.48	-220.22	407.63	179.30	159.26	20.04	8.947		
2,800.00	2,757.62	2,771.65	2,706.87	11.37	12.44	-41.91	-236.90	434.45	187.08	166.07	21.01	8.904		
2,900.00	2,854.06	2,871.34	2,801.42	11.92	13.08	-42.32	-253.58	461.28	194.86	172.87	21.99	8.861		
3,000.00	2,950.50	2,971.02	2,895.97	12.47	13.73	-42.69	-270.26	488.11	202.65	179.68	22.98	8.819		
3,100.00	3,046.93	3,070.71	2,990.52	13.03	14.37	-43.03	-286.95	514.93	210.46	186.48	23.97	8.779		
3,200.00	3,143.37	3,170.40	3,085.07	13.59	15.02	-43.35	-303.63	541.76	218.26	193.29	24.97	8.739		
3,300.00	3,239.81	3,270.09	3,179.62	14.15	15.68	-43.65	-320.31	568.59	226.08	200.10	25.98	8.702		
3,400.00	3,336.24	3,369.77	3,274.17	14.72	16.33	-43.93	-336.99	595.41	233.90	206.90	26.99	8.665		
3,500.00	3,432.68	3,469.46	3,368.72	15.28	16.98	-44.19	-353.68	622.24	241.72	213.71	28.01	8.630		
3,600.00	3,529.12	3,569.15	3,463.27	15.85	17.64	-44.43	-370.36	649.07	249.55	220.52	29.03	8.596		
3,700.00	3,625.55	3,668.84	3,557.82	16.42	18.30	-44.66	-387.04	675.90	257.39	227.33	30.05	8.564		
3,800.00	3,721.99	3,768.53	3,652.37	16.99	18.96	-44.87	-403.72	702.72	265.22	234.14	31.08	8.533		
3,900.00	3,818.43	3,868.21	3,746.91	17.56	19.62	-45.08	-420.41	729.55	273.06	240.95	32.11	8.503		
4,000.00	3,914.86	3,967.90	3,841.46	18.14	20.28	-45.27	-437.09	756.38	280.91	247.76	33.15	8.475		
4,100.00	4,011.30	4,067.59	3,936.01	18.71	20.94	-45.45	-453.77	783.20	288.76	254.57	34.18	8.447		
4,200.00	4,107.74	4,167.28	4,030.56	19.29	21.61	-45.62	-470.45	810.03	296.61	261.38	35.22	8.421		
4,300.00	4,204.17	4,266.96	4,125.11	19.86	22.27	-45.78	-487.14	836.86	304.46	268.20	36.26	8.396		
4,400.00	4,300.61	4,366.65	4,219.66	20.44	22.93	-45.94	-503.82	863.68	312.31	275.01	37.31	8.372		
4,500.00	4,397.05	4,466.34	4,314.21	21.02	23.60	-46.08	-520.50	890.51	320.17	281.82	38.35	8.349		
4,600.00	4,493.48	4,566.03	4,408.76	21.59	24.27	-46.22	-537.18	917.34	328.03	288.63	39.40	8.326		
4,700.00	4,589.92	4,665.71	4,503.31	22.17	24.93	-46.36	-553.87	944.16	335.89	295.44	40.45	8.305		
4,800.00	4,686.36	4,765.40	4,597.86	22.75	25.60	-46.48	-570.55	970.99	343.75	302.26	41.49	8.284		
4,900.00	4,782.79	4,865.09	4,692.41	23.33	26.27	-46.60	-587.23	997.82	351.62	309.07	42.55	8.264		
5,000.00	4,879.23	4,964.78	4,786.96	23.91	26.93	-46.72	-603.91	1,024.65	359.48	315.88	43.60	8.245		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,064.46	4,881.51	24.49	27.60	-46.83	-620.60	1,051.47	367.35	322.70	44.65	8.227		
5,200.00	5,072.10	5,164.15	4,976.06	25.07	28.27	-46.94	-637.28	1,078.30	375.22	329.51	45.71	8.209		
5,300.00	5,168.54	5,263.84	5,070.61	25.66	28.94	-47.04	-653.96	1,105.13	383.09	336.32	46.76	8.192		
5,400.00	5,264.98	5,363.53	5,165.16	26.24	29.61	-47.14	-670.64	1,131.95	390.96	343.14	47.82	8.176		
5,500.00	5,361.41	5,463.21	5,259.71	26.82	30.28	-47.23	-687.33	1,158.78	398.83	349.95	48.88	8.160		
5,600.00	5,457.85	5,562.90	5,354.26	27.40	30.95	-47.32	-704.01	1,185.61	406.70	356.76	49.94	8.144		
5,700.00	5,554.29	5,662.59	5,448.81	27.99	31.62	-47.41	-720.69	1,212.43	414.58	363.58	51.00	8.129		
5,800.00	5,650.72	5,762.28	5,543.36	28.57	32.29	-47.49	-737.37	1,239.26	422.45	370.39	52.06	8.115		
5,900.00	5,747.16	5,861.96	5,637.91	29.15	32.96	-47.57	-754.06	1,266.09	430.33	377.21	53.12	8.101		
6,000.00	5,843.60	5,961.65	5,732.46	29.74	33.63	-47.65	-770.74	1,292.92	438.20	384.02	54.18	8.088		
6,100.00	5,940.03	6,061.34	5,827.01	30.32	34.30	-47.73	-787.42	1,319.74	446.08	390.84	55.24	8.075		
6,200.00	6,036.47	6,161.03	5,921.56	30.90	34.97	-47.80	-804.10	1,346.57	453.96	397.65	56.31	8.062		
6,300.00	6,132.91	6,260.72	6,016.11	31.49	35.64	-47.87	-820.79	1,373.40	461.84	404.47	57.37	8.050		
6,400.00	6,229.34	6,360.40	6,110.65	32.07	36.31	-47.94	-837.47	1,400.22	469.71	411.28	58.43	8.038		
6,500.00	6,325.78	6,460.09	6,205.20	32.66	36.98	-48.00	-854.15	1,427.05	477.59	418.10	59.50	8.027		
6,552.14	6,376.06	6,512.07	6,254.51	32.96	37.33	-48.04	-862.85	1,441.04	481.70	421.65	60.05	8.021		
6,600.00	6,422.32	6,559.76	6,299.73	33.24	37.65	-48.09	-870.83	1,453.87	485.74	425.19	60.55	8.022		
6,700.00	6,519.60	6,659.21	6,394.07	33.78	38.32	-48.01	-887.47	1,480.64	495.90	434.42	61.48	8.067		
6,800.00	6,617.63	6,758.48	6,488.22	34.27	38.99	-47.68	-904.09	1,507.35	508.40	446.13	62.27	8.165		
6,900.00	6,716.28	6,874.24	6,598.74	34.72	39.73	-47.13	-922.26	1,536.57	521.64	458.52	63.13	8.263		
7,000.00	6,815.45	6,990.78	6,711.31	35.13	40.41	-46.57	-938.16	1,562.14	534.05	470.17	63.89	8.359		
7,100.00	6,915.00	7,108.07	6,825.75	35.49	41.02	-46.00	-951.70	1,583.92	545.60	481.07	64.53	8.455		
7,200.00	7,014.82	7,226.08	6,941.86	35.81	41.56	-45.43	-962.82	1,601.81	556.27	491.21	65.06	8.550		
7,300.00	7,114.79	7,344.78	7,059.42	36.09	42.04	-44.84	-971.45	1,615.69	566.04	500.57	65.47	8.645		
7,319.21	7,134.00	7,367.66	7,082.15	36.14	42.12	88.46	-972.82	1,617.88	567.81	502.27	65.54	8.664		
7,400.00	7,214.79	7,464.24	7,178.31	36.33	42.45	88.95	-977.54	1,625.47	574.07	508.28	65.79	8.726		
7,419.21	7,234.00	7,487.28	7,201.30	36.37	42.52	89.04	-978.41	1,626.87	575.23	509.37	65.85	8.735		
7,450.00	7,264.77	7,524.28	7,238.23	36.46	42.63	-90.43	-979.60	1,628.79	576.82	510.83	65.99	8.741		
7,500.00	7,314.52	7,584.25	7,298.13	36.62	42.80	-90.68	-981.00	1,631.04	578.73	512.34	66.39	8.717		
7,550.00	7,363.66	7,643.46	7,357.33	36.81	42.94	-91.56	-981.74	1,632.22	579.91	512.91	66.99	8.656		
7,600.00	7,411.80	7,702.06	7,411.80	37.03	43.07	-92.91	-981.87	1,632.43	580.64	512.79	67.85	8.558		
7,650.00	7,458.60	7,744.73	7,458.60	37.29	43.16	-94.40	-981.87	1,632.43	581.84	512.91	68.93	8.441		
7,700.00	7,503.68	7,791.03	7,504.89	37.57	43.26	-96.14	-981.95	1,632.44	584.03	513.83	70.19	8.320		
7,750.00	7,546.72	7,842.96	7,556.71	37.89	43.39	-98.12	-985.20	1,632.45	587.18	515.73	71.46	8.217		
7,800.00	7,587.37	7,897.55	7,610.62	38.23	43.56	-100.09	-993.66	1,632.51	591.14	518.49	72.65	8.137		
7,850.00	7,625.34	7,955.16	7,666.37	38.59	43.77	-102.04	-1,008.09	1,632.59	595.82	522.09	73.73	8.081		
7,900.00	7,660.33	8,016.18	7,723.51	38.99	44.03	-103.96	-1,029.41	1,632.72	601.07	526.43	74.63	8.054		
7,950.00	7,692.07	8,080.99	7,781.36	39.40	44.34	-105.83	-1,058.55	1,632.89	606.71	531.43	75.28	8.059		
8,000.00	7,720.33	8,149.96	7,838.88	39.85	44.72	-107.62	-1,096.53	1,633.12	612.53	536.91	75.62	8.100		
8,050.00	7,744.88	8,223.36	7,894.61	40.31	45.17	-109.31	-1,144.21	1,633.41	618.28	542.67	75.61	8.178		
8,100.00	7,765.55	8,301.30	7,946.61	40.79	45.69	-110.84	-1,202.19	1,633.75	623.66	548.44	75.21	8.292		
8,150.00	7,782.18	8,383.67	7,992.47	41.30	46.30	-112.16	-1,270.52	1,634.16	628.37	553.88	74.49	8.436		
8,200.00	7,794.63	8,469.99	8,029.51	41.81	46.99	-113.20	-1,348.40	1,634.63	632.12	558.60	73.51	8.599		
8,250.00	7,802.82	8,559.42	8,055.11	42.34	47.75	-113.91	-1,433.99	1,635.14	634.65	562.20	72.45	8.760		
8,300.00	7,806.68	8,650.73	8,067.19	42.88	48.57	-114.22	-1,524.40	1,635.68	635.79	564.27	71.52	8.890		
8,319.29	7,807.00	8,686.16	8,067.98	43.09	48.90	-114.23	-1,559.81	1,635.89	635.83	564.60	71.24	8.926		
8,345.51	7,807.00	8,710.12	8,068.00	43.38	49.12	-114.24	-1,583.78	1,636.03	635.84	563.96	71.88	8.846		
8,400.00	7,807.00	8,764.61	8,068.00	43.98	49.64	-114.24	-1,638.27	1,636.36	635.84	562.81	73.02	8.707		
8,500.00	7,807.00	8,864.61	8,068.00	45.12	50.63	-114.24	-1,738.27	1,636.96	635.83	560.64	75.19	8.456		
8,600.00	7,806.99	8,964.61	8,067.99	46.31	51.65	-114.24	-1,838.27	1,637.55	635.83	558.39	77.44	8.210		
8,700.00	7,806.99	9,064.61	8,067.99	47.53	52.72	-114.24	-1,938.27	1,638.15	635.83	556.06	79.77	7.971		
8,800.00	7,806.99	9,164.61	8,067.99	48.78	53.82	-114.24	-2,038.26	1,638.75	635.83	553.67	82.16	7.739		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	9,264.61	8,067.99	50.07	54.96	-114.24	-2,138.26	1,639.35	635.83	551.22	84.61	7.515		
9,000.00	7,806.98	9,364.61	8,067.98	51.38	56.13	-114.24	-2,238.26	1,639.95	635.83	548.71	87.12	7.299		
9,100.00	7,806.98	9,464.61	8,067.98	52.72	57.33	-114.24	-2,338.26	1,640.54	635.82	546.15	89.67	7.090		
9,200.00	7,806.98	9,564.61	8,067.98	54.09	58.57	-114.24	-2,438.26	1,641.14	635.82	543.54	92.28	6.890		
9,300.00	7,806.98	9,664.61	8,067.98	55.48	59.83	-114.24	-2,538.25	1,641.74	635.82	540.90	94.93	6.698		
9,400.00	7,806.97	9,764.61	8,067.98	56.89	61.11	-114.24	-2,638.25	1,642.34	635.82	538.21	97.61	6.514		
9,500.00	7,806.97	9,864.61	8,067.97	58.32	62.42	-114.24	-2,738.25	1,642.93	635.82	535.48	100.34	6.337		
9,600.00	7,806.97	9,964.61	8,067.97	59.77	63.75	-114.24	-2,838.25	1,643.53	635.82	532.72	103.09	6.167		
9,700.00	7,806.97	10,064.61	8,067.97	61.23	65.11	-114.24	-2,938.25	1,644.13	635.81	529.93	105.88	6.005		
9,800.00	7,806.96	10,164.61	8,067.97	62.71	66.48	-114.24	-3,038.25	1,644.73	635.81	527.12	108.70	5.849		
9,900.00	7,806.96	10,264.61	8,067.96	64.21	67.88	-114.24	-3,138.24	1,645.33	635.81	524.27	111.54	5.700		
10,000.00	7,806.96	10,364.61	8,067.96	65.72	69.29	-114.24	-3,238.24	1,645.92	635.81	521.40	114.41	5.558		
10,100.00	7,806.96	10,464.61	8,067.96	67.24	70.72	-114.24	-3,338.24	1,646.52	635.81	518.51	117.29	5.421		
10,200.00	7,806.95	10,564.61	8,067.96	68.78	72.16	-114.24	-3,438.24	1,647.12	635.81	515.60	120.21	5.289		
10,300.00	7,806.95	10,664.61	8,067.95	70.32	73.62	-114.24	-3,538.24	1,647.72	635.80	512.67	123.13	5.163		
10,400.00	7,806.95	10,764.61	8,067.95	71.88	75.09	-114.24	-3,638.23	1,648.31	635.80	509.72	126.08	5.043		
10,500.00	7,806.95	10,864.61	8,067.95	73.45	76.57	-114.24	-3,738.23	1,648.91	635.80	506.75	129.05	4.927		
10,600.00	7,806.95	10,964.61	8,067.95	75.02	78.07	-114.24	-3,838.23	1,649.51	635.80	503.77	132.03	4.816		
10,700.00	7,806.94	11,064.61	8,067.95	76.61	79.58	-114.24	-3,938.23	1,650.11	635.80	500.78	135.02	4.709		
10,800.00	7,806.94	11,164.61	8,067.94	78.20	81.10	-114.24	-4,038.23	1,650.71	635.80	497.76	138.03	4.606		
10,900.00	7,806.94	11,264.61	8,067.94	79.80	82.63	-114.24	-4,138.23	1,651.30	635.79	494.74	141.05	4.507		
11,000.00	7,806.94	11,364.61	8,067.94	81.41	84.17	-114.24	-4,238.22	1,651.90	635.79	491.71	144.09	4.413		
11,100.00	7,806.93	11,464.61	8,067.94	83.02	85.72	-114.24	-4,338.22	1,652.50	635.79	488.66	147.13	4.321		
11,200.00	7,806.93	11,564.61	8,067.93	84.64	87.28	-114.24	-4,438.22	1,653.10	635.79	485.60	150.19	4.233		
11,300.00	7,806.93	11,664.61	8,067.93	86.27	88.84	-114.24	-4,538.22	1,653.69	635.79	482.54	153.25	4.149		
11,400.00	7,806.93	11,764.61	8,067.93	87.90	90.42	-114.24	-4,638.22	1,654.29	635.79	479.46	156.33	4.067		
11,500.00	7,806.92	11,864.61	8,067.93	89.54	92.00	-114.24	-4,738.22	1,654.89	635.78	476.37	159.41	3.988		
11,600.00	7,806.92	11,964.61	8,067.93	91.18	93.59	-114.24	-4,838.21	1,655.49	635.78	473.28	162.50	3.912		
11,700.00	7,806.92	12,064.61	8,067.92	92.83	95.18	-114.24	-4,938.21	1,656.08	635.78	470.18	165.60	3.839		
11,800.00	7,806.92	12,164.61	8,067.92	94.48	96.78	-114.24	-5,038.21	1,656.68	635.78	467.07	168.71	3.768		
11,900.00	7,806.91	12,264.61	8,067.92	96.14	98.39	-114.24	-5,138.21	1,657.28	635.78	463.95	171.82	3.700		
12,000.00	7,806.91	12,364.61	8,067.92	97.80	100.00	-114.24	-5,238.21	1,657.88	635.78	460.83	174.95	3.634		
12,100.00	7,806.91	12,464.61	8,067.91	99.46	101.62	-114.24	-5,338.20	1,658.48	635.77	457.70	178.07	3.570		
12,200.00	7,806.91	12,564.61	8,067.91	101.13	103.24	-114.24	-5,438.20	1,659.07	635.77	454.57	181.21	3.509		
12,300.00	7,806.90	12,664.61	8,067.91	102.80	104.87	-114.24	-5,538.20	1,659.67	635.77	451.43	184.34	3.449		
12,400.00	7,806.90	12,764.61	8,067.91	104.47	106.50	-114.24	-5,638.20	1,660.27	635.77	448.28	187.49	3.391		
12,500.00	7,806.90	12,864.61	8,067.90	106.15	108.14	-114.24	-5,738.20	1,660.87	635.77	445.13	190.64	3.335		
12,600.00	7,806.90	12,964.61	8,067.90	107.83	109.78	-114.24	-5,838.20	1,661.46	635.77	441.97	193.79	3.281		
12,700.00	7,806.89	13,064.61	8,067.90	109.52	111.43	-114.24	-5,938.19	1,662.06	635.76	438.81	196.95	3.228		
12,800.00	7,806.89	13,164.61	8,067.90	111.20	113.08	-114.24	-6,038.19	1,662.66	635.76	435.65	200.12	3.177		
12,900.00	7,806.89	13,264.61	8,067.90	112.89	114.73	-114.24	-6,138.19	1,663.26	635.76	432.48	203.28	3.127		
13,000.00	7,806.89	13,364.61	8,067.89	114.59	116.39	-114.24	-6,238.19	1,663.86	635.76	429.30	206.45	3.079		
13,100.00	7,806.88	13,464.61	8,067.89	116.28	118.05	-114.24	-6,338.19	1,664.45	635.76	426.13	209.63	3.033		
13,200.00	7,806.88	13,564.61	8,067.89	117.98	119.71	-114.24	-6,438.18	1,665.05	635.76	422.95	212.81	2.987		
13,300.00	7,806.88	13,664.61	8,067.89	119.68	121.38	-114.24	-6,538.18	1,665.65	635.75	419.76	215.99	2.943		
13,400.00	7,806.88	13,764.61	8,067.88	121.38	123.05	-114.24	-6,638.18	1,666.25	635.75	416.57	219.18	2.901		
13,500.00	7,806.88	13,864.61	8,067.88	123.08	124.72	-114.24	-6,738.18	1,666.84	635.75	413.38	222.37	2.859		
13,600.00	7,806.87	13,964.61	8,067.88	124.79	126.40	-114.24	-6,838.18	1,667.44	635.75	410.19	225.56	2.819		
13,700.00	7,806.87	14,064.61	8,067.88	126.49	128.08	-114.24	-6,938.18	1,668.04	635.75	406.99	228.75	2.779		
13,800.00	7,806.87	14,164.61	8,067.87	128.20	129.76	-114.24	-7,038.17	1,668.64	635.75	403.79	231.95	2.741		
13,900.00	7,806.87	14,264.61	8,067.87	129.91	131.44	-114.24	-7,138.17	1,669.24	635.74	400.59	235.15	2.704		
14,000.00	7,806.86	14,364.61	8,067.87	131.62	133.13	-114.24	-7,238.17	1,669.83	635.74	397.39	238.36	2.667		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,464.61	8,067.87	133.34	134.81	-114.24	-7,338.17	1,670.43	635.74	394.18	241.56	2.632		
14,200.00	7,806.86	14,564.61	8,067.87	135.05	136.50	-114.24	-7,438.17	1,671.03	635.74	390.97	244.77	2.597		
14,300.00	7,806.86	14,664.61	8,067.86	136.77	138.20	-114.24	-7,538.17	1,671.63	635.74	387.76	247.98	2.564		
14,400.00	7,806.85	14,764.61	8,067.86	138.49	139.89	-114.24	-7,638.16	1,672.22	635.74	384.54	251.19	2.531		
14,500.00	7,806.85	14,864.61	8,067.86	140.21	141.59	-114.24	-7,738.16	1,672.82	635.73	381.33	254.41	2.499		
14,600.00	7,806.85	14,964.61	8,067.86	141.93	143.28	-114.24	-7,838.16	1,673.42	635.73	378.11	257.63	2.468		
14,700.00	7,806.85	15,064.61	8,067.85	143.65	144.98	-114.24	-7,938.16	1,674.02	635.73	374.89	260.84	2.437		
14,800.00	7,806.84	15,164.61	8,067.85	145.37	146.68	-114.24	-8,038.16	1,674.62	635.73	371.66	264.07	2.407		
14,900.00	7,806.84	15,264.61	8,067.85	147.10	148.39	-114.24	-8,138.15	1,675.21	635.73	368.44	267.29	2.378		
15,000.00	7,806.84	15,364.61	8,067.85	148.83	150.09	-114.24	-8,238.15	1,675.81	635.73	365.21	270.51	2.350		
15,100.00	7,806.84	15,464.61	8,067.84	150.55	151.80	-114.24	-8,338.15	1,676.41	635.72	361.99	273.74	2.322		
15,200.00	7,806.83	15,564.61	8,067.84	152.28	153.51	-114.24	-8,438.15	1,677.01	635.72	358.76	276.97	2.295		
15,300.00	7,806.83	15,664.61	8,067.84	154.01	155.22	-114.24	-8,538.15	1,677.60	635.72	355.53	280.20	2.269		
15,400.00	7,806.83	15,764.61	8,067.84	155.74	156.93	-114.24	-8,638.15	1,678.20	635.72	352.29	283.43	2.243		
15,500.00	7,806.83	15,864.61	8,067.84	157.47	158.64	-114.24	-8,738.14	1,678.80	635.72	349.06	286.66	2.218		
15,600.00	7,806.82	15,964.61	8,067.83	159.20	160.35	-114.24	-8,838.14	1,679.40	635.72	345.82	289.89	2.193		
15,700.00	7,806.82	16,064.61	8,067.83	160.93	162.07	-114.24	-8,938.14	1,680.00	635.71	342.59	293.13	2.169		
15,800.00	7,806.82	16,164.61	8,067.83	162.67	163.78	-114.24	-9,038.14	1,680.59	635.71	339.35	296.36	2.145		
15,900.00	7,806.82	16,264.61	8,067.83	164.40	165.50	-114.24	-9,138.14	1,681.19	635.71	336.11	299.60	2.122		
16,000.00	7,806.81	16,364.61	8,067.82	166.14	167.22	-114.24	-9,238.13	1,681.79	635.71	332.87	302.84	2.099		
16,100.00	7,806.81	16,464.61	8,067.82	167.87	168.94	-114.24	-9,338.13	1,682.39	635.71	329.63	306.08	2.077		
16,200.00	7,806.81	16,564.61	8,067.82	169.61	170.66	-114.24	-9,438.13	1,682.98	635.71	326.38	309.32	2.055		
16,300.00	7,806.81	16,664.61	8,067.82	171.35	172.38	-114.24	-9,538.13	1,683.58	635.70	323.14	312.56	2.034		
16,400.00	7,806.81	16,764.61	8,067.82	173.09	174.10	-114.24	-9,638.13	1,684.18	635.70	319.89	315.81	2.013		
16,500.00	7,806.80	16,864.61	8,067.81	174.83	175.83	-114.24	-9,738.13	1,684.78	635.70	316.65	319.05	1.992		
16,600.00	7,806.80	16,964.61	8,067.81	176.57	177.55	-114.24	-9,838.12	1,685.38	635.70	313.40	322.30	1.972		
16,700.00	7,806.80	17,064.61	8,067.81	178.31	179.28	-114.24	-9,938.12	1,685.97	635.70	310.15	325.55	1.953		
16,800.00	7,806.80	17,164.61	8,067.81	180.05	181.01	-114.24	-10,038.12	1,686.57	635.70	306.90	328.79	1.933		
16,900.00	7,806.79	17,264.61	8,067.80	181.79	182.73	-114.24	-10,138.12	1,687.17	635.69	303.65	332.04	1.914		
17,000.00	7,806.79	17,364.61	8,067.80	183.53	184.46	-114.24	-10,238.12	1,687.77	635.69	300.40	335.29	1.896		
17,100.00	7,806.79	17,464.61	8,067.80	185.27	186.19	-114.24	-10,338.12	1,688.36	635.69	297.15	338.54	1.878		
17,200.00	7,806.79	17,564.61	8,067.80	187.02	187.92	-114.24	-10,438.11	1,688.96	635.69	293.90	341.79	1.860		
17,300.00	7,806.78	17,664.61	8,067.79	188.76	189.65	-114.24	-10,538.11	1,689.56	635.69	290.64	345.05	1.842		
17,400.00	7,806.78	17,764.61	8,067.79	190.51	191.38	-114.24	-10,638.11	1,690.16	635.69	287.39	348.30	1.825		
17,500.00	7,806.78	17,864.61	8,067.79	192.25	193.12	-114.24	-10,738.11	1,690.76	635.68	284.13	351.55	1.808		
17,600.00	7,806.78	17,964.61	8,067.79	194.00	194.85	-114.24	-10,838.11	1,691.35	635.68	280.88	354.81	1.792		
17,700.00	7,806.77	18,064.61	8,067.79	195.74	196.58	-114.24	-10,938.10	1,691.95	635.68	277.62	358.06	1.775		
17,800.00	7,806.77	18,164.61	8,067.78	197.49	198.32	-114.24	-11,038.10	1,692.55	635.68	274.36	361.32	1.759		
17,900.00	7,806.77	18,264.61	8,067.78	199.24	200.05	-114.24	-11,138.10	1,693.15	635.68	271.10	364.57	1.744		
17,936.62	7,806.77	19,679.97	8,067.76	199.88	224.64	-114.24	-11,170.16	1,693.32	635.67	247.17	388.50	1.636 SF		
17,973.82	7,807.00	18,333.87	8,067.95	200.53	201.25	-114.23	-11,207.35	1,693.75	635.98	268.72	367.26	1.732		
17,974.53	7,807.00	18,334.58	8,067.96	200.55	201.27	-114.23	-11,208.06	1,693.76	635.98	268.70	367.28	1.732		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.40	71.98	71.98					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.40	71.98	71.98	71.71	0.27	267.725		
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 CC, ES		
900.00	900.00	897.78	897.76	3.00	2.98	90.92	-1.18	73.45	73.50	67.51	5.98	12.285		
1,000.00	1,000.00	995.34	995.19	3.36	3.31	92.58	-3.51	77.86	78.09	71.43	6.66	11.717		
1,100.00	1,100.00	1,092.44	1,091.93	3.72	3.65	94.95	-7.37	85.16	85.86	78.52	7.34	11.692		
1,200.00	1,199.98	1,189.08	1,187.88	4.06	4.00	-36.06	-12.73	95.30	95.50	87.50	8.00	11.938		
1,300.00	1,299.84	1,285.37	1,283.05	4.40	4.37	-34.72	-19.57	108.24	105.55	96.91	8.64	12.217		
1,400.00	1,399.45	1,381.32	1,377.34	4.74	4.76	-34.02	-27.87	123.94	115.92	106.64	9.28	12.491		
1,500.00	1,498.70	1,476.92	1,470.64	5.09	5.17	-33.80	-37.61	142.35	126.57	116.65	9.92	12.757		
1,600.00	1,597.47	1,572.17	1,562.86	5.46	5.61	-33.95	-48.75	163.42	137.47	126.90	10.58	12.998		
1,700.00	1,695.62	1,667.07	1,653.89	5.85	6.09	-34.37	-61.26	187.10	148.62	137.38	11.24	13.221		
1,800.00	1,793.06	1,761.60	1,743.65	6.27	6.60	-35.02	-75.13	213.32	160.03	148.10	11.93	13.418		
1,867.07	1,857.94	1,824.81	1,803.09	6.57	6.97	-35.54	-85.16	232.30	167.83	155.43	12.40	13.534		
1,900.00	1,889.69	1,855.77	1,832.03	6.72	7.16	-35.83	-90.30	242.03	171.85	159.21	12.64	13.598		
2,000.00	1,986.13	1,952.83	1,922.22	7.19	7.78	-36.50	-107.07	273.74	185.51	172.07	13.44	13.802		
2,100.00	2,082.57	2,051.84	2,014.15	7.68	8.44	-37.06	-124.27	306.26	199.40	185.09	14.31	13.935		
2,200.00	2,179.00	2,150.86	2,106.07	8.18	9.12	-37.54	-141.46	338.79	213.31	198.11	15.20	14.036		
2,300.00	2,275.44	2,249.87	2,197.99	8.69	9.81	-37.97	-158.66	371.32	227.23	211.13	16.10	14.110		
2,400.00	2,371.88	2,348.88	2,289.92	9.21	10.51	-38.35	-175.86	403.84	241.16	224.14	17.02	14.165		
2,500.00	2,468.31	2,447.90	2,381.84	9.74	11.23	-38.68	-193.05	436.37	255.10	237.14	17.96	14.205		
2,600.00	2,564.75	2,546.91	2,473.76	10.28	11.95	-38.98	-210.25	468.90	269.05	250.14	18.90	14.232		
2,700.00	2,661.19	2,645.92	2,565.69	10.82	12.67	-39.25	-227.45	501.43	283.00	263.14	19.86	14.251		
2,800.00	2,757.62	2,744.94	2,657.61	11.37	13.40	-39.50	-244.64	533.95	296.96	276.14	20.82	14.262		
2,900.00	2,854.06	2,843.95	2,749.53	11.92	14.14	-39.72	-261.84	566.48	310.93	289.13	21.79	14.267		
3,000.00	2,950.50	2,942.96	2,841.45	12.47	14.88	-39.93	-279.04	599.01	324.90	302.12	22.77	14.268		
3,100.00	3,046.93	3,041.98	2,933.38	13.03	15.62	-40.12	-296.23	631.53	338.87	315.11	23.75	14.265		
3,200.00	3,143.37	3,140.99	3,025.30	13.59	16.37	-40.29	-313.43	664.06	352.84	328.10	24.74	14.260		
3,300.00	3,239.81	3,240.00	3,117.22	14.15	17.11	-40.45	-330.63	696.59	366.82	341.09	25.74	14.253		
3,400.00	3,336.24	3,339.02	3,209.15	14.72	17.86	-40.60	-347.82	729.11	380.80	354.07	26.73	14.244		
3,500.00	3,432.68	3,438.03	3,301.07	15.28	18.61	-40.74	-365.02	761.64	394.79	367.05	27.74	14.234		
3,600.00	3,529.12	3,537.04	3,392.99	15.85	19.37	-40.86	-382.22	794.17	408.77	380.03	28.74	14.223		
3,700.00	3,625.55	3,636.05	3,484.92	16.42	20.12	-40.98	-399.41	826.69	422.76	393.01	29.75	14.211		
3,800.00	3,721.99	3,735.07	3,576.84	16.99	20.88	-41.10	-416.61	859.22	436.75	405.99	30.76	14.199		
3,900.00	3,818.43	3,834.08	3,668.76	17.56	21.64	-41.20	-433.81	891.75	450.74	418.97	31.77	14.187		
4,000.00	3,914.86	3,933.09	3,760.69	18.14	22.39	-41.30	-451.00	924.28	464.73	431.95	32.79	14.174		
4,100.00	4,011.30	4,032.11	3,852.61	18.71	23.15	-41.39	-468.20	956.80	478.73	444.92	33.80	14.161		
4,200.00	4,107.74	4,131.12	3,944.53	19.29	23.91	-41.48	-485.40	989.33	492.72	457.90	34.82	14.149		
4,300.00	4,204.17	4,230.13	4,036.46	19.86	24.67	-41.56	-502.59	1,021.86	506.72	470.87	35.85	14.136		
4,400.00	4,300.61	4,329.15	4,128.38	20.44	25.44	-41.64	-519.79	1,054.38	520.71	483.85	36.87	14.124		
4,500.00	4,397.05	4,428.16	4,220.30	21.02	26.20	-41.72	-536.99	1,086.91	534.71	496.82	37.89	14.111		
4,600.00	4,493.48	4,527.17	4,312.23	21.59	26.96	-41.79	-554.18	1,119.44	548.71	509.79	38.92	14.099		
4,700.00	4,589.92	4,626.19	4,404.15	22.17	27.72	-41.85	-571.38	1,151.96	562.71	522.77	39.95	14.087		
4,800.00	4,686.36	4,725.20	4,496.07	22.75	28.49	-41.92	-588.58	1,184.49	576.71	535.74	40.97	14.075		
4,900.00	4,782.79	4,824.21	4,588.00	23.33	29.25	-41.98	-605.77	1,217.02	590.71	548.71	42.00	14.064		
5,000.00	4,879.23	4,923.23	4,679.92	23.91	30.02	-42.04	-622.97	1,249.54	604.71	561.68	43.03	14.052		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,022.24	4,771.84	24.49	30.78	-42.09	-640.17	1,282.07	618.71	574.65	44.06	14.041		
5,200.00	5,072.10	5,121.25	4,863.77	25.07	31.55	-42.14	-657.36	1,314.60	632.72	587.62	45.10	14.030		
5,300.00	5,168.54	5,220.27	4,955.69	25.66	32.31	-42.19	-674.56	1,347.13	646.72	600.59	46.13	14.020		
5,400.00	5,264.98	5,319.28	5,047.61	26.24	33.08	-42.24	-691.76	1,379.65	660.72	613.56	47.16	14.009		
5,500.00	5,361.41	5,418.29	5,139.54	26.82	33.85	-42.29	-708.95	1,412.18	674.73	626.53	48.20	13.999		
5,600.00	5,457.85	5,517.30	5,231.46	27.40	34.61	-42.33	-726.15	1,444.71	688.73	639.50	49.23	13.989		
5,700.00	5,554.29	5,616.32	5,323.38	27.99	35.38	-42.38	-743.35	1,477.23	702.74	652.47	50.27	13.979		
5,800.00	5,650.72	5,715.33	5,415.31	28.57	36.15	-42.42	-760.54	1,509.76	716.74	665.43	51.31	13.970		
5,900.00	5,747.16	5,814.34	5,507.23	29.15	36.91	-42.46	-777.74	1,542.29	730.75	678.40	52.34	13.961		
6,000.00	5,843.60	5,913.36	5,599.15	29.74	37.68	-42.49	-794.94	1,574.81	744.75	691.37	53.38	13.952		
6,100.00	5,940.03	6,012.37	5,691.07	30.32	38.45	-42.53	-812.13	1,607.34	758.76	704.34	54.42	13.943		
6,200.00	6,036.47	6,111.38	5,783.00	30.90	39.22	-42.57	-829.33	1,639.87	772.76	717.31	55.46	13.934		
6,300.00	6,132.91	6,210.40	5,874.92	31.49	39.99	-42.60	-846.53	1,672.39	786.77	730.27	56.50	13.926		
6,400.00	6,229.34	6,309.41	5,966.84	32.07	40.76	-42.63	-863.72	1,704.92	800.78	743.24	57.54	13.918		
6,500.00	6,325.78	6,408.42	6,058.77	32.66	41.52	-42.67	-880.92	1,737.45	814.78	756.21	58.58	13.910		
6,552.14	6,376.06	6,473.63	6,119.49	32.96	42.02	-42.70	-892.03	1,758.46	821.76	762.49	59.27	13.864		
6,600.00	6,422.32	6,537.30	6,179.27	33.24	42.48	-42.84	-902.25	1,777.80	827.50	767.57	59.93	13.807		
6,700.00	6,519.60	6,670.93	6,306.26	33.78	43.37	-43.09	-921.69	1,814.56	838.38	777.17	61.21	13.697		
6,800.00	6,617.63	6,805.31	6,435.78	34.27	44.17	-43.30	-938.42	1,846.21	847.69	785.35	62.34	13.597		
6,900.00	6,716.28	6,940.33	6,567.45	34.72	44.86	-43.47	-952.35	1,872.56	855.41	792.09	63.32	13.509		
7,000.00	6,815.45	7,075.88	6,700.91	35.13	45.46	-43.61	-963.41	1,893.47	861.51	797.36	64.15	13.429		
7,100.00	6,915.00	7,211.83	6,835.73	35.49	45.96	-43.71	-971.52	1,908.82	865.98	801.15	64.83	13.358		
7,200.00	7,014.82	7,348.05	6,971.50	35.81	46.37	-43.77	-976.64	1,918.50	868.80	803.44	65.35	13.294		
7,300.00	7,114.79	7,484.43	7,107.79	36.09	46.70	-43.79	-978.74	1,922.47	869.95	804.22	65.73	13.236		
7,319.21	7,134.00	7,510.64	7,134.00	36.14	46.75	89.39	-978.80	1,922.58	869.98	804.20	65.78	13.226		
7,400.00	7,214.79	7,591.43	7,214.79	36.33	46.90	89.39	-978.80	1,922.58	869.98	803.80	66.18	13.146		
7,419.21	7,234.00	7,610.64	7,234.00	36.37	46.94	89.39	-978.80	1,922.58	869.98	803.70	66.28	13.126		
7,450.00	7,264.77	7,641.65	7,264.99	36.46	47.00	-90.26	-979.63	1,922.59	869.98	803.53	66.45	13.092		
7,500.00	7,314.52	7,692.00	7,315.08	36.62	47.13	-90.26	-984.56	1,922.62	869.98	803.19	66.79	13.026		
7,550.00	7,363.66	7,742.34	7,364.55	36.81	47.27	-90.26	-993.86	1,922.67	869.98	802.78	67.20	12.946		
7,600.00	7,411.80	7,792.68	7,413.00	37.03	47.44	-90.25	-1,007.47	1,922.75	869.98	802.30	67.68	12.855		
7,650.00	7,458.60	7,843.01	7,460.05	37.29	47.64	-90.24	-1,025.27	1,922.86	869.98	801.76	68.22	12.752		
7,700.00	7,503.68	7,893.33	7,505.36	37.57	47.85	-90.23	-1,047.12	1,922.99	869.98	801.15	68.83	12.639		
7,750.00	7,546.72	7,943.63	7,548.56	37.89	48.09	-90.22	-1,072.86	1,923.14	869.98	800.47	69.50	12.517		
7,800.00	7,587.37	7,993.92	7,589.33	38.23	48.35	-90.21	-1,102.27	1,923.32	869.98	799.73	70.24	12.386		
7,850.00	7,625.34	8,044.18	7,627.35	38.59	48.63	-90.19	-1,135.13	1,923.52	869.97	798.94	71.04	12.247		
7,900.00	7,660.33	8,094.43	7,662.32	38.99	48.93	-90.18	-1,171.18	1,923.73	869.97	798.08	71.89	12.101		
7,950.00	7,692.07	8,144.65	7,694.00	39.40	49.24	-90.16	-1,210.13	1,923.97	869.97	797.17	72.80	11.950		
8,000.00	7,720.33	8,194.85	7,722.13	39.85	49.58	-90.14	-1,251.69	1,924.22	869.97	796.21	73.76	11.794		
8,050.00	7,744.88	8,245.02	7,746.50	40.31	49.93	-90.12	-1,295.52	1,924.48	869.97	795.20	74.77	11.635		
8,100.00	7,765.55	8,295.16	7,766.94	40.79	50.30	-90.10	-1,341.29	1,924.75	869.97	794.15	75.82	11.474		
8,150.00	7,782.18	8,345.28	7,783.28	41.30	50.69	-90.08	-1,388.65	1,925.04	869.97	793.06	76.91	11.312		
8,200.00	7,794.63	8,395.36	7,795.43	41.81	51.09	-90.05	-1,437.22	1,925.33	869.97	791.95	78.02	11.151		
8,250.00	7,802.82	8,445.42	7,803.28	42.34	51.50	-90.03	-1,486.64	1,925.62	869.97	790.81	79.15	10.991		
8,300.00	7,806.68	8,495.44	7,806.80	42.88	51.92	-90.01	-1,536.52	1,925.92	869.97	789.67	80.30	10.834		
8,319.29	7,807.00	8,514.73	7,807.00	43.09	52.08	-90.00	-1,555.81	1,926.04	869.97	789.22	80.74	10.774		
8,400.00	7,807.00	8,604.56	7,807.00	43.98	52.87	-90.00	-1,636.52	1,926.52	869.97	787.23	82.74	10.515		
8,500.00	7,807.00	8,695.44	7,807.00	45.12	53.69	-90.00	-1,736.52	1,927.12	869.97	784.92	85.04	10.230		
8,600.00	7,806.99	8,804.56	7,807.00	46.31	54.73	-90.00	-1,836.52	1,927.72	869.96	782.32	87.65	9.926		
8,700.00	7,806.99	8,895.44	7,807.00	47.53	55.64	-90.00	-1,936.51	1,928.32	869.96	779.87	90.10	9.656		
8,800.00	7,806.99	9,004.56	7,807.00	48.78	56.76	-90.00	-2,036.51	1,928.92	869.96	777.12	92.84	9.370		
8,900.00	7,806.99	9,104.56	7,806.99	50.07	57.83	-90.00	-2,136.51	1,929.52	869.96	774.43	95.53	9.107		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	9,204.56	7,806.99	51.38	58.93	-90.00	-2,236.51	1,930.11	869.96	771.69	98.27	8.853		
9,100.00	7,806.98	9,304.56	7,806.99	52.72	60.06	-90.00	-2,336.51	1,930.71	869.96	768.90	101.07	8.608		
9,200.00	7,806.98	9,395.44	7,806.99	54.09	61.12	-90.00	-2,436.50	1,931.31	869.96	766.18	103.78	8.383		
9,300.00	7,806.98	9,504.56	7,806.99	55.48	62.42	-90.00	-2,536.50	1,931.91	869.96	763.17	106.79	8.147		
9,400.00	7,806.97	9,604.56	7,806.99	56.89	63.64	-90.00	-2,636.50	1,932.51	869.96	760.25	109.71	7.930		
9,500.00	7,806.97	9,704.56	7,806.99	58.32	64.89	-90.00	-2,736.50	1,933.11	869.96	757.30	112.66	7.722		
9,600.00	7,806.97	9,804.56	7,806.99	59.77	66.17	-90.00	-2,836.50	1,933.71	869.96	754.31	115.65	7.522		
9,700.00	7,806.97	9,904.56	7,806.99	61.23	67.46	-90.00	-2,936.50	1,934.31	869.96	751.29	118.67	7.331		
9,800.00	7,806.96	10,004.56	7,806.98	62.71	68.78	-90.00	-3,036.49	1,934.91	869.96	748.24	121.72	7.147		
9,900.00	7,806.96	10,104.56	7,806.98	64.21	70.12	-90.00	-3,136.49	1,935.51	869.96	745.16	124.79	6.971		
10,000.00	7,806.96	10,195.44	7,806.98	65.72	71.35	-90.00	-3,236.49	1,936.10	869.96	742.21	127.75	6.810		
10,100.00	7,806.96	10,304.56	7,806.98	67.24	72.86	-90.00	-3,336.49	1,936.70	869.96	738.94	131.01	6.640		
10,200.00	7,806.95	10,404.56	7,806.98	68.78	74.25	-90.00	-3,436.49	1,937.30	869.95	735.80	134.15	6.485		
10,300.00	7,806.95	10,495.44	7,806.98	70.32	75.53	-90.00	-3,536.49	1,937.90	869.95	732.78	137.17	6.342		
10,400.00	7,806.95	10,595.44	7,806.98	71.88	76.96	-90.00	-3,636.48	1,938.50	869.95	729.60	140.35	6.198		
10,500.00	7,806.95	10,704.56	7,806.98	73.45	78.53	-90.00	-3,736.48	1,939.10	869.95	726.26	143.70	6.054		
10,600.00	7,806.95	10,804.56	7,806.98	75.02	79.99	-90.00	-3,836.48	1,939.70	869.95	723.04	146.91	5.922		
10,700.00	7,806.94	10,904.56	7,806.97	76.61	81.45	-90.00	-3,936.48	1,940.30	869.95	719.81	150.14	5.794		
10,800.00	7,806.94	11,004.56	7,806.97	78.20	82.94	-90.00	-4,036.48	1,940.90	869.95	716.57	153.38	5.672		
10,900.00	7,806.94	11,104.56	7,806.97	79.80	84.43	-90.00	-4,136.47	1,941.50	869.95	713.31	156.64	5.554		
11,000.00	7,806.94	11,204.56	7,806.97	81.41	85.93	-90.00	-4,236.47	1,942.09	869.95	710.05	159.90	5.440		
11,100.00	7,806.93	11,304.56	7,806.97	83.02	87.45	-90.00	-4,336.47	1,942.69	869.95	706.76	163.18	5.331		
11,200.00	7,806.93	11,404.56	7,806.97	84.64	88.97	-90.00	-4,436.47	1,943.29	869.95	703.47	166.47	5.226		
11,300.00	7,806.93	11,504.56	7,806.97	86.27	90.50	-90.00	-4,536.47	1,943.89	869.95	700.17	169.78	5.124		
11,400.00	7,806.93	11,604.56	7,806.97	87.90	92.05	-90.00	-4,636.47	1,944.49	869.95	696.86	173.09	5.026		
11,500.00	7,806.92	11,704.56	7,806.97	89.54	93.60	-90.00	-4,736.46	1,945.09	869.95	693.54	176.41	4.931		
11,600.00	7,806.92	11,795.44	7,806.97	91.18	95.02	-90.00	-4,836.46	1,945.69	869.95	690.36	179.58	4.844		
11,700.00	7,806.92	11,895.44	7,806.96	92.83	96.58	-90.00	-4,936.46	1,946.29	869.94	687.03	182.92	4.756		
11,800.00	7,806.92	12,004.56	7,806.96	94.48	98.30	-90.00	-5,036.46	1,946.89	869.94	683.53	186.42	4.667		
11,900.00	7,806.91	12,095.44	7,806.96	96.14	99.74	-90.00	-5,136.46	1,947.49	869.94	680.33	189.61	4.588		
12,000.00	7,806.91	12,204.56	7,806.96	97.80	101.47	-90.00	-5,236.45	1,948.09	869.94	676.82	193.13	4.505		
12,100.00	7,806.91	12,295.44	7,806.96	99.46	102.92	-90.00	-5,336.45	1,948.68	869.94	673.60	196.34	4.431		
12,200.00	7,806.91	12,395.44	7,806.96	101.13	104.52	-90.00	-5,436.45	1,949.28	869.94	670.23	199.71	4.356		
12,300.00	7,806.90	12,504.56	7,806.96	102.80	106.27	-90.00	-5,536.45	1,949.88	869.94	666.70	203.24	4.280		
12,400.00	7,806.90	12,595.44	7,806.96	104.47	107.73	-90.00	-5,636.45	1,950.48	869.94	663.47	206.47	4.213		
12,500.00	7,806.90	12,704.56	7,806.96	106.15	109.49	-90.00	-5,736.45	1,951.08	869.94	659.93	210.01	4.142		
12,600.00	7,806.90	12,795.44	7,806.95	107.83	110.97	-90.00	-5,836.44	1,951.68	869.94	656.69	213.25	4.079		
12,700.00	7,806.89	12,904.56	7,806.95	109.52	112.74	-90.00	-5,936.44	1,952.28	869.94	653.13	216.80	4.013		
12,800.00	7,806.89	13,004.56	7,806.95	111.20	114.37	-90.00	-6,036.44	1,952.88	869.94	649.73	220.21	3.951		
12,900.00	7,806.89	13,104.56	7,806.95	112.89	116.01	-90.00	-6,136.44	1,953.48	869.94	646.32	223.61	3.890		
13,000.00	7,806.89	13,204.56	7,806.95	114.59	117.64	-90.00	-6,236.44	1,954.08	869.94	642.91	227.03	3.832		
13,100.00	7,806.88	13,304.56	7,806.95	116.28	119.29	-90.00	-6,336.43	1,954.67	869.94	639.49	230.44	3.775		
13,200.00	7,806.88	13,404.56	7,806.95	117.98	120.93	-90.00	-6,436.43	1,955.27	869.93	636.07	233.86	3.720		
13,300.00	7,806.88	13,504.56	7,806.95	119.68	122.58	-90.00	-6,536.43	1,955.87	869.93	632.65	237.29	3.666		
13,400.00	7,806.88	13,604.56	7,806.95	121.38	124.24	-90.00	-6,636.43	1,956.47	869.93	629.22	240.71	3.614		
13,500.00	7,806.88	13,704.56	7,806.95	123.08	125.89	-90.00	-6,736.43	1,957.07	869.93	625.79	244.14	3.563		
13,600.00	7,806.87	13,804.56	7,806.94	124.79	127.55	-90.00	-6,836.43	1,957.67	869.93	622.36	247.58	3.514		
13,700.00	7,806.87	13,895.44	7,806.94	126.49	129.07	-90.00	-6,936.42	1,958.27	869.93	619.07	250.86	3.468		
13,800.00	7,806.87	14,004.56	7,806.94	128.20	130.88	-90.00	-7,036.42	1,958.87	869.93	615.48	254.45	3.419		
13,900.00	7,806.87	14,104.56	7,806.94	129.91	132.55	-90.00	-7,136.42	1,959.47	869.93	612.03	257.90	3.373		
14,000.00	7,806.86	14,195.44	7,806.94	131.62	134.07	-90.01	-7,236.42	1,960.07	869.93	608.75	261.18	3.331		
14,100.00	7,806.86	14,304.56	7,806.94	133.34	135.90	-90.01	-7,336.42	1,960.66	869.93	605.14	264.79	3.285		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	14,404.56	7,806.94	135.05	137.58	-90.01	-7,436.42	1,961.26	869.93	601.69	268.24	3.243		
14,300.00	7,806.86	14,504.56	7,806.94	136.77	139.26	-90.01	-7,536.41	1,961.86	869.93	598.23	271.69	3.202		
14,400.00	7,806.85	14,604.56	7,806.94	138.49	140.94	-90.01	-7,636.41	1,962.46	869.93	594.78	275.15	3.162		
14,500.00	7,806.85	14,704.56	7,806.93	140.21	142.62	-90.01	-7,736.41	1,963.06	869.93	591.32	278.61	3.122		
14,600.00	7,806.85	14,804.56	7,806.93	141.93	144.31	-90.01	-7,836.41	1,963.66	869.93	587.86	282.07	3.084		
14,700.00	7,806.85	14,904.56	7,806.93	143.65	146.00	-90.01	-7,936.41	1,964.26	869.93	584.40	285.53	3.047		
14,800.00	7,806.84	15,004.56	7,806.93	145.37	147.69	-90.01	-8,036.40	1,964.86	869.92	580.93	288.99	3.010		
14,900.00	7,806.84	15,104.56	7,806.93	147.10	149.38	-90.01	-8,136.40	1,965.46	869.92	577.47	292.46	2.975		
15,000.00	7,806.84	15,204.56	7,806.93	148.83	151.07	-90.01	-8,236.40	1,966.06	869.92	574.00	295.93	2.940		
15,100.00	7,806.84	15,304.56	7,806.93	150.55	152.77	-90.01	-8,336.40	1,966.65	869.92	570.53	299.40	2.906		
15,200.00	7,806.83	15,404.56	7,806.93	152.28	154.47	-90.01	-8,436.40	1,967.25	869.92	567.05	302.87	2.872		
15,300.00	7,806.83	15,504.56	7,806.93	154.01	156.17	-90.01	-8,536.40	1,967.85	869.92	563.58	306.34	2.840		
15,400.00	7,806.83	15,604.56	7,806.93	155.74	157.87	-90.01	-8,636.39	1,968.45	869.92	560.10	309.82	2.808		
15,500.00	7,806.83	15,704.56	7,806.92	157.47	159.57	-90.01	-8,736.39	1,969.05	869.92	556.63	313.29	2.777		
15,600.00	7,806.82	15,804.56	7,806.92	159.20	161.28	-90.01	-8,836.39	1,969.65	869.92	553.15	316.77	2.746		
15,700.00	7,806.82	15,904.56	7,806.92	160.93	162.98	-90.01	-8,936.39	1,970.25	869.92	549.67	320.25	2.716		
15,800.00	7,806.82	16,004.56	7,806.92	162.67	164.69	-90.01	-9,036.39	1,970.85	869.92	546.19	323.73	2.687		
15,900.00	7,806.82	16,104.56	7,806.92	164.40	166.40	-90.01	-9,136.38	1,971.45	869.92	542.70	327.21	2.659		
16,000.00	7,806.81	16,204.56	7,806.92	166.14	168.11	-90.01	-9,236.38	1,972.05	869.92	539.22	330.70	2.631		
16,100.00	7,806.81	16,295.44	7,806.92	167.87	169.86	-90.01	-9,336.38	1,972.64	869.92	535.89	334.02	2.604		
16,200.00	7,806.81	16,404.56	7,806.92	169.61	171.53	-90.01	-9,436.38	1,973.24	869.92	532.25	337.67	2.576		
16,300.00	7,806.81	16,504.56	7,806.92	171.35	173.24	-90.01	-9,536.38	1,973.84	869.91	528.76	341.16	2.550		
16,400.00	7,806.81	16,595.44	7,806.91	173.09	174.80	-90.01	-9,636.38	1,974.44	869.91	525.43	344.49	2.525		
16,500.00	7,806.80	16,704.56	7,806.91	174.83	176.68	-90.01	-9,736.37	1,975.04	869.91	521.78	348.14	2.499		
16,600.00	7,806.80	16,795.44	7,806.91	176.57	178.24	-90.01	-9,836.37	1,975.64	869.91	518.44	351.47	2.475		
16,700.00	7,806.80	16,904.56	7,806.91	178.31	180.11	-90.01	-9,936.37	1,976.24	869.91	514.79	355.12	2.450		
16,800.00	7,806.80	17,004.56	7,806.91	180.05	181.83	-90.01	-10,036.37	1,976.84	869.91	511.30	358.61	2.426		
16,900.00	7,806.79	17,104.56	7,806.91	181.79	183.55	-90.01	-10,136.37	1,977.44	869.91	507.80	362.11	2.402		
17,000.00	7,806.79	17,204.56	7,806.91	183.53	185.27	-90.01	-10,236.37	1,978.04	869.91	504.31	365.60	2.379		
17,100.00	7,806.79	17,304.56	7,806.91	185.27	187.00	-90.01	-10,336.36	1,978.63	869.91	500.81	369.10	2.357		
17,200.00	7,806.79	17,404.56	7,806.91	187.02	188.72	-90.01	-10,436.36	1,979.23	869.91	497.31	372.60	2.335		
17,300.00	7,806.78	17,504.56	7,806.91	188.76	190.44	-90.01	-10,536.36	1,979.83	869.91	493.81	376.09	2.313		
17,400.00	7,806.78	17,604.56	7,806.90	190.51	192.17	-90.01	-10,636.36	1,980.43	869.91	490.31	379.59	2.292		
17,500.00	7,806.78	17,704.56	7,806.90	192.25	193.90	-90.01	-10,736.36	1,981.03	869.91	486.81	383.09	2.271		
17,600.00	7,806.78	17,804.56	7,806.90	194.00	195.62	-90.01	-10,836.35	1,981.63	869.91	483.31	386.59	2.250		
17,700.00	7,806.77	17,904.56	7,806.90	195.74	197.35	-90.01	-10,936.35	1,982.23	869.91	479.81	390.09	2.230		
17,800.00	7,806.77	18,004.56	7,806.90	197.49	199.08	-90.01	-11,036.35	1,982.83	869.91	476.31	393.60	2.210		
17,870.36	7,806.77	18,065.80	7,806.90	198.72	200.14	-90.01	-11,106.71	1,983.25	869.90	474.00	395.90	2.197		
17,900.00	7,806.77	24,469.00	7,806.89	199.24	311.51	-90.01	-11,133.31	1,983.38	869.88	361.25	508.63	1.710 SF		
17,973.82	7,807.00	18,166.22	7,806.99	200.53	201.87	-90.00	-11,207.12	1,984.08	870.29	470.66	399.63	2.178		
17,974.53	7,807.00	18,166.93	7,806.99	200.55	201.89	-90.00	-11,207.83	1,984.09	870.30	470.64	399.66	2.178		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT CARR 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-33.59	3,179.58	-2,111.89	3,817.05					
100.00	100.00	100.00	100.00	0.13	1.20	-33.59	3,179.58	-2,111.89	3,817.05	3,815.71	1.33	2,864.255		
200.00	200.00	200.00	200.00	0.49	3.49	-33.59	3,179.58	-2,111.89	3,817.05	3,813.07	3.98	958.871		
300.00	300.00	300.00	300.00	0.85	5.57	-33.59	3,179.58	-2,111.89	3,817.05	3,810.63	6.42	594.781		
400.00	400.00	400.00	400.00	1.21	7.61	-33.59	3,179.58	-2,111.89	3,817.05	3,808.23	8.82	432.859		
500.00	500.00	500.00	500.00	1.57	9.64	-33.59	3,179.58	-2,111.89	3,817.05	3,805.84	11.21	340.633		
600.00	600.00	600.00	600.00	1.93	11.66	-33.59	3,179.58	-2,111.89	3,817.05	3,803.46	13.59	280.934		
700.00	700.00	700.00	700.00	2.29	13.68	-33.59	3,179.58	-2,111.89	3,817.05	3,801.08	15.96	239.092		
800.00	800.00	800.00	800.00	2.64	15.70	-33.59	3,179.58	-2,111.89	3,817.05	3,798.71	18.34	208.123		
900.00	900.00	900.00	900.00	3.00	17.71	-33.59	3,179.58	-2,111.89	3,817.05	3,796.33	20.71	184.269		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	19.73	-33.59	3,179.58	-2,111.89	3,817.05	3,793.96	23.09	165.327		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	21.74	-33.59	3,179.58	-2,111.89	3,817.05	3,791.59	25.46	149.921 CC		
1,200.00	1,199.98	1,200.02	1,199.98	4.06	23.76	-166.78	3,179.58	-2,111.89	3,818.75	3,790.93	27.82	137.276 ES		
1,300.00	1,299.84	1,300.16	1,299.84	4.40	25.77	-166.77	3,179.58	-2,111.89	3,823.84	3,793.67	30.17	126.752		
1,400.00	1,399.45	1,400.55	1,399.45	4.74	27.79	-166.76	3,179.58	-2,111.89	3,832.33	3,799.80	32.53	117.820		
1,500.00	1,498.70	1,501.30	1,498.70	5.09	29.82	-166.75	3,179.58	-2,111.89	3,844.19	3,809.30	34.90	110.159		
1,600.00	1,597.47	1,602.53	1,597.47	5.46	31.86	-166.73	3,179.58	-2,111.89	3,859.43	3,822.15	37.28	103.526		
1,700.00	1,695.62	1,704.38	1,695.62	5.85	33.91	-166.71	3,179.58	-2,111.89	3,878.02	3,838.34	39.68	97.737		
1,800.00	1,793.06	1,806.94	1,793.06	6.27	35.97	-166.68	3,179.58	-2,111.89	3,899.94	3,857.84	42.09	92.648		
1,867.07	1,857.94	1,857.94	1,857.94	6.57	37.00	-166.66	3,179.58	-2,111.89	3,916.49	3,873.13	43.36	90.326		
1,900.00	1,889.69	1,889.69	1,889.69	6.72	37.63	-166.69	3,179.58	-2,111.89	3,924.99	3,880.87	44.12	88.969		
2,000.00	1,986.13	1,986.13	1,986.13	7.19	39.57	-166.78	3,179.58	-2,111.89	3,950.79	3,904.37	46.41	85.126		
2,100.00	2,082.57	2,082.57	2,082.57	7.68	41.51	-166.87	3,179.58	-2,111.89	3,976.59	3,927.88	48.71	81.637		
2,200.00	2,179.00	2,179.00	2,179.00	8.18	43.45	-166.95	3,179.58	-2,111.89	4,002.41	3,951.39	51.01	78.458		
2,300.00	2,275.44	2,275.44	2,275.44	8.69	45.39	-167.04	3,179.58	-2,111.89	4,028.23	3,974.91	53.32	75.548		
2,400.00	2,371.88	2,371.88	2,371.88	9.21	47.33	-167.12	3,179.58	-2,111.89	4,054.06	3,998.43	55.63	72.876		
2,500.00	2,468.31	2,468.31	2,468.31	9.74	49.27	-167.20	3,179.58	-2,111.89	4,079.90	4,021.96	57.94	70.413		
2,600.00	2,564.75	2,564.75	2,564.75	10.28	51.21	-167.28	3,179.58	-2,111.89	4,105.75	4,045.50	60.26	68.138		
2,700.00	2,661.19	2,661.19	2,661.19	10.82	53.15	-167.36	3,179.58	-2,111.89	4,131.61	4,069.04	62.57	66.029		
2,800.00	2,757.62	2,757.62	2,757.62	11.37	55.09	-167.44	3,179.58	-2,111.89	4,157.47	4,092.58	64.89	64.069		
2,900.00	2,854.06	2,854.06	2,854.06	11.92	57.03	-167.52	3,179.58	-2,111.89	4,183.34	4,116.13	67.21	62.243		
3,000.00	2,950.50	2,950.50	2,950.50	12.47	58.97	-167.60	3,179.58	-2,111.89	4,209.22	4,139.69	69.53	60.538		
3,100.00	3,046.93	3,046.93	3,046.93	13.03	60.91	-167.68	3,179.58	-2,111.89	4,235.11	4,163.25	71.85	58.942		
3,200.00	3,143.37	3,143.37	3,143.37	13.59	62.85	-167.75	3,179.58	-2,111.89	4,261.00	4,186.82	74.18	57.445		
3,300.00	3,239.81	3,239.81	3,239.81	14.15	64.79	-167.83	3,179.58	-2,111.89	4,286.90	4,210.40	76.50	56.038		
3,400.00	3,336.24	3,336.24	3,336.24	14.72	66.73	-167.90	3,179.58	-2,111.89	4,312.80	4,233.98	78.82	54.715		
3,500.00	3,432.68	3,432.68	3,432.68	15.28	68.67	-167.98	3,179.58	-2,111.89	4,338.72	4,257.57	81.15	53.466		
3,600.00	3,529.12	3,529.12	3,529.12	15.85	70.61	-168.05	3,179.58	-2,111.89	4,364.64	4,281.16	83.47	52.287		
3,700.00	3,625.55	3,625.55	3,625.55	16.42	72.55	-168.12	3,179.58	-2,111.89	4,390.56	4,304.76	85.80	51.171		
3,800.00	3,721.99	3,721.99	3,721.99	16.99	74.49	-168.19	3,179.58	-2,111.89	4,416.49	4,328.36	88.13	50.114		
3,900.00	3,818.43	3,818.43	3,818.43	17.56	76.43	-168.26	3,179.58	-2,111.89	4,442.43	4,351.97	90.46	49.111		
4,000.00	3,914.86	3,914.86	3,914.86	18.14	78.37	-168.33	3,179.58	-2,111.89	4,468.37	4,375.59	92.78	48.159		
4,100.00	4,011.30	4,011.30	4,011.30	18.71	80.31	-168.40	3,179.58	-2,111.89	4,494.32	4,399.21	95.11	47.253		
4,200.00	4,107.74	4,107.74	4,107.74	19.29	82.25	-168.46	3,179.58	-2,111.89	4,520.28	4,422.84	97.44	46.390		
4,300.00	4,204.17	4,204.17	4,204.17	19.86	84.19	-168.53	3,179.58	-2,111.89	4,546.24	4,446.47	99.77	45.567		
4,400.00	4,300.61	4,300.61	4,300.61	20.44	86.13	-168.60	3,179.58	-2,111.89	4,572.21	4,470.11	102.10	44.782		
4,500.00	4,397.05	4,402.95	4,397.05	21.02	88.18	-168.66	3,179.58	-2,111.89	4,598.18	4,493.63	104.55	43.982		
4,600.00	4,493.48	4,506.52	4,493.48	21.59	90.27	-168.73	3,179.58	-2,111.89	4,624.16	4,517.14	107.02	43.208		
4,700.00	4,589.92	4,589.92	4,589.92	22.17	91.94	-168.79	3,179.58	-2,111.89	4,650.15	4,541.06	109.09	42.627		
4,800.00	4,686.36	4,686.36	4,686.36	22.75	93.88	-168.85	3,179.58	-2,111.89	4,676.13	4,564.71	111.42	41.969		
4,900.00	4,782.79	4,782.79	4,782.79	23.33	95.82	-168.91	3,179.58	-2,111.89	4,702.13	4,588.38	113.75	41.337		
5,000.00	4,879.23	4,879.23	4,879.23	23.91	97.76	-168.98	3,179.58	-2,111.89	4,728.13	4,612.05	116.08	40.731		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,975.67	4,975.67	24.49	99.70	-169.04	3,179.58	-2,111.89	4,754.13	4,635.72	118.41	40.149		
5,200.00	5,072.10	5,072.10	5,072.10	25.07	101.64	-169.10	3,179.58	-2,111.89	4,780.14	4,659.40	120.74	39.589		
5,300.00	5,168.54	5,168.54	5,168.54	25.66	103.58	-169.16	3,179.58	-2,111.89	4,806.16	4,683.08	123.07	39.051		
5,400.00	5,264.98	5,264.98	5,264.98	26.24	105.52	-169.22	3,179.58	-2,111.89	4,832.18	4,706.77	125.41	38.532		
5,500.00	5,361.41	5,361.41	5,361.41	26.82	107.46	-169.27	3,179.58	-2,111.89	4,858.20	4,730.46	127.74	38.033		
5,600.00	5,457.85	5,457.85	5,457.85	27.40	109.40	-169.33	3,179.58	-2,111.89	4,884.23	4,754.16	130.07	37.551		
5,700.00	5,554.29	5,554.29	5,554.29	27.99	111.34	-169.39	3,179.58	-2,111.89	4,910.26	4,777.86	132.40	37.086		
5,800.00	5,650.72	5,650.72	5,650.72	28.57	113.28	-169.44	3,179.58	-2,111.89	4,936.30	4,801.57	134.73	36.638		
5,900.00	5,747.16	5,747.16	5,747.16	29.15	115.22	-169.50	3,179.58	-2,111.89	4,962.34	4,825.28	137.06	36.204		
6,000.00	5,843.60	5,843.60	5,843.60	29.74	117.16	-169.56	3,179.58	-2,111.89	4,988.39	4,848.99	139.40	35.786		
6,100.00	5,940.03	5,940.03	5,940.03	30.32	119.10	-169.61	3,179.58	-2,111.89	5,014.44	4,872.71	141.73	35.380		
6,200.00	6,036.47	6,036.47	6,036.47	30.90	121.04	-169.67	3,179.58	-2,111.89	5,040.49	4,896.43	144.06	34.989		
6,300.00	6,132.91	6,132.91	6,132.91	31.49	122.97	-169.72	3,179.58	-2,111.89	5,066.55	4,920.16	146.39	34.609		
6,400.00	6,229.34	6,229.34	6,229.34	32.07	124.91	-169.77	3,179.58	-2,111.89	5,092.62	4,943.89	148.73	34.242		
6,500.00	6,325.78	6,325.78	6,325.78	32.66	126.85	-169.82	3,179.58	-2,111.89	5,118.68	4,967.62	151.06	33.885		
6,552.14	6,376.06	6,376.06	6,376.06	32.96	127.86	-169.85	3,179.58	-2,111.89	5,132.28	4,980.00	152.28	33.704		
6,600.00	6,422.32	6,422.32	6,422.32	33.24	128.79	-169.92	3,179.58	-2,111.89	5,144.37	4,990.98	153.39	33.537		
6,700.00	6,519.60	6,519.60	6,519.60	33.78	130.75	-170.05	3,179.58	-2,111.89	5,167.19	5,011.45	155.73	33.179		
6,800.00	6,617.63	6,617.63	6,617.63	34.27	132.72	-170.15	3,179.58	-2,111.89	5,186.64	5,028.56	158.08	32.809		
6,900.00	6,716.28	6,716.28	6,716.28	34.72	134.71	-170.24	3,179.58	-2,111.89	5,202.72	5,042.28	160.44	32.428		
7,000.00	6,815.45	6,815.45	6,815.45	35.13	136.70	-170.30	3,179.58	-2,111.89	5,215.39	5,052.59	162.79	32.037		
7,100.00	6,915.00	6,915.00	6,915.00	35.49	138.70	-170.35	3,179.58	-2,111.89	5,224.64	5,059.49	165.14	31.637		
7,200.00	7,014.82	7,014.82	7,014.82	35.81	140.71	-170.38	3,179.58	-2,111.89	5,230.46	5,062.96	167.49	31.228		
7,300.00	7,114.79	7,114.79	7,114.79	36.09	142.72	-170.40	3,179.58	-2,111.89	5,232.84	5,063.01	169.83	30.812		
7,319.21	7,134.00	7,134.00	7,134.00	36.14	143.11	-37.21	3,179.58	-2,111.89	5,232.90	5,062.62	170.28	30.732		
7,400.00	7,214.79	7,214.79	7,214.79	36.33	144.73	-37.21	3,179.58	-2,111.89	5,232.90	5,060.75	172.15	30.398		
7,419.21	7,234.00	7,234.00	7,234.00	36.37	145.12	-37.21	3,179.58	-2,111.89	5,232.90	5,060.31	172.59	30.319		
7,450.00	7,264.77	7,264.77	7,264.77	36.46	145.74	143.10	3,179.58	-2,111.89	5,233.56	5,060.25	173.31	30.198		
7,500.00	7,314.52	7,314.52	7,314.52	36.62	146.74	142.90	3,179.58	-2,111.89	5,237.45	5,062.98	174.47	30.019		
7,550.00	7,363.66	7,363.66	7,363.66	36.81	147.73	142.51	3,179.58	-2,111.89	5,244.80	5,069.17	175.63	29.863		
7,600.00	7,411.80	7,411.80	7,411.80	37.03	148.69	141.92	3,179.58	-2,111.89	5,255.56	5,078.79	176.77	29.731		
7,650.00	7,458.60	7,458.60	7,458.60	37.29	149.63	141.12	3,179.58	-2,111.89	5,269.66	5,091.77	177.88	29.624		
7,700.00	7,503.68	7,503.68	7,503.68	37.57	150.54	140.09	3,179.58	-2,111.89	5,287.00	5,108.04	178.96	29.543		
7,750.00	7,546.72	7,546.72	7,546.72	37.89	151.41	138.80	3,179.58	-2,111.89	5,307.48	5,127.49	179.99	29.487		
7,800.00	7,587.37	7,587.37	7,587.37	38.23	152.22	137.21	3,179.58	-2,111.89	5,330.96	5,149.99	180.97	29.458		
7,850.00	7,625.34	7,625.34	7,625.34	38.59	152.99	135.28	3,179.58	-2,111.89	5,357.27	5,175.39	181.88	29.455 SF		
7,900.00	7,660.33	7,660.33	7,660.33	38.99	153.69	132.97	3,179.58	-2,111.89	5,386.23	5,203.51	182.73	29.477		
7,950.00	7,692.07	7,707.93	7,692.07	39.40	154.65	130.19	3,179.58	-2,111.89	5,417.65	5,233.84	183.81	29.474		
8,000.00	7,720.33	7,720.33	7,720.33	39.85	154.90	126.89	3,179.58	-2,111.89	5,451.31	5,267.13	184.18	29.598		
8,050.00	7,744.88	7,744.88	7,744.88	40.31	155.39	122.99	3,179.58	-2,111.89	5,486.96	5,302.19	184.77	29.696		
8,100.00	7,765.55	7,765.55	7,765.55	40.79	155.81	118.40	3,179.58	-2,111.89	5,524.34	5,339.07	185.27	29.817		
8,150.00	7,782.18	7,782.18	7,782.18	41.30	156.14	113.07	3,179.58	-2,111.89	5,563.19	5,377.52	185.68	29.962		
8,200.00	7,794.63	7,805.37	7,794.63	41.81	156.61	106.99	3,179.58	-2,111.89	5,603.22	5,417.03	186.20	30.093		
8,250.00	7,802.82	7,802.82	7,802.82	42.34	156.56	100.21	3,179.58	-2,111.89	5,644.13	5,457.95	186.18	30.315		
8,300.00	7,806.68	7,806.68	7,806.68	42.88	156.63	92.91	3,179.58	-2,111.89	5,685.62	5,499.33	186.29	30.521		
8,319.29	7,807.00	7,807.00	7,807.00	43.09	156.64	90.00	3,179.58	-2,111.89	5,701.71	5,515.41	186.30	30.605		
8,400.00	7,807.00	7,807.00	7,807.00	43.98	156.64	90.00	3,179.58	-2,111.89	5,769.25	5,582.93	186.32	30.964		
8,500.00	7,807.00	7,807.00	7,807.00	45.12	156.64	90.00	3,179.58	-2,111.89	5,853.40	5,667.04	186.36	31.409		
8,600.00	7,806.99	7,806.99	7,806.99	46.31	156.64	90.00	3,179.58	-2,111.89	5,938.04	5,751.63	186.41	31.854		
8,700.00	7,806.99	7,806.99	7,806.99	47.53	156.64	90.00	3,179.58	-2,111.89	6,023.15	5,836.67	186.48	32.299		
8,800.00	7,806.99	7,806.99	7,806.99	48.78	156.64	90.00	3,179.58	-2,111.89	6,108.72	5,922.16	186.56	32.744		
8,900.00	7,806.99	7,806.99	7,806.99	50.07	156.64	90.00	3,179.58	-2,111.89	6,194.71	6,008.07	186.65	33.190		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT CARR 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.98	7,806.98	7,806.98	51.38	156.64	90.00	3,179.58	-2,111.89	6,281.12	6,094.38	186.74	33.635		
9,100.00	7,806.98	7,806.98	7,806.98	52.72	156.64	90.00	3,179.58	-2,111.89	6,367.93	6,181.08	186.85	34.081		
9,200.00	7,806.98	7,806.98	7,806.98	54.09	156.64	90.00	3,179.58	-2,111.89	6,455.12	6,268.16	186.96	34.526		
9,300.00	7,806.98	7,806.98	7,806.98	55.48	156.64	90.00	3,179.58	-2,111.89	6,542.68	6,355.60	187.08	34.972		
9,400.00	7,806.97	7,806.97	7,806.97	56.89	156.64	90.00	3,179.58	-2,111.89	6,630.59	6,443.38	187.21	35.418		
9,500.00	7,806.97	7,806.97	7,806.97	58.32	156.64	90.00	3,179.58	-2,111.89	6,718.83	6,531.49	187.34	35.864		
9,600.00	7,806.97	7,806.97	7,806.97	59.77	156.64	90.00	3,179.58	-2,111.89	6,807.41	6,619.93	187.48	36.311		
9,700.00	7,806.97	7,806.97	7,806.97	61.23	156.64	90.00	3,179.58	-2,111.89	6,896.29	6,708.67	187.62	36.757		
9,800.00	7,806.96	7,806.96	7,806.96	62.71	156.64	90.00	3,179.58	-2,111.89	6,985.48	6,797.71	187.76	37.204		
9,900.00	7,806.96	7,806.96	7,806.96	64.21	156.64	90.00	3,179.58	-2,111.89	7,074.95	6,887.04	187.91	37.651		
10,000.00	7,806.96	7,806.96	7,806.96	65.72	156.64	90.00	3,179.58	-2,111.89	7,164.70	6,976.64	188.06	38.098		
10,100.00	7,806.96	7,806.96	7,806.96	67.24	156.64	90.00	3,179.58	-2,111.89	7,254.72	7,066.51	188.21	38.545		
10,200.00	7,806.95	7,806.95	7,806.95	68.78	156.64	90.00	3,179.58	-2,111.89	7,345.00	7,156.63	188.37	38.993		
10,300.00	7,806.95	7,806.95	7,806.95	70.32	156.64	90.00	3,179.58	-2,111.89	7,435.53	7,247.00	188.53	39.440		
10,400.00	7,806.95	7,806.95	7,806.95	71.88	156.64	90.00	3,179.58	-2,111.89	7,526.30	7,337.61	188.69	39.888		
10,500.00	7,806.95	7,806.95	7,806.95	73.45	156.64	90.00	3,179.58	-2,111.89	7,617.30	7,428.45	188.85	40.336		
10,600.00	7,806.95	7,806.95	7,806.95	75.02	156.64	90.00	3,179.58	-2,111.89	7,708.52	7,519.51	189.01	40.784		
10,700.00	7,806.94	7,806.94	7,806.94	76.61	156.64	90.00	3,179.58	-2,111.89	7,799.95	7,610.78	189.17	41.232		
10,800.00	7,806.94	7,806.94	7,806.94	78.20	156.64	90.00	3,179.58	-2,111.89	7,891.60	7,702.27	189.33	41.681		
10,900.00	7,806.94	7,806.94	7,806.94	79.80	156.64	90.00	3,179.58	-2,111.89	7,983.44	7,793.95	189.50	42.130		
11,000.00	7,806.94	7,806.94	7,806.94	81.41	156.64	90.00	3,179.58	-2,111.89	8,075.48	7,885.82	189.66	42.579		
11,100.00	7,806.93	7,806.93	7,806.93	83.02	156.64	90.00	3,179.58	-2,111.89	8,167.71	7,977.88	189.82	43.028		
11,200.00	7,806.93	7,806.93	7,806.93	84.64	156.64	90.00	3,179.58	-2,111.89	8,260.12	8,070.13	189.99	43.477		
11,300.00	7,806.93	7,806.93	7,806.93	86.27	156.64	90.00	3,179.58	-2,111.89	8,352.70	8,162.54	190.15	43.926		
11,400.00	7,806.93	7,806.93	7,806.93	87.90	156.64	90.00	3,179.58	-2,111.89	8,445.45	8,255.13	190.32	44.376		
11,500.00	7,806.92	7,806.92	7,806.92	89.54	156.64	90.00	3,179.58	-2,111.89	8,538.36	8,347.88	190.48	44.825		
11,600.00	7,806.92	7,806.92	7,806.92	91.18	156.64	90.00	3,179.58	-2,111.89	8,631.44	8,440.79	190.64	45.275		
11,700.00	7,806.92	7,806.92	7,806.92	92.83	156.64	90.00	3,179.58	-2,111.89	8,724.66	8,533.85	190.81	45.725		
11,800.00	7,806.92	7,806.92	7,806.92	94.48	156.64	90.00	3,179.58	-2,111.89	8,818.04	8,627.07	190.97	46.175		
11,900.00	7,806.91	7,806.91	7,806.91	96.14	156.64	90.00	3,179.58	-2,111.89	8,911.56	8,720.42	191.13	46.625		
12,000.00	7,806.91	7,806.91	7,806.91	97.80	156.64	90.00	3,179.58	-2,111.89	9,005.21	8,813.92	191.29	47.075		
12,100.00	7,806.91	7,806.91	7,806.91	99.46	156.64	90.00	3,179.58	-2,111.89	9,099.01	8,907.55	191.46	47.525		
12,200.00	7,806.91	7,806.91	7,806.91	101.13	156.64	90.00	3,179.58	-2,111.89	9,192.93	9,001.31	191.62	47.976		
12,300.00	7,806.90	7,806.90	7,806.90	102.80	156.64	90.00	3,179.58	-2,111.89	9,286.98	9,095.21	191.78	48.426		
12,400.00	7,806.90	7,806.90	7,806.90	104.47	156.64	90.00	3,179.58	-2,111.89	9,381.15	9,189.22	191.93	48.877		
12,500.00	7,806.90	7,806.90	7,806.90	106.15	156.64	90.00	3,179.58	-2,111.89	9,475.45	9,283.35	192.09	49.327		
12,600.00	7,806.90	7,806.90	7,806.90	107.83	156.64	90.00	3,179.58	-2,111.89	9,569.86	9,377.61	192.25	49.778		
12,700.00	7,806.89	7,806.89	7,806.89	109.52	156.64	90.00	3,179.58	-2,111.89	9,664.38	9,471.97	192.41	50.229		
12,800.00	7,806.89	7,806.89	7,806.89	111.20	156.64	90.00	3,179.58	-2,111.89	9,759.01	9,566.45	192.56	50.680		
12,900.00	7,806.89	7,806.89	7,806.89	112.89	156.64	90.00	3,179.58	-2,111.89	9,853.74	9,661.03	192.72	51.130		
13,000.00	7,806.89	7,806.89	7,806.89	114.59	156.64	90.00	3,179.58	-2,111.89	9,948.58	9,755.71	192.87	51.581		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	13.75	881.29	215.58	907.27					
100.00	100.00	119.00	119.00	0.13	1.56	13.75	881.29	215.58	907.27	905.58	1.69	536.457		
200.00	200.00	219.00	219.00	0.49	3.82	13.75	881.29	215.58	907.27	902.96	4.31	210.306		
300.00	300.00	319.00	319.00	0.85	5.89	13.75	881.29	215.58	907.27	900.52	6.75	134.508		
400.00	400.00	419.00	419.00	1.21	7.93	13.75	881.29	215.58	907.27	898.13	9.14	99.225		
500.00	500.00	519.00	519.00	1.57	9.96	13.75	881.29	215.58	907.27	895.74	11.53	78.688		
600.00	600.00	619.00	619.00	1.93	11.98	13.75	881.29	215.58	907.27	893.36	13.91	65.222		
700.00	700.00	719.00	719.00	2.29	14.00	13.75	881.29	215.58	907.27	890.98	16.29	55.702		
800.00	800.00	819.00	819.00	2.64	16.02	13.75	881.29	215.58	907.27	888.61	18.66	48.613		
900.00	900.00	919.00	919.00	3.00	18.04	13.75	881.29	215.58	907.27	886.23	21.04	43.127		
1,000.00	1,000.00	1,019.00	1,019.00	3.36	20.05	13.75	881.29	215.58	907.27	883.86	23.41	38.755		
1,100.00	1,100.00	1,119.00	1,119.00	3.72	22.06	13.75	881.29	215.58	907.27	881.49	25.78	35.189 CC		
1,200.00	1,199.98	1,218.98	1,218.98	4.06	24.08	-119.52	881.29	215.58	908.13	879.99	28.14	32.272 ES		
1,300.00	1,299.84	1,318.84	1,318.84	4.40	26.09	-119.76	881.29	215.58	910.72	880.24	30.48	29.875		
1,400.00	1,399.45	1,418.45	1,418.45	4.74	28.09	-120.16	881.29	215.58	915.09	882.25	32.83	27.872		
1,500.00	1,498.70	1,517.70	1,517.70	5.09	30.09	-120.70	881.29	215.58	921.29	886.11	35.18	26.188		
1,600.00	1,597.47	1,616.47	1,616.47	5.46	32.08	-121.39	881.29	215.58	929.44	891.90	37.53	24.765		
1,700.00	1,695.62	1,714.62	1,714.62	5.85	34.05	-122.19	881.29	215.58	939.62	899.74	39.88	23.559		
1,800.00	1,793.06	1,812.06	1,812.06	6.27	36.01	-123.11	881.29	215.58	951.99	909.75	42.24	22.538		
1,867.07	1,857.94	1,876.94	1,876.94	6.57	37.32	-123.78	881.29	215.58	961.56	917.74	43.82	21.943		
1,900.00	1,889.69	1,908.69	1,908.69	6.72	37.96	-124.20	881.29	215.58	966.56	921.96	44.60	21.673		
2,000.00	1,986.13	2,005.13	2,005.13	7.19	39.90	-125.44	881.29	215.58	982.03	935.07	46.96	20.911		
2,100.00	2,082.57	2,101.57	2,101.57	7.68	41.84	-126.65	881.29	215.58	997.97	948.64	49.33	20.229		
2,200.00	2,179.00	2,202.00	2,198.00	8.18	43.86	-127.83	881.29	215.58	1,014.35	962.56	51.79	19.586		
2,300.00	2,275.44	2,305.56	2,294.44	8.69	45.94	-128.96	881.29	215.58	1,031.15	976.84	54.31	18.986		
2,400.00	2,371.88	2,409.12	2,390.88	9.21	48.02	-130.06	881.29	215.58	1,048.34	991.51	56.83	18.446		
2,500.00	2,468.31	2,487.31	2,487.31	9.74	49.60	-131.13	881.29	215.58	1,065.92	1,007.07	58.85	18.114		
2,600.00	2,564.75	2,583.75	2,583.75	10.28	51.54	-132.16	881.29	215.58	1,083.86	1,022.63	61.22	17.703		
2,700.00	2,661.19	2,680.19	2,680.19	10.82	53.48	-133.16	881.29	215.58	1,102.13	1,038.53	63.60	17.329		
2,800.00	2,757.62	2,776.62	2,776.62	11.37	55.42	-134.13	881.29	215.58	1,120.74	1,054.76	65.98	16.987		
2,900.00	2,854.06	2,873.06	2,873.06	11.92	57.35	-135.07	881.29	215.58	1,139.66	1,071.31	68.35	16.673		
3,000.00	2,950.50	2,969.50	2,969.50	12.47	59.29	-135.98	881.29	215.58	1,158.87	1,088.15	70.72	16.386		
3,100.00	3,046.93	3,065.93	3,065.93	13.03	61.23	-136.86	881.29	215.58	1,178.36	1,105.27	73.09	16.121		
3,200.00	3,143.37	3,162.37	3,162.37	13.59	63.17	-137.71	881.29	215.58	1,198.12	1,122.66	75.46	15.877		
3,300.00	3,239.81	3,258.81	3,258.81	14.15	65.11	-138.53	881.29	215.58	1,218.13	1,140.31	77.83	15.652		
3,400.00	3,336.24	3,355.24	3,355.24	14.72	67.05	-139.33	881.29	215.58	1,238.39	1,158.20	80.19	15.444		
3,500.00	3,432.68	3,451.68	3,451.68	15.28	68.99	-140.10	881.29	215.58	1,258.88	1,176.33	82.55	15.250		
3,600.00	3,529.12	3,548.12	3,548.12	15.85	70.93	-140.85	881.29	215.58	1,279.58	1,194.67	84.91	15.071		
3,700.00	3,625.55	3,644.55	3,644.55	16.42	72.87	-141.58	881.29	215.58	1,300.49	1,213.23	87.26	14.903		
3,800.00	3,721.99	3,740.99	3,740.99	16.99	74.81	-142.28	881.29	215.58	1,321.61	1,231.99	89.62	14.748		
3,900.00	3,818.43	3,837.43	3,837.43	17.56	76.75	-142.97	881.29	215.58	1,342.91	1,250.94	91.97	14.602		
4,000.00	3,914.86	3,933.86	3,933.86	18.14	78.69	-143.63	881.29	215.58	1,364.39	1,270.07	94.32	14.466		
4,100.00	4,011.30	4,030.30	4,030.30	18.71	80.63	-144.27	881.29	215.58	1,386.04	1,289.38	96.66	14.339		
4,200.00	4,107.74	4,126.74	4,126.74	19.29	82.57	-144.89	881.29	215.58	1,407.86	1,308.85	99.01	14.219		
4,300.00	4,204.17	4,223.17	4,223.17	19.86	84.51	-145.49	881.29	215.58	1,429.84	1,328.48	101.35	14.107		
4,400.00	4,300.61	4,319.61	4,319.61	20.44	86.45	-146.08	881.29	215.58	1,451.96	1,348.26	103.70	14.002		
4,500.00	4,397.05	4,416.05	4,416.05	21.02	88.39	-146.64	881.29	215.58	1,474.23	1,368.19	106.04	13.903		
4,600.00	4,493.48	4,512.48	4,512.48	21.59	90.33	-147.20	881.29	215.58	1,496.63	1,388.25	108.38	13.809		
4,700.00	4,589.92	4,608.92	4,608.92	22.17	92.27	-147.73	881.29	215.58	1,519.17	1,408.45	110.72	13.721		
4,800.00	4,686.36	4,705.36	4,705.36	22.75	94.21	-148.25	881.29	215.58	1,541.82	1,428.77	113.05	13.638		
4,900.00	4,782.79	4,801.79	4,801.79	23.33	96.15	-148.76	881.29	215.58	1,564.60	1,449.21	115.39	13.559		
5,000.00	4,879.23	4,901.77	4,898.23	23.91	98.16	-149.25	881.29	215.58	1,587.49	1,469.70	117.80	13.476		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,005.33	4,994.67	24.49	100.24	-149.72	881.29	215.58	1,610.50	1,490.22	120.27	13.390		
5,200.00	5,072.10	5,108.90	5,091.10	25.07	102.32	-150.19	881.29	215.58	1,633.60	1,510.85	122.75	13.308		
5,300.00	5,168.54	5,187.54	5,187.54	25.66	103.90	-150.64	881.29	215.58	1,656.81	1,532.08	124.73	13.284		
5,400.00	5,264.98	5,283.98	5,283.98	26.24	105.84	-151.08	881.29	215.58	1,680.11	1,553.05	127.06	13.223		
5,500.00	5,361.41	5,380.41	5,380.41	26.82	107.78	-151.50	881.29	215.58	1,703.50	1,574.11	129.39	13.166		
5,600.00	5,457.85	5,476.85	5,476.85	27.40	109.72	-151.92	881.29	215.58	1,726.99	1,595.27	131.72	13.111		
5,700.00	5,554.29	5,573.29	5,573.29	27.99	111.66	-152.32	881.29	215.58	1,750.55	1,616.51	134.05	13.059		
5,800.00	5,650.72	5,669.72	5,669.72	28.57	113.60	-152.72	881.29	215.58	1,774.20	1,637.83	136.38	13.009		
5,900.00	5,747.16	5,766.16	5,766.16	29.15	115.54	-153.10	881.29	215.58	1,797.93	1,659.22	138.71	12.962		
6,000.00	5,843.60	5,862.60	5,862.60	29.74	117.48	-153.47	881.29	215.58	1,821.73	1,680.70	141.03	12.917		
6,100.00	5,940.03	5,959.03	5,959.03	30.32	119.42	-153.84	881.29	215.58	1,845.61	1,702.25	143.36	12.874		
6,200.00	6,036.47	6,055.47	6,055.47	30.90	121.36	-154.19	881.29	215.58	1,869.55	1,723.86	145.69	12.832		
6,300.00	6,132.91	6,151.91	6,151.91	31.49	123.30	-154.54	881.29	215.58	1,893.56	1,745.55	148.02	12.793		
6,400.00	6,229.34	6,248.34	6,248.34	32.07	125.24	-154.88	881.29	215.58	1,917.64	1,767.30	150.34	12.755		
6,500.00	6,325.78	6,344.78	6,344.78	32.66	127.18	-155.21	881.29	215.58	1,941.78	1,789.11	152.67	12.719		
6,552.14	6,376.06	6,404.94	6,395.06	32.96	128.39	-155.38	881.29	215.58	1,954.39	1,800.31	154.08	12.684		
6,600.00	6,422.32	6,441.32	6,441.32	33.24	129.12	-155.62	881.29	215.58	1,965.62	1,810.62	155.00	12.682		
6,700.00	6,519.60	6,538.60	6,538.60	33.78	131.07	-156.07	881.29	215.58	1,986.84	1,829.51	157.33	12.629		
6,800.00	6,617.63	6,636.63	6,636.63	34.27	133.04	-156.45	881.29	215.58	2,004.96	1,845.29	159.67	12.557		
6,900.00	6,716.28	6,735.28	6,735.28	34.72	135.03	-156.75	881.29	215.58	2,019.96	1,857.95	162.01	12.468		
7,000.00	6,815.45	6,834.45	6,834.45	35.13	137.02	-156.99	881.29	215.58	2,031.79	1,867.44	164.35	12.362		
7,100.00	6,915.00	6,934.00	6,934.00	35.49	139.02	-157.16	881.29	215.58	2,040.44	1,873.75	166.69	12.241		
7,200.00	7,014.82	7,033.82	7,033.82	35.81	141.03	-157.26	881.29	215.58	2,045.88	1,876.86	169.02	12.104		
7,300.00	7,114.79	7,133.79	7,133.79	36.09	143.04	-157.31	881.29	215.58	2,048.11	1,876.76	171.35	11.953		
7,319.21	7,134.00	7,153.00	7,153.00	36.14	143.43	-24.12	881.29	215.58	2,048.17	1,876.37	171.79	11.922		
7,400.00	7,214.79	7,233.79	7,233.79	36.33	145.05	-24.12	881.29	215.58	2,048.17	1,874.51	173.66	11.794		
7,419.21	7,234.00	7,253.00	7,253.00	36.37	145.44	-24.12	881.29	215.58	2,048.17	1,874.07	174.10	11.764		
7,450.00	7,264.77	7,283.77	7,283.77	36.46	146.06	156.20	881.29	215.58	2,048.93	1,874.11	174.81	11.721		
7,500.00	7,314.52	7,333.52	7,333.52	36.62	147.06	156.07	881.29	215.58	2,053.37	1,877.40	175.97	11.669		
7,550.00	7,363.66	7,382.66	7,382.66	36.81	148.05	155.83	881.29	215.58	2,061.78	1,884.65	177.13	11.640		
7,600.00	7,411.80	7,430.80	7,430.80	37.03	149.02	155.46	881.29	215.58	2,074.08	1,895.82	178.26	11.635 SF		
7,650.00	7,458.60	7,477.60	7,477.60	37.29	149.96	154.94	881.29	215.58	2,090.21	1,910.84	179.37	11.653		
7,700.00	7,503.68	7,522.68	7,522.68	37.57	150.86	154.26	881.29	215.58	2,110.05	1,929.60	180.45	11.693		
7,750.00	7,546.72	7,565.72	7,565.72	37.89	151.73	153.39	881.29	215.58	2,133.47	1,952.00	181.48	11.756		
7,800.00	7,587.37	7,606.37	7,606.37	38.23	152.55	152.28	881.29	215.58	2,160.32	1,977.87	182.45	11.841		
7,850.00	7,625.34	7,644.34	7,644.34	38.59	153.31	150.87	881.29	215.58	2,190.39	2,007.04	183.36	11.946		
7,900.00	7,660.33	7,679.33	7,679.33	38.99	154.01	149.09	881.29	215.58	2,223.50	2,039.30	184.19	12.071		
7,950.00	7,692.07	7,711.07	7,711.07	39.40	154.65	146.83	881.29	215.58	2,259.39	2,074.44	184.95	12.216		
8,000.00	7,720.33	7,739.33	7,739.33	39.85	155.22	143.93	881.29	215.58	2,297.82	2,112.20	185.62	12.379		
8,050.00	7,744.88	7,763.88	7,763.88	40.31	155.71	140.19	881.29	215.58	2,338.50	2,152.30	186.20	12.559		
8,100.00	7,765.55	7,784.55	7,784.55	40.79	156.13	135.28	881.29	215.58	2,381.13	2,194.44	186.69	12.755		
8,150.00	7,782.18	7,801.18	7,801.18	41.30	156.46	128.80	881.29	215.58	2,425.40	2,238.33	187.07	12.965		
8,200.00	7,794.63	7,813.63	7,813.63	41.81	156.71	120.23	881.29	215.58	2,470.97	2,283.62	187.35	13.189		
8,250.00	7,802.82	7,821.82	7,821.82	42.34	156.88	109.15	881.29	215.58	2,517.50	2,329.97	187.53	13.425		
8,300.00	7,806.68	7,825.68	7,825.68	42.88	156.96	95.65	881.29	215.58	2,564.62	2,377.02	187.60	13.670		
8,319.29	7,807.00	7,826.00	7,826.00	43.09	156.96	90.00	881.29	215.58	2,582.89	2,395.29	187.61	13.768		
8,400.00	7,807.00	7,826.00	7,826.00	43.98	156.96	90.00	881.29	215.58	2,659.49	2,471.91	187.58	14.178		
8,500.00	7,807.00	7,826.00	7,826.00	45.12	156.96	90.00	881.29	215.58	2,754.72	2,567.17	187.55	14.688		
8,600.00	7,806.99	7,825.99	7,825.99	46.31	156.96	90.00	881.29	215.58	2,850.28	2,662.75	187.53	15.199		
8,700.00	7,806.99	7,825.99	7,825.99	47.53	156.96	90.00	881.29	215.58	2,946.13	2,758.62	187.51	15.711		
8,800.00	7,806.99	7,825.99	7,825.99	48.78	156.96	90.00	881.29	215.58	3,042.25	2,854.75	187.50	16.225		
8,900.00	7,806.99	7,825.99	7,825.99	50.07	156.96	89.99	881.29	215.58	3,138.61	2,951.13	187.49	16.740		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		Highside Toolface (°)	Distance		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)						
9,000.00	7,806.98	7,825.98	7,825.98	51.38	156.96	89.99	881.29	215.58	3,235.20	3,047.72	187.48	17.256		
9,100.00	7,806.98	7,825.98	7,825.98	52.72	156.96	89.99	881.29	215.58	3,331.98	3,144.51	187.48	17.773		
9,200.00	7,806.98	7,825.98	7,825.98	54.09	156.96	89.99	881.29	215.58	3,428.95	3,241.48	187.47	18.290		
9,300.00	7,806.98	7,825.98	7,825.98	55.48	156.96	89.99	881.29	215.58	3,526.09	3,338.62	187.47	18.808		
9,400.00	7,806.97	7,825.97	7,825.97	56.89	156.96	89.99	881.29	215.58	3,623.38	3,435.91	187.48	19.327		
9,500.00	7,806.97	7,825.97	7,825.97	58.32	156.96	89.99	881.29	215.58	3,720.82	3,533.34	187.48	19.846		
9,600.00	7,806.97	7,825.97	7,825.97	59.77	156.96	89.99	881.29	215.58	3,818.39	3,630.90	187.49	20.366		
9,700.00	7,806.97	7,825.97	7,825.97	61.23	156.96	89.99	881.29	215.58	3,916.08	3,728.59	187.50	20.886		
9,800.00	7,806.96	7,825.96	7,825.96	62.71	156.96	89.99	881.29	215.58	4,013.89	3,826.38	187.51	21.406		
9,900.00	7,806.96	7,825.96	7,825.96	64.21	156.96	89.99	881.29	215.58	4,111.80	3,924.28	187.52	21.927		
10,000.00	7,806.96	7,825.96	7,825.96	65.72	156.96	89.99	881.29	215.58	4,209.81	4,022.28	187.54	22.448		
10,100.00	7,806.96	7,825.96	7,825.96	67.24	156.96	89.99	881.29	215.58	4,307.92	4,120.36	187.55	22.969		
10,200.00	7,806.95	7,825.95	7,825.95	68.78	156.96	89.99	881.29	215.58	4,406.10	4,218.53	187.57	23.490		
10,300.00	7,806.95	7,825.95	7,825.95	70.32	156.96	89.99	881.29	215.58	4,504.37	4,316.78	187.59	24.012		
10,400.00	7,806.95	7,825.95	7,825.95	71.88	156.96	89.99	881.29	215.58	4,602.71	4,415.10	187.61	24.533		
10,500.00	7,806.95	7,825.95	7,825.95	73.45	156.96	89.99	881.29	215.58	4,701.12	4,513.49	187.64	25.055		
10,600.00	7,806.95	7,825.95	7,825.95	75.02	156.96	89.99	881.29	215.58	4,799.60	4,611.94	187.66	25.576		
10,700.00	7,806.94	7,825.94	7,825.94	76.61	156.96	89.99	881.29	215.58	4,898.14	4,710.45	187.68	26.098		
10,800.00	7,806.94	7,825.94	7,825.94	78.20	156.96	89.99	881.29	215.58	4,996.73	4,809.02	187.71	26.619		
10,900.00	7,806.94	7,825.94	7,825.94	79.80	156.96	89.99	881.29	215.58	5,095.39	4,907.65	187.74	27.141		
11,000.00	7,806.94	7,825.94	7,825.94	81.41	156.96	89.99	881.29	215.58	5,194.09	5,006.32	187.77	27.662		
11,100.00	7,806.93	7,825.93	7,825.93	83.02	156.96	89.99	881.29	215.58	5,292.84	5,105.04	187.80	28.183		
11,200.00	7,806.93	7,825.93	7,825.93	84.64	156.96	89.99	881.29	215.58	5,391.64	5,203.81	187.83	28.705		
11,300.00	7,806.93	7,825.93	7,825.93	86.27	156.96	89.99	881.29	215.58	5,490.48	5,302.62	187.86	29.226		
11,400.00	7,806.93	7,825.93	7,825.93	87.90	156.96	89.99	881.29	215.58	5,589.36	5,401.46	187.90	29.747		
11,500.00	7,806.92	7,825.92	7,825.92	89.54	156.96	89.99	881.29	215.58	5,688.28	5,500.35	187.93	30.268		
11,600.00	7,806.92	7,825.92	7,825.92	91.18	156.96	89.99	881.29	215.58	5,787.24	5,599.27	187.97	30.788		
11,700.00	7,806.92	7,825.92	7,825.92	92.83	156.96	89.99	881.29	215.58	5,886.24	5,698.23	188.01	31.309		
11,800.00	7,806.92	7,825.92	7,825.92	94.48	156.96	89.99	881.29	215.58	5,985.26	5,797.22	188.05	31.829		
11,900.00	7,806.91	7,825.91	7,825.91	96.14	156.96	89.99	881.29	215.58	6,084.32	5,896.24	188.08	32.349		
12,000.00	7,806.91	7,825.91	7,825.91	97.80	156.96	89.99	881.29	215.58	6,183.41	5,995.29	188.13	32.869		
12,100.00	7,806.91	7,825.91	7,825.91	99.46	156.96	89.99	881.29	215.58	6,282.53	6,094.36	188.17	33.388		
12,200.00	7,806.91	7,825.91	7,825.91	101.13	156.96	89.99	881.29	215.58	6,381.68	6,193.47	188.21	33.907		
12,300.00	7,806.90	7,825.90	7,825.90	102.80	156.96	89.99	881.29	215.58	6,480.85	6,292.60	188.25	34.426		
12,400.00	7,806.90	7,825.90	7,825.90	104.47	156.96	89.99	881.29	215.58	6,580.05	6,391.75	188.30	34.945		
12,500.00	7,806.90	7,825.90	7,825.90	106.15	156.96	89.99	881.29	215.58	6,679.27	6,490.92	188.34	35.463		
12,600.00	7,806.90	7,825.90	7,825.90	107.83	156.96	89.99	881.29	215.58	6,778.51	6,590.12	188.39	35.982		
12,700.00	7,806.89	7,825.89	7,825.89	109.52	156.96	89.99	881.29	215.58	6,877.78	6,689.34	188.44	36.499		
12,800.00	7,806.89	7,825.89	7,825.89	111.20	156.96	89.99	881.29	215.58	6,977.06	6,788.58	188.48	37.017		
12,900.00	7,806.89	7,825.89	7,825.89	112.89	156.96	89.99	881.29	215.58	7,076.37	6,887.84	188.53	37.534		
13,000.00	7,806.89	7,825.89	7,825.89	114.59	156.96	89.99	881.29	215.58	7,175.70	6,987.11	188.58	38.051		
13,100.00	7,806.88	7,825.88	7,825.88	116.28	156.96	89.99	881.29	215.58	7,275.04	7,086.41	188.63	38.567		
13,200.00	7,806.88	7,825.88	7,825.88	117.98	156.96	89.99	881.29	215.58	7,374.40	7,185.72	188.69	39.083		
13,300.00	7,806.88	7,825.88	7,825.88	119.68	156.96	89.99	881.29	215.58	7,473.78	7,285.04	188.74	39.599		
13,400.00	7,806.88	7,825.88	7,825.88	121.38	156.96	89.99	881.29	215.58	7,573.18	7,384.39	188.79	40.114		
13,500.00	7,806.88	7,825.88	7,825.88	123.08	156.96	89.99	881.29	215.58	7,672.59	7,483.74	188.85	40.629		
13,600.00	7,806.87	7,825.87	7,825.87	124.79	156.96	89.99	881.29	215.58	7,772.02	7,583.11	188.90	41.143		
13,700.00	7,806.87	7,825.87	7,825.87	126.49	156.96	89.99	881.29	215.58	7,871.46	7,682.50	188.96	41.657		
13,800.00	7,806.87	7,825.87	7,825.87	128.20	156.96	89.99	881.29	215.58	7,970.91	7,781.90	189.01	42.171		
13,900.00	7,806.87	7,825.87	7,825.87	129.91	156.96	89.99	881.29	215.58	8,070.38	7,881.31	189.07	42.684		
14,000.00	7,806.86	7,825.86	7,825.86	131.62	156.96	89.99	881.29	215.58	8,169.86	7,980.73	189.13	43.197		
14,100.00	7,806.86	7,825.86	7,825.86	133.34	156.96	89.99	881.29	215.58	8,269.36	8,080.17	189.19	43.709		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,806.86	7,825.86	7,825.86	135.05	156.96	89.99	881.29	215.58	8,368.86	8,179.61	189.25	44.221	
14,300.00	7,806.86	7,825.86	7,825.86	136.77	156.96	89.99	881.29	215.58	8,468.38	8,279.07	189.31	44.733	
14,400.00	7,806.85	7,825.85	7,825.85	138.49	156.96	89.99	881.29	215.58	8,567.91	8,378.54	189.37	45.244	
14,500.00	7,806.85	7,825.85	7,825.85	140.21	156.96	89.99	881.29	215.58	8,667.45	8,478.01	189.43	45.754	
14,600.00	7,806.85	7,825.85	7,825.85	141.93	156.96	89.99	881.29	215.58	8,767.00	8,577.50	189.50	46.264	
14,700.00	7,806.85	7,825.85	7,825.85	143.65	156.96	89.99	881.29	215.58	8,866.56	8,677.00	189.56	46.774	
14,800.00	7,806.84	7,825.84	7,825.84	145.37	156.96	89.99	881.29	215.58	8,966.13	8,776.50	189.63	47.283	
14,900.00	7,806.84	7,825.84	7,825.84	147.10	156.96	89.98	881.29	215.58	9,065.71	8,876.02	189.69	47.792	
15,000.00	7,806.84	7,825.84	7,825.84	148.83	156.96	89.98	881.29	215.58	9,165.30	8,975.54	189.76	48.300	
15,100.00	7,806.84	7,825.84	7,825.84	150.55	156.96	89.98	881.29	215.58	9,264.89	9,075.07	189.82	48.808	
15,200.00	7,806.83	7,825.83	7,825.83	152.28	156.96	89.98	881.29	215.58	9,364.50	9,174.61	189.89	49.315	
15,300.00	7,806.83	7,825.83	7,825.83	154.01	156.96	89.98	881.29	215.58	9,464.12	9,274.15	189.96	49.821	
15,400.00	7,806.83	7,825.83	7,825.83	155.74	156.96	89.98	881.29	215.58	9,563.74	9,373.71	190.03	50.328	
15,500.00	7,806.83	7,825.83	7,825.83	157.47	156.96	89.98	881.29	215.58	9,663.37	9,473.27	190.10	50.833	
15,600.00	7,806.82	7,825.82	7,825.82	159.20	156.96	89.98	881.29	215.58	9,763.01	9,572.84	190.17	51.338	
15,700.00	7,806.82	7,825.82	7,825.82	160.93	156.96	89.98	881.29	215.58	9,862.65	9,672.41	190.24	51.843	
15,800.00	7,806.82	7,825.82	7,825.82	162.67	156.96	89.98	881.29	215.58	9,962.30	9,771.99	190.31	52.347	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	8.00	-8.00	0.00	0.09	-71.01	904.38	-2,628.53	2,779.77					
100.00	100.00	108.00	92.00	0.13	1.34	-71.01	904.38	-2,628.53	2,779.77	2,778.29	1.48	1,882.552		
200.00	200.00	208.00	192.00	0.49	3.62	-71.01	904.38	-2,628.53	2,779.77	2,775.65	4.12	675.344		
300.00	300.00	308.00	292.00	0.85	5.70	-71.01	904.38	-2,628.53	2,779.77	2,773.21	6.55	424.351		
400.00	400.00	408.00	392.00	1.21	7.74	-71.01	904.38	-2,628.53	2,779.77	2,770.81	8.95	310.575		
500.00	500.00	508.00	492.00	1.57	9.77	-71.01	904.38	-2,628.53	2,779.77	2,768.43	11.34	245.184		
600.00	600.00	608.00	592.00	1.93	11.79	-71.01	904.38	-2,628.53	2,779.77	2,766.05	13.72	202.630		
700.00	700.00	708.00	692.00	2.29	13.81	-71.01	904.38	-2,628.53	2,779.77	2,763.67	16.10	172.699		
800.00	800.00	808.00	792.00	2.64	15.83	-71.01	904.38	-2,628.53	2,779.77	2,761.29	18.47	150.489		
900.00	900.00	908.00	892.00	3.00	17.84	-71.01	904.38	-2,628.53	2,779.77	2,758.92	20.85	133.350		
1,000.00	1,000.00	1,008.00	992.00	3.36	19.86	-71.01	904.38	-2,628.53	2,779.77	2,756.55	23.22	119.720		
1,100.00	1,100.00	1,108.00	1,092.00	3.72	21.87	-71.01	904.38	-2,628.53	2,779.77	2,754.17	25.59	108.621 CC		
1,200.00	1,199.98	1,208.02	1,191.98	4.06	23.89	155.80	904.38	-2,628.53	2,781.36	2,753.41	27.95	99.517 ES		
1,300.00	1,299.84	1,308.16	1,291.84	4.40	25.90	155.81	904.38	-2,628.53	2,786.13	2,755.83	30.30	91.959		
1,400.00	1,399.45	1,408.55	1,391.45	4.74	27.92	155.81	904.38	-2,628.53	2,794.09	2,761.43	32.66	85.562		
1,500.00	1,498.70	1,509.30	1,490.70	5.09	29.95	155.83	904.38	-2,628.53	2,805.22	2,770.19	35.03	80.090		
1,600.00	1,597.47	1,589.47	1,589.47	5.46	31.56	155.84	904.38	-2,628.53	2,819.52	2,782.53	36.99	76.232		
1,700.00	1,695.62	1,687.62	1,687.62	5.85	33.54	155.85	904.38	-2,628.53	2,836.98	2,797.67	39.31	72.161		
1,800.00	1,793.06	1,785.06	1,785.06	6.27	35.50	155.86	904.38	-2,628.53	2,857.60	2,815.96	41.63	68.636		
1,867.07	1,857.94	1,849.94	1,849.94	6.57	36.80	155.87	904.38	-2,628.53	2,873.18	2,830.00	43.19	66.531		
1,900.00	1,889.69	1,881.69	1,881.69	6.72	37.44	155.94	904.38	-2,628.53	2,881.18	2,837.24	43.95	65.562		
2,000.00	1,986.13	1,978.13	1,978.13	7.19	39.38	156.15	904.38	-2,628.53	2,905.50	2,859.25	46.25	62.816		
2,100.00	2,082.57	2,074.57	2,074.57	7.68	41.32	156.36	904.38	-2,628.53	2,929.86	2,881.29	48.57	60.325		
2,200.00	2,179.00	2,171.00	2,171.00	8.18	43.26	156.56	904.38	-2,628.53	2,954.25	2,903.36	50.89	58.055		
2,300.00	2,275.44	2,267.44	2,267.44	8.69	45.20	156.76	904.38	-2,628.53	2,978.68	2,925.46	53.21	55.979		
2,400.00	2,371.88	2,363.88	2,363.88	9.21	47.14	156.96	904.38	-2,628.53	3,003.14	2,947.60	55.54	54.074		
2,500.00	2,468.31	2,460.31	2,460.31	9.74	49.08	157.16	904.38	-2,628.53	3,027.63	2,969.76	57.87	52.320		
2,600.00	2,564.75	2,556.75	2,556.75	10.28	51.02	157.35	904.38	-2,628.53	3,052.16	2,991.96	60.20	50.700		
2,700.00	2,661.19	2,653.19	2,653.19	10.82	52.96	157.54	904.38	-2,628.53	3,076.72	3,014.19	62.53	49.200		
2,800.00	2,757.62	2,749.62	2,749.62	11.37	54.90	157.72	904.38	-2,628.53	3,101.31	3,036.44	64.87	47.808		
2,900.00	2,854.06	2,846.06	2,846.06	11.92	56.84	157.91	904.38	-2,628.53	3,125.93	3,058.73	67.21	46.511		
3,000.00	2,950.50	2,942.50	2,942.50	12.47	58.78	158.09	904.38	-2,628.53	3,150.58	3,081.04	69.55	45.302		
3,100.00	3,046.93	3,038.93	3,038.93	13.03	60.72	158.26	904.38	-2,628.53	3,175.27	3,103.38	71.89	44.171		
3,200.00	3,143.37	3,135.37	3,135.37	13.59	62.66	158.44	904.38	-2,628.53	3,199.97	3,125.75	74.23	43.111		
3,300.00	3,239.81	3,231.81	3,231.81	14.15	64.60	158.61	904.38	-2,628.53	3,224.71	3,148.14	76.57	42.116		
3,400.00	3,336.24	3,328.24	3,328.24	14.72	66.54	158.78	904.38	-2,628.53	3,249.47	3,170.57	78.91	41.180		
3,500.00	3,432.68	3,424.68	3,424.68	15.28	68.48	158.95	904.38	-2,628.53	3,274.26	3,193.01	81.25	40.298		
3,600.00	3,529.12	3,521.12	3,521.12	15.85	70.42	159.11	904.38	-2,628.53	3,299.08	3,215.49	83.59	39.466		
3,700.00	3,625.55	3,617.55	3,617.55	16.42	72.36	159.27	904.38	-2,628.53	3,323.92	3,237.99	85.94	38.679		
3,800.00	3,721.99	3,713.99	3,713.99	16.99	74.30	159.43	904.38	-2,628.53	3,348.79	3,260.51	88.28	37.934		
3,900.00	3,818.43	3,810.43	3,810.43	17.56	76.24	159.59	904.38	-2,628.53	3,373.68	3,283.06	90.62	37.228		
4,000.00	3,914.86	3,906.86	3,906.86	18.14	78.18	159.74	904.38	-2,628.53	3,398.59	3,305.63	92.96	36.558		
4,100.00	4,011.30	4,003.30	4,003.30	18.71	80.12	159.90	904.38	-2,628.53	3,423.53	3,328.22	95.31	35.921		
4,200.00	4,107.74	4,100.26	4,099.74	19.29	82.07	160.05	904.38	-2,628.53	3,448.49	3,350.83	97.66	35.311		
4,300.00	4,204.17	4,203.83	4,196.17	19.86	84.15	160.20	904.38	-2,628.53	3,473.47	3,373.32	100.15	34.683		
4,400.00	4,300.61	4,307.39	4,292.61	20.44	86.23	160.34	904.38	-2,628.53	3,498.48	3,395.84	102.63	34.087		
4,500.00	4,397.05	4,389.05	4,389.05	21.02	87.87	160.49	904.38	-2,628.53	3,523.50	3,418.82	104.68	33.660		
4,600.00	4,493.48	4,485.48	4,485.48	21.59	89.81	160.63	904.38	-2,628.53	3,548.55	3,441.52	107.02	33.157		
4,700.00	4,589.92	4,581.92	4,581.92	22.17	91.75	160.77	904.38	-2,628.53	3,573.61	3,464.25	109.37	32.676		
4,800.00	4,686.36	4,678.36	4,678.36	22.75	93.69	160.91	904.38	-2,628.53	3,598.70	3,486.99	111.71	32.215		
4,900.00	4,782.79	4,774.79	4,774.79	23.33	95.63	161.04	904.38	-2,628.53	3,623.80	3,509.75	114.05	31.773		
5,000.00	4,879.23	4,871.23	4,871.23	23.91	97.57	161.18	904.38	-2,628.53	3,648.93	3,532.53	116.39	31.350		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,967.67	4,967.67	24.49	99.51	161.31	904.38	-2,628.53	3,674.07	3,555.33	118.74	30.943		
5,200.00	5,072.10	5,064.10	5,064.10	25.07	101.45	161.44	904.38	-2,628.53	3,699.23	3,578.15	121.08	30.552		
5,300.00	5,168.54	5,160.54	5,160.54	25.66	103.39	161.57	904.38	-2,628.53	3,724.41	3,600.99	123.42	30.176		
5,400.00	5,264.98	5,256.98	5,256.98	26.24	105.33	161.70	904.38	-2,628.53	3,749.61	3,623.85	125.76	29.815		
5,500.00	5,361.41	5,353.41	5,353.41	26.82	107.27	161.82	904.38	-2,628.53	3,774.82	3,646.72	128.11	29.467		
5,600.00	5,457.85	5,449.85	5,449.85	27.40	109.21	161.95	904.38	-2,628.53	3,800.05	3,669.61	130.45	29.131		
5,700.00	5,554.29	5,546.29	5,546.29	27.99	111.15	162.07	904.38	-2,628.53	3,825.30	3,692.51	132.79	28.807		
5,800.00	5,650.72	5,642.72	5,642.72	28.57	113.09	162.19	904.38	-2,628.53	3,850.57	3,715.44	135.13	28.495		
5,900.00	5,747.16	5,739.16	5,739.16	29.15	115.03	162.31	904.38	-2,628.53	3,875.85	3,738.37	137.47	28.194		
6,000.00	5,843.60	5,835.60	5,835.60	29.74	116.97	162.43	904.38	-2,628.53	3,901.14	3,761.33	139.81	27.902		
6,100.00	5,940.03	5,932.03	5,932.03	30.32	118.91	162.54	904.38	-2,628.53	3,926.45	3,784.30	142.15	27.621		
6,200.00	6,036.47	6,028.47	6,028.47	30.90	120.84	162.66	904.38	-2,628.53	3,951.78	3,807.28	144.50	27.349		
6,300.00	6,132.91	6,124.91	6,124.91	31.49	122.78	162.77	904.38	-2,628.53	3,977.12	3,830.28	146.84	27.085		
6,400.00	6,229.34	6,221.34	6,221.34	32.07	124.72	162.88	904.38	-2,628.53	4,002.47	3,853.30	149.18	26.830		
6,500.00	6,325.78	6,317.78	6,317.78	32.66	126.66	162.99	904.38	-2,628.53	4,027.84	3,876.33	151.52	26.583		
6,552.14	6,376.06	6,368.06	6,368.06	32.96	127.67	163.05	904.38	-2,628.53	4,041.08	3,888.34	152.74	26.457		
6,600.00	6,422.32	6,414.32	6,414.32	33.24	128.60	163.17	904.38	-2,628.53	4,052.86	3,899.00	153.86	26.341		
6,700.00	6,519.60	6,511.60	6,511.60	33.78	130.56	163.40	904.38	-2,628.53	4,075.07	3,918.87	156.21	26.088		
6,800.00	6,617.63	6,609.63	6,609.63	34.27	132.53	163.58	904.38	-2,628.53	4,094.03	3,935.47	158.56	25.820		
6,900.00	6,716.28	6,708.28	6,708.28	34.72	134.52	163.74	904.38	-2,628.53	4,109.69	3,948.78	160.92	25.539		
7,000.00	6,815.45	6,807.45	6,807.45	35.13	136.51	163.86	904.38	-2,628.53	4,122.04	3,958.77	163.27	25.247		
7,100.00	6,915.00	6,907.00	6,907.00	35.49	138.51	163.94	904.38	-2,628.53	4,131.06	3,965.44	165.62	24.943		
7,200.00	7,014.82	7,006.82	7,006.82	35.81	140.52	164.00	904.38	-2,628.53	4,136.73	3,968.77	167.97	24.628		
7,300.00	7,114.79	7,106.79	7,106.79	36.09	142.53	164.02	904.38	-2,628.53	4,139.06	3,968.75	170.30	24.304		
7,319.21	7,134.00	7,126.00	7,126.00	36.14	142.92	-62.79	904.38	-2,628.53	4,139.12	3,968.37	170.75	24.241		
7,400.00	7,214.79	7,206.79	7,206.79	36.33	144.54	-62.79	904.38	-2,628.53	4,139.12	3,966.51	172.61	23.980		
7,419.21	7,234.00	7,226.00	7,226.00	36.37	144.93	-62.79	904.38	-2,628.53	4,139.12	3,966.06	173.05	23.918		
7,450.00	7,264.77	7,256.77	7,256.77	36.46	145.55	117.53	904.38	-2,628.53	4,139.50	3,965.73	173.77	23.822		
7,500.00	7,314.52	7,306.52	7,306.52	36.62	146.55	117.39	904.38	-2,628.53	4,141.75	3,966.81	174.94	23.675		
7,550.00	7,363.66	7,355.66	7,355.66	36.81	147.53	117.12	904.38	-2,628.53	4,146.01	3,969.89	176.12	23.541		
7,600.00	7,411.80	7,403.80	7,403.80	37.03	148.50	116.71	904.38	-2,628.53	4,152.28	3,974.99	177.29	23.421		
7,650.00	7,458.60	7,450.60	7,450.60	37.29	149.44	116.17	904.38	-2,628.53	4,160.52	3,982.08	178.44	23.316		
7,700.00	7,503.68	7,504.32	7,495.68	37.57	150.52	115.48	904.38	-2,628.53	4,170.73	3,990.99	179.75	23.204		
7,750.00	7,546.72	7,538.72	7,538.72	37.89	151.22	114.62	904.38	-2,628.53	4,182.88	4,002.21	180.67	23.152		
7,800.00	7,587.37	7,579.37	7,579.37	38.23	152.03	113.60	904.38	-2,628.53	4,196.91	4,015.19	181.72	23.095		
7,850.00	7,625.34	7,617.34	7,617.34	38.59	152.80	112.38	904.38	-2,628.53	4,212.78	4,030.05	182.73	23.055		
7,900.00	7,660.33	7,652.33	7,652.33	38.99	153.50	110.97	904.38	-2,628.53	4,230.43	4,046.75	183.68	23.032		
7,950.00	7,692.07	7,684.07	7,684.07	39.40	154.14	109.33	904.38	-2,628.53	4,249.77	4,065.21	184.56	23.026 SF		
8,000.00	7,720.33	7,712.33	7,712.33	39.85	154.71	107.47	904.38	-2,628.53	4,270.71	4,085.33	185.37	23.038		
8,050.00	7,744.88	7,736.88	7,736.88	40.31	155.20	105.37	904.38	-2,628.53	4,293.14	4,107.03	186.11	23.068		
8,100.00	7,765.55	7,757.55	7,757.55	40.79	155.62	103.03	904.38	-2,628.53	4,316.93	4,130.17	186.76	23.115		
8,150.00	7,782.18	7,774.18	7,774.18	41.30	155.95	100.43	904.38	-2,628.53	4,341.94	4,154.62	187.32	23.179		
8,200.00	7,794.63	7,786.63	7,786.63	41.81	156.20	97.60	904.38	-2,628.53	4,368.01	4,180.22	187.79	23.260		
8,250.00	7,802.82	7,805.18	7,794.82	42.34	156.57	94.54	904.38	-2,628.53	4,394.94	4,206.58	188.37	23.332		
8,300.00	7,806.68	7,801.32	7,798.68	42.88	156.50	91.30	904.38	-2,628.53	4,422.56	4,234.08	188.48	23.464		
8,319.29	7,807.00	7,801.00	7,799.00	43.09	156.49	90.00	904.38	-2,628.53	4,433.36	4,244.81	188.55	23.513		
8,400.00	7,807.00	7,801.00	7,799.00	43.98	156.49	90.00	904.38	-2,628.53	4,479.14	4,290.29	188.85	23.718		
8,500.00	7,807.00	7,801.00	7,799.00	45.12	156.49	90.00	904.38	-2,628.53	4,537.21	4,347.99	189.23	23.978		
8,600.00	7,806.99	7,801.01	7,798.99	46.31	156.49	90.00	904.38	-2,628.53	4,596.73	4,407.12	189.61	24.243		
8,700.00	7,806.99	7,801.01	7,798.99	47.53	156.49	90.00	904.38	-2,628.53	4,657.63	4,467.63	190.01	24.513		
8,800.00	7,806.99	7,801.01	7,798.99	48.78	156.49	90.00	904.38	-2,628.53	4,719.87	4,529.47	190.41	24.788		
8,900.00	7,806.99	7,801.01	7,798.99	50.07	156.49	90.00	904.38	-2,628.53	4,783.39	4,592.58	190.81	25.069		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,801.02	7,798.98	51.38	156.49	90.00	904.38	-2,628.53	4,848.14	4,656.93	191.21	25.355		
9,100.00	7,806.98	7,801.02	7,798.98	52.72	156.49	90.00	904.38	-2,628.53	4,914.07	4,722.46	191.61	25.646		
9,200.00	7,806.98	7,801.02	7,798.98	54.09	156.49	90.00	904.38	-2,628.53	4,981.14	4,789.13	192.01	25.942		
9,300.00	7,806.98	7,801.02	7,798.98	55.48	156.49	90.00	904.38	-2,628.53	5,049.29	4,856.89	192.41	26.243		
9,400.00	7,806.97	7,801.03	7,798.97	56.89	156.49	90.00	904.38	-2,628.53	5,118.49	4,925.69	192.80	26.548		
9,500.00	7,806.97	7,801.03	7,798.97	58.32	156.49	90.00	904.38	-2,628.53	5,188.70	4,995.51	193.19	26.858		
9,600.00	7,806.97	7,801.03	7,798.97	59.77	156.49	90.00	904.38	-2,628.53	5,259.87	5,066.30	193.57	27.172		
9,700.00	7,806.97	7,801.03	7,798.97	61.23	156.49	90.00	904.38	-2,628.53	5,331.97	5,138.01	193.95	27.491		
9,800.00	7,806.96	7,801.04	7,798.96	62.71	156.49	90.00	904.38	-2,628.53	5,404.95	5,210.62	194.33	27.814		
9,900.00	7,806.96	7,801.04	7,798.96	64.21	156.49	90.00	904.38	-2,628.53	5,478.79	5,284.10	194.70	28.140		
10,000.00	7,806.96	7,801.04	7,798.96	65.72	156.49	90.00	904.38	-2,628.53	5,553.45	5,358.39	195.06	28.471		
10,100.00	7,806.96	7,801.04	7,798.96	67.24	156.49	90.00	904.38	-2,628.53	5,628.89	5,433.48	195.41	28.805		
10,200.00	7,806.95	7,801.05	7,798.95	68.78	156.49	90.00	904.38	-2,628.53	5,705.09	5,509.33	195.76	29.143		
10,300.00	7,806.95	7,801.05	7,798.95	70.32	156.49	90.00	904.38	-2,628.53	5,782.01	5,585.91	196.10	29.485		
10,400.00	7,806.95	7,801.05	7,798.95	71.88	156.49	90.00	904.38	-2,628.53	5,859.63	5,663.20	196.44	29.830		
10,500.00	7,806.95	7,801.05	7,798.95	73.45	156.49	90.00	904.38	-2,628.53	5,937.92	5,741.16	196.77	30.178		
10,600.00	7,806.95	7,801.06	7,798.95	75.02	156.49	90.00	904.38	-2,628.53	6,016.86	5,819.77	197.09	30.529		
10,700.00	7,806.94	7,801.06	7,798.94	76.61	156.49	90.00	904.38	-2,628.53	6,096.41	5,899.01	197.40	30.883		
10,800.00	7,806.94	7,801.06	7,798.94	78.20	156.49	90.00	904.38	-2,628.53	6,176.56	5,978.84	197.71	31.240		
10,900.00	7,806.94	7,801.06	7,798.94	79.80	156.49	90.00	904.38	-2,628.53	6,257.27	6,059.26	198.01	31.600		
11,000.00	7,806.94	7,801.06	7,798.94	81.41	156.49	90.00	904.38	-2,628.53	6,338.54	6,140.23	198.31	31.963		
11,100.00	7,806.93	7,801.07	7,798.93	83.02	156.49	90.00	904.38	-2,628.53	6,420.34	6,221.74	198.60	32.328		
11,200.00	7,806.93	7,801.07	7,798.93	84.64	156.49	90.00	904.38	-2,628.53	6,502.64	6,303.76	198.88	32.696		
11,300.00	7,806.93	7,801.07	7,798.93	86.27	156.49	90.00	904.38	-2,628.53	6,585.44	6,386.28	199.16	33.067		
11,400.00	7,806.93	7,801.07	7,798.93	87.90	156.49	90.00	904.38	-2,628.53	6,668.71	6,469.28	199.43	33.439		
11,500.00	7,806.92	7,801.08	7,798.92	89.54	156.49	90.00	904.38	-2,628.53	6,752.43	6,552.73	199.69	33.814		
11,600.00	7,806.92	7,801.08	7,798.92	91.18	156.49	90.00	904.38	-2,628.53	6,836.59	6,636.63	199.95	34.191		
11,700.00	7,806.92	7,801.08	7,798.92	92.83	156.49	90.00	904.38	-2,628.53	6,921.17	6,720.96	200.21	34.570		
11,800.00	7,806.92	7,801.08	7,798.92	94.48	156.49	90.00	904.38	-2,628.53	7,006.15	6,805.70	200.45	34.951		
11,900.00	7,806.91	7,801.09	7,798.91	96.14	156.49	90.00	904.38	-2,628.53	7,091.53	6,890.83	200.70	35.334		
12,000.00	7,806.91	7,801.09	7,798.91	97.80	156.49	90.00	904.38	-2,628.53	7,177.29	6,976.35	200.94	35.719		
12,100.00	7,806.91	7,801.09	7,798.91	99.46	156.49	90.00	904.38	-2,628.53	7,263.41	7,062.24	201.17	36.106		
12,200.00	7,806.91	7,801.09	7,798.91	101.13	156.49	90.00	904.38	-2,628.53	7,349.88	7,148.48	201.40	36.494		
12,300.00	7,806.90	7,801.10	7,798.90	102.80	156.49	90.00	904.38	-2,628.53	7,436.69	7,235.06	201.62	36.884		
12,400.00	7,806.90	7,801.10	7,798.90	104.47	156.49	90.00	904.38	-2,628.53	7,523.83	7,321.98	201.84	37.276		
12,500.00	7,806.90	7,801.10	7,798.90	106.15	156.49	90.00	904.38	-2,628.53	7,611.28	7,409.22	202.06	37.669		
12,600.00	7,806.90	7,801.10	7,798.90	107.83	156.49	90.00	904.38	-2,628.53	7,699.04	7,496.77	202.27	38.063		
12,700.00	7,806.89	7,801.11	7,798.89	109.52	156.49	90.00	904.38	-2,628.53	7,787.09	7,584.62	202.48	38.459		
12,800.00	7,806.89	7,801.11	7,798.89	111.20	156.49	90.00	904.38	-2,628.53	7,875.44	7,672.76	202.68	38.857		
12,900.00	7,806.89	7,801.11	7,798.89	112.89	156.49	90.00	904.38	-2,628.53	7,964.05	7,761.17	202.88	39.255		
13,000.00	7,806.89	7,801.11	7,798.89	114.59	156.49	90.00	904.38	-2,628.53	8,052.93	7,849.86	203.07	39.655		
13,100.00	7,806.88	7,801.12	7,798.88	116.28	156.49	90.00	904.38	-2,628.53	8,142.07	7,938.81	203.27	40.056		
13,200.00	7,806.88	7,801.12	7,798.88	117.98	156.49	90.00	904.38	-2,628.53	8,231.46	8,028.01	203.46	40.458		
13,300.00	7,806.88	7,801.12	7,798.88	119.68	156.49	90.00	904.38	-2,628.53	8,321.10	8,117.46	203.64	40.862		
13,400.00	7,806.88	7,801.12	7,798.88	121.38	156.49	90.00	904.38	-2,628.53	8,410.96	8,207.14	203.82	41.266		
13,500.00	7,806.88	7,801.13	7,798.88	123.08	156.49	90.00	904.38	-2,628.53	8,501.05	8,297.05	204.00	41.671		
13,600.00	7,806.87	7,801.13	7,798.87	124.79	156.49	90.00	904.38	-2,628.53	8,591.36	8,387.19	204.18	42.078		
13,700.00	7,806.87	7,801.13	7,798.87	126.49	156.49	90.00	904.38	-2,628.53	8,681.89	8,477.54	204.35	42.485		
13,800.00	7,806.87	7,801.13	7,798.87	128.20	156.49	90.00	904.38	-2,628.53	8,772.62	8,568.10	204.52	42.893		
13,900.00	7,806.87	7,801.13	7,798.87	129.91	156.49	90.00	904.38	-2,628.53	8,863.55	8,658.86	204.69	43.303		
14,000.00	7,806.86	7,801.14	7,798.86	131.62	156.49	90.00	904.38	-2,628.53	8,954.67	8,749.81	204.85	43.712		
14,100.00	7,806.86	7,801.14	7,798.86	133.34	156.49	90.00	904.38	-2,628.53	9,045.98	8,840.96	205.02	44.123		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	7,806.86	7,801.14	7,798.86	135.05	156.49	90.00	904.38	-2,628.53	9,137.47	8,932.29	205.18	44.535	
14,300.00	7,806.86	7,801.14	7,798.86	136.77	156.49	90.00	904.38	-2,628.53	9,229.14	9,023.80	205.33	44.947	
14,400.00	7,806.85	7,801.15	7,798.85	138.49	156.49	90.00	904.38	-2,628.53	9,320.98	9,115.49	205.49	45.360	
14,500.00	7,806.85	7,801.15	7,798.85	140.21	156.49	90.00	904.38	-2,628.53	9,412.98	9,207.34	205.64	45.773	
14,600.00	7,806.85	7,801.15	7,798.85	141.93	156.49	90.00	904.38	-2,628.53	9,505.15	9,299.36	205.79	46.188	
14,700.00	7,806.85	7,801.15	7,798.85	143.65	156.49	90.00	904.38	-2,628.53	9,597.47	9,391.53	205.94	46.603	
14,800.00	7,806.84	7,801.16	7,798.84	145.37	156.49	90.00	904.38	-2,628.53	9,689.95	9,483.86	206.09	47.018	
14,900.00	7,806.84	7,801.16	7,798.84	147.10	156.49	90.00	904.38	-2,628.53	9,782.57	9,576.34	206.24	47.434	
15,000.00	7,806.84	7,801.16	7,798.84	148.83	156.49	90.00	904.38	-2,628.53	9,875.34	9,668.96	206.38	47.851	
15,100.00	7,806.84	7,801.16	7,798.84	150.55	156.49	90.00	904.38	-2,628.53	9,968.25	9,761.73	206.52	48.268	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	107.89	-493.44	1,528.35	1,606.03					
100.00	100.00	116.00	116.00	0.13	1.53	107.89	-493.44	1,528.35	1,606.03	1,604.37	1.66	967.209		
200.00	200.00	216.00	216.00	0.49	3.79	107.89	-493.44	1,528.35	1,606.03	1,601.75	4.28	375.031		
300.00	300.00	316.00	316.00	0.85	5.86	107.89	-493.44	1,528.35	1,606.03	1,599.32	6.71	239.206		
400.00	400.00	416.00	416.00	1.21	7.90	107.89	-493.44	1,528.35	1,606.03	1,596.92	9.11	176.241		
500.00	500.00	516.00	516.00	1.57	9.93	107.89	-493.44	1,528.35	1,606.03	1,594.53	11.50	139.663		
600.00	600.00	616.00	616.00	1.93	11.95	107.89	-493.44	1,528.35	1,606.03	1,592.15	13.88	115.708		
700.00	700.00	716.00	716.00	2.29	13.97	107.89	-493.44	1,528.35	1,606.03	1,589.77	16.26	98.788		
800.00	800.00	816.00	816.00	2.64	15.99	107.89	-493.44	1,528.35	1,606.03	1,587.40	18.63	86.194		
900.00	900.00	916.00	916.00	3.00	18.00	107.89	-493.44	1,528.35	1,606.03	1,585.02	21.01	76.453		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	20.02	107.89	-493.44	1,528.35	1,606.03	1,582.65	23.38	68.693		
1,100.00	1,100.00	1,116.00	1,116.00	3.72	22.03	107.89	-493.44	1,528.35	1,606.03	1,580.28	25.75	62.364		
1,200.00	1,199.98	1,215.98	1,215.98	4.06	24.05	-25.33	-493.44	1,528.35	1,604.45	1,576.34	28.11	57.080		
1,300.00	1,299.84	1,315.84	1,315.84	4.40	26.06	-25.45	-493.44	1,528.35	1,599.72	1,569.27	30.45	52.533		
1,400.00	1,399.45	1,415.45	1,415.45	4.74	28.06	-25.66	-493.44	1,528.35	1,591.86	1,559.06	32.79	48.540		
1,500.00	1,498.70	1,514.70	1,514.70	5.09	30.06	-25.94	-493.44	1,528.35	1,580.87	1,545.73	35.13	44.995		
1,600.00	1,597.47	1,613.47	1,613.47	5.46	32.05	-26.32	-493.44	1,528.35	1,566.79	1,529.32	37.47	41.814		
1,700.00	1,695.62	1,711.62	1,711.62	5.85	34.02	-26.79	-493.44	1,528.35	1,549.66	1,509.86	39.80	38.936		
1,800.00	1,793.06	1,809.06	1,809.06	6.27	35.98	-27.35	-493.44	1,528.35	1,529.52	1,487.40	42.12	36.311		
1,867.07	1,857.94	1,873.94	1,873.94	6.57	37.29	-27.79	-493.44	1,528.35	1,514.36	1,470.68	43.68	34.671		
1,900.00	1,889.69	1,905.69	1,905.69	6.72	37.93	-27.95	-493.44	1,528.35	1,506.60	1,462.16	44.44	33.901		
2,000.00	1,986.13	2,002.13	2,002.13	7.19	39.87	-28.42	-493.44	1,528.35	1,483.10	1,436.34	46.76	31.718		
2,100.00	2,082.57	2,101.43	2,098.57	7.68	41.86	-28.91	-493.44	1,528.35	1,459.69	1,410.55	49.14	29.702		
2,200.00	2,179.00	2,205.00	2,195.00	8.18	43.95	-29.42	-493.44	1,528.35	1,436.39	1,384.77	51.62	27.824		
2,300.00	2,275.44	2,308.56	2,291.44	8.69	46.03	-29.94	-493.44	1,528.35	1,413.21	1,359.10	54.11	26.116		
2,400.00	2,371.88	2,387.88	2,387.88	9.21	47.63	-30.48	-493.44	1,528.35	1,390.14	1,334.02	56.12	24.771		
2,500.00	2,468.31	2,484.31	2,484.31	9.74	49.57	-31.04	-493.44	1,528.35	1,367.19	1,308.71	58.48	23.379		
2,600.00	2,564.75	2,580.75	2,580.75	10.28	51.51	-31.61	-493.44	1,528.35	1,344.37	1,283.53	60.85	22.094		
2,700.00	2,661.19	2,677.19	2,677.19	10.82	53.45	-32.21	-493.44	1,528.35	1,321.69	1,258.47	63.22	20.906		
2,800.00	2,757.62	2,773.62	2,773.62	11.37	55.39	-32.82	-493.44	1,528.35	1,299.15	1,233.55	65.60	19.803		
2,900.00	2,854.06	2,870.06	2,870.06	11.92	57.32	-33.46	-493.44	1,528.35	1,276.76	1,208.77	67.99	18.778		
3,000.00	2,950.50	2,966.50	2,966.50	12.47	59.26	-34.12	-493.44	1,528.35	1,254.53	1,184.14	70.39	17.824		
3,100.00	3,046.93	3,062.93	3,062.93	13.03	61.20	-34.80	-493.44	1,528.35	1,232.47	1,159.68	72.79	16.932		
3,200.00	3,143.37	3,159.37	3,159.37	13.59	63.14	-35.51	-493.44	1,528.35	1,210.58	1,135.38	75.20	16.098		
3,300.00	3,239.81	3,255.81	3,255.81	14.15	65.08	-36.24	-493.44	1,528.35	1,188.88	1,111.26	77.62	15.318		
3,400.00	3,336.24	3,352.24	3,352.24	14.72	67.02	-36.99	-493.44	1,528.35	1,167.37	1,087.33	80.04	14.585		
3,500.00	3,432.68	3,448.68	3,448.68	15.28	68.96	-37.78	-493.44	1,528.35	1,146.07	1,063.60	82.47	13.896		
3,600.00	3,529.12	3,545.12	3,545.12	15.85	70.90	-38.59	-493.44	1,528.35	1,124.99	1,040.08	84.91	13.249		
3,700.00	3,625.55	3,641.55	3,641.55	16.42	72.84	-39.44	-493.44	1,528.35	1,104.15	1,016.78	87.36	12.639		
3,800.00	3,721.99	3,737.99	3,737.99	16.99	74.78	-40.31	-493.44	1,528.35	1,083.54	993.72	89.82	12.063		
3,900.00	3,818.43	3,834.43	3,834.43	17.56	76.72	-41.22	-493.44	1,528.35	1,063.20	970.91	92.29	11.520		
4,000.00	3,914.86	3,930.86	3,930.86	18.14	78.66	-42.16	-493.44	1,528.35	1,043.13	948.36	94.76	11.008		
4,100.00	4,011.30	4,027.30	4,027.30	18.71	80.60	-43.14	-493.44	1,528.35	1,023.35	926.10	97.25	10.523		
4,200.00	4,107.74	4,123.74	4,123.74	19.29	82.54	-44.16	-493.44	1,528.35	1,003.88	904.13	99.75	10.064		
4,300.00	4,204.17	4,220.17	4,220.17	19.86	84.48	-45.21	-493.44	1,528.35	984.73	882.48	102.25	9.630		
4,400.00	4,300.61	4,316.61	4,316.61	20.44	86.42	-46.30	-493.44	1,528.35	965.93	861.16	104.77	9.220		
4,500.00	4,397.05	4,413.05	4,413.05	21.02	88.36	-47.44	-493.44	1,528.35	947.50	840.20	107.30	8.831		
4,600.00	4,493.48	4,509.48	4,509.48	21.59	90.30	-48.62	-493.44	1,528.35	929.45	819.61	109.84	8.462		
4,700.00	4,589.92	4,605.92	4,605.92	22.17	92.24	-49.84	-493.44	1,528.35	911.81	799.43	112.39	8.113		
4,800.00	4,686.36	4,702.36	4,702.36	22.75	94.18	-51.11	-493.44	1,528.35	894.61	779.66	114.95	7.783		
4,900.00	4,782.79	4,801.21	4,798.79	23.33	96.16	-52.42	-493.44	1,528.35	877.87	760.30	117.57	7.467		
5,000.00	4,879.23	4,904.77	4,895.23	23.91	98.25	-53.78	-493.44	1,528.35	861.62	741.32	120.29	7.163		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,100.00	4,975.67	5,008.33	4,991.67	24.49	100.33	-55.19	-493.44	1,528.35	845.88	722.84	123.03	6.875	
5,200.00	5,072.10	5,088.10	5,088.10	25.07	101.93	-56.65	-493.44	1,528.35	830.68	705.38	125.30	6.629	
5,300.00	5,168.54	5,184.54	5,184.54	25.66	103.87	-58.17	-493.44	1,528.35	816.06	688.15	127.92	6.380	
5,400.00	5,264.98	5,280.98	5,280.98	26.24	105.81	-59.73	-493.44	1,528.35	802.05	671.51	130.54	6.144	
5,500.00	5,361.41	5,377.41	5,377.41	26.82	107.75	-61.35	-493.44	1,528.35	788.68	655.50	133.17	5.922	
5,600.00	5,457.85	5,473.85	5,473.85	27.40	109.69	-63.01	-493.44	1,528.35	775.98	640.16	135.81	5.713	
5,700.00	5,554.29	5,570.29	5,570.29	27.99	111.63	-64.73	-493.44	1,528.35	763.98	625.52	138.46	5.518	
5,800.00	5,650.72	5,666.72	5,666.72	28.57	113.57	-66.50	-493.44	1,528.35	752.72	611.61	141.11	5.334	
5,900.00	5,747.16	5,763.16	5,763.16	29.15	115.51	-68.31	-493.44	1,528.35	742.24	598.47	143.76	5.163	
6,000.00	5,843.60	5,859.60	5,859.60	29.74	117.45	-70.17	-493.44	1,528.35	732.56	586.14	146.42	5.003	
6,100.00	5,940.03	5,956.03	5,956.03	30.32	119.39	-72.08	-493.44	1,528.35	723.72	574.65	149.07	4.855	
6,200.00	6,036.47	6,052.47	6,052.47	30.90	121.33	-74.03	-493.44	1,528.35	715.75	564.03	151.71	4.718	
6,300.00	6,132.91	6,148.91	6,148.91	31.49	123.27	-76.02	-493.44	1,528.35	708.67	554.32	154.35	4.591	
6,400.00	6,229.34	6,245.34	6,245.34	32.07	125.21	-78.04	-493.44	1,528.35	702.53	545.54	156.98	4.475	
6,500.00	6,325.78	6,341.78	6,341.78	32.66	127.15	-80.09	-493.44	1,528.35	697.33	537.73	159.60	4.369	
6,552.14	6,376.06	6,407.94	6,392.06	32.96	128.48	-81.18	-493.44	1,528.35	695.00	533.72	161.28	4.309	
6,600.00	6,422.32	6,438.32	6,438.32	33.24	129.09	-82.11	-493.44	1,528.35	693.16	530.96	162.20	4.273	
6,700.00	6,519.60	6,535.60	6,535.60	33.78	131.04	-83.90	-493.44	1,528.35	690.26	525.51	164.75	4.190	
6,800.00	6,617.63	6,633.63	6,633.63	34.27	133.01	-85.47	-493.44	1,528.35	688.39	521.14	167.25	4.116	
6,900.00	6,716.28	6,732.28	6,732.28	34.72	135.00	-86.78	-493.44	1,528.35	687.28	517.57	169.71	4.050	
7,000.00	6,815.45	6,831.45	6,831.45	35.13	136.99	-87.83	-493.44	1,528.35	686.67	514.55	172.12	3.990	
7,100.00	6,915.00	6,931.00	6,931.00	35.49	138.99	-88.61	-493.44	1,528.35	686.37	511.89	174.49	3.934	
7,200.00	7,014.82	7,030.82	7,030.82	35.81	141.00	-89.09	-493.44	1,528.35	686.26	509.44	176.81	3.881	
7,300.00	7,114.79	7,130.79	7,130.79	36.09	143.01	-89.30	-493.44	1,528.35	686.22	507.12	179.10	3.831	
7,319.21	7,134.00	7,150.00	7,150.00	36.14	143.40	43.89	-493.44	1,528.35	686.22	506.68	179.54	3.822	
7,400.00	7,214.79	7,230.79	7,230.79	36.33	145.02	43.89	-493.44	1,528.35	686.22	504.87	181.35	3.784	
7,419.21	7,234.00	7,250.00	7,250.00	36.37	145.41	43.89	-493.44	1,528.35	686.22	504.44	181.78	3.775 CC	
7,450.00	7,264.77	7,280.77	7,280.77	36.46	146.03	-135.78	-493.44	1,528.35	686.81	504.33	182.48	3.764 ES	
7,500.00	7,314.52	7,330.52	7,330.52	36.62	147.03	-135.81	-493.44	1,528.35	690.31	506.66	183.64	3.759 SF	
7,550.00	7,363.66	7,379.66	7,379.66	36.81	148.02	-135.87	-493.44	1,528.35	696.95	512.13	184.82	3.771	
7,600.00	7,411.80	7,427.80	7,427.80	37.03	148.99	-135.92	-493.44	1,528.35	706.76	520.76	186.00	3.800	
7,650.00	7,458.60	7,474.60	7,474.60	37.29	149.93	-135.94	-493.44	1,528.35	719.79	532.61	187.18	3.845	
7,700.00	7,503.68	7,519.68	7,519.68	37.57	150.83	-135.87	-493.44	1,528.35	736.04	547.71	188.33	3.908	
7,750.00	7,546.72	7,562.72	7,562.72	37.89	151.70	-135.66	-493.44	1,528.35	755.54	566.09	189.45	3.988	
7,800.00	7,587.37	7,603.37	7,603.37	38.23	152.52	-135.26	-493.44	1,528.35	778.26	587.74	190.52	4.085	
7,850.00	7,625.34	7,641.34	7,641.34	38.59	153.28	-134.60	-493.44	1,528.35	804.14	612.62	191.52	4.199	
7,900.00	7,660.33	7,676.33	7,676.33	38.99	153.98	-133.59	-493.44	1,528.35	833.10	640.64	192.46	4.329	
7,950.00	7,692.07	7,708.07	7,708.07	39.40	154.62	-132.12	-493.44	1,528.35	864.99	671.67	193.31	4.475	
8,000.00	7,720.33	7,736.33	7,736.33	39.85	155.19	-130.08	-493.44	1,528.35	899.62	705.54	194.08	4.635	
8,050.00	7,744.88	7,760.88	7,760.88	40.31	155.68	-127.30	-493.44	1,528.35	936.77	742.02	194.74	4.810	
8,100.00	7,765.55	7,781.55	7,781.55	40.79	156.10	-123.57	-493.44	1,528.35	976.16	780.85	195.31	4.998	
8,150.00	7,782.18	7,801.82	7,798.18	41.30	156.51	-118.64	-493.44	1,528.35	1,017.51	821.66	195.84	5.195	
8,200.00	7,794.63	7,810.63	7,810.63	41.81	156.68	-112.22	-493.44	1,528.35	1,060.47	864.34	196.13	5.407	
8,250.00	7,802.82	7,818.82	7,818.82	42.34	156.85	-104.08	-493.44	1,528.35	1,104.69	908.32	196.38	5.625	
8,300.00	7,806.68	7,822.68	7,822.68	42.88	156.93	-94.20	-493.44	1,528.35	1,149.81	953.29	196.52	5.851	
8,319.29	7,807.00	7,823.00	7,823.00	43.09	156.93	-90.00	-493.44	1,528.35	1,167.38	970.83	196.54	5.939	
8,400.00	7,807.00	7,823.00	7,823.00	43.98	156.93	-90.00	-493.44	1,528.35	1,241.43	1,044.82	196.61	6.314	
8,500.00	7,807.00	7,823.00	7,823.00	45.12	156.93	-90.00	-493.44	1,528.35	1,334.25	1,137.58	196.68	6.784	
8,600.00	7,806.99	7,822.99	7,822.99	46.31	156.93	-90.00	-493.44	1,528.35	1,428.05	1,231.33	196.72	7.259	
8,700.00	7,806.99	7,822.99	7,822.99	47.53	156.93	-90.00	-493.44	1,528.35	1,522.63	1,325.88	196.75	7.739	
8,800.00	7,806.99	7,822.99	7,822.99	48.78	156.93	-90.00	-493.44	1,528.35	1,617.87	1,421.09	196.78	8.222	
8,900.00	7,806.99	7,822.99	7,822.99	50.07	156.93	-90.00	-493.44	1,528.35	1,713.65	1,516.85	196.79	8.708	

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,822.98	7,822.98	51.38	156.93	-89.99	-493.44	1,528.35	1,809.88	1,613.08	196.81	9.196		
9,100.00	7,806.98	7,822.98	7,822.98	52.72	156.93	-89.99	-493.44	1,528.35	1,906.51	1,709.69	196.82	9.687		
9,200.00	7,806.98	7,822.98	7,822.98	54.09	156.93	-89.99	-493.44	1,528.35	2,003.46	1,806.63	196.83	10.179		
9,300.00	7,806.98	7,822.98	7,822.98	55.48	156.93	-89.99	-493.44	1,528.35	2,100.70	1,903.86	196.84	10.672		
9,400.00	7,806.97	7,822.97	7,822.97	56.89	156.93	-89.99	-493.44	1,528.35	2,198.19	2,001.34	196.84	11.167		
9,500.00	7,806.97	7,822.97	7,822.97	58.32	156.93	-89.99	-493.44	1,528.35	2,295.89	2,099.04	196.85	11.663		
9,600.00	7,806.97	7,822.97	7,822.97	59.77	156.93	-89.99	-493.44	1,528.35	2,393.78	2,196.92	196.86	12.160		
9,700.00	7,806.97	7,822.97	7,822.97	61.23	156.93	-89.99	-493.44	1,528.35	2,491.85	2,294.98	196.87	12.657		
9,800.00	7,806.96	7,822.96	7,822.96	62.71	156.93	-89.99	-493.44	1,528.35	2,590.05	2,393.18	196.88	13.156		
9,900.00	7,806.96	7,822.96	7,822.96	64.21	156.93	-89.99	-493.44	1,528.35	2,688.40	2,491.51	196.89	13.655		
10,000.00	7,806.96	7,822.96	7,822.96	65.72	156.93	-89.99	-493.44	1,528.35	2,786.85	2,589.96	196.90	14.154		
10,100.00	7,806.96	7,822.96	7,822.96	67.24	156.93	-89.99	-493.44	1,528.35	2,885.42	2,688.51	196.91	14.654		
10,200.00	7,806.95	7,822.95	7,822.95	68.78	156.93	-89.99	-493.44	1,528.35	2,984.08	2,787.16	196.92	15.154		
10,300.00	7,806.95	7,822.95	7,822.95	70.32	156.93	-89.99	-493.44	1,528.35	3,082.83	2,885.89	196.93	15.654		
10,400.00	7,806.95	7,822.95	7,822.95	71.88	156.93	-89.99	-493.44	1,528.35	3,181.65	2,984.70	196.95	16.155		
10,500.00	7,806.95	7,822.95	7,822.95	73.45	156.93	-89.99	-493.44	1,528.35	3,280.55	3,083.59	196.96	16.656		
10,600.00	7,806.95	7,822.95	7,822.95	75.02	156.93	-89.99	-493.44	1,528.35	3,379.51	3,182.53	196.98	17.157		
10,700.00	7,806.94	7,822.94	7,822.94	76.61	156.93	-89.99	-493.44	1,528.35	3,478.53	3,281.53	197.00	17.658		
10,800.00	7,806.94	7,822.94	7,822.94	78.20	156.93	-89.99	-493.44	1,528.35	3,577.61	3,380.59	197.01	18.159		
10,900.00	7,806.94	7,822.94	7,822.94	79.80	156.93	-89.99	-493.44	1,528.35	3,676.73	3,479.70	197.03	18.661		
11,000.00	7,806.94	7,822.94	7,822.94	81.41	156.93	-89.99	-493.44	1,528.35	3,775.90	3,578.85	197.05	19.162		
11,100.00	7,806.93	7,822.93	7,822.93	83.02	156.93	-89.99	-493.44	1,528.35	3,875.12	3,678.04	197.07	19.663		
11,200.00	7,806.93	7,822.93	7,822.93	84.64	156.93	-89.99	-493.44	1,528.35	3,974.37	3,777.27	197.10	20.165		
11,300.00	7,806.93	7,822.93	7,822.93	86.27	156.93	-89.99	-493.44	1,528.35	4,073.66	3,876.54	197.12	20.666		
11,400.00	7,806.93	7,822.93	7,822.93	87.90	156.93	-89.99	-493.44	1,528.35	4,172.98	3,975.84	197.14	21.167		
11,500.00	7,806.92	7,822.92	7,822.92	89.54	156.93	-89.99	-493.44	1,528.35	4,272.34	4,075.17	197.17	21.669		
11,600.00	7,806.92	7,822.92	7,822.92	91.18	156.93	-89.99	-493.44	1,528.35	4,371.72	4,174.53	197.19	22.170		
11,700.00	7,806.92	7,822.92	7,822.92	92.83	156.93	-89.99	-493.44	1,528.35	4,471.14	4,273.92	197.22	22.671		
11,800.00	7,806.92	7,822.92	7,822.92	94.48	156.93	-89.99	-493.44	1,528.35	4,570.57	4,373.33	197.24	23.172		
11,900.00	7,806.91	7,822.91	7,822.91	96.14	156.93	-89.99	-493.44	1,528.35	4,670.04	4,472.76	197.27	23.673		
12,000.00	7,806.91	7,822.91	7,822.91	97.80	156.93	-89.99	-493.44	1,528.35	4,769.52	4,572.22	197.30	24.174		
12,100.00	7,806.91	7,822.91	7,822.91	99.46	156.93	-89.99	-493.44	1,528.35	4,869.03	4,671.69	197.33	24.674		
12,200.00	7,806.91	7,822.91	7,822.91	101.13	156.93	-89.99	-493.44	1,528.35	4,968.55	4,771.19	197.36	25.175		
12,300.00	7,806.90	7,822.90	7,822.90	102.80	156.93	-89.99	-493.44	1,528.35	5,068.09	4,870.70	197.39	25.675		
12,400.00	7,806.90	7,822.90	7,822.90	104.47	156.93	-89.99	-493.44	1,528.35	5,167.66	4,970.23	197.42	26.175		
12,500.00	7,806.90	7,822.90	7,822.90	106.15	156.93	-89.98	-493.44	1,528.35	5,267.23	5,069.78	197.46	26.675		
12,600.00	7,806.90	7,822.90	7,822.90	107.83	156.93	-89.98	-493.44	1,528.35	5,366.83	5,169.34	197.49	27.175		
12,700.00	7,806.89	7,822.89	7,822.89	109.52	156.93	-89.98	-493.44	1,528.35	5,466.44	5,268.91	197.53	27.675		
12,800.00	7,806.89	7,822.89	7,822.89	111.20	156.93	-89.98	-493.44	1,528.35	5,566.06	5,368.50	197.56	28.174		
12,900.00	7,806.89	7,822.89	7,822.89	112.89	156.93	-89.98	-493.44	1,528.35	5,665.70	5,468.10	197.60	28.673		
13,000.00	7,806.89	7,822.89	7,822.89	114.59	156.93	-89.98	-493.44	1,528.35	5,765.34	5,567.71	197.63	29.172		
13,100.00	7,806.88	7,822.88	7,822.88	116.28	156.93	-89.98	-493.44	1,528.35	5,865.01	5,667.33	197.67	29.670		
13,200.00	7,806.88	7,822.88	7,822.88	117.98	156.93	-89.98	-493.44	1,528.35	5,964.68	5,766.97	197.71	30.169		
13,300.00	7,806.88	7,822.88	7,822.88	119.68	156.93	-89.98	-493.44	1,528.35	6,064.36	5,866.61	197.75	30.667		
13,400.00	7,806.88	7,822.88	7,822.88	121.38	156.93	-89.98	-493.44	1,528.35	6,164.05	5,966.26	197.79	31.165		
13,500.00	7,806.88	7,822.88	7,822.88	123.08	156.93	-89.98	-493.44	1,528.35	6,263.76	6,065.93	197.83	31.662		
13,600.00	7,806.87	7,822.87	7,822.87	124.79	156.93	-89.98	-493.44	1,528.35	6,363.47	6,165.60	197.87	32.160		
13,700.00	7,806.87	7,822.87	7,822.87	126.49	156.93	-89.98	-493.44	1,528.35	6,463.19	6,265.28	197.91	32.657		
13,800.00	7,806.87	7,822.87	7,822.87	128.20	156.93	-89.98	-493.44	1,528.35	6,562.92	6,364.96	197.96	33.153		
13,900.00	7,806.87	7,822.87	7,822.87	129.91	156.93	-89.98	-493.44	1,528.35	6,662.66	6,464.66	198.00	33.650		
14,000.00	7,806.86	7,822.86	7,822.86	131.62	156.93	-89.98	-493.44	1,528.35	6,762.40	6,564.36	198.04	34.146		
14,100.00	7,806.86	7,822.86	7,822.86	133.34	156.93	-89.98	-493.44	1,528.35	6,862.16	6,664.07	198.09	34.642		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design											Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program: 0-INC													Offset Well Error:		0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,200.00	7,806.86	7,822.86	7,822.86	135.05	156.93	-89.98	-493.44	1,528.35	6,961.92	6,763.78	198.13	35.138			
14,300.00	7,806.86	7,822.86	7,822.86	136.77	156.93	-89.98	-493.44	1,528.35	7,061.68	6,863.50	198.18	35.633			
14,400.00	7,806.85	7,822.85	7,822.85	138.49	156.93	-89.98	-493.44	1,528.35	7,161.45	6,963.23	198.23	36.128			
14,500.00	7,806.85	7,822.85	7,822.85	140.21	156.93	-89.98	-493.44	1,528.35	7,261.23	7,062.96	198.27	36.622			
14,600.00	7,806.85	7,822.85	7,822.85	141.93	156.93	-89.98	-493.44	1,528.35	7,361.02	7,162.70	198.32	37.116			
14,700.00	7,806.85	7,822.85	7,822.85	143.65	156.93	-89.98	-493.44	1,528.35	7,460.81	7,262.44	198.37	37.610			
14,800.00	7,806.84	7,822.84	7,822.84	145.37	156.93	-89.98	-493.44	1,528.35	7,560.61	7,362.19	198.42	38.104			
14,900.00	7,806.84	7,822.84	7,822.84	147.10	156.93	-89.98	-493.44	1,528.35	7,660.41	7,461.94	198.47	38.597			
15,000.00	7,806.84	7,822.84	7,822.84	148.83	156.93	-89.98	-493.44	1,528.35	7,760.22	7,561.70	198.52	39.090			
15,100.00	7,806.84	7,822.84	7,822.84	150.55	156.93	-89.98	-493.44	1,528.35	7,860.03	7,661.46	198.57	39.583			
15,200.00	7,806.83	7,822.83	7,822.83	152.28	156.93	-89.98	-493.44	1,528.35	7,959.85	7,761.22	198.62	40.075			
15,300.00	7,806.83	7,822.83	7,822.83	154.01	156.93	-89.98	-493.44	1,528.35	8,059.67	7,860.99	198.68	40.567			
15,400.00	7,806.83	7,822.83	7,822.83	155.74	156.93	-89.98	-493.44	1,528.35	8,159.49	7,960.76	198.73	41.058			
15,500.00	7,806.83	7,822.83	7,822.83	157.47	156.93	-89.98	-493.44	1,528.35	8,259.32	8,060.54	198.78	41.549			
15,600.00	7,806.82	7,822.82	7,822.82	159.20	156.93	-89.98	-493.44	1,528.35	8,359.16	8,160.32	198.84	42.040			
15,700.00	7,806.82	7,822.82	7,822.82	160.93	156.93	-89.98	-493.44	1,528.35	8,458.99	8,260.10	198.89	42.530			
15,800.00	7,806.82	7,822.82	7,822.82	162.67	156.93	-89.98	-493.44	1,528.35	8,558.84	8,359.89	198.95	43.020			
15,900.00	7,806.82	7,822.82	7,822.82	164.40	156.93	-89.98	-493.44	1,528.35	8,658.68	8,459.67	199.01	43.509			
16,000.00	7,806.81	7,822.81	7,822.81	166.14	156.93	-89.97	-493.44	1,528.35	8,758.53	8,559.47	199.06	43.999			
16,100.00	7,806.81	7,822.81	7,822.81	167.87	156.93	-89.97	-493.44	1,528.35	8,858.38	8,659.26	199.12	44.487			
16,200.00	7,806.81	7,822.81	7,822.81	169.61	156.93	-89.97	-493.44	1,528.35	8,958.24	8,759.06	199.18	44.976			
16,300.00	7,806.81	7,822.81	7,822.81	171.35	156.93	-89.97	-493.44	1,528.35	9,058.10	8,858.86	199.24	45.464			
16,400.00	7,806.81	7,822.81	7,822.81	173.09	156.93	-89.97	-493.44	1,528.35	9,157.96	8,958.66	199.30	45.951			
16,500.00	7,806.80	7,822.80	7,822.80	174.83	156.93	-89.97	-493.44	1,528.35	9,257.82	9,058.46	199.36	46.438			
16,600.00	7,806.80	7,822.80	7,822.80	176.57	156.93	-89.97	-493.44	1,528.35	9,357.69	9,158.27	199.42	46.925			
16,700.00	7,806.80	7,822.80	7,822.80	178.31	156.93	-89.97	-493.44	1,528.35	9,457.56	9,258.08	199.48	47.411			
16,800.00	7,806.80	7,822.80	7,822.80	180.05	156.93	-89.97	-493.44	1,528.35	9,557.43	9,357.89	199.54	47.897			
16,900.00	7,806.79	7,822.79	7,822.79	181.79	156.93	-89.97	-493.44	1,528.35	9,657.31	9,457.71	199.60	48.382			
17,000.00	7,806.79	7,822.79	7,822.79	183.53	156.93	-89.97	-493.44	1,528.35	9,757.19	9,557.52	199.67	48.867			
17,100.00	7,806.79	7,822.79	7,822.79	185.27	156.93	-89.97	-493.44	1,528.35	9,857.07	9,657.34	199.73	49.352			
17,200.00	7,806.79	7,822.79	7,822.79	187.02	156.93	-89.97	-493.44	1,528.35	9,956.95	9,757.16	199.79	49.836			

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	5.48	3,770.72	362.01	3,788.16					
100.00	100.00	72.00	72.00	0.13	0.83	5.48	3,770.72	362.01	3,788.05	3,787.08	0.97	3,911.703		
200.00	200.00	172.00	172.00	0.49	2.81	5.48	3,770.72	362.01	3,788.05	3,784.75	3.31	1,145.759		
300.00	300.00	272.00	272.00	0.85	4.95	5.48	3,770.72	362.01	3,788.05	3,782.25	5.81	652.538		
400.00	400.00	372.00	372.00	1.21	7.01	5.48	3,770.72	362.01	3,788.05	3,779.84	8.22	461.047		
500.00	500.00	472.00	472.00	1.57	9.04	5.48	3,770.72	362.01	3,788.05	3,777.45	10.61	357.111		
600.00	600.00	572.00	572.00	1.93	11.06	5.48	3,770.72	362.01	3,788.05	3,775.06	12.99	291.601		
700.00	700.00	672.00	672.00	2.29	13.08	5.48	3,770.72	362.01	3,788.05	3,772.68	15.37	246.469		
800.00	800.00	772.00	772.00	2.64	15.10	5.48	3,770.72	362.01	3,788.05	3,770.31	17.75	213.466		
900.00	900.00	872.00	872.00	3.00	17.12	5.48	3,770.72	362.01	3,788.05	3,767.93	20.12	188.272		
1,000.00	1,000.00	972.00	972.00	3.36	19.13	5.48	3,770.72	362.01	3,788.05	3,765.56	22.49	168.406		
1,100.00	1,100.00	1,072.00	1,072.00	3.72	21.15	5.48	3,770.72	362.01	3,788.05	3,763.19	24.87	152.337 CC		
1,200.00	1,199.98	1,171.98	1,171.98	4.06	23.16	-127.71	3,770.72	362.01	3,789.12	3,761.90	27.22	139.185 ES		
1,300.00	1,299.84	1,271.84	1,271.84	4.40	25.17	-127.72	3,770.72	362.01	3,792.32	3,762.76	29.57	128.256		
1,400.00	1,399.45	1,371.45	1,371.45	4.74	27.18	-127.74	3,770.72	362.01	3,797.67	3,765.76	31.91	118.994		
1,500.00	1,498.70	1,470.70	1,470.70	5.09	29.17	-127.76	3,770.72	362.01	3,805.17	3,770.90	34.26	111.060		
1,600.00	1,597.47	1,569.47	1,569.47	5.46	31.16	-127.79	3,770.72	362.01	3,814.83	3,778.21	36.61	104.200		
1,700.00	1,695.62	1,667.62	1,667.62	5.85	33.14	-127.83	3,770.72	362.01	3,826.66	3,787.70	38.96	98.220		
1,800.00	1,793.06	1,765.06	1,765.06	6.27	35.10	-127.87	3,770.72	362.01	3,840.68	3,799.37	41.31	92.969		
1,867.07	1,857.94	1,829.94	1,829.94	6.57	36.40	-127.89	3,770.72	362.01	3,851.33	3,808.44	42.89	89.795		
1,900.00	1,889.69	1,861.69	1,861.69	6.72	37.04	-127.99	3,770.72	362.01	3,856.81	3,813.14	43.67	88.325		
2,000.00	1,986.13	1,958.13	1,958.13	7.19	38.98	-128.29	3,770.72	362.01	3,873.51	3,827.48	46.03	84.155		
2,100.00	2,082.57	2,054.57	2,054.57	7.68	40.92	-128.59	3,770.72	362.01	3,890.33	3,841.93	48.40	80.378		
2,200.00	2,179.00	2,151.00	2,151.00	8.18	42.86	-128.89	3,770.72	362.01	3,907.25	3,856.47	50.78	76.943		
2,300.00	2,275.44	2,247.44	2,247.44	8.69	44.80	-129.18	3,770.72	362.01	3,924.27	3,871.11	53.17	73.809		
2,400.00	2,371.88	2,343.88	2,343.88	9.21	46.74	-129.48	3,770.72	362.01	3,941.41	3,885.85	55.56	70.940		
2,500.00	2,468.31	2,440.31	2,440.31	9.74	48.68	-129.76	3,770.72	362.01	3,958.64	3,900.68	57.96	68.304		
2,600.00	2,564.75	2,536.75	2,536.75	10.28	50.62	-130.05	3,770.72	362.01	3,975.97	3,915.62	60.36	65.875		
2,700.00	2,661.19	2,633.19	2,633.19	10.82	52.56	-130.34	3,770.72	362.01	3,993.41	3,930.65	62.76	63.631		
2,800.00	2,757.62	2,729.62	2,729.62	11.37	54.50	-130.62	3,770.72	362.01	4,010.94	3,945.78	65.16	61.553		
2,900.00	2,854.06	2,826.06	2,826.06	11.92	56.44	-130.90	3,770.72	362.01	4,028.57	3,961.00	67.57	59.622		
3,000.00	2,950.50	2,922.50	2,922.50	12.47	58.38	-131.18	3,770.72	362.01	4,046.30	3,976.32	69.98	57.824		
3,100.00	3,046.93	3,018.93	3,018.93	13.03	60.32	-131.45	3,770.72	362.01	4,064.12	3,991.74	72.38	56.147		
3,200.00	3,143.37	3,115.37	3,115.37	13.59	62.26	-131.72	3,770.72	362.01	4,082.04	4,007.24	74.79	54.579		
3,300.00	3,239.81	3,211.81	3,211.81	14.15	64.20	-131.99	3,770.72	362.01	4,100.04	4,022.84	77.20	53.109		
3,400.00	3,336.24	3,308.24	3,308.24	14.72	66.14	-132.26	3,770.72	362.01	4,118.14	4,038.53	79.61	51.730		
3,500.00	3,432.68	3,404.68	3,404.68	15.28	68.08	-132.53	3,770.72	362.01	4,136.33	4,054.32	82.02	50.432		
3,600.00	3,529.12	3,501.12	3,501.12	15.85	70.02	-132.79	3,770.72	362.01	4,154.61	4,070.18	84.43	49.210		
3,700.00	3,625.55	3,602.45	3,597.55	16.42	72.05	-133.05	3,770.72	362.01	4,172.98	4,086.04	86.93	48.003		
3,800.00	3,721.99	3,706.01	3,693.99	16.99	74.14	-133.31	3,770.72	362.01	4,191.43	4,101.95	89.48	46.840		
3,900.00	3,818.43	3,809.57	3,790.43	17.56	76.22	-133.57	3,770.72	362.01	4,209.97	4,117.93	92.03	45.744		
4,000.00	3,914.86	3,886.86	3,886.86	18.14	77.78	-133.83	3,770.72	362.01	4,228.59	4,134.53	94.05	44.959		
4,100.00	4,011.30	3,983.30	3,983.30	18.71	79.71	-134.08	3,770.72	362.01	4,247.29	4,150.83	96.46	44.032		
4,200.00	4,107.74	4,079.74	4,079.74	19.29	81.65	-134.33	3,770.72	362.01	4,266.08	4,167.22	98.87	43.151		
4,300.00	4,204.17	4,176.17	4,176.17	19.86	83.59	-134.58	3,770.72	362.01	4,284.95	4,183.68	101.27	42.312		
4,400.00	4,300.61	4,272.61	4,272.61	20.44	85.53	-134.82	3,770.72	362.01	4,303.90	4,200.22	103.67	41.514		
4,500.00	4,397.05	4,369.05	4,369.05	21.02	87.47	-135.07	3,770.72	362.01	4,322.92	4,216.85	106.07	40.754		
4,600.00	4,493.48	4,465.48	4,465.48	21.59	89.41	-135.31	3,770.72	362.01	4,342.03	4,233.55	108.48	40.027		
4,700.00	4,589.92	4,561.92	4,561.92	22.17	91.35	-135.55	3,770.72	362.01	4,361.21	4,250.33	110.88	39.334		
4,800.00	4,686.36	4,658.36	4,658.36	22.75	93.29	-135.79	3,770.72	362.01	4,380.47	4,267.19	113.28	38.671		
4,900.00	4,782.79	4,754.79	4,754.79	23.33	95.23	-136.03	3,770.72	362.01	4,399.80	4,284.12	115.68	38.036		
5,000.00	4,879.23	4,851.23	4,851.23	23.91	97.17	-136.26	3,770.72	362.01	4,419.21	4,301.13	118.07	37.428		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,947.67	4,947.67	24.49	99.11	-136.49	3,770.72	362.01	4,438.68	4,318.22	120.47	36.845		
5,200.00	5,072.10	5,044.10	5,044.10	25.07	101.05	-136.72	3,770.72	362.01	4,458.24	4,335.37	122.87	36.286		
5,300.00	5,168.54	5,140.54	5,140.54	25.66	102.99	-136.95	3,770.72	362.01	4,477.86	4,352.60	125.26	35.748		
5,400.00	5,264.98	5,236.98	5,236.98	26.24	104.93	-137.18	3,770.72	362.01	4,497.55	4,369.90	127.65	35.232		
5,500.00	5,361.41	5,333.41	5,333.41	26.82	106.87	-137.40	3,770.72	362.01	4,517.31	4,387.26	130.05	34.736		
5,600.00	5,457.85	5,429.85	5,429.85	27.40	108.81	-137.62	3,770.72	362.01	4,537.14	4,404.70	132.44	34.258		
5,700.00	5,554.29	5,526.29	5,526.29	27.99	110.75	-137.84	3,770.72	362.01	4,557.04	4,422.21	134.83	33.798		
5,800.00	5,650.72	5,622.72	5,622.72	28.57	112.68	-138.06	3,770.72	362.01	4,577.00	4,439.78	137.22	33.355		
5,900.00	5,747.16	5,719.16	5,719.16	29.15	114.62	-138.28	3,770.72	362.01	4,597.03	4,457.42	139.61	32.928		
6,000.00	5,843.60	5,815.60	5,815.60	29.74	116.56	-138.49	3,770.72	362.01	4,617.12	4,475.12	142.00	32.516		
6,100.00	5,940.03	5,912.03	5,912.03	30.32	118.50	-138.71	3,770.72	362.01	4,637.28	4,492.89	144.38	32.118		
6,200.00	6,036.47	6,008.47	6,008.47	30.90	120.44	-138.92	3,770.72	362.01	4,657.50	4,510.73	146.77	31.733		
6,300.00	6,132.91	6,104.91	6,104.91	31.49	122.38	-139.13	3,770.72	362.01	4,677.78	4,528.63	149.15	31.362		
6,400.00	6,229.34	6,201.34	6,201.34	32.07	124.32	-139.34	3,770.72	362.01	4,698.12	4,546.58	151.54	31.003		
6,500.00	6,325.78	6,302.22	6,297.78	32.66	126.35	-139.54	3,770.72	362.01	4,718.53	4,564.52	154.01	30.638		
6,552.14	6,376.06	6,348.06	6,348.06	32.96	127.27	-139.65	3,770.72	362.01	4,729.19	4,574.03	155.16	30.479		
6,600.00	6,422.32	6,405.68	6,394.32	33.24	128.43	-139.87	3,770.72	362.01	4,738.69	4,582.16	156.53	30.273		
6,700.00	6,519.60	6,508.40	6,491.60	33.78	130.50	-140.28	3,770.72	362.01	4,756.64	4,597.62	159.02	29.912		
6,800.00	6,617.63	6,589.63	6,589.63	34.27	132.13	-140.63	3,770.72	362.01	4,771.99	4,610.93	161.05	29.630		
6,900.00	6,716.28	6,688.28	6,688.28	34.72	134.11	-140.91	3,770.72	362.01	4,784.69	4,621.27	163.42	29.279		
7,000.00	6,815.45	6,787.45	6,787.45	35.13	136.11	-141.14	3,770.72	362.01	4,794.71	4,628.94	165.77	28.923		
7,100.00	6,915.00	6,887.00	6,887.00	35.49	138.11	-141.30	3,770.72	362.01	4,802.04	4,633.92	168.11	28.564		
7,200.00	7,014.82	6,986.82	6,986.82	35.81	140.12	-141.40	3,770.72	362.01	4,806.65	4,636.21	170.44	28.201		
7,300.00	7,114.79	7,086.79	7,086.79	36.09	142.13	-141.44	3,770.72	362.01	4,808.54	4,635.79	172.75	27.835		
7,319.21	7,134.00	7,106.00	7,106.00	36.14	142.51	-8.26	3,770.72	362.01	4,808.59	4,635.40	173.19	27.764		
7,400.00	7,214.79	7,186.79	7,186.79	36.33	144.14	-8.26	3,770.72	362.01	4,808.59	4,633.55	175.04	27.472		
7,419.21	7,234.00	7,206.00	7,206.00	36.37	144.52	-8.26	3,770.72	362.01	4,808.59	4,633.11	175.48	27.403		
7,450.00	7,264.77	7,236.77	7,236.77	36.46	145.14	172.08	3,770.72	362.01	4,809.41	4,633.23	176.18	27.298		
7,500.00	7,314.52	7,286.52	7,286.52	36.62	146.14	172.02	3,770.72	362.01	4,814.22	4,636.89	177.33	27.148		
7,550.00	7,363.66	7,335.66	7,335.66	36.81	147.13	171.90	3,770.72	362.01	4,823.31	4,644.84	178.47	27.026		
7,600.00	7,411.80	7,383.80	7,383.80	37.03	148.10	171.73	3,770.72	362.01	4,836.61	4,657.02	179.59	26.931		
7,650.00	7,458.60	7,430.60	7,430.60	37.29	149.04	171.49	3,770.72	362.01	4,854.01	4,673.33	180.69	26.864		
7,700.00	7,503.68	7,475.68	7,475.68	37.57	149.95	171.17	3,770.72	362.01	4,875.39	4,693.65	181.74	26.826		
7,750.00	7,546.72	7,518.72	7,518.72	37.89	150.81	170.76	3,770.72	362.01	4,900.58	4,717.83	182.75	26.816 SF		
7,800.00	7,587.37	7,559.37	7,559.37	38.23	151.63	170.23	3,770.72	362.01	4,929.40	4,745.69	183.70	26.834		
7,850.00	7,625.34	7,602.66	7,597.34	38.59	152.50	169.56	3,770.72	362.01	4,961.62	4,776.92	184.70	26.863		
7,900.00	7,660.33	7,632.33	7,632.33	38.99	153.10	168.69	3,770.72	362.01	4,997.00	4,811.59	185.41	26.952		
7,950.00	7,692.07	7,664.07	7,664.07	39.40	153.74	167.55	3,770.72	362.01	5,035.27	4,849.13	186.14	27.050		
8,000.00	7,720.33	7,707.67	7,692.33	39.85	154.61	166.03	3,770.72	362.01	5,076.14	4,889.04	187.10	27.130		
8,050.00	7,744.88	7,716.88	7,716.88	40.31	154.80	163.93	3,770.72	362.01	5,119.31	4,931.95	187.36	27.324		
8,100.00	7,765.55	7,737.55	7,737.55	40.79	155.21	160.91	3,770.72	362.01	5,164.44	4,976.62	187.82	27.496		
8,150.00	7,782.18	7,754.18	7,754.18	41.30	155.55	156.25	3,770.72	362.01	5,211.20	5,023.00	188.19	27.691		
8,200.00	7,794.63	7,766.63	7,766.63	41.81	155.80	148.45	3,770.72	362.01	5,259.22	5,070.75	188.46	27.906		
8,250.00	7,802.82	7,774.82	7,774.82	42.34	155.96	133.81	3,770.72	362.01	5,308.14	5,119.51	188.63	28.141		
8,300.00	7,806.68	7,778.68	7,778.68	42.88	156.04	105.12	3,770.72	362.01	5,357.59	5,168.89	188.69	28.393		
8,319.29	7,807.00	7,779.00	7,779.00	43.09	156.05	89.99	3,770.72	362.01	5,376.73	5,188.04	188.69	28.495		
8,400.00	7,807.00	7,779.00	7,779.00	43.98	156.05	89.99	3,770.72	362.01	5,456.83	5,268.18	188.65	28.926		
8,500.00	7,807.00	7,779.00	7,779.00	45.12	156.05	89.99	3,770.72	362.01	5,556.10	5,367.50	188.61	29.459		
8,600.00	7,806.99	7,778.99	7,778.99	46.31	156.05	89.99	3,770.72	362.01	5,655.40	5,466.84	188.56	29.992		
8,700.00	7,806.99	7,778.99	7,778.99	47.53	156.05	89.99	3,770.72	362.01	5,754.73	5,566.20	188.53	30.525		
8,800.00	7,806.99	7,778.99	7,778.99	48.78	156.05	89.99	3,770.72	362.01	5,854.07	5,665.58	188.49	31.058		
8,900.00	7,806.99	7,778.99	7,778.99	50.07	156.05	89.99	3,770.72	362.01	5,953.44	5,764.99	188.46	31.590		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	156.05	89.99	3,770.72	362.01	6,052.83	5,864.40	188.43	32.123		
9,100.00	7,806.98	7,778.98	7,778.98	52.72	156.05	89.99	3,770.72	362.01	6,152.24	5,963.84	188.40	32.655		
9,200.00	7,806.98	7,778.98	7,778.98	54.09	156.05	89.99	3,770.72	362.01	6,251.67	6,063.29	188.38	33.187		
9,300.00	7,806.98	7,778.98	7,778.98	55.48	156.05	89.99	3,770.72	362.01	6,351.12	6,162.76	188.36	33.718		
9,400.00	7,806.97	7,778.97	7,778.97	56.89	156.05	89.99	3,770.72	362.01	6,450.58	6,262.24	188.34	34.250		
9,500.00	7,806.97	7,778.97	7,778.97	58.32	156.05	89.99	3,770.72	362.01	6,550.06	6,361.74	188.32	34.781		
9,600.00	7,806.97	7,778.97	7,778.97	59.77	156.05	89.99	3,770.72	362.01	6,649.56	6,461.25	188.31	35.312		
9,700.00	7,806.97	7,778.97	7,778.97	61.23	156.05	89.99	3,770.72	362.01	6,749.07	6,560.77	188.30	35.842		
9,800.00	7,806.96	7,778.96	7,778.96	62.71	156.05	89.99	3,770.72	362.01	6,848.59	6,660.30	188.29	36.373		
9,900.00	7,806.96	7,778.96	7,778.96	64.21	156.05	89.99	3,770.72	362.01	6,948.13	6,759.85	188.28	36.903		
10,000.00	7,806.96	7,778.96	7,778.96	65.72	156.05	89.99	3,770.72	362.01	7,047.68	6,859.41	188.28	37.433		
10,100.00	7,806.96	7,778.96	7,778.96	67.24	156.05	89.99	3,770.72	362.01	7,147.25	6,958.97	188.27	37.962		
10,200.00	7,806.95	7,778.95	7,778.95	68.78	156.05	89.98	3,770.72	362.01	7,246.82	7,058.55	188.27	38.491		
10,300.00	7,806.95	7,778.95	7,778.95	70.32	156.05	89.98	3,770.72	362.01	7,346.41	7,158.14	188.27	39.020		
10,400.00	7,806.95	7,778.95	7,778.95	71.88	156.05	89.98	3,770.72	362.01	7,446.01	7,257.73	188.27	39.549		
10,500.00	7,806.95	7,778.95	7,778.95	73.45	156.05	89.98	3,770.72	362.01	7,545.62	7,357.34	188.28	40.077		
10,600.00	7,806.95	7,778.95	7,778.95	75.02	156.05	89.98	3,770.72	362.01	7,645.24	7,456.95	188.28	40.605		
10,700.00	7,806.94	7,778.94	7,778.94	76.61	156.05	89.98	3,770.72	362.01	7,744.87	7,556.57	188.29	41.132		
10,800.00	7,806.94	7,778.94	7,778.94	78.20	156.05	89.98	3,770.72	362.01	7,844.50	7,656.20	188.30	41.659		
10,900.00	7,806.94	7,778.94	7,778.94	79.80	156.05	89.98	3,770.72	362.01	7,944.15	7,755.84	188.31	42.186		
11,000.00	7,806.94	7,778.94	7,778.94	81.41	156.05	89.98	3,770.72	362.01	8,043.81	7,855.48	188.32	42.712		
11,100.00	7,806.93	7,778.93	7,778.93	83.02	156.05	89.98	3,770.72	362.01	8,143.47	7,955.13	188.34	43.238		
11,200.00	7,806.93	7,778.93	7,778.93	84.64	156.05	89.98	3,770.72	362.01	8,243.15	8,054.79	188.35	43.764		
11,300.00	7,806.93	7,778.93	7,778.93	86.27	156.05	89.98	3,770.72	362.01	8,342.83	8,154.46	188.37	44.289		
11,400.00	7,806.93	7,778.93	7,778.93	87.90	156.05	89.98	3,770.72	362.01	8,442.52	8,254.13	188.39	44.814		
11,500.00	7,806.92	7,778.92	7,778.92	89.54	156.05	89.98	3,770.72	362.01	8,542.21	8,353.80	188.41	45.339		
11,600.00	7,806.92	7,778.92	7,778.92	91.18	156.05	89.98	3,770.72	362.01	8,641.91	8,453.48	188.43	45.863		
11,700.00	7,806.92	7,778.92	7,778.92	92.83	156.05	89.98	3,770.72	362.01	8,741.62	8,553.17	188.45	46.386		
11,800.00	7,806.92	7,778.92	7,778.92	94.48	156.05	89.98	3,770.72	362.01	8,841.34	8,652.86	188.48	46.909		
11,900.00	7,806.91	7,778.91	7,778.91	96.14	156.05	89.98	3,770.72	362.01	8,941.06	8,752.56	188.50	47.432		
12,000.00	7,806.91	7,778.91	7,778.91	97.80	156.05	89.98	3,770.72	362.01	9,040.79	8,852.26	188.53	47.954		
12,100.00	7,806.91	7,778.91	7,778.91	99.46	156.05	89.98	3,770.72	362.01	9,140.52	8,951.97	188.56	48.476		
12,200.00	7,806.91	7,778.91	7,778.91	101.13	156.05	89.98	3,770.72	362.01	9,240.26	9,051.68	188.59	48.998		
12,300.00	7,806.90	7,778.90	7,778.90	102.80	156.05	89.98	3,770.72	362.01	9,340.01	9,151.39	188.62	49.519		
12,400.00	7,806.90	7,778.90	7,778.90	104.47	156.05	89.98	3,770.72	362.01	9,439.76	9,251.11	188.65	50.039		
12,500.00	7,806.90	7,778.90	7,778.90	106.15	156.05	89.98	3,770.72	362.01	9,539.52	9,350.84	188.68	50.559		
12,600.00	7,806.90	7,778.90	7,778.90	107.83	156.05	89.98	3,770.72	362.01	9,639.28	9,450.56	188.71	51.079		
12,700.00	7,806.89	7,778.89	7,778.89	109.52	156.05	89.98	3,770.72	362.01	9,739.05	9,550.30	188.75	51.598		
12,800.00	7,806.89	7,778.89	7,778.89	111.20	156.05	89.98	3,770.72	362.01	9,838.82	9,650.03	188.79	52.116		
12,900.00	7,806.89	7,778.89	7,778.89	112.89	156.05	89.98	3,770.72	362.01	9,938.59	9,749.77	188.82	52.634		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	23.00	23.00	0.00	0.27	-48.51	2,355.28	-2,663.11	3,555.21					
100.00	100.00	123.00	123.00	0.13	1.69	-48.51	2,355.28	-2,663.11	3,555.21	3,553.39	1.82	1,951.931		
200.00	200.00	223.00	223.00	0.49	3.94	-48.51	2,355.28	-2,663.11	3,555.21	3,550.78	4.43	802.907		
300.00	300.00	323.00	323.00	0.85	6.01	-48.51	2,355.28	-2,663.11	3,555.21	3,548.35	6.86	518.481		
400.00	400.00	423.00	423.00	1.21	8.04	-48.51	2,355.28	-2,663.11	3,555.21	3,545.95	9.25	384.149		
500.00	500.00	523.00	523.00	1.57	10.07	-48.51	2,355.28	-2,663.11	3,555.21	3,543.57	11.64	305.407		
600.00	600.00	623.00	623.00	1.93	12.09	-48.51	2,355.28	-2,663.11	3,555.21	3,541.19	14.02	253.557		
700.00	700.00	723.00	723.00	2.29	14.11	-48.51	2,355.28	-2,663.11	3,555.21	3,538.81	16.40	216.799		
800.00	800.00	823.00	823.00	2.64	16.13	-48.51	2,355.28	-2,663.11	3,555.21	3,536.43	18.77	189.370		
900.00	900.00	923.00	923.00	3.00	18.15	-48.51	2,355.28	-2,663.11	3,555.21	3,534.06	21.15	168.112		
1,000.00	1,000.00	1,023.00	1,023.00	3.36	20.16	-48.51	2,355.28	-2,663.11	3,555.21	3,531.69	23.52	151.151		
1,100.00	1,100.00	1,123.00	1,123.00	3.72	22.17	-48.51	2,355.28	-2,663.11	3,555.21	3,529.31	25.89	137.302 CC		
1,200.00	1,199.98	1,222.98	1,222.98	4.06	24.19	178.30	2,355.28	-2,663.11	3,556.95	3,528.70	28.25	125.910 ES		
1,300.00	1,299.84	1,322.84	1,322.84	4.40	26.20	178.30	2,355.28	-2,663.11	3,562.18	3,531.59	30.59	116.435		
1,400.00	1,399.45	1,422.45	1,422.45	4.74	28.20	178.30	2,355.28	-2,663.11	3,570.89	3,537.96	32.94	108.418		
1,500.00	1,498.70	1,521.70	1,521.70	5.09	30.20	178.30	2,355.28	-2,663.11	3,583.08	3,547.80	35.27	101.576		
1,600.00	1,597.47	1,620.47	1,620.47	5.46	32.19	178.30	2,355.28	-2,663.11	3,598.71	3,561.11	37.61	95.695		
1,700.00	1,695.62	1,718.62	1,718.62	5.85	34.16	178.30	2,355.28	-2,663.11	3,617.78	3,577.86	39.93	90.609		
1,800.00	1,793.06	1,816.06	1,816.06	6.27	36.12	178.29	2,355.28	-2,663.11	3,640.27	3,598.03	42.24	86.187		
1,867.07	1,857.94	1,880.94	1,880.94	6.57	37.43	178.29	2,355.28	-2,663.11	3,657.25	3,613.47	43.78	83.539		
1,900.00	1,889.69	1,912.69	1,912.69	6.72	38.07	178.29	2,355.28	-2,663.11	3,665.96	3,621.42	44.53	82.318		
2,000.00	1,986.13	2,009.13	2,009.13	7.19	40.01	178.31	2,355.28	-2,663.11	3,692.40	3,645.58	46.82	78.859		
2,100.00	2,082.57	2,105.57	2,105.57	7.68	41.95	178.32	2,355.28	-2,663.11	3,718.85	3,669.73	49.12	75.716		
2,200.00	2,179.00	2,202.00	2,202.00	8.18	43.89	178.33	2,355.28	-2,663.11	3,745.29	3,693.88	51.41	72.847		
2,300.00	2,275.44	2,301.56	2,298.44	8.69	45.89	178.34	2,355.28	-2,663.11	3,771.74	3,717.97	53.78	70.138		
2,400.00	2,371.88	2,405.12	2,394.88	9.21	47.97	178.35	2,355.28	-2,663.11	3,798.19	3,741.97	56.22	67.557		
2,500.00	2,468.31	2,508.69	2,491.31	9.74	50.06	178.37	2,355.28	-2,663.11	3,824.64	3,765.96	58.67	65.187		
2,600.00	2,564.75	2,587.75	2,587.75	10.28	51.65	178.38	2,355.28	-2,663.11	3,851.08	3,790.45	60.63	63.518		
2,700.00	2,661.19	2,684.19	2,684.19	10.82	53.59	178.39	2,355.28	-2,663.11	3,877.53	3,814.59	62.94	61.607		
2,800.00	2,757.62	2,780.62	2,780.62	11.37	55.53	178.40	2,355.28	-2,663.11	3,903.98	3,838.73	65.25	59.830		
2,900.00	2,854.06	2,877.06	2,877.06	11.92	57.47	178.41	2,355.28	-2,663.11	3,930.42	3,862.86	67.56	58.173		
3,000.00	2,950.50	2,973.50	2,973.50	12.47	59.41	178.42	2,355.28	-2,663.11	3,956.87	3,886.99	69.88	56.625		
3,100.00	3,046.93	3,069.93	3,069.93	13.03	61.34	178.43	2,355.28	-2,663.11	3,983.32	3,911.13	72.19	55.175		
3,200.00	3,143.37	3,166.37	3,166.37	13.59	63.28	178.44	2,355.28	-2,663.11	4,009.77	3,935.26	74.51	53.814		
3,300.00	3,239.81	3,262.81	3,262.81	14.15	65.22	178.45	2,355.28	-2,663.11	4,036.22	3,959.39	76.83	52.535		
3,400.00	3,336.24	3,359.24	3,359.24	14.72	67.16	178.46	2,355.28	-2,663.11	4,062.66	3,983.52	79.15	51.330		
3,500.00	3,432.68	3,455.68	3,455.68	15.28	69.10	178.47	2,355.28	-2,663.11	4,089.11	4,007.64	81.47	50.193		
3,600.00	3,529.12	3,552.12	3,552.12	15.85	71.04	178.48	2,355.28	-2,663.11	4,115.56	4,031.77	83.79	49.119		
3,700.00	3,625.55	3,648.55	3,648.55	16.42	72.98	178.49	2,355.28	-2,663.11	4,142.01	4,055.90	86.11	48.102		
3,800.00	3,721.99	3,744.99	3,744.99	16.99	74.92	178.50	2,355.28	-2,663.11	4,168.46	4,080.03	88.43	47.138		
3,900.00	3,818.43	3,841.43	3,841.43	17.56	76.86	178.51	2,355.28	-2,663.11	4,194.91	4,104.15	90.75	46.223		
4,000.00	3,914.86	3,937.86	3,937.86	18.14	78.80	178.52	2,355.28	-2,663.11	4,221.35	4,128.28	93.08	45.354		
4,100.00	4,011.30	4,034.30	4,034.30	18.71	80.74	178.53	2,355.28	-2,663.11	4,247.80	4,152.40	95.40	44.527		
4,200.00	4,107.74	4,130.74	4,130.74	19.29	82.68	178.54	2,355.28	-2,663.11	4,274.25	4,176.53	97.72	43.738		
4,300.00	4,204.17	4,227.17	4,227.17	19.86	84.62	178.55	2,355.28	-2,663.11	4,300.70	4,200.65	100.05	42.987		
4,400.00	4,300.61	4,323.61	4,323.61	20.44	86.56	178.56	2,355.28	-2,663.11	4,327.15	4,224.78	102.37	42.269		
4,500.00	4,397.05	4,420.05	4,420.05	21.02	88.50	178.56	2,355.28	-2,663.11	4,353.60	4,248.90	104.70	41.583		
4,600.00	4,493.48	4,516.48	4,516.48	21.59	90.44	178.57	2,355.28	-2,663.11	4,380.05	4,273.03	107.02	40.926		
4,700.00	4,589.92	4,612.92	4,612.92	22.17	92.38	178.58	2,355.28	-2,663.11	4,406.50	4,297.15	109.35	40.298		
4,800.00	4,686.36	4,709.36	4,709.36	22.75	94.32	178.59	2,355.28	-2,663.11	4,432.95	4,321.27	111.67	39.695		
4,900.00	4,782.79	4,805.79	4,805.79	23.33	96.26	178.60	2,355.28	-2,663.11	4,459.40	4,345.40	114.00	39.117		
5,000.00	4,879.23	4,902.23	4,902.23	23.91	98.20	178.61	2,355.28	-2,663.11	4,485.85	4,369.52	116.33	38.562		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	5,001.33	4,998.67	24.49	100.19	178.61	2,355.28	-2,663.11	4,512.30	4,393.59	118.71	38.011		
5,200.00	5,072.10	5,104.90	5,095.10	25.07	102.27	178.62	2,355.28	-2,663.11	4,538.75	4,417.57	121.18	37.455		
5,300.00	5,168.54	5,208.46	5,191.54	25.66	104.35	178.63	2,355.28	-2,663.11	4,565.20	4,441.55	123.65	36.920		
5,400.00	5,264.98	5,287.98	5,287.98	26.24	105.95	178.64	2,355.28	-2,663.11	4,591.65	4,466.01	125.64	36.546		
5,500.00	5,361.41	5,384.41	5,384.41	26.82	107.89	178.65	2,355.28	-2,663.11	4,618.10	4,490.13	127.97	36.088		
5,600.00	5,457.85	5,480.85	5,480.85	27.40	109.83	178.65	2,355.28	-2,663.11	4,644.55	4,514.25	130.30	35.646		
5,700.00	5,554.29	5,577.29	5,577.29	27.99	111.77	178.66	2,355.28	-2,663.11	4,671.00	4,538.37	132.62	35.220		
5,800.00	5,650.72	5,673.72	5,673.72	28.57	113.71	178.67	2,355.28	-2,663.11	4,697.45	4,562.49	134.95	34.808		
5,900.00	5,747.16	5,770.16	5,770.16	29.15	115.65	178.68	2,355.28	-2,663.11	4,723.90	4,586.62	137.28	34.410		
6,000.00	5,843.60	5,866.60	5,866.60	29.74	117.59	178.68	2,355.28	-2,663.11	4,750.35	4,610.74	139.61	34.026		
6,100.00	5,940.03	5,963.03	5,963.03	30.32	119.53	178.69	2,355.28	-2,663.11	4,776.80	4,634.86	141.94	33.654		
6,200.00	6,036.47	6,059.47	6,059.47	30.90	121.47	178.70	2,355.28	-2,663.11	4,803.25	4,658.98	144.27	33.293		
6,300.00	6,132.91	6,155.91	6,155.91	31.49	123.41	178.71	2,355.28	-2,663.11	4,829.70	4,683.10	146.60	32.945		
6,400.00	6,229.34	6,252.34	6,252.34	32.07	125.35	178.71	2,355.28	-2,663.11	4,856.15	4,707.22	148.93	32.607		
6,500.00	6,325.78	6,348.78	6,348.78	32.66	127.29	178.72	2,355.28	-2,663.11	4,882.60	4,731.34	151.26	32.280		
6,552.14	6,376.06	6,400.94	6,399.06	32.96	128.33	178.72	2,355.28	-2,663.11	4,896.39	4,743.88	152.51	32.105		
6,600.00	6,422.32	6,445.32	6,445.32	33.24	129.23	178.73	2,355.28	-2,663.11	4,908.67	4,755.08	153.59	31.959		
6,700.00	6,519.60	6,542.60	6,542.60	33.78	131.18	178.75	2,355.28	-2,663.11	4,931.81	4,775.88	155.93	31.628		
6,800.00	6,617.63	6,640.63	6,640.63	34.27	133.16	178.76	2,355.28	-2,663.11	4,951.54	4,793.26	158.28	31.283		
6,900.00	6,716.28	6,739.28	6,739.28	34.72	135.14	178.77	2,355.28	-2,663.11	4,967.84	4,807.21	160.63	30.926		
7,000.00	6,815.45	6,838.45	6,838.45	35.13	137.13	178.78	2,355.28	-2,663.11	4,980.69	4,817.70	162.99	30.558		
7,100.00	6,915.00	6,938.00	6,938.00	35.49	139.14	178.79	2,355.28	-2,663.11	4,990.07	4,824.73	165.34	30.180		
7,200.00	7,014.82	7,037.82	7,037.82	35.81	141.14	178.79	2,355.28	-2,663.11	4,995.97	4,828.28	167.69	29.792		
7,300.00	7,114.79	7,137.79	7,137.79	36.09	143.15	178.79	2,355.28	-2,663.11	4,998.39	4,828.35	170.04	29.396		
7,319.21	7,134.00	7,157.00	7,157.00	36.14	143.54	-48.02	2,355.28	-2,663.11	4,998.45	4,827.97	170.48	29.319		
7,400.00	7,214.79	7,237.79	7,237.79	36.33	145.16	-48.02	2,355.28	-2,663.11	4,998.45	4,826.10	172.35	29.001		
7,419.21	7,234.00	7,257.00	7,257.00	36.37	145.55	-48.02	2,355.28	-2,663.11	4,998.45	4,825.65	172.80	28.926		
7,450.00	7,264.77	7,287.77	7,287.77	36.46	146.17	132.29	2,355.28	-2,663.11	4,999.01	4,825.49	173.52	28.810		
7,500.00	7,314.52	7,337.52	7,337.52	36.62	147.17	132.09	2,355.28	-2,663.11	5,002.28	4,827.60	174.69	28.635		
7,550.00	7,363.66	7,386.66	7,386.66	36.81	148.16	131.70	2,355.28	-2,663.11	5,008.47	4,832.62	175.86	28.481		
7,600.00	7,411.80	7,434.80	7,434.80	37.03	149.13	131.12	2,355.28	-2,663.11	5,017.54	4,840.53	177.01	28.346		
7,650.00	7,458.60	7,481.60	7,481.60	37.29	150.07	130.34	2,355.28	-2,663.11	5,029.44	4,851.30	178.14	28.233		
7,700.00	7,503.68	7,526.68	7,526.68	37.57	150.97	129.34	2,355.28	-2,663.11	5,044.10	4,864.86	179.24	28.141		
7,750.00	7,546.72	7,569.72	7,569.72	37.89	151.84	128.10	2,355.28	-2,663.11	5,061.44	4,881.14	180.30	28.072		
7,800.00	7,587.37	7,610.37	7,610.37	38.23	152.66	126.61	2,355.28	-2,663.11	5,081.36	4,900.05	181.31	28.026		
7,850.00	7,625.34	7,648.34	7,648.34	38.59	153.42	124.83	2,355.28	-2,663.11	5,103.72	4,921.46	182.26	28.002		
7,900.00	7,660.33	7,683.33	7,683.33	38.99	154.12	122.73	2,355.28	-2,663.11	5,128.41	4,945.26	183.15	28.001 SF		
7,950.00	7,692.07	7,715.07	7,715.07	39.40	154.76	120.30	2,355.28	-2,663.11	5,155.25	4,971.29	183.96	28.023		
8,000.00	7,720.33	7,743.33	7,743.33	39.85	155.33	117.48	2,355.28	-2,663.11	5,184.09	4,999.38	184.70	28.067		
8,050.00	7,744.88	7,767.88	7,767.88	40.31	155.82	114.27	2,355.28	-2,663.11	5,214.71	5,029.35	185.35	28.134		
8,100.00	7,765.55	7,788.55	7,788.55	40.79	156.24	110.62	2,355.28	-2,663.11	5,246.92	5,061.00	185.92	28.222		
8,150.00	7,782.18	7,805.18	7,805.18	41.30	156.57	106.55	2,355.28	-2,663.11	5,280.48	5,094.10	186.39	28.331		
8,200.00	7,794.63	7,817.63	7,817.63	41.81	156.82	102.06	2,355.28	-2,663.11	5,315.17	5,128.41	186.76	28.460		
8,250.00	7,802.82	7,825.82	7,825.82	42.34	156.99	97.20	2,355.28	-2,663.11	5,350.72	5,163.68	187.03	28.609		
8,300.00	7,806.68	7,829.68	7,829.68	42.88	157.07	92.04	2,355.28	-2,663.11	5,386.86	5,199.66	187.20	28.775		
8,319.29	7,807.00	7,830.00	7,830.00	43.09	157.07	90.00	2,355.28	-2,663.11	5,400.91	5,213.67	187.24	28.844		
8,400.00	7,807.00	7,830.00	7,830.00	43.98	157.07	90.00	2,355.28	-2,663.11	5,460.05	5,272.67	187.38	29.138		
8,500.00	7,807.00	7,830.00	7,830.00	45.12	157.07	90.00	2,355.28	-2,663.11	5,534.07	5,346.50	187.57	29.504		
8,600.00	7,806.99	7,829.99	7,829.99	46.31	157.07	90.00	2,355.28	-2,663.11	5,608.91	5,421.13	187.77	29.871		
8,700.00	7,806.99	7,829.99	7,829.99	47.53	157.07	90.00	2,355.28	-2,663.11	5,684.51	5,496.52	187.99	30.239		
8,800.00	7,806.99	7,829.99	7,829.99	48.78	157.07	90.00	2,355.28	-2,663.11	5,760.86	5,572.65	188.21	30.608		
8,900.00	7,806.99	7,829.99	7,829.99	50.07	157.07	90.00	2,355.28	-2,663.11	5,837.93	5,649.48	188.45	30.979		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	157.07	90.00	2,355.28	-2,663.11	5,915.68	5,726.98	188.69	31.351		
9,100.00	7,806.98	7,829.98	7,829.98	52.72	157.07	90.00	2,355.28	-2,663.11	5,994.09	5,805.14	188.94	31.725		
9,200.00	7,806.98	7,829.98	7,829.98	54.09	157.07	90.00	2,355.28	-2,663.11	6,073.13	5,883.93	189.20	32.099		
9,300.00	7,806.98	7,829.98	7,829.98	55.48	157.07	90.00	2,355.28	-2,663.11	6,152.79	5,963.33	189.46	32.476		
9,400.00	7,806.97	7,829.97	7,829.97	56.89	157.07	90.00	2,355.28	-2,663.11	6,233.03	6,043.30	189.72	32.853		
9,500.00	7,806.97	7,829.97	7,829.97	58.32	157.07	90.00	2,355.28	-2,663.11	6,313.83	6,123.84	189.99	33.232		
9,600.00	7,806.97	7,829.97	7,829.97	59.77	157.07	90.00	2,355.28	-2,663.11	6,395.18	6,204.92	190.26	33.613		
9,700.00	7,806.97	7,829.97	7,829.97	61.23	157.07	90.00	2,355.28	-2,663.11	6,477.05	6,286.52	190.53	33.994		
9,800.00	7,806.96	7,829.96	7,829.96	62.71	157.07	90.00	2,355.28	-2,663.11	6,559.42	6,368.62	190.81	34.377		
9,900.00	7,806.96	7,829.96	7,829.96	64.21	157.07	90.00	2,355.28	-2,663.11	6,642.28	6,451.20	191.08	34.762		
10,000.00	7,806.96	7,829.96	7,829.96	65.72	157.07	90.00	2,355.28	-2,663.11	6,725.60	6,534.25	191.35	35.148		
10,100.00	7,806.96	7,829.96	7,829.96	67.24	157.07	90.00	2,355.28	-2,663.11	6,809.37	6,617.75	191.63	35.535		
10,200.00	7,806.95	7,829.95	7,829.95	68.78	157.07	90.00	2,355.28	-2,663.11	6,893.58	6,701.68	191.90	35.923		
10,300.00	7,806.95	7,829.95	7,829.95	70.32	157.07	90.00	2,355.28	-2,663.11	6,978.20	6,786.03	192.17	36.313		
10,400.00	7,806.95	7,829.95	7,829.95	71.88	157.07	90.00	2,355.28	-2,663.11	7,063.22	6,870.78	192.44	36.704		
10,500.00	7,806.95	7,829.95	7,829.95	73.45	157.07	90.00	2,355.28	-2,663.11	7,148.63	6,955.93	192.71	37.096		
10,600.00	7,806.95	7,829.95	7,829.95	75.02	157.07	90.00	2,355.28	-2,663.11	7,234.42	7,041.45	192.97	37.489		
10,700.00	7,806.94	7,829.94	7,829.94	76.61	157.07	90.00	2,355.28	-2,663.11	7,320.56	7,127.33	193.24	37.884		
10,800.00	7,806.94	7,829.94	7,829.94	78.20	157.07	90.00	2,355.28	-2,663.11	7,407.06	7,213.56	193.50	38.280		
10,900.00	7,806.94	7,829.94	7,829.94	79.80	157.07	90.00	2,355.28	-2,663.11	7,493.89	7,300.13	193.76	38.676		
11,000.00	7,806.94	7,829.94	7,829.94	81.41	157.07	90.00	2,355.28	-2,663.11	7,581.04	7,387.03	194.02	39.074		
11,100.00	7,806.93	7,829.93	7,829.93	83.02	157.07	90.00	2,355.28	-2,663.11	7,668.51	7,474.24	194.27	39.473		
11,200.00	7,806.93	7,829.93	7,829.93	84.64	157.07	90.00	2,355.28	-2,663.11	7,756.28	7,561.76	194.52	39.873		
11,300.00	7,806.93	7,829.93	7,829.93	86.27	157.07	90.00	2,355.28	-2,663.11	7,844.35	7,649.57	194.77	40.274		
11,400.00	7,806.93	7,829.93	7,829.93	87.90	157.07	90.00	2,355.28	-2,663.11	7,932.69	7,737.67	195.02	40.676		
11,500.00	7,806.92	7,829.92	7,829.92	89.54	157.07	90.00	2,355.28	-2,663.11	8,021.31	7,826.05	195.26	41.079		
11,600.00	7,806.92	7,829.92	7,829.92	91.18	157.07	90.00	2,355.28	-2,663.11	8,110.20	7,914.69	195.51	41.483		
11,700.00	7,806.92	7,829.92	7,829.92	92.83	157.07	90.00	2,355.28	-2,663.11	8,199.34	8,003.60	195.74	41.888		
11,800.00	7,806.92	7,829.92	7,829.92	94.48	157.07	90.00	2,355.28	-2,663.11	8,288.73	8,092.75	195.98	42.294		
11,900.00	7,806.91	7,829.91	7,829.91	96.14	157.07	90.00	2,355.28	-2,663.11	8,378.36	8,182.14	196.21	42.700		
12,000.00	7,806.91	7,829.91	7,829.91	97.80	157.07	90.00	2,355.28	-2,663.11	8,468.22	8,271.77	196.44	43.108		
12,100.00	7,806.91	7,829.91	7,829.91	99.46	157.07	90.00	2,355.28	-2,663.11	8,558.30	8,361.63	196.67	43.516		
12,200.00	7,806.91	7,829.91	7,829.91	101.13	157.07	90.00	2,355.28	-2,663.11	8,648.61	8,451.71	196.90	43.925		
12,300.00	7,806.90	7,829.90	7,829.90	102.80	157.07	90.00	2,355.28	-2,663.11	8,739.12	8,542.00	197.12	44.334		
12,400.00	7,806.90	7,829.90	7,829.90	104.47	157.07	90.00	2,355.28	-2,663.11	8,829.84	8,632.50	197.34	44.745		
12,500.00	7,806.90	7,829.90	7,829.90	106.15	157.07	90.00	2,355.28	-2,663.11	8,920.76	8,723.20	197.56	45.156		
12,600.00	7,806.90	7,829.90	7,829.90	107.83	157.07	90.00	2,355.28	-2,663.11	9,011.87	8,814.10	197.77	45.567		
12,700.00	7,806.89	7,829.89	7,829.89	109.52	157.07	90.00	2,355.28	-2,663.11	9,103.17	8,905.19	197.98	45.980		
12,800.00	7,806.89	7,829.89	7,829.89	111.20	157.07	90.00	2,355.28	-2,663.11	9,194.65	8,996.45	198.19	46.393		
12,900.00	7,806.89	7,829.89	7,829.89	112.89	157.07	90.00	2,355.28	-2,663.11	9,286.30	9,087.90	198.40	46.806		
13,000.00	7,806.89	7,829.89	7,829.89	114.59	157.07	90.00	2,355.28	-2,663.11	9,378.12	9,179.52	198.60	47.220		
13,100.00	7,806.88	7,829.88	7,829.88	116.28	157.07	90.00	2,355.28	-2,663.11	9,470.11	9,271.31	198.81	47.635		
13,200.00	7,806.88	7,829.88	7,829.88	117.98	157.07	90.00	2,355.28	-2,663.11	9,562.26	9,363.26	199.01	48.050		
13,300.00	7,806.88	7,829.88	7,829.88	119.68	157.07	90.00	2,355.28	-2,663.11	9,654.57	9,455.37	199.20	48.466		
13,400.00	7,806.88	7,829.88	7,829.88	121.38	157.07	90.00	2,355.28	-2,663.11	9,747.03	9,547.63	199.40	48.882		
13,500.00	7,806.88	7,829.88	7,829.88	123.08	157.07	90.00	2,355.28	-2,663.11	9,839.64	9,640.05	199.59	49.299		
13,600.00	7,806.87	7,829.87	7,829.87	124.79	157.07	90.00	2,355.28	-2,663.11	9,932.39	9,732.60	199.78	49.716		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	91.47	-14.46	564.28	564.47				
100.00	100.00	103.00	103.00	0.13	1.25	91.47	-14.46	564.28	564.47	563.08	1.39	406.644	
200.00	200.00	203.00	203.00	0.49	3.54	91.47	-14.46	564.28	564.47	560.44	4.03	139.971	
300.00	300.00	303.00	303.00	0.85	5.62	91.47	-14.46	564.28	564.47	558.00	6.47	87.261	
400.00	400.00	403.00	403.00	1.21	7.66	91.47	-14.46	564.28	564.47	555.60	8.87	63.645	
500.00	500.00	503.00	503.00	1.57	9.69	91.47	-14.46	564.28	564.47	553.21	11.26	50.146	
600.00	600.00	603.00	603.00	1.93	11.71	91.47	-14.46	564.28	564.47	550.83	13.64	41.391	
700.00	700.00	703.00	703.00	2.29	13.73	91.47	-14.46	564.28	564.47	548.45	16.02	35.246	
800.00	800.00	803.00	803.00	2.64	15.75	91.47	-14.46	564.28	564.47	546.08	18.39	30.693	
900.00	900.00	903.00	903.00	3.00	17.76	91.47	-14.46	564.28	564.47	543.70	20.76	27.184	
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	91.47	-14.46	564.28	564.47	541.33	23.14	24.396	
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	91.47	-14.46	564.28	564.47	538.96	25.51	22.127	
1,200.00	1,199.98	1,202.98	1,202.98	4.06	23.80	-41.85	-14.46	564.28	563.17	535.30	27.87	20.209	
1,300.00	1,299.84	1,302.84	1,302.84	4.40	25.81	-42.26	-14.46	564.28	559.28	529.07	30.21	18.513	
1,400.00	1,399.45	1,402.45	1,402.45	4.74	27.82	-42.96	-14.46	564.28	552.85	520.30	32.55	16.983	
1,500.00	1,498.70	1,501.70	1,501.70	5.09	29.82	-43.95	-14.46	564.28	543.97	509.08	34.90	15.588	
1,600.00	1,597.47	1,600.47	1,600.47	5.46	31.80	-45.27	-14.46	564.28	532.77	495.53	37.24	14.306	
1,700.00	1,695.62	1,701.38	1,698.62	5.85	33.84	-46.95	-14.46	564.28	519.41	479.77	39.64	13.103	
1,800.00	1,793.06	1,803.94	1,796.06	6.27	35.90	-49.02	-14.46	564.28	504.14	462.05	42.09	11.976	
1,867.07	1,857.94	1,860.94	1,860.94	6.57	37.05	-50.66	-14.46	564.28	492.97	449.46	43.52	11.328	
1,900.00	1,889.69	1,907.31	1,892.69	6.72	37.98	-51.44	-14.46	564.28	487.38	442.79	44.59	10.930	
2,000.00	1,986.13	1,989.13	1,989.13	7.19	39.62	-53.90	-14.46	564.28	470.96	424.29	46.68	10.090	
2,100.00	2,082.57	2,085.57	2,085.57	7.68	41.56	-56.52	-14.46	564.28	455.49	406.41	49.08	9.281	
2,200.00	2,179.00	2,182.00	2,182.00	8.18	43.50	-59.31	-14.46	564.28	441.07	389.56	51.51	8.563	
2,300.00	2,275.44	2,278.44	2,278.44	8.69	45.44	-62.28	-14.46	564.28	427.80	373.84	53.96	7.928	
2,400.00	2,371.88	2,374.88	2,374.88	9.21	47.38	-65.41	-14.46	564.28	415.78	359.36	56.43	7.368	
2,500.00	2,468.31	2,471.31	2,471.31	9.74	49.32	-68.71	-14.46	564.28	405.15	346.23	58.92	6.876	
2,600.00	2,564.75	2,567.75	2,567.75	10.28	51.26	-72.16	-14.46	564.28	396.00	334.57	61.42	6.447	
2,700.00	2,661.19	2,664.19	2,664.19	10.82	53.20	-75.76	-14.46	564.28	388.43	324.49	63.94	6.075	
2,800.00	2,757.62	2,760.62	2,760.62	11.37	55.14	-79.47	-14.46	564.28	382.55	316.09	66.46	5.756	
2,900.00	2,854.06	2,857.06	2,857.06	11.92	57.08	-83.27	-14.46	564.28	378.44	309.46	68.98	5.486	
3,000.00	2,950.50	2,953.50	2,953.50	12.47	59.02	-87.13	-14.46	564.28	376.14	304.65	71.49	5.261	
3,073.75	3,021.62	3,024.62	3,024.62	12.88	60.45	-90.00	-14.46	564.28	375.64	302.30	73.34	5.122 CC	
3,100.00	3,046.93	3,049.93	3,049.93	13.03	60.96	-91.02	-14.46	564.28	375.70	301.71	73.99	5.078	
3,200.00	3,143.37	3,146.37	3,146.37	13.59	62.90	-94.90	-14.46	564.28	377.12	300.65	76.47	4.932 ES	
3,300.00	3,239.81	3,242.81	3,242.81	14.15	64.84	-98.74	-14.46	564.28	380.37	301.45	78.93	4.819	
3,400.00	3,336.24	3,339.24	3,339.24	14.72	66.78	-102.49	-14.46	564.28	385.42	304.06	81.36	4.737	
3,500.00	3,432.68	3,435.68	3,435.68	15.28	68.72	-106.15	-14.46	564.28	392.20	308.43	83.77	4.682	
3,600.00	3,529.12	3,532.12	3,532.12	15.85	70.66	-109.67	-14.46	564.28	400.61	314.46	86.15	4.650	
3,700.00	3,625.55	3,628.55	3,628.55	16.42	72.60	-113.04	-14.46	564.28	410.55	322.05	88.50	4.639 SF	
3,800.00	3,721.99	3,724.99	3,724.99	16.99	74.54	-116.26	-14.46	564.28	421.92	331.09	90.84	4.645	
3,900.00	3,818.43	3,821.43	3,821.43	17.56	76.48	-119.30	-14.46	564.28	434.61	341.46	93.15	4.666	
4,000.00	3,914.86	3,917.86	3,917.86	18.14	78.42	-122.18	-14.46	564.28	448.50	353.05	95.45	4.699	
4,100.00	4,011.30	4,014.30	4,014.30	18.71	80.36	-124.88	-14.46	564.28	463.49	365.75	97.74	4.742	
4,200.00	4,107.74	4,110.74	4,110.74	19.29	82.30	-127.42	-14.46	564.28	479.47	379.46	100.01	4.794	
4,300.00	4,204.17	4,207.17	4,207.17	19.86	84.24	-129.79	-14.46	564.28	496.34	394.06	102.28	4.853	
4,400.00	4,300.61	4,303.61	4,303.61	20.44	86.18	-132.01	-14.46	564.28	514.03	409.48	104.54	4.917	
4,500.00	4,397.05	4,400.05	4,400.05	21.02	88.12	-134.09	-14.46	564.28	532.44	425.64	106.80	4.985	
4,600.00	4,493.48	4,503.52	4,496.48	21.59	90.20	-136.03	-14.46	564.28	551.50	442.30	109.20	5.050	
4,700.00	4,589.92	4,607.08	4,592.92	22.17	92.28	-137.85	-14.46	564.28	571.16	459.56	111.60	5.118	
4,800.00	4,686.36	4,689.36	4,689.36	22.75	93.93	-139.54	-14.46	564.28	591.34	477.78	113.57	5.207	
4,900.00	4,782.79	4,785.79	4,785.79	23.33	95.87	-141.13	-14.46	564.28	612.01	496.18	115.82	5.284	

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	4,879.23	4,882.23	4,882.23	23.91	97.81	-142.61	-14.46	564.28	633.10	515.02	118.08	5.362	
5,100.00	4,975.67	4,978.67	4,978.67	24.49	99.75	-144.00	-14.46	564.28	654.59	534.25	120.34	5.439	
5,200.00	5,072.10	5,075.10	5,075.10	25.07	101.69	-145.30	-14.46	564.28	676.43	553.82	122.60	5.517	
5,300.00	5,168.54	5,171.54	5,171.54	25.66	103.63	-146.52	-14.46	564.28	698.58	573.72	124.87	5.595	
5,400.00	5,264.98	5,267.98	5,267.98	26.24	105.57	-147.67	-14.46	564.28	721.03	593.90	127.13	5.671	
5,500.00	5,361.41	5,364.41	5,364.41	26.82	107.51	-148.75	-14.46	564.28	743.74	614.34	129.40	5.748	
5,600.00	5,457.85	5,460.85	5,460.85	27.40	109.45	-149.77	-14.46	564.28	766.69	635.02	131.67	5.823	
5,700.00	5,554.29	5,557.29	5,557.29	27.99	111.39	-150.73	-14.46	564.28	789.86	655.92	133.95	5.897	
5,800.00	5,650.72	5,653.72	5,653.72	28.57	113.33	-151.63	-14.46	564.28	813.24	677.01	136.22	5.970	
5,900.00	5,747.16	5,750.16	5,750.16	29.15	115.27	-152.48	-14.46	564.28	836.79	698.29	138.50	6.042	
6,000.00	5,843.60	5,846.60	5,846.60	29.74	117.21	-153.29	-14.46	564.28	860.51	719.73	140.78	6.112	
6,100.00	5,940.03	5,943.03	5,943.03	30.32	119.15	-154.06	-14.46	564.28	884.39	741.33	143.07	6.182	
6,200.00	6,036.47	6,039.47	6,039.47	30.90	121.09	-154.78	-14.46	564.28	908.41	763.06	145.35	6.250	
6,300.00	6,132.91	6,135.91	6,135.91	31.49	123.03	-155.47	-14.46	564.28	932.57	784.93	147.64	6.317	
6,400.00	6,229.34	6,232.34	6,232.34	32.07	124.96	-156.12	-14.46	564.28	956.84	806.91	149.93	6.382	
6,500.00	6,325.78	6,328.78	6,328.78	32.66	126.90	-156.75	-14.46	564.28	981.23	829.01	152.22	6.446	
6,552.14	6,376.06	6,379.06	6,379.06	32.96	127.92	-157.06	-14.46	564.28	993.99	840.57	153.41	6.479	
6,600.00	6,422.32	6,425.32	6,425.32	33.24	128.85	-157.42	-14.46	564.28	1,005.36	850.85	154.51	6.507	
6,700.00	6,519.60	6,522.60	6,522.60	33.78	130.80	-158.08	-14.46	564.28	1,026.87	870.05	156.82	6.548	
6,800.00	6,617.63	6,620.63	6,620.63	34.27	132.77	-158.62	-14.46	564.28	1,045.27	886.13	159.14	6.568	
6,900.00	6,716.28	6,719.28	6,719.28	34.72	134.76	-159.05	-14.46	564.28	1,060.50	899.04	161.46	6.568	
7,000.00	6,815.45	6,818.45	6,818.45	35.13	136.75	-159.38	-14.46	564.28	1,072.53	908.73	163.79	6.548	
7,100.00	6,915.00	6,918.00	6,918.00	35.49	138.75	-159.62	-14.46	564.28	1,081.32	915.19	166.13	6.509	
7,200.00	7,014.82	7,017.82	7,017.82	35.81	140.76	-159.76	-14.46	564.28	1,086.86	918.40	168.46	6.452	
7,300.00	7,114.79	7,117.79	7,117.79	36.09	142.77	-159.82	-14.46	564.28	1,089.12	918.34	170.78	6.377	
7,319.21	7,134.00	7,137.00	7,137.00	36.14	143.16	-26.64	-14.46	564.28	1,089.18	917.96	171.23	6.361	
7,400.00	7,214.79	7,217.79	7,217.79	36.33	144.78	-26.64	-14.46	564.28	1,089.18	916.09	173.09	6.293	
7,419.21	7,234.00	7,237.00	7,237.00	36.37	145.17	-26.64	-14.46	564.28	1,089.18	915.65	173.54	6.276	
7,450.00	7,264.77	7,267.77	7,267.77	36.46	145.79	153.69	-14.46	564.28	1,089.93	915.68	174.25	6.255	
7,500.00	7,314.52	7,317.52	7,317.52	36.62	146.79	153.61	-14.46	564.28	1,094.28	918.87	175.42	6.238	
7,550.00	7,363.66	7,366.66	7,366.66	36.81	147.78	153.45	-14.46	564.28	1,102.53	925.94	176.58	6.244	
7,600.00	7,411.80	7,414.80	7,414.80	37.03	148.74	153.20	-14.46	564.28	1,114.61	936.87	177.74	6.271	
7,650.00	7,458.60	7,461.60	7,461.60	37.29	149.68	152.84	-14.46	564.28	1,130.47	951.60	178.87	6.320	
7,700.00	7,503.68	7,506.68	7,506.68	37.57	150.59	152.35	-14.46	564.28	1,150.03	970.06	179.97	6.390	
7,750.00	7,546.72	7,549.72	7,549.72	37.89	151.46	151.70	-14.46	564.28	1,173.15	992.13	181.03	6.481	
7,800.00	7,587.37	7,609.63	7,590.37	38.23	152.66	150.84	-14.46	564.28	1,199.72	1,017.30	182.42	6.577	
7,850.00	7,625.34	7,628.34	7,628.34	38.59	153.04	149.71	-14.46	564.28	1,229.56	1,046.59	182.97	6.720	
7,900.00	7,660.33	7,663.33	7,663.33	38.99	153.74	148.24	-14.46	564.28	1,262.47	1,078.63	183.84	6.867	
7,950.00	7,692.07	7,704.93	7,695.07	39.40	154.58	146.32	-14.46	564.28	1,298.23	1,113.40	184.83	7.024	
8,000.00	7,720.33	7,723.33	7,723.33	39.85	154.95	143.79	-14.46	564.28	1,336.60	1,151.26	185.34	7.212	
8,050.00	7,744.88	7,747.88	7,747.88	40.31	155.44	140.44	-14.46	564.28	1,377.29	1,191.33	185.95	7.407	
8,100.00	7,765.55	7,768.55	7,768.55	40.79	155.86	135.94	-14.46	564.28	1,420.00	1,233.53	186.47	7.615	
8,150.00	7,782.18	7,785.18	7,785.18	41.30	156.19	129.84	-14.46	564.28	1,464.42	1,277.54	186.89	7.836	
8,200.00	7,794.63	7,802.37	7,797.63	41.81	156.54	121.51	-14.46	564.28	1,510.21	1,322.92	187.29	8.063	
8,250.00	7,802.82	7,805.82	7,805.82	42.34	156.61	110.31	-14.46	564.28	1,557.02	1,369.61	187.41	8.308	
8,300.00	7,806.68	7,809.68	7,809.68	42.88	156.68	96.09	-14.46	564.28	1,604.47	1,416.96	187.51	8.557	
8,319.29	7,807.00	7,810.00	7,810.00	43.09	156.69	90.00	-14.46	564.28	1,622.88	1,435.36	187.52	8.654	
8,400.00	7,807.00	7,810.00	7,810.00	43.98	156.69	90.00	-14.46	564.28	1,700.10	1,512.57	187.54	9.065	
8,500.00	7,807.00	7,810.00	7,810.00	45.12	156.69	90.00	-14.46	564.28	1,796.22	1,608.66	187.56	9.577	
8,600.00	7,806.99	7,809.99	7,809.99	46.31	156.69	89.99	-14.46	564.28	1,892.73	1,705.15	187.58	10.090	
8,700.00	7,806.99	7,809.99	7,809.99	47.53	156.69	89.99	-14.46	564.28	1,989.59	1,801.99	187.60	10.605	
8,800.00	7,806.99	7,809.99	7,809.99	48.78	156.69	89.99	-14.46	564.28	2,086.75	1,899.12	187.62	11.122	

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	7,809.99	7,809.99	50.07	156.69	89.99	-14.46	564.28	2,184.16	1,996.51	187.65	11.640		
9,000.00	7,806.98	7,809.98	7,809.98	51.38	156.69	89.99	-14.46	564.28	2,281.80	2,094.13	187.67	12.159		
9,100.00	7,806.98	7,809.98	7,809.98	52.72	156.69	89.99	-14.46	564.28	2,379.63	2,191.94	187.69	12.678		
9,200.00	7,806.98	7,809.98	7,809.98	54.09	156.69	89.99	-14.46	564.28	2,477.63	2,289.92	187.71	13.199		
9,300.00	7,806.98	7,809.98	7,809.98	55.48	156.69	89.99	-14.46	564.28	2,575.79	2,388.05	187.74	13.720		
9,400.00	7,806.97	7,809.97	7,809.97	56.89	156.69	89.99	-14.46	564.28	2,674.09	2,486.32	187.76	14.242		
9,500.00	7,806.97	7,809.97	7,809.97	58.32	156.69	89.99	-14.46	564.28	2,772.50	2,584.72	187.79	14.764		
9,600.00	7,806.97	7,809.97	7,809.97	59.77	156.69	89.99	-14.46	564.28	2,871.03	2,683.22	187.81	15.287		
9,700.00	7,806.97	7,809.97	7,809.97	61.23	156.69	89.99	-14.46	564.28	2,969.66	2,781.82	187.84	15.809		
9,800.00	7,806.96	7,809.96	7,809.96	62.71	156.69	89.99	-14.46	564.28	3,068.37	2,880.50	187.87	16.333		
9,900.00	7,806.96	7,809.96	7,809.96	64.21	156.69	89.99	-14.46	564.28	3,167.17	2,979.27	187.90	16.856		
10,000.00	7,806.96	7,809.96	7,809.96	65.72	156.69	89.99	-14.46	564.28	3,266.03	3,078.11	187.92	17.379		
10,100.00	7,806.96	7,809.96	7,809.96	67.24	156.69	89.99	-14.46	564.28	3,364.97	3,177.01	187.95	17.903		
10,200.00	7,806.95	7,809.95	7,809.95	68.78	156.69	89.99	-14.46	564.28	3,463.97	3,275.98	187.98	18.427		
10,300.00	7,806.95	7,809.95	7,809.95	70.32	156.69	89.99	-14.46	564.28	3,563.02	3,375.00	188.02	18.951		
10,400.00	7,806.95	7,809.95	7,809.95	71.88	156.69	89.99	-14.46	564.28	3,662.12	3,474.07	188.05	19.474		
10,500.00	7,806.95	7,809.95	7,809.95	73.45	156.69	89.99	-14.46	564.28	3,761.27	3,573.19	188.08	19.998		
10,600.00	7,806.95	7,809.95	7,809.95	75.02	156.69	89.99	-14.46	564.28	3,860.47	3,672.35	188.11	20.522		
10,700.00	7,806.94	7,809.94	7,809.94	76.61	156.69	89.99	-14.46	564.28	3,959.70	3,771.55	188.15	21.046		
10,800.00	7,806.94	7,809.94	7,809.94	78.20	156.69	89.99	-14.46	564.28	4,058.98	3,870.79	188.18	21.569		
10,900.00	7,806.94	7,809.94	7,809.94	79.80	156.69	89.99	-14.46	564.28	4,158.28	3,970.06	188.22	22.093		
11,000.00	7,806.94	7,809.94	7,809.94	81.41	156.69	89.99	-14.46	564.28	4,257.62	4,069.37	188.26	22.616		
11,100.00	7,806.93	7,809.93	7,809.93	83.02	156.69	89.99	-14.46	564.28	4,356.99	4,168.70	188.29	23.139		
11,200.00	7,806.93	7,809.93	7,809.93	84.64	156.69	89.99	-14.46	564.28	4,456.39	4,268.06	188.33	23.662		
11,300.00	7,806.93	7,809.93	7,809.93	86.27	156.69	89.99	-14.46	564.28	4,555.82	4,367.45	188.37	24.185		
11,400.00	7,806.93	7,809.93	7,809.93	87.90	156.69	89.99	-14.46	564.28	4,655.27	4,466.86	188.41	24.708		
11,500.00	7,806.92	7,809.92	7,809.92	89.54	156.69	89.99	-14.46	564.28	4,754.74	4,566.29	188.45	25.230		
11,600.00	7,806.92	7,809.92	7,809.92	91.18	156.69	89.99	-14.46	564.28	4,854.23	4,665.74	188.49	25.753		
11,700.00	7,806.92	7,809.92	7,809.92	92.83	156.69	89.99	-14.46	564.28	4,953.75	4,765.21	188.54	26.275		
11,800.00	7,806.92	7,809.92	7,809.92	94.48	156.69	89.99	-14.46	564.28	5,053.28	4,864.70	188.58	26.797		
11,900.00	7,806.91	7,809.91	7,809.91	96.14	156.69	89.99	-14.46	564.28	5,152.84	4,964.21	188.62	27.318		
12,000.00	7,806.91	7,809.91	7,809.91	97.80	156.69	89.99	-14.46	564.28	5,252.40	5,063.74	188.67	27.839		
12,100.00	7,806.91	7,809.91	7,809.91	99.46	156.69	89.98	-14.46	564.28	5,351.99	5,163.28	188.71	28.360		
12,200.00	7,806.91	7,809.91	7,809.91	101.13	156.69	89.98	-14.46	564.28	5,451.59	5,262.83	188.76	28.881		
12,300.00	7,806.90	7,809.90	7,809.90	102.80	156.69	89.98	-14.46	564.28	5,551.20	5,362.40	188.81	29.402		
12,400.00	7,806.90	7,809.90	7,809.90	104.47	156.69	89.98	-14.46	564.28	5,650.83	5,461.98	188.85	29.922		
12,500.00	7,806.90	7,809.90	7,809.90	106.15	156.69	89.98	-14.46	564.28	5,750.47	5,561.57	188.90	30.441		
12,600.00	7,806.90	7,809.90	7,809.90	107.83	156.69	89.98	-14.46	564.28	5,850.13	5,661.18	188.95	30.961		
12,700.00	7,806.89	7,809.89	7,809.89	109.52	156.69	89.98	-14.46	564.28	5,949.79	5,760.79	189.00	31.480		
12,800.00	7,806.89	7,809.89	7,809.89	111.20	156.69	89.98	-14.46	564.28	6,049.47	5,860.42	189.05	31.999		
12,900.00	7,806.89	7,809.89	7,809.89	112.89	156.69	89.98	-14.46	564.28	6,149.15	5,960.05	189.10	32.517		
13,000.00	7,806.89	7,809.89	7,809.89	114.59	156.69	89.98	-14.46	564.28	6,248.85	6,059.69	189.16	33.035		
13,100.00	7,806.88	7,809.88	7,809.88	116.28	156.69	89.98	-14.46	564.28	6,348.56	6,159.35	189.21	33.553		
13,200.00	7,806.88	7,809.88	7,809.88	117.98	156.69	89.98	-14.46	564.28	6,448.27	6,259.01	189.26	34.070		
13,300.00	7,806.88	7,809.88	7,809.88	119.68	156.69	89.98	-14.46	564.28	6,548.00	6,358.68	189.32	34.587		
13,400.00	7,806.88	7,809.88	7,809.88	121.38	156.69	89.98	-14.46	564.28	6,647.73	6,458.36	189.37	35.104		
13,500.00	7,806.88	7,809.88	7,809.88	123.08	156.69	89.98	-14.46	564.28	6,747.47	6,558.04	189.43	35.620		
13,600.00	7,806.87	7,809.87	7,809.87	124.79	156.69	89.98	-14.46	564.28	6,847.22	6,657.73	189.48	36.136		
13,700.00	7,806.87	7,809.87	7,809.87	126.49	156.69	89.98	-14.46	564.28	6,946.97	6,757.43	189.54	36.651		
13,800.00	7,806.87	7,809.87	7,809.87	128.20	156.69	89.98	-14.46	564.28	7,046.73	6,857.13	189.60	37.166		
13,900.00	7,806.87	7,809.87	7,809.87	129.91	156.69	89.98	-14.46	564.28	7,146.50	6,956.84	189.66	37.681		
14,000.00	7,806.86	7,809.86	7,809.86	131.62	156.69	89.98	-14.46	564.28	7,246.28	7,056.56	189.72	38.195		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,809.86	7,809.86	133.34	156.69	89.98	-14.46	564.28	7,346.06	7,156.28	189.78	38.709		
14,200.00	7,806.86	7,809.86	7,809.86	135.05	156.69	89.98	-14.46	564.28	7,445.84	7,256.01	189.84	39.222		
14,300.00	7,806.86	7,809.86	7,809.86	136.77	156.69	89.98	-14.46	564.28	7,545.64	7,355.74	189.90	39.735		
14,400.00	7,806.85	7,809.85	7,809.85	138.49	156.69	89.98	-14.46	564.28	7,645.44	7,455.47	189.96	40.247		
14,500.00	7,806.85	7,809.85	7,809.85	140.21	156.69	89.98	-14.46	564.28	7,745.24	7,555.21	190.03	40.759		
14,600.00	7,806.85	7,809.85	7,809.85	141.93	156.69	89.98	-14.46	564.28	7,845.05	7,654.96	190.09	41.270		
14,700.00	7,806.85	7,809.85	7,809.85	143.65	156.69	89.98	-14.46	564.28	7,944.86	7,754.71	190.15	41.781		
14,800.00	7,806.84	7,809.84	7,809.84	145.37	156.69	89.98	-14.46	564.28	8,044.68	7,854.46	190.22	42.292		
14,900.00	7,806.84	7,809.84	7,809.84	147.10	156.69	89.98	-14.46	564.28	8,144.50	7,954.22	190.28	42.802		
15,000.00	7,806.84	7,809.84	7,809.84	148.83	156.69	89.98	-14.46	564.28	8,244.33	8,053.98	190.35	43.311		
15,100.00	7,806.84	7,809.84	7,809.84	150.55	156.69	89.98	-14.46	564.28	8,344.16	8,153.74	190.42	43.820		
15,200.00	7,806.83	7,809.83	7,809.83	152.28	156.69	89.98	-14.46	564.28	8,443.99	8,253.51	190.49	44.329		
15,300.00	7,806.83	7,809.83	7,809.83	154.01	156.69	89.98	-14.46	564.28	8,543.83	8,353.28	190.55	44.837		
15,400.00	7,806.83	7,809.83	7,809.83	155.74	156.69	89.98	-14.46	564.28	8,643.67	8,453.05	190.62	45.345		
15,500.00	7,806.83	7,809.83	7,809.83	157.47	156.69	89.97	-14.46	564.28	8,743.52	8,552.83	190.69	45.852		
15,600.00	7,806.82	7,809.82	7,809.82	159.20	156.69	89.97	-14.46	564.28	8,843.37	8,652.61	190.76	46.358		
15,700.00	7,806.82	7,809.82	7,809.82	160.93	156.69	89.97	-14.46	564.28	8,943.22	8,752.39	190.83	46.864		
15,800.00	7,806.82	7,809.82	7,809.82	162.67	156.69	89.97	-14.46	564.28	9,043.08	8,852.17	190.90	47.370		
15,900.00	7,806.82	7,809.82	7,809.82	164.40	156.69	89.97	-14.46	564.28	9,142.94	8,951.96	190.98	47.875		
16,000.00	7,806.81	7,809.81	7,809.81	166.14	156.69	89.97	-14.46	564.28	9,242.80	9,051.75	191.05	48.379		
16,100.00	7,806.81	7,809.81	7,809.81	167.87	156.69	89.97	-14.46	564.28	9,342.66	9,151.54	191.12	48.883		
16,200.00	7,806.81	7,809.81	7,809.81	169.61	156.69	89.97	-14.46	564.28	9,442.53	9,251.33	191.20	49.387		
16,300.00	7,806.81	7,809.81	7,809.81	171.35	156.69	89.97	-14.46	564.28	9,542.40	9,351.13	191.27	49.889		
16,400.00	7,806.81	7,809.81	7,809.81	173.09	156.69	89.97	-14.46	564.28	9,642.27	9,450.93	191.35	50.392		
16,500.00	7,806.80	7,809.80	7,809.80	174.83	156.69	89.97	-14.46	564.28	9,742.15	9,550.73	191.42	50.894		
16,600.00	7,806.80	7,809.80	7,809.80	176.57	156.69	89.97	-14.46	564.28	9,842.03	9,650.53	191.50	51.395		
16,700.00	7,806.80	7,809.80	7,809.80	178.31	156.69	89.97	-14.46	564.28	9,941.91	9,750.33	191.58	51.896		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	154.30	-433.38	208.58	481.26				
100.00	100.00	83.00	83.00	0.13	0.97	154.30	-433.38	208.58	480.96	479.86	1.11	434.534	
200.00	200.00	183.00	183.00	0.49	3.08	154.30	-433.38	208.58	480.96	477.39	3.57	134.731	
300.00	300.00	283.00	283.00	0.85	5.19	154.30	-433.38	208.58	480.96	474.92	6.04	79.578	
400.00	400.00	383.00	383.00	1.21	7.24	154.30	-433.38	208.58	480.96	472.51	8.45	56.913	
500.00	500.00	483.00	483.00	1.57	9.27	154.30	-433.38	208.58	480.96	470.12	10.84	44.366	
600.00	600.00	583.00	583.00	1.93	11.30	154.30	-433.38	208.58	480.96	467.74	13.22	36.373	
700.00	700.00	683.00	683.00	2.29	13.32	154.30	-433.38	208.58	480.96	465.36	15.60	30.828	
800.00	800.00	783.00	783.00	2.64	15.33	154.30	-433.38	208.58	480.96	462.99	17.98	26.754	
900.00	900.00	883.00	883.00	3.00	17.35	154.30	-433.38	208.58	480.96	460.61	20.35	23.632	
1,000.00	1,000.00	983.00	983.00	3.36	19.36	154.30	-433.38	208.58	480.96	458.24	22.73	21.164	
1,100.00	1,100.00	1,083.00	1,083.00	3.72	21.38	154.30	-433.38	208.58	480.96	455.87	25.10	19.164	
1,200.00	1,199.98	1,182.98	1,182.98	4.06	23.39	21.20	-433.38	208.58	479.34	451.88	27.46	17.459	
1,300.00	1,299.84	1,282.84	1,282.84	4.40	25.40	21.46	-433.38	208.58	474.46	444.66	29.80	15.922	
1,400.00	1,399.45	1,382.45	1,382.45	4.74	27.41	21.92	-433.38	208.58	466.36	434.21	32.14	14.509	
1,500.00	1,498.70	1,481.70	1,481.70	5.09	29.40	22.58	-433.38	208.58	455.07	420.58	34.48	13.196	
1,600.00	1,597.47	1,580.47	1,580.47	5.46	31.39	23.47	-433.38	208.58	440.64	403.82	36.82	11.967	
1,700.00	1,695.62	1,678.62	1,678.62	5.85	33.37	24.64	-433.38	208.58	423.17	384.01	39.15	10.808	
1,800.00	1,793.06	1,776.06	1,776.06	6.27	35.33	26.15	-433.38	208.58	402.75	361.27	41.48	9.710	
1,867.07	1,857.94	1,840.94	1,840.94	6.57	36.63	27.40	-433.38	208.58	387.48	344.45	43.03	9.004	
1,900.00	1,889.69	1,872.69	1,872.69	6.72	37.27	28.00	-433.38	208.58	379.71	335.91	43.80	8.670	
2,000.00	1,986.13	1,969.13	1,969.13	7.19	39.21	29.98	-433.38	208.58	356.37	310.25	46.12	7.727	
2,100.00	2,082.57	2,065.57	2,065.57	7.68	41.15	32.23	-433.38	208.58	333.50	285.03	48.47	6.881	
2,200.00	2,179.00	2,162.00	2,162.00	8.18	43.09	34.80	-433.38	208.58	311.20	260.37	50.83	6.122	
2,300.00	2,275.44	2,258.44	2,258.44	8.69	45.03	37.75	-433.38	208.58	289.59	236.38	53.22	5.442	
2,400.00	2,371.88	2,354.88	2,354.88	9.21	46.97	41.15	-433.38	208.58	268.86	213.22	55.63	4.833	
2,500.00	2,468.31	2,451.31	2,451.31	9.74	48.91	45.08	-433.38	208.58	249.21	191.12	58.09	4.290	
2,600.00	2,564.75	2,547.75	2,547.75	10.28	50.85	49.64	-433.38	208.58	230.92	170.34	60.58	3.812	
2,700.00	2,661.19	2,644.19	2,644.19	10.82	52.79	54.91	-433.38	208.58	214.35	151.23	63.12	3.396	
2,800.00	2,757.62	2,740.62	2,740.62	11.37	54.73	60.95	-433.38	208.58	199.92	134.22	65.70	3.043	
2,900.00	2,854.06	2,837.06	2,837.06	11.92	56.67	67.80	-433.38	208.58	188.12	119.80	68.32	2.753	
3,000.00	2,950.50	2,933.50	2,933.50	12.47	58.61	75.38	-433.38	208.58	179.47	108.52	70.95	2.530	
3,100.00	3,046.93	3,029.93	3,029.93	13.03	60.55	83.52	-433.38	208.58	174.44	100.89	73.55	2.372	
3,177.11	3,121.29	3,104.29	3,104.29	13.46	62.05	90.00	-433.38	208.58	173.24	97.74	75.51	2.294 CC	
3,200.00	3,143.37	3,126.37	3,126.37	13.59	62.49	91.93	-433.38	208.58	173.35	97.27	76.08	2.279 ES	
3,300.00	3,239.81	3,222.81	3,222.81	14.15	64.43	100.26	-433.38	208.58	176.27	97.76	78.51	2.245 SF	
3,400.00	3,336.24	3,319.24	3,319.24	14.72	66.37	108.17	-433.38	208.58	183.01	102.17	80.84	2.264	
3,500.00	3,432.68	3,415.68	3,415.68	15.28	68.31	115.43	-433.38	208.58	193.16	110.07	83.09	2.325	
3,600.00	3,529.12	3,512.12	3,512.12	15.85	70.25	121.92	-433.38	208.58	206.23	120.95	85.28	2.418	
3,700.00	3,625.55	3,608.55	3,608.55	16.42	72.19	127.60	-433.38	208.58	221.70	134.26	87.44	2.535	
3,800.00	3,721.99	3,704.99	3,704.99	16.99	74.13	132.53	-433.38	208.58	239.11	149.51	89.60	2.669	
3,900.00	3,818.43	3,801.43	3,801.43	17.56	76.07	136.79	-433.38	208.58	258.06	166.29	91.76	2.812	
4,000.00	3,914.86	3,902.14	3,902.14	18.14	78.09	140.47	-433.38	208.58	278.23	184.21	94.02	2.959	
4,100.00	4,011.30	4,005.70	4,005.70	18.71	80.18	143.66	-433.38	208.58	299.39	203.04	96.35	3.107	
4,200.00	4,107.74	4,109.26	4,090.74	19.29	82.26	146.42	-433.38	208.58	321.33	222.63	98.70	3.256	
4,300.00	4,204.17	4,187.17	4,187.17	19.86	83.82	148.84	-433.38	208.58	343.91	243.37	100.54	3.421	
4,400.00	4,300.61	4,283.61	4,283.61	20.44	85.76	150.96	-433.38	208.58	367.00	264.24	102.77	3.571	
4,500.00	4,397.05	4,380.05	4,380.05	21.02	87.70	152.83	-433.38	208.58	390.53	285.52	105.01	3.719	
4,600.00	4,493.48	4,476.48	4,476.48	21.59	89.64	154.49	-433.38	208.58	414.41	307.15	107.26	3.864	
4,700.00	4,589.92	4,572.92	4,572.92	22.17	91.58	155.97	-433.38	208.58	438.58	329.06	109.52	4.005	
4,800.00	4,686.36	4,669.36	4,669.36	22.75	93.52	157.30	-433.38	208.58	463.00	351.22	111.78	4.142	
4,900.00	4,782.79	4,765.79	4,765.79	23.33	95.46	158.49	-433.38	208.58	487.64	373.58	114.06	4.275	

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	4,879.23	4,862.23	4,862.23	23.91	97.40	159.57	-433.38	208.58	512.46	396.12	116.34	4.405		
5,100.00	4,975.67	4,958.67	4,958.67	24.49	99.34	160.55	-433.38	208.58	537.43	418.81	118.62	4.531		
5,200.00	5,072.10	5,055.10	5,055.10	25.07	101.28	161.45	-433.38	208.58	562.54	441.63	120.91	4.653		
5,300.00	5,168.54	5,151.54	5,151.54	25.66	103.22	162.26	-433.38	208.58	587.77	464.57	123.20	4.771		
5,400.00	5,264.98	5,247.98	5,247.98	26.24	105.16	163.01	-433.38	208.58	613.10	487.60	125.50	4.885		
5,500.00	5,361.41	5,344.41	5,344.41	26.82	107.10	163.71	-433.38	208.58	638.52	510.72	127.80	4.996		
5,600.00	5,457.85	5,440.85	5,440.85	27.40	109.04	164.34	-433.38	208.58	664.02	533.93	130.10	5.104		
5,700.00	5,554.29	5,537.29	5,537.29	27.99	110.98	164.94	-433.38	208.58	689.60	557.20	132.40	5.208		
5,800.00	5,650.72	5,633.72	5,633.72	28.57	112.92	165.49	-433.38	208.58	715.24	580.53	134.71	5.310		
5,900.00	5,747.16	5,730.16	5,730.16	29.15	114.86	166.00	-433.38	208.58	740.93	603.92	137.01	5.408		
6,000.00	5,843.60	5,826.60	5,826.60	29.74	116.79	166.48	-433.38	208.58	766.68	627.36	139.32	5.503		
6,100.00	5,940.03	5,923.03	5,923.03	30.32	118.73	166.92	-433.38	208.58	792.48	650.84	141.64	5.595		
6,200.00	6,036.47	6,019.47	6,019.47	30.90	120.67	167.34	-433.38	208.58	818.32	674.37	143.95	5.685		
6,300.00	6,132.91	6,115.91	6,115.91	31.49	122.61	167.73	-433.38	208.58	844.19	697.93	146.26	5.772		
6,400.00	6,229.34	6,212.34	6,212.34	32.07	124.55	168.10	-433.38	208.58	870.10	721.52	148.58	5.856		
6,500.00	6,325.78	6,308.78	6,308.78	32.66	126.49	168.45	-433.38	208.58	896.05	745.15	150.90	5.938		
6,552.14	6,376.06	6,359.06	6,359.06	32.96	127.50	168.62	-433.38	208.58	909.58	757.48	152.10	5.980		
6,600.00	6,422.32	6,405.32	6,405.32	33.24	128.43	168.82	-433.38	208.58	921.64	768.42	153.21	6.015		
6,700.00	6,519.60	6,502.60	6,502.60	33.78	130.39	169.18	-433.38	208.58	944.38	788.84	155.54	6.072		
6,800.00	6,617.63	6,600.63	6,600.63	34.27	132.36	169.48	-433.38	208.58	963.79	805.91	157.88	6.105		
6,900.00	6,716.28	6,700.72	6,699.28	34.72	134.37	169.71	-433.38	208.58	979.84	819.58	160.26	6.114		
7,000.00	6,815.45	6,801.55	6,798.45	35.13	136.40	169.89	-433.38	208.58	992.49	829.85	162.64	6.102		
7,100.00	6,915.00	6,902.00	6,898.00	35.49	138.42	170.01	-433.38	208.58	1,001.73	836.72	165.00	6.071		
7,200.00	7,014.82	7,002.18	6,997.82	35.81	140.44	170.09	-433.38	208.58	1,007.54	840.19	167.36	6.020		
7,300.00	7,114.79	7,102.21	7,097.79	36.09	142.45	170.12	-433.38	208.58	1,009.92	840.23	169.70	5.951		
7,319.21	7,134.00	7,117.00	7,117.00	36.14	142.74	-56.69	-433.38	208.58	1,009.99	839.93	170.05	5.939		
7,400.00	7,214.79	7,202.21	7,197.79	36.33	144.46	-56.69	-433.38	208.58	1,009.99	837.98	172.01	5.872		
7,419.21	7,234.00	7,217.00	7,217.00	36.37	144.76	-56.69	-433.38	208.58	1,009.99	837.62	172.36	5.860		
7,450.00	7,264.77	7,247.77	7,247.77	36.46	145.37	123.65	-433.38	208.58	1,010.44	837.36	173.08	5.838		
7,500.00	7,314.52	7,302.48	7,297.52	36.62	146.47	123.66	-433.38	208.58	1,013.15	838.81	174.34	5.811		
7,550.00	7,363.66	7,346.66	7,346.66	36.81	147.36	123.65	-433.38	208.58	1,018.30	842.90	175.39	5.806		
7,600.00	7,411.80	7,405.20	7,394.80	37.03	148.54	123.62	-433.38	208.58	1,025.93	849.20	176.73	5.805		
7,650.00	7,458.60	7,441.60	7,441.60	37.29	149.27	123.53	-433.38	208.58	1,036.10	858.47	177.63	5.833		
7,700.00	7,503.68	7,486.68	7,486.68	37.57	150.18	123.35	-433.38	208.58	1,048.86	870.16	178.70	5.869		
7,750.00	7,546.72	7,529.72	7,529.72	37.89	151.04	123.04	-433.38	208.58	1,064.25	884.53	179.72	5.922		
7,800.00	7,587.37	7,570.37	7,570.37	38.23	151.86	122.55	-433.38	208.58	1,082.33	901.63	180.69	5.990		
7,850.00	7,625.34	7,608.34	7,608.34	38.59	152.63	121.82	-433.38	208.58	1,103.09	921.49	181.61	6.074		
7,900.00	7,660.33	7,643.33	7,643.33	38.99	153.33	120.79	-433.38	208.58	1,126.53	944.08	182.45	6.174		
7,950.00	7,692.07	7,675.07	7,675.07	39.40	153.97	119.40	-433.38	208.58	1,152.59	969.38	183.22	6.291		
8,000.00	7,720.33	7,703.33	7,703.33	39.85	154.54	117.56	-433.38	208.58	1,181.18	997.28	183.90	6.423		
8,050.00	7,744.88	7,727.88	7,727.88	40.31	155.03	115.19	-433.38	208.58	1,212.16	1,027.66	184.50	6.570		
8,100.00	7,765.55	7,748.55	7,748.55	40.79	155.45	112.20	-433.38	208.58	1,245.34	1,060.34	185.00	6.732		
8,150.00	7,782.18	7,765.18	7,765.18	41.30	155.78	108.49	-433.38	208.58	1,280.51	1,095.11	185.40	6.907		
8,200.00	7,794.63	7,777.63	7,777.63	41.81	156.03	104.00	-433.38	208.58	1,317.41	1,131.70	185.70	7.094		
8,250.00	7,802.82	7,785.82	7,785.82	42.34	156.19	98.68	-433.38	208.58	1,355.74	1,169.84	185.90	7.293		
8,300.00	7,806.68	7,789.68	7,789.68	42.88	156.27	92.55	-433.38	208.58	1,395.17	1,209.18	185.99	7.501		
8,319.29	7,807.00	7,790.00	7,790.00	43.09	156.28	90.00	-433.38	208.58	1,410.62	1,224.62	186.00	7.584		
8,400.00	7,807.00	7,790.00	7,790.00	43.98	156.28	90.00	-433.38	208.58	1,476.21	1,290.21	186.00	7.937		
8,500.00	7,807.00	7,790.00	7,790.00	45.12	156.28	90.00	-433.38	208.58	1,559.45	1,373.44	186.00	8.384		
8,600.00	7,806.99	7,789.99	7,789.99	46.31	156.28	90.00	-433.38	208.58	1,644.55	1,458.54	186.01	8.841		
8,700.00	7,806.99	7,789.99	7,789.99	47.53	156.28	90.00	-433.38	208.58	1,731.25	1,545.23	186.02	9.307		
8,800.00	7,806.99	7,789.99	7,789.99	48.78	156.28	90.00	-433.38	208.58	1,819.32	1,633.28	186.03	9.780		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
8,900.00	7,806.99	7,789.99	7,789.99	50.07	156.28	90.00	-433.38	208.58	1,908.56	1,722.51	186.05	10.258		
9,000.00	7,806.98	7,789.98	7,789.98	51.38	156.28	90.00	-433.38	208.58	1,998.82	1,812.75	186.07	10.743		
9,100.00	7,806.98	7,789.98	7,789.98	52.72	156.28	90.00	-433.38	208.58	2,089.97	1,903.88	186.09	11.231		
9,200.00	7,806.98	7,789.98	7,789.98	54.09	156.28	90.00	-433.38	208.58	2,181.89	1,995.79	186.11	11.724		
9,300.00	7,806.98	7,789.98	7,789.98	55.48	156.28	90.00	-433.38	208.58	2,274.50	2,088.37	186.13	12.220		
9,400.00	7,806.97	7,789.97	7,789.97	56.89	156.28	90.00	-433.38	208.58	2,367.70	2,181.55	186.15	12.719		
9,500.00	7,806.97	7,789.97	7,789.97	58.32	156.28	90.00	-433.38	208.58	2,461.44	2,275.27	186.18	13.221		
9,600.00	7,806.97	7,789.97	7,789.97	59.77	156.28	90.00	-433.38	208.58	2,555.66	2,369.45	186.20	13.725		
9,700.00	7,806.97	7,789.97	7,789.97	61.23	156.28	90.00	-433.38	208.58	2,650.29	2,464.06	186.23	14.231		
9,800.00	7,806.96	7,789.96	7,789.96	62.71	156.28	90.00	-433.38	208.58	2,745.31	2,559.05	186.26	14.739		
9,900.00	7,806.96	7,789.96	7,789.96	64.21	156.28	90.00	-433.38	208.58	2,840.67	2,654.39	186.29	15.249		
10,000.00	7,806.96	7,789.96	7,789.96	65.72	156.28	90.00	-433.38	208.58	2,936.34	2,750.03	186.32	15.760		
10,100.00	7,806.96	7,789.96	7,789.96	67.24	156.28	90.00	-433.38	208.58	3,032.29	2,845.94	186.35	16.272		
10,200.00	7,806.95	7,789.95	7,789.95	68.78	156.28	90.00	-433.38	208.58	3,128.49	2,942.11	186.38	16.785		
10,300.00	7,806.95	7,789.95	7,789.95	70.32	156.28	89.99	-433.38	208.58	3,224.93	3,038.51	186.41	17.300		
10,400.00	7,806.95	7,789.95	7,789.95	71.88	156.28	89.99	-433.38	208.58	3,321.57	3,135.12	186.45	17.815		
10,500.00	7,806.95	7,789.95	7,789.95	73.45	156.28	89.99	-433.38	208.58	3,418.41	3,231.93	186.48	18.331		
10,600.00	7,806.95	7,789.95	7,789.95	75.02	156.28	89.99	-433.38	208.58	3,515.42	3,328.90	186.52	18.848		
10,700.00	7,806.94	7,789.94	7,789.94	76.61	156.28	89.99	-433.38	208.58	3,612.60	3,426.05	186.56	19.365		
10,800.00	7,806.94	7,789.94	7,789.94	78.20	156.28	89.99	-433.38	208.58	3,709.93	3,523.34	186.59	19.882		
10,900.00	7,806.94	7,789.94	7,789.94	79.80	156.28	89.99	-433.38	208.58	3,807.39	3,620.76	186.63	20.401		
11,000.00	7,806.94	7,789.94	7,789.94	81.41	156.28	89.99	-433.38	208.58	3,904.99	3,718.32	186.67	20.919		
11,100.00	7,806.93	7,789.93	7,789.93	83.02	156.28	89.99	-433.38	208.58	4,002.70	3,815.99	186.71	21.438		
11,200.00	7,806.93	7,789.93	7,789.93	84.64	156.28	89.99	-433.38	208.58	4,100.52	3,913.77	186.75	21.957		
11,300.00	7,806.93	7,789.93	7,789.93	86.27	156.28	89.99	-433.38	208.58	4,198.45	4,011.66	186.79	22.476		
11,400.00	7,806.93	7,789.93	7,789.93	87.90	156.28	89.99	-433.38	208.58	4,296.47	4,109.64	186.84	22.996		
11,500.00	7,806.92	7,789.92	7,789.92	89.54	156.28	89.99	-433.38	208.58	4,394.58	4,207.70	186.88	23.516		
11,600.00	7,806.92	7,789.92	7,789.92	91.18	156.28	89.99	-433.38	208.58	4,492.78	4,305.85	186.92	24.035		
11,700.00	7,806.92	7,789.92	7,789.92	92.83	156.28	89.99	-433.38	208.58	4,591.05	4,404.08	186.97	24.555		
11,800.00	7,806.92	7,789.92	7,789.92	94.48	156.28	89.99	-433.38	208.58	4,689.39	4,502.38	187.01	25.075		
11,900.00	7,806.91	7,789.91	7,789.91	96.14	156.28	89.99	-433.38	208.58	4,787.81	4,600.75	187.06	25.595		
12,000.00	7,806.91	7,789.91	7,789.91	97.80	156.28	89.99	-433.38	208.58	4,886.28	4,699.18	187.11	26.115		
12,100.00	7,806.91	7,789.91	7,789.91	99.46	156.28	89.99	-433.38	208.58	4,984.82	4,797.67	187.15	26.635		
12,200.00	7,806.91	7,789.91	7,789.91	101.13	156.28	89.99	-433.38	208.58	5,083.42	4,896.21	187.20	27.154		
12,300.00	7,806.90	7,789.90	7,789.90	102.80	156.28	89.99	-433.38	208.58	5,182.07	4,994.81	187.25	27.674		
12,400.00	7,806.90	7,789.90	7,789.90	104.47	156.28	89.99	-433.38	208.58	5,280.77	5,093.46	187.30	28.194		
12,500.00	7,806.90	7,789.90	7,789.90	106.15	156.28	89.99	-433.38	208.58	5,379.51	5,192.16	187.35	28.713		
12,600.00	7,806.90	7,789.90	7,789.90	107.83	156.28	89.99	-433.38	208.58	5,478.31	5,290.90	187.41	29.232		
12,700.00	7,806.89	7,789.89	7,789.89	109.52	156.28	89.99	-433.38	208.58	5,577.14	5,389.69	187.46	29.751		
12,800.00	7,806.89	7,789.89	7,789.89	111.20	156.28	89.99	-433.38	208.58	5,676.02	5,488.51	187.51	30.270		
12,900.00	7,806.89	7,789.89	7,789.89	112.89	156.28	89.99	-433.38	208.58	5,774.94	5,587.37	187.57	30.789		
13,000.00	7,806.89	7,789.89	7,789.89	114.59	156.28	89.99	-433.38	208.58	5,873.89	5,686.27	187.62	31.307		
13,100.00	7,806.88	7,789.88	7,789.88	116.28	156.28	89.99	-433.38	208.58	5,972.88	5,785.20	187.68	31.825		
13,200.00	7,806.88	7,789.88	7,789.88	117.98	156.28	89.99	-433.38	208.58	6,071.90	5,884.17	187.73	32.343		
13,300.00	7,806.88	7,789.88	7,789.88	119.68	156.28	89.99	-433.38	208.58	6,170.95	5,983.16	187.79	32.861		
13,400.00	7,806.88	7,789.88	7,789.88	121.38	156.28	89.99	-433.38	208.58	6,270.03	6,082.19	187.85	33.378		
13,500.00	7,806.88	7,789.88	7,789.88	123.08	156.28	89.99	-433.38	208.58	6,369.14	6,181.24	187.91	33.895		
13,600.00	7,806.87	7,789.87	7,789.87	124.79	156.28	89.99	-433.38	208.58	6,468.28	6,280.32	187.97	34.412		
13,700.00	7,806.87	7,789.87	7,789.87	126.49	156.28	89.99	-433.38	208.58	6,567.45	6,379.42	188.03	34.928		
13,800.00	7,806.87	7,789.87	7,789.87	128.20	156.28	89.99	-433.38	208.58	6,666.64	6,478.55	188.09	35.445		
13,900.00	7,806.87	7,789.87	7,789.87	129.91	156.28	89.99	-433.38	208.58	6,765.85	6,577.70	188.15	35.960		
14,000.00	7,806.86	7,789.86	7,789.86	131.62	156.28	89.99	-433.38	208.58	6,865.09	6,676.88	188.21	36.476		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,100.00	7,806.86	7,789.86	7,789.86	133.34	156.28	89.99	-433.38	208.58	6,964.34	6,776.07	188.27	36.991	
14,200.00	7,806.86	7,789.86	7,789.86	135.05	156.28	89.99	-433.38	208.58	7,063.62	6,875.29	188.34	37.505	
14,300.00	7,806.86	7,789.86	7,789.86	136.77	156.28	89.99	-433.38	208.58	7,162.92	6,974.52	188.40	38.020	
14,400.00	7,806.85	7,789.85	7,789.85	138.49	156.28	89.99	-433.38	208.58	7,262.24	7,073.78	188.47	38.534	
14,500.00	7,806.85	7,789.85	7,789.85	140.21	156.28	89.99	-433.38	208.58	7,361.58	7,173.05	188.53	39.047	
14,600.00	7,806.85	7,789.85	7,789.85	141.93	156.28	89.99	-433.38	208.58	7,460.93	7,272.33	188.60	39.560	
14,700.00	7,806.85	7,789.85	7,789.85	143.65	156.28	89.99	-433.38	208.58	7,560.30	7,371.64	188.66	40.073	
14,800.00	7,806.84	7,789.84	7,789.84	145.37	156.28	89.99	-433.38	208.58	7,659.69	7,470.96	188.73	40.585	
14,900.00	7,806.84	7,789.84	7,789.84	147.10	156.28	89.99	-433.38	208.58	7,759.10	7,570.29	188.80	41.097	
15,000.00	7,806.84	7,789.84	7,789.84	148.83	156.28	89.99	-433.38	208.58	7,858.51	7,669.64	188.87	41.608	
15,100.00	7,806.84	7,789.84	7,789.84	150.55	156.28	89.99	-433.38	208.58	7,957.95	7,769.01	188.94	42.119	
15,200.00	7,806.83	7,789.83	7,789.83	152.28	156.28	89.99	-433.38	208.58	8,057.39	7,868.39	189.01	42.630	
15,300.00	7,806.83	7,789.83	7,789.83	154.01	156.28	89.99	-433.38	208.58	8,156.86	7,967.78	189.08	43.140	
15,400.00	7,806.83	7,789.83	7,789.83	155.74	156.28	89.99	-433.38	208.58	8,256.33	8,067.18	189.15	43.649	
15,500.00	7,806.83	7,789.83	7,789.83	157.47	156.28	89.99	-433.38	208.58	8,355.82	8,166.59	189.22	44.158	
15,600.00	7,806.82	7,789.82	7,789.82	159.20	156.28	89.99	-433.38	208.58	8,455.31	8,266.02	189.30	44.667	
15,700.00	7,806.82	7,789.82	7,789.82	160.93	156.28	89.99	-433.38	208.58	8,554.82	8,365.45	189.37	45.175	
15,800.00	7,806.82	7,789.82	7,789.82	162.67	156.28	89.99	-433.38	208.58	8,654.35	8,464.90	189.44	45.683	
15,900.00	7,806.82	7,789.82	7,789.82	164.40	156.28	89.99	-433.38	208.58	8,753.88	8,564.36	189.52	46.190	
16,000.00	7,806.81	7,789.81	7,789.81	166.14	156.28	89.99	-433.38	208.58	8,853.42	8,663.83	189.59	46.697	
16,100.00	7,806.81	7,789.81	7,789.81	167.87	156.28	89.99	-433.38	208.58	8,952.97	8,763.30	189.67	47.203	
16,200.00	7,806.81	7,789.81	7,789.81	169.61	156.28	89.99	-433.38	208.58	9,052.54	8,862.79	189.75	47.708	
16,300.00	7,806.81	7,789.81	7,789.81	171.35	156.28	89.99	-433.38	208.58	9,152.11	8,962.29	189.82	48.213	
16,400.00	7,806.81	7,789.81	7,789.81	173.09	156.28	89.98	-433.38	208.58	9,251.69	9,061.79	189.90	48.718	
16,500.00	7,806.80	7,789.80	7,789.80	174.83	156.28	89.98	-433.38	208.58	9,351.28	9,161.30	189.98	49.222	
16,600.00	7,806.80	7,789.80	7,789.80	176.57	156.27	89.98	-433.38	208.58	9,450.88	9,260.82	190.06	49.726	
16,700.00	7,806.80	7,789.80	7,789.80	178.31	156.27	89.98	-433.38	208.58	9,550.49	9,360.35	190.14	50.229	
16,800.00	7,806.80	7,789.80	7,789.80	180.05	156.27	89.98	-433.38	208.58	9,650.11	9,459.88	190.22	50.731	
16,900.00	7,806.79	7,789.79	7,789.79	181.79	156.27	89.98	-433.38	208.58	9,749.73	9,559.43	190.30	51.233	
17,000.00	7,806.79	7,789.79	7,789.79	183.53	156.27	89.98	-433.38	208.58	9,849.36	9,658.98	190.38	51.735	
17,100.00	7,806.79	7,789.79	7,789.79	185.27	156.27	89.98	-433.38	208.58	9,949.00	9,758.53	190.46	52.235	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	154.83	-3,281.95	1,541.97	3,626.14					
100.00	100.00	64.00	64.00	0.13	0.11	154.83	-3,281.95	1,541.97	3,626.14	3,625.89	0.25	N/A		
200.00	200.00	164.00	164.00	0.49	0.29	154.83	-3,281.95	1,541.97	3,626.14	3,625.36	0.78	4,625.734		
300.00	300.00	264.00	264.00	0.85	0.47	154.83	-3,281.95	1,541.97	3,626.14	3,624.82	1.32	2,747.449		
400.00	400.00	364.00	364.00	1.21	0.65	154.83	-3,281.95	1,541.97	3,626.14	3,624.28	1.86	1,954.017		
500.00	500.00	464.00	464.00	1.57	0.82	154.83	-3,281.95	1,541.97	3,626.14	3,623.75	2.39	1,516.166		
600.00	600.00	564.00	564.00	1.93	1.00	154.83	-3,281.95	1,541.97	3,626.14	3,623.21	2.93	1,238.619		
700.00	700.00	664.00	664.00	2.29	1.18	154.83	-3,281.95	1,541.97	3,626.14	3,622.68	3.46	1,046.964		
800.00	800.00	764.00	764.00	2.64	1.36	154.83	-3,281.95	1,541.97	3,626.14	3,622.14	4.00	906.672		
900.00	900.00	864.00	864.00	3.00	1.53	154.83	-3,281.95	1,541.97	3,626.14	3,621.60	4.54	799.535		
1,000.00	1,000.00	964.00	964.00	3.36	1.71	154.83	-3,281.95	1,541.97	3,626.14	3,621.07	5.07	715.042		
1,100.00	1,100.00	1,064.00	1,064.00	3.72	1.89	154.83	-3,281.95	1,541.97	3,626.14	3,620.53	5.61	646.700		
1,200.00	1,199.98	1,163.98	1,163.98	4.06	2.07	21.67	-3,281.95	1,541.97	3,624.52	3,618.39	6.13	591.421		
1,300.00	1,299.84	1,263.84	1,263.84	4.40	2.24	21.74	-3,281.95	1,541.97	3,619.65	3,613.01	6.64	545.146		
1,400.00	1,399.45	1,363.45	1,363.45	4.74	2.42	21.85	-3,281.95	1,541.97	3,611.56	3,604.40	7.16	504.719		
1,500.00	1,498.70	1,462.70	1,462.70	5.09	2.60	22.01	-3,281.95	1,541.97	3,600.24	3,592.57	7.68	469.071		
1,600.00	1,597.47	1,561.47	1,561.47	5.46	2.77	22.21	-3,281.95	1,541.97	3,585.72	3,577.52	8.20	437.352		
1,700.00	1,695.62	1,618.01	1,617.98	5.85	3.23	22.45	-3,283.56	1,540.14	3,568.96	3,559.95	9.01	396.288		
1,800.00	1,793.06	1,689.77	1,689.63	6.27	3.59	22.76	-3,286.09	1,537.24	3,549.62	3,539.90	9.72	365.079		
1,867.07	1,857.94	1,737.36	1,737.09	6.57	3.83	23.01	-3,288.43	1,534.57	3,535.31	3,525.09	10.21	346.247		
1,900.00	1,889.69	1,760.60	1,760.24	6.72	3.95	23.08	-3,289.76	1,533.05	3,528.06	3,517.61	10.45	337.585		
2,000.00	1,986.13	1,830.87	1,830.13	7.19	4.32	23.32	-3,294.53	1,527.61	3,506.57	3,495.39	11.18	313.566		
2,100.00	2,082.57	1,900.65	1,899.35	7.68	4.70	23.58	-3,300.38	1,520.92	3,485.91	3,473.99	11.92	292.352		
2,200.00	2,179.00	1,969.86	1,967.76	8.18	5.07	23.87	-3,307.28	1,513.04	3,466.10	3,453.43	12.67	273.547		
2,300.00	2,275.44	2,038.44	2,035.27	8.69	5.44	24.18	-3,315.19	1,504.01	3,447.18	3,433.76	13.42	256.814		
2,400.00	2,371.88	2,106.30	2,101.79	9.21	5.82	24.52	-3,324.06	1,493.87	3,429.20	3,415.03	14.18	241.872		
2,500.00	2,468.31	2,173.39	2,167.21	9.74	6.19	24.88	-3,333.85	1,482.69	3,412.21	3,397.27	14.93	228.481		
2,600.00	2,564.75	2,239.65	2,231.46	10.28	6.55	25.27	-3,344.51	1,470.52	3,396.24	3,380.55	15.69	216.441		
2,700.00	2,661.19	2,305.03	2,294.48	10.82	6.92	25.67	-3,355.98	1,457.42	3,381.35	3,364.90	16.45	205.585		
2,800.00	2,757.62	2,369.47	2,356.18	11.37	7.28	26.09	-3,368.21	1,443.45	3,367.60	3,350.39	17.20	195.768		
2,900.00	2,854.06	2,432.93	2,416.53	11.92	7.63	26.53	-3,381.14	1,428.68	3,355.02	3,337.07	17.95	186.871		
3,000.00	2,950.50	2,495.37	2,475.47	12.47	7.98	26.98	-3,394.73	1,413.17	3,343.69	3,324.99	18.70	178.790		
3,100.00	3,046.93	2,556.77	2,532.96	13.03	8.33	27.44	-3,408.90	1,396.97	3,333.65	3,314.21	19.45	171.438		
3,200.00	3,143.37	2,617.08	2,588.98	13.59	8.67	27.92	-3,423.62	1,380.17	3,324.97	3,304.78	20.18	164.740		
3,300.00	3,239.81	2,676.29	2,643.51	14.15	9.00	28.40	-3,438.82	1,362.81	3,317.68	3,296.76	20.91	158.629		
3,400.00	3,336.24	2,734.37	2,696.53	14.72	9.33	28.90	-3,454.44	1,344.96	3,311.85	3,290.21	21.64	153.052		
3,500.00	3,432.68	2,791.32	2,748.03	15.28	9.65	29.40	-3,470.45	1,326.68	3,307.52	3,285.17	22.35	147.957		
3,600.00	3,529.12	2,847.12	2,798.02	15.85	9.97	29.90	-3,486.79	1,308.02	3,304.76	3,281.70	23.06	143.304		
3,611.36	3,540.07	2,853.39	2,803.60	15.91	10.00	29.96	-3,488.66	1,305.88	3,304.55	3,281.41	23.14	142.801		
3,700.00	3,625.55	3,024.96	2,953.95	16.42	10.97	31.61	-3,543.07	1,243.73	3,307.17	3,282.68	24.49	135.061		
3,734.32	3,658.65	3,188.01	2,813.46	16.62	12.56	29.98	-3,488.56	1,305.99	3,302.15	3,276.24	25.91	127.436		
3,800.00	3,721.99	3,134.30	2,859.75	16.99	12.04	30.52	-3,506.52	1,285.48	3,303.45	3,277.73	25.72	128.453		
3,900.00	3,818.43	3,052.52	2,930.21	17.56	11.24	31.33	-3,533.86	1,254.25	3,306.26	3,280.82	25.43	129.998		
4,000.00	3,914.86	3,079.18	3,000.67	18.14	11.50	32.15	-3,561.20	1,223.02	3,310.06	3,283.96	26.10	126.834		
4,100.00	4,011.30	3,160.96	3,071.14	18.71	12.30	32.96	-3,588.54	1,191.80	3,314.86	3,287.63	27.23	121.718		
4,200.00	4,107.74	3,242.74	3,141.60	19.29	13.09	33.77	-3,615.89	1,160.57	3,320.65	3,292.29	28.36	117.075		
4,300.00	4,204.17	3,324.52	3,212.07	19.86	13.89	34.58	-3,643.23	1,129.34	3,327.43	3,297.94	29.49	112.848		
4,400.00	4,300.61	3,406.30	3,282.53	20.44	14.70	35.39	-3,670.57	1,098.11	3,335.19	3,304.59	30.60	108.992		
4,500.00	4,397.05	3,488.08	3,352.99	21.02	15.50	36.19	-3,697.91	1,066.88	3,343.92	3,312.21	31.71	105.464		
4,600.00	4,493.48	3,569.86	3,423.46	21.59	16.30	36.99	-3,725.25	1,035.65	3,353.61	3,320.81	32.80	102.232		
4,700.00	4,589.92	3,651.64	3,493.92	22.17	17.10	37.79	-3,752.59	1,004.43	3,364.26	3,330.37	33.89	99.263		
4,800.00	4,686.36	3,733.42	3,564.38	22.75	17.91	38.59	-3,779.94	973.20	3,375.86	3,340.89	34.97	96.533		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
4,900.00	4,782.79	3,815.20	3,634.85	23.33	18.71	39.38	-3,807.28	941.97	3,388.40	3,352.36	36.04	94.017		
5,000.00	4,879.23	3,896.98	3,705.31	23.91	19.52	40.16	-3,834.62	910.74	3,401.86	3,364.76	37.10	91.696		
5,100.00	4,975.67	3,978.76	3,775.78	24.49	20.32	40.94	-3,861.96	879.51	3,416.24	3,378.09	38.15	89.552		
5,200.00	5,072.10	4,060.54	3,846.24	25.07	21.13	41.72	-3,889.30	848.28	3,431.53	3,392.34	39.19	87.568		
5,300.00	5,168.54	4,142.32	3,916.70	25.66	21.94	42.49	-3,916.65	817.06	3,447.70	3,407.49	40.22	85.731		
5,400.00	5,264.98	4,224.10	3,987.17	26.24	22.74	43.26	-3,943.99	785.83	3,464.76	3,423.53	41.23	84.029		
5,500.00	5,361.41	4,305.88	4,057.63	26.82	23.55	44.02	-3,971.33	754.60	3,482.69	3,440.45	42.24	82.449		
5,600.00	5,457.85	4,387.66	4,128.10	27.40	24.36	44.78	-3,998.67	723.37	3,501.47	3,458.23	43.24	80.982		
5,700.00	5,554.29	4,469.44	4,198.56	27.99	25.17	45.53	-4,026.01	692.14	3,521.09	3,476.87	44.22	79.619		
5,800.00	5,650.72	4,551.22	4,269.02	28.57	25.97	46.28	-4,053.35	660.91	3,541.54	3,496.34	45.20	78.351		
5,900.00	5,747.16	4,633.00	4,339.49	29.15	26.78	47.02	-4,080.70	629.69	3,562.80	3,516.63	46.17	77.172		
6,000.00	5,843.60	4,714.78	4,409.95	29.74	27.59	47.75	-4,108.04	598.46	3,584.86	3,537.73	47.12	76.074		
6,100.00	5,940.03	4,796.56	4,480.42	30.32	28.40	48.47	-4,135.38	567.23	3,607.70	3,559.63	48.07	75.051		
6,200.00	6,036.47	4,878.34	4,550.89	30.90	29.21	49.18	-4,162.62	536.00	3,629.95	3,582.83	49.00	74.028		
6,300.00	6,132.91	4,959.72	4,621.36	31.49	30.02	50.00	-4,189.96	504.77	3,651.79	3,606.98	50.00	73.005		
6,400.00	6,229.34	5,040.60	4,691.81	32.07	30.82	50.82	-4,217.29	473.54	3,673.96	3,630.27	51.00	72.000		
6,500.00	6,325.78	5,121.48	4,764.30	32.66	31.62	51.64	-4,244.62	442.31	3,696.14	3,652.56	52.00	71.000		
6,552.14	6,376.06	5,173.74	4,816.58	32.96	31.92	52.00	-4,259.96	423.54	3,707.70	3,664.12	52.50	70.500		
6,600.00	6,422.32	5,214.00	4,857.84	33.24	32.22	52.36	-4,275.29	394.77	3,719.26	3,675.68	53.00	70.000		
6,700.00	6,519.60	5,295.88	4,930.33	33.78	32.76	52.90	-4,302.62	366.00	3,741.43	3,697.85	54.00	69.000		
6,800.00	6,617.63	5,377.76	5,002.81	34.27	33.29	53.44	-4,329.96	337.23	3,763.60	3,719.99	55.00	68.000		
6,900.00	6,716.28	5,459.64	5,075.29	34.72	33.79	53.98	-4,357.29	308.46	3,785.77	3,742.16	56.00	67.000		
7,000.00	6,815.45	5,541.52	5,147.77	35.13	34.29	54.52	-4,384.62	279.69	3,807.94	3,764.33	57.00	66.000		
7,100.00	6,915.00	5,623.40	5,220.25	35.49	34.79	55.06	-4,411.96	250.92	3,830.11	3,786.50	58.00	65.000		
7,122.63	6,937.58	5,645.88	5,242.73	35.56	34.86	55.13	-4,419.29	232.15	3,839.34	3,795.73	62.99	56.111		
7,200.00	7,014.82	5,707.76	5,315.21	35.81	35.11	55.38	-4,429.96	203.38	3,851.51	3,807.90	63.30	55.851		
7,300.00	7,114.79	5,789.64	5,387.69	36.09	35.39	55.64	-4,440.62	174.61	3,863.68	3,819.07	63.65	55.639		
7,319.21	7,134.00	5,812.12	5,410.17	36.14	35.44	55.69	-4,445.96	155.84	3,868.01	3,823.40	63.71	55.615		
7,400.00	7,214.79	5,894.00	5,482.65	36.33	35.63	55.83	-4,456.29	127.07	3,879.18	3,834.57	63.92	55.555		
7,419.21	7,234.00	5,916.48	5,505.17	36.37	35.67	55.87	-4,461.62	108.30	3,883.51	3,838.90	63.97	55.549		
7,450.00	7,264.77	5,938.96	5,527.65	36.46	35.76	55.92	-4,466.96	89.53	3,887.84	3,843.23	64.04	55.529		
7,500.00	7,314.52	5,980.84	5,579.53	36.62	35.92	56.08	-4,477.29	60.76	3,899.01	3,854.50	64.17	55.450		
7,550.00	7,363.66	6,022.72	5,621.41	36.81	36.11	56.24	-4,487.62	31.99	3,910.18	3,865.67	64.30	55.313		
7,600.00	7,411.80	6,064.60	5,663.29	37.03	36.33	56.40	-4,497.96	3.22	3,921.35	3,876.84	64.43	55.121		
7,650.00	7,458.60	6,106.48	5,705.17	37.29	36.59	56.66	-4,508.29	-25.55	3,932.52	3,888.01	64.56	54.876		
7,700.00	7,503.68	6,148.36	5,747.05	37.57	36.87	56.92	-4,518.62	-56.78	3,943.69	3,899.18	64.69	54.580		
7,750.00	7,546.72	6,190.24	5,788.93	37.89	37.19	57.18	-4,528.96	-88.01	3,954.86	3,910.35	64.82	54.233		
7,800.00	7,587.37	6,232.12	5,830.81	38.23	37.53	57.52	-4,539.29	-119.24	3,966.03	3,921.52	64.94	53.839		
7,850.00	7,625.34	6,274.00	5,872.69	38.59	37.89	57.88	-4,549.62	-150.47	3,977.20	3,932.69	65.06	53.400		
7,900.00	7,660.33	6,315.88	5,914.57	38.99	38.29	58.24	-4,559.96	-181.70	3,988.37	3,943.86	65.18	52.917		
7,950.00	7,692.07	6,357.76	5,956.45	39.40	38.70	58.60	-4,570.29	-212.93	3,999.54	3,955.03	65.29	52.392		
8,000.00	7,720.33	6,400.64	6,000.33	39.85	39.15	58.96	-4,580.62	-244.16	4,010.71	3,966.20	65.40	51.829		
8,050.00	7,744.88	6,442.52	6,042.21	40.31	39.61	59.32	-4,590.96	-275.39	4,021.88	3,977.37	65.51	51.228		
8,100.00	7,765.55	6,484.40	6,084.09	40.79	40.09	59.68	-4,601.29	-306.62	4,033.05	3,988.54	65.61	50.593		
8,150.00	7,782.18	6,526.28	6,125.97	41.30	40.60	60.04	-4,611.62	-337.85	4,044.22	3,999.71	65.72	49.926		
8,200.00	7,794.63	6,568.16	6,167.85	41.81	41.11	60.40	-4,621.96	-369.08	4,055.39	4,010.88	65.82	49.228		
8,250.00	7,802.82	6,610.04	6,209.73	42.34	41.64	60.76	-4,632.29	-400.31	4,066.56	4,022.05	65.92	48.504		
8,300.00	7,806.68	6,651.92	6,251.61	42.88	42.18	61.12	-4,642.62	-431.54	4,077.73	4,033.22	66.03	47.756		
8,319.29	7,807.00	6,674.40	6,274.09	43.09	42.39	61.33	-4,647.96	-452.77	4,082.90	4,038.39	66.07	47.460		
8,400.00	7,807.00	6,716.28	6,315.97	43.98	43.28	62.00	-4,658.29	-484.00	4,094.07	4,049.56	66.24	46.229		
8,500.00	7,807.00	6,758.16	6,357.85	45.12	44.42	63.14	-4,668.62	-515.23	4,105.24	4,060.73	66.47	44.712		
8,600.00	7,806.99	6,800.04	6,400.73	46.31	45.61	64.28	-4,678.96	-546.46	4,116.41	4,071.90	66.71	43.205		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,700.00	7,806.99	7,178.00	6,780.33	47.53	39.14	40.07	-4,421.92	239.96	2,793.31	2,726.34	66.97	41.709		
8,800.00	7,806.99	7,178.00	6,780.33	48.78	39.14	40.07	-4,421.92	239.96	2,705.09	2,637.84	67.25	40.225		
8,900.00	7,806.99	7,178.00	6,780.33	50.07	39.14	40.07	-4,421.92	239.96	2,617.72	2,550.18	67.54	38.755		
9,000.00	7,806.98	7,178.00	6,780.33	51.38	39.14	40.07	-4,421.92	239.96	2,531.29	2,463.43	67.86	37.301		
9,100.00	7,806.98	7,178.00	6,780.33	52.72	39.14	40.07	-4,421.92	239.96	2,445.89	2,377.69	68.20	35.864		
9,200.00	7,806.98	7,178.00	6,780.33	54.09	39.14	40.07	-4,421.92	239.96	2,361.63	2,293.07	68.56	34.446		
9,300.00	7,806.98	7,178.00	6,780.33	55.48	39.14	40.07	-4,421.92	239.96	2,278.65	2,209.71	68.95	33.050		
9,400.00	7,806.97	7,178.00	6,780.33	56.89	39.14	40.07	-4,421.92	239.96	2,197.09	2,127.73	69.36	31.678		
9,500.00	7,806.97	7,178.00	6,780.33	58.32	39.14	40.07	-4,421.92	239.96	2,117.11	2,047.31	69.80	30.332		
9,600.00	7,806.97	7,178.00	6,780.33	59.77	39.14	40.07	-4,421.92	239.96	2,038.90	1,968.63	70.27	29.017		
9,700.00	7,806.97	7,178.00	6,780.33	61.23	39.14	40.07	-4,421.92	239.96	1,962.66	1,891.90	70.77	27.735		
9,800.00	7,806.96	7,178.00	6,780.33	62.71	39.14	40.07	-4,421.92	239.96	1,888.65	1,817.35	71.30	26.489		
9,900.00	7,806.96	7,178.00	6,780.33	64.21	39.14	40.07	-4,421.92	239.96	1,817.12	1,745.26	71.86	25.286		
10,000.00	7,806.96	7,178.00	6,780.33	65.72	39.14	40.07	-4,421.92	239.96	1,748.39	1,675.93	72.46	24.128		
10,100.00	7,806.96	7,178.00	6,780.33	67.24	39.14	40.07	-4,421.92	239.96	1,682.80	1,609.71	73.10	23.021		
10,200.00	7,806.95	7,178.00	6,780.33	68.78	39.14	40.07	-4,421.92	239.96	1,620.73	1,546.97	73.77	21.971		
10,300.00	7,806.95	7,178.00	6,780.33	70.32	39.14	40.07	-4,421.92	239.96	1,562.60	1,488.13	74.47	20.982		
10,400.00	7,806.95	7,178.00	6,780.33	71.88	39.14	40.07	-4,421.92	239.96	1,508.86	1,433.65	75.21	20.062		
10,500.00	7,806.95	7,178.00	6,780.33	73.45	39.14	40.07	-4,421.92	239.96	1,460.01	1,384.03	75.98	19.216		
10,600.00	7,806.95	7,178.00	6,780.33	75.02	39.14	40.07	-4,421.92	239.96	1,416.53	1,339.76	76.77	18.452		
10,700.00	7,806.94	7,178.00	6,780.33	76.61	39.14	40.07	-4,421.92	239.96	1,378.95	1,301.38	77.57	17.776		
10,800.00	7,806.94	7,178.00	6,780.33	78.20	39.14	40.07	-4,421.92	239.96	1,347.76	1,269.39	78.37	17.196		
10,900.00	7,806.94	7,178.00	6,780.33	79.80	39.14	40.07	-4,421.92	239.96	1,323.41	1,244.26	79.15	16.721		
11,000.00	7,806.94	7,178.00	6,780.33	81.41	39.14	40.07	-4,421.92	239.96	1,306.27	1,226.41	79.86	16.357		
11,100.00	7,806.93	7,178.00	6,780.33	83.02	39.14	40.07	-4,421.92	239.96	1,296.65	1,216.16	80.49	16.110		
11,175.27	7,806.93	7,178.00	6,780.33	84.24	39.14	40.07	-4,421.92	239.96	1,294.46	1,213.59	80.87	16.006 CC, ES		
11,200.00	7,806.93	7,178.00	6,780.33	84.64	39.14	40.07	-4,421.92	239.96	1,294.70	1,213.72	80.98	15.988 SF		
11,300.00	7,806.93	7,178.00	6,780.33	86.27	39.14	40.07	-4,421.92	239.96	1,300.46	1,219.14	81.32	15.992		
11,400.00	7,806.93	7,178.00	6,780.33	87.90	39.14	40.07	-4,421.92	239.96	1,313.83	1,232.34	81.49	16.123		
11,500.00	7,806.92	7,178.00	6,780.33	89.54	39.14	40.07	-4,421.92	239.96	1,334.57	1,253.10	81.47	16.381		
11,600.00	7,806.92	7,178.00	6,780.33	91.18	39.14	40.07	-4,421.92	239.96	1,362.36	1,281.08	81.28	16.761		
11,700.00	7,806.92	7,178.00	6,780.33	92.83	39.14	40.07	-4,421.92	239.96	1,396.77	1,315.84	80.93	17.259		
11,800.00	7,806.92	7,178.00	6,780.33	94.48	39.14	40.07	-4,421.92	239.96	1,437.33	1,356.88	80.45	17.866		
11,900.00	7,806.91	7,178.00	6,780.33	96.14	39.14	40.07	-4,421.92	239.96	1,483.53	1,403.67	79.87	18.575		
12,000.00	7,806.91	7,178.00	6,780.33	97.80	39.14	40.07	-4,421.92	239.96	1,534.87	1,455.66	79.21	19.378		
12,100.00	7,806.91	7,178.00	6,780.33	99.46	39.14	40.07	-4,421.92	239.96	1,590.84	1,512.34	78.50	20.265		
12,200.00	7,806.91	7,178.00	6,780.33	101.13	39.14	40.07	-4,421.92	239.96	1,650.97	1,573.21	77.77	21.230		
12,300.00	7,806.90	7,178.00	6,780.33	102.80	39.14	40.07	-4,421.92	239.96	1,714.83	1,637.81	77.03	22.263		
12,400.00	7,806.90	7,178.00	6,780.33	104.47	39.14	40.07	-4,421.92	239.96	1,782.02	1,705.72	76.30	23.356		
12,500.00	7,806.90	7,178.00	6,780.33	106.15	39.14	40.07	-4,421.92	239.96	1,852.17	1,776.59	75.59	24.503		
12,600.00	7,806.90	7,178.00	6,780.33	107.83	39.14	40.07	-4,421.92	239.96	1,924.97	1,850.06	74.91	25.697		
12,700.00	7,806.89	7,178.00	6,780.33	109.52	39.14	40.07	-4,421.92	239.96	2,000.11	1,925.85	74.26	26.933		
12,800.00	7,806.89	7,178.00	6,780.33	111.20	39.14	40.07	-4,421.92	239.96	2,077.35	2,003.70	73.66	28.204		
12,900.00	7,806.89	7,178.00	6,780.33	112.89	39.14	40.07	-4,421.92	239.96	2,156.46	2,083.38	73.09	29.505		
13,000.00	7,806.89	7,178.00	6,780.33	114.59	39.14	40.07	-4,421.92	239.96	2,237.25	2,164.69	72.56	30.834		
13,100.00	7,806.88	7,178.00	6,780.33	116.28	39.14	40.07	-4,421.92	239.96	2,319.53	2,247.46	72.07	32.185		
13,200.00	7,806.88	7,178.00	6,780.33	117.98	39.14	40.07	-4,421.92	239.96	2,403.16	2,331.54	71.62	33.556		
13,300.00	7,806.88	7,178.00	6,780.33	119.68	39.14	40.07	-4,421.92	239.96	2,488.00	2,416.80	71.20	34.944		
13,400.00	7,806.88	7,178.00	6,780.33	121.38	39.14	40.07	-4,421.92	239.96	2,573.92	2,503.10	70.82	36.345		
13,500.00	7,806.88	7,178.00	6,780.33	123.08	39.14	40.07	-4,421.92	239.96	2,660.83	2,590.36	70.47	37.759		
13,600.00	7,806.87	7,178.00	6,780.33	124.79	39.14	40.07	-4,421.92	239.96	2,748.63	2,678.48	70.15	39.182		
13,700.00	7,806.87	7,178.00	6,780.33	126.49	39.14	40.07	-4,421.92	239.96	2,837.24	2,767.38	69.86	40.614		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 33-T1N-R68W - ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
13,800.00	7,806.87	7,178.00	6,780.33	128.20	39.14	40.07	-4,421.92	239.96	2,926.58	2,856.98	69.59	42.052		
13,900.00	7,806.87	7,178.00	6,780.33	129.91	39.14	40.07	-4,421.92	239.96	3,016.59	2,947.23	69.35	43.495		
14,000.00	7,806.86	7,178.00	6,780.33	131.62	39.14	40.07	-4,421.92	239.96	3,107.21	3,038.07	69.14	44.943		
14,100.00	7,806.86	7,178.00	6,780.33	133.34	39.14	40.07	-4,421.92	239.96	3,198.39	3,129.45	68.94	46.394		
14,200.00	7,806.86	7,178.00	6,780.33	135.05	39.14	40.07	-4,421.92	239.96	3,290.08	3,221.32	68.76	47.848		
14,300.00	7,806.86	7,178.00	6,780.33	136.77	39.14	40.07	-4,421.92	239.96	3,382.25	3,313.64	68.60	49.303		
14,400.00	7,806.85	7,178.00	6,780.33	138.49	39.14	40.07	-4,421.92	239.96	3,474.84	3,406.39	68.46	50.759		
14,500.00	7,806.85	7,178.00	6,780.33	140.21	39.14	40.07	-4,421.92	239.96	3,567.84	3,499.51	68.33	52.215		
14,600.00	7,806.85	7,178.00	6,780.33	141.93	39.14	40.07	-4,421.92	239.96	3,661.21	3,592.99	68.21	53.672		
14,700.00	7,806.85	7,178.00	6,780.33	143.65	39.14	40.07	-4,421.92	239.96	3,754.91	3,686.80	68.11	55.128		
14,800.00	7,806.84	7,178.00	6,780.33	145.37	39.14	40.07	-4,421.92	239.96	3,848.94	3,780.91	68.02	56.583		
14,900.00	7,806.84	7,178.00	6,780.33	147.10	39.14	40.07	-4,421.92	239.96	3,943.26	3,875.31	67.94	58.036		
15,000.00	7,806.84	7,178.00	6,780.33	148.83	39.14	40.07	-4,421.92	239.96	4,037.85	3,969.97	67.88	59.488		
15,100.00	7,806.84	7,178.00	6,780.33	150.55	39.14	40.07	-4,421.92	239.96	4,132.69	4,064.88	67.82	60.938		
15,200.00	7,806.83	7,178.00	6,780.33	152.28	39.14	40.07	-4,421.92	239.96	4,227.78	4,160.01	67.77	62.386		
15,300.00	7,806.83	7,178.00	6,780.33	154.01	39.14	40.07	-4,421.92	239.96	4,323.08	4,255.36	67.73	63.832		
15,400.00	7,806.83	7,178.00	6,780.33	155.74	39.14	40.07	-4,421.92	239.96	4,418.60	4,350.91	67.69	65.275		
15,500.00	7,806.83	7,178.00	6,780.33	157.47	39.14	40.07	-4,421.92	239.96	4,514.31	4,446.64	67.67	66.715		
15,600.00	7,806.82	7,178.00	6,780.33	159.20	39.14	40.07	-4,421.92	239.96	4,610.19	4,542.55	67.64	68.153		
15,700.00	7,806.82	7,178.00	6,780.33	160.93	39.14	40.07	-4,421.92	239.96	4,706.26	4,638.62	67.63	69.587		
15,800.00	7,806.82	7,178.00	6,780.33	162.67	39.14	40.07	-4,421.92	239.96	4,802.48	4,734.85	67.62	71.019		
15,900.00	7,806.82	7,178.00	6,780.33	164.40	39.14	40.07	-4,421.92	239.96	4,898.85	4,831.23	67.62	72.447		
16,000.00	7,806.81	7,178.00	6,780.33	166.14	39.14	40.07	-4,421.92	239.96	4,995.37	4,927.74	67.62	73.872		
16,100.00	7,806.81	7,178.00	6,780.33	167.87	39.14	40.07	-4,421.92	239.96	5,092.02	5,024.39	67.63	75.293		
16,200.00	7,806.81	7,178.00	6,780.33	169.61	39.14	40.07	-4,421.92	239.96	5,188.79	5,121.15	67.64	76.711		
16,300.00	7,806.81	7,178.00	6,780.33	171.35	39.14	40.07	-4,421.92	239.96	5,285.69	5,218.03	67.66	78.125		
16,400.00	7,806.81	7,178.00	6,780.33	173.09	39.14	40.07	-4,421.92	239.96	5,382.70	5,315.02	67.68	79.536		
16,500.00	7,806.80	7,178.00	6,780.33	174.83	39.14	40.07	-4,421.92	239.96	5,479.82	5,412.12	67.70	80.942		
16,600.00	7,806.80	7,178.00	6,780.33	176.57	39.14	40.07	-4,421.92	239.96	5,577.04	5,509.31	67.73	82.345		
16,700.00	7,806.80	7,178.00	6,780.33	178.31	39.14	40.07	-4,421.92	239.96	5,674.36	5,606.60	67.76	83.745		
16,800.00	7,806.80	7,178.00	6,780.33	180.05	39.14	40.07	-4,421.92	239.96	5,771.76	5,703.97	67.79	85.140		
16,900.00	7,806.79	7,178.00	6,780.33	181.79	39.14	40.07	-4,421.92	239.96	5,869.26	5,801.43	67.83	86.531		
17,000.00	7,806.79	7,178.00	6,780.33	183.53	39.14	40.07	-4,421.92	239.96	5,966.84	5,898.97	67.87	87.919		
17,100.00	7,806.79	7,178.00	6,780.33	185.27	39.14	40.07	-4,421.92	239.96	6,064.49	5,996.58	67.91	89.302		
17,200.00	7,806.79	7,178.00	6,780.33	187.02	39.14	40.07	-4,421.92	239.96	6,162.23	6,094.27	67.95	90.681		
17,300.00	7,806.78	7,178.00	6,780.33	188.76	39.14	40.07	-4,421.92	239.96	6,260.03	6,192.03	68.00	92.056		
17,400.00	7,806.78	7,178.00	6,780.33	190.51	39.14	40.07	-4,421.92	239.96	6,357.90	6,289.85	68.05	93.427		
17,500.00	7,806.78	7,178.00	6,780.33	192.25	39.14	40.07	-4,421.92	239.96	6,455.84	6,387.74	68.10	94.794		
17,600.00	7,806.78	7,178.00	6,780.33	194.00	39.14	40.07	-4,421.92	239.96	6,553.84	6,485.68	68.16	96.157		
17,700.00	7,806.77	7,178.00	6,780.33	195.74	39.14	40.07	-4,421.92	239.96	6,651.90	6,583.69	68.21	97.516		
17,800.00	7,806.77	7,178.00	6,780.33	197.49	39.14	40.07	-4,421.92	239.96	6,750.02	6,681.74	68.27	98.870		
17,900.00	7,806.77	7,178.00	6,780.33	199.24	39.14	40.07	-4,421.92	239.96	6,848.19	6,779.86	68.33	100.220		
17,973.82	7,807.00	7,178.00	6,780.33	200.53	39.14	40.06	-4,421.92	239.96	6,920.70	6,852.33	68.38	101.216		
17,974.53	7,807.00	7,178.00	6,780.33	200.55	39.14	40.06	-4,421.92	239.96	6,921.40	6,849.69	71.71	96.519		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	154.59	-3,282.69	1,559.33	3,634.42					
100.00	100.00	62.00	62.00	0.13	0.72	154.59	-3,282.69	1,559.33	3,634.22	3,633.37	0.85	4,262.707		
200.00	200.00	162.00	162.00	0.49	2.58	154.59	-3,282.69	1,559.33	3,634.22	3,631.14	3.08	1,181.363		
300.00	300.00	262.00	262.00	0.85	4.75	154.59	-3,282.69	1,559.33	3,634.22	3,628.62	5.60	649.292		
400.00	400.00	362.00	362.00	1.21	6.80	154.59	-3,282.69	1,559.33	3,634.22	3,626.21	8.01	453.599		
500.00	500.00	462.00	462.00	1.57	8.84	154.59	-3,282.69	1,559.33	3,634.22	3,623.82	10.40	349.290		
600.00	600.00	562.00	562.00	1.93	10.86	154.59	-3,282.69	1,559.33	3,634.22	3,621.43	12.79	284.184		
700.00	700.00	662.00	662.00	2.29	12.88	154.59	-3,282.69	1,559.33	3,634.22	3,619.05	15.17	239.608		
800.00	800.00	762.00	762.00	2.64	14.90	154.59	-3,282.69	1,559.33	3,634.22	3,616.68	17.54	207.151		
900.00	900.00	862.00	862.00	3.00	16.92	154.59	-3,282.69	1,559.33	3,634.22	3,614.30	19.92	182.454		
1,000.00	1,000.00	962.00	962.00	3.36	18.93	154.59	-3,282.69	1,559.33	3,634.22	3,611.93	22.29	163.027		
1,100.00	1,100.00	1,062.00	1,062.00	3.72	20.95	154.59	-3,282.69	1,559.33	3,634.22	3,609.55	24.66	147.344		
1,200.00	1,199.98	1,161.98	1,161.98	4.06	22.96	21.43	-3,282.69	1,559.33	3,632.60	3,605.57	27.02	134.430		
1,300.00	1,299.84	1,261.84	1,261.84	4.40	24.97	21.49	-3,282.69	1,559.33	3,627.72	3,598.36	29.37	123.532		
1,400.00	1,399.45	1,361.45	1,361.45	4.74	26.97	21.60	-3,282.69	1,559.33	3,619.61	3,587.90	31.71	114.144		
1,500.00	1,498.70	1,460.70	1,460.70	5.09	28.97	21.76	-3,282.69	1,559.33	3,608.28	3,574.23	34.05	105.964		
1,600.00	1,597.47	1,559.47	1,559.47	5.46	30.96	21.96	-3,282.69	1,559.33	3,593.73	3,557.35	36.39	98.763		
1,700.00	1,695.62	1,657.62	1,657.62	5.85	32.93	22.21	-3,282.69	1,559.33	3,576.01	3,537.29	38.72	92.365		
1,800.00	1,793.06	1,755.06	1,755.06	6.27	34.90	22.51	-3,282.69	1,559.33	3,555.13	3,514.09	41.04	86.636		
1,867.07	1,857.94	1,819.94	1,819.94	6.57	36.20	22.74	-3,282.69	1,559.33	3,539.38	3,496.79	42.59	83.110		
1,900.00	1,889.69	1,851.69	1,851.69	6.72	36.84	22.79	-3,282.69	1,559.33	3,531.30	3,487.95	43.35	81.466		
2,000.00	1,986.13	1,948.13	1,948.13	7.19	38.78	22.96	-3,282.69	1,559.33	3,506.79	3,461.14	45.65	76.812		
2,100.00	2,082.57	2,044.57	2,044.57	7.68	40.72	23.13	-3,282.69	1,559.33	3,482.32	3,434.35	47.97	72.597		
2,200.00	2,179.00	2,141.00	2,141.00	8.18	42.66	23.30	-3,282.69	1,559.33	3,457.87	3,407.58	50.29	68.762		
2,300.00	2,275.44	2,237.44	2,237.44	8.69	44.60	23.48	-3,282.69	1,559.33	3,433.45	3,380.84	52.61	65.260		
2,400.00	2,371.88	2,333.88	2,333.88	9.21	46.54	23.65	-3,282.69	1,559.33	3,409.06	3,354.12	54.94	62.049		
2,500.00	2,468.31	2,430.31	2,430.31	9.74	48.48	23.83	-3,282.69	1,559.33	3,384.70	3,327.43	57.27	59.096		
2,600.00	2,564.75	2,526.75	2,526.75	10.28	50.42	24.01	-3,282.69	1,559.33	3,360.38	3,300.77	59.61	56.371		
2,700.00	2,661.19	2,623.19	2,623.19	10.82	52.36	24.19	-3,282.69	1,559.33	3,336.09	3,274.13	61.95	53.849		
2,800.00	2,757.62	2,719.62	2,719.62	11.37	54.30	24.38	-3,282.69	1,559.33	3,311.83	3,247.53	64.30	51.509		
2,900.00	2,854.06	2,816.06	2,816.06	11.92	56.24	24.57	-3,282.69	1,559.33	3,287.60	3,220.96	66.64	49.331		
3,000.00	2,950.50	2,912.50	2,912.50	12.47	58.18	24.76	-3,282.69	1,559.33	3,263.41	3,194.42	68.99	47.301		
3,100.00	3,046.93	3,008.93	3,008.93	13.03	60.12	24.96	-3,282.69	1,559.33	3,239.26	3,167.91	71.35	45.402		
3,200.00	3,143.37	3,105.37	3,105.37	13.59	62.06	25.15	-3,282.69	1,559.33	3,215.14	3,141.44	73.70	43.624		
3,300.00	3,239.81	3,201.81	3,201.81	14.15	64.00	25.36	-3,282.69	1,559.33	3,191.06	3,115.00	76.06	41.956		
3,400.00	3,336.24	3,301.76	3,298.24	14.72	66.01	25.56	-3,282.69	1,559.33	3,167.01	3,088.52	78.49	40.350		
3,500.00	3,432.68	3,405.32	3,394.68	15.28	68.09	25.77	-3,282.69	1,559.33	3,143.01	3,062.01	80.99	38.805		
3,600.00	3,529.12	3,508.88	3,491.12	15.85	70.17	25.98	-3,282.69	1,559.33	3,119.04	3,035.54	83.50	37.353		
3,700.00	3,625.55	3,587.55	3,587.55	16.42	71.76	26.19	-3,282.69	1,559.33	3,095.11	3,009.60	85.51	36.195		
3,800.00	3,721.99	3,683.99	3,683.99	16.99	73.69	26.41	-3,282.69	1,559.33	3,071.23	2,983.35	87.88	34.948		
3,900.00	3,818.43	3,780.43	3,780.43	17.56	75.63	26.62	-3,282.69	1,559.33	3,047.39	2,957.14	90.25	33.766		
4,000.00	3,914.86	3,876.86	3,876.86	18.14	77.57	26.85	-3,282.69	1,559.33	3,023.59	2,930.97	92.62	32.644		
4,100.00	4,011.30	3,973.30	3,973.30	18.71	79.51	27.07	-3,282.69	1,559.33	2,999.84	2,904.84	95.00	31.577		
4,200.00	4,107.74	4,069.74	4,069.74	19.29	81.45	27.30	-3,282.69	1,559.33	2,976.13	2,878.75	97.38	30.563		
4,300.00	4,204.17	4,166.17	4,166.17	19.86	83.39	27.54	-3,282.69	1,559.33	2,952.47	2,852.71	99.76	29.597		
4,400.00	4,300.61	4,262.61	4,262.61	20.44	85.33	27.78	-3,282.69	1,559.33	2,928.86	2,826.72	102.14	28.675		
4,500.00	4,397.05	4,359.05	4,359.05	21.02	87.27	28.02	-3,282.69	1,559.33	2,905.29	2,800.77	104.52	27.796		
4,600.00	4,493.48	4,455.48	4,455.48	21.59	89.21	28.26	-3,282.69	1,559.33	2,881.78	2,774.87	106.91	26.955		
4,700.00	4,589.92	4,551.92	4,551.92	22.17	91.15	28.51	-3,282.69	1,559.33	2,858.32	2,749.02	109.30	26.151		
4,800.00	4,686.36	4,648.36	4,648.36	22.75	93.09	28.76	-3,282.69	1,559.33	2,834.91	2,723.22	111.69	25.382		
4,900.00	4,782.79	4,744.79	4,744.79	23.33	95.03	29.02	-3,282.69	1,559.33	2,811.55	2,697.47	114.08	24.645		
5,000.00	4,879.23	4,841.23	4,841.23	23.91	96.97	29.28	-3,282.69	1,559.33	2,788.25	2,671.77	116.48	23.938		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,937.67	4,937.67	24.49	98.91	29.55	-3,282.69	1,559.33	2,765.01	2,646.13	118.88	23.259		
5,200.00	5,072.10	5,034.10	5,034.10	25.07	100.85	29.82	-3,282.69	1,559.33	2,741.83	2,620.55	121.28	22.608		
5,300.00	5,168.54	5,130.54	5,130.54	25.66	102.79	30.09	-3,282.69	1,559.33	2,718.70	2,595.02	123.68	21.982		
5,400.00	5,264.98	5,226.98	5,226.98	26.24	104.73	30.37	-3,282.69	1,559.33	2,695.64	2,569.55	126.09	21.379		
5,500.00	5,361.41	5,323.41	5,323.41	26.82	106.67	30.66	-3,282.69	1,559.33	2,672.64	2,544.14	128.50	20.799		
5,600.00	5,457.85	5,419.85	5,419.85	27.40	108.60	30.95	-3,282.69	1,559.33	2,649.70	2,518.79	130.91	20.241		
5,700.00	5,554.29	5,516.29	5,516.29	27.99	110.54	31.24	-3,282.69	1,559.33	2,626.83	2,493.51	133.32	19.703		
5,800.00	5,650.72	5,612.72	5,612.72	28.57	112.48	31.54	-3,282.69	1,559.33	2,604.03	2,468.29	135.74	19.184		
5,900.00	5,747.16	5,709.16	5,709.16	29.15	114.42	31.84	-3,282.69	1,559.33	2,581.29	2,443.14	138.16	18.684		
6,000.00	5,843.60	5,805.60	5,805.60	29.74	116.36	32.15	-3,282.69	1,559.33	2,558.63	2,418.05	140.58	18.201		
6,100.00	5,940.03	5,902.03	5,902.03	30.32	118.30	32.47	-3,282.69	1,559.33	2,536.04	2,393.04	143.00	17.734		
6,200.00	6,036.47	6,001.53	5,998.47	30.90	120.30	32.79	-3,282.69	1,559.33	2,513.53	2,368.04	145.49	17.276		
6,300.00	6,132.91	6,105.09	6,094.91	31.49	122.39	33.11	-3,282.69	1,559.33	2,491.10	2,343.03	148.07	16.824		
6,400.00	6,229.34	6,208.66	6,191.34	32.07	124.47	33.45	-3,282.69	1,559.33	2,468.74	2,318.10	150.65	16.387		
6,500.00	6,325.78	6,287.78	6,287.78	32.66	126.06	33.78	-3,282.69	1,559.33	2,446.47	2,293.73	152.74	16.017		
6,552.14	6,376.06	6,338.06	6,338.06	32.96	127.07	33.96	-3,282.69	1,559.33	2,434.89	2,280.88	154.01	15.810		
6,600.00	6,422.32	6,384.32	6,384.32	33.24	128.00	34.01	-3,282.69	1,559.33	2,424.61	2,269.43	155.18	15.625		
6,700.00	6,519.60	6,481.60	6,481.60	33.78	129.96	34.09	-3,282.69	1,559.33	2,405.26	2,247.65	157.61	15.260		
6,800.00	6,617.63	6,579.63	6,579.63	34.27	131.93	34.17	-3,282.69	1,559.33	2,388.82	2,228.78	160.04	14.926		
6,900.00	6,716.28	6,678.28	6,678.28	34.72	133.91	34.23	-3,282.69	1,559.33	2,375.28	2,212.83	162.45	14.622		
7,000.00	6,815.45	6,777.45	6,777.45	35.13	135.91	34.29	-3,282.69	1,559.33	2,364.63	2,199.78	164.84	14.345		
7,100.00	6,915.00	6,877.00	6,877.00	35.49	137.91	34.33	-3,282.69	1,559.33	2,356.87	2,189.65	167.22	14.095		
7,200.00	7,014.82	6,976.82	6,976.82	35.81	139.92	34.35	-3,282.69	1,559.33	2,351.99	2,182.42	169.57	13.871		
7,300.00	7,114.79	7,076.79	7,076.79	36.09	141.93	34.36	-3,282.69	1,559.33	2,349.99	2,178.11	171.89	13.672		
7,319.21	7,134.00	7,104.00	7,096.00	36.14	142.47	167.55	-3,282.69	1,559.33	2,349.94	2,177.45	172.49	13.624		
7,400.00	7,214.79	7,176.79	7,176.79	36.33	143.94	167.55	-3,282.69	1,559.33	2,349.94	2,175.76	174.18	13.491		
7,419.21	7,234.00	7,204.00	7,196.00	36.37	144.48	167.55	-3,282.69	1,559.33	2,349.94	2,175.16	174.78	13.445		
7,450.00	7,264.77	7,226.77	7,226.77	36.46	144.94	-12.13	-3,282.69	1,559.33	2,349.13	2,173.81	175.33	13.399		
7,500.00	7,314.52	7,276.52	7,276.52	36.62	145.94	-12.26	-3,282.69	1,559.33	2,344.38	2,167.91	176.47	13.285		
7,550.00	7,363.66	7,325.66	7,325.66	36.81	146.93	-12.50	-3,282.69	1,559.33	2,335.41	2,157.81	177.60	13.150		
7,600.00	7,411.80	7,373.80	7,373.80	37.03	147.90	-12.87	-3,282.69	1,559.33	2,322.29	2,143.59	178.71	12.995		
7,650.00	7,458.60	7,420.60	7,420.60	37.29	148.84	-13.38	-3,282.69	1,559.33	2,305.13	2,125.35	179.78	12.822		
7,700.00	7,503.68	7,465.68	7,465.68	37.57	149.75	-14.06	-3,282.69	1,559.33	2,284.05	2,103.25	180.81	12.633		
7,750.00	7,546.72	7,508.72	7,508.72	37.89	150.61	-14.94	-3,282.69	1,559.33	2,259.23	2,077.45	181.78	12.428		
7,800.00	7,587.37	7,549.37	7,549.37	38.23	151.43	-16.06	-3,282.69	1,559.33	2,230.86	2,048.17	182.69	12.211		
7,850.00	7,625.34	7,587.34	7,587.34	38.59	152.19	-17.48	-3,282.69	1,559.33	2,199.16	2,015.63	183.53	11.982		
7,900.00	7,660.33	7,622.33	7,622.33	38.99	152.90	-19.29	-3,282.69	1,559.33	2,164.39	1,980.09	184.30	11.744		
7,950.00	7,692.07	7,654.07	7,654.07	39.40	153.54	-21.63	-3,282.69	1,559.33	2,126.81	1,941.84	184.97	11.498		
8,000.00	7,720.33	7,682.33	7,682.33	39.85	154.10	-24.69	-3,282.69	1,559.33	2,086.73	1,901.17	185.56	11.246		
8,050.00	7,744.88	7,706.88	7,706.88	40.31	154.60	-28.75	-3,282.69	1,559.33	2,044.45	1,858.40	186.05	10.989		
8,100.00	7,765.55	7,727.55	7,727.55	40.79	155.01	-34.25	-3,282.69	1,559.33	2,000.31	1,813.88	186.43	10.729		
8,150.00	7,782.18	7,744.18	7,744.18	41.30	155.35	-41.83	-3,282.69	1,559.33	1,954.66	1,767.95	186.72	10.469		
8,200.00	7,794.63	7,756.63	7,756.63	41.81	155.60	-52.31	-3,282.69	1,559.33	1,907.86	1,720.97	186.89	10.208		
8,250.00	7,802.82	7,764.82	7,764.82	42.34	155.76	-66.30	-3,282.69	1,559.33	1,860.27	1,673.31	186.96	9.950		
8,300.00	7,806.68	7,768.68	7,768.68	42.88	155.84	-83.21	-3,282.69	1,559.33	1,812.26	1,625.34	186.92	9.695		
8,319.29	7,807.00	7,769.00	7,769.00	43.09	155.85	-90.00	-3,282.69	1,559.33	1,793.71	1,606.83	186.88	9.598		
8,400.00	7,807.00	7,769.00	7,769.00	43.98	155.85	-90.00	-3,282.69	1,559.33	1,716.25	1,529.58	186.66	9.194		
8,500.00	7,807.00	7,769.00	7,769.00	45.12	155.85	-90.00	-3,282.69	1,559.33	1,620.72	1,434.31	186.40	8.695		
8,600.00	7,806.99	7,768.99	7,768.99	46.31	155.85	-90.00	-3,282.69	1,559.33	1,525.76	1,339.61	186.15	8.196		
8,700.00	7,806.99	7,768.99	7,768.99	47.53	155.85	-90.00	-3,282.69	1,559.33	1,431.48	1,245.56	185.92	7.699		
8,800.00	7,806.99	7,768.99	7,768.99	48.78	155.85	-90.00	-3,282.69	1,559.33	1,338.04	1,152.30	185.74	7.204		
8,900.00	7,806.99	7,768.99	7,768.99	50.07	155.85	-90.00	-3,282.69	1,559.33	1,245.62	1,059.99	185.63	6.710		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	155.85	-90.00	-3,282.69	1,559.33	1,154.46	968.82	185.64	6.219		
9,100.00	7,806.98	7,768.98	7,768.98	52.72	155.85	-90.00	-3,282.69	1,559.33	1,064.89	879.04	185.85	5.730		
9,200.00	7,806.98	7,768.98	7,768.98	54.09	155.85	-90.00	-3,282.69	1,559.33	977.34	791.00	186.35	5.245		
9,300.00	7,806.98	7,768.98	7,768.98	55.48	155.85	-90.00	-3,282.69	1,559.33	892.42	705.13	187.29	4.765		
9,400.00	7,806.97	7,768.97	7,768.97	56.89	155.85	-90.00	-3,282.69	1,559.33	810.94	622.09	188.86	4.294		
9,500.00	7,806.97	7,768.97	7,768.97	58.32	155.85	-90.00	-3,282.69	1,559.33	734.06	542.77	191.28	3.838		
9,600.00	7,806.97	7,768.97	7,768.97	59.77	155.85	-90.00	-3,282.69	1,559.33	663.36	468.57	194.79	3.406		
9,700.00	7,806.97	7,768.97	7,768.97	61.23	155.85	-90.00	-3,282.69	1,559.33	601.05	401.53	199.52	3.012		
9,800.00	7,806.96	7,768.96	7,768.96	62.71	155.85	-90.00	-3,282.69	1,559.33	549.97	344.61	205.36	2.678		
9,900.00	7,806.96	7,768.96	7,768.96	64.21	155.85	-90.00	-3,282.69	1,559.33	513.50	301.71	211.79	2.425		
10,000.00	7,806.96	7,768.96	7,768.96	65.72	155.85	-90.00	-3,282.69	1,559.33	494.87	277.06	217.81	2.272		
10,043.94	7,806.96	7,768.96	7,768.96	66.39	155.85	-90.00	-3,282.69	1,559.33	492.91	272.90	220.02	2.240 CC, ES		
10,100.00	7,806.96	7,768.96	7,768.96	67.24	155.85	-90.00	-3,282.69	1,559.33	496.09	273.81	222.28	2.232 SF		
10,200.00	7,806.95	7,768.95	7,768.95	68.78	155.85	-90.00	-3,282.69	1,559.33	517.03	292.43	224.60	2.302		
10,300.00	7,806.95	7,768.95	7,768.95	70.32	155.85	-90.00	-3,282.69	1,559.33	555.46	330.52	224.93	2.469		
10,400.00	7,806.95	7,768.95	7,768.95	71.88	155.85	-90.00	-3,282.69	1,559.33	608.06	384.15	223.91	2.716		
10,500.00	7,806.95	7,768.95	7,768.95	73.45	155.85	-90.00	-3,282.69	1,559.33	671.53	449.33	222.20	3.022		
10,600.00	7,806.95	7,768.95	7,768.95	75.02	155.85	-90.00	-3,282.69	1,559.33	743.08	522.84	220.24	3.374		
10,700.00	7,806.94	7,768.94	7,768.94	76.61	155.85	-90.00	-3,282.69	1,559.33	820.60	602.30	218.29	3.759		
10,800.00	7,806.94	7,768.94	7,768.94	78.20	155.85	-90.00	-3,282.69	1,559.33	902.55	686.07	216.47	4.169		
10,900.00	7,806.94	7,768.94	7,768.94	79.80	155.85	-90.00	-3,282.69	1,559.33	987.83	773.00	214.83	4.598		
11,000.00	7,806.94	7,768.94	7,768.94	81.41	155.85	-90.00	-3,282.69	1,559.33	1,075.65	862.28	213.36	5.041		
11,100.00	7,806.93	7,768.93	7,768.93	83.02	155.85	-90.00	-3,282.69	1,559.33	1,165.43	953.36	212.07	5.495		
11,200.00	7,806.93	7,768.93	7,768.93	84.64	155.85	-90.00	-3,282.69	1,559.33	1,256.76	1,045.83	210.93	5.958		
11,300.00	7,806.93	7,768.93	7,768.93	86.27	155.85	-90.00	-3,282.69	1,559.33	1,349.31	1,139.39	209.92	6.428		
11,400.00	7,806.93	7,768.93	7,768.93	87.90	155.85	-90.00	-3,282.69	1,559.33	1,442.86	1,233.83	209.03	6.903		
11,500.00	7,806.92	7,768.92	7,768.92	89.54	155.85	-90.00	-3,282.69	1,559.33	1,537.23	1,328.99	208.24	7.382		
11,600.00	7,806.92	7,768.92	7,768.92	91.18	155.85	-90.00	-3,282.69	1,559.33	1,632.26	1,424.73	207.54	7.865		
11,700.00	7,806.92	7,768.92	7,768.92	92.83	155.84	-90.00	-3,282.69	1,559.33	1,727.86	1,520.95	206.91	8.351		
11,800.00	7,806.92	7,768.92	7,768.92	94.48	155.84	-90.00	-3,282.69	1,559.33	1,823.93	1,617.58	206.35	8.839		
11,900.00	7,806.91	7,768.91	7,768.91	96.14	155.84	-89.99	-3,282.69	1,559.33	1,920.40	1,714.55	205.84	9.329		
12,000.00	7,806.91	7,768.91	7,768.91	97.80	155.84	-89.99	-3,282.69	1,559.33	2,017.21	1,811.82	205.39	9.822		
12,100.00	7,806.91	7,768.91	7,768.91	99.46	155.84	-89.99	-3,282.69	1,559.33	2,114.32	1,909.34	204.97	10.315		
12,200.00	7,806.91	7,768.91	7,768.91	101.13	155.84	-89.99	-3,282.69	1,559.33	2,211.69	2,007.08	204.60	10.810		
12,300.00	7,806.90	7,768.90	7,768.90	102.80	155.84	-89.99	-3,282.69	1,559.33	2,309.28	2,105.02	204.26	11.305		
12,400.00	7,806.90	7,768.90	7,768.90	104.47	155.84	-89.99	-3,282.69	1,559.33	2,407.07	2,203.11	203.95	11.802		
12,500.00	7,806.90	7,768.90	7,768.90	106.15	155.84	-89.99	-3,282.69	1,559.33	2,505.03	2,301.36	203.67	12.299		
12,600.00	7,806.90	7,768.90	7,768.90	107.83	155.84	-89.99	-3,282.69	1,559.33	2,603.15	2,399.74	203.42	12.797		
12,700.00	7,806.89	7,768.89	7,768.89	109.52	155.84	-89.99	-3,282.69	1,559.33	2,701.41	2,498.23	203.18	13.296		
12,800.00	7,806.89	7,768.89	7,768.89	111.20	155.84	-89.99	-3,282.69	1,559.33	2,799.79	2,596.83	202.96	13.794		
12,900.00	7,806.89	7,768.89	7,768.89	112.89	155.84	-89.99	-3,282.69	1,559.33	2,898.28	2,695.51	202.77	14.294		
13,000.00	7,806.89	7,768.89	7,768.89	114.59	155.84	-89.99	-3,282.69	1,559.33	2,996.87	2,794.29	202.58	14.793		
13,100.00	7,806.88	7,768.88	7,768.88	116.28	155.84	-89.99	-3,282.69	1,559.33	3,095.55	2,893.14	202.42	15.293		
13,200.00	7,806.88	7,768.88	7,768.88	117.98	155.84	-89.99	-3,282.69	1,559.33	3,194.32	2,992.05	202.26	15.793		
13,300.00	7,806.88	7,768.88	7,768.88	119.68	155.84	-89.99	-3,282.69	1,559.33	3,293.16	3,091.03	202.12	16.293		
13,400.00	7,806.88	7,768.88	7,768.88	121.38	155.84	-89.99	-3,282.69	1,559.33	3,392.06	3,190.07	201.99	16.793		
13,500.00	7,806.88	7,768.88	7,768.88	123.08	155.84	-89.99	-3,282.69	1,559.33	3,491.03	3,289.16	201.88	17.293		
13,600.00	7,806.87	7,768.87	7,768.87	124.79	155.84	-89.99	-3,282.69	1,559.33	3,590.06	3,388.29	201.77	17.793		
13,700.00	7,806.87	7,768.87	7,768.87	126.49	155.84	-89.99	-3,282.69	1,559.33	3,689.14	3,487.47	201.66	18.293		
13,800.00	7,806.87	7,768.87	7,768.87	128.20	155.84	-89.99	-3,282.69	1,559.33	3,788.26	3,586.69	201.57	18.794		
13,900.00	7,806.87	7,768.87	7,768.87	129.91	155.84	-89.99	-3,282.69	1,559.33	3,887.44	3,685.95	201.49	19.294		
14,000.00	7,806.86	7,768.86	7,768.86	131.62	155.84	-89.99	-3,282.69	1,559.33	3,986.65	3,785.24	201.41	19.794		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,768.86	7,768.86	133.34	155.84	-89.99	-3,282.69	1,559.33	4,085.90	3,884.56	201.34	20.294		
14,200.00	7,806.86	7,768.86	7,768.86	135.05	155.84	-89.99	-3,282.69	1,559.33	4,185.19	3,983.91	201.27	20.793		
14,300.00	7,806.86	7,768.86	7,768.86	136.77	155.84	-89.99	-3,282.69	1,559.33	4,284.51	4,083.29	201.22	21.293		
14,400.00	7,806.85	7,768.85	7,768.85	138.49	155.84	-89.99	-3,282.69	1,559.33	4,383.86	4,182.69	201.16	21.793		
14,500.00	7,806.85	7,768.85	7,768.85	140.21	155.84	-89.99	-3,282.69	1,559.33	4,483.24	4,282.12	201.11	22.292		
14,600.00	7,806.85	7,768.85	7,768.85	141.93	155.84	-89.99	-3,282.69	1,559.33	4,582.64	4,381.57	201.07	22.791		
14,700.00	7,806.85	7,768.85	7,768.85	143.65	155.84	-89.99	-3,282.69	1,559.33	4,682.08	4,481.04	201.03	23.290		
14,800.00	7,806.84	7,768.84	7,768.84	145.37	155.84	-89.99	-3,282.69	1,559.33	4,781.53	4,580.53	201.00	23.789		
14,900.00	7,806.84	7,768.84	7,768.84	147.10	155.84	-89.99	-3,282.69	1,559.33	4,881.01	4,680.04	200.97	24.287		
15,000.00	7,806.84	7,768.84	7,768.84	148.83	155.84	-89.99	-3,282.69	1,559.33	4,980.51	4,779.57	200.94	24.786		
15,100.00	7,806.84	7,768.84	7,768.84	150.55	155.84	-89.99	-3,282.69	1,559.33	5,080.03	4,879.11	200.92	25.284		
15,200.00	7,806.83	7,768.83	7,768.83	152.28	155.84	-89.99	-3,282.69	1,559.33	5,179.57	4,978.66	200.90	25.782		
15,300.00	7,806.83	7,768.83	7,768.83	154.01	155.84	-89.99	-3,282.69	1,559.33	5,279.12	5,078.23	200.89	26.279		
15,400.00	7,806.83	7,768.83	7,768.83	155.74	155.84	-89.98	-3,282.69	1,559.33	5,378.69	5,177.82	200.87	26.776		
15,500.00	7,806.83	7,768.83	7,768.83	157.47	155.84	-89.98	-3,282.69	1,559.33	5,478.28	5,277.41	200.86	27.274		
15,600.00	7,806.82	7,768.82	7,768.82	159.20	155.84	-89.98	-3,282.69	1,559.33	5,577.88	5,377.02	200.86	27.770		
15,700.00	7,806.82	7,768.82	7,768.82	160.93	155.84	-89.98	-3,282.69	1,559.33	5,677.50	5,476.64	200.85	28.267		
15,800.00	7,806.82	7,768.82	7,768.82	162.67	155.84	-89.98	-3,282.69	1,559.33	5,777.13	5,576.27	200.85	28.763		
15,900.00	7,806.82	7,768.82	7,768.82	164.40	155.84	-89.98	-3,282.69	1,559.33	5,876.77	5,675.91	200.86	29.259		
16,000.00	7,806.81	7,768.81	7,768.81	166.14	155.84	-89.98	-3,282.69	1,559.33	5,976.42	5,775.56	200.86	29.754		
16,100.00	7,806.81	7,768.81	7,768.81	167.87	155.84	-89.98	-3,282.69	1,559.33	6,076.09	5,875.22	200.87	30.249		
16,200.00	7,806.81	7,768.81	7,768.81	169.61	155.84	-89.98	-3,282.69	1,559.33	6,175.76	5,974.89	200.87	30.744		
16,300.00	7,806.81	7,768.81	7,768.81	171.35	155.84	-89.98	-3,282.69	1,559.33	6,275.45	6,074.56	200.89	31.239		
16,400.00	7,806.81	7,768.81	7,768.81	173.09	155.84	-89.98	-3,282.69	1,559.33	6,375.14	6,174.24	200.90	31.733		
16,500.00	7,806.80	7,768.80	7,768.80	174.83	155.84	-89.98	-3,282.69	1,559.33	6,474.85	6,273.93	200.91	32.227		
16,600.00	7,806.80	7,768.80	7,768.80	176.57	155.84	-89.98	-3,282.69	1,559.33	6,574.56	6,373.63	200.93	32.721		
16,700.00	7,806.80	7,768.80	7,768.80	178.31	155.84	-89.98	-3,282.69	1,559.33	6,674.28	6,473.34	200.95	33.214		
16,800.00	7,806.80	7,768.80	7,768.80	180.05	155.84	-89.98	-3,282.69	1,559.33	6,774.02	6,573.05	200.97	33.707		
16,900.00	7,806.79	7,768.79	7,768.79	181.79	155.84	-89.98	-3,282.69	1,559.33	6,873.75	6,672.76	200.99	34.199		
17,000.00	7,806.79	7,768.79	7,768.79	183.53	155.84	-89.98	-3,282.69	1,559.33	6,973.50	6,772.48	201.02	34.691		
17,100.00	7,806.79	7,768.79	7,768.79	185.27	155.84	-89.98	-3,282.69	1,559.33	7,073.25	6,872.21	201.04	35.183		
17,200.00	7,806.79	7,768.79	7,768.79	187.02	155.84	-89.98	-3,282.69	1,559.33	7,173.01	6,971.94	201.07	35.674		
17,300.00	7,806.78	7,768.78	7,768.78	188.76	155.84	-89.98	-3,282.69	1,559.33	7,272.78	7,071.68	201.10	36.165		
17,400.00	7,806.78	7,768.78	7,768.78	190.51	155.84	-89.98	-3,282.69	1,559.33	7,372.55	7,171.42	201.13	36.656		
17,500.00	7,806.78	7,768.78	7,768.78	192.25	155.84	-89.98	-3,282.69	1,559.33	7,472.33	7,271.17	201.16	37.146		
17,600.00	7,806.78	7,768.78	7,768.78	194.00	155.84	-89.98	-3,282.69	1,559.33	7,572.12	7,370.92	201.20	37.636		
17,700.00	7,806.77	7,768.77	7,768.77	195.74	155.84	-89.98	-3,282.69	1,559.33	7,671.91	7,470.68	201.23	38.125		
17,800.00	7,806.77	7,768.77	7,768.77	197.49	155.84	-89.98	-3,282.69	1,559.33	7,771.71	7,570.44	201.27	38.614		
17,900.00	7,806.77	7,768.77	7,768.77	199.24	155.84	-89.98	-3,282.69	1,559.33	7,871.51	7,670.20	201.31	39.102		
17,973.82	7,807.00	7,769.00	7,769.00	200.53	155.85	-89.98	-3,282.69	1,559.33	7,945.19	7,743.85	201.34	39.461		
17,974.53	7,807.00	7,769.00	7,769.00	200.55	155.85	-89.98	-3,282.69	1,559.33	7,945.90	7,741.31	204.59	38.838		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	155.25	-3,285.60	1,514.80	3,618.03					
100.00	100.00	1,251.76	1,228.10	0.13	5.49	156.13	-3,137.01	1,388.05	3,617.09	3,611.74	5.35	676.677		
200.00	200.00	1,319.51	1,292.15	0.49	5.91	156.23	-3,119.76	1,374.26	3,585.55	3,579.79	5.75	623.192		
300.00	300.00	1,391.91	1,360.94	0.85	6.37	156.32	-3,101.79	1,360.62	3,555.09	3,548.80	6.29	565.587		
400.00	400.00	1,548.12	1,508.81	1.21	7.36	156.53	-3,062.17	1,329.57	3,523.72	3,516.48	7.24	486.626		
500.00	500.00	1,715.32	1,665.82	1.57	8.48	156.78	-3,016.73	1,294.39	3,489.98	3,481.70	8.27	421.876		
600.00	600.00	1,783.16	1,729.49	1.93	8.93	156.87	-2,997.86	1,280.56	3,456.30	3,447.42	8.88	389.098		
700.00	700.00	1,843.97	1,786.79	2.29	9.34	156.95	-2,981.43	1,268.47	3,423.55	3,414.08	9.48	361.292		
800.00	800.00	1,910.94	1,850.05	2.64	9.78	157.05	-2,963.95	1,255.13	3,391.64	3,381.54	10.10	335.667		
900.00	900.00	2,001.44	1,935.61	3.00	10.37	157.20	-2,941.14	1,236.48	3,360.27	3,349.43	10.84	309.967		
1,000.00	1,000.00	2,060.77	1,991.70	3.36	10.76	157.31	-2,926.63	1,223.71	3,329.28	3,317.83	11.45	290.654		
1,100.00	1,100.00	2,116.00	2,044.12	3.72	11.12	157.42	-2,914.00	1,211.75	3,299.60	3,287.55	12.06	273.672		
1,200.00	1,199.98	2,258.98	2,179.74	4.06	12.05	24.84	-2,881.69	1,180.03	3,268.68	3,255.65	13.03	250.906		
1,300.00	1,299.84	2,351.92	2,267.57	4.40	12.67	25.39	-2,859.12	1,159.69	3,233.27	3,219.49	13.78	234.624		
1,400.00	1,399.45	2,420.13	2,332.27	4.74	13.11	25.94	-2,842.94	1,145.38	3,195.79	3,181.36	14.43	221.429		
1,500.00	1,498.70	2,509.09	2,416.67	5.09	13.69	26.61	-2,822.07	1,126.53	3,155.68	3,140.51	15.17	207.981		
1,600.00	1,597.47	2,579.26	2,483.34	5.46	14.15	27.30	-2,805.77	1,111.94	3,113.16	3,097.32	15.84	196.531		
1,700.00	1,695.62	2,701.18	2,599.07	5.85	14.94	28.28	-2,776.80	1,086.79	3,067.47	3,050.75	16.72	183.460		
1,800.00	1,793.06	2,762.86	2,657.61	6.27	15.34	29.10	-2,762.19	1,073.99	3,019.28	3,001.91	17.37	173.844		
1,867.07	1,857.94	2,805.68	2,698.33	6.57	15.61	29.71	-2,752.27	1,065.24	2,985.90	2,968.09	17.81	167.624		
1,900.00	1,889.69	2,826.94	2,718.59	6.72	15.75	29.82	-2,747.37	1,061.02	2,969.33	2,951.30	18.03	164.658		
2,000.00	1,986.13	2,897.96	2,786.36	7.19	16.19	30.20	-2,731.06	1,047.48	2,919.45	2,900.73	18.72	155.945		
2,100.00	2,082.57	2,980.19	2,864.97	7.68	16.70	30.63	-2,712.04	1,032.60	2,869.89	2,850.43	19.46	147.496		
2,200.00	2,179.00	3,067.45	2,948.39	8.18	17.24	31.10	-2,691.79	1,016.92	2,820.45	2,800.22	20.22	139.471		
2,300.00	2,275.44	3,156.76	3,033.64	8.69	17.80	31.63	-2,671.41	999.78	2,771.11	2,750.09	21.01	131.870		
2,400.00	2,371.88	3,283.06	3,153.61	9.21	18.62	32.44	-2,641.78	973.69	2,720.89	2,698.93	21.96	123.886		
2,500.00	2,468.31	3,371.25	3,237.20	9.74	19.20	33.04	-2,620.58	955.25	2,670.40	2,647.62	22.79	117.198		
2,600.00	2,564.75	3,449.50	3,311.37	10.28	19.71	33.58	-2,601.62	939.05	2,620.05	2,596.46	23.58	111.093		
2,700.00	2,661.19	3,512.11	3,370.81	10.82	20.12	34.03	-2,586.83	926.06	2,570.41	2,546.07	24.34	105.591		
2,800.00	2,757.62	3,630.37	3,483.04	11.37	20.89	34.90	-2,558.47	901.92	2,520.79	2,495.49	25.30	99.631		
2,900.00	2,854.06	3,714.45	3,562.71	11.92	21.44	35.54	-2,537.66	884.86	2,470.82	2,444.66	26.16	94.465		
3,000.00	2,950.50	3,813.44	3,656.31	12.47	22.10	36.34	-2,512.99	864.15	2,420.79	2,393.71	27.08	89.401		
3,100.00	3,046.93	3,859.48	3,699.93	13.03	22.40	36.72	-2,501.78	854.61	2,371.50	2,343.65	27.85	85.166		
3,200.00	3,143.37	3,922.27	3,759.68	13.59	22.81	37.25	-2,487.14	842.03	2,323.55	2,294.87	28.68	81.012		
3,300.00	3,239.81	4,009.77	3,842.87	14.15	23.38	38.03	-2,466.99	823.89	2,276.04	2,246.43	29.62	76.851		
3,400.00	3,336.24	4,089.41	3,918.55	14.72	23.89	38.78	-2,448.77	807.08	2,228.93	2,198.38	30.55	72.962		
3,500.00	3,432.68	4,178.24	4,002.96	15.28	24.47	39.64	-2,428.39	788.35	2,182.15	2,150.62	31.53	69.207		
3,600.00	3,529.12	4,262.43	4,082.96	15.85	25.01	40.49	-2,408.92	770.77	2,135.65	2,103.14	32.52	65.682		
3,700.00	3,625.55	4,333.82	4,150.92	16.42	25.47	41.21	-2,392.47	756.36	2,089.77	2,056.30	33.47	62.432		
3,800.00	3,721.99	4,409.29	4,222.97	16.99	25.95	41.99	-2,375.38	741.78	2,044.80	2,010.34	34.46	59.339		
3,900.00	3,818.43	4,497.89	4,307.43	17.56	26.51	42.97	-2,355.67	723.72	2,000.45	1,964.94	35.52	56.326		
4,000.00	3,914.86	4,589.33	4,394.48	18.14	27.09	44.03	-2,334.78	705.04	1,956.08	1,919.47	36.61	53.433		
4,100.00	4,011.30	4,674.81	4,475.80	18.71	27.64	45.06	-2,315.37	687.28	1,912.32	1,874.60	37.71	50.707		
4,200.00	4,107.74	4,804.04	4,598.26	19.29	28.50	46.72	-2,284.54	659.82	1,868.20	1,829.22	38.97	47.934		
4,300.00	4,204.17	4,882.10	4,671.81	19.86	29.03	47.79	-2,264.67	642.81	1,823.23	1,783.10	40.13	45.431		
4,400.00	4,300.61	4,949.33	4,735.51	20.44	29.47	48.72	-2,248.20	628.99	1,779.83	1,738.55	41.28	43.114		
4,500.00	4,397.05	5,042.87	4,824.25	21.02	30.09	50.04	-2,225.35	610.22	1,737.27	1,694.75	42.52	40.858		
4,600.00	4,493.48	5,155.65	4,930.66	21.59	30.85	51.76	-2,196.28	586.77	1,694.22	1,650.38	43.85	38.640		
4,700.00	4,589.92	5,242.50	5,012.31	22.17	31.45	53.15	-2,172.99	568.50	1,651.14	1,605.98	45.16	36.562		
4,800.00	4,686.36	5,314.55	5,080.02	22.75	31.95	54.37	-2,153.88	552.96	1,609.23	1,562.74	46.49	34.616		
4,900.00	4,782.79	5,382.56	5,144.09	23.33	32.41	55.56	-2,136.35	538.36	1,568.95	1,521.11	47.84	32.792		
5,000.00	4,879.23	5,471.82	5,228.28	23.91	33.02	57.17	-2,113.61	519.28	1,530.01	1,480.72	49.29	31.040		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	4,975.67	5,550.66	5,302.53	24.49	33.56	58.67	-2,093.29	502.34	1,491.97	1,441.21	50.75	29.396		
5,200.00	5,072.10	5,628.32	5,375.93	25.07	34.08	60.16	-2,073.61	486.31	1,455.47	1,403.23	52.24	27.861		
5,300.00	5,168.54	5,708.43	5,451.80	25.66	34.62	61.75	-2,053.55	470.17	1,420.47	1,366.71	53.76	26.422		
5,400.00	5,264.98	5,790.89	5,529.59	26.24	35.17	63.49	-2,032.83	452.36	1,386.98	1,331.63	55.35	25.059		
5,500.00	5,361.41	5,876.94	5,610.66	26.82	35.76	65.39	-2,010.95	433.56	1,354.83	1,297.84	56.99	23.773		
5,600.00	5,457.85	5,952.09	5,681.69	27.40	36.27	67.07	-1,992.14	417.82	1,324.52	1,265.91	58.61	22.599		
5,700.00	5,554.29	6,019.79	5,745.93	27.99	36.71	68.61	-1,975.84	403.97	1,296.63	1,236.42	60.21	21.536		
5,800.00	5,650.72	6,094.76	5,817.28	28.57	37.19	70.35	-1,958.66	388.67	1,271.44	1,209.62	61.82	20.565		
5,900.00	5,747.16	6,172.50	5,891.63	29.15	37.67	72.15	-1,941.47	373.84	1,248.41	1,184.98	63.43	19.682		
6,000.00	5,843.60	6,245.11	5,961.22	29.74	38.12	73.86	-1,926.11	359.92	1,228.05	1,163.06	64.99	18.895		
6,100.00	5,940.03	6,339.31	6,051.96	30.32	38.67	76.05	-1,906.97	343.40	1,209.69	1,143.10	66.59	18.166		
6,200.00	6,036.47	6,425.21	6,135.13	30.90	39.14	78.02	-1,890.10	330.13	1,192.94	1,124.84	68.09	17.520		
6,300.00	6,132.91	6,505.87	6,213.42	31.49	39.57	79.87	-1,874.78	318.20	1,178.24	1,108.71	69.53	16.945		
6,400.00	6,229.34	6,577.86	6,283.48	32.07	39.95	81.53	-1,861.94	307.71	1,166.16	1,095.27	70.88	16.452		
6,500.00	6,325.78	6,652.41	6,356.35	32.66	40.32	83.20	-1,850.21	297.30	1,157.12	1,084.95	72.16	16.035		
6,552.14	6,376.06	6,693.33	6,396.49	32.96	40.51	84.10	-1,844.36	291.88	1,153.46	1,080.65	72.81	15.843		
6,600.00	6,422.32	6,736.08	6,438.50	33.24	40.71	84.96	-1,838.59	286.44	1,150.68	1,077.28	73.40	15.678		
6,700.00	6,519.60	6,835.19	6,535.99	33.78	41.15	86.84	-1,825.35	274.48	1,145.91	1,071.34	74.58	15.366		
6,800.00	6,617.63	6,937.18	6,636.65	34.27	41.58	88.55	-1,812.36	264.43	1,141.70	1,066.07	75.63	15.095		
6,900.00	6,716.28	7,025.10	6,723.57	34.72	41.94	89.84	-1,801.74	256.61	1,138.43	1,061.89	76.54	14.875		
7,000.00	6,815.45	7,105.80	6,803.47	35.13	42.26	90.89	-1,793.18	249.22	1,137.07	1,059.76	77.31	14.708		
7,029.44	6,844.72	7,130.62	6,828.09	35.24	42.35	91.18	-1,790.89	247.00	1,137.00	1,059.48	77.52	14.667		
7,100.00	6,915.00	7,191.92	6,888.98	35.49	42.57	91.82	-1,786.01	241.85	1,137.34	1,059.33	78.01	14.580		
7,200.00	7,014.82	7,285.08	6,981.73	35.81	42.88	92.55	-1,780.49	235.20	1,138.49	1,059.85	78.64	14.477		
7,300.00	7,114.79	7,375.20	7,071.63	36.09	43.14	93.00	-1,777.15	229.97	1,140.22	1,061.05	79.17	14.402		
7,319.21	7,134.00	7,390.51	7,086.91	36.14	43.18	-133.76	-1,776.77	229.12	1,140.66	1,061.41	79.25	14.392		
7,400.00	7,214.79	7,454.90	7,151.18	36.33	43.36	-133.60	-1,775.75	225.32	1,143.23	1,063.65	79.58	14.366		
7,419.21	7,234.00	7,477.66	7,173.90	36.37	43.41	-133.54	-1,775.57	223.97	1,143.96	1,064.27	79.69	14.355		
7,450.00	7,264.77	7,516.06	7,212.25	36.46	43.51	46.88	-1,775.37	222.05	1,144.40	1,064.51	79.89	14.325		
7,500.00	7,314.52	7,579.85	7,276.00	36.62	43.66	47.35	-1,775.21	219.83	1,142.26	1,062.03	80.23	14.237		
7,550.00	7,363.66	7,644.86	7,341.00	36.81	43.81	48.29	-1,774.74	218.49	1,136.55	1,055.95	80.60	14.102		
7,600.00	7,411.80	7,694.64	7,390.77	37.03	43.93	49.52	-1,774.27	217.90	1,127.66	1,046.73	80.93	13.933		
7,650.00	7,458.60	7,743.03	7,439.16	37.29	44.04	51.15	-1,773.93	217.52	1,116.06	1,034.76	81.30	13.728		
7,700.00	7,503.68	7,787.49	7,483.62	37.57	44.13	53.14	-1,773.71	217.27	1,102.01	1,020.34	81.67	13.494		
7,750.00	7,546.72	7,830.19	7,526.32	37.89	44.22	55.52	-1,773.56	217.09	1,085.77	1,003.72	82.05	13.233		
7,800.00	7,587.37	7,870.61	7,566.73	38.23	44.31	58.28	-1,773.48	216.95	1,067.65	985.21	82.44	12.950		
7,850.00	7,625.34	7,908.43	7,604.56	38.59	44.39	61.39	-1,773.47	216.87	1,047.98	965.14	82.83	12.652		
7,900.00	7,660.33	7,943.86	7,639.98	38.99	44.46	64.81	-1,773.51	216.82	1,027.11	943.89	83.22	12.343		
7,950.00	7,692.07	7,976.50	7,672.63	39.40	44.53	68.46	-1,773.57	216.82	1,005.44	921.87	83.58	12.030		
8,000.00	7,720.33	8,005.63	7,701.76	39.85	44.59	72.21	-1,773.64	216.87	983.42	899.52	83.90	11.721		
8,050.00	7,744.88	8,031.02	7,727.15	40.31	44.64	75.94	-1,773.71	216.94	961.51	877.33	84.18	11.422		
8,100.00	7,765.55	8,052.46	7,748.58	40.79	44.68	79.51	-1,773.79	217.02	940.21	855.81	84.39	11.141		
8,150.00	7,782.18	8,069.78	7,765.90	41.30	44.72	82.78	-1,773.86	217.11	919.98	835.46	84.52	10.885		
8,200.00	7,794.63	8,082.84	7,778.96	41.81	44.74	85.63	-1,773.92	217.18	901.31	816.77	84.54	10.661		
8,250.00	7,802.82	8,091.52	7,787.65	42.34	44.76	87.98	-1,773.95	217.23	884.62	800.18	84.44	10.476		
8,300.00	7,806.68	8,095.75	7,791.88	42.88	44.77	89.77	-1,773.97	217.26	870.28	786.08	84.21	10.335		
8,319.29	7,807.00	8,096.18	7,792.31	43.09	44.77	90.29	-1,773.98	217.26	865.45	781.37	84.08	10.294		
8,400.00	7,807.00	8,096.58	7,792.70	43.98	44.77	90.32	-1,773.98	217.26	849.68	766.36	83.32	10.198 SF		
8,500.00	7,807.00	8,097.07	7,793.20	45.12	44.77	90.35	-1,773.98	217.26	840.54	758.61	81.93	10.259 ES		
8,527.22	7,807.00	8,097.21	7,793.33	45.44	44.77	90.36	-1,773.98	217.26	840.10	758.63	81.47	10.312 CC		
8,600.00	7,806.99	8,097.57	7,793.69	46.31	44.77	90.39	-1,773.98	217.27	843.25	763.15	80.10	10.528		
8,700.00	7,806.99	8,098.06	7,794.19	47.53	44.77	90.42	-1,773.99	217.27	857.68	779.71	77.97	11.000		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 33-T1N-R68W - GRAEBER 31-33D - Wellbore #1 - Wellbore #1		Offset Site Error: 0.00 usft	
Survey Program: 16-MWD															Offset Well Error: 0.00 usft	
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
8,800.00	7,806.99	8,098.56	7,794.69	48.78	44.77	90.46	-1,773.99	217.27	883.28	807.55	75.73	11.663				
8,900.00	7,806.99	8,099.06	7,795.19	50.07	44.77	90.49	-1,773.99	217.28	919.09	845.54	73.55	12.495				
9,000.00	7,806.98	8,099.57	7,795.69	51.38	44.78	90.52	-1,773.99	217.28	964.00	892.42	71.57	13.468				
9,100.00	7,806.98	8,100.07	7,796.20	52.72	44.78	90.56	-1,774.00	217.28	1,016.78	946.92	69.86	14.554				
9,200.00	7,806.98	8,100.58	7,796.71	54.09	44.78	90.59	-1,774.00	217.29	1,076.29	1,007.84	68.45	15.724				
9,300.00	7,806.98	8,101.09	7,797.22	55.48	44.78	90.63	-1,774.00	217.29	1,141.47	1,074.16	67.31	16.958				
9,400.00	7,806.97	8,101.61	7,797.73	56.89	44.78	90.66	-1,774.00	217.29	1,211.41	1,144.98	66.42	18.238				
9,500.00	7,806.97	8,102.12	7,798.25	58.32	44.78	90.70	-1,774.00	217.30	1,285.32	1,219.58	65.74	19.550				
9,600.00	7,806.97	8,102.64	7,798.76	59.77	44.78	90.73	-1,774.01	217.30	1,362.57	1,297.34	65.23	20.887				
9,700.00	7,806.97	8,103.16	7,799.28	61.23	44.78	90.77	-1,774.01	217.30	1,442.62	1,377.76	64.86	22.242				
9,800.00	7,806.96	8,103.68	7,799.81	62.71	44.78	90.81	-1,774.01	217.31	1,525.03	1,460.43	64.59	23.609				
9,900.00	7,806.96	8,104.21	7,800.33	64.21	44.79	90.84	-1,774.02	217.31	1,609.43	1,545.02	64.41	24.986				
10,000.00	7,806.96	8,104.73	7,800.86	65.72	44.79	90.88	-1,774.02	217.31	1,695.53	1,631.23	64.29	26.371				
10,100.00	7,806.96	8,105.26	7,801.39	67.24	44.79	90.91	-1,774.02	217.32	1,783.08	1,718.85	64.23	27.762				
10,200.00	7,806.95	8,105.80	7,801.92	68.78	44.79	90.95	-1,774.02	217.32	1,871.87	1,807.67	64.20	29.157				
10,300.00	7,806.95	8,106.33	7,802.46	70.32	44.79	90.99	-1,774.03	217.32	1,961.75	1,897.54	64.20	30.555				
10,400.00	7,806.95	8,106.87	7,802.99	71.88	44.79	91.02	-1,774.03	217.33	2,052.56	1,988.33	64.23	31.956				
10,500.00	7,806.95	8,107.41	7,803.54	73.45	44.79	91.06	-1,774.03	217.33	2,144.19	2,079.92	64.28	33.360				
10,600.00	7,806.95	8,107.95	7,804.08	75.02	44.79	91.10	-1,774.03	217.34	2,236.54	2,172.20	64.33	34.764				
10,700.00	7,806.94	8,108.50	7,804.62	76.61	44.79	91.13	-1,774.04	217.34	2,329.52	2,265.11	64.40	36.170				
10,800.00	7,806.94	8,109.05	7,805.17	78.20	44.79	91.17	-1,774.04	217.34	2,423.05	2,358.57	64.48	37.577				
10,900.00	7,806.94	8,109.60	7,805.72	79.80	44.80	91.21	-1,774.04	217.35	2,517.09	2,452.52	64.57	38.984				
11,000.00	7,806.94	8,110.15	7,806.27	81.41	44.80	91.25	-1,774.04	217.35	2,611.57	2,546.91	64.66	40.391				
11,100.00	7,806.93	8,110.71	7,806.83	83.02	44.80	91.28	-1,774.05	217.35	2,706.44	2,641.69	64.75	41.798				
11,200.00	7,806.93	8,111.26	7,807.39	84.64	44.80	91.32	-1,774.05	217.36	2,801.67	2,736.83	64.85	43.205				
11,300.00	7,806.93	8,111.83	7,807.95	86.27	44.80	91.36	-1,774.05	217.36	2,897.22	2,832.28	64.94	44.611				
11,400.00	7,806.93	8,112.39	7,808.51	87.90	44.80	91.40	-1,774.06	217.37	2,993.07	2,928.02	65.04	46.016				
11,500.00	7,806.92	8,112.96	7,809.08	89.54	44.80	91.44	-1,774.06	217.37	3,089.17	3,024.03	65.14	47.421				
11,600.00	7,806.92	8,113.53	7,809.65	91.18	44.80	91.48	-1,774.06	217.37	3,185.52	3,120.27	65.24	48.824				
11,700.00	7,806.92	8,114.10	7,810.22	92.83	44.81	91.52	-1,774.06	217.38	3,282.08	3,216.74	65.35	50.226				
11,800.00	7,806.92	8,114.67	7,810.80	94.48	44.81	91.55	-1,774.07	217.38	3,378.85	3,313.40	65.45	51.627				
11,900.00	7,806.91	8,115.25	7,811.37	96.14	44.81	91.59	-1,774.07	217.39	3,475.80	3,410.25	65.55	53.026				
12,000.00	7,806.91	8,115.83	7,811.96	97.80	44.81	91.63	-1,774.07	217.39	3,572.91	3,507.26	65.65	54.424				
12,100.00	7,806.91	8,116.41	7,812.54	99.46	44.81	91.67	-1,774.08	217.40	3,670.18	3,604.43	65.75	55.820				
12,200.00	7,806.91	8,117.00	7,813.12	101.13	44.81	91.71	-1,774.08	217.40	3,767.59	3,701.74	65.85	57.214				
12,300.00	7,806.90	8,117.59	7,813.71	102.80	44.81	91.75	-1,774.08	217.40	3,865.14	3,799.19	65.95	58.606				
12,400.00	7,806.90	8,118.18	7,814.31	104.47	44.81	91.79	-1,774.09	217.41	3,962.81	3,896.76	66.05	59.996				
12,500.00	7,806.90	8,118.78	7,814.90	106.15	44.81	91.83	-1,774.09	217.41	4,060.59	3,994.44	66.15	61.384				
12,600.00	7,806.90	8,119.37	7,815.50	107.83	44.82	91.88	-1,774.09	217.42	4,158.47	4,092.23	66.25	62.770				
12,700.00	7,806.89	8,119.98	7,816.10	109.52	44.82	91.92	-1,774.09	217.42	4,256.46	4,190.11	66.35	64.153				
12,800.00	7,806.89	8,120.58	7,816.70	111.20	44.82	91.96	-1,774.10	217.43	4,354.54	4,288.09	66.45	65.535				
12,900.00	7,806.89	8,121.19	7,817.31	112.89	44.82	92.00	-1,774.10	217.43	4,452.70	4,386.15	66.54	66.913				
13,000.00	7,806.89	8,121.80	7,817.92	114.59	44.82	92.04	-1,774.10	217.44	4,550.94	4,484.30	66.64	68.290				
13,100.00	7,806.88	8,122.41	7,818.53	116.28	44.82	92.08	-1,774.11	217.44	4,649.26	4,582.52	66.74	69.663				
13,200.00	7,806.88	8,123.03	7,819.15	117.98	44.82	92.12	-1,774.11	217.44	4,747.64	4,680.81	66.84	71.034				
13,300.00	7,806.88	8,123.65	7,819.77	119.68	44.82	92.17	-1,774.11	217.45	4,846.10	4,779.16	66.93	72.403				
13,400.00	7,806.88	8,124.27	7,820.39	121.38	44.83	92.21	-1,774.12	217.45	4,944.61	4,877.58	67.03	73.769				
13,500.00	7,806.88	8,124.89	7,821.02	123.08	44.83	92.25	-1,774.12	217.46	5,043.18	4,976.06	67.12	75.132				
13,600.00	7,806.87	8,125.52	7,821.65	124.79	44.83	92.29	-1,774.12	217.46	5,141.81	5,074.59	67.22	76.492				
13,700.00	7,806.87	8,126.16	7,822.28	126.49	44.83	92.34	-1,774.13	217.47	5,240.49	5,173.18	67.32	77.849				
13,800.00	7,806.87	8,126.79	7,822.91	128.20	44.83	92.38	-1,774.13	217.47	5,339.22	5,271.81	67.41	79.203				
13,900.00	7,806.87	8,127.43	7,823.55	129.91	44.83	92.42	-1,774.13	217.48	5,438.00	5,370.49	67.51	80.554				

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 33-T1N-R68W - GRAEBER 31-33D - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 16-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	7,806.86	8,128.07	7,824.20	131.62	44.83	92.47	-1,774.14	217.48	5,536.82	5,469.21	67.60	81.903	
14,100.00	7,806.86	8,128.72	7,824.84	133.34	44.83	92.51	-1,774.14	217.49	5,635.68	5,567.98	67.70	83.248	
14,200.00	7,806.86	8,129.37	7,825.49	135.05	44.84	92.56	-1,774.14	217.49	5,734.58	5,666.79	67.79	84.590	
14,300.00	7,806.86	8,130.02	7,826.14	136.77	44.84	92.60	-1,774.15	217.50	5,833.52	5,765.63	67.89	85.929	
14,400.00	7,806.85	8,130.67	7,826.80	138.49	44.84	92.65	-1,774.15	217.50	5,932.49	5,864.51	67.98	87.265	
14,500.00	7,806.85	8,131.33	7,827.46	140.21	44.84	92.69	-1,774.16	217.51	6,031.50	5,963.42	68.08	88.597	
14,600.00	7,806.85	8,131.99	7,828.12	141.93	44.84	92.74	-1,774.16	217.51	6,130.54	6,062.36	68.17	89.927	
14,700.00	7,806.85	8,132.66	7,828.78	143.65	44.84	92.78	-1,774.16	217.52	6,229.61	6,161.34	68.27	91.252	
14,800.00	7,806.84	8,133.33	7,829.45	145.37	44.84	92.83	-1,774.17	217.52	6,328.71	6,260.34	68.36	92.575	
14,900.00	7,806.84	8,134.00	7,830.13	147.10	44.85	92.87	-1,774.17	217.53	6,427.83	6,359.37	68.46	93.894	
15,000.00	7,806.84	8,134.68	7,830.80	148.83	44.85	92.92	-1,774.17	217.54	6,526.99	6,458.43	68.55	95.210	
15,100.00	7,806.84	8,135.36	7,831.48	150.55	44.85	92.96	-1,774.18	217.54	6,626.17	6,557.52	68.65	96.523	
15,200.00	7,806.83	8,136.04	7,832.17	152.28	44.85	93.01	-1,774.18	217.55	6,725.37	6,656.62	68.74	97.832	
15,300.00	7,806.83	8,136.73	7,832.85	154.01	44.85	93.06	-1,774.19	217.55	6,824.60	6,755.76	68.84	99.137	
15,400.00	7,806.83	8,137.42	7,833.54	155.74	44.85	93.10	-1,774.19	217.56	6,923.84	6,854.91	68.94	100.439	
15,500.00	7,806.83	8,138.11	7,834.24	157.47	44.85	93.15	-1,774.19	217.56	7,023.11	6,954.08	69.03	101.738	
15,600.00	7,806.82	8,138.81	7,834.94	159.20	44.86	93.20	-1,774.20	217.57	7,122.40	7,053.28	69.13	103.032	
15,700.00	7,806.82	8,139.52	7,835.64	160.93	44.86	93.25	-1,774.20	217.58	7,221.71	7,152.49	69.22	104.324	
15,800.00	7,806.82	8,140.22	7,836.34	162.67	44.86	93.30	-1,774.21	217.58	7,321.04	7,251.72	69.32	105.611	
15,900.00	7,806.82	8,140.93	7,837.05	164.40	44.86	93.34	-1,774.21	217.59	7,420.39	7,350.97	69.42	106.895	
16,000.00	7,806.81	8,141.64	7,837.77	166.14	44.86	93.39	-1,774.21	217.59	7,519.75	7,450.24	69.51	108.176	
16,100.00	7,806.81	8,142.36	7,838.49	167.87	44.86	93.44	-1,774.22	217.60	7,619.13	7,549.52	69.61	109.453	
16,200.00	7,806.81	8,143.08	7,839.21	169.61	44.86	93.49	-1,774.22	217.61	7,718.53	7,648.82	69.71	110.726	
16,300.00	7,806.81	8,143.81	7,839.93	171.35	44.87	93.54	-1,774.23	217.61	7,817.94	7,748.14	69.81	111.995	
16,400.00	7,806.81	8,144.54	7,840.66	173.09	44.87	93.59	-1,774.23	217.62	7,917.37	7,847.47	69.90	113.261	
16,500.00	7,806.80	8,145.27	7,841.39	174.83	44.87	93.64	-1,774.23	217.62	8,016.81	7,946.81	70.00	114.522	
16,600.00	7,806.80	8,146.01	7,842.13	176.57	44.87	93.69	-1,774.24	217.63	8,116.26	8,046.16	70.10	115.780	
16,700.00	7,806.80	8,146.75	7,842.87	178.31	44.87	93.74	-1,774.24	217.64	8,215.73	8,145.53	70.20	117.035	
16,800.00	7,806.80	8,147.50	7,843.62	180.05	44.87	93.79	-1,774.25	217.64	8,315.21	8,244.91	70.30	118.285	
16,900.00	7,806.79	8,148.25	7,844.37	181.79	44.87	93.84	-1,774.25	217.65	8,414.70	8,344.31	70.40	119.532	
17,000.00	7,806.79	8,149.00	7,845.12	183.53	44.88	93.89	-1,774.26	217.66	8,514.21	8,443.71	70.50	120.775	
17,100.00	7,806.79	8,149.76	7,845.88	185.27	44.88	93.94	-1,774.26	217.66	8,613.73	8,543.13	70.60	122.014	
17,200.00	7,806.79	8,150.52	7,846.64	187.02	44.88	94.00	-1,774.26	217.67	8,713.25	8,642.56	70.70	123.249	
17,300.00	7,806.78	8,151.29	7,847.41	188.76	44.88	94.05	-1,774.27	217.68	8,812.79	8,741.99	70.80	124.480	
17,400.00	7,806.78	8,150.10	7,836.22	190.51	44.86	93.29	-1,774.19	217.56	8,912.36	8,841.51	70.85	125.801	
17,500.00	7,806.78	8,150.53	7,836.65	192.25	44.86	93.32	-1,774.19	217.56	9,011.92	8,940.97	70.94	127.027	
17,600.00	7,806.78	8,150.96	7,837.08	194.00	44.86	93.35	-1,774.20	217.57	9,111.48	9,040.44	71.04	128.250	
17,700.00	7,806.77	5,489.00	5,244.44	195.74	33.14	12.07	-2,109.17	515.55	9,210.64	9,148.61	62.03	148.484	
17,800.00	7,806.77	5,459.41	5,216.58	197.49	32.94	11.81	-2,116.81	521.96	9,306.52	9,244.44	62.09	149.894	
17,900.00	7,806.77	5,445.53	5,203.50	199.24	32.84	11.68	-2,120.37	524.95	9,402.48	9,340.30	62.18	151.219	
17,973.82	7,807.00	5,435.49	5,194.04	200.53	32.78	11.59	-2,122.94	527.10	9,473.40	9,411.15	62.25	152.192	
17,974.53	7,807.00	5,435.39	5,193.95	200.55	32.77	11.59	-2,122.96	527.12	9,474.08	9,409.34	64.74	146.339	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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				
0.00	0.00	20.00	-20.00	0.00	0.04	154.20	-3,285.23	1,588.19	3,648.98							
100.00	100.00	80.00	80.00	0.13	0.14	154.20	-3,285.23	1,588.19	3,648.98	3,648.71	0.28	N/A				
200.00	200.00	180.00	180.00	0.49	0.32	154.20	-3,285.23	1,588.19	3,648.98	3,648.17	0.81	4,498.135				
300.00	300.00	280.00	280.00	0.85	0.50	154.20	-3,285.23	1,588.19	3,648.98	3,647.64	1.35	2,709.898				
400.00	400.00	380.00	380.00	1.21	0.67	154.20	-3,285.23	1,588.19	3,648.98	3,647.10	1.88	1,939.034				
500.00	500.00	480.00	480.00	1.57	0.85	154.20	-3,285.23	1,588.19	3,648.98	3,646.57	2.42	1,509.607				
600.00	600.00	580.00	580.00	1.93	1.03	154.20	-3,285.23	1,588.19	3,648.98	3,646.03	2.95	1,235.900				
700.00	700.00	680.00	680.00	2.29	1.20	154.20	-3,285.23	1,588.19	3,648.98	3,645.49	3.49	1,046.211				
800.00	800.00	780.00	780.00	2.64	1.38	154.20	-3,285.23	1,588.19	3,648.98	3,644.96	4.02	907.002				
900.00	900.00	880.00	880.00	3.00	1.56	154.20	-3,285.23	1,588.19	3,648.98	3,644.42	4.56	800.489				
1,000.00	1,000.00	980.00	980.00	3.36	1.73	154.20	-3,285.23	1,588.19	3,648.98	3,643.89	5.09	716.363				
1,100.00	1,100.00	1,080.00	1,080.00	3.72	1.91	154.20	-3,285.23	1,588.19	3,648.98	3,643.35	5.63	648.238				
1,200.00	1,199.98	1,179.98	1,179.98	4.06	2.09	21.03	-3,285.23	1,588.19	3,647.35	3,641.20	6.15	593.082				
1,300.00	1,299.84	1,279.84	1,279.84	4.40	2.26	21.10	-3,285.23	1,588.19	3,642.47	3,635.81	6.66	546.876				
1,400.00	1,399.45	1,283.71	1,283.70	4.74	2.43	21.16	-3,286.45	1,588.19	3,636.70	3,629.54	7.16	508.124				
1,500.00	1,498.70	1,330.14	1,330.09	5.09	2.59	21.26	-3,288.19	1,588.19	3,628.68	3,621.01	7.66	473.410				
1,600.00	1,597.47	1,376.46	1,376.35	5.46	2.76	21.39	-3,290.66	1,588.19	3,618.88	3,610.71	8.18	442.607				
1,700.00	1,695.62	1,450.00	1,449.68	5.85	3.03	21.60	-3,296.13	1,588.19	3,607.54	3,598.75	8.79	410.344				
1,800.00	1,793.06	1,483.90	1,483.45	6.27	3.17	21.77	-3,299.20	1,588.02	3,593.92	3,584.64	9.28	387.157				
1,867.07	1,857.94	1,539.43	1,538.69	6.57	3.41	21.99	-3,304.68	1,587.03	3,583.51	3,573.76	9.75	367.364				
1,900.00	1,889.69	1,566.52	1,565.61	6.72	3.53	22.06	-3,307.57	1,586.22	3,578.13	3,568.14	9.99	358.259				
2,000.00	1,986.13	1,648.29	1,646.74	7.19	3.88	22.32	-3,317.13	1,582.50	3,562.10	3,551.41	10.70	333.012				
2,100.00	2,082.57	1,729.23	1,726.77	7.68	4.24	22.60	-3,327.82	1,576.90	3,546.61	3,535.20	11.41	310.715				
2,200.00	2,179.00	1,809.22	1,805.55	8.18	4.60	22.92	-3,339.59	1,569.52	3,531.69	3,519.55	12.14	290.949				
2,300.00	2,275.44	1,888.17	1,882.92	8.69	4.96	23.28	-3,352.36	1,560.44	3,517.39	3,504.52	12.87	273.367				
2,400.00	2,371.88	1,965.98	1,958.76	9.21	5.31	23.66	-3,366.06	1,549.73	3,503.77	3,490.17	13.60	257.670				
2,500.00	2,468.31	2,609.52	1,981.80	9.74	8.96	23.50	-3,360.89	1,560.61	3,488.27	3,470.83	17.45	199.905				
2,600.00	2,564.75	2,519.18	2,066.69	10.28	8.34	24.13	-3,382.74	1,538.76	3,477.39	3,460.12	17.26	201.432				
2,700.00	2,661.19	2,428.85	2,151.58	10.82	7.73	24.75	-3,404.59	1,516.92	3,467.00	3,449.91	17.09	202.884				
2,800.00	2,757.62	2,338.51	2,236.46	11.37	7.12	25.39	-3,426.44	1,495.07	3,457.11	3,440.18	16.93	204.250				
2,900.00	2,854.06	2,345.82	2,321.35	11.92	7.17	26.02	-3,448.29	1,473.23	3,447.72	3,430.33	17.39	198.235				
3,000.00	2,950.50	2,436.16	2,406.24	12.47	7.78	26.65	-3,470.14	1,451.38	3,438.85	3,420.46	18.39	187.005				
3,100.00	3,046.93	2,526.49	2,491.12	13.03	8.39	27.29	-3,491.98	1,429.53	3,430.48	3,411.09	19.39	176.921				
3,200.00	3,143.37	2,616.83	2,576.01	13.59	9.01	27.93	-3,513.83	1,407.69	3,422.64	3,402.25	20.39	167.827				
3,300.00	3,239.81	2,707.16	2,660.90	14.15	9.63	28.58	-3,535.68	1,385.84	3,415.31	3,393.91	21.40	159.594				
3,400.00	3,336.24	2,797.50	2,745.79	14.72	10.26	29.22	-3,557.53	1,364.00	3,408.51	3,386.11	22.41	152.113				
3,500.00	3,432.68	2,887.83	2,830.67	15.28	10.88	29.87	-3,579.38	1,342.15	3,402.24	3,378.82	23.42	145.291				
3,600.00	3,529.12	2,978.17	2,915.56	15.85	11.51	30.52	-3,601.23	1,320.31	3,396.50	3,372.07	24.43	139.049				
3,700.00	3,625.55	3,068.50	3,000.45	16.42	12.13	31.17	-3,623.08	1,298.46	3,391.29	3,365.85	25.44	133.323				
3,800.00	3,721.99	3,158.83	3,085.33	16.99	12.76	31.82	-3,644.92	1,276.62	3,386.61	3,360.17	26.45	128.054				
3,900.00	3,818.43	3,249.17	3,170.22	17.56	13.39	32.48	-3,666.77	1,254.77	3,382.47	3,355.02	27.46	123.194				
4,000.00	3,914.86	3,339.50	3,255.11	18.14	14.02	33.13	-3,688.62	1,232.92	3,378.88	3,350.41	28.47	118.700				
4,100.00	4,011.30	3,429.84	3,339.99	18.71	14.65	33.79	-3,710.47	1,211.08	3,375.82	3,346.35	29.47	114.535				
4,200.00	4,107.74	3,520.17	3,424.88	19.29	15.29	34.44	-3,732.32	1,189.23	3,373.30	3,342.82	30.48	110.667				
4,300.00	4,204.17	3,610.51	3,509.77	19.86	15.92	35.10	-3,754.17	1,167.39	3,371.33	3,339.85	31.49	107.068				
4,400.00	4,300.61	3,700.84	3,594.66	20.44	16.55	35.76	-3,776.01	1,145.54	3,369.91	3,337.42	32.49	103.714				
4,500.00	4,397.05	3,791.18	3,679.54	21.02	17.19	36.42	-3,797.86	1,123.70	3,369.03	3,335.53	33.50	100.582				
4,600.00	4,493.48	3,881.51	3,764.43	21.59	17.82	37.08	-3,819.71	1,101.85	3,368.69	3,334.20	34.50	97.653				
4,611.27	4,504.35	3,891.69	3,773.99	21.66	17.89	37.15	-3,822.17	1,099.39	3,368.69	3,334.08	34.61	97.335				
4,700.00	4,589.92	3,971.85	3,849.32	22.17	18.45	37.74	-3,841.56	1,080.00	3,368.90	3,333.41	35.50	94.910				
4,800.00	4,686.36	4,062.18	3,934.20	22.75	19.09	38.40	-3,863.41	1,058.16	3,369.66	3,333.17	36.49	92.338				
4,900.00	4,782.79	4,152.52	4,019.09	23.33	19.72	39.05	-3,885.26	1,036.31	3,370.97	3,333.48	37.49	89.922				

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,000.00	4,879.23	4,242.85	4,103.98	23.91	20.36	39.71	-3,907.10	1,014.47	3,372.81	3,334.33	38.48	87.652		
5,100.00	4,975.67	4,333.19	4,188.87	24.49	20.99	40.37	-3,928.95	992.62	3,375.21	3,335.74	39.47	85.514		
5,200.00	5,072.10	4,423.52	4,273.75	25.07	21.63	41.03	-3,950.80	970.78	3,378.14	3,337.68	40.46	83.501		
5,300.00	5,168.54	4,513.86	4,358.64	25.66	22.26	41.68	-3,972.65	948.93	3,381.62	3,340.18	41.44	81.601		
5,400.00	5,264.98	4,604.19	4,443.53	26.24	22.90	42.34	-3,994.50	927.09	3,385.63	3,343.21	42.42	79.809		
5,500.00	5,361.41	4,694.53	4,528.41	26.82	23.54	42.99	-4,016.35	905.24	3,390.19	3,346.79	43.40	78.115		
5,600.00	5,457.85	4,784.86	4,613.30	27.40	24.17	43.64	-4,038.20	883.39	3,395.28	3,350.90	44.38	76.513		
5,700.00	5,554.29	4,875.20	4,698.19	27.99	24.81	44.29	-4,060.04	861.55	3,400.90	3,355.55	45.35	74.997		
5,800.00	5,650.72	4,965.53	4,783.07	28.57	25.45	44.94	-4,081.89	839.70	3,407.05	3,360.74	46.32	73.561		
5,900.00	5,747.16	5,055.87	4,867.96	29.15	26.08	45.58	-4,103.74	817.86	3,413.74	3,366.45	47.28	72.200		
6,000.00	5,843.60	5,146.20	4,952.85	29.74	26.72	46.23	-4,125.59	796.01	3,420.94	3,372.70	48.24	70.909		
6,100.00	5,940.03	5,236.54	5,037.74	30.32	27.36	46.87	-4,147.44	774.17	3,428.67	3,379.47	49.20	69.685		
6,200.00	6,036.47	5,326.87	5,122.62	30.90	27.99	47.51	-4,169.29	752.32	3,436.92	3,386.76	50.16	68.522		
6,300.00	6,132.91	5,417.21	5,207.51	31.49	28.63	48.14	-4,191.13	730.47	3,445.68	3,394.57	51.11	67.417		
6,400.00	6,229.34	5,507.54	5,292.40	32.07	29.27	48.78	-4,212.98	708.63	3,454.95	3,402.89	52.06	66.366		
6,500.00	6,325.78	5,597.88	5,377.28	32.66	29.90	49.41	-4,234.83	686.78	3,464.72	3,411.72	53.00	65.367		
6,552.14	6,376.06	5,644.98	5,421.55	32.96	30.24	49.74	-4,246.22	675.39	3,470.02	3,416.53	53.50	64.865		
6,600.00	6,422.32	5,688.31	5,462.27	33.24	30.54	50.11	-4,256.70	664.91	3,475.26	3,421.31	53.94	64.424		
6,700.00	6,519.60	5,779.48	5,547.93	33.78	31.19	50.91	-4,278.75	642.87	3,488.18	3,433.32	54.86	63.586		
6,800.00	6,617.63	5,829.74	5,689.55	34.27	31.94	52.04	-4,314.28	607.35	3,503.18	3,447.17	56.01	62.549		
6,900.00	6,716.28	5,915.05	5,865.89	34.72	32.78	53.26	-4,354.52	567.11	3,518.38	3,461.10	57.27	61.433		
7,000.00	6,815.45	6,005.20	6,048.66	35.13	33.63	54.35	-4,391.60	530.03	3,533.37	3,474.87	58.51	60.390		
7,100.00	6,915.00	6,099.68	6,237.28	35.49	34.51	55.29	-4,425.07	496.57	3,547.94	3,488.23	59.71	59.421		
7,200.00	7,014.82	6,197.90	6,431.07	35.81	35.40	56.07	-4,454.50	467.14	3,561.85	3,500.99	60.86	58.524		
7,300.00	7,114.79	6,299.22	6,629.24	36.09	36.31	56.69	-4,479.53	442.12	3,574.96	3,513.00	61.96	57.697		
7,319.21	7,134.00	6,338.19	6,667.74	36.14	36.49	-170.03	-4,483.80	437.84	3,577.38	3,515.21	62.16	57.547		
7,400.00	7,214.79	7,102.93	6,830.91	36.33	37.23	-169.82	-4,499.82	421.83	3,586.52	3,523.52	63.00	56.930		
7,419.21	7,234.00	7,142.28	6,869.99	36.37	37.41	-169.77	-4,503.16	418.49	3,588.41	3,525.22	63.19	56.785		
7,450.00	7,264.77	7,205.59	6,932.90	36.46	37.69	10.60	-4,508.13	413.52	3,590.41	3,526.91	63.51	56.536		
7,500.00	7,314.52	7,308.62	7,035.45	36.62	38.16	10.74	-4,515.16	406.49	3,589.61	3,525.59	64.02	56.070		
7,550.00	7,363.66	7,410.90	7,137.41	36.81	38.62	10.98	-4,520.85	400.80	3,583.80	3,519.27	64.53	55.536		
7,600.00	7,411.80	7,511.25	7,237.57	37.03	39.07	11.33	-4,525.18	396.47	3,573.06	3,508.03	65.03	54.941		
7,650.00	7,458.60	7,608.53	7,334.76	37.29	39.51	11.82	-4,528.19	393.46	3,557.52	3,492.00	65.52	54.294		
7,700.00	7,503.68	7,701.69	7,427.88	37.57	39.93	12.46	-4,529.99	391.67	3,537.36	3,471.37	65.99	53.601		
7,750.00	7,546.72	7,789.75	7,515.93	37.89	40.33	13.28	-4,530.70	390.96	3,512.83	3,446.38	66.44	52.871		
7,800.00	7,587.37	7,871.86	7,598.04	38.23	40.70	14.34	-4,530.49	391.16	3,484.19	3,417.33	66.86	52.111		
7,850.00	7,625.34	7,947.27	7,673.44	38.59	41.04	15.71	-4,529.58	392.07	3,451.77	3,384.52	67.25	51.326		
7,900.00	7,660.33	8,015.39	7,741.53	38.99	41.34	17.48	-4,528.15	393.51	3,415.93	3,348.32	67.61	50.523		
7,950.00	7,692.07	8,075.73	7,801.82	39.40	41.62	19.83	-4,526.40	395.25	3,377.04	3,309.11	67.94	49.707		
8,000.00	7,720.33	8,127.94	7,853.96	39.85	41.85	22.99	-4,524.53	397.13	3,335.51	3,267.27	68.23	48.884		
8,050.00	7,744.88	8,171.79	7,897.73	40.31	42.05	27.39	-4,522.69	398.96	3,291.73	3,223.23	68.50	48.057		
8,100.00	7,765.55	8,207.15	7,933.02	40.79	42.21	33.69	-4,521.04	400.61	3,246.13	3,177.40	68.73	47.231		
8,150.00	7,782.18	8,150.00	7,295.78	41.30	41.95	25.81	-4,500.62	421.03	3,204.61	3,134.99	69.61	46.035		
8,200.00	7,794.63	8,048.45	7,774.63	41.81	40.97	46.98	-4,530.72	390.93	3,158.80	3,090.12	68.68	45.994		
8,250.00	7,802.82	8,056.63	7,782.82	42.34	40.99	61.81	-4,530.72	390.93	3,110.68	3,041.84	68.84	45.187		
8,300.00	7,806.68	8,060.49	7,786.68	42.88	41.00	81.64	-4,530.72	390.93	3,062.08	2,993.09	68.98	44.388		
8,319.29	7,807.00	8,060.82	7,787.00	43.09	41.00	90.01	-4,530.72	390.93	3,043.28	2,974.24	69.04	44.082		
8,400.00	7,807.00	8,060.81	7,787.00	43.98	41.00	90.01	-4,530.72	390.93	2,964.69	2,895.43	69.25	42.811		
8,500.00	7,807.00	8,060.81	7,787.00	45.12	41.00	90.01	-4,530.72	390.93	2,867.47	2,797.93	69.54	41.236		
8,600.00	7,806.99	8,060.81	7,786.99	46.31	41.00	90.01	-4,530.72	390.93	2,770.45	2,700.60	69.85	39.662		
8,700.00	7,806.99	8,060.81	7,786.99	47.53	41.00	90.01	-4,530.72	390.93	2,673.65	2,603.45	70.19	38.090		
8,800.00	7,806.99	8,219.58	7,945.41	48.78	42.27	103.26	-4,520.43	401.22	2,569.38	2,498.59	70.78	36.300		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	8,211.55	7,937.41	50.07	42.23	102.60	-4,520.83	400.82	2,473.20	2,402.04	71.16	34.755		
9,000.00	7,806.98	8,203.83	7,929.71	51.38	42.19	101.97	-4,521.20	400.45	2,377.32	2,305.74	71.58	33.212		
9,100.00	7,806.98	8,196.40	7,922.30	52.72	42.16	101.36	-4,521.56	400.09	2,281.78	2,209.73	72.05	31.671		
9,200.00	7,806.98	8,189.25	7,915.16	54.09	42.13	100.77	-4,521.90	399.75	2,186.62	2,114.05	72.57	30.132		
9,300.00	7,806.98	8,182.36	7,908.28	55.48	42.10	100.20	-4,522.22	399.44	2,091.90	2,018.75	73.15	28.597		
9,400.00	7,806.97	8,175.71	7,901.65	56.89	42.07	99.65	-4,522.52	399.13	1,997.68	1,923.87	73.81	27.067		
9,500.00	7,806.97	8,169.30	7,895.25	58.32	42.04	99.12	-4,522.80	398.85	1,904.03	1,829.49	74.54	25.544		
9,600.00	7,806.97	8,163.11	7,889.07	59.77	42.01	98.60	-4,523.07	398.58	1,811.05	1,735.68	75.37	24.029		
9,700.00	7,806.97	8,157.12	7,883.10	61.23	41.98	98.10	-4,523.33	398.32	1,718.84	1,642.53	76.31	22.525		
9,800.00	7,806.96	8,151.34	7,877.33	62.71	41.96	97.62	-4,523.58	398.07	1,627.53	1,550.16	77.37	21.035		
9,900.00	7,806.96	8,145.75	7,871.74	64.21	41.93	97.15	-4,523.81	397.84	1,537.29	1,458.70	78.59	19.561		
10,000.00	7,806.96	8,140.34	7,866.34	65.72	41.91	96.70	-4,524.03	397.62	1,448.32	1,368.34	79.98	18.109		
10,100.00	7,806.96	8,135.10	7,861.11	67.24	41.88	96.26	-4,524.24	397.41	1,360.86	1,279.29	81.57	16.683		
10,200.00	7,806.95	8,130.02	7,856.04	68.78	41.86	95.83	-4,524.44	397.21	1,275.23	1,191.83	83.41	15.289		
10,300.00	7,806.95	8,125.10	7,851.13	70.32	41.84	95.42	-4,524.64	397.01	1,191.83	1,106.30	85.53	13.935		
10,400.00	7,806.95	8,120.33	7,846.37	71.88	41.82	95.02	-4,524.82	396.83	1,111.15	1,023.17	87.98	12.630		
10,500.00	7,806.95	8,115.70	7,841.74	73.45	41.80	94.63	-4,525.00	396.66	1,033.84	943.03	90.82	11.384		
10,600.00	7,806.95	8,111.21	7,837.26	75.02	41.78	94.25	-4,525.16	396.49	960.71	866.63	94.08	10.212		
10,700.00	7,806.94	8,106.85	7,832.90	76.61	41.76	93.88	-4,525.32	396.33	892.78	794.98	97.80	9.129		
10,800.00	7,806.94	8,102.61	7,828.67	78.20	41.74	93.52	-4,525.48	396.17	831.34	729.38	101.96	8.154		
10,900.00	7,806.94	8,098.50	7,824.56	79.80	41.72	93.18	-4,525.62	396.03	777.93	671.48	106.44	7.308		
11,000.00	7,806.94	8,094.49	7,820.56	81.41	41.70	92.84	-4,525.76	395.89	734.29	623.29	111.00	6.615		
11,100.00	7,806.93	8,090.60	7,816.67	83.02	41.68	92.51	-4,525.90	395.75	702.26	587.07	115.19	6.097		
11,200.00	7,806.93	8,086.81	7,812.89	84.64	41.67	92.19	-4,526.03	395.62	683.46	565.01	118.45	5.770		
11,280.38	7,806.93	8,083.84	7,809.92	85.95	41.65	91.94	-4,526.13	395.52	678.72	558.68	120.05	5.654 CC, ES		
11,300.00	7,806.93	8,083.13	7,809.21	86.27	41.65	91.88	-4,526.15	395.50	679.01	558.74	120.27	5.646 SF		
11,400.00	7,806.93	8,079.54	7,805.62	87.90	41.63	91.58	-4,526.27	395.38	689.17	568.81	120.36	5.726		
11,500.00	7,806.92	8,076.04	7,802.13	89.54	41.62	91.28	-4,526.39	395.26	713.33	594.54	118.79	6.005		
11,600.00	7,806.92	8,060.74	7,786.92	91.18	41.00	90.00	-4,530.72	390.93	752.12	636.50	115.62	6.505		
11,700.00	7,806.92	8,060.73	7,786.92	92.83	41.00	90.00	-4,530.72	390.93	799.18	687.16	112.02	7.134		
11,800.00	7,806.92	8,060.73	7,786.92	94.48	41.00	90.00	-4,530.72	390.93	855.40	747.32	108.07	7.915		
11,900.00	7,806.91	8,060.73	7,786.91	96.14	41.00	90.00	-4,530.72	390.93	919.08	814.98	104.10	8.829		
12,000.00	7,806.91	8,060.73	7,786.91	97.80	41.00	90.00	-4,530.72	390.93	988.80	888.48	100.32	9.856		
12,100.00	7,806.91	8,060.72	7,786.91	99.46	41.00	90.00	-4,530.72	390.93	1,063.36	966.53	96.83	10.981		
12,200.00	7,806.91	8,060.72	7,786.91	101.13	41.00	90.00	-4,530.72	390.93	1,141.82	1,048.13	93.69	12.187		
12,300.00	7,806.90	8,060.72	7,786.90	102.80	41.00	90.00	-4,530.72	390.93	1,223.42	1,132.53	90.89	13.461		
12,400.00	7,806.90	8,060.72	7,786.90	104.47	41.00	90.00	-4,530.72	390.93	1,307.58	1,219.16	88.42	14.789		
12,500.00	7,806.90	8,060.71	7,786.90	106.15	41.00	90.00	-4,530.72	390.93	1,393.83	1,307.59	86.24	16.162		
12,600.00	7,806.90	8,060.71	7,786.90	107.83	41.00	90.00	-4,530.72	390.93	1,481.82	1,397.48	84.34	17.571		
12,700.00	7,806.89	8,060.71	7,786.89	109.52	41.00	90.00	-4,530.72	390.93	1,571.24	1,488.57	82.67	19.007		
12,800.00	7,806.89	8,060.71	7,786.89	111.20	41.00	90.00	-4,530.72	390.93	1,661.87	1,580.67	81.20	20.466		
12,900.00	7,806.89	8,060.71	7,786.89	112.89	41.00	90.00	-4,530.72	390.93	1,753.51	1,673.60	79.92	21.942		
13,000.00	7,806.89	8,060.70	7,786.89	114.59	41.00	90.00	-4,530.72	390.93	1,846.03	1,767.24	78.79	23.430		
13,100.00	7,806.88	8,060.70	7,786.88	116.28	41.00	90.00	-4,530.72	390.93	1,939.29	1,861.49	77.80	24.927		
13,200.00	7,806.88	8,060.70	7,786.88	117.98	41.00	90.00	-4,530.72	390.93	2,033.19	1,956.26	76.92	26.431		
13,300.00	7,806.88	8,060.70	7,786.88	119.68	41.00	90.00	-4,530.72	390.93	2,127.64	2,051.49	76.15	27.939		
13,400.00	7,806.88	8,060.69	7,786.88	121.38	41.00	90.00	-4,530.72	390.93	2,222.58	2,147.11	75.47	29.450		
13,500.00	7,806.88	8,060.69	7,786.88	123.08	41.00	90.00	-4,530.72	390.93	2,317.95	2,243.08	74.87	30.961		
13,600.00	7,806.87	8,060.69	7,786.87	124.79	41.00	90.00	-4,530.72	390.93	2,413.69	2,339.35	74.33	32.472		
13,700.00	7,806.87	8,060.69	7,786.87	126.49	41.00	90.00	-4,530.72	390.93	2,509.76	2,435.90	73.86	33.981		
13,800.00	7,806.87	8,060.68	7,786.87	128.20	41.00	89.99	-4,530.72	390.93	2,606.13	2,532.69	73.44	35.489		
13,900.00	7,806.87	8,060.68	7,786.87	129.91	41.00	89.99	-4,530.72	390.93	2,702.76	2,629.70	73.06	36.993		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MVWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,000.00	7,806.86	8,060.68	7,786.86	131.62	41.00	89.99	-4,530.72	390.93	2,799.63	2,726.90	72.73	38.495		
14,100.00	7,806.86	8,060.68	7,786.86	133.34	41.00	89.99	-4,530.72	390.93	2,896.71	2,824.28	72.43	39.993		
14,200.00	7,806.86	8,060.67	7,786.86	135.05	41.00	89.99	-4,530.72	390.93	2,993.99	2,921.82	72.17	41.488		
14,300.00	7,806.86	8,060.67	7,786.86	136.77	41.00	89.99	-4,530.72	390.93	3,091.43	3,019.50	71.93	42.978		
14,400.00	7,806.85	8,060.67	7,786.85	138.49	41.00	89.99	-4,530.72	390.93	3,189.04	3,117.32	71.72	44.464		
14,500.00	7,806.85	8,060.67	7,786.85	140.21	41.00	89.99	-4,530.72	390.93	3,286.79	3,215.25	71.54	45.946		
14,600.00	7,806.85	8,060.66	7,786.85	141.93	41.00	89.99	-4,530.72	390.93	3,384.67	3,313.30	71.37	47.424		
14,700.00	7,806.85	8,060.66	7,786.85	143.65	41.00	89.99	-4,530.72	390.93	3,482.67	3,411.45	71.23	48.897		
14,800.00	7,806.84	8,060.66	7,786.84	145.37	41.00	89.99	-4,530.72	390.93	3,580.78	3,509.69	71.10	50.365		
14,900.00	7,806.84	8,060.66	7,786.84	147.10	41.00	89.99	-4,530.72	390.93	3,679.00	3,608.01	70.98	51.829		
15,000.00	7,806.84	8,060.65	7,786.84	148.83	41.00	89.99	-4,530.72	390.93	3,777.30	3,706.42	70.88	53.288		
15,100.00	7,806.84	8,060.65	7,786.84	150.55	41.00	89.99	-4,530.72	390.93	3,875.70	3,804.90	70.80	54.743		
15,200.00	7,806.83	8,060.65	7,786.83	152.28	41.00	89.99	-4,530.72	390.93	3,974.17	3,903.45	70.72	56.193		
15,300.00	7,806.83	8,060.65	7,786.83	154.01	41.00	89.99	-4,530.72	390.93	4,072.72	4,002.06	70.66	57.638		
15,400.00	7,806.83	8,060.64	7,786.83	155.74	41.00	89.99	-4,530.72	390.93	4,171.34	4,100.73	70.61	59.079		
15,500.00	7,806.83	8,060.64	7,786.83	157.47	41.00	89.99	-4,530.72	390.93	4,270.02	4,199.46	70.56	60.515		
15,600.00	7,806.82	8,060.64	7,786.82	159.20	41.00	89.99	-4,530.72	390.93	4,368.76	4,298.24	70.53	61.946		
15,700.00	7,806.82	8,060.64	7,786.82	160.93	41.00	89.99	-4,530.72	390.93	4,467.56	4,397.06	70.50	63.373		
15,800.00	7,806.82	8,060.64	7,786.82	162.67	41.00	89.99	-4,530.72	390.93	4,566.41	4,495.94	70.47	64.795		
15,900.00	7,806.82	8,060.63	7,786.82	164.40	41.00	89.99	-4,530.72	390.93	4,665.31	4,594.85	70.46	66.213		
16,000.00	7,806.81	8,060.63	7,786.81	166.14	41.00	89.99	-4,530.72	390.93	4,764.26	4,693.81	70.45	67.626		
16,100.00	7,806.81	8,060.63	7,786.81	167.87	41.00	89.99	-4,530.72	390.93	4,863.24	4,792.80	70.45	69.034		
16,200.00	7,806.81	8,060.63	7,786.81	169.61	41.00	89.99	-4,530.72	390.93	4,962.27	4,891.82	70.45	70.438		
16,300.00	7,806.81	8,060.62	7,786.81	171.35	41.00	89.99	-4,530.72	390.93	5,061.34	4,990.88	70.46	71.838		
16,400.00	7,806.81	8,060.62	7,786.81	173.09	41.00	89.99	-4,530.72	390.93	5,160.44	5,089.98	70.47	73.232		
16,500.00	7,806.80	8,060.62	7,786.80	174.83	41.00	89.99	-4,530.72	390.93	5,259.58	5,189.10	70.48	74.623		
16,600.00	7,806.80	8,060.62	7,786.80	176.57	41.00	89.99	-4,530.72	390.93	5,358.75	5,288.25	70.50	76.009		
16,700.00	7,806.80	8,060.61	7,786.80	178.31	41.00	89.99	-4,530.72	390.93	5,457.95	5,387.42	70.53	77.390		
16,800.00	7,806.80	8,060.61	7,786.80	180.05	41.00	89.99	-4,530.72	390.93	5,557.18	5,486.62	70.55	78.767		
16,900.00	7,806.79	8,060.61	7,786.79	181.79	41.00	89.99	-4,530.72	390.93	5,656.43	5,585.85	70.58	80.139		
17,000.00	7,806.79	8,060.61	7,786.79	183.53	41.00	89.99	-4,530.72	390.93	5,755.71	5,685.10	70.62	81.507		
17,100.00	7,806.79	8,060.60	7,786.79	185.27	41.00	89.99	-4,530.72	390.93	5,855.02	5,784.37	70.65	82.871		
17,200.00	7,806.79	8,060.60	7,786.79	187.02	41.00	89.99	-4,530.72	390.93	5,954.35	5,883.66	70.69	84.230		
17,300.00	7,806.78	8,060.60	7,786.78	188.76	41.00	89.99	-4,530.72	390.93	6,053.70	5,982.96	70.73	85.584		
17,400.00	7,806.78	8,060.60	7,786.78	190.51	41.00	89.99	-4,530.72	390.93	6,153.07	6,082.29	70.78	86.935		
17,500.00	7,806.78	8,060.59	7,786.78	192.25	41.00	89.99	-4,530.72	390.93	6,252.46	6,181.64	70.83	88.280		
17,600.00	7,806.78	8,060.59	7,786.78	194.00	41.00	89.99	-4,530.72	390.93	6,351.87	6,281.00	70.87	89.622		
17,700.00	7,806.77	8,060.59	7,786.77	195.74	41.00	89.99	-4,530.72	390.93	6,451.30	6,380.38	70.93	90.959		
17,800.00	7,806.77	8,060.59	7,786.77	197.49	41.00	89.99	-4,530.72	390.93	6,550.75	6,479.77	70.98	92.291		
17,900.00	7,806.77	8,060.58	7,786.77	199.24	41.00	89.99	-4,530.72	390.93	6,650.21	6,579.18	71.03	93.619		
17,973.82	7,807.00	8,060.82	7,787.00	200.53	41.00	89.99	-4,530.72	390.93	6,723.63	6,652.55	71.08	94.596		
17,974.53	7,807.00	8,060.82	7,787.00	200.55	41.00	89.99	-4,530.72	390.93	6,724.34	6,649.25	75.08	89.560		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	146.96	-4,922.49	3,201.87	5,872.52					
100.00	100.00	40.00	40.00	0.13	0.47	146.96	-4,922.49	3,201.87	5,872.21	5,871.60	0.61	9,652.044		
200.00	200.00	140.00	140.00	0.49	2.10	146.96	-4,922.49	3,201.87	5,872.21	5,869.62	2.59	2,263.026		
300.00	300.00	240.00	240.00	0.85	4.31	146.96	-4,922.49	3,201.87	5,872.21	5,867.05	5.16	1,137.958		
400.00	400.00	340.00	340.00	1.21	6.37	146.96	-4,922.49	3,201.87	5,872.21	5,864.63	7.58	774.411		
500.00	500.00	440.00	440.00	1.57	8.41	146.96	-4,922.49	3,201.87	5,872.21	5,862.23	9.98	588.500		
600.00	600.00	540.00	540.00	1.93	10.44	146.96	-4,922.49	3,201.87	5,872.21	5,859.85	12.36	474.971		
700.00	700.00	640.00	640.00	2.29	12.46	146.96	-4,922.49	3,201.87	5,872.21	5,857.47	14.74	398.301		
800.00	800.00	740.00	740.00	2.64	14.48	146.96	-4,922.49	3,201.87	5,872.21	5,855.09	17.12	343.002		
900.00	900.00	840.00	840.00	3.00	16.49	146.96	-4,922.49	3,201.87	5,872.21	5,852.72	19.50	301.215		
1,000.00	1,000.00	940.00	940.00	3.36	18.51	146.96	-4,922.49	3,201.87	5,872.21	5,850.34	21.87	268.519		
1,100.00	1,100.00	1,040.00	1,040.00	3.72	20.52	146.96	-4,922.49	3,201.87	5,872.21	5,847.97	24.24	242.234		
1,200.00	1,199.98	1,139.98	1,139.98	4.06	22.54	13.78	-4,922.49	3,201.87	5,870.52	5,843.92	26.60	220.703		
1,300.00	1,299.84	1,239.84	1,239.84	4.40	24.55	13.82	-4,922.49	3,201.87	5,865.43	5,836.49	28.94	202.651		
1,400.00	1,399.45	1,339.45	1,339.45	4.74	26.55	13.88	-4,922.49	3,201.87	5,856.97	5,825.68	31.29	187.200		
1,500.00	1,498.70	1,438.70	1,438.70	5.09	28.55	13.97	-4,922.49	3,201.87	5,845.14	5,811.51	33.63	173.822		
1,600.00	1,597.47	1,537.47	1,537.47	5.46	30.54	14.08	-4,922.49	3,201.87	5,829.95	5,793.99	35.96	162.121		
1,700.00	1,695.62	1,635.62	1,635.62	5.85	32.51	14.22	-4,922.49	3,201.87	5,811.43	5,773.14	38.29	151.793		
1,800.00	1,793.06	1,733.06	1,733.06	6.27	34.47	14.38	-4,922.49	3,201.87	5,789.60	5,749.00	40.60	142.605		
1,867.07	1,857.94	1,802.06	1,797.94	6.57	35.86	14.51	-4,922.49	3,201.87	5,773.11	5,730.89	42.23	136.714		
1,900.00	1,889.69	1,829.69	1,829.69	6.72	36.42	14.53	-4,922.49	3,201.87	5,764.66	5,721.76	42.90	134.368		
2,000.00	1,986.13	1,926.13	1,926.13	7.19	38.36	14.60	-4,922.49	3,201.87	5,739.00	5,693.80	45.20	126.974		
2,100.00	2,082.57	2,022.57	2,022.57	7.68	40.30	14.66	-4,922.49	3,201.87	5,713.34	5,665.84	47.50	120.282		
2,200.00	2,179.00	2,119.00	2,119.00	8.18	42.24	14.73	-4,922.49	3,201.87	5,687.69	5,637.89	49.81	114.198		
2,300.00	2,275.44	2,215.44	2,215.44	8.69	44.18	14.80	-4,922.49	3,201.87	5,662.05	5,609.94	52.12	108.645		
2,400.00	2,371.88	2,311.88	2,311.88	9.21	46.12	14.87	-4,922.49	3,201.87	5,636.42	5,581.99	54.43	103.557		
2,500.00	2,468.31	2,408.31	2,408.31	9.74	48.06	14.94	-4,922.49	3,201.87	5,610.79	5,554.05	56.74	98.878		
2,600.00	2,564.75	2,504.75	2,504.75	10.28	50.00	15.01	-4,922.49	3,201.87	5,585.17	5,526.11	59.06	94.563		
2,700.00	2,661.19	2,601.19	2,601.19	10.82	51.94	15.08	-4,922.49	3,201.87	5,559.56	5,498.18	61.38	90.570		
2,800.00	2,757.62	2,702.38	2,697.62	11.37	53.97	15.15	-4,922.49	3,201.87	5,533.96	5,470.15	63.80	86.735		
2,900.00	2,854.06	2,805.94	2,794.06	11.92	56.06	15.22	-4,922.49	3,201.87	5,508.36	5,442.09	66.27	83.117		
3,000.00	2,950.50	2,909.50	2,890.50	12.47	58.14	15.29	-4,922.49	3,201.87	5,482.78	5,414.03	68.74	79.758		
3,100.00	3,046.93	2,986.93	2,968.93	13.03	59.70	15.37	-4,922.49	3,201.87	5,457.20	5,386.51	70.69	77.200		
3,200.00	3,143.37	3,083.37	3,063.37	13.59	61.64	15.44	-4,922.49	3,201.87	5,431.63	5,358.61	73.02	74.386		
3,300.00	3,239.81	3,179.81	3,159.81	14.15	63.57	15.51	-4,922.49	3,201.87	5,406.07	5,330.71	75.35	71.745		
3,400.00	3,336.24	3,276.24	3,256.24	14.72	65.51	15.59	-4,922.49	3,201.87	5,380.51	5,302.83	77.68	69.262		
3,500.00	3,432.68	3,372.68	3,352.68	15.28	67.45	15.66	-4,922.49	3,201.87	5,354.97	5,274.95	80.02	66.922		
3,600.00	3,529.12	3,469.12	3,449.12	15.85	69.39	15.74	-4,922.49	3,201.87	5,329.43	5,247.08	82.35	64.714		
3,700.00	3,625.55	3,565.55	3,545.55	16.42	71.33	15.82	-4,922.49	3,201.87	5,303.91	5,219.22	84.69	62.628		
3,800.00	3,721.99	3,661.99	3,641.99	16.99	73.27	15.90	-4,922.49	3,201.87	5,278.39	5,191.36	87.03	60.652		
3,900.00	3,818.43	3,758.43	3,738.43	17.56	75.21	15.98	-4,922.49	3,201.87	5,252.88	5,163.52	89.37	58.780		
4,000.00	3,914.86	3,854.86	3,834.86	18.14	77.15	16.05	-4,922.49	3,201.87	5,227.38	5,135.68	91.70	57.002		
4,100.00	4,011.30	3,951.30	3,931.30	18.71	79.09	16.14	-4,922.49	3,201.87	5,201.90	5,107.85	94.04	55.313		
4,200.00	4,107.74	4,047.74	4,027.74	19.29	81.03	16.22	-4,922.49	3,201.87	5,176.42	5,080.03	96.39	53.705		
4,300.00	4,204.17	4,144.17	4,124.17	19.86	82.97	16.30	-4,922.49	3,201.87	5,150.95	5,052.22	98.73	52.173		
4,400.00	4,300.61	4,240.61	4,220.61	20.44	84.91	16.38	-4,922.49	3,201.87	5,125.49	5,024.42	101.07	50.712		
4,500.00	4,397.05	4,337.05	4,317.05	21.02	86.85	16.46	-4,922.49	3,201.87	5,100.04	4,996.63	103.41	49.317		
4,600.00	4,493.48	4,433.48	4,413.48	21.59	88.79	16.55	-4,922.49	3,201.87	5,074.60	4,968.84	105.76	47.983		
4,700.00	4,589.92	4,529.92	4,509.92	22.17	90.73	16.63	-4,922.49	3,201.87	5,049.17	4,941.07	108.10	46.707		
4,800.00	4,686.36	4,626.36	4,606.36	22.75	92.67	16.72	-4,922.49	3,201.87	5,023.76	4,913.31	110.45	45.485		
4,900.00	4,782.79	4,722.79	4,702.79	23.33	94.61	16.81	-4,922.49	3,201.87	4,998.35	4,885.55	112.80	44.313		
5,000.00	4,879.23	4,819.23	4,799.23	23.91	96.55	16.90	-4,922.49	3,201.87	4,972.95	4,857.81	115.14	43.189		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,915.67	4,915.67	24.49	98.49	16.98	-4,922.49	3,201.87	4,947.57	4,830.08	117.49	42.110		
5,200.00	5,072.10	5,012.10	5,012.10	25.07	100.42	17.07	-4,922.49	3,201.87	4,922.19	4,802.35	119.84	41.073		
5,300.00	5,168.54	5,108.54	5,108.54	25.66	102.36	17.16	-4,922.49	3,201.87	4,896.83	4,774.64	122.19	40.076		
5,400.00	5,264.98	5,204.98	5,204.98	26.24	104.30	17.26	-4,922.49	3,201.87	4,871.48	4,746.94	124.54	39.116		
5,500.00	5,361.41	5,301.41	5,301.41	26.82	106.24	17.35	-4,922.49	3,201.87	4,846.14	4,719.25	126.89	38.191		
5,600.00	5,457.85	5,402.15	5,397.85	27.40	108.27	17.44	-4,922.49	3,201.87	4,820.82	4,691.49	129.33	37.275		
5,700.00	5,554.29	5,505.71	5,494.29	27.99	110.35	17.54	-4,922.49	3,201.87	4,795.50	4,663.68	131.83	36.378		
5,800.00	5,650.72	5,609.28	5,590.72	28.57	112.43	17.63	-4,922.49	3,201.87	4,770.20	4,635.88	134.32	35.513		
5,900.00	5,747.16	5,687.16	5,687.16	29.15	114.00	17.73	-4,922.49	3,201.87	4,744.91	4,608.61	136.30	34.812		
6,000.00	5,843.60	5,783.60	5,783.60	29.74	115.94	17.83	-4,922.49	3,201.87	4,719.64	4,580.98	138.66	34.038		
6,100.00	5,940.03	5,880.03	5,880.03	30.32	117.88	17.92	-4,922.49	3,201.87	4,694.37	4,553.36	141.01	33.290		
6,200.00	6,036.47	5,976.47	5,976.47	30.90	119.82	18.02	-4,922.49	3,201.87	4,669.12	4,525.75	143.37	32.567		
6,300.00	6,132.91	6,072.91	6,072.91	31.49	121.76	18.12	-4,922.49	3,201.87	4,643.89	4,498.16	145.73	31.867		
6,400.00	6,229.34	6,169.34	6,169.34	32.07	123.70	18.23	-4,922.49	3,201.87	4,618.66	4,470.58	148.08	31.190		
6,500.00	6,325.78	6,265.78	6,265.78	32.66	125.64	18.33	-4,922.49	3,201.87	4,593.45	4,443.01	150.44	30.533		
6,552.14	6,376.06	6,316.06	6,316.06	32.96	126.65	18.38	-4,922.49	3,201.87	4,580.32	4,428.64	151.67	30.199		
6,600.00	6,422.32	6,362.32	6,362.32	33.24	127.58	18.36	-4,922.49	3,201.87	4,568.63	4,415.83	152.80	29.899		
6,700.00	6,519.60	6,459.60	6,459.60	33.78	129.53	18.30	-4,922.49	3,201.87	4,546.60	4,391.43	155.17	29.302		
6,800.00	6,617.63	6,557.63	6,557.63	34.27	131.51	18.26	-4,922.49	3,201.87	4,527.82	4,370.29	157.53	28.742		
6,900.00	6,716.28	6,656.28	6,656.28	34.72	133.49	18.23	-4,922.49	3,201.87	4,512.31	4,352.41	159.90	28.220		
7,000.00	6,815.45	6,755.45	6,755.45	35.13	135.48	18.20	-4,922.49	3,201.87	4,500.10	4,337.83	162.26	27.733		
7,100.00	6,915.00	6,855.00	6,855.00	35.49	137.49	18.18	-4,922.49	3,201.87	4,491.18	4,326.56	164.62	27.282		
7,200.00	7,014.82	6,954.82	6,954.82	35.81	139.49	18.17	-4,922.49	3,201.87	4,485.57	4,318.60	166.97	26.865		
7,300.00	7,114.79	7,054.79	7,054.79	36.09	141.50	18.17	-4,922.49	3,201.87	4,483.27	4,313.97	169.30	26.481		
7,319.21	7,134.00	7,074.00	7,074.00	36.14	141.89	151.35	-4,922.49	3,201.87	4,483.21	4,313.47	169.74	26.411		
7,400.00	7,214.79	7,154.79	7,154.79	36.33	143.51	151.35	-4,922.49	3,201.87	4,483.21	4,311.60	171.61	26.124		
7,419.21	7,234.00	7,174.00	7,174.00	36.37	143.90	151.35	-4,922.49	3,201.87	4,483.21	4,311.16	172.05	26.057		
7,450.00	7,264.77	7,204.77	7,204.77	36.46	144.52	-28.34	-4,922.49	3,201.87	4,482.48	4,309.72	172.77	25.945		
7,500.00	7,314.52	7,254.52	7,254.52	36.62	145.52	-28.58	-4,922.49	3,201.87	4,478.21	4,304.29	173.92	25.749		
7,550.00	7,363.66	7,303.66	7,303.66	36.81	146.51	-29.03	-4,922.49	3,201.87	4,470.13	4,295.07	175.06	25.535		
7,600.00	7,411.80	7,351.80	7,351.80	37.03	147.48	-29.71	-4,922.49	3,201.87	4,458.33	4,282.15	176.18	25.306		
7,650.00	7,458.60	7,401.40	7,398.60	37.29	148.47	-30.63	-4,922.49	3,201.87	4,442.89	4,265.58	177.32	25.056		
7,700.00	7,503.68	7,443.68	7,443.68	37.57	149.32	-31.84	-4,922.49	3,201.87	4,423.96	4,245.66	178.30	24.812		
7,750.00	7,546.72	7,486.72	7,486.72	37.89	150.19	-33.35	-4,922.49	3,201.87	4,401.67	4,222.39	179.29	24.551		
7,800.00	7,587.37	7,527.37	7,527.37	38.23	151.01	-35.22	-4,922.49	3,201.87	4,376.23	4,196.01	180.22	24.283		
7,850.00	7,625.34	7,565.34	7,565.34	38.59	151.77	-37.50	-4,922.49	3,201.87	4,347.84	4,166.76	181.08	24.010		
7,900.00	7,660.33	7,600.33	7,600.33	38.99	152.47	-40.26	-4,922.49	3,201.87	4,316.74	4,134.86	181.87	23.735		
7,950.00	7,692.07	7,632.07	7,632.07	39.40	153.11	-43.58	-4,922.49	3,201.87	4,283.17	4,100.59	182.58	23.459		
8,000.00	7,720.33	7,660.33	7,660.33	39.85	153.68	-47.55	-4,922.49	3,201.87	4,247.43	4,064.21	183.21	23.183		
8,050.00	7,744.88	7,684.88	7,684.88	40.31	154.18	-52.26	-4,922.49	3,201.87	4,209.79	4,026.04	183.75	22.910		
8,100.00	7,765.55	7,705.55	7,705.55	40.79	154.59	-57.77	-4,922.49	3,201.87	4,170.57	3,986.37	184.20	22.641		
8,150.00	7,782.18	7,722.18	7,722.18	41.30	154.93	-64.13	-4,922.49	3,201.87	4,130.08	3,945.52	184.56	22.378		
8,200.00	7,794.63	7,734.63	7,734.63	41.81	155.18	-71.24	-4,922.49	3,201.87	4,088.66	3,903.83	184.83	22.122		
8,250.00	7,802.82	7,742.82	7,742.82	42.34	155.34	-78.94	-4,922.49	3,201.87	4,046.61	3,861.62	185.00	21.874		
8,300.00	7,806.68	7,746.68	7,746.68	42.88	155.42	-86.93	-4,922.49	3,201.87	4,004.29	3,819.22	185.08	21.636		
8,319.29	7,807.00	7,747.00	7,747.00	43.09	155.42	-90.00	-4,922.49	3,201.87	3,987.96	3,802.88	185.08	21.547		
8,400.00	7,807.00	7,747.00	7,747.00	43.98	155.42	-90.00	-4,922.49	3,201.87	3,919.91	3,734.81	185.10	21.177		
8,500.00	7,807.00	7,747.00	7,747.00	45.12	155.42	-90.00	-4,922.49	3,201.87	3,836.27	3,651.08	185.19	20.716		
8,600.00	7,806.99	7,746.99	7,746.99	46.31	155.42	-90.00	-4,922.49	3,201.87	3,753.43	3,568.08	185.35	20.251		
8,700.00	7,806.99	7,746.99	7,746.99	47.53	155.42	-90.00	-4,922.49	3,201.87	3,671.45	3,485.85	185.60	19.782		
8,800.00	7,806.99	7,746.99	7,746.99	48.78	155.42	-90.00	-4,922.49	3,201.87	3,590.38	3,404.44	185.94	19.309		
8,900.00	7,806.99	7,746.99	7,746.99	50.07	155.42	-90.00	-4,922.49	3,201.87	3,510.29	3,323.90	186.39	18.833		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	155.42	-90.00	-4,922.49	3,201.87	3,431.24	3,244.29	186.95	18.354		
9,100.00	7,806.98	7,746.98	7,746.98	52.72	155.42	-90.00	-4,922.49	3,201.87	3,353.31	3,165.68	187.63	17.872		
9,200.00	7,806.98	7,746.98	7,746.98	54.09	155.42	-90.00	-4,922.49	3,201.87	3,276.58	3,088.14	188.44	17.388		
9,300.00	7,806.98	7,746.98	7,746.98	55.48	155.42	-90.00	-4,922.49	3,201.87	3,201.14	3,011.75	189.39	16.902		
9,400.00	7,806.97	7,746.97	7,746.97	56.89	155.42	-90.00	-4,922.49	3,201.87	3,127.07	2,936.59	190.47	16.417		
9,500.00	7,806.97	7,746.97	7,746.97	58.32	155.42	-90.00	-4,922.49	3,201.87	3,054.48	2,862.77	191.71	15.933		
9,600.00	7,806.97	7,746.97	7,746.97	59.77	155.42	-90.00	-4,922.49	3,201.87	2,983.48	2,790.39	193.09	15.451		
9,700.00	7,806.97	7,746.97	7,746.97	61.23	155.42	-90.00	-4,922.49	3,201.87	2,914.18	2,719.55	194.62	14.973		
9,800.00	7,806.96	7,746.96	7,746.96	62.71	155.42	-90.00	-4,922.49	3,201.87	2,846.70	2,650.39	196.31	14.501		
9,900.00	7,806.96	7,746.96	7,746.96	64.21	155.42	-90.00	-4,922.49	3,201.87	2,781.19	2,583.03	198.16	14.035		
10,000.00	7,806.96	7,746.96	7,746.96	65.72	155.42	-90.00	-4,922.49	3,201.87	2,717.77	2,517.62	200.15	13.579		
10,100.00	7,806.96	7,746.96	7,746.96	67.24	155.42	-90.00	-4,922.49	3,201.87	2,656.61	2,454.32	202.29	13.132		
10,200.00	7,806.95	7,746.95	7,746.95	68.78	155.42	-90.00	-4,922.49	3,201.87	2,597.86	2,393.27	204.58	12.698		
10,300.00	7,806.95	7,746.95	7,746.95	70.32	155.42	-90.00	-4,922.49	3,201.87	2,541.68	2,334.67	207.01	12.278		
10,400.00	7,806.95	7,746.95	7,746.95	71.88	155.42	-90.00	-4,922.49	3,201.87	2,488.26	2,278.69	209.57	11.873		
10,500.00	7,806.95	7,746.95	7,746.95	73.45	155.42	-90.00	-4,922.49	3,201.87	2,437.77	2,225.52	212.25	11.486		
10,600.00	7,806.95	7,746.95	7,746.95	75.02	155.42	-90.00	-4,922.49	3,201.87	2,390.40	2,175.37	215.03	11.117		
10,700.00	7,806.94	7,746.94	7,746.94	76.61	155.42	-90.00	-4,922.49	3,201.87	2,346.34	2,128.43	217.90	10.768		
10,800.00	7,806.94	7,746.94	7,746.94	78.20	155.42	-90.00	-4,922.49	3,201.87	2,305.77	2,084.92	220.85	10.440		
10,900.00	7,806.94	7,746.94	7,746.94	79.80	155.42	-90.00	-4,922.49	3,201.87	2,268.89	2,045.04	223.85	10.136		
11,000.00	7,806.94	7,746.94	7,746.94	81.41	155.42	-90.00	-4,922.49	3,201.87	2,235.88	2,009.00	226.88	9.855		
11,100.00	7,806.93	7,746.93	7,746.93	83.02	155.42	-90.00	-4,922.49	3,201.87	2,206.91	1,976.99	229.92	9.599		
11,200.00	7,806.93	7,746.93	7,746.93	84.64	155.42	-90.00	-4,922.49	3,201.87	2,182.14	1,949.21	232.93	9.368		
11,300.00	7,806.93	7,746.93	7,746.93	86.27	155.42	-90.00	-4,922.49	3,201.87	2,161.72	1,925.82	235.89	9.164		
11,400.00	7,806.93	7,746.93	7,746.93	87.90	155.42	-90.00	-4,922.49	3,201.87	2,145.77	1,906.98	238.78	8.986		
11,500.00	7,806.92	7,746.92	7,746.92	89.54	155.42	-90.00	-4,922.49	3,201.87	2,134.38	1,892.82	241.57	8.836		
11,600.00	7,806.92	7,746.92	7,746.92	91.18	155.42	-90.00	-4,922.49	3,201.87	2,127.65	1,883.43	244.22	8.712		
11,693.56	7,806.92	7,746.92	7,746.92	92.72	155.42	-90.00	-4,922.49	3,201.87	2,125.59	1,879.02	246.57	8.621 CC		
11,700.00	7,806.92	7,746.92	7,746.92	92.83	155.42	-90.00	-4,922.49	3,201.87	2,125.60	1,878.87	246.73	8.615 ES		
11,800.00	7,806.92	7,746.92	7,746.92	94.48	155.42	-90.00	-4,922.49	3,201.87	2,128.25	1,879.20	249.06	8.545		
11,900.00	7,806.91	7,746.91	7,746.91	96.14	155.42	-90.00	-4,922.49	3,201.87	2,135.59	1,884.39	251.20	8.502		
12,000.00	7,806.91	7,746.91	7,746.91	97.80	155.42	-90.00	-4,922.49	3,201.87	2,147.57	1,894.42	253.14	8.484 SF		
12,100.00	7,806.91	7,746.91	7,746.91	99.46	155.42	-90.00	-4,922.49	3,201.87	2,164.10	1,909.22	254.88	8.491		
12,200.00	7,806.91	7,746.91	7,746.91	101.13	155.42	-90.00	-4,922.49	3,201.87	2,185.09	1,928.68	256.41	8.522		
12,300.00	7,806.90	7,746.90	7,746.90	102.80	155.42	-90.00	-4,922.49	3,201.87	2,210.41	1,952.68	257.72	8.577		
12,400.00	7,806.90	7,746.90	7,746.90	104.47	155.42	-90.00	-4,922.49	3,201.87	2,239.91	1,981.07	258.84	8.654		
12,500.00	7,806.90	7,746.90	7,746.90	106.15	155.42	-90.00	-4,922.49	3,201.87	2,273.43	2,013.68	259.75	8.752		
12,600.00	7,806.90	7,746.90	7,746.90	107.83	155.42	-90.00	-4,922.49	3,201.87	2,310.79	2,050.31	260.48	8.871		
12,700.00	7,806.89	7,746.89	7,746.89	109.52	155.42	-90.00	-4,922.49	3,201.87	2,351.82	2,090.78	261.04	9.009		
12,800.00	7,806.89	7,746.89	7,746.89	111.20	155.42	-90.00	-4,922.49	3,201.87	2,396.32	2,134.88	261.44	9.166		
12,900.00	7,806.89	7,746.89	7,746.89	112.89	155.42	-90.00	-4,922.49	3,201.87	2,444.10	2,182.40	261.70	9.339		
13,000.00	7,806.89	7,746.89	7,746.89	114.59	155.42	-90.00	-4,922.49	3,201.87	2,494.98	2,233.15	261.82	9.529		
13,100.00	7,806.88	7,746.88	7,746.88	116.28	155.42	-90.00	-4,922.49	3,201.87	2,548.76	2,286.93	261.84	9.734		
13,200.00	7,806.88	7,746.88	7,746.88	117.98	155.42	-90.00	-4,922.49	3,201.87	2,605.28	2,343.54	261.74	9.954		
13,300.00	7,806.88	7,746.88	7,746.88	119.68	155.42	-90.00	-4,922.49	3,201.87	2,664.35	2,402.79	261.57	10.186		
13,400.00	7,806.88	7,746.88	7,746.88	121.38	155.42	-90.00	-4,922.49	3,201.87	2,725.81	2,464.50	261.31	10.431		
13,500.00	7,806.88	7,746.88	7,746.88	123.08	155.42	-90.00	-4,922.49	3,201.87	2,789.51	2,528.51	260.99	10.688		
13,600.00	7,806.87	7,746.87	7,746.87	124.79	155.42	-90.00	-4,922.49	3,201.87	2,855.28	2,594.66	260.62	10.956		
13,700.00	7,806.87	7,746.87	7,746.87	126.49	155.42	-90.00	-4,922.49	3,201.87	2,923.00	2,662.80	260.20	11.234		
13,800.00	7,806.87	7,746.87	7,746.87	128.20	155.42	-90.00	-4,922.49	3,201.87	2,992.53	2,732.78	259.75	11.521		
13,900.00	7,806.87	7,746.87	7,746.87	129.91	155.42	-90.00	-4,922.49	3,201.87	3,063.74	2,804.48	259.26	11.817		
14,000.00	7,806.86	7,746.86	7,746.86	131.62	155.42	-90.00	-4,922.49	3,201.87	3,136.52	2,877.77	258.75	12.122		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,746.86	7,746.86	133.34	155.42	-90.00	-4,922.49	3,201.87	3,210.78	2,952.55	258.23	12.434		
14,200.00	7,806.86	7,746.86	7,746.86	135.05	155.42	-90.00	-4,922.49	3,201.87	3,286.39	3,028.70	257.69	12.753		
14,300.00	7,806.86	7,746.86	7,746.86	136.77	155.42	-90.00	-4,922.49	3,201.87	3,363.28	3,106.14	257.14	13.080		
14,400.00	7,806.85	7,746.85	7,746.85	138.49	155.42	-90.00	-4,922.49	3,201.87	3,441.36	3,184.77	256.59	13.412		
14,500.00	7,806.85	7,746.85	7,746.85	140.21	155.42	-90.00	-4,922.49	3,201.87	3,520.54	3,264.51	256.03	13.750		
14,600.00	7,806.85	7,746.85	7,746.85	141.93	155.42	-90.00	-4,922.49	3,201.87	3,600.77	3,345.29	255.48	14.094		
14,700.00	7,806.85	7,746.85	7,746.85	143.65	155.42	-90.00	-4,922.49	3,201.87	3,681.96	3,427.03	254.92	14.443		
14,800.00	7,806.84	7,746.84	7,746.84	145.37	155.42	-90.00	-4,922.49	3,201.87	3,764.05	3,509.68	254.38	14.797		
14,900.00	7,806.84	7,746.84	7,746.84	147.10	155.42	-90.00	-4,922.49	3,201.87	3,847.00	3,593.16	253.83	15.156		
15,000.00	7,806.84	7,746.84	7,746.84	148.83	155.42	-90.00	-4,922.49	3,201.87	3,930.73	3,677.44	253.30	15.518		
15,100.00	7,806.84	7,746.84	7,746.84	150.55	155.42	-90.00	-4,922.49	3,201.87	4,015.22	3,762.44	252.77	15.885		
15,200.00	7,806.83	7,746.83	7,746.83	152.28	155.42	-90.00	-4,922.49	3,201.87	4,100.40	3,848.14	252.25	16.255		
15,300.00	7,806.83	7,746.83	7,746.83	154.01	155.42	-90.00	-4,922.49	3,201.87	4,186.23	3,934.49	251.75	16.629		
15,400.00	7,806.83	7,746.83	7,746.83	155.74	155.42	-90.00	-4,922.49	3,201.87	4,272.68	4,021.44	251.25	17.006		
15,500.00	7,806.83	7,746.83	7,746.83	157.47	155.42	-90.00	-4,922.49	3,201.87	4,359.71	4,108.95	250.76	17.386		
15,600.00	7,806.82	7,746.82	7,746.82	159.20	155.42	-90.00	-4,922.49	3,201.87	4,447.29	4,197.01	250.28	17.769		
15,700.00	7,806.82	7,746.82	7,746.82	160.93	155.42	-90.00	-4,922.49	3,201.87	4,535.38	4,285.56	249.82	18.155		
15,800.00	7,806.82	7,746.82	7,746.82	162.67	155.42	-90.00	-4,922.49	3,201.87	4,623.96	4,374.59	249.36	18.543		
15,900.00	7,806.82	7,746.82	7,746.82	164.40	155.42	-90.00	-4,922.49	3,201.87	4,712.99	4,464.07	248.92	18.934		
16,000.00	7,806.81	7,746.81	7,746.81	166.14	155.42	-90.00	-4,922.49	3,201.87	4,802.45	4,553.97	248.48	19.327		
16,100.00	7,806.81	7,746.81	7,746.81	167.87	155.42	-90.00	-4,922.49	3,201.87	4,892.32	4,644.26	248.06	19.722		
16,200.00	7,806.81	7,746.81	7,746.81	169.61	155.42	-90.00	-4,922.49	3,201.87	4,982.58	4,734.93	247.65	20.119		
16,300.00	7,806.81	7,746.81	7,746.81	171.35	155.42	-90.00	-4,922.49	3,201.87	5,073.20	4,825.95	247.25	20.519		
16,400.00	7,806.81	7,746.81	7,746.81	173.09	155.42	-90.00	-4,922.49	3,201.87	5,164.17	4,917.31	246.86	20.919		
16,500.00	7,806.80	7,746.80	7,746.80	174.83	155.42	-90.00	-4,922.49	3,201.87	5,255.47	5,008.99	246.48	21.322		
16,600.00	7,806.80	7,746.80	7,746.80	176.57	155.42	-90.00	-4,922.49	3,201.87	5,347.08	5,100.97	246.11	21.726		
16,700.00	7,806.80	7,746.80	7,746.80	178.31	155.42	-90.00	-4,922.49	3,201.87	5,438.98	5,193.23	245.75	22.132		
16,800.00	7,806.80	7,746.80	7,746.80	180.05	155.42	-90.00	-4,922.49	3,201.87	5,531.17	5,285.77	245.40	22.539		
16,900.00	7,806.79	7,746.79	7,746.79	181.79	155.42	-90.00	-4,922.49	3,201.87	5,623.62	5,378.56	245.06	22.948		
17,000.00	7,806.79	7,746.79	7,746.79	183.53	155.42	-90.00	-4,922.49	3,201.87	5,716.33	5,471.60	244.73	23.358		
17,100.00	7,806.79	7,746.79	7,746.79	185.27	155.42	-90.00	-4,922.49	3,201.87	5,809.28	5,564.87	244.41	23.769		
17,200.00	7,806.79	7,746.79	7,746.79	187.02	155.42	-90.00	-4,922.49	3,201.87	5,902.46	5,658.36	244.10	24.181		
17,300.00	7,806.78	7,746.78	7,746.78	188.76	155.42	-90.00	-4,922.49	3,201.87	5,995.86	5,752.06	243.79	24.594		
17,400.00	7,806.78	7,746.78	7,746.78	190.51	155.42	-90.00	-4,922.49	3,201.87	6,089.46	5,845.97	243.50	25.008		
17,500.00	7,806.78	7,746.78	7,746.78	192.25	155.42	-90.00	-4,922.49	3,201.87	6,183.27	5,940.06	243.21	25.423		
17,600.00	7,806.78	7,746.78	7,746.78	194.00	155.42	-90.00	-4,922.49	3,201.87	6,277.27	6,034.34	242.93	25.840		
17,700.00	7,806.77	7,746.77	7,746.77	195.74	155.42	-90.00	-4,922.49	3,201.87	6,371.45	6,128.79	242.66	26.257		
17,800.00	7,806.77	7,746.77	7,746.77	197.49	155.42	-90.00	-4,922.49	3,201.87	6,465.81	6,223.41	242.40	26.674		
17,900.00	7,806.77	7,746.77	7,746.77	199.24	155.42	-90.00	-4,922.49	3,201.87	6,560.34	6,318.19	242.14	27.093		
17,973.82	7,807.00	7,747.00	7,747.00	200.53	155.42	-90.00	-4,922.49	3,201.87	6,630.26	6,388.30	241.96	27.402		
17,974.53	7,807.00	7,747.00	7,747.00	200.55	155.42	-90.00	-4,922.49	3,201.87	6,630.94	6,387.33	243.61	27.220		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	123.46	-4,406.71	6,668.41	7,993.31					
100.00	100.00	22.00	22.00	0.13	0.26	123.46	-4,406.71	6,668.41	7,992.93	7,992.53	0.40	N/A		
200.00	200.00	122.00	122.00	0.49	1.70	123.46	-4,406.71	6,668.41	7,992.93	7,990.73	2.19	3,641.683		
300.00	300.00	222.00	222.00	0.85	3.95	123.46	-4,406.71	6,668.41	7,992.93	7,988.13	4.80	1,666.417		
400.00	400.00	322.00	322.00	1.21	6.02	123.46	-4,406.71	6,668.41	7,992.93	7,985.70	7.23	1,106.239		
500.00	500.00	422.00	422.00	1.57	8.05	123.46	-4,406.71	6,668.41	7,992.93	7,983.30	9.62	830.599		
600.00	600.00	522.00	522.00	1.93	10.08	123.46	-4,406.71	6,668.41	7,992.93	7,980.92	12.01	665.565		
700.00	700.00	622.00	622.00	2.29	12.10	123.46	-4,406.71	6,668.41	7,992.93	7,978.54	14.39	555.461		
800.00	800.00	722.00	722.00	2.64	14.12	123.46	-4,406.71	6,668.41	7,992.93	7,976.16	16.77	476.706		
900.00	900.00	822.00	822.00	3.00	16.14	123.46	-4,406.71	6,668.41	7,992.93	7,973.78	19.14	417.553		
1,000.00	1,000.00	922.00	922.00	3.36	18.16	123.46	-4,406.71	6,668.41	7,992.93	7,971.41	21.52	371.482		
1,100.00	1,100.00	1,022.00	1,022.00	3.72	20.17	123.46	-4,406.71	6,668.41	7,992.93	7,969.04	23.89	334.581		
1,200.00	1,199.98	1,121.98	1,121.98	4.06	22.18	-9.74	-4,406.71	6,668.41	7,991.21	7,964.96	26.25	304.468		
1,300.00	1,299.84	1,221.84	1,221.84	4.40	24.19	-9.76	-4,406.71	6,668.41	7,986.05	7,957.46	28.59	279.327		
1,400.00	1,399.45	1,321.45	1,321.45	4.74	26.20	-9.80	-4,406.71	6,668.41	7,977.46	7,946.53	30.93	257.894		
1,500.00	1,498.70	1,420.70	1,420.70	5.09	28.20	-9.86	-4,406.71	6,668.41	7,965.45	7,932.18	33.27	239.405		
1,600.00	1,597.47	1,519.47	1,519.47	5.46	30.18	-9.93	-4,406.71	6,668.41	7,950.03	7,914.43	35.60	223.292		
1,700.00	1,695.62	1,617.62	1,617.62	5.85	32.16	-10.02	-4,406.71	6,668.41	7,931.23	7,893.30	37.93	209.122		
1,800.00	1,793.06	1,715.06	1,715.06	6.27	34.12	-10.13	-4,406.71	6,668.41	7,909.07	7,868.83	40.24	196.559		
1,867.07	1,857.94	1,779.94	1,779.94	6.57	35.43	-10.21	-4,406.71	6,668.41	7,892.33	7,850.55	41.78	188.895		
1,900.00	1,889.69	1,811.69	1,811.69	6.72	36.06	-10.22	-4,406.71	6,668.41	7,883.75	7,841.21	42.54	185.336		
2,000.00	1,986.13	1,908.13	1,908.13	7.19	38.01	-10.26	-4,406.71	6,668.41	7,857.68	7,812.85	44.83	175.276		
2,100.00	2,082.57	2,004.57	2,004.57	7.68	39.95	-10.29	-4,406.71	6,668.41	7,831.62	7,784.49	47.13	166.177		
2,200.00	2,179.00	2,101.00	2,101.00	8.18	41.89	-10.32	-4,406.71	6,668.41	7,805.56	7,756.13	49.43	157.911		
2,300.00	2,275.44	2,202.56	2,197.44	8.69	43.93	-10.36	-4,406.71	6,668.41	7,779.50	7,727.66	51.84	150.071		
2,400.00	2,371.88	2,306.12	2,293.88	9.21	46.01	-10.39	-4,406.71	6,668.41	7,753.45	7,699.16	54.29	142.812		
2,500.00	2,468.31	2,409.69	2,390.31	9.74	48.09	-10.43	-4,406.71	6,668.41	7,727.40	7,670.65	56.75	136.174		
2,600.00	2,564.75	2,486.75	2,486.75	10.28	49.64	-10.47	-4,406.71	6,668.41	7,701.35	7,642.68	58.67	131.262		
2,700.00	2,661.19	2,583.19	2,583.19	10.82	51.58	-10.50	-4,406.71	6,668.41	7,675.30	7,614.32	60.99	125.849		
2,800.00	2,757.62	2,679.62	2,679.62	11.37	53.52	-10.54	-4,406.71	6,668.41	7,649.26	7,585.95	63.31	120.828		
2,900.00	2,854.06	2,776.06	2,776.06	11.92	55.46	-10.57	-4,406.71	6,668.41	7,623.22	7,557.59	65.63	116.159		
3,000.00	2,950.50	2,872.50	2,872.50	12.47	57.40	-10.61	-4,406.71	6,668.41	7,597.18	7,529.24	67.95	111.806		
3,100.00	3,046.93	2,968.93	2,968.93	13.03	59.34	-10.65	-4,406.71	6,668.41	7,571.15	7,500.88	70.27	107.738		
3,200.00	3,143.37	3,065.37	3,065.37	13.59	61.28	-10.68	-4,406.71	6,668.41	7,545.12	7,472.52	72.60	103.929		
3,300.00	3,239.81	3,161.81	3,161.81	14.15	63.22	-10.72	-4,406.71	6,668.41	7,519.09	7,444.17	74.92	100.355		
3,400.00	3,336.24	3,258.24	3,258.24	14.72	65.16	-10.76	-4,406.71	6,668.41	7,493.07	7,415.81	77.25	96.995		
3,500.00	3,432.68	3,354.68	3,354.68	15.28	67.10	-10.80	-4,406.71	6,668.41	7,467.04	7,387.46	79.58	93.830		
3,600.00	3,529.12	3,451.12	3,451.12	15.85	69.04	-10.83	-4,406.71	6,668.41	7,441.02	7,359.11	81.91	90.844		
3,700.00	3,625.55	3,547.55	3,547.55	16.42	70.98	-10.87	-4,406.71	6,668.41	7,415.01	7,330.77	84.24	88.022		
3,800.00	3,721.99	3,643.99	3,643.99	16.99	72.92	-10.91	-4,406.71	6,668.41	7,389.00	7,302.42	86.57	85.351		
3,900.00	3,818.43	3,740.43	3,740.43	17.56	74.86	-10.95	-4,406.71	6,668.41	7,362.99	7,274.08	88.90	82.820		
4,000.00	3,914.86	3,836.86	3,836.86	18.14	76.80	-10.99	-4,406.71	6,668.41	7,336.98	7,245.74	91.24	80.417		
4,100.00	4,011.30	3,933.30	3,933.30	18.71	78.74	-11.03	-4,406.71	6,668.41	7,310.98	7,217.41	93.57	78.134		
4,200.00	4,107.74	4,029.74	4,029.74	19.29	80.68	-11.07	-4,406.71	6,668.41	7,284.98	7,189.07	95.90	75.961		
4,300.00	4,204.17	4,126.17	4,126.17	19.86	82.62	-11.11	-4,406.71	6,668.41	7,258.98	7,160.74	98.24	73.891		
4,400.00	4,300.61	4,222.61	4,222.61	20.44	84.56	-11.15	-4,406.71	6,668.41	7,232.99	7,132.41	100.57	71.917		
4,500.00	4,397.05	4,319.05	4,319.05	21.02	86.50	-11.19	-4,406.71	6,668.41	7,207.00	7,104.09	102.91	70.032		
4,600.00	4,493.48	4,415.48	4,415.48	21.59	88.44	-11.23	-4,406.71	6,668.41	7,181.01	7,075.76	105.25	68.231		
4,700.00	4,589.92	4,511.92	4,511.92	22.17	90.38	-11.27	-4,406.71	6,668.41	7,155.03	7,047.44	107.58	66.507		
4,800.00	4,686.36	4,608.36	4,608.36	22.75	92.32	-11.31	-4,406.71	6,668.41	7,129.05	7,019.13	109.92	64.856		
4,900.00	4,782.79	4,704.79	4,704.79	23.33	94.25	-11.36	-4,406.71	6,668.41	7,103.07	6,990.81	112.26	63.274		
5,000.00	4,879.23	4,801.23	4,801.23	23.91	96.19	-11.40	-4,406.71	6,668.41	7,077.10	6,962.50	114.60	61.756		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,902.33	4,897.67	24.49	98.23	-11.44	-4,406.71	6,668.41	7,051.13	6,934.10	117.03	60.251		
5,200.00	5,072.10	5,005.90	4,994.10	25.07	100.31	-11.48	-4,406.71	6,668.41	7,025.16	6,905.65	119.51	58.782		
5,300.00	5,168.54	5,109.46	5,090.54	25.66	102.39	-11.53	-4,406.71	6,668.41	6,999.20	6,877.21	122.00	57.372		
5,400.00	5,264.98	5,186.98	5,186.98	26.24	103.95	-11.57	-4,406.71	6,668.41	6,973.24	6,849.29	123.96	56.256		
5,500.00	5,361.41	5,283.41	5,283.41	26.82	105.89	-11.61	-4,406.71	6,668.41	6,947.29	6,820.99	126.30	55.008		
5,600.00	5,457.85	5,379.85	5,379.85	27.40	107.83	-11.66	-4,406.71	6,668.41	6,921.34	6,792.70	128.64	53.805		
5,700.00	5,554.29	5,476.29	5,476.29	27.99	109.77	-11.70	-4,406.71	6,668.41	6,895.39	6,764.41	130.98	52.645		
5,800.00	5,650.72	5,503.00	5,503.00	28.57	110.31	-11.71	-4,406.71	6,668.41	6,869.80	6,737.85	131.95	52.064		
5,900.00	5,747.16	5,503.00	5,503.00	29.15	110.31	-11.71	-4,406.71	6,668.41	6,845.53	6,713.15	132.38	51.713		
6,000.00	5,843.60	5,503.00	5,503.00	29.74	110.31	-11.71	-4,406.71	6,668.41	6,822.63	6,689.85	132.78	51.384		
6,100.00	5,940.03	5,503.00	5,503.00	30.32	110.31	-11.71	-4,406.71	6,668.41	6,801.13	6,667.97	133.16	51.076		
6,200.00	6,036.47	5,503.00	5,503.00	30.90	110.31	-11.71	-4,406.71	6,668.41	6,781.03	6,647.52	133.51	50.790		
6,300.00	6,132.91	5,503.00	5,503.00	31.49	110.31	-11.71	-4,406.71	6,668.41	6,762.36	6,628.52	133.84	50.526		
6,400.00	6,229.34	5,503.00	5,503.00	32.07	110.31	-11.71	-4,406.71	6,668.41	6,745.11	6,610.97	134.14	50.284		
6,500.00	6,325.78	5,503.00	5,503.00	32.66	110.31	-11.71	-4,406.71	6,668.41	6,729.31	6,594.89	134.42	50.063		
6,552.14	6,376.06	5,503.00	5,503.00	32.96	110.31	-11.71	-4,406.71	6,668.41	6,721.64	6,587.09	134.55	49.956		
6,600.00	6,422.32	5,503.00	5,503.00	33.24	110.31	-11.69	-4,406.71	6,668.41	6,715.34	6,580.68	134.66	49.867		
6,700.00	6,519.60	5,503.00	5,503.00	33.78	110.31	-11.65	-4,406.71	6,668.41	6,705.78	6,570.91	134.87	49.719		
6,800.00	6,617.63	5,503.00	5,503.00	34.27	110.31	-11.63	-4,406.71	6,668.41	6,701.11	6,566.07	135.04	49.622		
6,845.15	6,662.10	5,503.00	5,503.00	34.48	110.31	-11.63	-4,406.71	6,668.41	6,700.61	6,565.50	135.11	49.595		
6,900.00	6,716.28	5,503.00	5,503.00	34.72	110.31	-11.63	-4,406.71	6,668.41	6,701.35	6,566.18	135.17	49.576		
7,000.00	6,815.45	5,503.00	5,503.00	35.13	110.31	-11.65	-4,406.71	6,668.41	6,706.49	6,571.23	135.26	49.582		
7,100.00	6,915.00	5,503.00	5,503.00	35.49	110.31	-11.69	-4,406.71	6,668.41	6,716.53	6,581.22	135.31	49.640		
7,200.00	7,014.82	5,503.00	5,503.00	35.81	110.31	-11.75	-4,406.71	6,668.41	6,731.42	6,596.11	135.31	49.748		
7,300.00	7,114.79	5,503.00	5,503.00	36.09	110.31	-11.84	-4,406.71	6,668.41	6,751.12	6,615.84	135.28	49.906		
7,319.21	7,134.00	5,503.00	5,503.00	36.14	110.31	121.33	-4,406.71	6,668.41	6,755.45	6,620.18	135.26	49.943		
7,400.00	7,214.79	5,503.00	5,503.00	36.33	110.31	121.33	-4,406.71	6,668.41	6,774.48	6,639.29	135.19	50.111		
7,419.21	7,234.00	5,503.00	5,503.00	36.37	110.31	121.33	-4,406.71	6,668.41	6,779.14	6,643.97	135.17	50.153		
7,450.00	7,264.77	5,503.00	5,503.00	36.46	110.31	-57.70	-4,406.71	6,668.41	6,786.28	6,651.14	135.14	50.217		
7,500.00	7,314.52	5,503.00	5,503.00	36.62	110.31	-56.84	-4,406.71	6,668.41	6,796.33	6,661.23	135.11	50.304		
7,550.00	7,363.66	5,503.00	5,503.00	36.81	110.31	-56.16	-4,406.71	6,668.41	6,804.39	6,669.30	135.09	50.370		
7,600.00	7,411.80	5,503.00	5,503.00	37.03	110.31	-55.66	-4,406.71	6,668.41	6,810.40	6,675.32	135.08	50.417		
7,650.00	7,458.60	5,503.00	5,503.00	37.29	110.31	-55.33	-4,406.71	6,668.41	6,814.33	6,679.24	135.10	50.441		
7,700.00	7,503.68	5,503.00	5,503.00	37.57	110.31	-55.18	-4,406.71	6,668.41	6,816.15	6,681.03	135.13	50.443		
7,750.00	7,546.72	5,503.00	5,503.00	37.89	110.31	-55.21	-4,406.71	6,668.41	6,815.85	6,680.67	135.18	50.422		
7,800.00	7,587.37	5,503.00	5,503.00	38.23	110.31	-55.41	-4,406.71	6,668.41	6,813.42	6,678.18	135.25	50.378		
7,850.00	7,625.34	5,503.00	5,503.00	38.59	110.31	-55.78	-4,406.71	6,668.41	6,808.89	6,673.55	135.34	50.308		
7,900.00	7,660.33	5,503.00	5,503.00	38.99	110.31	-56.33	-4,406.71	6,668.41	6,802.29	6,666.82	135.47	50.214		
7,950.00	7,692.07	5,503.00	5,503.00	39.40	110.31	-57.07	-4,406.71	6,668.41	6,793.65	6,658.04	135.62	50.095		
8,000.00	7,720.33	5,503.00	5,503.00	39.85	110.31	-57.98	-4,406.71	6,668.41	6,783.05	6,647.25	135.80	49.950		
8,050.00	7,744.88	5,503.00	5,503.00	40.31	110.31	-59.08	-4,406.71	6,668.41	6,770.54	6,634.53	136.01	49.781		
8,100.00	7,765.55	5,503.00	5,503.00	40.79	110.31	-60.38	-4,406.71	6,668.41	6,756.21	6,619.96	136.25	49.586		
8,150.00	7,782.18	5,503.00	5,503.00	41.30	110.31	-61.86	-4,406.71	6,668.41	6,740.17	6,603.64	136.53	49.368		
8,200.00	7,794.63	5,503.00	5,503.00	41.81	110.31	-63.54	-4,406.71	6,668.41	6,722.53	6,585.68	136.84	49.126		
8,250.00	7,802.82	5,503.00	5,503.00	42.34	110.31	-65.40	-4,406.71	6,668.41	6,703.39	6,566.21	137.19	48.864		
8,300.00	7,806.68	5,503.00	5,503.00	42.88	110.31	-67.46	-4,406.71	6,668.41	6,682.91	6,545.34	137.56	48.581		
8,319.29	7,807.00	5,503.00	5,503.00	43.09	110.31	-68.31	-4,406.71	6,668.41	6,674.67	6,536.96	137.72	48.467		
8,400.00	7,807.00	5,503.00	5,503.00	43.98	110.31	-68.31	-4,406.71	6,668.41	6,640.25	6,501.86	138.39	47.981		
8,500.00	7,807.00	5,503.00	5,503.00	45.12	110.31	-68.31	-4,406.71	6,668.41	6,598.73	6,459.42	139.31	47.368		
8,600.00	7,806.99	5,503.00	5,503.00	46.31	110.31	-68.31	-4,406.71	6,668.41	6,558.47	6,418.16	140.31	46.744		
8,700.00	7,806.99	5,503.00	5,503.00	47.53	110.31	-68.31	-4,406.71	6,668.41	6,519.49	6,378.11	141.38	46.113		
8,800.00	7,806.99	5,503.00	5,503.00	48.78	110.31	-68.31	-4,406.71	6,668.41	6,481.83	6,339.30	142.53	45.478		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	5,503.00	5,503.00	50.07	110.31	-68.31	-4,406.71	6,668.41	6,445.49	6,301.75	143.74	44.840		
9,000.00	7,806.98	5,503.00	5,503.00	51.38	110.31	-68.31	-4,406.71	6,668.41	6,410.51	6,265.49	145.02	44.204		
9,100.00	7,806.98	5,503.00	5,503.00	52.72	110.31	-68.31	-4,406.71	6,668.41	6,376.90	6,230.54	146.36	43.570		
9,200.00	7,806.98	5,503.00	5,503.00	54.09	110.31	-68.31	-4,406.71	6,668.41	6,344.70	6,196.94	147.76	42.941		
9,300.00	7,806.98	5,503.00	5,503.00	55.48	110.31	-68.31	-4,406.71	6,668.41	6,313.91	6,164.71	149.20	42.318		
9,400.00	7,806.97	5,503.00	5,503.00	56.89	110.31	-68.31	-4,406.71	6,668.41	6,284.56	6,133.87	150.69	41.705		
9,500.00	7,806.97	5,503.00	5,503.00	58.32	110.31	-68.31	-4,406.71	6,668.41	6,256.67	6,104.45	152.23	41.101		
9,600.00	7,806.97	5,503.00	5,503.00	59.77	110.31	-68.31	-4,406.71	6,668.41	6,230.27	6,076.47	153.80	40.508		
9,700.00	7,806.97	5,503.00	5,503.00	61.23	110.31	-68.31	-4,406.71	6,668.41	6,205.36	6,049.95	155.41	39.928		
9,800.00	7,806.96	5,503.00	5,503.00	62.71	110.31	-68.31	-4,406.71	6,668.41	6,181.97	6,024.91	157.06	39.361		
9,900.00	7,806.96	5,503.00	5,503.00	64.21	110.31	-68.31	-4,406.71	6,668.41	6,160.12	6,001.39	158.73	38.808		
10,000.00	7,806.96	5,503.00	5,503.00	65.72	110.31	-68.31	-4,406.71	6,668.41	6,139.82	5,979.38	160.43	38.270		
10,100.00	7,806.96	5,503.00	5,503.00	67.24	110.31	-68.31	-4,406.71	6,668.41	6,121.08	5,958.92	162.16	37.748		
10,200.00	7,806.95	5,503.00	5,503.00	68.78	110.31	-68.31	-4,406.71	6,668.41	6,103.92	5,940.02	163.90	37.242		
10,300.00	7,806.95	5,503.00	5,503.00	70.32	110.31	-68.31	-4,406.71	6,668.41	6,088.36	5,922.70	165.66	36.752		
10,400.00	7,806.95	5,503.00	5,503.00	71.88	110.31	-68.31	-4,406.71	6,668.41	6,074.41	5,906.97	167.43	36.279		
10,500.00	7,806.95	5,503.00	5,503.00	73.45	110.31	-68.31	-4,406.71	6,668.41	6,062.07	5,892.85	169.22	35.823		
10,600.00	7,806.95	5,503.00	5,503.00	75.02	110.31	-68.31	-4,406.71	6,668.41	6,051.36	5,880.34	171.02	35.385		
10,700.00	7,806.94	5,503.00	5,503.00	76.61	110.31	-68.31	-4,406.71	6,668.41	6,042.29	5,869.47	172.82	34.963		
10,800.00	7,806.94	5,503.00	5,503.00	78.20	110.31	-68.31	-4,406.71	6,668.41	6,034.86	5,860.23	174.62	34.559		
10,900.00	7,806.94	5,503.00	5,503.00	79.80	110.31	-68.31	-4,406.71	6,668.41	6,029.08	5,852.65	176.43	34.172		
11,000.00	7,806.94	5,503.00	5,503.00	81.41	110.31	-68.31	-4,406.71	6,668.41	6,024.95	5,846.71	178.24	33.803		
11,100.00	7,806.93	5,503.00	5,503.00	83.02	110.31	-68.31	-4,406.71	6,668.41	6,022.48	5,842.44	180.04	33.451		
11,198.64	7,806.93	5,503.00	5,503.00	84.62	110.31	-68.31	-4,406.71	6,668.41	6,021.68	5,839.86	181.81	33.120 CC		
11,200.00	7,806.93	5,503.00	5,503.00	84.64	110.31	-68.31	-4,406.71	6,668.41	6,021.68	5,839.84	181.84	33.115		
11,300.00	7,806.93	5,503.00	5,503.00	86.27	110.31	-68.31	-4,406.71	6,668.41	6,022.53	5,838.90	183.63	32.797 ES		
11,400.00	7,806.93	5,503.00	5,503.00	87.90	110.31	-68.31	-4,406.71	6,668.41	6,025.04	5,839.63	185.41	32.496		
11,500.00	7,806.92	5,503.00	5,503.00	89.54	110.31	-68.31	-4,406.71	6,668.41	6,029.21	5,842.03	187.18	32.211		
11,600.00	7,806.92	5,503.00	5,503.00	91.18	110.31	-68.31	-4,406.71	6,668.41	6,035.04	5,846.10	188.93	31.943		
11,700.00	7,806.92	5,503.00	5,503.00	92.83	110.31	-68.31	-4,406.71	6,668.41	6,042.51	5,851.84	190.67	31.690		
11,800.00	7,806.92	5,503.00	5,503.00	94.48	110.31	-68.31	-4,406.71	6,668.41	6,051.63	5,859.24	192.40	31.454		
11,900.00	7,806.91	5,503.00	5,503.00	96.14	110.31	-68.31	-4,406.71	6,668.41	6,062.38	5,868.29	194.10	31.234		
12,000.00	7,806.91	5,503.00	5,503.00	97.80	110.31	-68.31	-4,406.71	6,668.41	6,074.77	5,878.98	195.78	31.028		
12,100.00	7,806.91	5,503.00	5,503.00	99.46	110.31	-68.31	-4,406.71	6,668.41	6,088.76	5,891.32	197.44	30.838		
12,200.00	7,806.91	5,503.00	5,503.00	101.13	110.31	-68.31	-4,406.71	6,668.41	6,104.37	5,905.29	199.08	30.663		
12,300.00	7,806.90	5,503.00	5,503.00	102.80	110.31	-68.31	-4,406.71	6,668.41	6,121.57	5,920.87	200.69	30.502		
12,400.00	7,806.90	5,503.00	5,503.00	104.47	110.31	-68.31	-4,406.71	6,668.41	6,140.35	5,938.07	202.28	30.356		
12,500.00	7,806.90	5,503.00	5,503.00	106.15	110.31	-68.31	-4,406.71	6,668.41	6,160.69	5,956.85	203.84	30.223		
12,600.00	7,806.90	5,503.00	5,503.00	107.83	110.31	-68.31	-4,406.71	6,668.41	6,182.59	5,977.21	205.37	30.104		
12,700.00	7,806.89	5,503.00	5,503.00	109.52	110.31	-68.31	-4,406.71	6,668.41	6,206.02	5,999.14	206.88	29.998		
12,800.00	7,806.89	5,503.00	5,503.00	111.20	110.31	-68.31	-4,406.71	6,668.41	6,230.97	6,022.61	208.35	29.906		
12,900.00	7,806.89	5,503.00	5,503.00	112.89	110.31	-68.31	-4,406.71	6,668.41	6,257.41	6,047.61	209.80	29.826		
13,000.00	7,806.89	5,503.00	5,503.00	114.59	110.31	-68.31	-4,406.71	6,668.41	6,285.34	6,074.13	211.21	29.758		
13,100.00	7,806.88	5,503.00	5,503.00	116.28	110.31	-68.31	-4,406.71	6,668.41	6,314.73	6,102.13	212.60	29.703		
13,200.00	7,806.88	5,503.00	5,503.00	117.98	110.31	-68.31	-4,406.71	6,668.41	6,345.55	6,131.60	213.95	29.659		
13,300.00	7,806.88	5,503.00	5,503.00	119.68	110.31	-68.31	-4,406.71	6,668.41	6,377.80	6,162.53	215.27	29.627		
13,400.00	7,806.88	5,503.00	5,503.00	121.38	110.31	-68.31	-4,406.71	6,668.41	6,411.44	6,194.89	216.55	29.607		
13,500.00	7,806.88	5,503.00	5,503.00	123.08	110.31	-68.31	-4,406.71	6,668.41	6,446.46	6,228.65	217.81	29.597 SF		
13,600.00	7,806.87	5,503.00	5,503.00	124.79	110.31	-68.31	-4,406.71	6,668.41	6,482.83	6,263.80	219.03	29.598		
13,700.00	7,806.87	5,503.00	5,503.00	126.49	110.31	-68.31	-4,406.71	6,668.41	6,520.54	6,300.31	220.22	29.609		
13,800.00	7,806.87	5,503.00	5,503.00	128.20	110.31	-68.31	-4,406.71	6,668.41	6,559.55	6,338.17	221.38	29.630		
13,900.00	7,806.87	5,503.00	5,503.00	129.91	110.31	-68.31	-4,406.71	6,668.41	6,599.84	6,377.34	222.51	29.661		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	131.62	110.31	-68.31	-4,406.71	6,668.41	6,641.40	6,417.80	223.60	29.702		
14,100.00	7,806.86	5,503.00	5,503.00	133.34	110.31	-68.31	-4,406.71	6,668.41	6,684.20	6,459.53	224.66	29.752		
14,200.00	7,806.86	5,503.00	5,503.00	135.05	110.31	-68.31	-4,406.71	6,668.41	6,728.21	6,502.51	225.69	29.811		
14,300.00	7,806.86	5,503.00	5,503.00	136.77	110.31	-68.31	-4,406.71	6,668.41	6,773.41	6,546.71	226.69	29.879		
14,400.00	7,806.85	5,503.00	5,503.00	138.49	110.31	-68.31	-4,406.71	6,668.41	6,819.77	6,592.11	227.66	29.956		
14,500.00	7,806.85	5,503.00	5,503.00	140.21	110.31	-68.31	-4,406.71	6,668.41	6,867.28	6,638.68	228.60	30.041		
14,600.00	7,806.85	5,503.00	5,503.00	141.93	110.31	-68.31	-4,406.71	6,668.41	6,915.91	6,686.41	229.51	30.134		
14,700.00	7,806.85	5,503.00	5,503.00	143.65	110.31	-68.31	-4,406.71	6,668.41	6,965.64	6,735.25	230.39	30.235		
14,800.00	7,806.84	5,503.00	5,503.00	145.37	110.31	-68.31	-4,406.71	6,668.41	7,016.44	6,785.20	231.24	30.343		
14,900.00	7,806.84	5,503.00	5,503.00	147.10	110.31	-68.31	-4,406.71	6,668.41	7,068.29	6,836.23	232.06	30.459		
15,000.00	7,806.84	5,503.00	5,503.00	148.83	110.31	-68.31	-4,406.71	6,668.41	7,121.16	6,888.31	232.85	30.582		
15,100.00	7,806.84	5,503.00	5,503.00	150.55	110.31	-68.31	-4,406.71	6,668.41	7,175.04	6,941.42	233.62	30.713		
15,200.00	7,806.83	5,503.00	5,503.00	152.28	110.31	-68.31	-4,406.71	6,668.41	7,229.90	6,995.54	234.36	30.850		
15,300.00	7,806.83	5,503.00	5,503.00	154.01	110.31	-68.31	-4,406.71	6,668.41	7,285.72	7,050.65	235.07	30.993		
15,400.00	7,806.83	5,503.00	5,503.00	155.74	110.31	-68.31	-4,406.71	6,668.41	7,342.48	7,106.72	235.76	31.144		
15,500.00	7,806.83	5,503.00	5,503.00	157.47	110.31	-68.31	-4,406.71	6,668.41	7,400.15	7,163.73	236.43	31.300		
15,600.00	7,806.82	5,503.00	5,503.00	159.20	110.31	-68.31	-4,406.71	6,668.41	7,458.72	7,221.66	237.07	31.463		
15,700.00	7,806.82	5,503.00	5,503.00	160.93	110.31	-68.31	-4,406.71	6,668.41	7,518.17	7,280.48	237.68	31.631		
15,800.00	7,806.82	5,503.00	5,503.00	162.67	110.31	-68.31	-4,406.71	6,668.41	7,578.46	7,340.19	238.28	31.805		
15,900.00	7,806.82	5,503.00	5,503.00	164.40	110.31	-68.31	-4,406.71	6,668.41	7,639.59	7,400.74	238.85	31.985		
16,000.00	7,806.81	5,503.00	5,503.00	166.14	110.31	-68.31	-4,406.71	6,668.41	7,701.54	7,462.14	239.40	32.170		
16,100.00	7,806.81	5,503.00	5,503.00	167.87	110.31	-68.31	-4,406.71	6,668.41	7,764.27	7,524.34	239.93	32.361		
16,200.00	7,806.81	5,503.00	5,503.00	169.61	110.31	-68.31	-4,406.71	6,668.41	7,827.78	7,587.35	240.44	32.556		
16,300.00	7,806.81	5,503.00	5,503.00	171.35	110.31	-68.31	-4,406.71	6,668.41	7,892.05	7,651.12	240.93	32.757		
16,400.00	7,806.81	5,503.00	5,503.00	173.09	110.31	-68.31	-4,406.71	6,668.41	7,957.06	7,715.66	241.40	32.962		
16,500.00	7,806.80	5,503.00	5,503.00	174.83	110.31	-68.31	-4,406.71	6,668.41	8,022.78	7,780.93	241.85	33.173		
16,600.00	7,806.80	5,503.00	5,503.00	176.57	110.31	-68.31	-4,406.71	6,668.41	8,089.21	7,846.92	242.28	33.387		
16,700.00	7,806.80	5,503.00	5,503.00	178.31	110.31	-68.31	-4,406.71	6,668.41	8,156.32	7,913.62	242.70	33.606		
16,800.00	7,806.80	5,503.00	5,503.00	180.05	110.31	-68.31	-4,406.71	6,668.41	8,224.10	7,981.00	243.10	33.830		
16,900.00	7,806.79	5,503.00	5,503.00	181.79	110.31	-68.31	-4,406.71	6,668.41	8,292.53	8,049.05	243.49	34.058		
17,000.00	7,806.79	5,503.00	5,503.00	183.53	110.31	-68.31	-4,406.71	6,668.41	8,361.60	8,117.75	243.85	34.289		
17,100.00	7,806.79	5,503.00	5,503.00	185.27	110.31	-68.31	-4,406.71	6,668.41	8,431.29	8,187.08	244.21	34.525		
17,200.00	7,806.79	5,503.00	5,503.00	187.02	110.31	-68.31	-4,406.71	6,668.41	8,501.58	8,257.04	244.55	34.765		
17,300.00	7,806.78	5,503.00	5,503.00	188.76	110.31	-68.31	-4,406.71	6,668.41	8,572.47	8,327.60	244.87	35.008		
17,400.00	7,806.78	5,503.00	5,503.00	190.51	110.31	-68.31	-4,406.71	6,668.41	8,643.93	8,398.74	245.18	35.255		
17,500.00	7,806.78	5,503.00	5,503.00	192.25	110.31	-68.31	-4,406.71	6,668.41	8,715.95	8,470.47	245.48	35.506		
17,600.00	7,806.78	5,503.00	5,503.00	194.00	110.31	-68.31	-4,406.71	6,668.41	8,788.52	8,542.75	245.77	35.760		
17,700.00	7,806.77	5,503.00	5,503.00	195.74	110.31	-68.31	-4,406.71	6,668.41	8,861.62	8,615.58	246.04	36.017		
17,800.00	7,806.77	5,503.00	5,503.00	197.49	110.31	-68.31	-4,406.71	6,668.41	8,935.24	8,688.94	246.30	36.278		
17,900.00	7,806.77	5,503.00	5,503.00	199.24	110.31	-68.31	-4,406.71	6,668.41	9,009.37	8,762.82	246.55	36.542		
17,973.82	7,807.00	5,503.00	5,503.00	200.53	110.31	-68.30	-4,406.71	6,668.41	9,064.57	8,817.84	246.73	36.739		
17,974.53	7,807.00	5,503.00	5,503.00	200.55	110.31	-68.30	-4,406.71	6,668.41	9,065.10	8,817.91	247.18	36.674		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	129.69	-5,394.67	6,499.19	8,447.06					
100.00	100.00	4.00	-4.00	0.13	0.05	129.69	-5,394.67	6,499.19	8,446.42	8,446.24	0.18	N/A		
200.00	200.00	104.00	96.00	0.49	1.29	129.69	-5,394.67	6,499.19	8,446.42	8,444.64	1.78	4,737.974		
300.00	300.00	204.00	196.00	0.85	3.57	129.69	-5,394.67	6,499.19	8,446.42	8,442.00	4.42	1,909.928		
400.00	400.00	304.00	296.00	1.21	5.65	129.69	-5,394.67	6,499.19	8,446.42	8,439.56	6.86	1,231.665		
500.00	500.00	404.00	396.00	1.57	7.69	129.69	-5,394.67	6,499.19	8,446.42	8,437.16	9.26	912.351		
600.00	600.00	504.00	496.00	1.93	9.72	129.69	-5,394.67	6,499.19	8,446.42	8,434.77	11.65	725.317		
700.00	700.00	604.00	596.00	2.29	11.74	129.69	-5,394.67	6,499.19	8,446.42	8,432.39	14.03	602.187		
800.00	800.00	704.00	696.00	2.64	13.76	129.69	-5,394.67	6,499.19	8,446.42	8,430.01	16.40	514.902		
900.00	900.00	804.00	796.00	3.00	15.78	129.69	-5,394.67	6,499.19	8,446.42	8,427.64	18.78	449.769		
1,000.00	1,000.00	904.00	896.00	3.36	17.79	129.69	-5,394.67	6,499.19	8,446.42	8,425.26	21.15	399.289		
1,100.00	1,100.00	1,004.00	996.00	3.72	19.81	129.69	-5,394.67	6,499.19	8,446.42	8,422.89	23.53	359.012		
1,200.00	1,199.98	1,104.02	1,095.98	4.06	21.82	-3.49	-5,394.67	6,499.19	8,444.68	8,418.79	25.88	326.239		
1,300.00	1,299.84	1,204.16	1,195.84	4.40	23.84	-3.50	-5,394.67	6,499.19	8,439.45	8,411.22	28.23	298.903		
1,400.00	1,399.45	1,304.55	1,295.45	4.74	25.86	-3.52	-5,394.67	6,499.19	8,430.75	8,400.16	30.59	275.576		
1,500.00	1,498.70	1,405.30	1,394.70	5.09	27.89	-3.54	-5,394.67	6,499.19	8,418.59	8,385.63	32.96	255.402		
1,600.00	1,597.47	1,506.53	1,493.47	5.46	29.92	-3.56	-5,394.67	6,499.19	8,402.98	8,367.63	35.34	237.753		
1,700.00	1,695.62	1,608.38	1,591.62	5.85	31.97	-3.60	-5,394.67	6,499.19	8,383.93	8,346.19	37.74	222.154		
1,800.00	1,793.06	1,689.06	1,689.06	6.27	33.60	-3.63	-5,394.67	6,499.19	8,361.48	8,321.77	39.71	210.554		
1,867.07	1,857.94	1,753.94	1,753.94	6.57	34.90	-3.66	-5,394.67	6,499.19	8,344.53	8,303.27	41.25	202.272		
1,900.00	1,889.69	1,785.69	1,785.69	6.72	35.54	-3.67	-5,394.67	6,499.19	8,335.83	8,293.82	42.01	198.428		
2,000.00	1,986.13	1,882.13	1,882.13	7.19	37.48	-3.68	-5,394.67	6,499.19	8,309.43	8,265.13	44.30	187.578		
2,100.00	2,082.57	1,978.57	1,978.57	7.68	39.42	-3.69	-5,394.67	6,499.19	8,283.02	8,236.43	46.59	177.776		
2,200.00	2,179.00	2,075.00	2,075.00	8.18	41.36	-3.70	-5,394.67	6,499.19	8,256.61	8,207.72	48.89	168.881		
2,300.00	2,275.44	2,171.44	2,171.44	8.69	43.30	-3.72	-5,394.67	6,499.19	8,230.21	8,179.02	51.19	160.774		
2,400.00	2,371.88	2,267.88	2,267.88	9.21	45.24	-3.73	-5,394.67	6,499.19	8,203.80	8,150.31	53.49	153.357		
2,500.00	2,468.31	2,364.31	2,364.31	9.74	47.18	-3.74	-5,394.67	6,499.19	8,177.40	8,121.60	55.80	146.545		
2,600.00	2,564.75	2,460.75	2,460.75	10.28	49.12	-3.75	-5,394.67	6,499.19	8,150.99	8,092.88	58.11	140.268		
2,700.00	2,661.19	2,557.19	2,557.19	10.82	51.06	-3.76	-5,394.67	6,499.19	8,124.59	8,064.17	60.42	134.466		
2,800.00	2,757.62	2,653.62	2,653.62	11.37	53.00	-3.78	-5,394.67	6,499.19	8,098.19	8,035.45	62.73	129.089		
2,900.00	2,854.06	2,750.06	2,750.06	11.92	54.94	-3.79	-5,394.67	6,499.19	8,071.78	8,006.73	65.05	124.091		
3,000.00	2,950.50	2,846.50	2,846.50	12.47	56.88	-3.80	-5,394.67	6,499.19	8,045.38	7,978.02	67.36	119.433		
3,100.00	3,046.93	2,942.93	2,942.93	13.03	58.82	-3.81	-5,394.67	6,499.19	8,018.98	7,949.30	69.68	115.083		
3,200.00	3,143.37	3,039.37	3,039.37	13.59	60.76	-3.83	-5,394.67	6,499.19	7,992.57	7,920.58	72.00	111.012		
3,300.00	3,239.81	3,135.81	3,135.81	14.15	62.70	-3.84	-5,394.67	6,499.19	7,966.17	7,891.86	74.32	107.192		
3,400.00	3,336.24	3,232.24	3,232.24	14.72	64.64	-3.85	-5,394.67	6,499.19	7,939.77	7,863.13	76.64	103.603		
3,500.00	3,432.68	3,328.68	3,328.68	15.28	66.58	-3.86	-5,394.67	6,499.19	7,913.37	7,834.41	78.96	100.223		
3,600.00	3,529.12	3,425.12	3,425.12	15.85	68.52	-3.88	-5,394.67	6,499.19	7,886.97	7,805.69	81.28	97.036		
3,700.00	3,625.55	3,521.55	3,521.55	16.42	70.46	-3.89	-5,394.67	6,499.19	7,860.57	7,776.97	83.60	94.024		
3,800.00	3,721.99	3,617.99	3,617.99	16.99	72.40	-3.90	-5,394.67	6,499.19	7,834.17	7,748.24	85.92	91.175		
3,900.00	3,818.43	3,714.43	3,714.43	17.56	74.34	-3.92	-5,394.67	6,499.19	7,807.77	7,719.52	88.25	88.475		
4,000.00	3,914.86	3,810.86	3,810.86	18.14	76.28	-3.93	-5,394.67	6,499.19	7,781.37	7,690.80	90.57	85.913		
4,100.00	4,011.30	3,907.30	3,907.30	18.71	78.22	-3.94	-5,394.67	6,499.19	7,754.97	7,662.07	92.90	83.479		
4,200.00	4,107.74	4,003.74	4,003.74	19.29	80.16	-3.96	-5,394.67	6,499.19	7,728.57	7,633.35	95.22	81.163		
4,300.00	4,204.17	4,100.17	4,100.17	19.86	82.10	-3.97	-5,394.67	6,499.19	7,702.17	7,604.62	97.55	78.957		
4,400.00	4,300.61	4,203.39	4,196.61	20.44	84.17	-3.98	-5,394.67	6,499.19	7,675.78	7,575.76	100.01	76.749		
4,500.00	4,397.05	4,306.95	4,293.05	21.02	86.25	-4.00	-5,394.67	6,499.19	7,649.38	7,546.90	102.48	74.642		
4,600.00	4,493.48	4,389.48	4,389.48	21.59	87.91	-4.01	-5,394.67	6,499.19	7,622.98	7,518.45	104.53	72.927		
4,700.00	4,589.92	4,485.92	4,485.92	22.17	89.85	-4.03	-5,394.67	6,499.19	7,596.58	7,489.73	106.86	71.092		
4,800.00	4,686.36	4,582.36	4,582.36	22.75	91.79	-4.04	-5,394.67	6,499.19	7,570.19	7,461.00	109.18	69.334		
4,900.00	4,782.79	4,678.79	4,678.79	23.33	93.73	-4.05	-5,394.67	6,499.19	7,543.79	7,432.28	111.51	67.650		
5,000.00	4,879.23	4,775.23	4,775.23	23.91	95.67	-4.07	-5,394.67	6,499.19	7,517.40	7,403.56	113.84	66.034		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,871.67	4,871.67	24.49	97.61	-4.08	-5,394.67	6,499.19	7,491.00	7,374.83	116.17	64.483		
5,200.00	5,072.10	4,968.10	4,968.10	25.07	99.55	-4.10	-5,394.67	6,499.19	7,464.61	7,346.11	118.50	62.993		
5,300.00	5,168.54	5,064.54	5,064.54	25.66	101.49	-4.11	-5,394.67	6,499.19	7,438.21	7,317.39	120.83	61.560		
5,400.00	5,264.98	5,160.98	5,160.98	26.24	103.43	-4.13	-5,394.67	6,499.19	7,411.82	7,288.66	123.16	60.181		
5,500.00	5,361.41	5,257.41	5,257.41	26.82	105.37	-4.14	-5,394.67	6,499.19	7,385.43	7,259.94	125.49	58.854		
5,600.00	5,457.85	5,353.85	5,353.85	27.40	107.31	-4.16	-5,394.67	6,499.19	7,359.04	7,231.22	127.82	57.574		
5,700.00	5,554.29	5,450.29	5,450.29	27.99	109.25	-4.17	-5,394.67	6,499.19	7,332.64	7,202.50	130.15	56.341		
5,800.00	5,650.72	5,546.72	5,546.72	28.57	111.19	-4.19	-5,394.67	6,499.19	7,306.25	7,173.77	132.48	55.150		
5,900.00	5,747.16	5,643.16	5,643.16	29.15	113.13	-4.20	-5,394.67	6,499.19	7,279.86	7,145.05	134.81	54.001		
6,000.00	5,843.60	5,739.60	5,739.60	29.74	115.07	-4.22	-5,394.67	6,499.19	7,253.47	7,116.33	137.14	52.890		
6,100.00	5,940.03	5,836.03	5,836.03	30.32	117.00	-4.23	-5,394.67	6,499.19	7,227.08	7,087.61	139.47	51.817		
6,200.00	6,036.47	5,932.47	5,932.47	30.90	118.94	-4.25	-5,394.67	6,499.19	7,200.69	7,058.89	141.80	50.779		
6,300.00	6,132.91	6,028.91	6,028.91	31.49	120.88	-4.26	-5,394.67	6,499.19	7,174.30	7,030.16	144.14	49.774		
6,400.00	6,229.34	6,125.34	6,125.34	32.07	122.82	-4.28	-5,394.67	6,499.19	7,147.91	7,001.44	146.47	48.802		
6,500.00	6,325.78	6,221.78	6,221.78	32.66	124.76	-4.29	-5,394.67	6,499.19	7,121.52	6,972.72	148.80	47.859		
6,552.14	6,376.06	6,272.06	6,272.06	32.96	125.77	-4.30	-5,394.67	6,499.19	7,107.77	6,957.75	150.02	47.380		
6,600.00	6,422.32	6,318.32	6,318.32	33.24	126.70	-4.29	-5,394.67	6,499.19	7,095.52	6,944.39	151.13	46.948		
6,700.00	6,519.60	6,415.60	6,415.60	33.78	128.66	-4.27	-5,394.67	6,499.19	7,072.44	6,918.96	153.48	46.081		
6,800.00	6,617.63	6,513.63	6,513.63	34.27	130.63	-4.25	-5,394.67	6,499.19	7,052.75	6,896.92	155.83	45.260		
6,900.00	6,716.28	6,612.28	6,612.28	34.72	132.62	-4.24	-5,394.67	6,499.19	7,036.49	6,878.31	158.18	44.483		
7,000.00	6,815.45	6,711.45	6,711.45	35.13	134.61	-4.23	-5,394.67	6,499.19	7,023.67	6,863.13	160.54	43.751		
7,100.00	6,915.00	6,811.00	6,811.00	35.49	136.61	-4.22	-5,394.67	6,499.19	7,014.31	6,851.42	162.89	43.061		
7,200.00	7,014.82	6,910.82	6,910.82	35.81	138.62	-4.21	-5,394.67	6,499.19	7,008.43	6,843.18	165.24	42.413		
7,300.00	7,114.79	7,010.79	7,010.79	36.09	140.63	-4.21	-5,394.67	6,499.19	7,006.02	6,838.43	167.59	41.806		
7,319.21	7,134.00	7,030.00	7,030.00	36.14	141.02	128.98	-5,394.67	6,499.19	7,005.95	6,837.92	168.03	41.694		
7,400.00	7,214.79	7,110.79	7,110.79	36.33	142.64	128.98	-5,394.67	6,499.19	7,005.95	6,836.05	169.90	41.235		
7,419.21	7,234.00	7,130.00	7,130.00	36.37	143.03	128.98	-5,394.67	6,499.19	7,005.95	6,835.61	170.35	41.128		
7,450.00	7,264.77	7,160.77	7,160.77	36.46	143.65	-50.73	-5,394.67	6,499.19	7,005.43	6,834.37	171.06	40.952		
7,500.00	7,314.52	7,210.52	7,210.52	36.62	144.65	-51.00	-5,394.67	6,499.19	7,002.35	6,830.11	172.24	40.655		
7,550.00	7,363.66	7,259.66	7,259.66	36.81	145.63	-51.51	-5,394.67	6,499.19	6,996.55	6,823.13	173.42	40.346		
7,600.00	7,411.80	7,307.80	7,307.80	37.03	146.60	-52.27	-5,394.67	6,499.19	6,988.07	6,813.49	174.58	40.028		
7,650.00	7,458.60	7,354.60	7,354.60	37.29	147.54	-53.29	-5,394.67	6,499.19	6,976.99	6,801.26	175.73	39.703		
7,700.00	7,503.68	7,400.32	7,399.68	37.57	148.46	-54.56	-5,394.67	6,499.19	6,963.42	6,786.56	176.87	39.371		
7,750.00	7,546.72	7,442.72	7,442.72	37.89	149.32	-56.10	-5,394.67	6,499.19	6,947.49	6,769.54	177.94	39.043		
7,800.00	7,587.37	7,483.37	7,483.37	38.23	150.13	-57.91	-5,394.67	6,499.19	6,929.33	6,750.34	178.99	38.713		
7,850.00	7,625.34	7,521.34	7,521.34	38.59	150.90	-60.00	-5,394.67	6,499.19	6,909.12	6,729.12	180.00	38.384		
7,900.00	7,660.33	7,556.33	7,556.33	38.99	151.60	-62.35	-5,394.67	6,499.19	6,887.04	6,706.09	180.95	38.060		
7,950.00	7,692.07	7,588.07	7,588.07	39.40	152.24	-64.98	-5,394.67	6,499.19	6,863.29	6,681.44	181.85	37.742		
8,000.00	7,720.33	7,616.33	7,616.33	39.85	152.81	-67.86	-5,394.67	6,499.19	6,838.07	6,655.39	182.68	37.432		
8,050.00	7,744.88	7,640.88	7,640.88	40.31	153.30	-70.98	-5,394.67	6,499.19	6,811.61	6,628.16	183.45	37.130		
8,100.00	7,765.55	7,661.55	7,661.55	40.79	153.72	-74.30	-5,394.67	6,499.19	6,784.14	6,599.99	184.15	36.840		
8,150.00	7,782.18	7,678.18	7,678.18	41.30	154.05	-77.78	-5,394.67	6,499.19	6,755.90	6,571.12	184.78	36.561		
8,200.00	7,794.63	7,709.37	7,690.63	41.81	154.68	-81.36	-5,394.67	6,499.19	6,727.11	6,541.40	185.71	36.223		
8,250.00	7,802.82	7,701.18	7,693.82	42.34	154.51	-85.00	-5,394.67	6,499.19	6,698.02	6,512.16	185.86	36.037		
8,300.00	7,806.68	7,702.68	7,702.68	42.88	154.54	-88.62	-5,394.67	6,499.19	6,668.87	6,482.65	186.22	35.812		
8,319.29	7,807.00	7,703.00	7,703.00	43.09	154.55	-90.00	-5,394.67	6,499.19	6,657.65	6,471.30	186.35	35.726		
8,400.00	7,807.00	7,703.00	7,703.00	43.98	154.55	-90.00	-5,394.67	6,499.19	6,611.10	6,424.19	186.92	35.369		
8,500.00	7,807.00	7,703.00	7,703.00	45.12	154.55	-90.00	-5,394.67	6,499.19	6,554.36	6,366.65	187.71	34.918		
8,600.00	7,806.99	7,702.99	7,702.99	46.31	154.55	-90.00	-5,394.67	6,499.19	6,498.65	6,310.06	188.59	34.459		
8,700.00	7,806.99	7,702.99	7,702.99	47.53	154.55	-90.00	-5,394.67	6,499.19	6,444.02	6,254.45	189.57	33.993		
8,800.00	7,806.99	7,702.99	7,702.99	48.78	154.55	-90.00	-5,394.67	6,499.19	6,390.48	6,199.85	190.64	33.522		
8,900.00	7,806.99	7,702.99	7,702.99	50.07	154.55	-90.00	-5,394.67	6,499.19	6,338.07	6,146.28	191.79	33.047		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	154.55	-90.00	-5,394.67	6,499.19	6,286.82	6,093.79	193.03	32.569		
9,100.00	7,806.98	7,702.98	7,702.98	52.72	154.55	-90.00	-5,394.67	6,499.19	6,236.74	6,042.40	194.34	32.091		
9,200.00	7,806.98	7,702.98	7,702.98	54.09	154.55	-90.00	-5,394.67	6,499.19	6,187.88	5,992.15	195.73	31.614		
9,300.00	7,806.98	7,702.98	7,702.98	55.48	154.55	-90.00	-5,394.67	6,499.19	6,140.26	5,943.07	197.19	31.138		
9,400.00	7,806.97	7,702.97	7,702.97	56.89	154.55	-90.00	-5,394.67	6,499.19	6,093.91	5,895.18	198.72	30.666		
9,500.00	7,806.97	7,702.97	7,702.97	58.32	154.55	-90.00	-5,394.67	6,499.19	6,048.85	5,848.54	200.31	30.197		
9,600.00	7,806.97	7,702.97	7,702.97	59.77	154.55	-90.00	-5,394.67	6,499.19	6,005.12	5,803.16	201.96	29.734		
9,700.00	7,806.97	7,702.97	7,702.97	61.23	154.55	-90.00	-5,394.67	6,499.19	5,962.75	5,759.08	203.66	29.277		
9,800.00	7,806.96	7,702.96	7,702.96	62.71	154.55	-90.00	-5,394.67	6,499.19	5,921.76	5,716.34	205.42	28.827		
9,900.00	7,806.96	7,702.96	7,702.96	64.21	154.55	-90.00	-5,394.67	6,499.19	5,882.19	5,674.97	207.22	28.386		
10,000.00	7,806.96	7,702.96	7,702.96	65.72	154.55	-90.00	-5,394.67	6,499.19	5,844.06	5,634.99	209.07	27.952		
10,100.00	7,806.96	7,702.96	7,702.96	67.24	154.55	-90.00	-5,394.67	6,499.19	5,807.41	5,596.44	210.96	27.528		
10,200.00	7,806.95	7,702.95	7,702.95	68.78	154.55	-90.00	-5,394.67	6,499.19	5,772.25	5,559.36	212.89	27.114		
10,300.00	7,806.95	7,702.95	7,702.95	70.32	154.55	-90.00	-5,394.67	6,499.19	5,738.62	5,523.77	214.85	26.710		
10,400.00	7,806.95	7,702.95	7,702.95	71.88	154.55	-90.00	-5,394.67	6,499.19	5,706.55	5,489.70	216.84	26.317		
10,500.00	7,806.95	7,702.95	7,702.95	73.45	154.55	-90.00	-5,394.67	6,499.19	5,676.05	5,457.19	218.86	25.934		
10,600.00	7,806.95	7,702.95	7,702.95	75.02	154.55	-90.00	-5,394.67	6,499.19	5,647.16	5,426.26	220.90	25.564		
10,700.00	7,806.94	7,702.94	7,702.94	76.61	154.55	-90.00	-5,394.67	6,499.19	5,619.91	5,396.94	222.97	25.205		
10,800.00	7,806.94	7,702.94	7,702.94	78.20	154.55	-90.00	-5,394.67	6,499.19	5,594.31	5,369.25	225.05	24.858		
10,900.00	7,806.94	7,702.94	7,702.94	79.80	154.55	-90.00	-5,394.67	6,499.19	5,570.38	5,343.23	227.15	24.523		
11,000.00	7,806.94	7,702.94	7,702.94	81.41	154.55	-90.00	-5,394.67	6,499.19	5,548.16	5,318.90	229.25	24.201		
11,100.00	7,806.93	7,702.93	7,702.93	83.02	154.55	-90.00	-5,394.67	6,499.19	5,527.65	5,296.28	231.37	23.891		
11,200.00	7,806.93	7,702.93	7,702.93	84.64	154.55	-90.00	-5,394.67	6,499.19	5,508.89	5,275.40	233.49	23.594		
11,300.00	7,806.93	7,702.93	7,702.93	86.27	154.55	-90.00	-5,394.67	6,499.19	5,491.88	5,256.27	235.61	23.309		
11,400.00	7,806.93	7,702.93	7,702.93	87.90	154.55	-90.00	-5,394.67	6,499.19	5,476.64	5,238.91	237.73	23.037		
11,500.00	7,806.92	7,702.92	7,702.92	89.54	154.55	-90.00	-5,394.67	6,499.19	5,463.20	5,223.35	239.85	22.778		
11,600.00	7,806.92	7,702.92	7,702.92	91.18	154.55	-90.00	-5,394.67	6,499.19	5,451.55	5,209.60	241.96	22.531		
11,700.00	7,806.92	7,702.92	7,702.92	92.83	154.55	-90.00	-5,394.67	6,499.19	5,441.72	5,197.67	244.05	22.297		
11,800.00	7,806.92	7,702.92	7,702.92	94.48	154.55	-90.00	-5,394.67	6,499.19	5,433.71	5,187.58	246.14	22.076		
11,900.00	7,806.91	7,702.91	7,702.91	96.14	154.55	-90.00	-5,394.67	6,499.19	5,427.53	5,179.33	248.20	21.867		
12,000.00	7,806.91	7,702.91	7,702.91	97.80	154.55	-90.00	-5,394.67	6,499.19	5,423.19	5,172.94	250.25	21.671		
12,100.00	7,806.91	7,702.91	7,702.91	99.46	154.55	-90.00	-5,394.67	6,499.19	5,420.69	5,168.42	252.28	21.487		
12,185.51	7,806.91	7,702.91	7,702.91	100.89	154.55	-90.00	-5,394.67	6,499.19	5,420.02	5,166.03	253.99	21.340 CC		
12,200.00	7,806.91	7,702.91	7,702.91	101.13	154.55	-90.00	-5,394.67	6,499.19	5,420.04	5,165.76	254.28	21.315		
12,300.00	7,806.90	7,702.90	7,702.90	102.80	154.55	-90.00	-5,394.67	6,499.19	5,421.23	5,164.98	256.25	21.156 ES		
12,400.00	7,806.90	7,702.90	7,702.90	104.47	154.55	-90.00	-5,394.67	6,499.19	5,424.26	5,166.07	258.20	21.008		
12,500.00	7,806.90	7,702.90	7,702.90	106.15	154.55	-90.00	-5,394.67	6,499.19	5,429.14	5,169.03	260.11	20.873		
12,600.00	7,806.90	7,702.90	7,702.90	107.83	154.55	-90.00	-5,394.67	6,499.19	5,435.85	5,173.86	261.99	20.748		
12,700.00	7,806.89	7,702.89	7,702.89	109.52	154.55	-90.00	-5,394.67	6,499.19	5,444.38	5,180.55	263.83	20.636		
12,800.00	7,806.89	7,702.89	7,702.89	111.20	154.55	-90.00	-5,394.67	6,499.19	5,454.74	5,189.10	265.64	20.534		
12,900.00	7,806.89	7,702.89	7,702.89	112.89	154.55	-90.00	-5,394.67	6,499.19	5,466.91	5,199.51	267.41	20.444		
13,000.00	7,806.89	7,702.89	7,702.89	114.59	154.55	-90.00	-5,394.67	6,499.19	5,480.88	5,211.74	269.13	20.365		
13,100.00	7,806.88	7,702.88	7,702.88	116.28	154.55	-90.00	-5,394.67	6,499.19	5,496.63	5,225.81	270.82	20.296		
13,200.00	7,806.88	7,702.88	7,702.88	117.98	154.55	-90.00	-5,394.67	6,499.19	5,514.15	5,241.69	272.46	20.238		
13,300.00	7,806.88	7,702.88	7,702.88	119.68	154.55	-90.00	-5,394.67	6,499.19	5,533.42	5,259.36	274.06	20.191		
13,400.00	7,806.88	7,702.88	7,702.88	121.38	154.55	-90.00	-5,394.67	6,499.19	5,554.42	5,278.81	275.61	20.153		
13,500.00	7,806.88	7,702.88	7,702.88	123.08	154.55	-90.00	-5,394.67	6,499.19	5,577.14	5,300.02	277.12	20.126		
13,600.00	7,806.87	7,702.87	7,702.87	124.79	154.55	-90.00	-5,394.67	6,499.19	5,601.55	5,322.98	278.58	20.108		
13,700.00	7,806.87	7,702.87	7,702.87	126.49	154.55	-90.00	-5,394.67	6,499.19	5,627.64	5,347.64	279.99	20.099 SF		
13,800.00	7,806.87	7,702.87	7,702.87	128.20	154.55	-90.00	-5,394.67	6,499.19	5,655.37	5,374.01	281.36	20.100		
13,900.00	7,806.87	7,702.87	7,702.87	129.91	154.55	-90.00	-5,394.67	6,499.19	5,684.72	5,402.04	282.68	20.110		
14,000.00	7,806.86	7,702.86	7,702.86	131.62	154.55	-90.00	-5,394.67	6,499.19	5,715.68	5,431.72	283.96	20.129		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,702.86	7,702.86	133.34	154.55	-90.00	-5,394.67	6,499.19	5,748.21	5,463.02	285.19	20.156		
14,200.00	7,806.86	7,702.86	7,702.86	135.05	154.55	-90.00	-5,394.67	6,499.19	5,782.28	5,495.91	286.37	20.192		
14,300.00	7,806.86	7,702.86	7,702.86	136.77	154.55	-90.00	-5,394.67	6,499.19	5,817.88	5,530.37	287.50	20.236		
14,400.00	7,806.85	7,702.85	7,702.85	138.49	154.55	-90.00	-5,394.67	6,499.19	5,854.96	5,566.37	288.59	20.288		
14,500.00	7,806.85	7,702.85	7,702.85	140.21	154.55	-90.00	-5,394.67	6,499.19	5,893.51	5,603.87	289.64	20.348		
14,600.00	7,806.85	7,702.85	7,702.85	141.93	154.55	-90.00	-5,394.67	6,499.19	5,933.50	5,642.85	290.64	20.415		
14,700.00	7,806.85	7,702.85	7,702.85	143.65	154.55	-90.00	-5,394.67	6,499.19	5,974.89	5,683.28	291.60	20.490		
14,800.00	7,806.84	7,702.84	7,702.84	145.37	154.55	-90.00	-5,394.67	6,499.19	6,017.65	5,725.14	292.52	20.572		
14,900.00	7,806.84	7,702.84	7,702.84	147.10	154.55	-90.00	-5,394.67	6,499.19	6,061.77	5,768.38	293.39	20.661		
15,000.00	7,806.84	7,702.84	7,702.84	148.83	154.55	-90.00	-5,394.67	6,499.19	6,107.21	5,812.98	294.23	20.757		
15,100.00	7,806.84	7,702.84	7,702.84	150.55	154.55	-90.00	-5,394.67	6,499.19	6,153.93	5,858.91	295.02	20.859		
15,200.00	7,806.83	7,702.83	7,702.83	152.28	154.55	-90.00	-5,394.67	6,499.19	6,201.92	5,906.14	295.78	20.968		
15,300.00	7,806.83	7,702.83	7,702.83	154.01	154.55	-90.00	-5,394.67	6,499.19	6,251.13	5,954.64	296.50	21.083		
15,400.00	7,806.83	7,702.83	7,702.83	155.74	154.55	-90.00	-5,394.67	6,499.19	6,301.55	6,004.37	297.18	21.205		
15,500.00	7,806.83	7,702.83	7,702.83	157.47	154.55	-90.00	-5,394.67	6,499.19	6,353.15	6,055.32	297.83	21.332		
15,600.00	7,806.82	7,702.82	7,702.82	159.20	154.55	-90.00	-5,394.67	6,499.19	6,405.88	6,107.45	298.44	21.465		
15,700.00	7,806.82	7,702.82	7,702.82	160.93	154.55	-90.00	-5,394.67	6,499.19	6,459.74	6,160.72	299.02	21.603		
15,800.00	7,806.82	7,702.82	7,702.82	162.67	154.55	-90.00	-5,394.67	6,499.19	6,514.69	6,215.12	299.56	21.747		
15,900.00	7,806.82	7,702.82	7,702.82	164.40	154.55	-90.00	-5,394.67	6,499.19	6,570.70	6,270.62	300.08	21.897		
16,000.00	7,806.81	7,702.81	7,702.81	166.14	154.55	-90.00	-5,394.67	6,499.19	6,627.74	6,327.18	300.56	22.051		
16,100.00	7,806.81	7,702.81	7,702.81	167.87	154.55	-90.00	-5,394.67	6,499.19	6,685.79	6,384.77	301.02	22.210		
16,200.00	7,806.81	7,702.81	7,702.81	169.61	154.55	-90.00	-5,394.67	6,499.19	6,744.83	6,443.38	301.45	22.375		
16,300.00	7,806.81	7,702.81	7,702.81	171.35	154.55	-90.00	-5,394.67	6,499.19	6,804.82	6,502.97	301.85	22.544		
16,400.00	7,806.81	7,702.81	7,702.81	173.09	154.55	-90.00	-5,394.67	6,499.19	6,865.75	6,563.52	302.23	22.717		
16,500.00	7,806.80	7,702.80	7,702.80	174.83	154.55	-90.00	-5,394.67	6,499.19	6,927.59	6,625.00	302.58	22.895		
16,600.00	7,806.80	7,702.80	7,702.80	176.57	154.55	-90.00	-5,394.67	6,499.19	6,990.30	6,687.39	302.91	23.077		
16,700.00	7,806.80	7,702.80	7,702.80	178.31	154.55	-90.00	-5,394.67	6,499.19	7,053.88	6,750.66	303.22	23.263		
16,800.00	7,806.80	7,702.80	7,702.80	180.05	154.55	-90.00	-5,394.67	6,499.19	7,118.30	6,814.79	303.50	23.454		
16,900.00	7,806.79	7,702.79	7,702.79	181.79	154.55	-90.00	-5,394.67	6,499.19	7,183.52	6,879.76	303.77	23.648		
17,000.00	7,806.79	7,702.79	7,702.79	183.53	154.55	-90.00	-5,394.67	6,499.19	7,249.55	6,945.54	304.01	23.846		
17,100.00	7,806.79	7,702.79	7,702.79	185.27	154.55	-90.00	-5,394.67	6,499.19	7,316.34	7,012.10	304.24	24.048		
17,200.00	7,806.79	7,702.79	7,702.79	187.02	154.55	-90.00	-5,394.67	6,499.19	7,383.88	7,079.44	304.44	24.254		
17,300.00	7,806.78	7,702.78	7,702.78	188.76	154.55	-90.00	-5,394.67	6,499.19	7,452.16	7,147.52	304.63	24.463		
17,400.00	7,806.78	7,702.78	7,702.78	190.51	154.55	-90.00	-5,394.67	6,499.19	7,521.14	7,216.33	304.81	24.675		
17,500.00	7,806.78	7,702.78	7,702.78	192.25	154.55	-90.00	-5,394.67	6,499.19	7,590.81	7,285.85	304.96	24.891		
17,600.00	7,806.78	7,702.78	7,702.78	194.00	154.55	-90.00	-5,394.67	6,499.19	7,661.16	7,356.05	305.11	25.110		
17,700.00	7,806.77	7,702.77	7,702.77	195.74	154.54	-90.00	-5,394.67	6,499.19	7,732.15	7,426.92	305.24	25.332		
17,800.00	7,806.77	7,702.77	7,702.77	197.49	154.54	-90.00	-5,394.67	6,499.19	7,803.79	7,498.44	305.35	25.557		
17,900.00	7,806.77	7,702.77	7,702.77	199.24	154.54	-90.00	-5,394.67	6,499.19	7,876.04	7,570.59	305.45	25.785		
17,973.82	7,807.00	7,703.00	7,703.00	200.53	154.55	-90.00	-5,394.67	6,499.19	7,929.87	7,624.34	305.53	25.955		
17,974.53	7,807.00	7,703.00	7,703.00	200.55	154.55	-90.00	-5,394.67	6,499.19	7,930.39	7,624.24	306.14	25.904		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	107.36	-1,737.59	5,557.10	5,822.78					
100.00	100.00	35.00	35.00	0.13	0.42	107.36	-1,737.59	5,557.10	5,822.42	5,821.87	0.55	N/A		
200.00	200.00	135.00	135.00	0.49	2.00	107.36	-1,737.59	5,557.10	5,822.42	5,819.93	2.49	2,335.977		
300.00	300.00	235.00	235.00	0.85	4.22	107.36	-1,737.59	5,557.10	5,822.42	5,817.35	5.07	1,149.164		
400.00	400.00	335.00	335.00	1.21	6.28	107.36	-1,737.59	5,557.10	5,822.42	5,814.93	7.49	777.276		
500.00	500.00	435.00	435.00	1.57	8.32	107.36	-1,737.59	5,557.10	5,822.42	5,812.53	9.89	588.905		
600.00	600.00	535.00	535.00	1.93	10.35	107.36	-1,737.59	5,557.10	5,822.42	5,810.15	12.27	474.440		
700.00	700.00	635.00	635.00	2.29	12.37	107.36	-1,737.59	5,557.10	5,822.42	5,807.77	14.65	397.374		
800.00	800.00	735.00	735.00	2.64	14.39	107.36	-1,737.59	5,557.10	5,822.42	5,805.39	17.03	341.907		
900.00	900.00	835.00	835.00	3.00	16.40	107.36	-1,737.59	5,557.10	5,822.42	5,803.02	19.40	300.057		
1,000.00	1,000.00	935.00	935.00	3.36	18.42	107.36	-1,737.59	5,557.10	5,822.42	5,800.64	21.78	267.351		
1,100.00	1,100.00	1,035.00	1,035.00	3.72	20.43	107.36	-1,737.59	5,557.10	5,822.42	5,798.27	24.15	241.082		
1,200.00	1,199.98	1,134.98	1,134.98	4.06	22.45	-25.84	-1,737.59	5,557.10	5,820.85	5,794.34	26.51	219.588		
1,300.00	1,299.84	1,234.84	1,234.84	4.40	24.46	-25.91	-1,737.59	5,557.10	5,816.14	5,787.29	28.85	201.589		
1,400.00	1,399.45	1,334.45	1,334.45	4.74	26.46	-26.01	-1,737.59	5,557.10	5,808.30	5,777.10	31.19	186.196		
1,500.00	1,498.70	1,433.70	1,433.70	5.09	28.46	-26.16	-1,737.59	5,557.10	5,797.34	5,763.80	33.53	172.876		
1,600.00	1,597.47	1,532.47	1,532.47	5.46	30.45	-26.36	-1,737.59	5,557.10	5,783.27	5,747.40	35.87	161.227		
1,700.00	1,695.62	1,630.62	1,630.62	5.85	32.42	-26.60	-1,737.59	5,557.10	5,766.13	5,727.93	38.20	150.946		
1,800.00	1,793.06	1,728.06	1,728.06	6.27	34.38	-26.88	-1,737.59	5,557.10	5,745.94	5,705.42	40.52	141.796		
1,867.07	1,857.94	1,807.06	1,792.94	6.57	35.97	-27.10	-1,737.59	5,557.10	5,730.70	5,688.34	42.36	135.282		
1,900.00	1,889.69	1,824.69	1,824.69	6.72	36.33	-27.14	-1,737.59	5,557.10	5,722.89	5,680.05	42.84	133.590		
2,000.00	1,986.13	1,921.13	1,921.13	7.19	38.27	-27.26	-1,737.59	5,557.10	5,699.19	5,654.03	45.15	126.217		
2,100.00	2,082.57	2,017.57	2,017.57	7.68	40.21	-27.38	-1,737.59	5,557.10	5,675.51	5,628.03	47.48	119.543		
2,200.00	2,179.00	2,114.00	2,114.00	8.18	42.15	-27.51	-1,737.59	5,557.10	5,651.85	5,602.04	49.81	113.477		
2,300.00	2,275.44	2,210.44	2,210.44	8.69	44.09	-27.63	-1,737.59	5,557.10	5,628.22	5,576.08	52.14	107.941		
2,400.00	2,371.88	2,306.88	2,306.88	9.21	46.03	-27.75	-1,737.59	5,557.10	5,604.61	5,550.13	54.48	102.870		
2,500.00	2,468.31	2,403.31	2,403.31	9.74	47.97	-27.88	-1,737.59	5,557.10	5,581.03	5,524.20	56.83	98.209		
2,600.00	2,564.75	2,500.25	2,499.75	10.28	49.92	-28.01	-1,737.59	5,557.10	5,557.48	5,498.29	59.19	93.896		
2,700.00	2,661.19	2,603.81	2,596.19	10.82	52.00	-28.13	-1,737.59	5,557.10	5,533.95	5,472.26	61.68	89.714		
2,800.00	2,757.62	2,707.38	2,692.62	11.37	54.08	-28.26	-1,737.59	5,557.10	5,510.45	5,446.26	64.19	85.852		
2,900.00	2,854.06	2,789.06	2,789.06	11.92	55.73	-28.39	-1,737.59	5,557.10	5,486.97	5,420.72	66.25	82.824		
3,000.00	2,950.50	2,885.50	2,885.50	12.47	57.67	-28.52	-1,737.59	5,557.10	5,463.53	5,394.91	68.61	79.630		
3,100.00	3,046.93	2,981.93	2,981.93	13.03	59.61	-28.65	-1,737.59	5,557.10	5,440.11	5,369.13	70.98	76.645		
3,200.00	3,143.37	3,078.37	3,078.37	13.59	61.54	-28.79	-1,737.59	5,557.10	5,416.71	5,343.37	73.35	73.852		
3,300.00	3,239.81	3,174.81	3,174.81	14.15	63.48	-28.92	-1,737.59	5,557.10	5,393.35	5,317.63	75.72	71.231		
3,400.00	3,336.24	3,271.24	3,271.24	14.72	65.42	-29.06	-1,737.59	5,557.10	5,370.02	5,291.93	78.09	68.767		
3,500.00	3,432.68	3,367.68	3,367.68	15.28	67.36	-29.19	-1,737.59	5,557.10	5,346.71	5,266.24	80.47	66.448		
3,600.00	3,529.12	3,464.12	3,464.12	15.85	69.30	-29.33	-1,737.59	5,557.10	5,323.43	5,240.59	82.84	64.260		
3,700.00	3,625.55	3,560.55	3,560.55	16.42	71.24	-29.47	-1,737.59	5,557.10	5,300.19	5,214.96	85.22	62.193		
3,800.00	3,721.99	3,656.99	3,656.99	16.99	73.18	-29.61	-1,737.59	5,557.10	5,276.97	5,189.37	87.60	60.238		
3,900.00	3,818.43	3,753.43	3,753.43	17.56	75.12	-29.75	-1,737.59	5,557.10	5,253.78	5,163.80	89.99	58.385		
4,000.00	3,914.86	3,849.86	3,849.86	18.14	77.06	-29.89	-1,737.59	5,557.10	5,230.63	5,138.26	92.37	56.627		
4,100.00	4,011.30	3,946.30	3,946.30	18.71	79.00	-30.04	-1,737.59	5,557.10	5,207.51	5,112.75	94.76	54.957		
4,200.00	4,107.74	4,042.74	4,042.74	19.29	80.94	-30.18	-1,737.59	5,557.10	5,184.42	5,087.27	97.14	53.368		
4,300.00	4,204.17	4,139.17	4,139.17	19.86	82.88	-30.33	-1,737.59	5,557.10	5,161.36	5,061.82	99.53	51.855		
4,400.00	4,300.61	4,235.61	4,235.61	20.44	84.82	-30.48	-1,737.59	5,557.10	5,138.33	5,036.40	101.93	50.412		
4,500.00	4,397.05	4,332.05	4,332.05	21.02	86.76	-30.63	-1,737.59	5,557.10	5,115.34	5,011.02	104.32	49.036		
4,600.00	4,493.48	4,428.48	4,428.48	21.59	88.70	-30.78	-1,737.59	5,557.10	5,092.38	4,985.66	106.71	47.720		
4,700.00	4,589.92	4,524.92	4,524.92	22.17	90.64	-30.93	-1,737.59	5,557.10	5,069.45	4,960.34	109.11	46.462		
4,800.00	4,686.36	4,621.36	4,621.36	22.75	92.58	-31.08	-1,737.59	5,557.10	5,046.56	4,935.05	111.51	45.258		
4,900.00	4,782.79	4,717.79	4,717.79	23.33	94.52	-31.23	-1,737.59	5,557.10	5,023.71	4,909.80	113.91	44.104		
5,000.00	4,879.23	4,814.23	4,814.23	23.91	96.46	-31.39	-1,737.59	5,557.10	5,000.89	4,884.58	116.31	42.997		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,910.67	4,910.67	24.49	98.40	-31.55	-1,737.59	5,557.10	4,978.10	4,859.39	118.71	41.935		
5,200.00	5,072.10	5,007.10	5,007.10	25.07	100.33	-31.71	-1,737.59	5,557.10	4,955.35	4,834.24	121.11	40.915		
5,300.00	5,168.54	5,103.54	5,103.54	25.66	102.27	-31.87	-1,737.59	5,557.10	4,932.64	4,809.12	123.52	39.934		
5,400.00	5,264.98	5,145.00	5,145.00	26.24	103.10	-31.94	-1,737.59	5,557.10	4,910.28	4,785.44	124.84	39.333		
5,500.00	5,361.41	5,145.00	5,145.00	26.82	103.10	-31.94	-1,737.59	5,557.10	4,889.68	4,764.37	125.31	39.019		
5,600.00	5,457.85	5,145.00	5,145.00	27.40	103.10	-31.94	-1,737.59	5,557.10	4,871.05	4,745.30	125.74	38.738		
5,700.00	5,554.29	5,145.00	5,145.00	27.99	103.10	-31.94	-1,737.59	5,557.10	4,854.41	4,728.28	126.13	38.488		
5,800.00	5,650.72	5,145.00	5,145.00	28.57	103.10	-31.94	-1,737.59	5,557.10	4,839.77	4,713.31	126.46	38.270		
5,900.00	5,747.16	5,145.00	5,145.00	29.15	103.10	-31.94	-1,737.59	5,557.10	4,827.17	4,700.42	126.75	38.085		
6,000.00	5,843.60	5,145.00	5,145.00	29.74	103.10	-31.94	-1,737.59	5,557.10	4,816.60	4,689.62	126.98	37.931		
6,100.00	5,940.03	5,145.00	5,145.00	30.32	103.10	-31.94	-1,737.59	5,557.10	4,808.10	4,680.93	127.17	37.809		
6,200.00	6,036.47	5,145.00	5,145.00	30.90	103.10	-31.94	-1,737.59	5,557.10	4,801.66	4,674.36	127.30	37.719		
6,300.00	6,132.91	5,145.00	5,145.00	31.49	103.10	-31.94	-1,737.59	5,557.10	4,797.30	4,669.92	127.38	37.660		
6,400.00	6,229.34	5,145.00	5,145.00	32.07	103.10	-31.94	-1,737.59	5,557.10	4,795.02	4,667.61	127.41	37.634		
6,459.30	6,286.53	5,145.00	5,145.00	32.42	103.10	-31.94	-1,737.59	5,557.10	4,794.65	4,667.25	127.40	37.634 CC, ES		
6,500.00	6,325.78	5,145.00	5,145.00	32.66	103.10	-31.94	-1,737.59	5,557.10	4,794.83	4,667.44	127.39	37.640		
6,552.14	6,376.06	5,145.00	5,145.00	32.96	103.10	-31.94	-1,737.59	5,557.10	4,795.55	4,668.20	127.35	37.655		
6,600.00	6,422.32	5,145.00	5,145.00	33.24	103.10	-31.95	-1,737.59	5,557.10	4,797.06	4,669.75	127.31	37.681		
6,700.00	6,519.60	5,145.00	5,145.00	33.78	103.10	-32.02	-1,737.59	5,557.10	4,803.92	4,676.77	127.15	37.780		
6,800.00	6,617.63	5,145.00	5,145.00	34.27	103.10	-32.15	-1,737.59	5,557.10	4,815.80	4,688.87	126.92	37.942		
6,900.00	6,716.28	5,145.00	5,145.00	34.72	103.10	-32.33	-1,737.59	5,557.10	4,832.63	4,706.00	126.62	38.166		
7,000.00	6,815.45	5,145.00	5,145.00	35.13	103.10	-32.57	-1,737.59	5,557.10	4,854.34	4,728.09	126.25	38.450		
7,100.00	6,915.00	5,145.00	5,145.00	35.49	103.10	-32.87	-1,737.59	5,557.10	4,880.85	4,755.04	125.81	38.794		
7,200.00	7,014.82	5,145.00	5,145.00	35.81	103.10	-33.23	-1,737.59	5,557.10	4,912.04	4,786.72	125.32	39.197		
7,300.00	7,114.79	5,145.00	5,145.00	36.09	103.10	-33.65	-1,737.59	5,557.10	4,947.79	4,823.02	124.77	39.656		
7,319.21	7,134.00	5,145.00	5,145.00	36.14	103.10	99.45	-1,737.59	5,557.10	4,955.17	4,830.51	124.66	39.751		
7,400.00	7,214.79	5,145.00	5,145.00	36.33	103.10	99.45	-1,737.59	5,557.10	4,987.09	4,862.93	124.16	40.167		
7,419.21	7,234.00	5,145.00	5,145.00	36.37	103.10	99.45	-1,737.59	5,557.10	4,994.85	4,870.81	124.04	40.269		
7,450.00	7,264.77	5,145.00	5,145.00	36.46	103.10	-78.87	-1,737.59	5,557.10	5,007.27	4,883.42	123.85	40.430		
7,500.00	7,314.52	5,145.00	5,145.00	36.62	103.10	-76.76	-1,737.59	5,557.10	5,027.14	4,903.57	123.57	40.681		
7,550.00	7,363.66	5,145.00	5,145.00	36.81	103.10	-74.72	-1,737.59	5,557.10	5,046.51	4,923.19	123.33	40.920		
7,600.00	7,411.80	5,145.00	5,145.00	37.03	103.10	-72.78	-1,737.59	5,557.10	5,065.25	4,942.13	123.12	41.142		
7,650.00	7,458.60	5,145.00	5,145.00	37.29	103.10	-70.95	-1,737.59	5,557.10	5,083.21	4,960.27	122.94	41.346		
7,700.00	7,503.68	5,145.00	5,145.00	37.57	103.10	-69.25	-1,737.59	5,557.10	5,100.27	4,977.46	122.81	41.530		
7,750.00	7,546.72	5,145.00	5,145.00	37.89	103.10	-67.67	-1,737.59	5,557.10	5,116.31	4,993.58	122.72	41.690		
7,800.00	7,587.37	5,145.00	5,145.00	38.23	103.10	-66.23	-1,737.59	5,557.10	5,131.21	5,008.53	122.68	41.825		
7,850.00	7,625.34	5,145.00	5,145.00	38.59	103.10	-64.94	-1,737.59	5,557.10	5,144.88	5,022.18	122.70	41.931		
7,900.00	7,660.33	5,145.00	5,145.00	38.99	103.10	-63.79	-1,737.59	5,557.10	5,157.21	5,034.45	122.77	42.008		
7,950.00	7,692.07	5,145.00	5,145.00	39.40	103.10	-62.79	-1,737.59	5,557.10	5,168.14	5,045.24	122.89	42.053		
8,000.00	7,720.33	5,145.00	5,145.00	39.85	103.10	-61.94	-1,737.59	5,557.10	5,177.57	5,054.49	123.08	42.066		
8,050.00	7,744.88	5,145.00	5,145.00	40.31	103.10	-61.24	-1,737.59	5,557.10	5,185.45	5,062.12	123.33	42.045		
8,100.00	7,765.55	5,145.00	5,145.00	40.79	103.10	-60.69	-1,737.59	5,557.10	5,191.73	5,068.09	123.64	41.990		
8,150.00	7,782.18	5,145.00	5,145.00	41.30	103.10	-60.28	-1,737.59	5,557.10	5,196.36	5,072.34	124.02	41.901		
8,200.00	7,794.63	5,145.00	5,145.00	41.81	103.10	-60.03	-1,737.59	5,557.10	5,199.31	5,074.86	124.45	41.778		
8,250.00	7,802.82	5,145.00	5,145.00	42.34	103.10	-59.92	-1,737.59	5,557.10	5,200.57	5,075.63	124.94	41.623		
8,300.00	7,806.68	5,145.00	5,145.00	42.88	103.10	-59.96	-1,737.59	5,557.10	5,200.12	5,074.63	125.49	41.437		
8,319.29	7,807.00	5,145.00	5,145.00	43.09	103.10	-60.01	-1,737.59	5,557.10	5,199.49	5,073.77	125.72	41.358		
8,400.00	7,807.00	5,145.00	5,145.00	43.98	103.10	-60.01	-1,737.59	5,557.10	5,196.96	5,070.25	126.71	41.016		
8,500.00	7,807.00	5,145.00	5,145.00	45.12	103.10	-60.01	-1,737.59	5,557.10	5,195.55	5,067.57	127.98	40.596		
8,522.91	7,807.00	5,145.00	5,145.00	45.39	103.10	-60.01	-1,737.59	5,557.10	5,195.50	5,067.22	128.28	40.500		
8,600.00	7,806.99	5,145.00	5,145.00	46.31	103.10	-60.01	-1,737.59	5,557.10	5,196.08	5,066.77	129.31	40.183		
8,700.00	7,806.99	5,145.00	5,145.00	47.53	103.10	-60.01	-1,737.59	5,557.10	5,198.52	5,067.84	130.68	39.780		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	48.78	103.10	-60.01	-1,737.59	5,557.10	5,202.89	5,070.79	132.10	39.387		
8,900.00	7,806.99	5,145.00	5,145.00	50.07	103.10	-60.01	-1,737.59	5,557.10	5,209.17	5,075.63	133.54	39.008		
9,000.00	7,806.98	5,145.00	5,145.00	51.38	103.10	-60.01	-1,737.59	5,557.10	5,217.36	5,082.35	135.01	38.643		
9,100.00	7,806.98	5,145.00	5,145.00	52.72	103.10	-60.01	-1,737.59	5,557.10	5,227.46	5,090.95	136.51	38.293		
9,200.00	7,806.98	5,145.00	5,145.00	54.09	103.10	-60.01	-1,737.59	5,557.10	5,239.44	5,101.41	138.02	37.960		
9,300.00	7,806.98	5,145.00	5,145.00	55.48	103.10	-60.01	-1,737.59	5,557.10	5,253.30	5,113.75	139.55	37.645		
9,400.00	7,806.97	5,145.00	5,145.00	56.89	103.10	-60.01	-1,737.59	5,557.10	5,269.02	5,127.93	141.08	37.347		
9,500.00	7,806.97	5,145.00	5,145.00	58.32	103.10	-60.01	-1,737.59	5,557.10	5,286.58	5,143.96	142.62	37.067		
9,600.00	7,806.97	5,145.00	5,145.00	59.77	103.10	-60.01	-1,737.59	5,557.10	5,305.98	5,161.81	144.16	36.805		
9,700.00	7,806.97	5,145.00	5,145.00	61.23	103.10	-60.01	-1,737.59	5,557.10	5,327.18	5,181.47	145.70	36.562		
9,800.00	7,806.96	5,145.00	5,145.00	62.71	103.10	-60.01	-1,737.59	5,557.10	5,350.16	5,202.93	147.23	36.338		
9,900.00	7,806.96	5,145.00	5,145.00	64.21	103.10	-60.01	-1,737.59	5,557.10	5,374.91	5,226.15	148.76	36.132		
10,000.00	7,806.96	5,145.00	5,145.00	65.72	103.10	-60.01	-1,737.59	5,557.10	5,401.39	5,251.12	150.27	35.944		
10,100.00	7,806.96	5,145.00	5,145.00	67.24	103.10	-60.01	-1,737.59	5,557.10	5,429.59	5,277.82	151.77	35.775		
10,200.00	7,806.95	5,145.00	5,145.00	68.78	103.10	-60.01	-1,737.59	5,557.10	5,459.48	5,306.22	153.26	35.623		
10,300.00	7,806.95	5,145.00	5,145.00	70.32	103.10	-60.01	-1,737.59	5,557.10	5,491.02	5,336.30	154.72	35.490		
10,400.00	7,806.95	5,145.00	5,145.00	71.88	103.10	-60.01	-1,737.59	5,557.10	5,524.20	5,368.03	156.17	35.373		
10,500.00	7,806.95	5,145.00	5,145.00	73.45	103.10	-60.01	-1,737.59	5,557.10	5,558.97	5,401.38	157.60	35.274		
10,600.00	7,806.95	5,145.00	5,145.00	75.02	103.10	-60.01	-1,737.59	5,557.10	5,595.32	5,436.32	159.00	35.191		
10,700.00	7,806.94	5,145.00	5,145.00	76.61	103.10	-60.01	-1,737.59	5,557.10	5,633.20	5,472.82	160.38	35.124		
10,800.00	7,806.94	5,145.00	5,145.00	78.20	103.10	-60.01	-1,737.59	5,557.10	5,672.60	5,510.87	161.74	35.073		
10,900.00	7,806.94	5,145.00	5,145.00	79.80	103.10	-60.01	-1,737.59	5,557.10	5,713.48	5,550.41	163.07	35.037		
11,000.00	7,806.94	5,145.00	5,145.00	81.41	103.10	-60.01	-1,737.59	5,557.10	5,755.80	5,591.43	164.37	35.017		
11,100.00	7,806.93	5,145.00	5,145.00	83.02	103.10	-60.01	-1,737.59	5,557.10	5,799.54	5,633.89	165.65	35.011 SF		
11,200.00	7,806.93	5,145.00	5,145.00	84.64	103.10	-60.01	-1,737.59	5,557.10	5,844.66	5,677.76	166.90	35.019		
11,300.00	7,806.93	5,145.00	5,145.00	86.27	103.10	-60.01	-1,737.59	5,557.10	5,891.14	5,723.02	168.12	35.041		
11,400.00	7,806.93	5,145.00	5,145.00	87.90	103.10	-60.01	-1,737.59	5,557.10	5,938.93	5,769.62	169.32	35.076		
11,500.00	7,806.92	5,145.00	5,145.00	89.54	103.10	-60.01	-1,737.59	5,557.10	5,988.02	5,817.53	170.48	35.124		
11,600.00	7,806.92	5,145.00	5,145.00	91.18	103.10	-60.01	-1,737.59	5,557.10	6,038.36	5,866.74	171.62	35.184		
11,700.00	7,806.92	5,145.00	5,145.00	92.83	103.10	-60.01	-1,737.59	5,557.10	6,089.93	5,917.19	172.73	35.257		
11,800.00	7,806.92	5,145.00	5,145.00	94.48	103.10	-60.01	-1,737.59	5,557.10	6,142.69	5,968.88	173.81	35.341		
11,900.00	7,806.91	5,145.00	5,145.00	96.14	103.10	-60.01	-1,737.59	5,557.10	6,196.61	6,021.75	174.86	35.437		
12,000.00	7,806.91	5,145.00	5,145.00	97.80	103.10	-60.01	-1,737.59	5,557.10	6,251.68	6,075.79	175.89	35.543		
12,100.00	7,806.91	5,145.00	5,145.00	99.46	103.10	-60.01	-1,737.59	5,557.10	6,307.84	6,130.95	176.89	35.660		
12,200.00	7,806.91	5,145.00	5,145.00	101.13	103.10	-60.01	-1,737.59	5,557.10	6,365.08	6,187.22	177.86	35.787		
12,300.00	7,806.90	5,145.00	5,145.00	102.80	103.10	-60.01	-1,737.59	5,557.10	6,423.37	6,244.57	178.80	35.925		
12,400.00	7,806.90	5,145.00	5,145.00	104.47	103.10	-60.01	-1,737.59	5,557.10	6,482.68	6,302.96	179.72	36.071		
12,500.00	7,806.90	5,145.00	5,145.00	106.15	103.10	-60.01	-1,737.59	5,557.10	6,542.98	6,362.37	180.61	36.227		
12,600.00	7,806.90	5,145.00	5,145.00	107.83	103.10	-60.01	-1,737.59	5,557.10	6,604.24	6,422.76	181.48	36.392		
12,700.00	7,806.89	5,145.00	5,145.00	109.52	103.10	-60.01	-1,737.59	5,557.10	6,666.44	6,484.12	182.32	36.565		
12,800.00	7,806.89	5,145.00	5,145.00	111.20	103.10	-60.01	-1,737.59	5,557.10	6,729.55	6,546.41	183.13	36.747		
12,900.00	7,806.89	5,145.00	5,145.00	112.89	103.10	-60.01	-1,737.59	5,557.10	6,793.54	6,609.62	183.92	36.937		
13,000.00	7,806.89	5,145.00	5,145.00	114.59	103.10	-60.01	-1,737.59	5,557.10	6,858.40	6,673.71	184.69	37.134		
13,100.00	7,806.88	5,145.00	5,145.00	116.28	103.10	-60.01	-1,737.59	5,557.10	6,924.09	6,738.66	185.44	37.339		
13,200.00	7,806.88	5,145.00	5,145.00	117.98	103.10	-60.01	-1,737.59	5,557.10	6,990.60	6,804.44	186.16	37.552		
13,300.00	7,806.88	5,145.00	5,145.00	119.68	103.10	-60.01	-1,737.59	5,557.10	7,057.90	6,871.03	186.86	37.771		
13,400.00	7,806.88	5,145.00	5,145.00	121.38	103.10	-60.01	-1,737.59	5,557.10	7,125.96	6,938.42	187.54	37.997		
13,500.00	7,806.88	5,145.00	5,145.00	123.08	103.10	-60.01	-1,737.59	5,557.10	7,194.77	7,006.57	188.20	38.229		
13,600.00	7,806.87	5,145.00	5,145.00	124.79	103.10	-60.01	-1,737.59	5,557.10	7,264.31	7,075.47	188.84	38.468		
13,700.00	7,806.87	5,145.00	5,145.00	126.49	103.10	-60.01	-1,737.59	5,557.10	7,334.55	7,145.09	189.46	38.713		
13,800.00	7,806.87	5,145.00	5,145.00	128.20	103.10	-60.01	-1,737.59	5,557.10	7,405.47	7,215.41	190.06	38.964		
13,900.00	7,806.87	5,145.00	5,145.00	129.91	103.10	-60.01	-1,737.59	5,557.10	7,477.06	7,286.42	190.64	39.220		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 NIVEN GAYLE B 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	
14,000.00	7,806.86	5,145.00	5,145.00	131.62	103.10	-60.01	-1,737.59	5,557.10	7,549.29	7,358.09	191.21	39.482	
14,100.00	7,806.86	5,145.00	5,145.00	133.34	103.10	-60.01	-1,737.59	5,557.10	7,622.15	7,430.40	191.75	39.750	
14,200.00	7,806.86	5,145.00	5,145.00	135.05	103.10	-60.01	-1,737.59	5,557.10	7,695.63	7,503.34	192.29	40.022	
14,300.00	7,806.86	5,145.00	5,145.00	136.77	103.10	-60.01	-1,737.59	5,557.10	7,769.69	7,576.89	192.80	40.299	
14,400.00	7,806.85	5,145.00	5,145.00	138.49	103.10	-60.01	-1,737.59	5,557.10	7,844.33	7,651.03	193.30	40.581	
14,500.00	7,806.85	5,145.00	5,145.00	140.21	103.10	-60.01	-1,737.59	5,557.10	7,919.53	7,725.75	193.78	40.868	
14,600.00	7,806.85	5,145.00	5,145.00	141.93	103.10	-60.01	-1,737.59	5,557.10	7,995.27	7,801.02	194.25	41.160	
14,700.00	7,806.85	5,145.00	5,145.00	143.65	103.10	-60.01	-1,737.59	5,557.10	8,071.54	7,876.84	194.70	41.455	
14,800.00	7,806.84	5,145.00	5,145.00	145.37	103.10	-60.01	-1,737.59	5,557.10	8,148.32	7,953.18	195.15	41.755	
14,900.00	7,806.84	5,145.00	5,145.00	147.10	103.10	-60.01	-1,737.59	5,557.10	8,225.61	8,030.03	195.57	42.059	
15,000.00	7,806.84	5,145.00	5,145.00	148.83	103.10	-60.01	-1,737.59	5,557.10	8,303.37	8,107.39	195.99	42.367	
15,100.00	7,806.84	5,145.00	5,145.00	150.55	103.10	-60.01	-1,737.59	5,557.10	8,381.61	8,185.22	196.39	42.679	
15,200.00	7,806.83	5,145.00	5,145.00	152.28	103.10	-60.01	-1,737.59	5,557.10	8,460.31	8,263.53	196.78	42.994	
15,300.00	7,806.83	5,145.00	5,145.00	154.01	103.10	-60.01	-1,737.59	5,557.10	8,539.45	8,342.30	197.16	43.313	
15,400.00	7,806.83	5,145.00	5,145.00	155.74	103.10	-60.01	-1,737.59	5,557.10	8,619.03	8,421.51	197.52	43.635	
15,500.00	7,806.83	5,145.00	5,145.00	157.47	103.10	-60.01	-1,737.59	5,557.10	8,699.03	8,501.15	197.88	43.961	
15,600.00	7,806.82	5,145.00	5,145.00	159.20	103.10	-60.01	-1,737.59	5,557.10	8,779.44	8,581.21	198.23	44.290	
15,700.00	7,806.82	5,145.00	5,145.00	160.93	103.10	-60.01	-1,737.59	5,557.10	8,860.25	8,661.68	198.56	44.622	
15,800.00	7,806.82	5,145.00	5,145.00	162.67	103.10	-60.01	-1,737.59	5,557.10	8,941.44	8,742.55	198.89	44.957	
15,900.00	7,806.82	5,145.00	5,145.00	164.40	103.10	-60.01	-1,737.59	5,557.10	9,023.01	8,823.81	199.20	45.295	
16,000.00	7,806.81	5,145.00	5,145.00	166.14	103.10	-60.01	-1,737.59	5,557.10	9,104.95	8,905.44	199.51	45.636	
16,100.00	7,806.81	5,145.00	5,145.00	167.87	103.10	-60.01	-1,737.59	5,557.10	9,187.25	8,987.44	199.81	45.980	
16,200.00	7,806.81	5,145.00	5,145.00	169.61	103.10	-60.01	-1,737.59	5,557.10	9,269.90	9,069.80	200.10	46.326	
16,300.00	7,806.81	5,145.00	5,145.00	171.35	103.10	-60.01	-1,737.59	5,557.10	9,352.89	9,152.50	200.38	46.675	
16,400.00	7,806.81	5,145.00	5,145.00	173.09	103.10	-60.01	-1,737.59	5,557.10	9,436.20	9,235.54	200.66	47.027	
16,500.00	7,806.80	5,145.00	5,145.00	174.83	103.10	-60.01	-1,737.59	5,557.10	9,519.84	9,318.92	200.92	47.381	
16,600.00	7,806.80	5,145.00	5,145.00	176.57	103.10	-60.01	-1,737.59	5,557.10	9,603.79	9,402.61	201.18	47.737	
16,700.00	7,806.80	5,145.00	5,145.00	178.31	103.10	-60.01	-1,737.59	5,557.10	9,688.04	9,486.61	201.43	48.096	
16,800.00	7,806.80	5,145.00	5,145.00	180.05	103.10	-60.01	-1,737.59	5,557.10	9,772.59	9,570.91	201.68	48.457	
16,900.00	7,806.79	5,145.00	5,145.00	181.79	103.10	-60.01	-1,737.59	5,557.10	9,857.43	9,655.52	201.92	48.820	
17,000.00	7,806.79	5,145.00	5,145.00	183.53	103.10	-60.01	-1,737.59	5,557.10	9,942.55	9,740.41	202.15	49.185	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	130.62	-3,970.05	4,628.99	6,098.83					
100.00	100.00	13.34	13.34	0.13	0.02	130.62	-3,970.05	4,628.99	6,098.27	6,098.11	0.15	N/A		
200.00	200.00	93.28	93.28	0.49	0.15	130.61	-3,969.89	4,629.38	6,098.50	6,097.86	0.64	9,514.124		
300.00	300.00	199.55	199.54	0.85	0.53	130.61	-3,969.47	4,630.23	6,098.85	6,097.47	1.38	4,418.683		
400.00	400.00	292.00	291.99	1.21	0.86	130.60	-3,968.89	4,631.05	6,099.13	6,097.06	2.07	2,946.475		
500.00	500.00	413.00	412.98	1.57	1.29	130.58	-3,968.03	4,632.14	6,099.35	6,096.48	2.86	2,131.278		
600.00	600.00	491.03	491.00	1.93	1.57	130.57	-3,967.41	4,632.98	6,099.63	6,096.13	3.50	1,742.770		
700.00	700.00	700.00	740.29	2.29	2.30	130.58	-3,966.72	4,632.01	6,099.64	6,095.06	4.58	1,330.745		
800.00	800.00	902.52	902.08	2.64	2.99	130.67	-3,970.99	4,622.36	6,096.65	6,091.03	5.62	1,084.022		
900.00	900.00	981.67	980.74	3.00	3.27	130.75	-3,976.05	4,615.10	6,093.84	6,087.58	6.26	973.238		
1,000.00	1,000.00	1,106.56	1,104.69	3.36	3.72	130.89	-3,984.84	4,602.61	6,090.83	6,083.75	7.08	860.881		
1,100.00	1,100.00	1,100.00	1,232.09	3.72	3.69	131.04	-3,994.15	4,588.82	6,087.43	6,080.02	7.40	822.114		
1,200.00	1,199.98	1,325.05	1,321.20	4.06	4.56	-2.04	-4,001.22	4,578.34	6,082.06	6,073.44	8.62	705.894		
1,300.00	1,299.84	1,461.24	1,455.96	4.40	5.11	-1.87	-4,012.29	4,562.08	6,073.18	6,063.68	9.49	639.649		
1,400.00	1,399.45	1,534.00	1,527.91	4.74	5.41	-1.78	-4,018.41	4,553.14	6,060.79	6,050.66	10.13	598.335		
1,500.00	1,498.70	1,619.13	1,612.12	5.09	5.76	-1.67	-4,025.65	4,542.99	6,045.29	6,034.47	10.82	558.724		
1,600.00	1,597.47	1,722.11	1,713.99	5.46	6.19	-1.55	-4,034.43	4,530.73	6,026.44	6,014.85	11.59	520.002		
1,700.00	1,695.62	1,809.69	1,800.63	5.85	6.56	-1.44	-4,041.89	4,520.34	6,004.21	5,991.91	12.30	488.169		
1,800.00	1,793.06	1,912.26	1,902.19	6.27	6.98	-1.32	-4,050.17	4,508.61	5,978.66	5,965.59	13.07	457.330		
1,867.07	1,857.94	1,966.86	1,956.27	6.57	7.21	-1.26	-4,054.53	4,502.42	5,959.65	5,946.12	13.54	440.294		
1,900.00	1,889.69	1,993.32	1,982.48	6.72	7.32	-1.22	-4,056.59	4,499.50	5,950.00	5,936.23	13.76	432.372		
2,000.00	1,986.13	2,080.22	2,068.64	7.19	7.68	-1.12	-4,063.18	4,490.23	5,920.79	5,906.33	14.47	409.273		
2,100.00	2,082.57	2,167.74	2,155.42	7.68	8.05	-1.01	-4,069.76	4,481.08	5,891.72	5,876.54	15.18	388.132		
2,200.00	2,179.00	2,284.94	2,271.55	8.18	8.54	-0.86	-4,079.11	4,468.26	5,862.65	5,846.63	16.02	365.932		
2,300.00	2,275.44	2,415.16	2,400.45	8.69	9.09	-0.68	-4,089.49	4,452.97	5,832.99	5,816.07	16.92	344.655		
2,400.00	2,371.88	2,503.82	2,488.21	9.21	9.47	-0.55	-4,096.33	4,442.40	5,803.11	5,785.45	17.66	328.578		
2,500.00	2,468.31	2,563.53	2,547.30	9.74	9.72	-0.47	-4,101.23	4,435.37	5,773.65	5,755.37	18.28	315.769		
2,600.00	2,564.75	2,627.42	2,610.54	10.28	9.99	-0.38	-4,106.73	4,428.12	5,744.78	5,725.86	18.93	303.538		
2,700.00	2,661.19	2,723.44	2,705.75	10.82	10.40	-0.25	-4,114.41	4,418.33	5,716.36	5,696.66	19.70	290.221		
2,800.00	2,757.62	2,822.25	2,803.75	11.37	10.81	-0.12	-4,121.88	4,408.10	5,687.56	5,667.08	20.48	277.734		
2,900.00	2,854.06	2,902.06	2,882.82	11.92	11.15	-0.01	-4,128.54	4,399.64	5,659.12	5,637.93	21.19	267.062		
3,000.00	2,950.50	3,006.84	2,986.58	12.47	11.59	0.15	-4,137.64	4,388.21	5,630.73	5,608.72	22.01	255.863		
3,100.00	3,046.93	3,165.03	3,143.23	13.03	12.27	0.38	-4,150.63	4,370.39	5,601.87	5,578.84	23.04	243.162		
3,200.00	3,143.37	3,244.45	3,221.83	13.59	12.61	0.50	-4,157.03	4,361.06	5,572.55	5,548.79	23.76	234.555		
3,300.00	3,239.81	3,317.27	3,293.96	14.15	12.92	0.61	-4,162.84	4,352.82	5,543.51	5,519.06	24.45	226.716		
3,400.00	3,336.24	3,462.90	3,438.18	14.72	13.55	0.83	-4,174.07	4,336.09	5,514.18	5,488.75	25.43	216.821		
3,500.00	3,432.68	3,533.00	3,507.54	15.28	13.85	0.94	-4,179.80	4,327.71	5,484.85	5,458.73	26.12	209.976		
3,600.00	3,529.12	3,626.25	3,599.80	15.85	14.25	1.09	-4,187.63	4,316.66	5,455.82	5,428.91	26.90	202.787		
3,700.00	3,625.55	3,706.71	3,679.49	16.42	14.60	1.21	-4,193.95	4,307.52	5,426.79	5,399.16	27.63	196.390		
3,800.00	3,721.99	3,765.32	3,737.61	16.99	14.85	1.30	-4,198.37	4,301.36	5,398.21	5,369.93	28.28	190.909		
3,900.00	3,818.43	3,819.00	3,790.83	17.56	15.07	1.38	-4,202.79	4,295.97	5,370.39	5,341.49	28.90	185.819		
4,000.00	3,914.86	3,963.69	3,934.17	18.14	15.69	1.61	-4,214.95	4,280.41	5,342.11	5,312.23	29.88	178.782		
4,100.00	4,011.30	4,049.01	4,018.76	18.71	16.05	1.74	-4,221.77	4,271.58	5,313.99	5,283.36	30.63	173.495		
4,200.00	4,107.74	4,182.36	4,151.07	19.29	16.61	1.94	-4,231.54	4,258.19	5,285.71	5,254.16	31.55	167.523		
4,300.00	4,204.17	4,298.97	4,266.60	19.86	17.10	2.13	-4,240.37	4,245.03	5,256.75	5,224.33	32.42	162.141		
4,400.00	4,300.61	4,383.12	4,349.99	20.44	17.46	2.26	-4,246.59	4,235.62	5,227.77	5,194.60	33.17	157.611		
4,500.00	4,397.05	4,461.17	4,427.43	21.02	17.79	2.38	-4,252.04	4,227.49	5,199.06	5,165.17	33.89	153.409		
4,600.00	4,493.48	4,520.46	4,486.26	21.59	18.04	2.47	-4,256.30	4,221.54	5,170.82	5,136.27	34.55	149.683		
4,700.00	4,589.92	4,581.00	4,546.29	22.17	18.29	2.57	-4,261.38	4,215.54	5,143.42	5,108.21	35.21	146.094		
4,800.00	4,686.36	4,634.84	4,599.65	22.75	18.52	2.66	-4,266.30	4,210.38	5,116.75	5,080.90	35.84	142.749		
4,900.00	4,782.79	4,747.23	4,711.10	23.33	18.99	2.85	-4,276.50	4,200.12	5,090.51	5,053.81	36.70	138.710		
5,000.00	4,879.23	4,887.73	4,850.52	23.91	19.58	3.07	-4,287.87	4,186.94	5,063.39	5,025.74	37.65	134.484		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,100.00	4,975.67	5,001.75	4,963.57	24.49	20.06	3.27	-4,297.05	4,175.25	5,035.73	4,997.22	38.51	130.765		
5,200.00	5,072.10	5,104.69	5,065.61	25.07	20.49	3.45	-4,305.28	4,164.45	5,007.91	4,968.58	39.33	127.326		
5,300.00	5,168.54	5,195.71	5,155.90	25.66	20.88	3.60	-4,312.18	4,155.20	4,980.07	4,939.96	40.11	124.169		
5,400.00	5,264.98	5,391.85	5,350.56	26.24	21.69	3.93	-4,324.78	4,134.73	4,951.21	4,909.97	41.23	120.076		
5,500.00	5,361.41	5,483.98	5,441.90	26.82	22.08	4.09	-4,330.38	4,124.15	4,921.53	4,879.52	42.01	117.141		
5,600.00	5,457.85	5,585.35	5,542.40	27.40	22.51	4.27	-4,336.61	4,112.48	4,891.93	4,849.11	42.82	114.233		
5,700.00	5,554.29	5,661.00	5,617.49	27.99	22.82	4.39	-4,340.69	4,104.26	4,862.30	4,818.75	43.55	111.661		
5,800.00	5,650.72	5,729.69	5,686.69	28.57	23.10	4.51	-4,344.56	4,097.09	4,833.16	4,788.91	44.24	109.240		
5,900.00	5,747.16	5,793.08	5,748.65	29.15	23.37	4.62	-4,348.56	4,090.79	4,804.79	4,759.86	44.93	106.948		
6,000.00	5,843.60	5,869.03	5,824.03	29.74	23.68	4.75	-4,353.94	4,083.24	4,776.98	4,731.33	45.65	104.637		
6,100.00	5,940.03	5,975.11	5,929.22	30.32	24.13	4.95	-4,361.93	4,072.11	4,749.20	4,702.71	46.49	102.165		
6,200.00	6,036.47	6,066.40	6,019.84	30.90	24.51	5.12	-4,368.30	4,063.05	4,721.42	4,674.16	47.26	99.895		
6,300.00	6,132.91	6,156.18	6,109.12	31.49	24.87	5.26	-4,373.62	4,055.31	4,693.77	4,645.75	48.03	97.735		
6,400.00	6,229.34	6,241.47	6,194.06	32.07	25.20	5.38	-4,377.97	4,048.96	4,666.32	4,617.56	48.76	95.693		
6,500.00	6,325.78	6,326.45	6,278.78	32.66	25.52	5.50	-4,381.87	4,043.42	4,639.11	4,589.62	49.49	93.733		
6,552.14	6,376.06	6,360.64	6,312.86	32.96	25.65	5.54	-4,383.41	4,041.37	4,625.07	4,575.23	49.84	92.793		
6,600.00	6,422.32	6,392.02	6,344.15	33.24	25.77	5.56	-4,384.92	4,039.53	4,612.73	4,562.56	50.16	91.954		
6,700.00	6,519.60	6,463.34	6,415.28	33.78	26.04	5.60	-4,388.54	4,035.66	4,589.88	4,539.04	50.84	90.278		
6,800.00	6,617.63	6,545.33	6,497.12	34.27	26.33	5.64	-4,392.19	4,032.36	4,570.91	4,519.38	51.53	88.701		
6,900.00	6,716.28	6,641.88	6,593.64	34.72	26.65	5.66	-4,394.25	4,031.26	4,555.52	4,503.29	52.23	87.224		
7,000.00	6,815.45	6,749.16	6,700.91	35.13	26.99	5.67	-4,395.74	4,030.93	4,543.57	4,490.65	52.92	85.851		
7,100.00	6,915.00	6,871.53	6,823.27	35.49	27.36	5.67	-4,396.24	4,031.18	4,534.67	4,481.05	53.62	84.568		
7,200.00	7,014.82	6,972.56	6,924.30	35.81	27.65	5.66	-4,396.30	4,031.40	4,528.99	4,474.73	54.26	83.471		
7,300.00	7,114.79	7,072.92	7,024.66	36.09	27.96	5.66	-4,396.46	4,031.42	4,526.72	4,471.82	54.90	82.458		
7,313.61	7,128.40	7,084.86	7,036.60	36.13	28.00	5.66	-4,396.49	4,031.42	4,526.68	4,471.70	54.98	82.334		
7,319.21	7,134.00	7,089.77	7,041.51	36.14	28.01	138.85	-4,396.50	4,031.42	4,526.69	4,471.68	55.01	82.284		
7,400.00	7,214.79	7,162.92	7,114.66	36.33	28.24	138.85	-4,396.81	4,031.42	4,526.95	4,471.45	55.50	81.570		
7,419.21	7,234.00	7,184.21	7,135.95	36.37	28.31	138.85	-4,396.92	4,031.41	4,527.01	4,471.39	55.62	81.388		
7,450.00	7,264.77	7,218.33	7,170.07	36.46	28.42	-40.84	-4,397.09	4,031.37	4,526.48	4,470.65	55.83	81.083		
7,500.00	7,314.52	7,272.93	7,224.67	36.62	28.60	-41.12	-4,397.35	4,031.25	4,522.90	4,466.74	56.16	80.534		
7,550.00	7,363.66	7,326.27	7,278.01	36.81	28.77	-41.66	-4,397.57	4,031.08	4,516.02	4,459.52	56.50	79.931		
7,600.00	7,411.80	7,378.60	7,330.34	37.03	28.94	-42.47	-4,397.75	4,030.88	4,505.89	4,449.05	56.84	79.278		
7,650.00	7,458.60	7,429.48	7,381.21	37.29	29.11	-43.57	-4,397.89	4,030.66	4,492.61	4,435.44	57.17	78.582		
7,700.00	7,503.68	7,479.48	7,431.21	37.57	29.27	-44.97	-4,398.02	4,030.38	4,476.31	4,418.81	57.50	77.846		
7,750.00	7,546.72	7,527.46	7,479.19	37.89	29.43	-46.70	-4,398.18	4,029.99	4,457.13	4,399.30	57.83	77.079		
7,800.00	7,587.37	7,559.22	7,510.95	38.23	29.53	-48.69	-4,398.34	4,029.69	4,435.30	4,377.19	58.11	76.327		
7,850.00	7,625.34	7,587.24	7,538.97	38.59	29.62	-51.00	-4,398.54	4,029.45	4,411.10	4,352.72	58.38	75.558		
7,900.00	7,660.33	7,613.20	7,564.93	38.99	29.71	-53.68	-4,398.79	4,029.25	4,384.74	4,326.09	58.64	74.769		
7,950.00	7,692.07	7,636.92	7,588.64	39.40	29.79	-56.74	-4,399.06	4,029.09	4,356.42	4,297.52	58.90	73.965		
8,000.00	7,720.33	7,660.00	7,611.72	39.85	29.87	-60.21	-4,399.38	4,028.94	4,326.38	4,267.23	59.15	73.145		
8,050.00	7,744.88	7,679.69	7,631.41	40.31	29.93	-64.05	-4,399.65	4,028.84	4,294.85	4,235.47	59.39	72.319		
8,100.00	7,765.55	7,698.08	7,649.80	40.79	29.99	-68.29	-4,399.89	4,028.79	4,262.10	4,202.48	59.62	71.485		
8,150.00	7,782.18	7,712.92	7,664.64	41.30	30.04	-72.83	-4,400.07	4,028.78	4,228.40	4,168.55	59.85	70.649		
8,200.00	7,794.63	7,724.13	7,675.84	41.81	30.07	-77.60	-4,400.20	4,028.78	4,194.03	4,133.95	60.07	69.815		
8,250.00	7,802.82	7,731.63	7,683.35	42.34	30.10	-82.50	-4,400.28	4,028.79	4,159.26	4,098.97	60.29	68.986		
8,300.00	7,806.68	7,735.40	7,687.11	42.88	30.11	-87.42	-4,400.32	4,028.79	4,124.39	4,063.88	60.50	68.166		
8,319.29	7,807.00	7,735.85	7,687.57	43.09	30.11	-89.30	-4,400.33	4,028.80	4,110.96	4,050.37	60.59	67.853		
8,400.00	7,807.00	7,736.58	7,688.30	43.98	30.11	-89.31	-4,400.34	4,028.80	4,055.28	3,994.32	60.96	66.519		
8,500.00	7,807.00	7,737.48	7,689.19	45.12	30.11	-89.33	-4,400.35	4,028.80	3,987.49	3,925.95	61.54	64.796		
8,600.00	7,806.99	7,738.36	7,690.08	46.31	30.12	-89.34	-4,400.36	4,028.80	3,921.07	3,858.83	62.24	63.004		
8,700.00	7,806.99	7,739.25	7,690.96	47.53	30.12	-89.36	-4,400.37	4,028.80	3,856.10	3,793.04	63.06	61.154		
8,800.00	7,806.99	7,740.12	7,691.84	48.78	30.12	-89.38	-4,400.37	4,028.81	3,792.65	3,728.65	64.00	59.259		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	7,740.98	7,692.70	50.07	30.13	-89.39	-4,400.38	4,028.81	3,730.81	3,665.73	65.07	57.333		
9,000.00	7,806.98	7,741.84	7,693.56	51.38	30.13	-89.41	-4,400.39	4,028.81	3,670.64	3,604.38	66.27	55.390		
9,100.00	7,806.98	7,742.69	7,694.41	52.72	30.13	-89.43	-4,400.40	4,028.81	3,612.25	3,544.66	67.59	53.445		
9,200.00	7,806.98	7,743.54	7,695.26	54.09	30.13	-89.44	-4,400.41	4,028.82	3,555.71	3,486.68	69.03	51.511		
9,300.00	7,806.98	7,744.38	7,696.09	55.48	30.14	-89.46	-4,400.42	4,028.82	3,501.11	3,430.53	70.58	49.602		
9,400.00	7,806.97	7,745.21	7,696.92	56.89	30.14	-89.48	-4,400.43	4,028.82	3,448.55	3,376.30	72.25	47.731		
9,500.00	7,806.97	7,746.03	7,697.74	58.32	30.14	-89.49	-4,400.44	4,028.82	3,398.11	3,324.09	74.02	45.908		
9,600.00	7,806.97	7,746.84	7,698.56	59.77	30.14	-89.51	-4,400.44	4,028.83	3,349.91	3,274.02	75.89	44.142		
9,700.00	7,806.97	7,747.65	7,699.37	61.23	30.15	-89.52	-4,400.45	4,028.83	3,304.02	3,226.17	77.85	42.441		
9,800.00	7,806.96	7,748.46	7,700.17	62.71	30.15	-89.54	-4,400.46	4,028.83	3,260.56	3,180.67	79.89	40.811		
9,900.00	7,806.96	7,749.25	7,700.97	64.21	30.15	-89.55	-4,400.47	4,028.83	3,219.62	3,137.61	82.01	39.257		
10,000.00	7,806.96	7,750.04	7,701.76	65.72	30.16	-89.57	-4,400.48	4,028.84	3,181.30	3,097.10	84.20	37.784		
10,100.00	7,806.96	7,750.82	7,702.54	67.24	30.16	-89.59	-4,400.48	4,028.84	3,145.69	3,059.25	86.44	36.392		
10,200.00	7,806.95	7,751.60	7,703.32	68.78	30.16	-89.60	-4,400.49	4,028.84	3,112.89	3,024.16	88.72	35.085		
10,300.00	7,806.95	7,752.37	7,704.09	70.32	30.16	-89.62	-4,400.50	4,028.85	3,082.98	2,991.93	91.05	33.862		
10,400.00	7,806.95	7,755.00	7,706.72	71.88	30.17	-89.67	-4,400.52	4,028.86	3,056.05	2,962.66	93.39	32.722		
10,500.00	7,806.95	7,755.00	7,706.72	73.45	30.17	-89.67	-4,400.52	4,028.86	3,032.18	2,936.43	95.75	31.668		
10,600.00	7,806.95	7,755.00	7,706.72	75.02	30.17	-89.67	-4,400.52	4,028.86	3,011.45	2,913.34	98.11	30.696		
10,700.00	7,806.94	7,755.00	7,706.72	76.61	30.17	-89.67	-4,400.52	4,028.86	2,993.91	2,893.46	100.45	29.804		
10,800.00	7,806.94	7,755.00	7,706.72	78.20	30.17	-89.67	-4,400.52	4,028.86	2,979.63	2,876.85	102.78	28.992		
10,900.00	7,806.94	7,755.00	7,706.72	79.80	30.17	-89.67	-4,400.52	4,028.86	2,968.65	2,863.59	105.07	28.255		
11,000.00	7,806.94	7,755.00	7,706.72	81.41	30.17	-89.67	-4,400.52	4,028.86	2,961.01	2,853.70	107.31	27.593		
11,100.00	7,806.93	7,758.39	7,710.11	83.02	30.18	-89.73	-4,400.56	4,028.87	2,956.73	2,847.22	109.51	27.000		
11,176.61	7,806.93	7,758.97	7,710.68	84.26	30.18	-89.74	-4,400.56	4,028.87	2,955.74	2,844.59	111.14	26.594 CC		
11,200.00	7,806.93	7,759.14	7,710.86	84.64	30.18	-89.75	-4,400.56	4,028.87	2,955.83	2,844.19	111.63	26.478 ES		
11,300.00	7,806.93	7,759.88	7,711.60	86.27	30.19	-89.76	-4,400.57	4,028.88	2,958.31	2,844.62	113.69	26.021		
11,400.00	7,806.93	7,760.63	7,712.34	87.90	30.19	-89.78	-4,400.58	4,028.88	2,964.17	2,848.50	115.66	25.628		
11,500.00	7,806.92	7,761.37	7,713.08	89.54	30.19	-89.79	-4,400.58	4,028.88	2,973.37	2,855.83	117.54	25.296		
11,600.00	7,806.92	7,762.11	7,713.83	91.18	30.19	-89.80	-4,400.59	4,028.89	2,985.90	2,866.57	119.34	25.021		
11,700.00	7,806.92	7,762.85	7,714.56	92.83	30.20	-89.82	-4,400.60	4,028.89	3,001.72	2,880.69	121.03	24.802		
11,800.00	7,806.92	7,763.59	7,715.30	94.48	30.20	-89.83	-4,400.61	4,028.90	3,020.76	2,898.14	122.62	24.635		
11,900.00	7,806.91	7,764.32	7,716.04	96.14	30.20	-89.85	-4,400.61	4,028.90	3,042.97	2,918.86	124.11	24.519		
12,000.00	7,806.91	7,765.06	7,716.77	97.80	30.20	-89.86	-4,400.62	4,028.90	3,068.27	2,942.78	125.49	24.450		
12,100.00	7,806.91	7,765.79	7,717.51	99.46	30.20	-89.88	-4,400.63	4,028.91	3,096.61	2,969.83	126.77	24.426 SF		
12,200.00	7,806.91	7,766.52	7,718.24	101.13	30.21	-89.89	-4,400.63	4,028.91	3,127.88	2,999.93	127.95	24.446		
12,300.00	7,806.90	7,767.25	7,718.97	102.80	30.21	-89.90	-4,400.64	4,028.91	3,162.01	3,032.98	129.03	24.506		
12,400.00	7,806.90	7,767.98	7,719.70	104.47	30.21	-89.92	-4,400.65	4,028.92	3,198.90	3,068.89	130.01	24.605		
12,500.00	7,806.90	7,768.71	7,720.43	106.15	30.21	-89.93	-4,400.65	4,028.92	3,238.46	3,107.56	130.90	24.741		
12,600.00	7,806.90	7,769.44	7,721.15	107.83	30.22	-89.95	-4,400.66	4,028.93	3,280.59	3,148.90	131.69	24.911		
12,700.00	7,806.89	7,770.16	7,721.88	109.52	30.22	-89.96	-4,400.67	4,028.93	3,325.20	3,192.80	132.40	25.115		
12,800.00	7,806.89	7,770.89	7,722.60	111.20	30.22	-89.97	-4,400.67	4,028.93	3,372.18	3,239.15	133.03	25.350		
12,900.00	7,806.89	7,771.61	7,723.33	112.89	30.22	-89.99	-4,400.68	4,028.94	3,421.44	3,287.86	133.58	25.614		
13,000.00	7,806.89	7,772.33	7,724.05	114.59	30.22	-90.00	-4,400.69	4,028.94	3,472.88	3,338.83	134.05	25.907		
13,100.00	7,806.88	7,773.05	7,724.77	116.28	30.23	-90.02	-4,400.69	4,028.95	3,526.41	3,391.95	134.46	26.226		
13,200.00	7,806.88	7,773.77	7,725.49	117.98	30.23	-90.03	-4,400.70	4,028.95	3,581.93	3,447.12	134.81	26.570		
13,300.00	7,806.88	7,774.49	7,726.21	119.68	30.23	-90.04	-4,400.71	4,028.96	3,639.35	3,504.25	135.10	26.939		
13,400.00	7,806.88	7,775.21	7,726.92	121.38	30.23	-90.06	-4,400.72	4,028.96	3,698.58	3,563.25	135.33	27.330		
13,500.00	7,806.88	7,775.92	7,727.64	123.08	30.24	-90.07	-4,400.72	4,028.96	3,759.54	3,624.03	135.52	27.742		
13,600.00	7,806.87	7,776.64	7,728.35	124.79	30.24	-90.09	-4,400.73	4,028.97	3,822.15	3,686.49	135.66	28.175		
13,700.00	7,806.87	7,777.35	7,729.06	126.49	30.24	-90.10	-4,400.74	4,028.97	3,886.32	3,750.56	135.75	28.627		
13,800.00	7,806.87	7,778.06	7,729.78	128.20	30.24	-90.11	-4,400.74	4,028.98	3,951.97	3,816.16	135.82	29.098		
13,900.00	7,806.87	7,778.77	7,730.49	129.91	30.24	-90.13	-4,400.75	4,028.98	4,019.05	3,883.20	135.84	29.586		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,779.48	7,731.20	131.62	30.25	-90.14	-4,400.75	4,028.99	4,087.47	3,951.63	135.84	30.091		
14,100.00	7,806.86	7,780.19	7,731.90	133.34	30.25	-90.15	-4,400.76	4,028.99	4,157.16	4,021.36	135.81	30.611		
14,200.00	7,806.86	7,780.89	7,732.61	135.05	30.25	-90.17	-4,400.77	4,029.00	4,228.08	4,092.33	135.75	31.146		
14,300.00	7,806.86	7,781.60	7,733.31	136.77	30.25	-90.18	-4,400.77	4,029.00	4,300.15	4,164.48	135.67	31.695		
14,400.00	7,806.85	7,782.30	7,734.02	138.49	30.25	-90.20	-4,400.78	4,029.01	4,373.32	4,237.75	135.57	32.258		
14,500.00	7,806.85	7,783.01	7,734.72	140.21	30.26	-90.21	-4,400.79	4,029.01	4,447.53	4,312.08	135.46	32.833		
14,600.00	7,806.85	7,783.71	7,735.42	141.93	30.26	-90.22	-4,400.79	4,029.01	4,522.74	4,387.42	135.33	33.421		
14,700.00	7,806.85	7,784.41	7,736.12	143.65	30.26	-90.24	-4,400.80	4,029.02	4,598.89	4,463.71	135.18	34.020		
14,800.00	7,806.84	7,785.11	7,736.82	145.37	30.26	-90.25	-4,400.81	4,029.02	4,675.94	4,540.92	135.02	34.630		
14,900.00	7,806.84	7,785.80	7,737.52	147.10	30.27	-90.26	-4,400.81	4,029.03	4,753.85	4,618.99	134.86	35.251		
15,000.00	7,806.84	7,786.50	7,738.21	148.83	30.27	-90.28	-4,400.82	4,029.03	4,832.57	4,697.89	134.68	35.882		
15,100.00	7,806.84	7,787.20	7,738.91	150.55	30.27	-90.29	-4,400.83	4,029.04	4,912.06	4,777.57	134.50	36.522		
15,200.00	7,806.83	7,787.89	7,739.60	152.28	30.27	-90.30	-4,400.83	4,029.04	4,992.29	4,857.99	134.30	37.171		
15,300.00	7,806.83	7,788.58	7,740.30	154.01	30.27	-90.32	-4,400.84	4,029.05	5,073.22	4,939.11	134.11	37.829		
15,400.00	7,806.83	7,789.27	7,740.99	155.74	30.28	-90.33	-4,400.85	4,029.05	5,154.82	5,020.92	133.91	38.495		
15,500.00	7,806.83	7,789.96	7,741.68	157.47	30.28	-90.34	-4,400.85	4,029.06	5,237.06	5,103.36	133.70	39.169		
15,600.00	7,806.82	7,790.65	7,742.37	159.20	30.28	-90.36	-4,400.86	4,029.07	5,319.91	5,186.42	133.50	39.851		
15,700.00	7,806.82	7,791.34	7,743.05	160.93	30.28	-90.37	-4,400.86	4,029.07	5,403.34	5,270.05	133.29	40.540		
15,800.00	7,806.82	7,792.03	7,743.74	162.67	30.28	-90.38	-4,400.87	4,029.08	5,487.32	5,354.25	133.07	41.235		
15,900.00	7,806.82	7,792.71	7,744.43	164.40	30.29	-90.40	-4,400.88	4,029.08	5,571.83	5,438.97	132.86	41.937		
16,000.00	7,806.81	7,793.40	7,745.11	166.14	30.29	-90.41	-4,400.88	4,029.09	5,656.85	5,524.20	132.65	42.645		
16,100.00	7,806.81	7,794.08	7,745.79	167.87	30.29	-90.42	-4,400.89	4,029.09	5,742.35	5,609.91	132.44	43.359		
16,200.00	7,806.81	7,794.76	7,746.48	169.61	30.29	-90.44	-4,400.90	4,029.10	5,828.31	5,696.08	132.22	44.079		
16,300.00	7,806.81	7,795.44	7,747.16	171.35	30.29	-90.45	-4,400.90	4,029.10	5,914.71	5,782.69	132.01	44.804		
16,400.00	7,806.81	7,796.12	7,747.84	173.09	30.30	-90.46	-4,400.91	4,029.11	6,001.53	5,869.73	131.80	45.534		
16,500.00	7,806.80	7,796.80	7,748.51	174.83	30.30	-90.48	-4,400.91	4,029.11	6,088.76	5,957.17	131.59	46.270		
16,600.00	7,806.80	7,797.48	7,749.19	176.57	30.30	-90.49	-4,400.92	4,029.12	6,176.37	6,044.99	131.39	47.010		
16,700.00	7,806.80	7,798.15	7,749.87	178.31	30.30	-90.50	-4,400.93	4,029.12	6,264.36	6,133.18	131.18	47.754		
16,800.00	7,806.80	7,798.83	7,750.54	180.05	30.31	-90.52	-4,400.93	4,029.13	6,352.70	6,221.72	130.98	48.503		
16,900.00	7,806.79	7,799.50	7,751.21	181.79	30.31	-90.53	-4,400.94	4,029.14	6,441.38	6,310.61	130.77	49.256		
17,000.00	7,806.79	7,800.17	7,751.89	183.53	30.31	-90.54	-4,400.94	4,029.14	6,530.39	6,399.82	130.57	50.013		
17,100.00	7,806.79	7,800.84	7,752.56	185.27	30.31	-90.55	-4,400.95	4,029.15	6,619.71	6,489.34	130.38	50.773		
17,200.00	7,806.79	7,801.51	7,753.23	187.02	30.31	-90.57	-4,400.96	4,029.15	6,709.34	6,579.15	130.18	51.538		
17,300.00	7,806.78	7,802.18	7,753.90	188.76	30.32	-90.58	-4,400.96	4,029.16	6,799.25	6,669.26	129.99	52.305		
17,400.00	7,806.78	7,802.85	7,754.56	190.51	30.32	-90.59	-4,400.97	4,029.16	6,889.44	6,759.64	129.80	53.076		
17,500.00	7,806.78	7,803.52	7,755.23	192.25	30.32	-90.61	-4,400.98	4,029.17	6,979.90	6,850.28	129.62	53.850		
17,600.00	7,806.78	7,804.18	7,755.90	194.00	30.32	-90.62	-4,400.98	4,029.18	7,070.61	6,941.18	129.43	54.628		
17,700.00	7,806.77	7,804.85	7,756.56	195.74	30.32	-90.63	-4,400.99	4,029.18	7,161.58	7,032.32	129.25	55.407		
17,800.00	7,806.77	7,805.51	7,757.22	197.49	30.33	-90.65	-4,400.99	4,029.19	7,252.78	7,123.70	129.08	56.190		
17,900.00	7,806.77	7,806.17	7,757.88	199.24	30.33	-90.66	-4,401.00	4,029.19	7,344.21	7,215.31	128.90	56.975		
17,973.82	7,807.00	7,806.83	7,758.54	200.53	30.33	-90.67	-4,401.00	4,029.20	7,411.90	7,283.12	128.78	57.556		
17,974.53	7,807.00	7,806.83	7,758.55	200.55	30.33	-90.67	-4,401.00	4,029.20	7,412.55	7,282.42	130.14	56.960		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	130.68	-3,991.54	4,643.28	6,123.68					
100.00	100.00	27.95	27.95	0.13	0.04	130.68	-3,991.58	4,643.21	6,123.09	6,122.92	0.17	N/A		
173.99	173.99	90.00	90.00	0.40	0.19	130.69	-3,991.92	4,642.66	6,122.89	6,122.30	0.59	N/A		
200.00	200.00	102.91	102.90	0.49	0.23	130.69	-3,992.06	4,642.55	6,122.90	6,122.18	0.73	8,428.873		
300.00	300.00	149.10	149.08	0.85	0.40	130.70	-3,993.00	4,642.19	6,123.60	6,122.35	1.25	4,894.645		
400.00	400.00	229.09	229.03	1.21	0.69	130.72	-3,995.42	4,641.16	6,124.65	6,122.75	1.90	3,224.956		
500.00	500.00	264.00	263.90	1.57	0.82	130.74	-3,997.01	4,640.61	6,126.54	6,124.16	2.39	2,568.016		
600.00	600.00	315.76	315.54	1.93	1.01	130.77	-4,000.37	4,639.72	6,129.45	6,126.51	2.94	2,087.756		
700.00	700.00	385.00	384.54	2.29	1.27	130.82	-4,005.87	4,638.11	6,132.92	6,129.36	3.55	1,725.153		
800.00	800.00	477.00	475.98	2.64	1.64	130.91	-4,015.37	4,634.52	6,136.74	6,132.47	4.27	1,436.187		
900.00	900.00	506.00	504.72	3.00	1.76	130.94	-4,018.92	4,633.08	6,141.17	6,136.43	4.75	1,293.580		
1,000.00	1,000.00	547.89	546.18	3.36	1.93	130.99	-4,024.58	4,631.11	6,146.64	6,141.37	5.28	1,164.969		
1,100.00	1,100.00	598.00	595.66	3.72	2.15	131.06	-4,032.12	4,628.77	6,153.06	6,147.22	5.84	1,053.131		
1,200.00	1,199.98	636.55	633.60	4.06	2.32	-2.06	-4,038.65	4,626.76	6,158.64	6,152.29	6.35	970.044		
1,300.00	1,299.84	688.00	684.04	4.40	2.56	-1.98	-4,048.39	4,623.83	6,161.69	6,154.78	6.91	892.143		
1,400.00	1,399.45	718.00	713.32	4.74	2.70	-1.92	-4,054.60	4,621.92	6,162.13	6,154.76	7.38	835.430		
1,500.00	1,498.70	762.64	756.73	5.09	2.92	-1.84	-4,064.61	4,618.96	6,160.09	6,152.16	7.92	777.299		
1,600.00	1,597.47	813.00	805.38	5.46	3.19	-1.73	-4,077.09	4,615.30	6,155.58	6,147.06	8.52	722.902		
1,700.00	1,695.62	857.45	848.05	5.85	3.43	-1.63	-4,089.00	4,611.72	6,148.45	6,139.36	9.09	676.442		
1,800.00	1,793.06	908.00	896.29	6.27	3.72	-1.51	-4,103.42	4,607.22	6,138.63	6,128.92	9.71	632.217		
1,867.07	1,857.94	922.67	910.21	6.57	3.81	-1.48	-4,107.84	4,605.88	6,130.68	6,120.66	10.02	611.560		
1,900.00	1,889.69	1,900.00	930.37	6.72	9.84	-1.42	-4,114.45	4,603.92	6,126.62	6,109.63	16.99	360.674		
2,000.00	1,986.13	1,045.12	1,025.83	7.19	4.57	-1.14	-4,146.19	4,593.43	6,113.84	6,102.62	11.21	545.302		
2,100.00	2,082.57	1,102.38	1,079.73	7.68	4.93	-0.97	-4,164.62	4,587.66	6,101.91	6,090.00	11.91	512.346		
2,200.00	2,179.00	1,174.22	1,147.59	8.18	5.39	-0.78	-4,187.32	4,581.21	6,090.53	6,077.83	12.70	479.555		
2,300.00	2,275.44	1,218.00	1,188.95	8.69	5.67	-0.66	-4,201.17	4,577.45	6,079.73	6,066.41	13.32	456.401		
2,400.00	2,371.88	1,280.92	1,248.26	9.21	6.08	-0.48	-4,221.50	4,572.22	6,069.67	6,055.60	14.07	431.516		
2,500.00	2,468.31	1,396.66	1,357.38	9.74	6.84	-0.17	-4,259.06	4,563.40	6,060.24	6,045.11	15.14	400.404		
2,600.00	2,564.75	1,467.70	1,424.08	10.28	7.32	0.04	-4,282.73	4,557.25	6,050.81	6,034.87	15.94	379.515		
2,700.00	2,661.19	1,566.71	1,516.20	10.82	8.01	0.35	-4,317.53	4,547.00	6,041.71	6,024.75	16.96	356.312		
2,800.00	2,757.62	1,712.84	1,651.60	11.37	9.06	0.82	-4,369.75	4,529.89	6,032.35	6,014.05	18.30	329.567		
2,900.00	2,854.06	1,866.84	1,795.59	11.92	10.13	1.29	-4,421.78	4,513.35	6,022.51	6,002.83	19.67	306.111		
3,000.00	2,950.50	1,976.73	1,898.68	12.47	10.88	1.63	-4,457.78	4,501.01	6,011.65	5,990.90	20.75	289.739		
3,100.00	3,046.93	2,106.00	2,020.51	13.03	11.75	2.01	-4,498.80	4,487.46	6,000.69	5,978.76	21.93	273.619		
3,200.00	3,143.37	2,167.62	2,079.00	13.59	12.15	2.18	-4,517.35	4,481.80	5,989.76	5,967.09	22.67	264.218		
3,300.00	3,239.81	2,213.60	2,122.68	14.15	12.44	2.30	-4,531.28	4,478.35	5,979.97	5,956.66	23.32	256.468		
3,400.00	3,336.24	2,300.94	2,205.03	14.72	13.03	2.55	-4,559.28	4,470.52	5,970.72	5,946.50	24.22	246.483		
3,500.00	3,432.68	2,374.90	2,274.31	15.28	13.54	2.78	-4,584.04	4,462.96	5,961.86	5,936.79	25.07	237.838		
3,600.00	3,529.12	2,431.48	2,327.26	15.85	13.93	2.95	-4,603.19	4,457.32	5,953.60	5,927.80	25.80	230.778		
3,700.00	3,625.55	2,643.53	2,526.48	16.42	15.39	3.59	-4,672.81	4,436.88	5,945.03	5,917.53	27.51	216.131		
3,800.00	3,721.99	2,725.83	2,603.74	16.99	15.95	3.85	-4,699.74	4,427.99	5,935.74	5,907.34	28.40	209.037		
3,900.00	3,818.43	2,813.25	2,685.90	17.56	16.55	4.11	-4,728.16	4,418.78	5,926.64	5,897.32	29.32	202.164		
4,000.00	3,914.86	2,917.50	2,784.15	18.14	17.25	4.42	-4,761.54	4,408.73	5,917.89	5,887.56	30.33	195.105		
4,100.00	4,011.30	3,030.01	2,890.30	18.71	18.01	4.76	-4,797.12	4,397.56	5,908.80	5,877.40	31.40	188.200		
4,200.00	4,107.74	3,092.93	2,949.47	19.29	18.44	4.95	-4,817.45	4,390.90	5,900.04	5,867.88	32.16	183.456		
4,300.00	4,204.17	3,152.00	3,004.78	19.86	18.85	5.14	-4,837.20	4,384.56	5,892.13	5,859.23	32.90	179.078		
4,400.00	4,300.61	3,240.85	3,088.11	20.44	19.46	5.42	-4,866.68	4,375.60	5,884.64	5,850.81	33.83	173.945		
4,500.00	4,397.05	4,500.00	3,200.22	21.02	28.13	5.79	-4,906.34	4,363.68	5,877.45	5,835.43	42.02	139.873		
4,600.00	4,493.48	3,452.11	3,286.52	21.59	20.91	6.07	-4,936.06	4,354.45	5,869.71	5,833.83	35.88	163.579		
4,700.00	4,589.92	4,700.00	3,414.46	22.17	29.33	6.48	-4,979.68	4,341.43	5,862.25	5,818.40	43.85	133.698		
4,800.00	4,686.36	3,651.79	3,474.59	22.75	22.27	6.68	-5,000.03	4,334.44	5,854.17	5,816.33	37.85	154.677		
4,900.00	4,782.79	3,692.00	3,512.27	23.33	22.54	6.81	-5,013.51	4,330.44	5,847.67	5,809.21	38.46	152.042		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,000.00	4,879.23	3,950.37	3,756.53	23.91	24.26	7.57	-5,094.13	4,306.74	5,840.02	5,799.64	40.38	144.638		
5,100.00	4,975.67	4,018.69	3,821.62	24.49	24.69	7.76	-5,114.13	4,301.21	5,831.75	5,790.61	41.14	141.755		
5,200.00	5,072.10	4,092.43	3,891.51	25.07	25.17	7.98	-5,136.58	4,294.25	5,823.84	5,781.90	41.94	138.872		
5,300.00	5,168.54	4,157.42	3,953.09	25.66	25.60	8.17	-5,156.57	4,288.66	5,816.72	5,774.04	42.69	136.267		
5,400.00	5,264.98	4,235.61	4,026.95	26.24	26.12	8.41	-5,181.12	4,281.18	5,809.81	5,766.29	43.52	133.504		
5,500.00	5,361.41	5,500.00	4,105.18	26.82	34.78	8.67	-5,208.11	4,272.84	5,803.60	5,752.04	51.56	112.554		
5,600.00	5,457.85	4,357.74	4,141.70	27.40	26.96	8.80	-5,221.01	4,268.73	5,797.94	5,752.95	44.99	128.874		
5,700.00	5,554.29	4,522.44	4,295.98	27.99	28.11	9.33	-5,276.10	4,251.81	5,793.01	5,746.63	46.38	124.901		
5,800.00	5,650.72	4,579.00	4,349.07	28.57	28.49	9.51	-5,294.66	4,245.73	5,787.31	5,740.22	47.09	122.907		
5,900.00	5,747.16	4,631.88	4,398.61	29.15	28.86	9.68	-5,312.30	4,240.25	5,782.44	5,734.67	47.77	121.053		
6,000.00	5,843.60	4,824.41	4,579.83	29.74	30.17	10.28	-5,374.93	4,222.82	5,778.04	5,728.74	49.30	117.202		
6,100.00	5,940.03	4,974.64	4,722.15	30.32	31.15	10.73	-5,420.93	4,209.11	5,771.87	5,721.34	50.54	114.210		
6,200.00	6,036.47	5,055.18	4,799.16	30.90	31.65	10.94	-5,443.95	4,203.82	5,765.54	5,714.20	51.34	112.303		
6,300.00	6,132.91	5,112.27	4,853.63	31.49	32.01	11.10	-5,460.61	4,200.00	5,759.79	5,707.77	52.02	110.727		
6,400.00	6,229.34	5,299.52	5,031.13	32.07	33.23	11.67	-5,517.41	4,182.03	5,753.44	5,699.97	53.47	107.606		
6,500.00	6,325.78	5,351.18	5,080.03	32.66	33.58	11.83	-5,533.19	4,176.63	5,747.15	5,693.01	54.14	106.163		
6,552.14	6,376.06	5,377.51	5,104.87	32.96	33.75	11.91	-5,541.45	4,173.82	5,744.22	5,689.74	54.48	105.440		
6,600.00	6,422.32	5,506.62	5,227.13	33.24	34.60	12.30	-5,580.74	4,160.64	5,741.69	5,686.29	55.41	103.630		
6,700.00	6,519.60	5,587.41	5,304.18	33.78	35.11	12.52	-5,604.03	4,153.71	5,738.58	5,682.37	56.21	102.088		
6,733.80	6,552.66	5,616.83	5,332.21	33.94	35.29	12.60	-5,612.59	4,151.13	5,738.37	5,681.88	56.49	101.578		
6,800.00	6,617.63	5,693.15	5,404.82	34.27	35.78	12.81	-5,634.99	4,144.01	5,739.10	5,681.94	57.15	100.416		
6,900.00	6,716.28	5,760.96	5,469.19	34.72	36.22	13.03	-5,655.17	4,137.14	5,743.12	5,685.25	57.87	99.239		
7,000.00	6,815.45	5,820.00	5,525.11	35.13	36.61	13.23	-5,673.21	4,131.38	5,751.42	5,692.89	58.53	98.269		
7,100.00	6,915.00	7,100.00	5,861.27	35.49	44.01	14.13	-5,770.40	4,102.32	5,762.32	5,696.93	65.39	88.128		
7,200.00	7,014.82	6,781.64	6,459.22	35.81	41.69	15.19	-5,883.01	4,061.54	5,767.52	5,703.99	63.53	90.779		
7,300.00	7,114.79	7,389.26	7,065.10	36.09	43.44	15.53	-5,916.81	4,047.73	5,767.61	5,702.51	65.10	88.597		
7,319.21	7,134.00	7,417.07	7,092.91	36.14	43.49	148.71	-5,916.59	4,047.74	5,767.42	5,702.22	65.20	88.453		
7,400.00	7,214.79	7,529.92	7,205.74	36.33	43.68	148.70	-5,915.01	4,048.08	5,766.58	5,700.95	65.63	87.870		
7,419.21	7,234.00	7,543.23	7,219.05	36.37	43.71	148.70	-5,914.76	4,048.19	5,766.35	5,700.63	65.72	87.743		
7,450.00	7,264.77	7,570.85	7,246.66	36.46	43.75	-31.02	-5,914.21	4,048.47	5,765.28	5,699.40	65.87	87.520		
7,500.00	7,314.52	7,605.30	7,281.11	36.62	43.81	-31.29	-5,913.51	4,048.93	5,760.60	5,694.47	66.13	87.115		
7,550.00	7,363.66	7,635.96	7,311.75	36.81	43.86	-31.76	-5,912.93	4,049.45	5,752.38	5,686.00	66.38	86.658		
7,600.00	7,411.80	7,677.00	7,352.78	37.03	43.93	-32.47	-5,912.24	4,050.31	5,740.71	5,674.07	66.64	86.145		
7,650.00	7,458.60	7,693.63	7,369.41	37.29	43.96	-33.37	-5,912.00	4,050.69	5,725.63	5,658.74	66.89	85.602		
7,700.00	7,503.68	7,719.44	7,395.21	37.57	44.00	-34.55	-5,911.70	4,051.31	5,707.30	5,640.17	67.13	85.013		
7,750.00	7,546.72	7,744.14	7,419.90	37.89	44.05	-36.01	-5,911.49	4,051.93	5,685.86	5,618.48	67.38	84.391		
7,800.00	7,587.37	7,772.00	7,447.75	38.23	44.10	-37.81	-5,911.36	4,052.64	5,661.46	5,593.84	67.61	83.736		
7,850.00	7,625.34	7,895.35	7,571.06	38.59	44.31	-40.55	-5,909.84	4,055.13	5,633.66	5,565.77	67.89	82.981		
7,900.00	7,660.33	7,922.31	7,598.01	38.99	44.36	-43.28	-5,909.38	4,055.63	5,603.21	5,535.10	68.11	82.273		
7,950.00	7,692.07	7,946.73	7,622.42	39.40	44.40	-46.54	-5,908.98	4,056.11	5,570.42	5,502.11	68.31	81.551		
8,000.00	7,720.33	7,962.00	7,637.69	39.85	44.43	-50.32	-5,908.74	4,056.42	5,535.55	5,467.06	68.49	80.823		
8,050.00	7,744.88	7,979.33	7,655.01	40.31	44.46	-54.78	-5,908.49	4,056.81	5,498.88	5,430.22	68.66	80.087		
8,100.00	7,765.55	7,990.20	7,665.87	40.79	44.48	-59.90	-5,908.34	4,057.07	5,460.70	5,391.88	68.82	79.351		
8,150.00	7,782.18	7,998.91	7,674.59	41.30	44.50	-65.72	-5,908.24	4,057.28	5,421.29	5,352.33	68.96	78.616		
8,200.00	7,794.63	8,005.39	7,681.07	41.81	44.51	-72.20	-5,908.16	4,057.45	5,380.95	5,311.87	69.09	77.886		
8,250.00	7,802.82	8,009.57	7,685.25	42.34	44.52	-79.19	-5,908.12	4,057.56	5,339.99	5,270.78	69.20	77.163		
8,300.00	7,806.68	8,011.40	7,687.07	42.88	44.52	-86.48	-5,908.10	4,057.61	5,298.70	5,229.39	69.31	76.452		
8,319.29	7,807.00	8,011.47	7,687.14	43.09	44.52	-89.31	-5,908.10	4,057.61	5,282.76	5,213.41	69.35	76.180		
8,400.00	7,807.00	8,011.01	7,686.69	43.98	44.52	-89.30	-5,908.10	4,057.60	5,216.27	5,146.75	69.52	75.033		
8,500.00	7,807.00	8,010.44	7,686.11	45.12	44.52	-89.29	-5,908.11	4,057.59	5,134.45	5,064.65	69.80	73.561		
8,600.00	7,806.99	8,009.86	7,685.53	46.31	44.52	-89.28	-5,908.12	4,057.57	5,053.29	4,983.14	70.15	72.034		
8,700.00	7,806.99	8,009.28	7,684.95	47.53	44.52	-89.27	-5,908.12	4,057.55	4,972.81	4,902.23	70.58	70.453		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,800.00	7,806.99	8,008.68	7,684.35	48.78	44.52	-89.26	-5,908.13	4,057.54	4,893.06	4,821.96	71.10	68.820		
8,900.00	7,806.99	8,008.08	7,683.75	50.07	44.51	-89.25	-5,908.14	4,057.52	4,814.06	4,742.35	71.70	67.138		
9,000.00	7,806.98	8,007.47	7,683.14	51.38	44.51	-89.23	-5,908.14	4,057.51	4,735.85	4,663.45	72.40	65.412		
9,100.00	7,806.98	8,006.86	7,682.53	52.72	44.51	-89.22	-5,908.15	4,057.49	4,658.48	4,585.28	73.19	63.646		
9,200.00	7,806.98	8,006.23	7,681.91	54.09	44.51	-89.21	-5,908.16	4,057.47	4,581.98	4,507.89	74.09	61.847		
9,300.00	7,806.98	8,005.60	7,681.28	55.48	44.51	-89.20	-5,908.16	4,057.46	4,506.40	4,431.32	75.08	60.021		
9,400.00	7,806.97	8,004.96	7,680.64	56.89	44.51	-89.19	-5,908.17	4,057.44	4,431.79	4,355.62	76.18	58.176		
9,500.00	7,806.97	8,004.32	7,679.99	58.32	44.51	-89.17	-5,908.18	4,057.42	4,358.20	4,280.82	77.38	56.321		
9,600.00	7,806.97	8,003.66	7,679.34	59.77	44.51	-89.16	-5,908.18	4,057.41	4,285.68	4,206.99	78.69	54.462		
9,700.00	7,806.97	8,003.00	7,678.67	61.23	44.50	-89.15	-5,908.19	4,057.39	4,214.28	4,134.17	80.11	52.608		
9,800.00	7,806.96	8,002.33	7,678.00	62.71	44.50	-89.14	-5,908.20	4,057.37	4,144.07	4,062.44	81.63	50.767		
9,900.00	7,806.96	8,001.65	7,677.32	64.21	44.50	-89.12	-5,908.21	4,057.35	4,075.10	3,991.84	83.26	48.946		
10,000.00	7,806.96	8,000.96	7,676.64	65.72	44.50	-89.11	-5,908.21	4,057.34	4,007.44	3,922.45	84.99	47.152		
10,100.00	7,806.96	8,000.26	7,675.94	67.24	44.50	-89.10	-5,908.22	4,057.32	3,941.15	3,854.32	86.83	45.392		
10,200.00	7,806.95	7,999.56	7,675.23	68.78	44.50	-89.08	-5,908.23	4,057.30	3,876.31	3,787.55	88.76	43.671		
10,300.00	7,806.95	7,998.84	7,674.52	70.32	44.50	-89.07	-5,908.24	4,057.28	3,812.99	3,722.20	90.79	41.996		
10,400.00	7,806.95	7,998.12	7,673.79	71.88	44.50	-89.05	-5,908.25	4,057.26	3,751.27	3,658.34	92.92	40.369		
10,500.00	7,806.95	7,997.38	7,673.06	73.45	44.49	-89.04	-5,908.26	4,057.24	3,691.22	3,596.08	95.14	38.796		
10,600.00	7,806.95	7,996.64	7,672.31	75.02	44.49	-89.03	-5,908.27	4,057.23	3,632.94	3,535.49	97.45	37.280		
10,700.00	7,806.94	7,995.88	7,671.56	76.61	44.49	-89.01	-5,908.27	4,057.21	3,576.50	3,476.66	99.84	35.822		
10,800.00	7,806.94	7,995.12	7,670.79	78.20	44.49	-89.00	-5,908.28	4,057.19	3,521.99	3,419.69	102.31	34.425		
10,900.00	7,806.94	7,994.34	7,670.02	79.80	44.49	-88.98	-5,908.29	4,057.17	3,469.52	3,364.67	104.85	33.091		
11,000.00	7,806.94	7,993.55	7,669.23	81.41	44.49	-88.97	-5,908.30	4,057.15	3,419.16	3,311.71	107.45	31.821		
11,100.00	7,806.93	7,992.76	7,668.44	83.02	44.49	-88.95	-5,908.31	4,057.13	3,371.02	3,260.91	110.11	30.615		
11,200.00	7,806.93	7,991.95	7,667.63	84.64	44.48	-88.94	-5,908.32	4,057.11	3,325.18	3,212.37	112.82	29.474		
11,300.00	7,806.93	7,991.13	7,666.81	86.27	44.48	-88.92	-5,908.33	4,057.09	3,281.76	3,166.19	115.56	28.398		
11,400.00	7,806.93	7,990.30	7,665.98	87.90	44.48	-88.90	-5,908.34	4,057.07	3,240.84	3,122.50	118.34	27.385		
11,500.00	7,806.92	7,989.46	7,665.14	89.54	44.48	-88.89	-5,908.35	4,057.05	3,202.52	3,081.38	121.14	26.437		
11,600.00	7,806.92	7,988.60	7,664.28	91.18	44.48	-88.87	-5,908.37	4,057.03	3,166.90	3,042.95	123.94	25.552		
11,700.00	7,806.92	7,987.73	7,663.41	92.83	44.48	-88.85	-5,908.38	4,057.01	3,134.06	3,007.32	126.74	24.728		
11,800.00	7,806.92	7,986.85	7,662.53	94.48	44.48	-88.84	-5,908.39	4,056.98	3,104.09	2,974.57	129.52	23.966		
11,900.00	7,806.91	7,985.96	7,661.64	96.14	44.47	-88.82	-5,908.40	4,056.96	3,077.09	2,944.82	132.27	23.263		
12,000.00	7,806.91	7,985.06	7,660.74	97.80	44.47	-88.80	-5,908.41	4,056.94	3,053.12	2,918.14	134.98	22.619		
12,100.00	7,806.91	7,984.14	7,659.82	99.46	44.47	-88.79	-5,908.42	4,056.92	3,032.27	2,894.64	137.63	22.032		
12,200.00	7,806.91	7,983.20	7,658.88	101.13	44.47	-88.77	-5,908.44	4,056.90	3,014.58	2,874.37	140.21	21.500		
12,300.00	7,806.90	7,982.26	7,657.94	102.80	44.47	-88.75	-5,908.45	4,056.88	3,000.13	2,857.42	142.71	21.022		
12,400.00	7,806.90	7,981.29	7,656.98	104.47	44.47	-88.73	-5,908.46	4,056.85	2,988.96	2,843.84	145.12	20.597		
12,500.00	7,806.90	7,980.32	7,656.00	106.15	44.46	-88.71	-5,908.47	4,056.83	2,981.10	2,833.68	147.41	20.223		
12,600.00	7,806.90	7,979.33	7,655.01	107.83	44.46	-88.69	-5,908.49	4,056.81	2,976.58	2,826.98	149.59	19.898		
12,684.69	7,806.89	7,978.47	7,654.16	109.26	44.46	-88.68	-5,908.50	4,056.79	2,975.37	2,824.03	151.34	19.660 CC		
12,700.00	7,806.89	7,978.32	7,654.00	109.52	44.46	-88.67	-5,908.50	4,056.78	2,975.41	2,823.76	151.65	19.620 ES		
12,800.00	7,806.89	7,977.30	7,652.98	111.20	44.46	-88.65	-5,908.52	4,056.76	2,977.60	2,824.03	153.57	19.389		
12,900.00	7,806.89	7,976.26	7,651.94	112.89	44.46	-88.63	-5,908.53	4,056.74	2,983.15	2,827.80	155.36	19.202		
13,000.00	7,806.89	7,975.20	7,650.89	114.59	44.45	-88.61	-5,908.55	4,056.71	2,992.03	2,835.04	156.99	19.058		
13,100.00	7,806.88	7,974.13	7,649.82	116.28	44.45	-88.59	-5,908.56	4,056.69	3,004.21	2,845.73	158.49	18.956		
13,200.00	7,806.88	7,973.04	7,648.73	117.98	44.45	-88.57	-5,908.58	4,056.66	3,019.66	2,859.83	159.83	18.893		
13,300.00	7,806.88	7,971.93	7,647.62	119.68	44.45	-88.55	-5,908.59	4,056.64	3,038.32	2,877.29	161.03	18.869 SF		
13,400.00	7,806.88	7,970.81	7,646.49	121.38	44.45	-88.53	-5,908.61	4,056.61	3,060.14	2,898.06	162.08	18.881		
13,500.00	7,806.88	7,969.66	7,645.35	123.08	44.44	-88.51	-5,908.63	4,056.59	3,085.04	2,922.06	162.98	18.929		
13,600.00	7,806.87	7,968.50	7,644.19	124.79	44.44	-88.48	-5,908.64	4,056.56	3,112.96	2,949.21	163.75	19.011		
13,700.00	7,806.87	7,967.32	7,643.00	126.49	44.44	-88.46	-5,908.66	4,056.54	3,143.81	2,979.43	164.38	19.125		
13,800.00	7,806.87	7,966.11	7,641.80	128.20	44.44	-88.44	-5,908.68	4,056.51	3,177.51	3,012.62	164.89	19.271		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
13,900.00	7,806.87	7,965.20	7,640.89	129.91	44.44	-88.42	-5,908.69	4,056.49	3,213.97	3,048.69	165.27	19.446		
14,000.00	7,806.86	7,963.81	7,639.50	131.62	44.43	-88.39	-5,908.72	4,056.46	3,253.09	3,087.55	165.55	19.651		
14,100.00	7,806.86	7,962.41	7,638.10	133.34	44.43	-88.37	-5,908.74	4,056.43	3,294.79	3,129.08	165.71	19.882		
14,200.00	7,806.86	7,961.01	7,636.70	135.05	44.43	-88.34	-5,908.76	4,056.40	3,338.96	3,173.18	165.78	20.141		
14,300.00	7,806.86	7,959.60	7,635.29	136.77	44.43	-88.31	-5,908.78	4,056.37	3,385.51	3,219.75	165.76	20.424		
14,400.00	7,806.85	7,958.18	7,633.87	138.49	44.42	-88.29	-5,908.80	4,056.34	3,434.34	3,268.68	165.66	20.731		
14,500.00	7,806.85	7,956.76	7,632.45	140.21	44.42	-88.26	-5,908.83	4,056.32	3,485.35	3,319.87	165.48	21.062		
14,600.00	7,806.85	7,955.33	7,631.02	141.93	44.42	-88.23	-5,908.85	4,056.29	3,538.45	3,373.21	165.24	21.414		
14,700.00	7,806.85	7,953.89	7,629.58	143.65	44.42	-88.20	-5,908.87	4,056.26	3,593.56	3,428.62	164.94	21.787		
14,800.00	7,806.84	7,952.44	7,628.14	145.37	44.41	-88.18	-5,908.89	4,056.23	3,650.57	3,485.98	164.58	22.181		
14,900.00	7,806.84	7,950.99	7,626.69	147.10	44.41	-88.15	-5,908.92	4,056.20	3,709.40	3,545.22	164.18	22.593		
15,000.00	7,806.84	7,949.53	7,625.23	148.83	44.41	-88.12	-5,908.94	4,056.17	3,769.96	3,606.22	163.74	23.024		
15,100.00	7,806.84	7,948.07	7,623.76	150.55	44.41	-88.09	-5,908.96	4,056.14	3,832.18	3,668.91	163.26	23.473		
15,200.00	7,806.83	7,946.59	7,622.29	152.28	44.40	-88.06	-5,908.99	4,056.11	3,895.96	3,733.21	162.76	23.938		
15,300.00	7,806.83	7,945.11	7,620.80	154.01	44.40	-88.03	-5,909.01	4,056.08	3,961.25	3,799.03	162.22	24.419		
15,400.00	7,806.83	7,943.62	7,619.32	155.74	44.40	-88.01	-5,909.03	4,056.05	4,027.96	3,866.29	161.67	24.915		
15,500.00	7,806.83	7,942.12	7,617.82	157.47	44.40	-87.98	-5,909.06	4,056.02	4,096.02	3,934.92	161.10	25.425		
15,600.00	7,806.82	7,940.62	7,616.31	159.20	44.39	-87.95	-5,909.08	4,055.99	4,165.38	4,004.86	160.52	25.950		
15,700.00	7,806.82	7,939.11	7,614.80	160.93	44.39	-87.92	-5,909.11	4,055.96	4,235.95	4,076.03	159.92	26.488		
15,800.00	7,806.82	7,937.59	7,613.28	162.67	44.39	-87.89	-5,909.13	4,055.93	4,307.70	4,148.38	159.32	27.038		
15,900.00	7,806.82	7,936.06	7,611.76	164.40	44.39	-87.86	-5,909.16	4,055.90	4,380.55	4,221.83	158.71	27.601		
16,000.00	7,806.81	7,934.52	7,610.22	166.14	44.38	-87.83	-5,909.18	4,055.87	4,454.45	4,296.35	158.10	28.175		
16,100.00	7,806.81	7,932.98	7,608.68	167.87	44.38	-87.80	-5,909.21	4,055.84	4,529.35	4,371.86	157.49	28.760		
16,200.00	7,806.81	7,931.43	7,607.13	169.61	44.38	-87.77	-5,909.23	4,055.81	4,605.21	4,448.33	156.88	29.355		
16,300.00	7,806.81	7,929.87	7,605.57	171.35	44.37	-87.74	-5,909.26	4,055.77	4,681.97	4,525.70	156.27	29.961		
16,400.00	7,806.81	7,928.30	7,604.00	173.09	44.37	-87.71	-5,909.28	4,055.74	4,759.60	4,603.93	155.66	30.576		
16,500.00	7,806.80	7,926.72	7,602.43	174.83	44.37	-87.68	-5,909.31	4,055.71	4,838.05	4,682.98	155.06	31.200		
16,600.00	7,806.80	7,925.14	7,600.84	176.57	44.37	-87.65	-5,909.34	4,055.68	4,917.27	4,762.81	154.47	31.833		
16,700.00	7,806.80	7,923.55	7,599.25	178.31	44.36	-87.62	-5,909.36	4,055.65	4,997.25	4,843.37	153.88	32.475		
16,800.00	7,806.80	7,921.95	7,597.65	180.05	44.36	-87.59	-5,909.39	4,055.62	5,077.93	4,924.63	153.30	33.125		
16,900.00	7,806.79	7,920.34	7,596.04	181.79	44.36	-87.56	-5,909.42	4,055.59	5,159.29	5,006.56	152.72	33.782		
17,000.00	7,806.79	7,918.72	7,594.42	183.53	44.36	-87.53	-5,909.44	4,055.56	5,241.29	5,089.13	152.16	34.446		
17,100.00	7,806.79	7,917.09	7,592.80	185.27	44.35	-87.49	-5,909.47	4,055.53	5,323.91	5,172.31	151.60	35.118		
17,200.00	7,806.79	7,915.46	7,591.16	187.02	44.35	-87.46	-5,909.50	4,055.50	5,407.11	5,256.06	151.05	35.796		
17,300.00	7,806.78	7,913.82	7,589.52	188.76	44.35	-87.43	-5,909.53	4,055.47	5,490.88	5,340.36	150.51	36.481		
17,400.00	7,806.78	7,912.16	7,587.87	190.51	44.34	-87.40	-5,909.55	4,055.44	5,575.18	5,425.19	149.98	37.172		
17,500.00	7,806.78	7,910.50	7,586.21	192.25	44.34	-87.37	-5,909.58	4,055.41	5,659.99	5,510.52	149.46	37.869		
17,600.00	7,806.78	7,908.83	7,584.54	194.00	44.34	-87.34	-5,909.61	4,055.38	5,745.28	5,596.33	148.95	38.571		
17,700.00	7,806.77	7,907.15	7,582.86	195.74	44.34	-87.30	-5,909.64	4,055.35	5,831.05	5,682.60	148.45	39.279		
17,800.00	7,806.77	7,905.47	7,581.17	197.49	44.33	-87.27	-5,909.67	4,055.32	5,917.26	5,769.30	147.96	39.992		
17,900.00	7,806.77	7,903.77	7,579.48	199.24	44.33	-87.24	-5,909.70	4,055.28	6,003.90	5,856.42	147.48	40.710		
17,973.82	7,807.00	7,902.74	7,578.45	200.53	44.33	-87.21	-5,909.72	4,055.27	6,068.19	5,921.06	147.13	41.243		
17,974.53	7,807.00	7,902.73	7,578.44	200.55	44.33	-87.21	-5,909.72	4,055.27	6,068.82	5,920.64	148.17	40.958		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	130.52	-3,975.15	4,650.56	6,118.52					
100.00	100.00	18.25	18.25	0.13	0.03	130.52	-3,975.15	4,650.55	6,117.96	6,117.79	0.17	N/A		
200.00	200.00	125.63	125.63	0.49	0.22	130.52	-3,975.16	4,650.43	6,117.88	6,117.16	0.72	8,543.211		
300.00	300.00	233.01	233.01	0.85	0.41	130.53	-3,975.20	4,650.11	6,117.68	6,116.41	1.27	4,834.751		
400.00	400.00	340.39	340.39	1.21	0.60	130.53	-3,975.26	4,649.60	6,117.36	6,115.54	1.81	3,371.201		
500.00	500.00	447.76	447.76	1.57	0.80	130.53	-3,975.35	4,648.90	6,116.91	6,114.55	2.36	2,587.725		
600.00	600.00	555.13	555.13	1.93	0.99	130.54	-3,975.46	4,648.01	6,116.35	6,113.44	2.91	2,099.650		
700.00	700.00	662.50	662.49	2.29	1.18	130.55	-3,975.59	4,646.93	6,115.67	6,112.20	3.46	1,766.394		
800.00	800.00	769.87	769.84	2.64	1.37	130.56	-3,975.75	4,645.66	6,114.86	6,110.85	4.01	1,524.365		
900.00	900.00	877.22	877.19	3.00	1.56	130.57	-3,975.93	4,644.20	6,113.94	6,109.38	4.56	1,340.605		
1,000.00	1,000.00	984.58	984.53	3.36	1.75	130.58	-3,976.13	4,642.55	6,112.89	6,107.78	5.11	1,196.325		
1,100.00	1,100.00	1,091.92	1,091.86	3.72	1.94	130.59	-3,976.36	4,640.71	6,111.73	6,106.07	5.66	1,080.031		
1,200.00	1,199.98	1,199.22	1,199.14	4.06	2.13	-2.58	-3,976.61	4,638.68	6,108.70	6,102.51	6.19	986.338		
1,300.00	1,299.84	1,297.78	1,297.68	4.40	2.57	-2.58	-3,976.82	4,636.82	6,102.18	6,095.22	6.96	876.244		
1,400.00	1,399.45	1,411.26	1,411.14	4.74	2.98	-2.58	-3,977.00	4,634.57	6,092.08	6,084.37	7.71	790.141		
1,500.00	1,498.70	1,531.36	1,531.21	5.09	3.41	-2.58	-3,976.99	4,631.85	6,078.20	6,069.72	8.48	716.515		
1,600.00	1,597.47	1,642.36	1,642.18	5.46	3.81	-2.59	-3,976.77	4,629.03	6,060.54	6,051.32	9.23	656.929		
1,700.00	1,695.62	1,724.62	1,724.41	5.85	4.11	-2.60	-3,976.60	4,627.00	6,039.51	6,029.64	9.87	612.072		
1,800.00	1,793.06	1,799.21	1,798.99	6.27	4.38	-2.62	-3,976.44	4,625.47	6,015.40	6,004.91	10.48	573.773		
1,867.07	1,857.94	1,841.23	1,841.00	6.57	4.53	-2.64	-3,976.40	4,624.81	5,997.61	5,986.74	10.87	551.683		
1,900.00	1,889.69	1,852.00	1,851.77	6.72	4.57	-2.64	-3,976.38	4,624.67	5,988.59	5,977.57	11.03	543.102		
2,000.00	1,986.13	1,905.20	1,904.96	7.19	4.75	-2.65	-3,976.21	4,624.49	5,961.74	5,950.18	11.56	515.737		
2,100.00	2,082.57	1,964.85	1,964.61	7.68	4.94	-2.66	-3,975.86	4,625.03	5,935.60	5,923.49	12.11	490.166		
2,200.00	2,179.00	2,066.37	2,066.11	8.18	5.28	-2.69	-3,974.78	4,626.71	5,909.71	5,896.91	12.80	461.710		
2,300.00	2,275.44	2,168.63	2,168.31	8.69	5.62	-2.74	-3,972.60	4,629.21	5,883.74	5,870.24	13.50	435.817		
2,400.00	2,371.88	2,254.27	2,253.88	9.21	5.90	-2.79	-3,970.03	4,631.96	5,857.79	5,843.64	14.15	413.876		
2,500.00	2,468.31	2,363.91	2,363.39	9.74	6.28	-2.86	-3,966.47	4,635.85	5,831.95	5,817.06	14.89	391.646		
2,600.00	2,564.75	2,456.20	2,455.58	10.28	6.59	-2.91	-3,963.44	4,638.96	5,805.95	5,790.37	15.58	372.742		
2,700.00	2,661.19	2,550.47	2,549.73	10.82	6.91	-2.97	-3,960.18	4,642.41	5,780.05	5,763.78	16.27	355.202		
2,800.00	2,757.62	2,629.44	2,628.58	11.37	7.19	-3.03	-3,957.29	4,645.59	5,754.30	5,737.38	16.92	340.049		
2,900.00	2,854.06	2,737.42	2,736.43	11.92	7.56	-3.10	-3,953.83	4,649.55	5,728.59	5,710.92	17.67	324.190		
3,000.00	2,950.50	2,853.02	2,851.95	12.47	7.97	-3.16	-3,951.14	4,652.45	5,702.57	5,684.12	18.45	309.152		
3,100.00	3,046.93	2,969.55	2,968.47	13.03	8.37	-3.20	-3,949.58	4,653.90	5,676.23	5,657.00	19.23	295.252		
3,200.00	3,143.37	3,035.02	3,033.93	13.59	8.60	-3.22	-3,948.89	4,654.73	5,650.06	5,630.22	19.84	284.797		
3,300.00	3,239.81	3,152.57	3,151.42	14.15	9.01	-3.27	-3,946.35	4,657.22	5,623.86	5,603.23	20.63	272.658		
3,400.00	3,336.24	3,259.18	3,257.90	14.72	9.39	-3.35	-3,942.35	4,660.66	5,597.51	5,576.13	21.38	261.793		
3,500.00	3,432.68	3,359.68	3,358.22	15.28	9.75	-3.43	-3,937.60	4,664.36	5,570.88	5,548.76	22.12	251.849		
3,600.00	3,529.12	3,438.67	3,437.06	15.85	10.03	-3.49	-3,933.81	4,667.51	5,544.46	5,521.67	22.79	243.284		
3,700.00	3,625.55	3,515.50	3,513.75	16.42	10.31	-3.56	-3,930.44	4,670.67	5,518.39	5,494.94	23.45	235.279		
3,800.00	3,721.99	3,597.90	3,596.00	16.99	10.60	-3.62	-3,927.11	4,674.13	5,492.61	5,468.47	24.14	227.544		
3,900.00	3,818.43	3,736.56	3,734.41	17.56	11.10	-3.74	-3,920.93	4,679.78	5,466.44	5,441.43	25.01	218.590		
4,000.00	3,914.86	3,861.28	3,858.86	18.14	11.55	-3.85	-3,914.43	4,684.90	5,439.93	5,414.09	25.83	210.582		
4,100.00	4,011.30	3,953.65	3,951.05	18.71	11.88	-3.93	-3,909.78	4,688.08	5,413.00	5,386.45	26.55	203.846		
4,200.00	4,107.74	4,020.91	4,018.18	19.29	12.13	-3.99	-3,906.42	4,690.66	5,386.42	5,359.22	27.20	198.054		
4,300.00	4,204.17	4,090.12	4,087.28	19.86	12.38	-4.05	-3,903.55	4,693.43	5,360.45	5,332.61	27.85	192.503		
4,400.00	4,300.61	4,193.30	4,190.28	20.44	12.75	-4.14	-3,899.10	4,697.66	5,334.49	5,305.88	28.61	186.487		
4,500.00	4,397.05	4,265.00	4,261.83	21.02	13.01	-4.21	-3,895.93	4,701.00	5,308.88	5,279.61	29.27	181.404		
4,600.00	4,493.48	4,352.94	4,349.59	21.59	13.33	-4.29	-3,892.22	4,705.32	5,283.59	5,253.61	29.98	176.245		
4,700.00	4,589.92	4,476.92	4,473.29	22.17	13.78	-4.41	-3,886.49	4,711.28	5,258.00	5,227.19	30.81	170.668		
4,800.00	4,686.36	4,567.17	4,563.29	22.75	14.11	-4.50	-3,881.73	4,716.00	5,232.34	5,200.81	31.53	165.932		
4,900.00	4,782.79	4,725.00	4,720.84	23.33	14.69	-4.65	-3,874.88	4,722.04	5,206.27	5,173.81	32.46	160.368		
5,000.00	4,879.23	4,843.03	4,838.80	23.91	15.11	-4.72	-3,871.33	4,723.88	5,179.25	5,145.98	33.27	155.694		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,913.14	4,908.83	24.49	15.37	-4.77	-3,868.65	4,725.55	5,152.35	5,118.43	33.93	151.867		
5,200.00	5,072.10	4,987.31	4,982.90	25.07	15.64	-4.84	-3,865.63	4,727.87	5,125.90	5,091.30	34.60	148.142		
5,300.00	5,168.54	5,069.62	5,065.07	25.66	15.94	-4.92	-3,861.89	4,731.17	5,099.82	5,064.52	35.30	144.458		
5,400.00	5,264.98	5,185.29	5,180.47	26.24	16.36	-5.04	-3,855.81	4,736.12	5,073.52	5,037.42	36.11	140.506		
5,500.00	5,361.41	5,260.57	5,255.59	26.82	16.64	-5.12	-3,852.01	4,739.32	5,047.38	5,010.58	36.79	137.183		
5,600.00	5,457.85	5,323.91	5,318.80	27.40	16.87	-5.18	-3,849.14	4,742.21	5,021.78	4,984.33	37.44	134.125		
5,700.00	5,554.29	5,402.56	5,397.28	27.99	17.16	-5.26	-3,845.87	4,746.13	4,996.72	4,958.59	38.14	131.024		
5,800.00	5,650.72	5,504.87	5,499.36	28.57	17.53	-5.37	-3,841.52	4,751.47	4,971.82	4,932.92	38.90	127.797		
5,900.00	5,747.16	5,627.72	5,621.89	29.15	17.99	-5.51	-3,835.49	4,757.93	4,946.57	4,906.84	39.74	124.486		
6,000.00	5,843.60	5,735.45	5,729.39	29.74	18.38	-5.63	-3,830.43	4,762.87	4,920.95	4,880.43	40.52	121.443		
6,100.00	5,940.03	5,834.66	5,828.40	30.32	18.75	-5.74	-3,825.94	4,767.15	4,895.24	4,853.96	41.28	118.587		
6,200.00	6,036.47	5,949.64	5,943.15	30.90	19.17	-5.86	-3,820.40	4,771.89	4,869.22	4,827.14	42.09	115.699		
6,300.00	6,132.91	6,039.78	6,033.10	31.49	19.50	-5.96	-3,815.96	4,775.59	4,843.14	4,800.32	42.82	113.105		
6,400.00	6,229.34	6,122.58	6,115.73	32.07	19.81	-6.06	-3,811.97	4,779.14	4,817.29	4,773.75	43.53	110.655		
6,500.00	6,325.78	6,203.76	6,196.76	32.66	20.10	-6.15	-3,808.38	4,782.71	4,791.76	4,747.51	44.24	108.303		
6,552.14	6,376.06	6,274.12	6,267.01	32.96	20.36	-6.22	-3,805.63	4,785.46	4,778.41	4,733.72	44.69	106.918		
6,600.00	6,422.32	6,337.15	6,329.97	33.24	20.59	-6.25	-3,803.48	4,787.37	4,766.38	4,721.28	45.10	105.693		
6,700.00	6,519.60	6,425.31	6,418.08	33.78	20.91	-6.26	-3,801.34	4,789.23	4,743.57	4,697.76	45.81	103.548		
6,800.00	6,617.63	6,539.51	6,532.27	34.27	21.31	-6.27	-3,800.32	4,790.47	4,724.29	4,677.71	46.58	101.420		
6,900.00	6,716.28	6,636.93	6,629.69	34.72	21.66	-6.27	-3,799.56	4,791.08	4,708.11	4,660.81	47.30	99.538		
7,000.00	6,815.45	6,720.96	6,713.71	35.13	21.95	-6.26	-3,799.26	4,791.55	4,695.57	4,647.59	47.97	97.881		
7,100.00	6,915.00	6,815.13	6,807.88	35.49	22.28	-6.26	-3,799.10	4,792.24	4,686.72	4,638.06	48.66	96.316		
7,200.00	7,014.82	6,914.79	6,907.54	35.81	22.63	-6.26	-3,798.92	4,793.03	4,681.37	4,632.02	49.35	94.860		
7,300.00	7,114.79	7,012.99	7,005.73	36.09	22.97	-6.27	-3,798.88	4,793.71	4,679.50	4,629.48	50.02	93.544		
7,303.12	7,117.91	7,016.04	7,008.79	36.10	22.98	-6.27	-3,798.88	4,793.73	4,679.50	4,629.46	50.05	93.505		
7,319.21	7,134.00	7,031.79	7,024.53	36.14	23.03	126.92	-3,798.88	4,793.84	4,679.55	4,629.40	50.15	93.309		
7,400.00	7,214.79	7,110.39	7,103.13	36.33	23.31	126.92	-3,798.93	4,794.39	4,680.02	4,629.35	50.67	92.364		
7,419.21	7,234.00	7,127.88	7,120.63	36.37	23.37	126.91	-3,798.95	4,794.51	4,680.14	4,629.35	50.79	92.147		
7,450.00	7,264.77	7,153.37	7,146.12	36.46	23.45	-52.77	-3,798.98	4,794.71	4,679.86	4,628.88	50.98	91.794		
7,500.00	7,314.52	7,194.58	7,187.32	36.62	23.60	-53.02	-3,799.02	4,795.12	4,677.35	4,626.04	51.31	91.158		
7,550.00	7,363.66	7,237.41	7,230.14	36.81	23.74	-53.50	-3,799.08	4,795.62	4,672.31	4,620.65	51.66	90.450		
7,600.00	7,411.80	7,281.73	7,274.46	37.03	23.90	-54.24	-3,799.25	4,796.12	4,664.76	4,612.75	52.02	89.675		
7,650.00	7,458.60	7,321.67	7,314.40	37.29	24.03	-55.21	-3,799.49	4,796.54	4,654.79	4,602.41	52.38	88.864		
7,700.00	7,503.68	7,353.67	7,346.40	37.57	24.14	-56.40	-3,799.73	4,796.95	4,642.55	4,589.82	52.73	88.038		
7,750.00	7,546.72	7,384.26	7,376.99	37.89	24.25	-57.83	-3,799.98	4,797.42	4,628.19	4,575.10	53.09	87.170		
7,800.00	7,587.37	7,414.09	7,406.81	38.23	24.35	-59.51	-3,800.26	4,797.95	4,611.84	4,558.38	53.46	86.262		
7,850.00	7,625.34	7,444.49	7,437.20	38.59	24.46	-61.44	-3,800.60	4,798.54	4,593.63	4,539.79	53.84	85.312		
7,900.00	7,660.33	7,472.66	7,465.36	38.99	24.55	-63.61	-3,800.97	4,799.09	4,573.72	4,519.49	54.23	84.335		
7,950.00	7,692.07	7,498.40	7,491.09	39.40	24.64	-66.00	-3,801.36	4,799.61	4,552.30	4,497.67	54.63	83.334		
8,000.00	7,720.33	7,522.27	7,514.96	39.85	24.72	-68.61	-3,801.77	4,800.10	4,529.56	4,474.53	55.03	82.311		
8,050.00	7,744.88	7,543.37	7,536.04	40.31	24.79	-71.41	-3,802.16	4,800.53	4,505.72	4,450.28	55.44	81.273		
8,100.00	7,765.55	7,561.37	7,554.04	40.79	24.85	-74.36	-3,802.52	4,800.90	4,480.97	4,425.12	55.86	80.225		
8,150.00	7,782.18	7,576.12	7,568.78	41.30	24.90	-77.42	-3,802.84	4,801.21	4,455.56	4,399.28	56.28	79.171		
8,200.00	7,794.63	7,587.48	7,580.14	41.81	24.94	-80.55	-3,803.10	4,801.44	4,429.70	4,373.00	56.71	78.117		
8,250.00	7,802.82	7,595.34	7,587.99	42.34	24.97	-83.70	-3,803.28	4,801.60	4,403.62	4,346.48	57.14	77.067		
8,300.00	7,806.68	7,601.64	7,594.30	42.88	24.99	-86.84	-3,803.43	4,801.73	4,377.52	4,319.94	57.58	76.022		
8,319.29	7,807.00	7,602.81	7,595.46	43.09	25.00	-88.03	-3,803.45	4,801.76	4,367.50	4,309.75	57.75	75.624		
8,400.00	7,807.00	7,605.59	7,598.24	43.98	25.00	-88.07	-3,803.52	4,801.81	4,326.20	4,267.69	58.51	73.946		
8,500.00	7,807.00	7,608.93	7,601.58	45.12	25.02	-88.12	-3,803.59	4,801.88	4,276.58	4,217.03	59.55	71.817		
8,600.00	7,806.99	7,612.17	7,604.82	46.31	25.03	-88.17	-3,803.66	4,801.95	4,228.74	4,168.03	60.71	69.655		
8,700.00	7,806.99	7,615.32	7,607.96	47.53	25.04	-88.22	-3,803.73	4,802.01	4,182.75	4,120.76	61.98	67.481		
8,800.00	7,806.99	7,618.37	7,611.01	48.78	25.05	-88.27	-3,803.80	4,802.07	4,138.66	4,075.29	63.37	65.313		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	7,621.33	7,613.97	50.07	25.06	-88.31	-3,803.86	4,802.13	4,096.53	4,031.68	64.85	63.169		
9,000.00	7,806.98	7,624.20	7,616.84	51.38	25.07	-88.36	-3,803.92	4,802.19	4,056.44	3,990.01	66.43	61.064		
9,100.00	7,806.98	7,626.99	7,619.63	52.72	25.08	-88.40	-3,803.98	4,802.24	4,018.43	3,950.33	68.10	59.012		
9,200.00	7,806.98	7,629.71	7,622.35	54.09	25.09	-88.44	-3,804.04	4,802.30	3,982.56	3,912.72	69.84	57.024		
9,300.00	7,806.98	7,632.35	7,624.98	55.48	25.10	-88.48	-3,804.09	4,802.35	3,948.91	3,877.25	71.66	55.107		
9,400.00	7,806.97	7,634.91	7,627.55	56.89	25.10	-88.52	-3,804.14	4,802.40	3,917.51	3,843.97	73.54	53.270		
9,500.00	7,806.97	7,637.41	7,630.05	58.32	25.11	-88.56	-3,804.19	4,802.45	3,888.43	3,812.96	75.48	51.517		
9,600.00	7,806.97	7,639.84	7,632.48	59.77	25.12	-88.60	-3,804.23	4,802.50	3,861.73	3,784.26	77.46	49.851		
9,700.00	7,806.97	7,642.21	7,634.84	61.23	25.13	-88.63	-3,804.28	4,802.54	3,837.44	3,757.95	79.49	48.275		
9,800.00	7,806.96	7,644.51	7,637.15	62.71	25.14	-88.67	-3,804.32	4,802.59	3,815.62	3,734.07	81.55	46.788		
9,900.00	7,806.96	7,646.76	7,639.39	64.21	25.15	-88.70	-3,804.36	4,802.63	3,796.31	3,712.67	83.63	45.392		
10,000.00	7,806.96	7,648.95	7,641.58	65.72	25.15	-88.74	-3,804.40	4,802.67	3,779.54	3,693.81	85.73	44.085		
10,100.00	7,806.96	7,651.08	7,643.71	67.24	25.16	-88.77	-3,804.44	4,802.72	3,765.36	3,677.51	87.84	42.865		
10,200.00	7,806.95	7,653.17	7,645.80	68.78	25.17	-88.80	-3,804.48	4,802.76	3,753.78	3,663.83	89.95	41.731		
10,300.00	7,806.95	7,655.20	7,647.83	70.32	25.17	-88.83	-3,804.52	4,802.79	3,744.84	3,652.79	92.06	40.680		
10,400.00	7,806.95	7,657.18	7,649.81	71.88	25.18	-88.86	-3,804.55	4,802.83	3,738.55	3,644.41	94.15	39.710		
10,500.00	7,806.95	7,659.12	7,651.74	73.45	25.19	-88.89	-3,804.58	4,802.87	3,734.93	3,638.72	96.22	38.818		
10,585.31	7,806.95	7,660.73	7,653.36	74.79	25.19	-88.92	-3,804.61	4,802.90	3,733.96	3,636.00	97.96	38.117 CC		
10,600.00	7,806.95	7,661.01	7,653.63	75.02	25.19	-88.92	-3,804.61	4,802.91	3,733.99	3,635.73	98.26	38.001		
10,700.00	7,806.94	7,662.85	7,655.48	76.61	25.20	-88.95	-3,804.65	4,802.94	3,735.72	3,635.45	100.27	37.257 ES		
10,800.00	7,806.94	7,664.66	7,657.28	78.20	25.21	-88.98	-3,804.68	4,802.97	3,740.13	3,637.88	102.24	36.581		
10,900.00	7,806.94	7,666.42	7,659.05	79.80	25.21	-89.00	-3,804.70	4,803.01	3,747.19	3,643.02	104.17	35.972		
11,000.00	7,806.94	7,668.14	7,660.77	81.41	25.22	-89.03	-3,804.73	4,803.04	3,756.91	3,650.86	106.05	35.426		
11,100.00	7,806.93	7,669.83	7,662.45	83.02	25.22	-89.06	-3,804.76	4,803.07	3,769.26	3,661.38	107.88	34.940		
11,200.00	7,806.93	7,671.48	7,664.10	84.64	25.23	-89.08	-3,804.79	4,803.10	3,784.20	3,674.55	109.65	34.512		
11,300.00	7,806.93	7,673.09	7,665.71	86.27	25.23	-89.11	-3,804.81	4,803.13	3,801.72	3,690.36	111.36	34.139		
11,400.00	7,806.93	7,674.67	7,667.29	87.90	25.24	-89.13	-3,804.84	4,803.16	3,821.78	3,708.77	113.01	33.819		
11,500.00	7,806.92	7,676.21	7,668.83	89.54	25.25	-89.15	-3,804.86	4,803.19	3,844.33	3,729.74	114.59	33.548		
11,600.00	7,806.92	7,677.72	7,670.34	91.18	25.25	-89.18	-3,804.88	4,803.22	3,869.34	3,753.22	116.11	33.324		
11,700.00	7,806.92	7,679.20	7,671.82	92.83	25.26	-89.20	-3,804.90	4,803.25	3,896.75	3,779.18	117.56	33.146		
11,800.00	7,806.92	7,680.65	7,673.27	94.48	25.26	-89.22	-3,804.93	4,803.27	3,926.52	3,807.57	118.95	33.010		
11,900.00	7,806.91	7,682.07	7,674.69	96.14	25.27	-89.24	-3,804.95	4,803.30	3,958.59	3,838.32	120.26	32.916		
12,000.00	7,806.91	7,683.46	7,676.08	97.80	25.27	-89.27	-3,804.97	4,803.33	3,992.90	3,871.39	121.51	32.860		
12,100.00	7,806.91	7,684.83	7,677.45	99.46	25.27	-89.29	-3,804.99	4,803.35	4,029.41	3,906.71	122.70	32.841 SF		
12,200.00	7,806.91	7,686.16	7,678.78	101.13	25.28	-89.31	-3,805.01	4,803.38	4,068.05	3,944.23	123.81	32.857		
12,300.00	7,806.90	7,687.47	7,680.09	102.80	25.28	-89.33	-3,805.02	4,803.40	4,108.75	3,983.89	124.86	32.906		
12,400.00	7,806.90	7,688.76	7,681.38	104.47	25.29	-89.35	-3,805.04	4,803.42	4,151.47	4,025.62	125.85	32.987		
12,500.00	7,806.90	7,690.02	7,682.64	106.15	25.29	-89.37	-3,805.06	4,803.45	4,196.14	4,069.36	126.78	33.098		
12,600.00	7,806.90	7,691.26	7,683.87	107.83	25.30	-89.39	-3,805.08	4,803.47	4,242.69	4,115.04	127.64	33.238		
12,700.00	7,806.89	7,692.53	7,685.15	109.52	25.30	-89.40	-3,805.09	4,803.49	4,291.07	4,162.61	128.45	33.405		
12,800.00	7,806.89	7,693.89	7,686.51	111.20	25.31	-89.43	-3,805.11	4,803.52	4,341.21	4,212.00	129.21	33.598		
12,900.00	7,806.89	7,695.24	7,687.86	112.89	25.31	-89.45	-3,805.13	4,803.54	4,393.05	4,263.14	129.91	33.816		
13,000.00	7,806.89	7,696.59	7,689.21	114.59	25.32	-89.47	-3,805.15	4,803.57	4,446.54	4,315.98	130.56	34.057		
13,100.00	7,806.88	7,697.93	7,690.55	116.28	25.32	-89.49	-3,805.17	4,803.59	4,501.62	4,370.45	131.17	34.320		
13,200.00	7,806.88	7,699.27	7,691.89	117.98	25.32	-89.51	-3,805.18	4,803.61	4,558.22	4,426.50	131.72	34.605		
13,300.00	7,806.88	7,700.61	7,693.22	119.68	25.33	-89.53	-3,805.20	4,803.64	4,616.30	4,484.07	132.23	34.910		
13,400.00	7,806.88	7,701.94	7,694.55	121.38	25.33	-89.55	-3,805.22	4,803.66	4,675.79	4,543.09	132.71	35.234		
13,500.00	7,806.88	7,703.26	7,695.88	123.08	25.34	-89.57	-3,805.24	4,803.69	4,736.65	4,603.51	133.14	35.577		
13,600.00	7,806.87	7,704.58	7,697.20	124.79	25.34	-89.59	-3,805.26	4,803.71	4,798.82	4,665.29	133.53	35.938		
13,700.00	7,806.87	7,705.90	7,698.51	126.49	25.35	-89.61	-3,805.27	4,803.73	4,862.25	4,728.36	133.89	36.315		
13,800.00	7,806.87	7,707.21	7,699.82	128.20	25.35	-89.63	-3,805.29	4,803.76	4,926.89	4,792.67	134.22	36.708		
13,900.00	7,806.87	7,708.52	7,701.13	129.91	25.36	-89.65	-3,805.31	4,803.78	4,992.70	4,858.19	134.51	37.116		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,709.82	7,702.43	131.62	25.36	-89.67	-3,805.32	4,803.80	5,059.63	4,924.85	134.78	37.539		
14,100.00	7,806.86	7,711.11	7,703.73	133.34	25.36	-89.69	-3,805.34	4,803.83	5,127.64	4,992.62	135.02	37.976		
14,200.00	7,806.86	7,712.41	7,705.02	135.05	25.37	-89.71	-3,805.36	4,803.85	5,196.68	5,061.44	135.24	38.427		
14,300.00	7,806.86	7,713.70	7,706.31	136.77	25.37	-89.73	-3,805.38	4,803.87	5,266.71	5,131.28	135.43	38.890		
14,400.00	7,806.85	7,714.98	7,707.59	138.49	25.38	-89.75	-3,805.39	4,803.90	5,337.70	5,202.10	135.59	39.365		
14,500.00	7,806.85	7,716.26	7,708.87	140.21	25.38	-89.77	-3,805.41	4,803.92	5,409.60	5,273.86	135.74	39.852		
14,600.00	7,806.85	7,717.53	7,710.15	141.93	25.39	-89.79	-3,805.43	4,803.94	5,482.39	5,346.52	135.87	40.350		
14,700.00	7,806.85	7,718.81	7,711.42	143.65	25.39	-89.81	-3,805.44	4,803.97	5,556.02	5,420.04	135.98	40.858		
14,800.00	7,806.84	7,720.07	7,712.68	145.37	25.40	-89.83	-3,805.46	4,803.99	5,630.46	5,494.39	136.08	41.377		
14,900.00	7,806.84	7,721.33	7,713.94	147.10	25.40	-89.85	-3,805.48	4,804.01	5,705.69	5,569.53	136.16	41.906		
15,000.00	7,806.84	7,722.59	7,715.20	148.83	25.40	-89.87	-3,805.49	4,804.03	5,781.67	5,645.45	136.22	42.444		
15,100.00	7,806.84	7,723.84	7,716.45	150.55	25.41	-89.89	-3,805.51	4,804.06	5,858.36	5,722.09	136.27	42.991		
15,200.00	7,806.83	7,725.09	7,717.70	152.28	25.41	-89.90	-3,805.52	4,804.08	5,935.75	5,799.44	136.31	43.546		
15,300.00	7,806.83	7,726.34	7,718.95	154.01	25.42	-89.92	-3,805.54	4,804.10	6,013.81	5,877.47	136.34	44.110		
15,400.00	7,806.83	7,727.58	7,720.19	155.74	25.42	-89.94	-3,805.56	4,804.12	6,092.51	5,956.15	136.35	44.681		
15,500.00	7,806.83	7,728.81	7,721.42	157.47	25.43	-89.96	-3,805.57	4,804.15	6,171.82	6,035.46	136.36	45.261		
15,600.00	7,806.82	7,730.05	7,722.65	159.20	25.43	-89.98	-3,805.59	4,804.17	6,251.73	6,115.37	136.36	45.847		
15,700.00	7,806.82	7,731.27	7,723.88	160.93	25.43	-90.00	-3,805.60	4,804.19	6,332.21	6,195.86	136.35	46.440		
15,800.00	7,806.82	7,732.50	7,725.11	162.67	25.44	-90.02	-3,805.62	4,804.21	6,413.24	6,276.90	136.33	47.040		
15,900.00	7,806.82	7,733.72	7,726.32	164.40	25.44	-90.04	-3,805.64	4,804.23	6,494.80	6,358.48	136.31	47.647		
16,000.00	7,806.81	7,734.93	7,727.54	166.14	25.45	-90.06	-3,805.65	4,804.25	6,576.86	6,440.58	136.28	48.260		
16,100.00	7,806.81	7,736.14	7,728.75	167.87	25.45	-90.07	-3,805.67	4,804.28	6,659.42	6,523.17	136.25	48.878		
16,200.00	7,806.81	7,737.35	7,729.96	169.61	25.45	-90.09	-3,805.68	4,804.30	6,742.44	6,606.24	136.20	49.502		
16,300.00	7,806.81	7,738.55	7,731.16	171.35	25.46	-90.11	-3,805.70	4,804.32	6,825.93	6,689.77	136.16	50.132		
16,400.00	7,806.81	7,739.75	7,732.36	173.09	25.46	-90.13	-3,805.71	4,804.34	6,909.85	6,773.74	136.11	50.767		
16,500.00	7,806.80	7,740.95	7,733.55	174.83	25.47	-90.15	-3,805.73	4,804.36	6,994.19	6,858.14	136.06	51.407		
16,600.00	7,806.80	7,742.14	7,734.74	176.57	25.47	-90.17	-3,805.74	4,804.38	7,078.94	6,942.94	136.00	52.052		
16,700.00	7,806.80	7,743.33	7,735.93	178.31	25.48	-90.18	-3,805.76	4,804.40	7,164.09	7,028.15	135.94	52.701		
16,800.00	7,806.80	7,744.51	7,737.11	180.05	25.48	-90.20	-3,805.77	4,804.42	7,249.61	7,113.74	135.87	53.355		
16,900.00	7,806.79	7,745.69	7,738.29	181.79	25.48	-90.22	-3,805.79	4,804.44	7,335.50	7,199.69	135.81	54.014		
17,000.00	7,806.79	7,746.86	7,739.47	183.53	25.49	-90.24	-3,805.80	4,804.47	7,421.74	7,286.00	135.74	54.676		
17,100.00	7,806.79	7,748.04	7,740.64	185.27	25.49	-90.26	-3,805.82	4,804.49	7,508.32	7,372.65	135.67	55.343		
17,200.00	7,806.79	7,749.20	7,741.81	187.02	25.50	-90.27	-3,805.83	4,804.51	7,595.24	7,459.64	135.60	56.013		
17,300.00	7,806.78	7,750.37	7,742.97	188.76	25.50	-90.29	-3,805.85	4,804.53	7,682.47	7,546.94	135.52	56.687		
17,400.00	7,806.78	7,751.53	7,744.13	190.51	25.50	-90.31	-3,805.86	4,804.55	7,770.01	7,634.56	135.45	57.364		
17,500.00	7,806.78	7,752.68	7,745.29	192.25	25.51	-90.33	-3,805.88	4,804.57	7,857.84	7,722.47	135.37	58.045		
17,600.00	7,806.78	7,753.83	7,746.44	194.00	25.51	-90.35	-3,805.89	4,804.59	7,945.97	7,810.67	135.30	58.730		
17,700.00	7,806.77	7,754.98	7,747.59	195.74	25.52	-90.36	-3,805.90	4,804.61	8,034.37	7,899.15	135.22	59.417		
17,800.00	7,806.77	7,756.13	7,748.73	197.49	25.52	-90.38	-3,805.92	4,804.63	8,123.04	7,987.89	135.14	60.107		
17,900.00	7,806.77	7,757.27	7,749.87	199.24	25.52	-90.40	-3,805.93	4,804.65	8,211.97	8,076.90	135.06	60.801		
17,973.82	7,807.00	7,758.32	7,750.92	200.53	25.53	-90.41	-3,805.95	4,804.67	8,277.84	8,142.83	135.01	61.313		
17,974.53	7,807.00	7,758.33	7,750.93	200.55	25.53	-90.41	-3,805.95	4,804.67	8,278.48	8,142.28	136.20	60.783		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	130.58	-3,992.63	4,661.76	6,138.42					
100.00	100.00	0.00	0.00	0.13	0.00	130.58	-3,992.63	4,661.76	6,137.87	6,137.73	0.13	N/A		
200.00	200.00	61.00	61.00	0.49	0.09	130.58	-3,992.88	4,662.04	6,138.46	6,137.89	0.58	N/A		
300.00	300.00	94.80	94.79	0.85	0.21	130.58	-3,993.34	4,662.38	6,139.97	6,138.92	1.06	5,811.853		
400.00	400.00	188.17	188.15	1.21	0.54	130.59	-3,995.08	4,663.21	6,141.86	6,140.11	1.75	3,511.149		
500.00	500.00	254.94	254.88	1.57	0.78	130.60	-3,997.31	4,663.27	6,144.15	6,141.80	2.35	2,617.413		
600.00	600.00	324.00	323.84	1.93	1.04	130.63	-4,000.79	4,662.87	6,147.00	6,144.04	2.96	2,079.502		
700.00	700.00	359.77	359.54	2.29	1.17	130.65	-4,003.13	4,662.57	6,150.64	6,147.20	3.45	1,785.180		
800.00	800.00	433.78	433.31	2.64	1.45	130.70	-4,009.01	4,661.66	6,154.93	6,150.85	4.08	1,509.181		
900.00	900.00	489.04	488.32	3.00	1.66	130.74	-4,014.13	4,660.80	6,159.85	6,155.20	4.64	1,326.235		
1,000.00	1,000.00	523.49	522.61	3.36	1.79	130.76	-4,017.52	4,660.51	6,165.67	6,160.54	5.13	1,201.463		
1,100.00	1,100.00	556.35	555.27	3.72	1.92	130.79	-4,021.08	4,660.44	6,172.61	6,166.99	5.61	1,099.664		
1,200.00	1,199.98	585.20	583.92	4.06	2.04	-2.37	-4,024.46	4,660.56	6,178.89	6,172.83	6.06	1,019.173		
1,300.00	1,299.84	615.50	613.97	4.40	2.16	-2.34	-4,028.34	4,660.88	6,182.86	6,176.35	6.51	950.384		
1,400.00	1,399.45	659.00	657.06	4.74	2.34	-2.31	-4,034.27	4,661.65	6,184.39	6,177.38	7.01	882.740		
1,500.00	1,498.70	707.34	704.88	5.09	2.55	-2.27	-4,041.26	4,662.59	6,183.23	6,175.70	7.53	820.997		
1,600.00	1,597.47	737.79	734.95	5.46	2.68	-2.24	-4,046.00	4,663.28	6,179.59	6,171.60	7.99	773.492		
1,700.00	1,695.62	774.25	770.90	5.85	2.84	-2.21	-4,051.99	4,664.42	6,173.59	6,165.11	8.48	728.132		
1,800.00	1,793.06	813.00	809.02	6.27	3.01	-2.18	-4,058.83	4,665.64	6,165.05	6,156.07	8.98	686.616		
1,867.07	1,857.94	859.67	854.83	6.57	3.22	-2.14	-4,067.58	4,667.04	6,157.80	6,148.40	9.41	654.422		
1,900.00	1,889.69	877.00	871.83	6.72	3.30	-2.12	-4,070.95	4,667.53	6,153.97	6,144.37	9.60	641.229		
2,000.00	1,986.13	931.57	925.30	7.19	3.56	-2.06	-4,081.69	4,669.30	6,142.82	6,132.64	10.18	603.366		
2,100.00	2,082.57	1,010.74	1,002.80	7.68	3.94	-1.97	-4,097.55	4,672.42	6,132.39	6,121.51	10.87	563.934		
2,200.00	2,179.00	1,151.55	1,140.50	8.18	4.63	-1.80	-4,126.72	4,676.24	6,121.55	6,109.70	11.85	516.485		
2,300.00	2,275.44	1,221.69	1,209.01	8.69	4.98	-1.71	-4,141.73	4,677.64	6,110.70	6,098.17	12.53	487.739		
2,400.00	2,371.88	1,397.63	1,380.75	9.21	5.86	-1.47	-4,179.82	4,679.91	6,099.57	6,085.88	13.69	445.476		
2,500.00	2,468.31	1,534.04	1,514.06	9.74	6.55	-1.27	-4,208.78	4,680.43	6,087.51	6,072.83	14.68	414.652		
2,600.00	2,564.75	1,598.00	1,576.53	10.28	6.87	-1.18	-4,222.50	4,680.50	6,075.43	6,060.09	15.34	395.954		
2,700.00	2,661.19	1,629.00	1,606.72	10.82	7.03	-1.13	-4,229.52	4,680.67	6,064.29	6,048.43	15.86	382.392		
2,800.00	2,757.62	1,629.00	1,606.72	11.37	7.03	-1.13	-4,229.52	4,680.67	6,054.43	6,038.20	16.23	373.051		
2,900.00	2,854.06	1,661.00	1,637.76	11.92	7.20	-1.09	-4,237.29	4,681.29	6,045.88	6,029.12	16.75	360.917		
3,000.00	2,950.50	1,765.48	1,738.99	12.47	7.77	-0.93	-4,262.98	4,683.94	6,037.87	6,020.25	17.62	342.715		
3,100.00	3,046.93	1,918.68	1,888.07	13.03	8.58	-0.73	-4,297.74	4,690.10	6,029.74	6,011.05	18.70	322.511		
3,200.00	3,143.37	2,004.63	1,971.66	13.59	9.02	-0.61	-4,317.53	4,692.80	6,021.14	6,001.68	19.46	309.356		
3,300.00	3,239.81	2,142.70	2,106.45	14.15	9.73	-0.44	-4,346.84	4,698.64	6,012.06	5,991.61	20.46	293.869		
3,400.00	3,336.24	2,339.51	2,298.94	14.72	10.73	-0.21	-4,387.26	4,705.53	6,002.06	5,980.35	21.70	276.539		
3,500.00	3,432.68	2,486.00	2,442.54	15.28	11.45	-0.03	-4,415.84	4,709.83	5,990.99	5,968.27	22.72	263.669		
3,600.00	3,529.12	2,551.81	2,507.07	15.85	11.78	0.05	-4,428.66	4,711.35	5,979.53	5,956.13	23.39	255.603		
3,700.00	3,625.55	2,612.11	2,566.05	16.42	12.08	0.12	-4,441.12	4,712.83	5,968.91	5,944.87	24.04	248.255		
3,800.00	3,721.99	2,686.35	2,638.64	16.99	12.46	0.22	-4,456.53	4,715.04	5,958.77	5,934.02	24.76	240.707		
3,900.00	3,818.43	2,751.91	2,702.76	17.56	12.79	0.30	-4,469.97	4,717.59	5,949.15	5,923.73	25.43	233.986		
4,000.00	3,914.86	2,905.35	2,853.02	18.14	13.55	0.47	-4,500.39	4,723.86	5,939.13	5,912.66	26.47	224.364		
4,100.00	4,011.30	2,989.70	2,935.62	18.71	13.97	0.57	-4,517.13	4,727.34	5,929.22	5,902.00	27.22	217.831		
4,200.00	4,107.74	3,163.72	3,106.09	19.29	14.84	0.78	-4,551.74	4,732.28	5,918.37	5,890.01	28.36	208.711		
4,300.00	4,204.17	3,222.52	3,163.56	19.86	15.14	0.86	-4,564.14	4,733.20	5,907.58	5,878.57	29.01	203.644		
4,400.00	4,300.61	3,330.47	3,269.03	20.44	15.69	1.02	-4,587.02	4,735.23	5,897.17	5,867.30	29.88	197.391		
4,500.00	4,397.05	3,484.37	3,419.77	21.02	16.46	1.22	-4,617.96	4,737.61	5,885.59	5,854.65	30.94	190.256		
4,600.00	4,493.48	3,555.42	3,489.32	21.59	16.82	1.32	-4,632.46	4,738.67	5,874.39	5,842.75	31.64	185.678		
4,700.00	4,589.92	3,628.00	3,560.35	22.17	17.18	1.42	-4,647.30	4,739.83	5,863.41	5,831.07	32.35	181.267		
4,800.00	4,686.36	3,697.77	3,628.63	22.75	17.53	1.52	-4,661.55	4,741.43	5,852.94	5,819.90	33.04	177.142		
4,900.00	4,782.79	4,054.79	3,979.67	23.33	19.23	1.93	-4,725.70	4,750.01	5,840.74	5,805.85	34.89	167.400		
5,000.00	4,879.23	4,105.00	4,029.17	23.91	19.46	1.99	-4,734.04	4,750.69	5,826.82	5,791.33	35.50	164.144		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,141.16	4,064.79	24.49	19.63	2.03	-4,740.26	4,751.44	5,813.85	5,777.80	36.05	161.273		
5,200.00	5,072.10	4,200.00	4,122.64	25.07	19.91	2.10	-4,750.81	4,753.26	5,801.99	5,765.30	36.69	158.136		
5,300.00	5,168.54	4,386.71	4,306.50	25.66	20.79	2.31	-4,782.88	4,758.10	5,789.40	5,751.56	37.84	153.014		
5,400.00	5,264.98	4,443.17	4,362.06	26.24	21.05	2.38	-4,792.91	4,758.93	5,776.52	5,738.05	38.47	150.168		
5,500.00	5,361.41	4,506.09	4,424.07	26.82	21.34	2.44	-4,803.26	4,761.43	5,764.40	5,725.28	39.12	147.360		
5,600.00	5,457.85	4,575.59	4,492.61	27.40	21.66	2.50	-4,814.19	4,765.03	5,752.70	5,712.91	39.79	144.585		
5,700.00	5,554.29	4,831.78	4,745.31	27.99	22.83	2.76	-4,855.27	4,773.66	5,739.81	5,698.64	41.17	139.416		
5,800.00	5,650.72	4,898.00	4,810.69	28.57	23.12	2.82	-4,865.61	4,775.48	5,726.24	5,684.41	41.84	136.876		
5,900.00	5,747.16	4,957.69	4,869.53	29.15	23.40	2.89	-4,875.59	4,776.96	5,713.29	5,670.81	42.48	134.486		
6,000.00	5,843.60	5,150.30	5,059.27	29.74	24.29	3.14	-4,908.58	4,777.91	5,699.14	5,655.50	43.65	130.573		
6,100.00	5,940.03	5,320.97	5,227.84	30.32	25.05	3.35	-4,935.25	4,778.34	5,683.97	5,639.26	44.71	127.141		
6,200.00	6,036.47	5,387.41	5,293.59	30.90	25.34	3.42	-4,944.80	4,779.21	5,668.69	5,623.32	45.38	124.930		
6,300.00	6,132.91	5,446.16	5,351.67	31.49	25.60	3.49	-4,953.58	4,780.05	5,653.97	5,607.95	46.02	122.865		
6,400.00	6,229.34	5,501.00	5,405.80	32.07	25.85	3.55	-4,962.31	4,780.95	5,640.08	5,593.44	46.65	120.914		
6,500.00	6,325.78	5,596.00	5,499.65	32.66	26.28	3.65	-4,976.91	4,783.18	5,626.31	5,578.89	47.42	118.654		
6,552.14	6,376.06	5,636.91	5,540.09	32.96	26.46	3.69	-4,982.93	4,784.47	5,619.20	5,571.41	47.79	117.588		
6,600.00	6,422.32	5,657.93	5,560.85	33.24	26.55	3.71	-4,986.15	4,785.20	5,613.36	5,565.29	48.06	116.788		
6,700.00	6,519.60	5,882.20	5,782.74	33.78	27.53	3.90	-5,017.77	4,792.55	5,602.47	5,553.19	49.27	113.704		
6,800.00	6,617.63	6,474.44	6,372.48	34.27	29.73	4.28	-5,069.10	4,797.90	5,588.26	5,536.84	51.42	108.680		
6,900.00	6,716.28	6,667.89	6,565.82	34.72	30.33	4.34	-5,075.35	4,796.27	5,573.58	5,521.25	52.33	106.515		
7,000.00	6,815.45	6,800.41	6,698.31	35.13	30.73	4.36	-5,077.86	4,795.32	5,561.67	5,508.59	53.08	104.784		
7,100.00	6,915.00	6,926.98	6,824.86	35.49	31.10	4.38	-5,079.37	4,794.24	5,552.61	5,498.81	53.80	103.207		
7,200.00	7,014.82	7,036.02	6,933.89	35.81	31.41	4.39	-5,080.49	4,793.04	5,546.74	5,492.26	54.48	101.816		
7,300.00	7,114.79	7,146.07	7,043.93	36.09	31.72	4.40	-5,081.36	4,791.86	5,544.19	5,489.04	55.14	100.540		
7,319.21	7,134.00	7,164.09	7,061.95	36.14	31.77	137.59	-5,081.47	4,791.67	5,544.08	5,488.81	55.26	100.321		
7,400.00	7,214.79	7,235.75	7,133.61	36.33	31.97	137.60	-5,081.90	4,791.06	5,543.97	5,488.22	55.75	99.445		
7,419.21	7,234.00	7,253.26	7,151.12	36.37	32.02	137.60	-5,082.00	4,790.95	5,543.96	5,488.10	55.87	99.237		
7,450.00	7,264.77	7,282.46	7,180.31	36.46	32.11	-42.10	-5,082.15	4,790.77	5,543.35	5,487.29	56.06	98.884		
7,500.00	7,314.52	7,329.66	7,227.51	36.62	32.24	-42.37	-5,082.37	4,790.56	5,539.76	5,483.37	56.38	98.253		
7,550.00	7,363.66	7,394.30	7,292.15	36.81	32.43	-42.92	-5,082.57	4,790.28	5,532.93	5,476.19	56.74	97.510		
7,600.00	7,411.80	7,451.53	7,349.38	37.03	32.58	-43.74	-5,082.62	4,789.92	5,522.80	5,465.71	57.09	96.735		
7,650.00	7,458.60	7,489.71	7,387.56	37.29	32.69	-44.79	-5,082.64	4,789.73	5,509.66	5,452.25	57.41	95.971		
7,700.00	7,503.68	7,526.51	7,424.36	37.57	32.79	-46.11	-5,082.66	4,789.62	5,493.67	5,435.94	57.73	95.167		
7,750.00	7,546.72	7,559.30	7,457.15	37.89	32.88	-47.72	-5,082.69	4,789.59	5,474.95	5,416.92	58.04	94.335		
7,800.00	7,587.37	7,589.98	7,487.83	38.23	32.97	-49.64	-5,082.74	4,789.63	5,453.69	5,395.35	58.34	93.476		
7,850.00	7,625.34	7,618.68	7,516.52	38.59	33.05	-51.89	-5,082.80	4,789.72	5,430.06	5,371.42	58.64	92.592		
7,900.00	7,660.33	7,650.99	7,548.84	38.99	33.15	-54.54	-5,082.88	4,789.87	5,404.24	5,345.29	58.95	91.677		
7,950.00	7,692.07	7,682.67	7,580.52	39.40	33.24	-57.58	-5,082.91	4,790.07	5,376.41	5,317.16	59.25	90.743		
8,000.00	7,720.33	7,710.78	7,608.63	39.85	33.31	-61.00	-5,082.91	4,790.28	5,346.81	5,287.27	59.54	89.800		
8,050.00	7,744.88	7,732.83	7,630.68	40.31	33.38	-64.77	-5,082.88	4,790.47	5,315.71	5,255.88	59.82	88.860		
8,100.00	7,765.55	7,749.71	7,647.55	40.79	33.42	-68.87	-5,082.86	4,790.64	5,283.36	5,223.27	60.09	87.922		
8,150.00	7,782.18	7,763.26	7,661.10	41.30	33.46	-73.27	-5,082.84	4,790.79	5,250.05	5,189.69	60.36	86.985		
8,200.00	7,794.63	7,773.38	7,671.22	41.81	33.49	-77.91	-5,082.82	4,790.91	5,216.04	5,155.42	60.62	86.051		
8,250.00	7,802.82	7,780.00	7,677.84	42.34	33.51	-82.69	-5,082.81	4,791.00	5,181.59	5,120.72	60.87	85.124		
8,300.00	7,806.68	7,783.08	7,680.92	42.88	33.52	-87.51	-5,082.80	4,791.03	5,147.00	5,085.88	61.12	84.209		
8,319.29	7,807.00	7,783.31	7,681.15	43.09	33.52	-89.36	-5,082.80	4,791.04	5,133.67	5,072.45	61.22	83.860		
8,400.00	7,807.00	7,783.18	7,681.02	43.98	33.52	-89.35	-5,082.80	4,791.04	5,078.28	5,016.63	61.65	82.373		
8,500.00	7,807.00	7,783.02	7,680.87	45.12	33.52	-89.35	-5,082.80	4,791.03	5,010.62	4,948.33	62.28	80.450		
8,600.00	7,806.99	7,782.87	7,680.71	46.31	33.52	-89.35	-5,082.80	4,791.03	4,944.05	4,881.03	63.02	78.449		
8,700.00	7,806.99	7,782.71	7,680.55	47.53	33.51	-89.35	-5,082.80	4,791.03	4,878.62	4,814.75	63.87	76.382		
8,800.00	7,806.99	7,782.55	7,680.40	48.78	33.51	-89.34	-5,082.80	4,791.03	4,814.38	4,749.55	64.83	74.262		
8,900.00	7,806.99	7,782.40	7,680.24	50.07	33.51	-89.34	-5,082.80	4,791.03	4,751.37	4,685.48	65.90	72.103		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
9,000.00	7,806.98	7,782.24	7,680.08	51.38	33.51	-89.34	-5,082.80	4,791.02	4,689.66	4,622.58	67.07	69.920		
9,100.00	7,806.98	7,782.08	7,679.93	52.72	33.51	-89.34	-5,082.80	4,791.02	4,629.28	4,560.92	68.35	67.726		
9,200.00	7,806.98	7,781.93	7,679.77	54.09	33.51	-89.33	-5,082.80	4,791.02	4,570.29	4,500.55	69.74	65.535		
9,300.00	7,806.98	7,781.77	7,679.62	55.48	33.51	-89.33	-5,082.80	4,791.02	4,512.74	4,441.52	71.22	63.360		
9,400.00	7,806.97	7,781.62	7,679.46	56.89	33.51	-89.33	-5,082.80	4,791.02	4,456.70	4,383.89	72.81	61.213		
9,500.00	7,806.97	7,781.46	7,679.31	58.32	33.51	-89.33	-5,082.80	4,791.01	4,402.21	4,327.73	74.48	59.105		
9,600.00	7,806.97	7,781.31	7,679.15	59.77	33.51	-89.32	-5,082.80	4,791.01	4,349.34	4,273.10	76.25	57.043		
9,700.00	7,806.97	7,781.16	7,679.00	61.23	33.51	-89.32	-5,082.80	4,791.01	4,298.15	4,220.06	78.10	55.036		
9,800.00	7,806.96	7,781.00	7,678.84	62.71	33.51	-89.32	-5,082.80	4,791.01	4,248.70	4,168.67	80.03	53.091		
9,900.00	7,806.96	7,780.85	7,678.69	64.21	33.51	-89.32	-5,082.81	4,791.01	4,201.04	4,119.01	82.03	51.213		
10,000.00	7,806.96	7,780.70	7,678.54	65.72	33.51	-89.32	-5,082.81	4,791.00	4,155.25	4,071.14	84.11	49.405		
10,100.00	7,806.96	7,780.54	7,678.39	67.24	33.51	-89.31	-5,082.81	4,791.00	4,111.37	4,025.13	86.25	47.670		
10,200.00	7,806.95	7,780.39	7,678.23	68.78	33.51	-89.31	-5,082.81	4,791.00	4,069.48	3,981.04	88.44	46.012		
10,300.00	7,806.95	7,780.24	7,678.08	70.32	33.51	-89.31	-5,082.81	4,791.00	4,029.64	3,938.95	90.69	44.431		
10,400.00	7,806.95	7,780.09	7,677.93	71.88	33.51	-89.31	-5,082.81	4,791.00	3,991.91	3,898.92	92.99	42.927		
10,500.00	7,806.95	7,779.94	7,677.78	73.45	33.51	-89.30	-5,082.81	4,790.99	3,956.34	3,861.01	95.33	41.502		
10,600.00	7,806.95	7,779.79	7,677.63	75.02	33.51	-89.30	-5,082.81	4,790.99	3,923.01	3,825.31	97.70	40.153		
10,700.00	7,806.94	7,779.63	7,677.48	76.61	33.51	-89.30	-5,082.81	4,790.99	3,891.95	3,791.85	100.10	38.881		
10,800.00	7,806.94	7,779.48	7,677.33	78.20	33.51	-89.30	-5,082.81	4,790.99	3,863.24	3,760.72	102.52	37.684		
10,900.00	7,806.94	7,779.33	7,677.18	79.80	33.51	-89.29	-5,082.81	4,790.99	3,836.92	3,731.97	104.94	36.561		
11,000.00	7,806.94	7,779.18	7,677.03	81.41	33.50	-89.29	-5,082.81	4,790.98	3,813.04	3,705.66	107.38	35.510		
11,100.00	7,806.93	7,779.03	7,676.88	83.02	33.50	-89.29	-5,082.81	4,790.98	3,791.64	3,681.83	109.81	34.529		
11,200.00	7,806.93	7,778.88	7,676.73	84.64	33.50	-89.29	-5,082.81	4,790.98	3,772.78	3,660.55	112.23	33.616		
11,300.00	7,806.93	7,778.74	7,676.58	86.27	33.50	-89.29	-5,082.81	4,790.98	3,756.49	3,641.85	114.63	32.769		
11,400.00	7,806.93	7,778.59	7,676.43	87.90	33.50	-89.28	-5,082.81	4,790.98	3,742.80	3,625.78	117.01	31.986		
11,500.00	7,806.92	7,778.44	7,676.28	89.54	33.50	-89.28	-5,082.81	4,790.98	3,731.73	3,612.38	119.36	31.265		
11,600.00	7,806.92	7,778.29	7,676.13	91.18	33.50	-89.28	-5,082.81	4,790.97	3,723.33	3,601.66	121.66	30.603		
11,700.00	7,806.92	7,778.14	7,675.98	92.83	33.50	-89.28	-5,082.81	4,790.97	3,717.59	3,593.67	123.92	29.999		
11,800.00	7,806.92	7,778.00	7,675.84	94.48	33.50	-89.27	-5,082.81	4,790.97	3,714.54	3,588.41	126.13	29.450		
11,863.41	7,806.91	7,777.90	7,675.74	95.53	33.50	-89.27	-5,082.81	4,790.97	3,714.00	3,586.50	127.50	29.130 CC		
11,900.00	7,806.91	7,777.85	7,675.69	96.14	33.50	-89.27	-5,082.81	4,790.97	3,714.18	3,585.90	128.28	28.954 ES		
12,000.00	7,806.91	7,777.70	7,675.54	97.80	33.50	-89.27	-5,082.81	4,790.97	3,716.51	3,586.15	130.36	28.509		
12,100.00	7,806.91	7,777.55	7,675.40	99.46	33.50	-89.27	-5,082.81	4,790.96	3,721.52	3,589.15	132.37	28.114		
12,200.00	7,806.91	7,777.41	7,675.25	101.13	33.50	-89.26	-5,082.81	4,790.96	3,729.22	3,594.90	134.31	27.765		
12,300.00	7,806.90	7,777.26	7,675.10	102.80	33.50	-89.26	-5,082.81	4,790.96	3,739.57	3,603.39	136.18	27.461		
12,400.00	7,806.90	7,777.12	7,674.96	104.47	33.50	-89.26	-5,082.81	4,790.96	3,752.56	3,614.60	137.96	27.201		
12,500.00	7,806.90	7,776.97	7,674.81	106.15	33.50	-89.26	-5,082.81	4,790.96	3,768.16	3,628.50	139.66	26.982		
12,600.00	7,806.90	7,776.83	7,674.67	107.83	33.50	-89.26	-5,082.81	4,790.95	3,786.33	3,645.07	141.27	26.802		
12,700.00	7,806.89	7,776.68	7,674.52	109.52	33.50	-89.25	-5,082.81	4,790.95	3,807.05	3,664.26	142.79	26.661		
12,800.00	7,806.89	7,776.54	7,674.38	111.20	33.50	-89.25	-5,082.81	4,790.95	3,830.27	3,686.04	144.23	26.556		
12,900.00	7,806.89	7,776.39	7,674.23	112.89	33.50	-89.25	-5,082.81	4,790.95	3,855.94	3,710.36	145.58	26.486		
13,000.00	7,806.89	7,776.25	7,674.09	114.59	33.50	-89.25	-5,082.81	4,790.95	3,884.02	3,737.17	146.85	26.449		
13,100.00	7,806.88	7,776.10	7,673.95	116.28	33.50	-89.24	-5,082.81	4,790.95	3,914.45	3,766.42	148.02	26.445 SF		
13,200.00	7,806.88	7,775.96	7,673.80	117.98	33.50	-89.24	-5,082.81	4,790.94	3,947.18	3,798.06	149.12	26.470		
13,300.00	7,806.88	7,775.82	7,673.66	119.68	33.50	-89.24	-5,082.81	4,790.94	3,982.15	3,832.03	150.13	26.525		
13,400.00	7,806.88	7,775.67	7,673.52	121.38	33.50	-89.24	-5,082.82	4,790.94	4,019.31	3,868.25	151.06	26.608		
13,500.00	7,806.88	7,775.53	7,673.37	123.08	33.49	-89.24	-5,082.82	4,790.94	4,058.59	3,906.68	151.91	26.717		
13,600.00	7,806.87	7,775.39	7,673.23	124.79	33.49	-89.23	-5,082.82	4,790.94	4,099.94	3,947.25	152.68	26.853		
13,700.00	7,806.87	7,775.25	7,673.09	126.49	33.49	-89.23	-5,082.82	4,790.93	4,143.28	3,989.90	153.39	27.012		
13,800.00	7,806.87	7,775.11	7,672.95	128.20	33.49	-89.23	-5,082.82	4,790.93	4,188.57	4,034.55	154.02	27.195		
13,900.00	7,806.87	7,774.96	7,672.81	129.91	33.49	-89.23	-5,082.82	4,790.93	4,235.73	4,081.15	154.58	27.401		
14,000.00	7,806.86	7,774.82	7,672.67	131.62	33.49	-89.22	-5,082.82	4,790.93	4,284.71	4,129.62	155.09	27.628		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - BICKLER 4-6-34 - Wellbore #1 - Wellbore #1													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,806.86	7,774.68	7,672.52	133.34	33.49	-89.22	-5,082.82	4,790.93	4,335.44	4,179.91	155.53	27.875		
14,200.00	7,806.86	7,774.54	7,672.38	135.05	33.49	-89.22	-5,082.82	4,790.93	4,387.87	4,231.95	155.92	28.142		
14,300.00	7,806.86	7,774.40	7,672.24	136.77	33.49	-89.22	-5,082.82	4,790.92	4,441.93	4,285.67	156.25	28.428		
14,400.00	7,806.85	7,774.26	7,672.10	138.49	33.49	-89.22	-5,082.82	4,790.92	4,497.56	4,341.02	156.53	28.732		
14,500.00	7,806.85	7,774.12	7,671.96	140.21	33.49	-89.21	-5,082.82	4,790.92	4,554.70	4,397.93	156.77	29.053		
14,600.00	7,806.85	7,773.98	7,671.82	141.93	33.49	-89.21	-5,082.82	4,790.92	4,613.31	4,456.35	156.96	29.391		
14,700.00	7,806.85	7,773.84	7,671.68	143.65	33.49	-89.21	-5,082.82	4,790.92	4,673.33	4,516.21	157.11	29.745		
14,800.00	7,806.84	7,773.70	7,671.55	145.37	33.49	-89.21	-5,082.82	4,790.92	4,734.69	4,577.46	157.23	30.114		
14,900.00	7,806.84	7,773.56	7,671.41	147.10	33.49	-89.21	-5,082.82	4,790.91	4,797.35	4,640.05	157.31	30.497		
15,000.00	7,806.84	7,773.43	7,671.27	148.83	33.49	-89.20	-5,082.82	4,790.91	4,861.27	4,703.91	157.35	30.894		
15,100.00	7,806.84	7,773.29	7,671.13	150.55	33.49	-89.20	-5,082.82	4,790.91	4,926.38	4,769.01	157.37	31.305		
15,200.00	7,806.83	7,773.15	7,670.99	152.28	33.49	-89.20	-5,082.82	4,790.91	4,992.65	4,835.29	157.36	31.729		
15,300.00	7,806.83	7,773.01	7,670.85	154.01	33.49	-89.20	-5,082.82	4,790.91	5,060.03	4,902.71	157.32	32.164		
15,400.00	7,806.83	7,772.87	7,670.72	155.74	33.49	-89.19	-5,082.82	4,790.91	5,128.47	4,971.21	157.26	32.612		
15,500.00	7,806.83	7,772.74	7,670.58	157.47	33.49	-89.19	-5,082.82	4,790.90	5,197.93	5,040.76	157.17	33.071		
15,600.00	7,806.82	7,772.60	7,670.44	159.20	33.49	-89.19	-5,082.82	4,790.90	5,268.38	5,111.31	157.07	33.541		
15,700.00	7,806.82	7,772.46	7,670.31	160.93	33.49	-89.19	-5,082.82	4,790.90	5,339.77	5,182.82	156.95	34.022		
15,800.00	7,806.82	7,772.33	7,670.17	162.67	33.49	-89.19	-5,082.82	4,790.90	5,412.06	5,255.25	156.82	34.512		
15,900.00	7,806.82	7,772.19	7,670.03	164.40	33.49	-89.18	-5,082.82	4,790.90	5,485.23	5,328.56	156.67	35.012		
16,000.00	7,806.81	7,772.05	7,669.90	166.14	33.49	-89.18	-5,082.82	4,790.90	5,559.23	5,402.73	156.50	35.521		
16,100.00	7,806.81	7,771.92	7,669.76	167.87	33.48	-89.18	-5,082.82	4,790.89	5,634.04	5,477.71	156.33	36.040		
16,200.00	7,806.81	7,771.78	7,669.63	169.61	33.48	-89.18	-5,082.82	4,790.89	5,709.61	5,553.47	156.14	36.567		
16,300.00	7,806.81	7,771.65	7,669.49	171.35	33.48	-89.18	-5,082.82	4,790.89	5,785.93	5,629.98	155.95	37.102		
16,400.00	7,806.81	7,771.51	7,669.36	173.09	33.48	-89.17	-5,082.82	4,790.89	5,862.96	5,707.22	155.75	37.645		
16,500.00	7,806.80	7,771.38	7,669.22	174.83	33.48	-89.17	-5,082.82	4,790.89	5,940.68	5,785.14	155.53	38.195		
16,600.00	7,806.80	7,771.25	7,669.09	176.57	33.48	-89.17	-5,082.82	4,790.89	6,019.05	5,863.73	155.32	38.753		
16,700.00	7,806.80	7,771.11	7,668.95	178.31	33.48	-89.17	-5,082.82	4,790.88	6,098.05	5,942.96	155.10	39.318		
16,800.00	7,806.80	7,770.98	7,668.82	180.05	33.48	-89.17	-5,082.82	4,790.88	6,177.67	6,022.80	154.87	39.890		
16,900.00	7,806.79	7,770.84	7,668.69	181.79	33.48	-89.16	-5,082.82	4,790.88	6,257.87	6,103.23	154.64	40.468		
17,000.00	7,806.79	7,770.71	7,668.55	183.53	33.48	-89.16	-5,082.82	4,790.88	6,338.63	6,184.23	154.40	41.053		
17,100.00	7,806.79	7,770.58	7,668.42	185.27	33.48	-89.16	-5,082.82	4,790.88	6,419.93	6,265.77	154.16	41.643		
17,200.00	7,806.79	7,770.44	7,668.29	187.02	33.48	-89.16	-5,082.82	4,790.88	6,501.76	6,347.83	153.92	42.240		
17,300.00	7,806.78	7,770.31	7,668.16	188.76	33.48	-89.16	-5,082.83	4,790.87	6,584.08	6,430.40	153.68	42.842		
17,400.00	7,806.78	7,770.18	7,668.02	190.51	33.48	-89.15	-5,082.83	4,790.87	6,666.89	6,513.45	153.44	43.450		
17,500.00	7,806.78	7,770.05	7,667.89	192.25	33.48	-89.15	-5,082.83	4,790.87	6,750.17	6,596.97	153.20	44.062		
17,600.00	7,806.78	7,769.92	7,667.76	194.00	33.48	-89.15	-5,082.83	4,790.87	6,833.89	6,680.94	152.95	44.680		
17,700.00	7,806.77	7,769.78	7,667.63	195.74	33.48	-89.15	-5,082.83	4,790.87	6,918.05	6,765.34	152.71	45.303		
17,800.00	7,806.77	7,769.65	7,667.50	197.49	33.48	-89.15	-5,082.83	4,790.87	7,002.62	6,850.16	152.46	45.930		
17,900.00	7,806.77	7,769.52	7,667.37	199.24	33.48	-89.14	-5,082.83	4,790.86	7,087.60	6,935.38	152.22	46.562		
17,973.82	7,807.00	7,769.60	7,667.44	200.53	33.48	-89.14	-5,082.83	4,790.87	7,150.65	6,998.61	152.04	47.030		
17,974.53	7,807.00	7,769.60	7,667.44	200.55	33.48	-89.14	-5,082.83	4,790.87	7,151.26	6,998.24	153.03	46.732		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	3.00	3.00	0.00	0.04	136.55	-3,226.81	3,056.83	4,444.83					
100.00	100.00	103.00	103.00	0.13	1.25	136.55	-3,226.81	3,056.83	4,444.83	4,443.44	1.39	3,202.066		
200.00	200.00	203.00	203.00	0.49	3.54	136.55	-3,226.81	3,056.83	4,444.83	4,440.80	4.03	1,102.179		
300.00	300.00	303.00	303.00	0.85	5.62	136.55	-3,226.81	3,056.83	4,444.83	4,438.36	6.47	687.128		
400.00	400.00	403.00	403.00	1.21	7.66	136.55	-3,226.81	3,056.83	4,444.83	4,435.96	8.87	501.163		
500.00	500.00	503.00	503.00	1.57	9.69	136.55	-3,226.81	3,056.83	4,444.83	4,433.58	11.26	394.872		
600.00	600.00	603.00	603.00	1.93	11.71	136.55	-3,226.81	3,056.83	4,444.83	4,431.19	13.64	325.926		
700.00	700.00	703.00	703.00	2.29	13.73	136.55	-3,226.81	3,056.83	4,444.83	4,428.82	16.02	277.538		
800.00	800.00	803.00	803.00	2.64	15.75	136.55	-3,226.81	3,056.83	4,444.83	4,426.44	18.39	241.688		
900.00	900.00	903.00	903.00	3.00	17.76	136.55	-3,226.81	3,056.83	4,444.83	4,424.07	20.76	214.054		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	136.55	-3,226.81	3,056.83	4,444.83	4,421.69	23.14	192.099		
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	136.55	-3,226.81	3,056.83	4,444.83	4,419.32	25.51	174.234		
1,200.00	1,199.98	1,202.98	1,202.98	4.06	23.80	3.37	-3,226.81	3,056.83	4,443.09	4,415.22	27.87	159.436		
1,300.00	1,299.84	1,302.84	1,302.84	4.40	25.81	3.38	-3,226.81	3,056.83	4,437.87	4,407.65	30.21	146.894		
1,400.00	1,399.45	1,402.45	1,402.45	4.74	27.82	3.39	-3,226.81	3,056.83	4,429.17	4,396.61	32.55	136.055		
1,500.00	1,498.70	1,501.70	1,501.70	5.09	29.82	3.42	-3,226.81	3,056.83	4,417.00	4,382.11	34.89	126.587		
1,600.00	1,597.47	1,600.47	1,600.47	5.46	31.80	3.45	-3,226.81	3,056.83	4,401.38	4,364.16	37.22	118.239		
1,700.00	1,695.62	1,701.38	1,698.62	5.85	33.84	3.49	-3,226.81	3,056.83	4,382.34	4,342.74	39.60	110.660		
1,800.00	1,793.06	1,803.94	1,796.06	6.27	35.90	3.53	-3,226.81	3,056.83	4,359.88	4,317.87	42.01	103.771		
1,867.07	1,857.94	1,860.94	1,860.94	6.57	37.05	3.57	-3,226.81	3,056.83	4,342.93	4,299.53	43.40	100.072		
1,900.00	1,889.69	1,907.31	1,892.69	6.72	37.98	3.58	-3,226.81	3,056.83	4,334.23	4,289.79	44.45	97.514		
2,000.00	1,986.13	1,989.13	1,989.13	7.19	39.62	3.60	-3,226.81	3,056.83	4,307.82	4,261.38	46.44	92.756		
2,100.00	2,082.57	2,085.57	2,085.57	7.68	41.56	3.62	-3,226.81	3,056.83	4,281.42	4,232.68	48.74	87.849		
2,200.00	2,179.00	2,182.00	2,182.00	8.18	43.50	3.64	-3,226.81	3,056.83	4,255.01	4,203.97	51.03	83.377		
2,300.00	2,275.44	2,278.44	2,278.44	8.69	45.44	3.67	-3,226.81	3,056.83	4,228.60	4,175.27	53.33	79.286		
2,400.00	2,371.88	2,374.88	2,374.88	9.21	47.38	3.69	-3,226.81	3,056.83	4,202.19	4,146.56	55.64	75.529		
2,500.00	2,468.31	2,471.31	2,471.31	9.74	49.32	3.71	-3,226.81	3,056.83	4,175.79	4,117.85	57.94	72.067		
2,600.00	2,564.75	2,567.75	2,567.75	10.28	51.26	3.74	-3,226.81	3,056.83	4,149.38	4,089.13	60.25	68.868		
2,700.00	2,661.19	2,664.19	2,664.19	10.82	53.20	3.76	-3,226.81	3,056.83	4,122.98	4,060.42	62.56	65.903		
2,800.00	2,757.62	2,760.62	2,760.62	11.37	55.14	3.78	-3,226.81	3,056.83	4,096.58	4,031.70	64.87	63.148		
2,900.00	2,854.06	2,857.06	2,857.06	11.92	57.08	3.81	-3,226.81	3,056.83	4,070.17	4,002.99	67.19	60.580		
3,000.00	2,950.50	2,953.50	2,953.50	12.47	59.02	3.83	-3,226.81	3,056.83	4,043.77	3,974.27	69.50	58.183		
3,100.00	3,046.93	3,049.93	3,049.93	13.03	60.96	3.86	-3,226.81	3,056.83	4,017.37	3,945.55	71.82	55.939		
3,200.00	3,143.37	3,146.37	3,146.37	13.59	62.90	3.88	-3,226.81	3,056.83	3,990.97	3,916.83	74.13	53.835		
3,300.00	3,239.81	3,242.81	3,242.81	14.15	64.84	3.91	-3,226.81	3,056.83	3,964.57	3,888.12	76.45	51.857		
3,400.00	3,336.24	3,339.24	3,339.24	14.72	66.78	3.94	-3,226.81	3,056.83	3,938.17	3,859.40	78.77	49.995		
3,500.00	3,432.68	3,435.68	3,435.68	15.28	68.72	3.96	-3,226.81	3,056.83	3,911.77	3,830.68	81.09	48.239		
3,600.00	3,529.12	3,532.12	3,532.12	15.85	70.66	3.99	-3,226.81	3,056.83	3,885.37	3,801.96	83.41	46.581		
3,700.00	3,625.55	3,628.55	3,628.55	16.42	72.60	4.02	-3,226.81	3,056.83	3,858.98	3,773.24	85.73	45.011		
3,800.00	3,721.99	3,724.99	3,724.99	16.99	74.54	4.05	-3,226.81	3,056.83	3,832.58	3,744.52	88.06	43.525		
3,900.00	3,818.43	3,821.43	3,821.43	17.56	76.48	4.07	-3,226.81	3,056.83	3,806.18	3,715.81	90.38	42.114		
4,000.00	3,914.86	3,917.86	3,917.86	18.14	78.42	4.10	-3,226.81	3,056.83	3,779.79	3,687.09	92.70	40.774		
4,100.00	4,011.30	4,014.30	4,014.30	18.71	80.36	4.13	-3,226.81	3,056.83	3,753.40	3,658.37	95.03	39.499		
4,200.00	4,107.74	4,110.74	4,110.74	19.29	82.30	4.16	-3,226.81	3,056.83	3,727.00	3,629.65	97.35	38.285		
4,300.00	4,204.17	4,207.17	4,207.17	19.86	84.24	4.19	-3,226.81	3,056.83	3,700.61	3,600.94	99.67	37.127		
4,400.00	4,300.61	4,303.61	4,303.61	20.44	86.18	4.22	-3,226.81	3,056.83	3,674.22	3,572.22	102.00	36.022		
4,500.00	4,397.05	4,400.05	4,400.05	21.02	88.12	4.25	-3,226.81	3,056.83	3,647.83	3,543.51	104.33	34.966		
4,600.00	4,493.48	4,503.52	4,496.48	21.59	90.20	4.28	-3,226.81	3,056.83	3,621.44	3,514.65	106.79	33.911		
4,700.00	4,589.92	4,607.08	4,592.92	22.17	92.28	4.31	-3,226.81	3,056.83	3,595.05	3,485.79	109.26	32.903		
4,800.00	4,686.36	4,689.36	4,689.36	22.75	93.93	4.34	-3,226.81	3,056.83	3,568.67	3,457.36	111.31	32.062		
4,900.00	4,782.79	4,785.79	4,785.79	23.33	95.87	4.38	-3,226.81	3,056.83	3,542.28	3,428.65	113.63	31.173		
5,000.00	4,879.23	4,882.23	4,882.23	23.91	97.81	4.41	-3,226.81	3,056.83	3,515.90	3,399.94	115.96	30.320		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,978.67	4,978.67	24.49	99.75	4.44	-3,226.81	3,056.83	3,489.51	3,371.22	118.29	29.500		
5,200.00	5,072.10	5,075.10	5,075.10	25.07	101.69	4.48	-3,226.81	3,056.83	3,463.13	3,342.51	120.62	28.712		
5,300.00	5,168.54	5,171.54	5,171.54	25.66	103.63	4.51	-3,226.81	3,056.83	3,436.75	3,313.80	122.95	27.953		
5,400.00	5,264.98	5,267.98	5,267.98	26.24	105.57	4.55	-3,226.81	3,056.83	3,410.37	3,285.10	125.27	27.223		
5,500.00	5,361.41	5,364.41	5,364.41	26.82	107.51	4.58	-3,226.81	3,056.83	3,383.99	3,256.39	127.60	26.519		
5,600.00	5,457.85	5,460.85	5,460.85	27.40	109.45	4.62	-3,226.81	3,056.83	3,357.61	3,227.68	129.93	25.841		
5,700.00	5,554.29	5,557.29	5,557.29	27.99	111.39	4.66	-3,226.81	3,056.83	3,331.24	3,198.97	132.26	25.186		
5,800.00	5,650.72	5,653.72	5,653.72	28.57	113.33	4.69	-3,226.81	3,056.83	3,304.86	3,170.27	134.59	24.554		
5,900.00	5,747.16	5,750.16	5,750.16	29.15	115.27	4.73	-3,226.81	3,056.83	3,278.49	3,141.56	136.92	23.944		
6,000.00	5,843.60	5,846.60	5,846.60	29.74	117.21	4.77	-3,226.81	3,056.83	3,252.12	3,112.86	139.25	23.354		
6,100.00	5,940.03	5,943.03	5,943.03	30.32	119.15	4.81	-3,226.81	3,056.83	3,225.74	3,084.16	141.59	22.783		
6,200.00	6,036.47	6,039.47	6,039.47	30.90	121.09	4.85	-3,226.81	3,056.83	3,199.37	3,055.46	143.92	22.231		
6,300.00	6,132.91	6,135.91	6,135.91	31.49	123.03	4.89	-3,226.81	3,056.83	3,173.01	3,026.76	146.25	21.696		
6,400.00	6,229.34	6,232.34	6,232.34	32.07	124.96	4.93	-3,226.81	3,056.83	3,146.64	2,998.06	148.58	21.178		
6,500.00	6,325.78	6,328.78	6,328.78	32.66	126.90	4.97	-3,226.81	3,056.83	3,120.27	2,969.36	150.91	20.676		
6,552.14	6,376.06	6,379.06	6,379.06	32.96	127.92	4.99	-3,226.81	3,056.83	3,106.53	2,954.40	152.13	20.421		
6,600.00	6,422.32	6,425.32	6,425.32	33.24	128.85	4.99	-3,226.81	3,056.83	3,094.30	2,941.05	153.24	20.192		
6,700.00	6,519.60	6,522.60	6,522.60	33.78	130.80	4.99	-3,226.81	3,056.83	3,071.23	2,915.65	155.59	19.740		
6,800.00	6,617.63	6,620.63	6,620.63	34.27	132.77	4.98	-3,226.81	3,056.83	3,051.57	2,893.63	157.94	19.322		
6,900.00	6,716.28	6,719.28	6,719.28	34.72	134.76	4.98	-3,226.81	3,056.83	3,035.32	2,875.03	160.29	18.936		
7,000.00	6,815.45	6,818.45	6,818.45	35.13	136.75	4.98	-3,226.81	3,056.83	3,022.52	2,859.87	162.65	18.583		
7,100.00	6,915.00	6,918.00	6,918.00	35.49	138.75	4.98	-3,226.81	3,056.83	3,013.17	2,848.17	165.00	18.262		
7,200.00	7,014.82	7,017.82	7,017.82	35.81	140.76	4.98	-3,226.81	3,056.83	3,007.29	2,839.94	167.35	17.970		
7,300.00	7,114.79	7,117.79	7,117.79	36.09	142.77	4.98	-3,226.81	3,056.83	3,004.88	2,835.19	169.69	17.708		
7,319.21	7,134.00	7,137.00	7,137.00	36.14	143.16	138.16	-3,226.81	3,056.83	3,004.82	2,834.68	170.14	17.661		
7,400.00	7,214.79	7,217.79	7,217.79	36.33	144.78	138.16	-3,226.81	3,056.83	3,004.82	2,832.81	172.01	17.469		
7,419.21	7,234.00	7,237.00	7,237.00	36.37	145.17	138.16	-3,226.81	3,056.83	3,004.82	2,832.36	172.45	17.424		
7,450.00	7,264.77	7,267.77	7,267.77	36.46	145.79	-41.54	-3,226.81	3,056.83	3,004.20	2,831.03	173.17	17.348		
7,500.00	7,314.52	7,317.52	7,317.52	36.62	146.79	-41.85	-3,226.81	3,056.83	3,000.56	2,826.22	174.34	17.211		
7,550.00	7,363.66	7,366.66	7,366.66	36.81	147.78	-42.43	-3,226.81	3,056.83	2,993.70	2,818.21	175.49	17.059		
7,600.00	7,411.80	7,414.80	7,414.80	37.03	148.74	-43.30	-3,226.81	3,056.83	2,983.69	2,807.05	176.64	16.892		
7,650.00	7,458.60	7,461.60	7,461.60	37.29	149.68	-44.46	-3,226.81	3,056.83	2,970.63	2,792.88	177.75	16.712		
7,700.00	7,503.68	7,506.68	7,506.68	37.57	150.59	-45.94	-3,226.81	3,056.83	2,954.65	2,775.81	178.83	16.522		
7,750.00	7,546.72	7,549.72	7,549.72	37.89	151.46	-47.75	-3,226.81	3,056.83	2,935.91	2,756.03	179.88	16.322		
7,800.00	7,587.37	7,609.63	7,590.37	38.23	152.66	-49.91	-3,226.81	3,056.83	2,914.60	2,733.34	181.26	16.080		
7,850.00	7,625.34	7,628.34	7,628.34	38.59	153.04	-52.43	-3,226.81	3,056.83	2,890.94	2,709.12	181.82	15.900		
7,900.00	7,660.33	7,663.33	7,663.33	38.99	153.74	-55.33	-3,226.81	3,056.83	2,865.16	2,682.45	182.71	15.682		
7,950.00	7,692.07	7,704.93	7,695.07	39.40	154.58	-58.61	-3,226.81	3,056.83	2,837.52	2,653.78	183.73	15.444		
8,000.00	7,720.33	7,723.33	7,723.33	39.85	154.95	-62.25	-3,226.81	3,056.83	2,808.28	2,623.98	184.30	15.237		
8,050.00	7,744.88	7,747.88	7,747.88	40.31	155.44	-66.22	-3,226.81	3,056.83	2,777.75	2,592.74	185.01	15.014		
8,100.00	7,765.55	7,768.55	7,768.55	40.79	155.86	-70.46	-3,226.81	3,056.83	2,746.20	2,560.55	185.65	14.792		
8,150.00	7,782.18	7,785.18	7,785.18	41.30	156.19	-74.90	-3,226.81	3,056.83	2,713.95	2,527.72	186.23	14.573		
8,200.00	7,794.63	7,802.37	7,797.63	41.81	156.54	-79.44	-3,226.81	3,056.83	2,681.28	2,494.44	186.84	14.351		
8,250.00	7,802.82	7,805.82	7,805.82	42.34	156.61	-83.96	-3,226.81	3,056.83	2,648.50	2,461.31	187.19	14.149		
8,300.00	7,806.68	7,809.68	7,809.68	42.88	156.68	-88.36	-3,226.81	3,056.83	2,615.90	2,428.32	187.58	13.946		
8,319.29	7,807.00	7,810.00	7,810.00	43.09	156.69	-90.00	-3,226.81	3,056.83	2,603.43	2,415.71	187.71	13.869		
8,400.00	7,807.00	7,810.00	7,810.00	43.98	156.69	-90.00	-3,226.81	3,056.83	2,552.16	2,363.85	188.31	13.553		
8,500.00	7,807.00	7,810.00	7,810.00	45.12	156.69	-90.00	-3,226.81	3,056.83	2,490.81	2,301.59	189.22	13.164		
8,600.00	7,806.99	7,809.99	7,809.99	46.31	156.69	-90.00	-3,226.81	3,056.83	2,432.02	2,241.70	190.32	12.779		
8,700.00	7,806.99	7,809.99	7,809.99	47.53	156.69	-90.00	-3,226.81	3,056.83	2,375.98	2,184.37	191.61	12.400		
8,800.00	7,806.99	7,809.99	7,809.99	48.78	156.69	-90.00	-3,226.81	3,056.83	2,322.91	2,129.81	193.10	12.030		
8,900.00	7,806.99	7,809.99	7,809.99	50.07	156.69	-90.00	-3,226.81	3,056.83	2,272.99	2,078.22	194.77	11.670		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	51.38	156.69	-90.00	-3,226.81	3,056.83	2,226.45	2,029.83	196.62	11.324		
9,100.00	7,806.98	7,809.98	7,809.98	52.72	156.69	-90.00	-3,226.81	3,056.83	2,183.50	1,984.87	198.63	10.993		
9,200.00	7,806.98	7,809.98	7,809.98	54.09	156.69	-90.00	-3,226.81	3,056.83	2,144.35	1,943.57	200.79	10.680		
9,300.00	7,806.98	7,809.98	7,809.98	55.48	156.69	-90.00	-3,226.81	3,056.83	2,109.23	1,906.16	203.07	10.387		
9,400.00	7,806.97	7,809.97	7,809.97	56.89	156.69	-90.00	-3,226.81	3,056.83	2,078.33	1,872.88	205.44	10.116		
9,500.00	7,806.97	7,809.97	7,809.97	58.32	156.69	-90.00	-3,226.81	3,056.83	2,051.84	1,843.94	207.90	9.870		
9,600.00	7,806.97	7,809.97	7,809.97	59.77	156.69	-90.00	-3,226.81	3,056.83	2,029.93	1,819.54	210.39	9.648		
9,700.00	7,806.97	7,809.97	7,809.97	61.23	156.69	-90.00	-3,226.81	3,056.83	2,012.76	1,799.87	212.90	9.454		
9,800.00	7,806.96	7,809.96	7,809.96	62.71	156.69	-90.00	-3,226.81	3,056.83	2,000.45	1,785.07	215.38	9.288		
9,900.00	7,806.96	7,809.96	7,809.96	64.21	156.69	-90.00	-3,226.81	3,056.83	1,993.09	1,775.26	217.83	9.150		
9,997.04	7,806.96	7,809.96	7,809.96	65.67	156.69	-90.00	-3,226.81	3,056.83	1,990.72	1,770.60	220.12	9.044 CC		
10,000.00	7,806.96	7,809.96	7,809.96	65.72	156.69	-90.00	-3,226.81	3,056.83	1,990.72	1,770.53	220.19	9.041 ES		
10,100.00	7,806.96	7,809.96	7,809.96	67.24	156.69	-90.00	-3,226.81	3,056.83	1,993.38	1,770.93	222.46	8.961		
10,200.00	7,806.95	7,809.95	7,809.95	68.78	156.69	-90.00	-3,226.81	3,056.83	2,001.04	1,776.44	224.60	8.909		
10,300.00	7,806.95	7,809.95	7,809.95	70.32	156.69	-90.00	-3,226.81	3,056.83	2,013.64	1,787.04	226.60	8.886 SF		
10,400.00	7,806.95	7,809.95	7,809.95	71.88	156.69	-90.00	-3,226.81	3,056.83	2,031.10	1,802.65	228.45	8.891		
10,500.00	7,806.95	7,809.95	7,809.95	73.45	156.69	-90.00	-3,226.81	3,056.83	2,053.27	1,823.14	230.13	8.922		
10,600.00	7,806.95	7,809.95	7,809.95	75.02	156.69	-90.00	-3,226.81	3,056.83	2,080.03	1,848.38	231.65	8.979		
10,700.00	7,806.94	7,809.94	7,809.94	76.61	156.69	-90.00	-3,226.81	3,056.83	2,111.19	1,878.19	233.00	9.061		
10,800.00	7,806.94	7,809.94	7,809.94	78.20	156.69	-90.00	-3,226.81	3,056.83	2,146.56	1,912.37	234.19	9.166		
10,900.00	7,806.94	7,809.94	7,809.94	79.80	156.69	-90.00	-3,226.81	3,056.83	2,185.93	1,950.71	235.22	9.293		
11,000.00	7,806.94	7,809.94	7,809.94	81.41	156.69	-90.00	-3,226.81	3,056.83	2,229.10	1,993.00	236.10	9.441		
11,100.00	7,806.93	7,809.93	7,809.93	83.02	156.69	-90.00	-3,226.81	3,056.83	2,275.85	2,039.01	236.84	9.609		
11,200.00	7,806.93	7,809.93	7,809.93	84.64	156.69	-90.00	-3,226.81	3,056.83	2,325.96	2,088.50	237.45	9.795		
11,300.00	7,806.93	7,809.93	7,809.93	86.27	156.69	-90.00	-3,226.81	3,056.83	2,379.22	2,141.27	237.95	9.999		
11,400.00	7,806.93	7,809.93	7,809.93	87.90	156.69	-90.00	-3,226.81	3,056.83	2,435.42	2,197.08	238.34	10.218		
11,500.00	7,806.92	7,809.92	7,809.92	89.54	156.69	-90.00	-3,226.81	3,056.83	2,494.36	2,255.73	238.64	10.453		
11,600.00	7,806.92	7,809.92	7,809.92	91.18	156.69	-90.00	-3,226.81	3,056.83	2,555.86	2,317.01	238.85	10.701		
11,700.00	7,806.92	7,809.92	7,809.92	92.83	156.69	-90.00	-3,226.81	3,056.83	2,619.74	2,380.75	238.99	10.962		
11,800.00	7,806.92	7,809.92	7,809.92	94.48	156.69	-90.00	-3,226.81	3,056.83	2,685.82	2,446.75	239.06	11.235		
11,900.00	7,806.91	7,809.91	7,809.91	96.14	156.69	-90.00	-3,226.81	3,056.83	2,753.94	2,514.86	239.08	11.519		
12,000.00	7,806.91	7,809.91	7,809.91	97.80	156.69	-90.00	-3,226.81	3,056.83	2,823.97	2,584.91	239.06	11.813		
12,100.00	7,806.91	7,809.91	7,809.91	99.46	156.69	-90.00	-3,226.81	3,056.83	2,895.75	2,656.76	238.99	12.117		
12,200.00	7,806.91	7,809.91	7,809.91	101.13	156.69	-90.00	-3,226.81	3,056.83	2,969.17	2,730.28	238.89	12.429		
12,300.00	7,806.90	7,809.90	7,809.90	102.80	156.69	-90.00	-3,226.81	3,056.83	3,044.11	2,805.35	238.76	12.750		
12,400.00	7,806.90	7,809.90	7,809.90	104.47	156.69	-90.00	-3,226.81	3,056.83	3,120.44	2,881.84	238.60	13.078		
12,500.00	7,806.90	7,809.90	7,809.90	106.15	156.69	-90.00	-3,226.81	3,056.83	3,198.09	2,959.66	238.43	13.413		
12,600.00	7,806.90	7,809.90	7,809.90	107.83	156.69	-90.00	-3,226.81	3,056.83	3,276.94	3,038.71	238.24	13.755		
12,700.00	7,806.89	7,809.89	7,809.89	109.52	156.69	-90.00	-3,226.81	3,056.83	3,356.92	3,118.89	238.03	14.103		
12,800.00	7,806.89	7,809.89	7,809.89	111.20	156.69	-90.00	-3,226.81	3,056.83	3,437.95	3,200.14	237.82	14.456		
12,900.00	7,806.89	7,809.89	7,809.89	112.89	156.69	-90.00	-3,226.81	3,056.83	3,519.96	3,282.36	237.60	14.815		
13,000.00	7,806.89	7,809.89	7,809.89	114.59	156.69	-90.00	-3,226.81	3,056.83	3,602.88	3,365.51	237.37	15.178		
13,100.00	7,806.88	7,809.88	7,809.88	116.28	156.69	-90.00	-3,226.81	3,056.83	3,686.64	3,449.50	237.14	15.546		
13,200.00	7,806.88	7,809.88	7,809.88	117.98	156.69	-90.00	-3,226.81	3,056.83	3,771.19	3,534.29	236.91	15.919		
13,300.00	7,806.88	7,809.88	7,809.88	119.68	156.69	-90.00	-3,226.81	3,056.83	3,856.49	3,619.82	236.67	16.295		
13,400.00	7,806.88	7,809.88	7,809.88	121.38	156.69	-90.00	-3,226.81	3,056.83	3,942.47	3,706.04	236.44	16.675		
13,500.00	7,806.88	7,809.88	7,809.88	123.08	156.69	-90.00	-3,226.81	3,056.83	4,029.10	3,792.90	236.20	17.058		
13,600.00	7,806.87	7,809.87	7,809.87	124.79	156.69	-90.00	-3,226.81	3,056.83	4,116.34	3,880.37	235.97	17.444		
13,700.00	7,806.87	7,809.87	7,809.87	126.49	156.69	-90.00	-3,226.81	3,056.83	4,204.15	3,968.41	235.74	17.834		
13,800.00	7,806.87	7,809.87	7,809.87	128.20	156.69	-90.00	-3,226.81	3,056.83	4,292.49	4,056.97	235.51	18.226		
13,900.00	7,806.87	7,809.87	7,809.87	129.91	156.69	-90.00	-3,226.81	3,056.83	4,381.33	4,146.04	235.29	18.621		
14,000.00	7,806.86	7,809.86	7,809.86	131.62	156.69	-90.00	-3,226.81	3,056.83	4,470.64	4,235.57	235.07	19.019		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,809.86	7,809.86	133.34	156.69	-90.00	-3,226.81	3,056.83	4,560.40	4,325.55	234.85	19.418		
14,200.00	7,806.86	7,809.86	7,809.86	135.05	156.69	-90.00	-3,226.81	3,056.83	4,650.57	4,415.93	234.64	19.820		
14,300.00	7,806.86	7,809.86	7,809.86	136.77	156.69	-90.00	-3,226.81	3,056.83	4,741.14	4,506.71	234.43	20.224		
14,400.00	7,806.85	7,809.85	7,809.85	138.49	156.69	-90.00	-3,226.81	3,056.83	4,832.08	4,597.85	234.23	20.630		
14,500.00	7,806.85	7,809.85	7,809.85	140.21	156.69	-90.00	-3,226.81	3,056.83	4,923.37	4,689.34	234.03	21.038		
14,600.00	7,806.85	7,809.85	7,809.85	141.93	156.69	-90.00	-3,226.81	3,056.83	5,014.99	4,781.16	233.83	21.447		
14,700.00	7,806.85	7,809.85	7,809.85	143.65	156.69	-90.00	-3,226.81	3,056.83	5,106.93	4,873.29	233.64	21.858		
14,800.00	7,806.84	7,809.84	7,809.84	145.37	156.69	-90.00	-3,226.81	3,056.83	5,199.17	4,965.71	233.46	22.270		
14,900.00	7,806.84	7,809.84	7,809.84	147.10	156.69	-90.00	-3,226.81	3,056.83	5,291.69	5,058.41	233.28	22.684		
15,000.00	7,806.84	7,809.84	7,809.84	148.83	156.69	-90.00	-3,226.81	3,056.83	5,384.47	5,151.37	233.10	23.099		
15,100.00	7,806.84	7,809.84	7,809.84	150.55	156.69	-90.00	-3,226.81	3,056.83	5,477.51	5,244.58	232.93	23.515		
15,200.00	7,806.83	7,809.83	7,809.83	152.28	156.69	-90.00	-3,226.81	3,056.83	5,570.79	5,338.03	232.77	23.933		
15,300.00	7,806.83	7,809.83	7,809.83	154.01	156.69	-90.00	-3,226.81	3,056.83	5,664.30	5,431.70	232.60	24.352		
15,400.00	7,806.83	7,809.83	7,809.83	155.74	156.69	-90.00	-3,226.81	3,056.83	5,758.03	5,525.58	232.45	24.771		
15,500.00	7,806.83	7,809.83	7,809.83	157.47	156.69	-90.00	-3,226.81	3,056.83	5,851.96	5,619.67	232.29	25.192		
15,600.00	7,806.82	7,809.82	7,809.82	159.20	156.69	-90.00	-3,226.81	3,056.83	5,946.10	5,713.95	232.15	25.614		
15,700.00	7,806.82	7,809.82	7,809.82	160.93	156.69	-90.00	-3,226.81	3,056.83	6,040.42	5,808.42	232.00	26.036		
15,800.00	7,806.82	7,809.82	7,809.82	162.67	156.69	-90.00	-3,226.81	3,056.83	6,134.92	5,903.06	231.86	26.459		
15,900.00	7,806.82	7,809.82	7,809.82	164.40	156.69	-90.00	-3,226.81	3,056.83	6,229.59	5,997.87	231.73	26.883		
16,000.00	7,806.81	7,809.81	7,809.81	166.14	156.69	-90.00	-3,226.81	3,056.83	6,324.43	6,092.84	231.59	27.308		
16,100.00	7,806.81	7,809.81	7,809.81	167.87	156.69	-90.00	-3,226.81	3,056.83	6,419.43	6,187.96	231.47	27.734		
16,200.00	7,806.81	7,809.81	7,809.81	169.61	156.69	-90.00	-3,226.81	3,056.83	6,514.57	6,283.23	231.34	28.160		
16,300.00	7,806.81	7,809.81	7,809.81	171.35	156.69	-90.00	-3,226.81	3,056.83	6,609.86	6,378.63	231.22	28.587		
16,400.00	7,806.81	7,809.81	7,809.81	173.09	156.69	-90.00	-3,226.81	3,056.83	6,705.28	6,474.18	231.11	29.014		
16,500.00	7,806.80	7,809.80	7,809.80	174.83	156.69	-90.00	-3,226.81	3,056.83	6,800.84	6,569.84	230.99	29.442		
16,600.00	7,806.80	7,809.80	7,809.80	176.57	156.69	-90.00	-3,226.81	3,056.83	6,896.52	6,665.64	230.88	29.870		
16,700.00	7,806.80	7,809.80	7,809.80	178.31	156.69	-90.00	-3,226.81	3,056.83	6,992.32	6,761.54	230.78	30.299		
16,800.00	7,806.80	7,809.80	7,809.80	180.05	156.69	-90.00	-3,226.81	3,056.83	7,088.24	6,857.56	230.68	30.728		
16,900.00	7,806.79	7,809.79	7,809.79	181.79	156.69	-90.00	-3,226.81	3,056.83	7,184.27	6,953.69	230.58	31.158		
17,000.00	7,806.79	7,809.79	7,809.79	183.53	156.69	-90.00	-3,226.81	3,056.83	7,280.41	7,049.93	230.48	31.588		
17,100.00	7,806.79	7,809.79	7,809.79	185.27	156.69	-90.00	-3,226.81	3,056.83	7,376.65	7,146.26	230.39	32.018		
17,200.00	7,806.79	7,809.79	7,809.79	187.02	156.69	-89.99	-3,226.81	3,056.83	7,472.99	7,242.69	230.30	32.449		
17,300.00	7,806.78	7,809.78	7,809.78	188.76	156.69	-89.99	-3,226.81	3,056.83	7,569.42	7,339.20	230.22	32.880		
17,400.00	7,806.78	7,809.78	7,809.78	190.51	156.69	-89.99	-3,226.81	3,056.83	7,665.95	7,435.81	230.13	33.311		
17,500.00	7,806.78	7,809.78	7,809.78	192.25	156.69	-89.99	-3,226.81	3,056.83	7,762.56	7,532.51	230.05	33.743		
17,600.00	7,806.78	7,809.78	7,809.78	194.00	156.69	-89.99	-3,226.81	3,056.83	7,859.26	7,629.28	229.98	34.174		
17,700.00	7,806.77	7,809.77	7,809.77	195.74	156.69	-89.99	-3,226.81	3,056.83	7,956.03	7,726.13	229.90	34.606		
17,800.00	7,806.77	7,809.77	7,809.77	197.49	156.69	-89.99	-3,226.81	3,056.83	8,052.89	7,823.06	229.83	35.039		
17,900.00	7,806.77	7,809.77	7,809.77	199.24	156.69	-89.99	-3,226.81	3,056.83	8,149.83	7,920.07	229.76	35.471		
17,973.82	7,807.00	7,810.00	7,810.00	200.53	156.69	-89.99	-3,226.81	3,056.83	8,221.46	7,991.75	229.72	35.789		
17,974.53	7,807.00	7,810.00	7,810.00	200.55	156.69	-89.99	-3,226.81	3,056.83	8,222.15	7,990.43	231.73	35.482		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 6-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,900.00	5,747.16	6,090.05	5,803.16	29.15	37.65	16.64	-9,374.38	5,963.29	9,983.01	9,925.55	57.46	173.730		
6,000.00	5,843.60	6,126.00	5,839.01	29.74	37.76	16.67	-9,375.45	5,960.89	9,956.58	9,898.58	58.01	171.639		
6,100.00	5,940.03	6,167.00	5,879.93	30.32	37.87	16.71	-9,376.68	5,958.59	9,930.74	9,872.18	58.56	169.594		
6,200.00	6,036.47	6,273.06	5,985.83	30.90	38.15	16.79	-9,379.35	5,953.46	9,905.04	9,845.76	59.28	167.102		
6,300.00	6,132.91	6,442.35	6,154.96	31.49	38.58	16.91	-9,381.88	5,946.65	9,878.90	9,818.76	60.14	164.265		
6,400.00	6,229.34	6,532.57	6,245.12	32.07	38.81	16.97	-9,382.58	5,943.50	9,852.44	9,791.64	60.80	162.049		
6,500.00	6,325.78	6,617.93	6,330.44	32.66	39.02	17.03	-9,383.18	5,940.84	9,826.12	9,764.68	61.44	159.924		
6,552.14	6,376.06	6,677.44	6,389.93	32.96	39.16	17.06	-9,383.38	5,939.33	9,812.39	9,750.58	61.81	158.751		
6,600.00	6,422.32	6,805.02	6,517.48	33.24	39.46	17.05	-9,382.62	5,936.89	9,799.91	9,737.62	62.29	157.315		
6,700.00	6,519.60	6,895.44	6,607.89	33.78	39.66	16.95	-9,381.30	5,935.76	9,775.89	9,712.98	62.91	155.396		
6,800.00	6,617.63	6,954.87	6,667.31	34.27	39.79	16.85	-9,380.35	5,935.49	9,755.39	9,691.95	63.44	153.764		
6,900.00	6,716.28	7,101.10	6,813.51	34.72	40.10	16.78	-9,377.60	5,935.47	9,738.16	9,674.05	64.12	151.880		
7,000.00	6,815.45	7,197.88	6,910.26	35.13	40.29	16.71	-9,375.22	5,935.88	9,723.95	9,659.26	64.68	150.329		
7,100.00	6,915.00	7,464.65	7,176.86	35.49	40.84	16.65	-9,365.94	5,937.43	9,712.31	9,646.79	65.51	148.246		
7,200.00	7,014.82	7,536.00	7,248.16	35.81	41.00	16.60	-9,363.45	5,936.96	9,703.28	9,637.26	66.02	146.967		
7,300.00	7,114.79	7,574.05	7,286.19	36.09	41.10	16.57	-9,362.48	5,936.45	9,698.02	9,631.55	66.47	145.907		
7,319.21	7,134.00	7,583.40	7,295.54	36.14	41.12	149.75	-9,362.29	5,936.29	9,697.45	9,630.90	66.55	145.710		
7,400.00	7,214.79	7,630.00	7,342.13	36.33	41.23	149.75	-9,361.60	5,935.32	9,695.55	9,628.63	66.92	144.875		
7,419.21	7,234.00	7,630.00	7,342.13	36.37	41.23	149.75	-9,361.60	5,935.32	9,695.14	9,628.16	66.99	144.729		
7,450.00	7,264.77	7,630.00	7,342.13	36.46	41.23	-29.97	-9,361.60	5,935.32	9,693.85	9,626.76	67.09	144.485		
7,500.00	7,314.52	7,670.17	7,382.29	36.62	41.34	-30.23	-9,361.28	5,934.40	9,688.75	9,621.39	67.36	143.845		
7,550.00	7,363.66	7,693.46	7,405.57	36.81	41.40	-30.69	-9,361.16	5,933.93	9,680.07	9,612.49	67.58	143.246		
7,600.00	7,411.80	7,724.00	7,436.11	37.03	41.47	-31.36	-9,361.08	5,933.36	9,667.86	9,600.06	67.81	142.574		
7,650.00	7,458.60	7,748.74	7,460.84	37.29	41.53	-32.26	-9,361.06	5,932.93	9,652.18	9,584.16	68.02	141.899		
7,700.00	7,503.68	7,785.26	7,497.35	37.57	41.63	-33.43	-9,361.05	5,932.29	9,633.10	9,564.85	68.25	141.140		
7,750.00	7,546.72	7,820.47	7,532.56	37.89	41.71	-34.90	-9,361.08	5,931.68	9,610.77	9,542.30	68.47	140.368		
7,800.00	7,587.37	7,858.18	7,570.27	38.23	41.81	-36.71	-9,361.12	5,931.06	9,585.33	9,516.65	68.68	139.568		
7,850.00	7,625.34	7,893.38	7,605.47	38.59	41.90	-38.92	-9,361.15	5,930.52	9,556.98	9,488.11	68.87	138.771		
7,900.00	7,660.33	7,912.00	7,624.08	38.99	41.94	-41.54	-9,361.15	5,930.25	9,525.95	9,456.95	69.01	138.046		
7,950.00	7,692.07	7,940.58	7,652.66	39.40	42.01	-44.74	-9,361.17	5,929.88	9,492.50	9,423.35	69.15	137.276		
8,000.00	7,720.33	7,957.94	7,670.01	39.85	42.06	-48.51	-9,361.19	5,929.69	9,456.89	9,387.64	69.25	136.561		
8,050.00	7,744.88	7,973.05	7,685.12	40.31	42.09	-53.00	-9,361.22	5,929.55	9,419.39	9,350.06	69.33	135.862		
8,100.00	7,765.55	7,985.80	7,697.87	40.79	42.12	-58.27	-9,361.24	5,929.44	9,380.29	9,310.90	69.39	135.182		
8,150.00	7,782.18	8,006.00	7,718.07	41.30	42.17	-64.47	-9,361.30	5,929.30	9,339.88	9,270.43	69.45	134.483		
8,200.00	7,794.63	8,006.00	7,718.07	41.81	42.17	-71.32	-9,361.30	5,929.30	9,298.44	9,228.99	69.45	133.883		
8,250.00	7,802.82	8,010.51	7,722.58	42.34	42.18	-78.92	-9,361.31	5,929.27	9,256.33	9,186.88	69.45	133.281		
8,300.00	7,806.68	8,014.28	7,726.35	42.88	42.19	-86.96	-9,361.32	5,929.24	9,213.83	9,144.40	69.43	132.699		
8,319.29	7,807.00	8,014.64	7,726.71	43.09	42.19	-90.09	-9,361.32	5,929.24	9,197.41	9,127.99	69.42	132.483		
8,400.00	7,807.00	8,014.86	7,726.93	43.98	42.19	-90.10	-9,361.32	5,929.24	9,128.80	9,059.42	69.38	131.569		
8,500.00	7,807.00	8,015.13	7,727.21	45.12	42.19	-90.10	-9,361.32	5,929.24	9,044.08	8,974.70	69.37	130.368		
8,600.00	7,806.99	8,015.40	7,727.48	46.31	42.19	-90.10	-9,361.32	5,929.24	8,959.67	8,890.26	69.41	129.088		
8,700.00	7,806.99	8,015.68	7,727.75	47.53	42.20	-90.11	-9,361.32	5,929.24	8,875.58	8,806.09	69.49	127.730		
8,800.00	7,806.99	8,015.95	7,728.03	48.78	42.20	-90.11	-9,361.33	5,929.23	8,791.82	8,722.21	69.61	126.292		
8,900.00	7,806.99	8,016.23	7,728.30	50.07	42.20	-90.11	-9,361.33	5,929.23	8,708.41	8,638.62	69.79	124.776		
9,000.00	7,806.98	8,016.50	7,728.58	51.38	42.20	-90.12	-9,361.33	5,929.23	8,625.35	8,555.33	70.02	123.182		
9,100.00	7,806.98	8,016.78	7,728.85	52.72	42.20	-90.12	-9,361.33	5,929.23	8,542.65	8,472.35	70.30	121.512		
9,200.00	7,806.98	8,017.05	7,729.13	54.09	42.20	-90.12	-9,361.33	5,929.23	8,460.33	8,389.69	70.64	119.769		
9,300.00	7,806.98	8,017.33	7,729.40	55.48	42.20	-90.13	-9,361.33	5,929.22	8,378.39	8,307.36	71.03	117.957		
9,400.00	7,806.97	8,017.60	7,729.68	56.89	42.20	-90.13	-9,361.33	5,929.22	8,296.85	8,225.37	71.48	116.080		
9,500.00	7,806.97	8,017.88	7,729.96	58.32	42.20	-90.13	-9,361.33	5,929.22	8,215.72	8,143.74	71.98	114.142		
9,600.00	7,806.97	8,018.16	7,730.23	59.77	42.20	-90.14	-9,361.33	5,929.22	8,135.00	8,062.46	72.54	112.150		
9,700.00	7,806.97	8,018.43	7,730.51	61.23	42.20	-90.14	-9,361.33	5,929.22	8,054.72	7,981.57	73.15	110.108		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 6-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,800.00	7,806.96	8,018.71	7,730.79	62.71	42.20	-90.14	-9,361.33	5,929.22	7,974.88	7,901.06	73.83	108.024		
9,900.00	7,806.96	8,018.99	7,731.06	64.21	42.20	-90.15	-9,361.33	5,929.21	7,895.51	7,820.95	74.55	105.903		
10,000.00	7,806.96	8,019.27	7,731.34	65.72	42.20	-90.15	-9,361.33	5,929.21	7,816.60	7,741.26	75.34	103.751		
10,100.00	7,806.96	8,019.55	7,731.62	67.24	42.20	-90.15	-9,361.34	5,929.21	7,738.19	7,662.01	76.18	101.576		
10,200.00	7,806.95	8,019.82	7,731.90	68.78	42.21	-90.16	-9,361.34	5,929.21	7,660.28	7,583.20	77.08	99.383		
10,300.00	7,806.95	8,020.10	7,732.18	70.32	42.21	-90.16	-9,361.34	5,929.21	7,582.88	7,504.85	78.03	97.178		
10,400.00	7,806.95	8,020.38	7,732.46	71.88	42.21	-90.16	-9,361.34	5,929.21	7,506.02	7,426.98	79.04	94.968		
10,500.00	7,806.95	8,020.66	7,732.74	73.45	42.21	-90.17	-9,361.34	5,929.20	7,429.71	7,349.61	80.10	92.758		
10,600.00	7,806.95	8,020.94	7,733.02	75.02	42.21	-90.17	-9,361.34	5,929.20	7,353.97	7,272.76	81.21	90.553		
10,700.00	7,806.94	8,021.22	7,733.30	76.61	42.21	-90.17	-9,361.34	5,929.20	7,278.81	7,196.44	82.38	88.358		
10,800.00	7,806.94	8,021.50	7,733.58	78.20	42.21	-90.18	-9,361.34	5,929.20	7,204.26	7,120.67	83.60	86.178		
10,900.00	7,806.94	8,021.78	7,733.86	79.80	42.21	-90.18	-9,361.34	5,929.20	7,130.33	7,045.47	84.87	84.018		
11,000.00	7,806.94	8,022.07	7,734.14	81.41	42.21	-90.18	-9,361.34	5,929.19	7,057.05	6,970.86	86.19	81.880		
11,100.00	7,806.93	8,022.35	7,734.42	83.02	42.21	-90.19	-9,361.34	5,929.19	6,984.42	6,896.87	87.56	79.769		
11,200.00	7,806.93	8,022.63	7,734.70	84.64	42.21	-90.19	-9,361.34	5,929.19	6,912.48	6,823.51	88.98	77.687		
11,300.00	7,806.93	8,022.91	7,734.99	86.27	42.21	-90.19	-9,361.35	5,929.19	6,841.25	6,750.80	90.45	75.637		
11,400.00	7,806.93	8,023.19	7,735.27	87.90	42.21	-90.20	-9,361.35	5,929.19	6,770.74	6,678.78	91.97	73.622		
11,500.00	7,806.92	8,023.48	7,735.55	89.54	42.21	-90.20	-9,361.35	5,929.19	6,700.99	6,607.46	93.53	71.644		
11,600.00	7,806.92	8,023.76	7,735.83	91.18	42.21	-90.20	-9,361.35	5,929.18	6,632.00	6,536.86	95.14	69.705		
11,700.00	7,806.92	8,024.04	7,736.12	92.83	42.22	-90.21	-9,361.35	5,929.18	6,563.82	6,467.02	96.80	67.806		
11,800.00	7,806.92	8,024.33	7,736.40	94.48	42.22	-90.21	-9,361.35	5,929.18	6,496.46	6,397.95	98.51	65.948		
11,900.00	7,806.91	8,024.61	7,736.69	96.14	42.22	-90.21	-9,361.35	5,929.18	6,429.95	6,329.69	100.26	64.133		
12,000.00	7,806.91	8,024.90	7,736.97	97.80	42.22	-90.22	-9,361.35	5,929.18	6,364.32	6,262.26	102.06	62.361		
12,100.00	7,806.91	8,025.18	7,737.26	99.46	42.22	-90.22	-9,361.35	5,929.18	6,299.59	6,195.69	103.90	60.634		
12,200.00	7,806.91	8,025.47	7,737.54	101.13	42.22	-90.22	-9,361.35	5,929.17	6,235.79	6,130.01	105.78	58.951		
12,300.00	7,806.90	8,025.75	7,737.83	102.80	42.22	-90.23	-9,361.35	5,929.17	6,172.95	6,065.24	107.71	57.313		
12,400.00	7,806.90	8,026.04	7,738.11	104.47	42.22	-90.23	-9,361.36	5,929.17	6,111.10	6,001.43	109.67	55.720		
12,500.00	7,806.90	8,026.32	7,738.40	106.15	42.22	-90.23	-9,361.36	5,929.17	6,050.27	5,938.59	111.68	54.173		
12,600.00	7,806.90	8,026.61	7,738.68	107.83	42.22	-90.24	-9,361.36	5,929.17	5,990.50	5,876.76	113.73	52.671		
12,700.00	7,806.89	8,026.90	7,738.97	109.52	42.22	-90.24	-9,361.36	5,929.16	5,931.81	5,815.98	115.82	51.214		
12,800.00	7,806.89	8,027.18	7,739.26	111.20	42.22	-90.24	-9,361.36	5,929.16	5,874.23	5,756.28	117.95	49.801		
12,900.00	7,806.89	8,027.47	7,739.55	112.89	42.22	-90.25	-9,361.36	5,929.16	5,817.81	5,697.69	120.12	48.434		
13,000.00	7,806.89	8,027.76	7,739.83	114.59	42.22	-90.25	-9,361.36	5,929.16	5,762.56	5,640.24	122.32	47.110		
13,100.00	7,806.88	8,028.05	7,740.12	116.28	42.22	-90.25	-9,361.36	5,929.16	5,708.54	5,583.98	124.56	45.831		
13,200.00	7,806.88	8,028.34	7,740.41	117.98	42.23	-90.26	-9,361.36	5,929.16	5,655.76	5,528.93	126.83	44.594		
13,300.00	7,806.88	8,028.62	7,740.70	119.68	42.23	-90.26	-9,361.36	5,929.15	5,604.27	5,475.14	129.13	43.401		
13,400.00	7,806.88	8,028.91	7,740.99	121.38	42.23	-90.26	-9,361.36	5,929.15	5,554.11	5,422.65	131.46	42.249		
13,500.00	7,806.88	8,029.20	7,741.28	123.08	42.23	-90.27	-9,361.36	5,929.15	5,505.31	5,371.48	133.82	41.139		
13,600.00	7,806.87	8,029.49	7,741.57	124.79	42.23	-90.27	-9,361.37	5,929.15	5,457.90	5,321.69	136.21	40.070		
13,700.00	7,806.87	8,029.78	7,741.86	126.49	42.23	-90.27	-9,361.37	5,929.15	5,411.92	5,273.30	138.62	39.041		
13,800.00	7,806.87	8,030.07	7,742.15	128.20	42.23	-90.28	-9,361.37	5,929.14	5,367.42	5,226.36	141.06	38.052		
13,900.00	7,806.87	8,030.36	7,742.44	129.91	42.23	-90.28	-9,361.37	5,929.14	5,324.42	5,180.91	143.51	37.102		
14,000.00	7,806.86	8,030.66	7,742.73	131.62	42.23	-90.28	-9,361.37	5,929.14	5,282.96	5,136.98	145.98	36.189		
14,100.00	7,806.86	8,030.95	7,743.02	133.34	42.23	-90.29	-9,361.37	5,929.14	5,243.09	5,094.62	148.47	35.315		
14,200.00	7,806.86	8,031.24	7,743.31	135.05	42.23	-90.29	-9,361.37	5,929.14	5,204.82	5,053.86	150.97	34.477		
14,300.00	7,806.86	8,031.53	7,743.61	136.77	42.23	-90.29	-9,361.37	5,929.14	5,168.22	5,014.74	153.48	33.674		
14,400.00	7,806.85	8,031.82	7,743.90	138.49	42.23	-90.30	-9,361.37	5,929.13	5,133.29	4,977.30	155.99	32.908		
14,500.00	7,806.85	8,032.12	7,744.19	140.21	42.23	-90.30	-9,361.37	5,929.13	5,100.09	4,941.59	158.51	32.175		
14,600.00	7,806.85	8,032.41	7,744.48	141.93	42.24	-90.30	-9,361.37	5,929.13	5,068.65	4,907.62	161.03	31.477		
14,700.00	7,806.85	8,032.70	7,744.78	143.65	42.24	-90.31	-9,361.38	5,929.13	5,039.00	4,875.45	163.54	30.811		
14,800.00	7,806.84	8,033.00	7,745.07	145.37	42.24	-90.31	-9,361.38	5,929.13	5,011.16	4,845.11	166.05	30.178		
14,900.00	7,806.84	8,033.29	7,745.37	147.10	42.24	-90.32	-9,361.38	5,929.12	4,985.18	4,816.63	168.55	29.577		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
15,000.00	7,806.84	8,033.59	7,745.66	148.83	42.24	-90.32	-9,361.38	5,929.12	4,961.07	4,790.04	171.04	29.006	
15,100.00	7,806.84	8,033.88	7,745.96	150.55	42.24	-90.32	-9,361.38	5,929.12	4,938.88	4,765.37	173.50	28.465	
15,200.00	7,806.83	8,034.18	7,746.25	152.28	42.24	-90.33	-9,361.38	5,929.12	4,918.61	4,742.66	175.95	27.954	
15,300.00	7,806.83	8,034.47	7,746.55	154.01	42.24	-90.33	-9,361.38	5,929.12	4,900.31	4,721.93	178.38	27.472	
15,400.00	7,806.83	8,034.77	7,746.84	155.74	42.24	-90.33	-9,361.38	5,929.12	4,883.98	4,703.21	180.77	27.018	
15,500.00	7,806.83	8,035.06	7,747.14	157.47	42.24	-90.34	-9,361.38	5,929.11	4,869.65	4,686.52	183.13	26.591	
15,600.00	7,806.82	8,035.36	7,747.44	159.20	42.24	-90.34	-9,361.38	5,929.11	4,857.34	4,671.88	185.46	26.190	
15,700.00	7,806.82	8,035.66	7,747.73	160.93	42.24	-90.34	-9,361.38	5,929.11	4,847.06	4,659.31	187.75	25.816	
15,800.00	7,806.82	8,035.96	7,748.03	162.67	42.24	-90.35	-9,361.39	5,929.11	4,838.83	4,648.83	190.00	25.467	
15,900.00	7,806.82	8,036.25	7,748.33	164.40	42.24	-90.35	-9,361.39	5,929.11	4,832.65	4,640.45	192.21	25.143	
16,000.00	7,806.81	8,036.55	7,748.63	166.14	42.25	-90.35	-9,361.39	5,929.10	4,828.54	4,634.18	194.36	24.843	
16,100.00	7,806.81	8,036.85	7,748.92	167.87	42.25	-90.36	-9,361.39	5,929.10	4,826.49	4,630.03	196.46	24.567	
16,148.74	7,806.81	8,037.00	7,749.07	168.72	42.25	-90.36	-9,361.39	5,929.10	4,826.25	4,628.78	197.47	24.440 CC	
16,200.00	7,806.81	8,037.15	7,749.22	169.61	42.25	-90.36	-9,361.39	5,929.10	4,826.52	4,628.00	198.51	24.313 ES	
16,300.00	7,806.81	8,037.45	7,749.52	171.35	42.25	-90.36	-9,361.39	5,929.10	4,828.62	4,628.11	200.51	24.082	
16,400.00	7,806.81	8,037.75	7,749.82	173.09	42.25	-90.37	-9,361.39	5,929.10	4,832.78	4,630.34	202.44	23.873	
16,500.00	7,806.80	8,038.05	7,750.12	174.83	42.25	-90.37	-9,361.39	5,929.09	4,839.01	4,634.70	204.31	23.684	
16,600.00	7,806.80	8,038.35	7,750.42	176.57	42.25	-90.38	-9,361.39	5,929.09	4,847.30	4,641.17	206.12	23.516	
16,700.00	7,806.80	8,038.65	7,750.72	178.31	42.25	-90.38	-9,361.39	5,929.09	4,857.63	4,649.76	207.87	23.369	
16,800.00	7,806.80	8,038.95	7,751.02	180.05	42.25	-90.38	-9,361.39	5,929.09	4,869.99	4,660.44	209.55	23.241	
16,900.00	7,806.79	8,039.25	7,751.33	181.79	42.25	-90.39	-9,361.40	5,929.09	4,884.37	4,673.21	211.16	23.132	
17,000.00	7,806.79	8,039.55	7,751.63	183.53	42.25	-90.39	-9,361.40	5,929.09	4,900.74	4,688.05	212.70	23.041	
17,100.00	7,806.79	8,039.85	7,751.93	185.27	42.25	-90.39	-9,361.40	5,929.08	4,919.10	4,704.93	214.17	22.968	
17,200.00	7,806.79	8,040.16	7,752.23	187.02	42.25	-90.40	-9,361.40	5,929.08	4,939.41	4,723.84	215.57	22.913	
17,300.00	7,806.78	8,040.46	7,752.53	188.76	42.25	-90.40	-9,361.40	5,929.08	4,961.66	4,744.76	216.90	22.875	
17,400.00	7,806.78	8,040.76	7,752.84	190.51	42.26	-90.40	-9,361.40	5,929.08	4,985.81	4,767.65	218.16	22.854	
17,500.00	7,806.78	8,041.07	7,753.14	192.25	42.26	-90.41	-9,361.40	5,929.08	5,011.84	4,792.49	219.35	22.848 SF	
17,600.00	7,806.78	8,041.37	7,753.44	194.00	42.26	-90.41	-9,361.40	5,929.07	5,039.72	4,819.25	220.47	22.859	
17,700.00	7,806.77	8,041.67	7,753.75	195.74	42.26	-90.41	-9,361.40	5,929.07	5,069.42	4,847.90	221.52	22.884	
17,800.00	7,806.77	8,041.98	7,754.05	197.49	42.26	-90.42	-9,361.40	5,929.07	5,100.91	4,878.41	222.51	22.925	
17,900.00	7,806.77	8,042.28	7,754.36	199.24	42.26	-90.42	-9,361.41	5,929.07	5,134.15	4,910.73	223.42	22.980	
17,973.82	7,807.00	8,042.74	7,754.82	200.53	42.26	-90.42	-9,361.41	5,929.07	5,159.94	4,935.89	224.06	23.030	
17,974.53	7,807.00	8,042.74	7,754.82	200.55	42.26	-90.42	-9,361.41	5,929.07	5,160.19	4,935.99	224.20	23.016	

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,050.00	7,744.88	7,709.88	7,709.88	40.31	154.68	-36.48	-10,730.31	4,274.11	9,963.30	9,777.85	185.45	53.725		
8,100.00	7,765.55	7,730.55	7,730.55	40.79	155.09	-42.02	-10,730.31	4,274.11	9,920.15	9,734.28	185.87	53.370		
8,150.00	7,782.18	7,747.18	7,747.18	41.30	155.43	-49.27	-10,730.31	4,274.11	9,875.49	9,689.29	186.20	53.038		
8,200.00	7,794.63	7,759.63	7,759.63	41.81	155.68	-58.70	-10,730.31	4,274.11	9,829.64	9,643.23	186.42	52.730		
8,250.00	7,802.82	7,767.82	7,767.82	42.34	155.84	-70.56	-10,730.31	4,274.11	9,782.97	9,596.44	186.53	52.447		
8,300.00	7,806.68	7,771.68	7,771.68	42.88	155.92	-84.41	-10,730.31	4,274.11	9,735.82	9,549.28	186.55	52.190		
8,319.29	7,807.00	7,772.00	7,772.00	43.09	155.93	-90.00	-10,730.31	4,274.11	9,717.58	9,531.06	186.52	52.098		
8,400.00	7,807.00	7,772.00	7,772.00	43.98	155.93	-90.00	-10,730.31	4,274.11	9,641.31	9,454.90	186.41	51.722		
8,500.00	7,807.00	7,772.00	7,772.00	45.12	155.93	-90.00	-10,730.31	4,274.11	9,546.90	9,360.63	186.27	51.253		
8,600.00	7,806.99	7,771.99	7,771.99	46.31	155.93	-90.00	-10,730.31	4,274.11	9,452.60	9,266.45	186.15	50.780		
8,700.00	7,806.99	7,771.99	7,771.99	47.53	155.93	-90.00	-10,730.31	4,274.11	9,358.43	9,172.39	186.04	50.303		
8,800.00	7,806.99	7,771.99	7,771.99	48.78	155.93	-90.00	-10,730.31	4,274.11	9,264.37	9,078.42	185.95	49.822		
8,900.00	7,806.99	7,771.99	7,771.99	50.07	155.93	-90.00	-10,730.31	4,274.11	9,170.45	8,984.57	185.88	49.336		
9,000.00	7,806.98	7,771.98	7,771.98	51.38	155.93	-90.00	-10,730.31	4,274.11	9,076.65	8,890.83	185.82	48.846		
9,100.00	7,806.98	7,771.98	7,771.98	52.72	155.93	-90.00	-10,730.31	4,274.11	8,982.98	8,797.20	185.78	48.352		
9,200.00	7,806.98	7,771.98	7,771.98	54.09	155.93	-90.00	-10,730.31	4,274.11	8,889.46	8,703.69	185.77	47.852		
9,300.00	7,806.98	7,771.98	7,771.98	55.48	155.93	-90.00	-10,730.31	4,274.11	8,796.07	8,610.30	185.78	47.348		
9,400.00	7,806.97	7,771.97	7,771.97	56.89	155.93	-90.00	-10,730.31	4,274.11	8,702.84	8,517.03	185.81	46.838		
9,500.00	7,806.97	7,771.97	7,771.97	58.32	155.93	-90.00	-10,730.31	4,274.11	8,609.75	8,423.89	185.86	46.324		
9,600.00	7,806.97	7,771.97	7,771.97	59.77	155.93	-90.00	-10,730.31	4,274.11	8,516.82	8,330.88	185.94	45.803		
9,700.00	7,806.97	7,771.97	7,771.97	61.23	155.93	-90.00	-10,730.31	4,274.11	8,424.06	8,238.00	186.05	45.278		
9,800.00	7,806.96	7,771.96	7,771.96	62.71	155.93	-90.00	-10,730.31	4,274.11	8,331.46	8,145.27	186.19	44.747		
9,900.00	7,806.96	7,771.96	7,771.96	64.21	155.93	-90.00	-10,730.31	4,274.11	8,239.03	8,052.67	186.36	44.210		
10,000.00	7,806.96	7,771.96	7,771.96	65.72	155.93	-90.00	-10,730.31	4,274.11	8,146.79	7,960.22	186.57	43.667		
10,100.00	7,806.96	7,771.96	7,771.96	67.24	155.93	-90.00	-10,730.31	4,274.11	8,054.72	7,867.92	186.80	43.119		
10,200.00	7,806.95	7,771.95	7,771.95	68.78	155.93	-90.00	-10,730.31	4,274.11	7,962.85	7,775.78	187.07	42.565		
10,300.00	7,806.95	7,771.95	7,771.95	70.32	155.93	-90.00	-10,730.31	4,274.11	7,871.18	7,683.80	187.38	42.006		
10,400.00	7,806.95	7,771.95	7,771.95	71.88	155.93	-90.00	-10,730.31	4,274.11	7,779.71	7,591.99	187.73	41.442		
10,500.00	7,806.95	7,771.95	7,771.95	73.45	155.93	-90.00	-10,730.31	4,274.11	7,688.46	7,500.35	188.11	40.871		
10,600.00	7,806.95	7,771.95	7,771.95	75.02	155.93	-90.00	-10,730.31	4,274.11	7,597.43	7,408.89	188.54	40.296		
10,700.00	7,806.94	7,771.94	7,771.94	76.61	155.93	-90.00	-10,730.31	4,274.11	7,506.62	7,317.61	189.01	39.716		
10,800.00	7,806.94	7,771.94	7,771.94	78.20	155.93	-90.00	-10,730.31	4,274.11	7,416.05	7,226.53	189.52	39.131		
10,900.00	7,806.94	7,771.94	7,771.94	79.80	155.93	-90.00	-10,730.31	4,274.11	7,325.72	7,135.65	190.07	38.541		
11,000.00	7,806.94	7,771.94	7,771.94	81.41	155.93	-90.00	-10,730.31	4,274.11	7,235.65	7,044.98	190.68	37.947		
11,100.00	7,806.93	7,771.93	7,771.93	83.02	155.93	-90.00	-10,730.31	4,274.11	7,145.85	6,954.53	191.32	37.350		
11,200.00	7,806.93	7,771.93	7,771.93	84.64	155.93	-90.00	-10,730.31	4,274.11	7,056.32	6,864.30	192.02	36.748		
11,300.00	7,806.93	7,771.93	7,771.93	86.27	155.93	-90.00	-10,730.31	4,274.11	6,967.07	6,774.31	192.76	36.143		
11,400.00	7,806.93	7,771.93	7,771.93	87.90	155.93	-90.00	-10,730.31	4,274.11	6,878.12	6,684.56	193.56	35.536		
11,500.00	7,806.92	7,771.92	7,771.92	89.54	155.93	-90.00	-10,730.31	4,274.11	6,789.48	6,595.08	194.40	34.925		
11,600.00	7,806.92	7,771.92	7,771.92	91.18	155.93	-90.00	-10,730.31	4,274.11	6,701.15	6,505.86	195.30	34.313		
11,700.00	7,806.92	7,771.92	7,771.92	92.83	155.93	-90.00	-10,730.31	4,274.11	6,613.16	6,416.92	196.24	33.699		
11,800.00	7,806.92	7,771.92	7,771.92	94.48	155.93	-90.00	-10,730.31	4,274.11	6,525.52	6,328.27	197.24	33.083		
11,900.00	7,806.91	7,771.91	7,771.91	96.14	155.93	-90.00	-10,730.31	4,274.11	6,438.23	6,239.93	198.30	32.467		
12,000.00	7,806.91	7,771.91	7,771.91	97.80	155.93	-90.00	-10,730.31	4,274.11	6,351.32	6,151.91	199.41	31.851		
12,100.00	7,806.91	7,771.91	7,771.91	99.46	155.93	-90.00	-10,730.31	4,274.11	6,264.80	6,064.23	200.58	31.234		
12,200.00	7,806.91	7,771.91	7,771.91	101.13	155.93	-90.00	-10,730.31	4,274.11	6,178.69	5,976.89	201.80	30.618		
12,300.00	7,806.90	7,771.90	7,771.90	102.80	155.93	-90.00	-10,730.31	4,274.11	6,093.00	5,889.92	203.08	30.003		
12,400.00	7,806.90	7,771.90	7,771.90	104.47	155.93	-90.00	-10,730.31	4,274.11	6,007.76	5,803.33	204.42	29.389		
12,500.00	7,806.90	7,771.90	7,771.90	106.15	155.93	-90.00	-10,730.31	4,274.11	5,922.97	5,717.15	205.82	28.777		
12,600.00	7,806.90	7,771.90	7,771.90	107.83	155.92	-90.00	-10,730.31	4,274.11	5,838.67	5,631.38	207.28	28.167		
12,700.00	7,806.89	7,771.89	7,771.89	109.52	155.92	-90.00	-10,730.31	4,274.11	5,754.87	5,546.06	208.81	27.561		
12,800.00	7,806.89	7,771.89	7,771.89	111.20	155.92	-90.00	-10,730.31	4,274.11	5,671.59	5,461.20	210.39	26.957		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,900.00	7,806.89	7,771.89	7,771.89	112.89	155.92	-90.00	-10,730.31	4,274.11	5,588.87	5,376.82	212.05	26.357		
13,000.00	7,806.89	7,771.89	7,771.89	114.59	155.92	-90.00	-10,730.31	4,274.11	5,506.71	5,292.95	213.76	25.761		
13,100.00	7,806.88	7,771.88	7,771.88	116.28	155.92	-90.00	-10,730.31	4,274.11	5,425.16	5,209.61	215.55	25.169		
13,200.00	7,806.88	7,771.88	7,771.88	117.98	155.92	-90.00	-10,730.31	4,274.11	5,344.23	5,126.83	217.40	24.583		
13,300.00	7,806.88	7,771.88	7,771.88	119.68	155.92	-90.00	-10,730.31	4,274.11	5,263.96	5,044.64	219.32	24.002		
13,400.00	7,806.88	7,771.88	7,771.88	121.38	155.92	-90.00	-10,730.31	4,274.11	5,184.37	4,963.07	221.31	23.426		
13,500.00	7,806.88	7,771.88	7,771.88	123.08	155.92	-90.00	-10,730.31	4,274.11	5,105.50	4,882.14	223.37	22.857		
13,600.00	7,806.87	7,771.87	7,771.87	124.79	155.92	-90.00	-10,730.31	4,274.11	5,027.39	4,801.89	225.50	22.294		
13,700.00	7,806.87	7,771.87	7,771.87	126.49	155.92	-90.00	-10,730.31	4,274.11	4,950.06	4,722.35	227.71	21.739		
13,800.00	7,806.87	7,771.87	7,771.87	128.20	155.92	-90.00	-10,730.31	4,274.11	4,873.56	4,643.56	229.99	21.190		
13,900.00	7,806.87	7,771.87	7,771.87	129.91	155.92	-90.00	-10,730.31	4,274.11	4,797.92	4,565.57	232.35	20.650		
14,000.00	7,806.86	7,771.86	7,771.86	131.62	155.92	-90.00	-10,730.31	4,274.11	4,723.18	4,488.40	234.78	20.117		
14,100.00	7,806.86	7,771.86	7,771.86	133.34	155.92	-90.00	-10,730.31	4,274.11	4,649.40	4,412.11	237.29	19.593		
14,200.00	7,806.86	7,771.86	7,771.86	135.05	155.92	-90.00	-10,730.31	4,274.11	4,576.61	4,336.73	239.88	19.078		
14,300.00	7,806.86	7,771.86	7,771.86	136.77	155.92	-90.00	-10,730.31	4,274.11	4,504.87	4,262.32	242.55	18.573		
14,400.00	7,806.85	7,771.85	7,771.85	138.49	155.92	-90.00	-10,730.31	4,274.11	4,434.22	4,188.92	245.30	18.077		
14,500.00	7,806.85	7,771.85	7,771.85	140.21	155.92	-90.00	-10,730.31	4,274.11	4,364.72	4,116.59	248.13	17.591		
14,600.00	7,806.85	7,771.85	7,771.85	141.93	155.92	-90.00	-10,730.31	4,274.11	4,296.42	4,045.39	251.03	17.115		
14,700.00	7,806.85	7,771.85	7,771.85	143.65	155.92	-90.00	-10,730.31	4,274.11	4,229.38	3,975.37	254.01	16.650		
14,800.00	7,806.84	7,771.84	7,771.84	145.37	155.92	-90.00	-10,730.31	4,274.11	4,163.67	3,906.60	257.07	16.197		
14,900.00	7,806.84	7,771.84	7,771.84	147.10	155.92	-90.00	-10,730.31	4,274.11	4,099.34	3,839.14	260.20	15.754		
15,000.00	7,806.84	7,771.84	7,771.84	148.83	155.92	-90.00	-10,730.31	4,274.11	4,036.46	3,773.05	263.41	15.324		
15,100.00	7,806.84	7,771.84	7,771.84	150.55	155.92	-90.00	-10,730.31	4,274.11	3,975.11	3,708.42	266.69	14.905		
15,200.00	7,806.83	7,771.83	7,771.83	152.28	155.92	-90.00	-10,730.31	4,274.11	3,915.35	3,645.31	270.04	14.499		
15,300.00	7,806.83	7,771.83	7,771.83	154.01	155.92	-90.00	-10,730.31	4,274.11	3,857.26	3,583.81	273.45	14.106		
15,400.00	7,806.83	7,771.83	7,771.83	155.74	155.92	-90.00	-10,730.31	4,274.11	3,800.91	3,523.98	276.92	13.726		
15,500.00	7,806.83	7,771.83	7,771.83	157.47	155.92	-90.00	-10,730.31	4,274.11	3,746.38	3,465.93	280.45	13.359		
15,600.00	7,806.82	7,771.82	7,771.82	159.20	155.92	-90.00	-10,730.31	4,274.11	3,693.75	3,409.73	284.02	13.005		
15,700.00	7,806.82	7,771.82	7,771.82	160.93	155.92	-90.00	-10,730.31	4,274.11	3,643.11	3,355.47	287.64	12.666		
15,800.00	7,806.82	7,771.82	7,771.82	162.67	155.92	-90.00	-10,730.31	4,274.11	3,594.54	3,303.25	291.29	12.340		
15,900.00	7,806.82	7,771.82	7,771.82	164.40	155.92	-90.00	-10,730.31	4,274.11	3,548.12	3,253.15	294.97	12.029		
16,000.00	7,806.81	7,771.81	7,771.81	166.14	155.92	-90.00	-10,730.31	4,274.11	3,503.95	3,205.28	298.66	11.732		
16,100.00	7,806.81	7,771.81	7,771.81	167.87	155.92	-90.00	-10,730.31	4,274.11	3,462.09	3,159.73	302.36	11.450		
16,200.00	7,806.81	7,771.81	7,771.81	169.61	155.92	-90.00	-10,730.31	4,274.11	3,422.65	3,116.60	306.05	11.183		
16,300.00	7,806.81	7,771.81	7,771.81	171.35	155.92	-90.00	-10,730.31	4,274.11	3,385.71	3,075.98	309.73	10.931		
16,400.00	7,806.81	7,771.81	7,771.81	173.09	155.92	-90.00	-10,730.31	4,274.11	3,351.34	3,037.97	313.37	10.695		
16,500.00	7,806.80	7,771.80	7,771.80	174.83	155.92	-90.00	-10,730.31	4,274.11	3,319.63	3,002.66	316.97	10.473		
16,600.00	7,806.80	7,771.80	7,771.80	176.57	155.92	-90.00	-10,730.31	4,274.11	3,290.65	2,970.14	320.51	10.267		
16,700.00	7,806.80	7,771.80	7,771.80	178.31	155.92	-90.00	-10,730.31	4,274.11	3,264.48	2,940.51	323.97	10.076		
16,800.00	7,806.80	7,771.80	7,771.80	180.05	155.92	-90.00	-10,730.31	4,274.11	3,241.19	2,913.84	327.35	9.901		
16,900.00	7,806.79	7,771.79	7,771.79	181.79	155.92	-90.00	-10,730.31	4,274.11	3,220.83	2,890.20	330.63	9.742		
17,000.00	7,806.79	7,771.79	7,771.79	183.53	155.92	-90.00	-10,730.31	4,274.11	3,203.47	2,869.68	333.79	9.597		
17,100.00	7,806.79	7,771.79	7,771.79	185.27	155.92	-90.00	-10,730.31	4,274.11	3,189.15	2,852.33	336.82	9.469		
17,200.00	7,806.79	7,771.79	7,771.79	187.02	155.92	-90.00	-10,730.31	4,274.11	3,177.91	2,838.21	339.70	9.355		
17,300.00	7,806.78	7,771.78	7,771.78	188.76	155.92	-90.00	-10,730.31	4,274.11	3,169.79	2,827.37	342.43	9.257		
17,400.00	7,806.78	7,771.78	7,771.78	190.51	155.92	-90.00	-10,730.31	4,274.11	3,164.81	2,819.82	344.99	9.174		
17,500.00	7,806.78	7,771.78	7,771.78	192.25	155.92	-90.00	-10,730.31	4,274.11	3,162.99	2,815.61	347.38	9.105		
17,507.71	7,806.78	7,771.78	7,771.78	192.39	155.92	-90.00	-10,730.31	4,274.11	3,162.98	2,815.43	347.55	9.101 CC		
17,600.00	7,806.78	7,771.78	7,771.78	194.00	155.92	-90.00	-10,730.31	4,274.11	3,164.33	2,814.75	349.58	9.052 ES		
17,700.00	7,806.77	7,771.77	7,771.77	195.74	155.92	-90.00	-10,730.31	4,274.11	3,168.82	2,817.23	351.59	9.013		
17,800.00	7,806.77	7,771.77	7,771.77	197.49	155.92	-90.00	-10,730.31	4,274.11	3,176.46	2,823.05	353.41	8.988		
17,900.00	7,806.77	7,771.77	7,771.77	199.24	155.92	-90.00	-10,730.31	4,274.11	3,187.22	2,832.19	355.03	8.977 SF		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design		Sec 3-T1S-R68W - EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design #1										Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
17,973.82	7,807.00	7,772.00	7,772.00	200.53	155.93	-90.00	-10,730.31	4,274.11	3,197.29	2,841.19	356.10	8.979	
17,974.53	7,807.00	7,772.00	7,772.00	200.55	155.93	-90.00	-10,730.31	4,274.11	3,197.40	2,841.25	356.14	8.978	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	-173.93	-7,377.16	-784.82	7,418.79					
100.00	100.00	109.00	109.00	0.13	1.40	-173.93	-7,377.16	-784.82	7,418.79	7,417.25	1.54	4,821.409		
200.00	200.00	209.00	209.00	0.49	3.67	-173.93	-7,377.16	-784.82	7,418.79	7,414.62	4.17	1,780.016		
300.00	300.00	309.00	309.00	0.85	5.75	-173.93	-7,377.16	-784.82	7,418.79	7,412.19	6.60	1,123.827		
400.00	400.00	409.00	409.00	1.21	7.79	-173.93	-7,377.16	-784.82	7,418.79	7,409.79	9.00	824.233		
500.00	500.00	509.00	509.00	1.57	9.82	-173.93	-7,377.16	-784.82	7,418.79	7,407.40	11.39	651.468		
600.00	600.00	609.00	609.00	1.93	11.84	-173.93	-7,377.16	-784.82	7,418.79	7,405.02	13.77	538.814		
700.00	700.00	709.00	709.00	2.29	13.86	-173.93	-7,377.16	-784.82	7,418.79	7,402.64	16.15	459.473		
800.00	800.00	809.00	809.00	2.64	15.88	-173.93	-7,377.16	-784.82	7,418.79	7,400.27	18.52	400.544		
900.00	900.00	909.00	909.00	3.00	17.89	-173.93	-7,377.16	-784.82	7,418.79	7,397.89	20.90	355.035		
1,000.00	1,000.00	1,009.00	1,009.00	3.36	19.91	-173.93	-7,377.16	-784.82	7,418.79	7,395.52	23.27	318.826		
1,100.00	1,100.00	1,109.00	1,109.00	3.72	21.92	-173.93	-7,377.16	-784.82	7,418.79	7,393.15	25.64	289.327		
1,200.00	1,199.98	1,208.98	1,208.98	4.06	23.94	52.91	-7,377.16	-784.82	7,417.73	7,389.74	28.00	264.932		
1,300.00	1,299.84	1,308.84	1,308.84	4.40	25.95	53.00	-7,377.16	-784.82	7,414.58	7,384.24	30.34	244.356		
1,400.00	1,399.45	1,408.45	1,408.45	4.74	27.95	53.13	-7,377.16	-784.82	7,409.33	7,376.64	32.69	226.656		
1,500.00	1,498.70	1,507.70	1,507.70	5.09	29.95	53.33	-7,377.16	-784.82	7,402.00	7,366.96	35.04	211.260		
1,600.00	1,597.47	1,606.47	1,606.47	5.46	31.94	53.58	-7,377.16	-784.82	7,392.61	7,355.22	37.39	197.737		
1,700.00	1,695.62	1,704.62	1,704.62	5.85	33.91	53.88	-7,377.16	-784.82	7,381.18	7,341.44	39.74	185.751		
1,800.00	1,793.06	1,802.06	1,802.06	6.27	35.87	54.24	-7,377.16	-784.82	7,367.75	7,325.66	42.09	175.042		
1,867.07	1,857.94	1,866.94	1,866.94	6.57	37.18	54.51	-7,377.16	-784.82	7,357.64	7,313.97	43.67	168.470		
1,900.00	1,889.69	1,901.31	1,898.69	6.72	37.87	54.56	-7,377.16	-784.82	7,352.47	7,307.96	44.50	165.209		
2,000.00	1,986.13	2,004.87	1,995.13	7.19	39.95	54.73	-7,377.16	-784.82	7,336.79	7,289.77	47.02	156.044		
2,100.00	2,082.57	2,108.43	2,091.57	7.68	42.03	54.89	-7,377.16	-784.82	7,321.17	7,271.63	49.54	147.771		
2,200.00	2,179.00	2,188.00	2,188.00	8.18	43.64	55.06	-7,377.16	-784.82	7,305.62	7,254.02	51.60	141.585		
2,300.00	2,275.44	2,284.44	2,284.44	8.69	45.58	55.22	-7,377.16	-784.82	7,290.13	7,236.12	54.00	134.997		
2,400.00	2,371.88	2,380.88	2,380.88	9.21	47.52	55.39	-7,377.16	-784.82	7,274.70	7,218.28	56.41	128.953		
2,500.00	2,468.31	2,477.31	2,477.31	9.74	49.46	55.56	-7,377.16	-784.82	7,259.33	7,200.50	58.83	123.391		
2,600.00	2,564.75	2,573.75	2,573.75	10.28	51.39	55.73	-7,377.16	-784.82	7,244.03	7,182.78	61.26	118.257		
2,700.00	2,661.19	2,670.19	2,670.19	10.82	53.33	55.90	-7,377.16	-784.82	7,228.80	7,165.11	63.69	113.505		
2,800.00	2,757.62	2,766.62	2,766.62	11.37	55.27	56.07	-7,377.16	-784.82	7,213.63	7,147.50	66.12	109.096		
2,900.00	2,854.06	2,863.06	2,863.06	11.92	57.21	56.24	-7,377.16	-784.82	7,198.52	7,129.96	68.56	104.994		
3,000.00	2,950.50	2,959.50	2,959.50	12.47	59.15	56.41	-7,377.16	-784.82	7,183.48	7,112.48	71.00	101.169		
3,100.00	3,046.93	3,055.93	3,055.93	13.03	61.09	56.58	-7,377.16	-784.82	7,168.51	7,095.05	73.45	97.595		
3,200.00	3,143.37	3,152.37	3,152.37	13.59	63.03	56.75	-7,377.16	-784.82	7,153.60	7,077.70	75.90	94.248		
3,300.00	3,239.81	3,248.81	3,248.81	14.15	64.97	56.93	-7,377.16	-784.82	7,138.76	7,060.40	78.36	91.107		
3,400.00	3,336.24	3,345.24	3,345.24	14.72	66.91	57.10	-7,377.16	-784.82	7,123.99	7,043.17	80.81	88.155		
3,500.00	3,432.68	3,441.68	3,441.68	15.28	68.85	57.27	-7,377.16	-784.82	7,109.28	7,026.01	83.27	85.375		
3,600.00	3,529.12	3,538.12	3,538.12	15.85	70.79	57.45	-7,377.16	-784.82	7,094.64	7,008.91	85.73	82.753		
3,700.00	3,625.55	3,634.55	3,634.55	16.42	72.73	57.62	-7,377.16	-784.82	7,080.07	6,991.88	88.20	80.276		
3,800.00	3,721.99	3,730.99	3,730.99	16.99	74.67	57.80	-7,377.16	-784.82	7,065.57	6,974.91	90.66	77.933		
3,900.00	3,818.43	3,827.43	3,827.43	17.56	76.61	57.98	-7,377.16	-784.82	7,051.14	6,958.01	93.13	75.712		
4,000.00	3,914.86	3,923.86	3,923.86	18.14	78.55	58.16	-7,377.16	-784.82	7,036.78	6,941.18	95.60	73.605		
4,100.00	4,011.30	4,020.30	4,020.30	18.71	80.49	58.34	-7,377.16	-784.82	7,022.49	6,924.42	98.07	71.604		
4,200.00	4,107.74	4,116.74	4,116.74	19.29	82.43	58.51	-7,377.16	-784.82	7,008.27	6,907.73	100.55	69.701		
4,300.00	4,204.17	4,213.17	4,213.17	19.86	84.37	58.69	-7,377.16	-784.82	6,994.13	6,891.10	103.02	67.888		
4,400.00	4,300.61	4,309.61	4,309.61	20.44	86.31	58.88	-7,377.16	-784.82	6,980.05	6,874.55	105.50	66.160		
4,500.00	4,397.05	4,406.05	4,406.05	21.02	88.25	59.06	-7,377.16	-784.82	6,966.05	6,858.06	107.98	64.511		
4,600.00	4,493.48	4,502.48	4,502.48	21.59	90.19	59.24	-7,377.16	-784.82	6,952.11	6,841.65	110.46	62.936		
4,700.00	4,589.92	4,601.08	4,598.92	22.17	92.17	59.42	-7,377.16	-784.82	6,938.26	6,825.27	112.99	61.406		
4,800.00	4,686.36	4,704.64	4,695.36	22.75	94.25	59.61	-7,377.16	-784.82	6,924.47	6,808.85	115.62	59.892		
4,900.00	4,782.79	4,808.21	4,791.79	23.33	96.33	59.79	-7,377.16	-784.82	6,910.76	6,792.51	118.25	58.444		
5,000.00	4,879.23	4,888.23	4,888.23	23.91	97.94	59.97	-7,377.16	-784.82	6,897.12	6,776.72	120.40	57.283		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,984.67	4,984.67	24.49	99.88	60.16	-7,377.16	-784.82	6,883.56	6,760.66	122.89	56.013		
5,200.00	5,072.10	5,081.10	5,081.10	25.07	101.82	60.35	-7,377.16	-784.82	6,870.07	6,744.69	125.38	54.793		
5,300.00	5,168.54	5,177.54	5,177.54	25.66	103.76	60.53	-7,377.16	-784.82	6,856.66	6,728.78	127.87	53.620		
5,400.00	5,264.98	5,273.98	5,273.98	26.24	105.70	60.72	-7,377.16	-784.82	6,843.32	6,712.95	130.37	52.493		
5,500.00	5,361.41	5,370.41	5,370.41	26.82	107.64	60.91	-7,377.16	-784.82	6,830.06	6,697.20	132.86	51.407		
5,600.00	5,457.85	5,466.85	5,466.85	27.40	109.58	61.10	-7,377.16	-784.82	6,816.88	6,681.52	135.36	50.362		
5,700.00	5,554.29	5,563.29	5,563.29	27.99	111.52	61.29	-7,377.16	-784.82	6,803.77	6,665.92	137.86	49.355		
5,800.00	5,650.72	5,659.72	5,659.72	28.57	113.46	61.41	-7,377.16	-784.82	6,790.83	6,651.18	139.66	48.625		
5,900.00	5,747.16	5,756.16	5,756.16	29.15	115.39	61.41	-7,377.16	-784.82	6,779.06	6,638.85	140.21	48.348		
6,000.00	5,843.60	5,852.60	5,852.60	29.74	117.32	61.41	-7,377.16	-784.82	6,768.75	6,628.01	140.75	48.092		
6,100.00	5,940.03	5,949.03	5,949.03	30.32	119.25	61.41	-7,377.16	-784.82	6,759.90	6,618.65	141.25	47.858		
6,200.00	6,036.47	6,045.47	6,045.47	30.90	121.18	61.41	-7,377.16	-784.82	6,752.52	6,610.80	141.73	47.645		
6,300.00	6,132.91	6,141.91	6,141.91	31.49	123.11	61.41	-7,377.16	-784.82	6,746.62	6,604.45	142.17	47.453		
6,400.00	6,229.34	6,238.34	6,238.34	32.07	125.04	61.41	-7,377.16	-784.82	6,742.19	6,599.60	142.59	47.283		
6,500.00	6,325.78	6,334.78	6,334.78	32.66	126.97	61.41	-7,377.16	-784.82	6,739.25	6,596.26	142.98	47.133		
6,552.14	6,376.06	6,385.06	6,385.06	32.96	127.76	61.41	-7,377.16	-784.82	6,738.30	6,595.12	143.18	47.063		
6,597.50	6,419.90	6,428.90	6,428.90	33.22	128.55	61.40	-7,377.16	-784.82	6,737.97	6,594.64	143.33	47.009		
6,600.00	6,422.32	6,431.32	6,431.32	33.24	128.57	61.40	-7,377.16	-784.82	6,737.98	6,594.63	143.34	47.006		
6,700.00	6,519.60	6,528.60	6,528.60	33.78	130.49	61.43	-7,377.16	-784.82	6,739.63	6,596.00	143.63	46.923		
6,800.00	6,617.63	6,626.63	6,626.63	34.27	132.41	61.52	-7,377.16	-784.82	6,744.44	6,600.59	143.85	46.885		
6,900.00	6,716.28	6,725.28	6,725.28	34.72	134.34	61.66	-7,377.16	-784.82	6,752.38	6,608.38	144.00	46.892		
7,000.00	6,815.45	6,824.45	6,824.45	35.13	136.27	61.85	-7,377.16	-784.82	6,763.44	6,619.37	144.07	46.945		
7,100.00	6,915.00	6,924.00	6,924.00	35.49	138.19	62.11	-7,377.16	-784.82	6,777.59	6,633.51	144.08	47.041		
7,200.00	7,014.82	7,023.82	7,023.82	35.81	140.11	62.42	-7,377.16	-784.82	6,794.79	6,650.77	144.02	47.181		
7,300.00	7,114.79	7,123.79	7,123.79	36.09	142.04	62.78	-7,377.16	-784.82	6,814.99	6,671.11	143.89	47.363		
7,319.21	7,134.00	7,143.00	7,143.00	36.14	142.76	-163.96	-7,377.16	-784.82	6,819.22	6,675.36	143.85	47.404		
7,400.00	7,214.79	7,223.79	7,223.79	36.33	144.69	-163.96	-7,377.16	-784.82	6,837.65	6,693.96	143.70	47.584		
7,419.21	7,234.00	7,243.00	7,243.00	36.37	145.41	-163.96	-7,377.16	-784.82	6,842.17	6,698.51	143.66	47.629		
7,450.00	7,264.77	7,273.77	7,273.77	36.46	146.13	16.20	-7,377.16	-784.82	6,848.74	6,705.15	143.59	47.695		
7,500.00	7,314.52	7,323.52	7,323.52	36.62	147.99	15.99	-7,377.16	-784.82	6,856.37	6,712.87	143.50	47.779		
7,550.00	7,363.66	7,372.66	7,372.66	36.81	149.85	15.88	-7,377.16	-784.82	6,860.20	6,716.78	143.42	47.834		
7,600.00	7,411.80	7,420.80	7,420.80	37.03	151.71	15.88	-7,377.16	-784.82	6,860.20	6,716.85	143.34	47.858		
7,650.00	7,458.60	7,467.60	7,467.60	37.29	153.57	15.99	-7,377.16	-784.82	6,856.37	6,713.09	143.28	47.853		
7,700.00	7,503.68	7,512.68	7,512.68	37.57	155.43	16.20	-7,377.16	-784.82	6,848.73	6,705.51	143.22	47.819		
7,750.00	7,546.72	7,555.72	7,555.72	37.89	157.29	16.53	-7,377.16	-784.82	6,837.34	6,694.16	143.18	47.755		
7,800.00	7,587.37	7,596.37	7,596.37	38.23	159.15	16.99	-7,377.16	-784.82	6,822.25	6,679.11	143.14	47.662		
7,850.00	7,625.34	7,634.34	7,634.34	38.59	161.01	17.59	-7,377.16	-784.82	6,803.56	6,660.46	143.11	47.542		
7,900.00	7,660.33	7,669.33	7,669.33	38.99	162.87	18.35	-7,377.16	-784.82	6,781.39	6,638.30	143.09	47.393		
7,950.00	7,692.07	7,701.07	7,701.07	39.40	164.73	19.31	-7,377.16	-784.82	6,755.87	6,612.79	143.08	47.219		
8,000.00	7,720.33	7,729.33	7,729.33	39.85	166.59	20.50	-7,377.16	-784.82	6,727.14	6,584.07	143.08	47.018		
8,050.00	7,744.88	7,753.88	7,753.88	40.31	168.45	21.99	-7,377.16	-784.82	6,695.41	6,552.32	143.09	46.793		
8,100.00	7,765.55	7,774.55	7,774.55	40.79	170.31	23.86	-7,377.16	-784.82	6,660.86	6,517.75	143.11	46.544		
8,150.00	7,782.18	7,791.18	7,791.18	41.30	172.17	26.21	-7,377.16	-784.82	6,623.71	6,480.56	143.14	46.273		
8,200.00	7,794.63	7,803.63	7,803.63	41.81	174.03	29.20	-7,377.16	-784.82	6,584.21	6,441.01	143.19	45.981		
8,250.00	7,802.82	7,811.82	7,811.82	42.34	175.89	33.08	-7,377.16	-784.82	6,542.62	6,399.36	143.26	45.670		
8,300.00	7,806.68	7,815.68	7,815.68	42.88	177.75	38.18	-7,377.16	-784.82	6,499.21	6,355.87	143.34	45.341		
8,319.29	7,807.00	7,816.00	7,816.00	43.09	178.56	40.57	-7,377.16	-784.82	6,482.04	6,338.66	143.38	45.209		
8,400.00	7,807.00	7,816.00	7,816.00	43.98	180.42	40.57	-7,377.16	-784.82	6,409.86	6,266.33	143.53	44.658		
8,500.00	7,807.00	7,816.00	7,816.00	45.12	182.28	40.57	-7,377.16	-784.82	6,320.72	6,176.98	143.73	43.976		
8,600.00	7,806.99	7,815.99	7,815.99	46.31	184.14	40.57	-7,377.16	-784.82	6,231.90	6,087.96	143.94	43.295		
8,700.00	7,806.99	7,815.99	7,815.99	47.53	186.00	40.57	-7,377.16	-784.82	6,143.43	5,999.27	144.15	42.617		
8,800.00	7,806.99	7,815.99	7,815.99	48.78	187.86	40.57	-7,377.16	-784.82	6,055.32	5,910.94	144.38	41.940		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	7,806.99	5,625.00	5,625.00	50.07	112.76	40.57	-7,377.16	-784.82	5,967.58	5,822.96	144.61	41.266					
9,000.00	7,806.98	5,625.00	5,625.00	51.38	112.76	40.57	-7,377.16	-784.82	5,880.23	5,735.37	144.86	40.594					
9,100.00	7,806.98	5,625.00	5,625.00	52.72	112.76	40.57	-7,377.16	-784.82	5,793.29	5,648.18	145.11	39.924					
9,200.00	7,806.98	5,625.00	5,625.00	54.09	112.76	40.57	-7,377.16	-784.82	5,706.78	5,561.41	145.37	39.257					
9,300.00	7,806.98	5,625.00	5,625.00	55.48	112.76	40.57	-7,377.16	-784.82	5,620.72	5,475.08	145.64	38.593					
9,400.00	7,806.97	5,625.00	5,625.00	56.89	112.76	40.57	-7,377.16	-784.82	5,535.13	5,389.20	145.92	37.932					
9,500.00	7,806.97	5,625.00	5,625.00	58.32	112.76	40.57	-7,377.16	-784.82	5,450.03	5,303.81	146.21	37.274					
9,600.00	7,806.97	5,625.00	5,625.00	59.77	112.76	40.57	-7,377.16	-784.82	5,365.44	5,218.92	146.52	36.620					
9,700.00	7,806.97	5,625.00	5,625.00	61.23	112.76	40.57	-7,377.16	-784.82	5,281.39	5,134.56	146.83	35.970					
9,800.00	7,806.96	5,625.00	5,625.00	62.71	112.76	40.57	-7,377.16	-784.82	5,197.90	5,050.75	147.15	35.324					
9,900.00	7,806.96	5,625.00	5,625.00	64.21	112.76	40.57	-7,377.16	-784.82	5,115.01	4,967.53	147.48	34.683					
10,000.00	7,806.96	5,625.00	5,625.00	65.72	112.76	40.57	-7,377.16	-784.82	5,032.74	4,884.91	147.82	34.046					
10,100.00	7,806.96	5,625.00	5,625.00	67.24	112.76	40.57	-7,377.16	-784.82	4,951.12	4,802.94	148.17	33.414					
10,200.00	7,806.95	5,625.00	5,625.00	68.78	112.76	40.57	-7,377.16	-784.82	4,870.19	4,721.65	148.54	32.788					
10,300.00	7,806.95	5,625.00	5,625.00	70.32	112.76	40.57	-7,377.16	-784.82	4,789.97	4,641.06	148.91	32.167					
10,400.00	7,806.95	5,625.00	5,625.00	71.88	112.76	40.57	-7,377.16	-784.82	4,710.52	4,561.23	149.29	31.553					
10,500.00	7,806.95	5,625.00	5,625.00	73.45	112.76	40.57	-7,377.16	-784.82	4,631.86	4,482.17	149.68	30.945					
10,600.00	7,806.95	5,625.00	5,625.00	75.02	112.76	40.57	-7,377.16	-784.82	4,554.03	4,403.95	150.08	30.343					
10,700.00	7,806.94	5,625.00	5,625.00	76.61	112.76	40.57	-7,377.16	-784.82	4,477.09	4,326.60	150.49	29.750					
10,800.00	7,806.94	5,625.00	5,625.00	78.20	112.76	40.57	-7,377.16	-784.82	4,401.08	4,250.17	150.91	29.164					
10,900.00	7,806.94	5,625.00	5,625.00	79.80	112.76	40.57	-7,377.16	-784.82	4,326.04	4,174.70	151.34	28.586					
11,000.00	7,806.94	5,625.00	5,625.00	81.41	112.76	40.57	-7,377.16	-784.82	4,252.03	4,100.26	151.77	28.016					
11,100.00	7,806.93	5,625.00	5,625.00	83.02	112.76	40.57	-7,377.16	-784.82	4,179.10	4,026.89	152.21	27.456					
11,200.00	7,806.93	5,625.00	5,625.00	84.64	112.76	40.57	-7,377.16	-784.82	4,107.31	3,954.66	152.66	26.906					
11,300.00	7,806.93	5,625.00	5,625.00	86.27	112.76	40.57	-7,377.16	-784.82	4,036.73	3,883.62	153.11	26.365					
11,400.00	7,806.93	5,625.00	5,625.00	87.90	112.76	40.57	-7,377.16	-784.82	3,967.40	3,813.84	153.57	25.835					
11,500.00	7,806.92	5,625.00	5,625.00	89.54	112.76	40.57	-7,377.16	-784.82	3,899.41	3,745.39	154.03	25.317					
11,600.00	7,806.92	5,625.00	5,625.00	91.18	112.76	40.57	-7,377.16	-784.82	3,832.83	3,678.34	154.49	24.810					
11,700.00	7,806.92	5,625.00	5,625.00	92.83	112.76	40.57	-7,377.16	-784.82	3,767.72	3,612.76	154.95	24.315					
11,800.00	7,806.92	5,625.00	5,625.00	94.48	112.76	40.57	-7,377.16	-784.82	3,704.16	3,548.74	155.42	23.833					
11,900.00	7,806.91	5,625.00	5,625.00	96.14	112.76	40.57	-7,377.16	-784.82	3,642.25	3,486.36	155.89	23.365					
12,000.00	7,806.91	5,625.00	5,625.00	97.80	112.76	40.57	-7,377.16	-784.82	3,582.05	3,425.70	156.35	22.910					
12,100.00	7,806.91	5,625.00	5,625.00	99.46	112.76	40.57	-7,377.16	-784.82	3,523.67	3,366.85	156.81	22.471					
12,200.00	7,806.91	5,625.00	5,625.00	101.13	112.76	40.57	-7,377.16	-784.82	3,467.18	3,309.91	157.27	22.046					
12,300.00	7,806.90	5,625.00	5,625.00	102.80	112.76	40.57	-7,377.16	-784.82	3,412.70	3,254.97	157.72	21.637					
12,400.00	7,806.90	5,625.00	5,625.00	104.47	112.76	40.57	-7,377.16	-784.82	3,360.30	3,202.13	158.17	21.244					
12,500.00	7,806.90	5,625.00	5,625.00	106.15	112.76	40.57	-7,377.16	-784.82	3,310.10	3,151.48	158.62	20.868					
12,600.00	7,806.90	5,625.00	5,625.00	107.83	112.76	40.57	-7,377.16	-784.82	3,262.19	3,103.13	159.06	20.509					
12,700.00	7,806.89	5,625.00	5,625.00	109.52	112.76	40.57	-7,377.16	-784.82	3,216.68	3,057.18	159.50	20.168					
12,800.00	7,806.89	5,625.00	5,625.00	111.20	112.76	40.57	-7,377.16	-784.82	3,173.67	3,013.74	159.93	19.844					
12,900.00	7,806.89	5,625.00	5,625.00	112.89	112.76	40.57	-7,377.16	-784.82	3,133.26	2,972.90	160.36	19.539					
13,000.00	7,806.89	5,625.00	5,625.00	114.59	112.76	40.57	-7,377.16	-784.82	3,095.55	2,934.77	160.78	19.253					
13,100.00	7,806.88	5,625.00	5,625.00	116.28	112.76	40.57	-7,377.16	-784.82	3,060.65	2,899.44	161.21	18.986					
13,200.00	7,806.88	5,625.00	5,625.00	117.98	112.76	40.57	-7,377.16	-784.82	3,028.64	2,867.00	161.64	18.737					
13,300.00	7,806.88	5,625.00	5,625.00	119.68	112.76	40.57	-7,377.16	-784.82	2,999.64	2,837.56	162.08	18.508					
13,400.00	7,806.88	5,625.00	5,625.00	121.38	112.76	40.57	-7,377.16	-784.82	2,973.71	2,811.19	162.52	18.297					
13,500.00	7,806.88	5,625.00	5,625.00	123.08	112.76	40.57	-7,377.16	-784.82	2,950.95	2,787.97	162.98	18.106					
13,600.00	7,806.87	5,625.00	5,625.00	124.79	112.76	40.57	-7,377.16	-784.82	2,931.42	2,767.97	163.45	17.934					
13,700.00	7,806.87	5,625.00	5,625.00	126.49	112.76	40.57	-7,377.16	-784.82	2,915.19	2,751.25	163.94	17.782					
13,800.00	7,806.87	5,625.00	5,625.00	128.20	112.76	40.57	-7,377.16	-784.82	2,902.32	2,737.87	164.46	17.648					
13,900.00	7,806.87	5,625.00	5,625.00	129.91	112.76	40.57	-7,377.16	-784.82	2,892.86	2,727.86	164.99	17.533					
14,000.00	7,806.86	5,625.00	5,625.00	131.62	112.76	40.57	-7,377.16	-784.82	2,886.82	2,721.27	165.55	17.438					

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - ABND VERT ASHER 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,806.86	5,625.00	5,625.00	133.34	112.76	40.57	-7,377.16	-784.82	2,884.25	2,718.11	166.13	17.361		
14,124.34	7,806.86	5,625.00	5,625.00	133.76	112.76	40.57	-7,377.16	-784.82	2,884.14	2,717.87	166.28	17.345 CC, ES		
14,200.00	7,806.86	5,625.00	5,625.00	135.05	112.76	40.57	-7,377.16	-784.82	2,885.14	2,718.40	166.74	17.303		
14,300.00	7,806.86	5,625.00	5,625.00	136.77	112.76	40.57	-7,377.16	-784.82	2,889.49	2,722.13	167.36	17.265		
14,400.00	7,806.85	5,625.00	5,625.00	138.49	112.76	40.57	-7,377.16	-784.82	2,897.29	2,729.29	168.00	17.245		
14,500.00	7,806.85	5,625.00	5,625.00	140.21	112.76	40.57	-7,377.16	-784.82	2,908.51	2,739.85	168.65	17.245 SF		
14,600.00	7,806.85	5,625.00	5,625.00	141.93	112.76	40.57	-7,377.16	-784.82	2,923.11	2,753.79	169.31	17.265		
14,700.00	7,806.85	5,625.00	5,625.00	143.65	112.76	40.57	-7,377.16	-784.82	2,941.03	2,771.07	169.97	17.303		
14,800.00	7,806.84	5,625.00	5,625.00	145.37	112.76	40.57	-7,377.16	-784.82	2,962.23	2,791.61	170.62	17.362		
14,900.00	7,806.84	5,625.00	5,625.00	147.10	112.76	40.57	-7,377.16	-784.82	2,986.63	2,815.37	171.25	17.440		
15,000.00	7,806.84	5,625.00	5,625.00	148.83	112.76	40.57	-7,377.16	-784.82	3,014.15	2,842.27	171.87	17.537		
15,100.00	7,806.84	5,625.00	5,625.00	150.55	112.76	40.57	-7,377.16	-784.82	3,044.70	2,872.24	172.47	17.654		
15,200.00	7,806.83	5,625.00	5,625.00	152.28	112.76	40.57	-7,377.16	-784.82	3,078.20	2,905.17	173.03	17.790		
15,300.00	7,806.83	5,625.00	5,625.00	154.01	112.76	40.57	-7,377.16	-784.82	3,114.56	2,941.00	173.56	17.945		
15,400.00	7,806.83	5,625.00	5,625.00	155.74	112.76	40.57	-7,377.16	-784.82	3,153.67	2,979.61	174.05	18.119		
15,500.00	7,806.83	5,625.00	5,625.00	157.47	112.76	40.57	-7,377.16	-784.82	3,195.43	3,020.92	174.51	18.311		
15,600.00	7,806.82	5,625.00	5,625.00	159.20	112.76	40.57	-7,377.16	-784.82	3,239.73	3,064.81	174.92	18.521		
15,700.00	7,806.82	5,625.00	5,625.00	160.93	112.76	40.57	-7,377.16	-784.82	3,286.49	3,111.20	175.29	18.749		
15,800.00	7,806.82	5,625.00	5,625.00	162.67	112.76	40.57	-7,377.16	-784.82	3,335.59	3,159.97	175.62	18.993		
15,900.00	7,806.82	5,625.00	5,625.00	164.40	112.76	40.57	-7,377.16	-784.82	3,386.93	3,211.02	175.91	19.254		
16,000.00	7,806.81	5,625.00	5,625.00	166.14	112.76	40.57	-7,377.16	-784.82	3,440.41	3,264.26	176.15	19.531		
16,100.00	7,806.81	5,625.00	5,625.00	167.87	112.76	40.57	-7,377.16	-784.82	3,495.93	3,319.58	176.35	19.823		
16,200.00	7,806.81	5,625.00	5,625.00	169.61	112.76	40.57	-7,377.16	-784.82	3,553.40	3,376.88	176.52	20.130		
16,300.00	7,806.81	5,625.00	5,625.00	171.35	112.76	40.57	-7,377.16	-784.82	3,612.73	3,436.08	176.65	20.451		
16,400.00	7,806.81	5,625.00	5,625.00	173.09	112.76	40.57	-7,377.16	-784.82	3,673.82	3,497.07	176.75	20.786		
16,500.00	7,806.80	5,625.00	5,625.00	174.83	112.76	40.57	-7,377.16	-784.82	3,736.59	3,559.78	176.81	21.133		
16,600.00	7,806.80	5,625.00	5,625.00	176.57	112.76	40.57	-7,377.16	-784.82	3,800.95	3,624.10	176.84	21.493		
16,700.00	7,806.80	5,625.00	5,625.00	178.31	112.76	40.57	-7,377.16	-784.82	3,866.83	3,689.98	176.85	21.865		
16,800.00	7,806.80	5,625.00	5,625.00	180.05	112.76	40.57	-7,377.16	-784.82	3,934.14	3,757.31	176.83	22.248		
16,900.00	7,806.79	5,625.00	5,625.00	181.79	112.76	40.57	-7,377.16	-784.82	4,002.82	3,826.04	176.79	22.642		
17,000.00	7,806.79	5,625.00	5,625.00	183.53	112.76	40.57	-7,377.16	-784.82	4,072.80	3,896.08	176.72	23.046		
17,100.00	7,806.79	5,625.00	5,625.00	185.27	112.76	40.57	-7,377.16	-784.82	4,144.02	3,967.37	176.64	23.460		
17,200.00	7,806.79	5,625.00	5,625.00	187.02	112.76	40.57	-7,377.16	-784.82	4,216.40	4,039.85	176.54	23.883		
17,300.00	7,806.78	5,625.00	5,625.00	188.76	112.76	40.57	-7,377.16	-784.82	4,289.89	4,113.46	176.43	24.315		
17,400.00	7,806.78	5,625.00	5,625.00	190.51	112.76	40.57	-7,377.16	-784.82	4,364.43	4,188.13	176.30	24.756		
17,500.00	7,806.78	5,625.00	5,625.00	192.25	112.76	40.57	-7,377.16	-784.82	4,439.98	4,263.82	176.16	25.204		
17,600.00	7,806.78	5,625.00	5,625.00	194.00	112.76	40.57	-7,377.16	-784.82	4,516.47	4,340.46	176.01	25.660		
17,700.00	7,806.77	5,625.00	5,625.00	195.74	112.76	40.57	-7,377.16	-784.82	4,593.87	4,418.02	175.85	26.123		
17,800.00	7,806.77	5,625.00	5,625.00	197.49	112.76	40.57	-7,377.16	-784.82	4,672.13	4,496.44	175.69	26.593		
17,900.00	7,806.77	5,625.00	5,625.00	199.24	112.76	40.57	-7,377.16	-784.82	4,751.20	4,575.69	175.52	27.070		
17,973.82	7,807.00	5,625.00	5,625.00	200.53	112.76	40.56	-7,377.16	-784.82	4,810.12	4,634.74	175.38	27.427		
17,974.53	7,807.00	5,625.00	5,625.00	200.55	112.76	40.56	-7,377.16	-784.82	4,810.69	4,634.96	175.72	27.376		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	165.17	-8,175.20	2,163.97	8,456.92					
100.00	100.00	47.00	47.00	0.13	0.56	165.17	-8,175.20	2,163.97	8,456.76	8,456.06	0.70	N/A		
200.00	200.00	147.00	147.00	0.49	2.27	165.17	-8,175.20	2,163.97	8,456.76	8,453.99	2.77	3,056.008		
300.00	300.00	247.00	247.00	0.85	4.46	165.17	-8,175.20	2,163.97	8,456.76	8,451.44	5.32	1,590.796		
400.00	400.00	347.00	347.00	1.21	6.53	165.17	-8,175.20	2,163.97	8,456.76	8,449.02	7.74	1,093.188		
500.00	500.00	447.00	447.00	1.57	8.56	165.17	-8,175.20	2,163.97	8,456.76	8,446.63	10.13	834.794		
600.00	600.00	547.00	547.00	1.93	10.59	165.17	-8,175.20	2,163.97	8,456.76	8,444.24	12.51	675.734		
700.00	700.00	647.00	647.00	2.29	12.61	165.17	-8,175.20	2,163.97	8,456.76	8,441.86	14.89	567.776		
800.00	800.00	747.00	747.00	2.64	14.63	165.17	-8,175.20	2,163.97	8,456.76	8,439.49	17.27	489.643		
900.00	900.00	847.00	847.00	3.00	16.64	165.17	-8,175.20	2,163.97	8,456.76	8,437.11	19.65	430.452		
1,000.00	1,000.00	947.00	947.00	3.36	18.66	165.17	-8,175.20	2,163.97	8,456.76	8,434.74	22.02	384.049		
1,100.00	1,100.00	1,047.00	1,047.00	3.72	20.67	165.17	-8,175.20	2,163.97	8,456.76	8,432.36	24.39	346.690		
1,200.00	1,199.98	1,146.98	1,146.98	4.06	22.69	32.01	-8,175.20	2,163.97	8,455.28	8,428.53	26.75	316.082		
1,300.00	1,299.84	1,246.84	1,246.84	4.40	24.70	32.08	-8,175.20	2,163.97	8,450.84	8,421.74	29.10	290.456		
1,400.00	1,399.45	1,346.45	1,346.45	4.74	26.70	32.19	-8,175.20	2,163.97	8,443.45	8,412.01	31.44	268.556		
1,500.00	1,498.70	1,445.70	1,445.70	5.09	28.70	32.34	-8,175.20	2,163.97	8,433.12	8,399.34	33.78	249.624		
1,600.00	1,597.47	1,544.47	1,544.47	5.46	30.69	32.54	-8,175.20	2,163.97	8,419.88	8,383.75	36.12	233.089		
1,700.00	1,695.62	1,642.62	1,642.62	5.85	32.66	32.79	-8,175.20	2,163.97	8,403.73	8,365.27	38.46	218.516		
1,800.00	1,793.06	1,740.06	1,740.06	6.27	34.62	33.08	-8,175.20	2,163.97	8,384.70	8,343.92	40.79	205.569		
1,867.07	1,857.94	1,804.94	1,804.94	6.57	35.93	33.31	-8,175.20	2,163.97	8,370.35	8,328.00	42.35	197.657		
1,900.00	1,889.69	1,836.69	1,836.69	6.72	36.57	33.34	-8,175.20	2,163.97	8,362.99	8,319.88	43.11	193.977		
2,000.00	1,986.13	1,933.13	1,933.13	7.19	38.51	33.44	-8,175.20	2,163.97	8,340.66	8,295.22	45.44	183.559		
2,100.00	2,082.57	2,029.57	2,029.57	7.68	40.45	33.54	-8,175.20	2,163.97	8,318.36	8,270.59	47.77	174.125		
2,200.00	2,179.00	2,126.00	2,126.00	8.18	42.39	33.64	-8,175.20	2,163.97	8,296.08	8,245.97	50.11	165.548		
2,300.00	2,275.44	2,222.44	2,222.44	8.69	44.33	33.74	-8,175.20	2,163.97	8,273.82	8,221.36	52.46	157.717		
2,400.00	2,371.88	2,318.88	2,318.88	9.21	46.27	33.84	-8,175.20	2,163.97	8,251.59	8,196.78	54.81	150.543		
2,500.00	2,468.31	2,415.31	2,415.31	9.74	48.21	33.94	-8,175.20	2,163.97	8,229.39	8,172.22	57.17	143.948		
2,600.00	2,564.75	2,511.75	2,511.75	10.28	50.15	34.04	-8,175.20	2,163.97	8,207.21	8,147.67	59.53	137.865		
2,700.00	2,661.19	2,608.19	2,608.19	10.82	52.09	34.14	-8,175.20	2,163.97	8,185.05	8,123.15	61.90	132.239		
2,800.00	2,757.62	2,704.62	2,704.62	11.37	54.03	34.25	-8,175.20	2,163.97	8,162.92	8,098.66	64.26	127.021		
2,900.00	2,854.06	2,801.06	2,801.06	11.92	55.97	34.35	-8,175.20	2,163.97	8,140.82	8,074.18	66.64	122.169		
3,000.00	2,950.50	2,902.50	2,902.50	12.47	58.01	34.45	-8,175.20	2,163.97	8,118.74	8,049.63	69.11	117.474		
3,100.00	3,046.93	3,006.07	2,993.93	13.03	60.09	34.56	-8,175.20	2,163.97	8,096.69	8,025.06	71.63	113.032		
3,200.00	3,143.37	3,109.63	3,090.37	13.59	62.17	34.66	-8,175.20	2,163.97	8,074.66	8,000.51	74.15	108.890		
3,300.00	3,239.81	3,186.81	3,186.81	14.15	63.73	34.77	-8,175.20	2,163.97	8,052.66	7,976.52	76.15	105.749		
3,400.00	3,336.24	3,283.24	3,283.24	14.72	65.67	34.88	-8,175.20	2,163.97	8,030.69	7,952.16	78.53	102.259		
3,500.00	3,432.68	3,379.68	3,379.68	15.28	67.60	34.98	-8,175.20	2,163.97	8,008.75	7,927.83	80.92	98.973		
3,600.00	3,529.12	3,476.12	3,476.12	15.85	69.54	35.09	-8,175.20	2,163.97	7,986.83	7,903.53	83.31	95.873		
3,700.00	3,625.55	3,572.55	3,572.55	16.42	71.48	35.20	-8,175.20	2,163.97	7,964.94	7,879.25	85.70	92.944		
3,800.00	3,721.99	3,668.99	3,668.99	16.99	73.42	35.31	-8,175.20	2,163.97	7,943.08	7,854.99	88.09	90.173		
3,900.00	3,818.43	3,765.43	3,765.43	17.56	75.36	35.42	-8,175.20	2,163.97	7,921.25	7,830.77	90.48	87.547		
4,000.00	3,914.86	3,861.86	3,861.86	18.14	77.30	35.53	-8,175.20	2,163.97	7,899.44	7,806.57	92.87	85.055		
4,100.00	4,011.30	3,958.30	3,958.30	18.71	79.24	35.64	-8,175.20	2,163.97	7,877.67	7,782.40	95.27	82.688		
4,200.00	4,107.74	4,054.74	4,054.74	19.29	81.18	35.75	-8,175.20	2,163.97	7,855.92	7,758.25	97.67	80.435		
4,300.00	4,204.17	4,151.17	4,151.17	19.86	83.12	35.86	-8,175.20	2,163.97	7,834.20	7,734.13	100.07	78.290		
4,400.00	4,300.61	4,247.61	4,247.61	20.44	85.06	35.97	-8,175.20	2,163.97	7,812.51	7,710.04	102.47	76.245		
4,500.00	4,397.05	4,344.05	4,344.05	21.02	87.00	36.08	-8,175.20	2,163.97	7,790.85	7,685.98	104.87	74.292		
4,600.00	4,493.48	4,440.48	4,440.48	21.59	88.94	36.20	-8,175.20	2,163.97	7,769.22	7,661.95	107.27	72.426		
4,700.00	4,589.92	4,536.92	4,536.92	22.17	90.88	36.31	-8,175.20	2,163.97	7,747.62	7,637.94	109.67	70.642		
4,800.00	4,686.36	4,633.36	4,633.36	22.75	92.82	36.43	-8,175.20	2,163.97	7,726.05	7,613.97	112.08	68.933		
4,900.00	4,782.79	4,729.79	4,729.79	23.33	94.76	36.54	-8,175.20	2,163.97	7,704.51	7,590.02	114.49	67.296		
5,000.00	4,879.23	4,826.23	4,826.23	23.91	96.70	36.66	-8,175.20	2,163.97	7,683.00	7,566.10	116.89	65.726		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,922.67	4,922.67	24.49	98.64	36.78	-8,175.20	2,163.97	7,661.52	7,542.22	119.30	64.219		
5,200.00	5,072.10	5,019.10	5,019.10	25.07	100.58	36.89	-8,175.20	2,163.97	7,640.07	7,518.36	121.71	62.771		
5,300.00	5,168.54	5,115.54	5,115.54	25.66	102.52	37.01	-8,175.20	2,163.97	7,618.66	7,494.53	124.13	61.379		
5,400.00	5,264.98	5,211.98	5,211.98	26.24	104.45	37.13	-8,175.20	2,163.97	7,597.27	7,470.73	126.54	60.040		
5,500.00	5,361.41	5,308.41	5,308.41	26.82	106.39	37.25	-8,175.20	2,163.97	7,575.92	7,446.97	128.95	58.750		
5,600.00	5,457.85	5,404.85	5,404.85	27.40	108.33	37.37	-8,175.20	2,163.97	7,554.60	7,423.23	131.37	57.508		
5,700.00	5,554.29	5,501.29	5,501.29	27.99	110.27	37.49	-8,175.20	2,163.97	7,533.31	7,399.53	133.78	56.310		
5,800.00	5,650.72	5,602.28	5,602.28	28.57	112.30	37.61	-8,175.20	2,163.97	7,512.06	7,375.77	136.29	55.118		
5,900.00	5,747.16	5,705.84	5,705.84	29.15	114.39	37.73	-8,175.20	2,163.97	7,490.84	7,351.99	138.85	53.948		
6,000.00	5,843.60	5,809.40	5,809.40	29.74	116.47	37.85	-8,175.20	2,163.97	7,469.65	7,328.24	141.42	52.820		
6,100.00	5,940.03	5,887.03	5,887.03	30.32	118.03	37.98	-8,175.20	2,163.97	7,448.50	7,305.04	143.46	51.921		
6,200.00	6,036.47	5,983.47	5,983.47	30.90	119.97	38.10	-8,175.20	2,163.97	7,427.38	7,281.50	145.88	50.914		
6,300.00	6,132.91	6,079.91	6,079.91	31.49	121.91	38.23	-8,175.20	2,163.97	7,406.29	7,257.99	148.30	49.940		
6,400.00	6,229.34	6,176.34	6,176.34	32.07	123.85	38.35	-8,175.20	2,163.97	7,385.24	7,234.51	150.73	48.997		
6,500.00	6,325.78	6,272.78	6,272.78	32.66	125.79	38.48	-8,175.20	2,163.97	7,364.23	7,211.07	153.15	48.084		
6,552.14	6,376.06	6,323.06	6,323.06	32.96	126.80	38.54	-8,175.20	2,163.97	7,353.28	7,198.86	154.42	47.619		
6,600.00	6,422.32	6,369.32	6,369.32	33.24	127.73	38.48	-8,175.20	2,163.97	7,343.55	7,187.97	155.58	47.202		
6,700.00	6,519.60	6,466.60	6,466.60	33.78	129.69	38.36	-8,175.20	2,163.97	7,325.22	7,167.23	158.00	46.363		
6,800.00	6,617.63	6,564.63	6,564.63	34.27	131.66	38.26	-8,175.20	2,163.97	7,309.62	7,149.21	160.41	45.570		
6,900.00	6,716.28	6,663.28	6,663.28	34.72	133.64	38.17	-8,175.20	2,163.97	7,296.74	7,133.94	162.80	44.820		
7,000.00	6,815.45	6,762.45	6,762.45	35.13	135.64	38.11	-8,175.20	2,163.97	7,286.60	7,121.42	165.18	44.113		
7,100.00	6,915.00	6,862.00	6,862.00	35.49	137.64	38.07	-8,175.20	2,163.97	7,279.20	7,111.66	167.54	43.448		
7,200.00	7,014.82	6,961.82	6,961.82	35.81	139.64	38.04	-8,175.20	2,163.97	7,274.55	7,104.67	169.88	42.822		
7,300.00	7,114.79	7,061.79	7,061.79	36.09	141.65	38.02	-8,175.20	2,163.97	7,272.65	7,100.45	172.19	42.235		
7,319.21	7,134.00	7,081.00	7,081.00	36.14	142.04	171.21	-8,175.20	2,163.97	7,272.60	7,099.96	172.63	42.127		
7,400.00	7,214.79	7,161.79	7,161.79	36.33	143.67	171.21	-8,175.20	2,163.97	7,272.60	7,098.11	174.48	41.681		
7,419.21	7,234.00	7,181.00	7,181.00	36.37	144.05	171.21	-8,175.20	2,163.97	7,272.60	7,097.68	174.92	41.576		
7,450.00	7,264.77	7,211.77	7,211.77	36.46	144.67	-8.46	-8,175.20	2,163.97	7,271.78	7,096.15	175.63	41.405		
7,500.00	7,314.52	7,261.52	7,261.52	36.62	145.67	-8.54	-8,175.20	2,163.97	7,266.97	7,090.20	176.77	41.109		
7,550.00	7,363.66	7,310.66	7,310.66	36.81	146.66	-8.69	-8,175.20	2,163.97	7,257.90	7,079.99	177.91	40.796		
7,600.00	7,411.80	7,358.80	7,358.80	37.03	147.63	-8.91	-8,175.20	2,163.97	7,244.62	7,065.60	179.02	40.468		
7,650.00	7,458.60	7,405.60	7,405.60	37.29	148.57	-9.23	-8,175.20	2,163.97	7,227.24	7,047.14	180.11	40.127		
7,700.00	7,503.68	7,450.68	7,450.68	37.57	149.48	-9.64	-8,175.20	2,163.97	7,205.90	7,024.75	181.15	39.778		
7,750.00	7,546.72	7,506.28	7,493.72	37.89	150.59	-10.18	-8,175.20	2,163.97	7,180.76	6,998.36	182.40	39.368		
7,800.00	7,587.37	7,534.37	7,534.37	38.23	151.16	-10.86	-8,175.20	2,163.97	7,152.00	6,968.92	183.09	39.063		
7,850.00	7,625.34	7,572.34	7,572.34	38.59	151.92	-11.74	-8,175.20	2,163.97	7,119.86	6,935.90	183.96	38.704		
7,900.00	7,660.33	7,607.33	7,607.33	38.99	152.63	-12.86	-8,175.20	2,163.97	7,084.57	6,899.81	184.76	38.346		
7,950.00	7,692.07	7,639.07	7,639.07	39.40	153.26	-14.32	-8,175.20	2,163.97	7,046.40	6,860.93	185.47	37.992		
8,000.00	7,720.33	7,667.33	7,667.33	39.85	153.83	-16.26	-8,175.20	2,163.97	7,005.65	6,819.55	186.10	37.644		
8,050.00	7,744.88	7,708.12	7,691.88	40.31	154.65	-18.92	-8,175.20	2,163.97	6,962.62	6,775.66	186.96	37.241		
8,100.00	7,765.55	7,712.55	7,712.55	40.79	154.74	-22.71	-8,175.20	2,163.97	6,917.66	6,730.58	187.08	36.978		
8,150.00	7,782.18	7,729.18	7,729.18	41.30	155.08	-28.39	-8,175.20	2,163.97	6,871.09	6,683.67	187.41	36.663		
8,200.00	7,794.63	7,741.63	7,741.63	41.81	155.33	-37.49	-8,175.20	2,163.97	6,823.27	6,635.62	187.65	36.362		
8,250.00	7,802.82	7,749.82	7,749.82	42.34	155.49	-52.93	-8,175.20	2,163.97	6,774.58	6,586.79	187.78	36.076		
8,300.00	7,806.68	7,753.68	7,753.68	42.88	155.57	-78.19	-8,175.20	2,163.97	6,725.37	6,537.55	187.81	35.809		
8,319.29	7,807.00	7,754.00	7,754.00	43.09	155.58	-90.01	-8,175.20	2,163.97	6,706.33	6,518.53	187.80	35.710		
8,400.00	7,807.00	7,754.00	7,754.00	43.98	155.58	-90.01	-8,175.20	2,163.97	6,626.66	6,438.96	187.70	35.305		
8,500.00	7,807.00	7,754.00	7,754.00	45.12	155.58	-90.01	-8,175.20	2,163.97	6,527.99	6,340.41	187.58	34.802		
8,600.00	7,806.99	7,753.99	7,753.99	46.31	155.57	-90.01	-8,175.20	2,163.97	6,429.36	6,241.90	187.46	34.298		
8,700.00	7,806.99	7,753.99	7,753.99	47.53	155.57	-90.01	-8,175.20	2,163.97	6,330.77	6,143.43	187.33	33.794		
8,800.00	7,806.99	7,753.99	7,753.99	48.78	155.57	-90.01	-8,175.20	2,163.97	6,232.23	6,045.01	187.21	33.289		
8,900.00	7,806.99	7,753.99	7,753.99	50.07	155.57	-90.01	-8,175.20	2,163.97	6,133.73	5,946.63	187.10	32.784		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,753.98	7,753.98	51.38	155.57	-90.01	-8,175.20	2,163.97	6,035.28	5,848.30	186.98	32.278		
9,100.00	7,806.98	7,753.98	7,753.98	52.72	155.57	-90.01	-8,175.20	2,163.97	5,936.89	5,750.03	186.86	31.772		
9,200.00	7,806.98	7,753.98	7,753.98	54.09	155.57	-90.01	-8,175.20	2,163.97	5,838.55	5,651.80	186.75	31.264		
9,300.00	7,806.98	7,753.98	7,753.98	55.48	155.57	-90.01	-8,175.20	2,163.97	5,740.26	5,553.63	186.64	30.756		
9,400.00	7,806.97	7,753.97	7,753.97	56.89	155.57	-90.01	-8,175.20	2,163.97	5,642.04	5,455.51	186.53	30.247		
9,500.00	7,806.97	7,753.97	7,753.97	58.32	155.57	-90.01	-8,175.20	2,163.97	5,543.88	5,357.46	186.43	29.738		
9,600.00	7,806.97	7,753.97	7,753.97	59.77	155.57	-90.01	-8,175.20	2,163.97	5,445.79	5,259.46	186.33	29.227		
9,700.00	7,806.97	7,753.97	7,753.97	61.23	155.57	-90.01	-8,175.20	2,163.97	5,347.77	5,161.53	186.23	28.715		
9,800.00	7,806.96	7,753.96	7,753.96	62.71	155.57	-90.01	-8,175.20	2,163.97	5,249.82	5,063.68	186.15	28.203		
9,900.00	7,806.96	7,753.96	7,753.96	64.21	155.57	-90.01	-8,175.20	2,163.97	5,151.95	4,965.89	186.07	27.689		
10,000.00	7,806.96	7,753.96	7,753.96	65.72	155.57	-90.01	-8,175.20	2,163.97	5,054.17	4,868.18	185.99	27.174		
10,100.00	7,806.96	7,753.96	7,753.96	67.24	155.57	-90.01	-8,175.20	2,163.97	4,956.47	4,770.54	185.93	26.657		
10,200.00	7,806.95	7,753.95	7,753.95	68.78	155.57	-90.01	-8,175.20	2,163.97	4,858.87	4,672.99	185.88	26.140		
10,300.00	7,806.95	7,753.95	7,753.95	70.32	155.57	-90.01	-8,175.20	2,163.97	4,761.37	4,575.53	185.84	25.621		
10,400.00	7,806.95	7,753.95	7,753.95	71.88	155.57	-90.01	-8,175.20	2,163.97	4,663.97	4,478.16	185.82	25.100		
10,500.00	7,806.95	7,753.95	7,753.95	73.45	155.57	-90.01	-8,175.20	2,163.97	4,566.69	4,380.88	185.81	24.578		
10,600.00	7,806.95	7,753.95	7,753.95	75.02	155.57	-90.01	-8,175.20	2,163.97	4,469.52	4,283.71	185.82	24.054		
10,700.00	7,806.94	7,753.94	7,753.94	76.61	155.57	-90.01	-8,175.20	2,163.97	4,372.49	4,186.64	185.85	23.528		
10,800.00	7,806.94	7,753.94	7,753.94	78.20	155.57	-90.01	-8,175.20	2,163.97	4,275.59	4,089.69	185.90	23.000		
10,900.00	7,806.94	7,753.94	7,753.94	79.80	155.57	-90.01	-8,175.20	2,163.97	4,178.83	3,992.85	185.98	22.469		
11,000.00	7,806.94	7,753.94	7,753.94	81.41	155.57	-90.01	-8,175.20	2,163.97	4,082.23	3,896.15	186.09	21.937		
11,100.00	7,806.93	7,753.93	7,753.93	83.02	155.57	-90.00	-8,175.20	2,163.97	3,985.81	3,799.57	186.23	21.402		
11,200.00	7,806.93	7,753.93	7,753.93	84.64	155.57	-90.00	-8,175.20	2,163.97	3,889.56	3,703.14	186.41	20.865		
11,300.00	7,806.93	7,753.93	7,753.93	86.27	155.57	-90.00	-8,175.20	2,163.97	3,793.50	3,606.86	186.64	20.325		
11,400.00	7,806.93	7,753.93	7,753.93	87.90	155.57	-90.00	-8,175.20	2,163.97	3,697.65	3,510.74	186.91	19.783		
11,500.00	7,806.92	7,753.92	7,753.92	89.54	155.57	-90.00	-8,175.20	2,163.97	3,602.03	3,414.79	187.24	19.238		
11,600.00	7,806.92	7,753.92	7,753.92	91.18	155.57	-90.00	-8,175.20	2,163.97	3,506.66	3,319.03	187.62	18.690		
11,700.00	7,806.92	7,753.92	7,753.92	92.83	155.57	-90.00	-8,175.20	2,163.97	3,411.55	3,223.47	188.08	18.139		
11,800.00	7,806.92	7,753.92	7,753.92	94.48	155.57	-90.00	-8,175.20	2,163.97	3,316.72	3,128.12	188.61	17.586		
11,900.00	7,806.91	7,753.91	7,753.91	96.14	155.57	-90.00	-8,175.20	2,163.97	3,222.21	3,033.00	189.21	17.029		
12,000.00	7,806.91	7,753.91	7,753.91	97.80	155.57	-90.00	-8,175.20	2,163.97	3,128.04	2,938.13	189.92	16.471		
12,100.00	7,806.91	7,753.91	7,753.91	99.46	155.57	-90.00	-8,175.20	2,163.97	3,034.25	2,843.53	190.72	15.910		
12,200.00	7,806.91	7,753.91	7,753.91	101.13	155.57	-90.00	-8,175.20	2,163.97	2,940.86	2,749.23	191.63	15.346		
12,300.00	7,806.90	7,753.90	7,753.90	102.80	155.57	-90.00	-8,175.20	2,163.97	2,847.92	2,655.25	192.67	14.782		
12,400.00	7,806.90	7,753.90	7,753.90	104.47	155.57	-90.00	-8,175.20	2,163.97	2,755.48	2,561.64	193.84	14.215		
12,500.00	7,806.90	7,753.90	7,753.90	106.15	155.57	-90.00	-8,175.20	2,163.97	2,663.58	2,468.42	195.16	13.648		
12,600.00	7,806.90	7,753.90	7,753.90	107.83	155.57	-90.00	-8,175.20	2,163.97	2,572.28	2,375.64	196.64	13.081		
12,700.00	7,806.89	7,753.89	7,753.89	109.52	155.57	-90.00	-8,175.20	2,163.97	2,481.66	2,283.36	198.30	12.515		
12,800.00	7,806.89	7,753.89	7,753.89	111.20	155.57	-90.00	-8,175.20	2,163.97	2,391.79	2,191.63	200.16	11.950		
12,900.00	7,806.89	7,753.89	7,753.89	112.89	155.57	-90.00	-8,175.20	2,163.97	2,302.75	2,100.52	202.22	11.387		
13,000.00	7,806.89	7,753.89	7,753.89	114.59	155.57	-90.00	-8,175.20	2,163.97	2,214.64	2,010.12	204.53	10.828		
13,100.00	7,806.88	7,753.88	7,753.88	116.28	155.57	-90.00	-8,175.20	2,163.97	2,127.59	1,920.51	207.08	10.274		
13,200.00	7,806.88	7,753.88	7,753.88	117.98	155.57	-90.00	-8,175.20	2,163.97	2,041.73	1,831.82	209.91	9.727		
13,300.00	7,806.88	7,753.88	7,753.88	119.68	155.57	-90.00	-8,175.20	2,163.97	1,957.21	1,744.17	213.04	9.187		
13,400.00	7,806.88	7,753.88	7,753.88	121.38	155.57	-90.00	-8,175.20	2,163.97	1,874.21	1,657.72	216.49	8.657		
13,500.00	7,806.88	7,753.88	7,753.88	123.08	155.57	-90.00	-8,175.20	2,163.97	1,792.95	1,572.66	220.29	8.139		
13,600.00	7,806.87	7,753.87	7,753.87	124.79	155.57	-90.00	-8,175.20	2,163.97	1,713.67	1,489.21	224.46	7.635		
13,700.00	7,806.87	7,753.87	7,753.87	126.49	155.57	-90.00	-8,175.20	2,163.97	1,636.66	1,407.63	229.03	7.146		
13,800.00	7,806.87	7,753.87	7,753.87	128.20	155.57	-90.00	-8,175.20	2,163.97	1,562.26	1,328.25	234.00	6.676		
13,900.00	7,806.87	7,753.87	7,753.87	129.91	155.57	-90.00	-8,175.20	2,163.97	1,490.86	1,251.46	239.40	6.227		
14,000.00	7,806.86	7,753.86	7,753.86	131.62	155.57	-90.00	-8,175.20	2,163.97	1,422.90	1,177.69	245.21	5.803		
14,100.00	7,806.86	7,753.86	7,753.86	133.34	155.57	-90.00	-8,175.20	2,163.97	1,358.92	1,107.50	251.42	5.405		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	7,806.86	7,753.86	7,753.86	135.05	155.57	-90.00	-8,175.20	2,163.97	1,299.48	1,041.52	257.96	5.038	
14,300.00	7,806.86	7,753.86	7,753.86	136.77	155.57	-90.00	-8,175.20	2,163.97	1,245.25	980.49	264.76	4.703	
14,400.00	7,806.85	7,753.85	7,753.85	138.49	155.57	-90.00	-8,175.20	2,163.97	1,196.94	925.25	271.69	4.406	
14,500.00	7,806.85	7,753.85	7,753.85	140.21	155.57	-90.00	-8,175.20	2,163.97	1,155.27	876.70	278.57	4.147	
14,600.00	7,806.85	7,753.85	7,753.85	141.93	155.57	-90.00	-8,175.20	2,163.97	1,121.01	835.82	285.19	3.931	
14,700.00	7,806.85	7,753.85	7,753.85	143.65	155.57	-90.00	-8,175.20	2,163.97	1,094.83	803.53	291.30	3.758	
14,800.00	7,806.84	7,753.84	7,753.84	145.37	155.57	-90.00	-8,175.20	2,163.97	1,077.34	780.71	296.63	3.632	
14,900.00	7,806.84	7,753.84	7,753.84	147.10	155.57	-90.00	-8,175.20	2,163.97	1,068.95	767.99	300.97	3.552	
14,940.00	7,806.84	7,753.84	7,753.84	147.79	155.57	-90.00	-8,175.20	2,163.97	1,068.20	765.83	302.38	3.533 CC	
15,000.00	7,806.84	7,753.84	7,753.84	148.83	155.57	-90.00	-8,175.20	2,163.97	1,069.89	765.76	304.13	3.518 ES, SF	
15,100.00	7,806.84	7,753.84	7,753.84	150.55	155.57	-90.00	-8,175.20	2,163.97	1,080.12	774.07	306.05	3.529	
15,200.00	7,806.83	7,753.83	7,753.83	152.28	155.57	-90.00	-8,175.20	2,163.97	1,099.39	792.66	306.74	3.584	
15,300.00	7,806.83	7,753.83	7,753.83	154.01	155.57	-90.00	-8,175.20	2,163.97	1,127.24	820.94	306.30	3.680	
15,400.00	7,806.83	7,753.83	7,753.83	155.74	155.57	-90.00	-8,175.20	2,163.97	1,163.04	858.13	304.91	3.814	
15,500.00	7,806.83	7,753.83	7,753.83	157.47	155.57	-90.00	-8,175.20	2,163.97	1,206.09	903.34	302.75	3.984	
15,600.00	7,806.82	7,753.82	7,753.82	159.20	155.57	-90.00	-8,175.20	2,163.97	1,255.65	955.62	300.04	4.185	
15,700.00	7,806.82	7,753.82	7,753.82	160.93	155.57	-90.00	-8,175.20	2,163.97	1,310.98	1,014.04	296.94	4.415	
15,800.00	7,806.82	7,753.82	7,753.82	162.67	155.57	-90.00	-8,175.20	2,163.97	1,371.37	1,077.75	293.62	4.671	
15,900.00	7,806.82	7,753.82	7,753.82	164.40	155.57	-90.00	-8,175.20	2,163.97	1,436.20	1,146.00	290.19	4.949	
16,000.00	7,806.81	7,753.81	7,753.81	166.14	155.57	-90.00	-8,175.20	2,163.97	1,504.88	1,218.12	286.76	5.248	
16,100.00	7,806.81	7,753.81	7,753.81	167.87	155.57	-90.00	-8,175.20	2,163.97	1,576.92	1,293.54	283.37	5.565	
16,200.00	7,806.81	7,753.81	7,753.81	169.61	155.57	-90.00	-8,175.20	2,163.97	1,651.87	1,371.78	280.09	5.898	
16,300.00	7,806.81	7,753.81	7,753.81	171.35	155.57	-90.00	-8,175.20	2,163.97	1,729.35	1,452.42	276.94	6.245	
16,400.00	7,806.81	7,753.81	7,753.81	173.09	155.57	-90.00	-8,175.20	2,163.97	1,809.05	1,535.12	273.93	6.604	
16,500.00	7,806.80	7,753.80	7,753.80	174.83	155.57	-90.00	-8,175.20	2,163.97	1,890.68	1,619.60	271.08	6.975	
16,600.00	7,806.80	7,753.80	7,753.80	176.57	155.57	-90.00	-8,175.20	2,163.97	1,974.00	1,705.62	268.38	7.355	
16,700.00	7,806.80	7,753.80	7,753.80	178.31	155.57	-90.00	-8,175.20	2,163.97	2,058.80	1,792.96	265.84	7.745	
16,800.00	7,806.80	7,753.80	7,753.80	180.05	155.57	-90.00	-8,175.20	2,163.97	2,144.92	1,881.47	263.45	8.142	
16,900.00	7,806.79	7,753.79	7,753.79	181.79	155.57	-90.00	-8,175.20	2,163.97	2,232.19	1,970.99	261.20	8.546	
17,000.00	7,806.79	7,753.79	7,753.79	183.53	155.57	-90.00	-8,175.20	2,163.97	2,320.49	2,061.40	259.09	8.956	
17,100.00	7,806.79	7,753.79	7,753.79	185.27	155.57	-90.00	-8,175.20	2,163.97	2,409.70	2,152.59	257.11	9.372	
17,200.00	7,806.79	7,753.79	7,753.79	187.02	155.57	-90.00	-8,175.20	2,163.97	2,499.73	2,244.48	255.25	9.793	
17,300.00	7,806.78	7,753.78	7,753.78	188.76	155.57	-90.00	-8,175.20	2,163.97	2,590.50	2,336.99	253.50	10.219	
17,400.00	7,806.78	7,753.78	7,753.78	190.51	155.57	-90.00	-8,175.20	2,163.97	2,681.92	2,430.06	251.86	10.649	
17,500.00	7,806.78	7,753.78	7,753.78	192.25	155.57	-90.00	-8,175.20	2,163.97	2,773.93	2,523.61	250.31	11.082	
17,600.00	7,806.78	7,753.78	7,753.78	194.00	155.57	-90.00	-8,175.20	2,163.97	2,866.47	2,617.62	248.86	11.519	
17,700.00	7,806.77	7,753.77	7,753.77	195.74	155.57	-90.00	-8,175.20	2,163.97	2,959.51	2,712.02	247.49	11.958	
17,800.00	7,806.77	7,753.77	7,753.77	197.49	155.57	-90.00	-8,175.20	2,163.97	3,052.98	2,806.78	246.20	12.401	
17,900.00	7,806.77	7,753.77	7,753.77	199.24	155.57	-90.00	-8,175.20	2,163.97	3,146.85	2,901.87	244.98	12.845	
17,973.82	7,807.00	7,754.00	7,754.00	200.53	155.58	-90.00	-8,175.20	2,163.97	3,216.43	2,972.30	244.14	13.175	
17,974.53	7,807.00	7,754.00	7,754.00	200.55	155.58	-90.00	-8,175.20	2,163.97	3,217.11	2,971.38	245.73	13.092	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,850.00	7,625.34	7,634.34	7,634.34	38.59	153.16	23.10	-10,701.10	-1,862.01	9,993.40	9,803.97	189.43	52.755		
7,900.00	7,660.33	7,669.33	7,669.33	38.99	153.86	25.08	-10,701.10	-1,862.01	9,959.33	9,768.97	190.36	52.318		
7,950.00	7,692.07	7,701.07	7,701.07	39.40	154.50	27.60	-10,701.10	-1,862.01	9,922.48	9,731.25	191.23	51.888		
8,000.00	7,720.33	7,729.33	7,729.33	39.85	155.07	30.81	-10,701.10	-1,862.01	9,883.15	9,691.13	192.03	51.468		
8,050.00	7,744.88	7,753.88	7,753.88	40.31	155.56	34.98	-10,701.10	-1,862.01	9,841.64	9,648.90	192.75	51.060		
8,100.00	7,765.55	7,774.55	7,774.55	40.79	155.98	40.45	-10,701.10	-1,862.01	9,798.27	9,604.88	193.39	50.667		
8,150.00	7,782.18	7,808.82	7,791.18	41.30	156.67	47.71	-10,701.10	-1,862.01	9,753.36	9,559.07	194.29	50.199		
8,200.00	7,794.63	7,803.63	7,803.63	41.81	156.56	57.28	-10,701.10	-1,862.01	9,707.27	9,512.86	194.41	49.933		
8,250.00	7,802.82	7,811.82	7,811.82	42.34	156.73	69.55	-10,701.10	-1,862.01	9,660.34	9,465.56	194.78	49.596		
8,300.00	7,806.68	7,815.68	7,815.68	42.88	156.81	84.09	-10,701.10	-1,862.01	9,612.94	9,417.87	195.06	49.281		
8,319.29	7,807.00	7,816.00	7,816.00	43.09	156.81	90.00	-10,701.10	-1,862.01	9,594.60	9,399.45	195.15	49.166		
8,400.00	7,807.00	7,816.00	7,816.00	43.98	156.81	90.00	-10,701.10	-1,862.01	9,517.89	9,322.42	195.47	48.691		
8,500.00	7,807.00	7,816.00	7,816.00	45.12	156.81	90.00	-10,701.10	-1,862.01	9,422.95	9,227.06	195.89	48.103		
8,600.00	7,806.99	7,815.99	7,815.99	46.31	156.81	90.00	-10,701.10	-1,862.01	9,328.11	9,131.78	196.32	47.514		
8,700.00	7,806.99	7,815.99	7,815.99	47.53	156.81	90.00	-10,701.10	-1,862.01	9,233.38	9,036.61	196.77	46.925		
8,800.00	7,806.99	7,815.99	7,815.99	48.78	156.81	90.00	-10,701.10	-1,862.01	9,138.76	8,941.53	197.23	46.335		
8,900.00	7,806.99	7,815.99	7,815.99	50.07	156.81	90.00	-10,701.10	-1,862.01	9,044.26	8,846.55	197.71	45.745		
9,000.00	7,806.98	7,815.98	7,815.98	51.38	156.81	90.00	-10,701.10	-1,862.01	8,949.87	8,751.67	198.20	45.155		
9,100.00	7,806.98	7,815.98	7,815.98	52.72	156.81	90.00	-10,701.10	-1,862.01	8,855.61	8,656.90	198.71	44.565		
9,200.00	7,806.98	7,815.98	7,815.98	54.09	156.81	90.00	-10,701.10	-1,862.01	8,761.48	8,562.24	199.24	43.974		
9,300.00	7,806.98	7,815.98	7,815.98	55.48	156.81	90.00	-10,701.10	-1,862.01	8,667.48	8,467.70	199.78	43.384		
9,400.00	7,806.97	7,815.97	7,815.97	56.89	156.81	90.00	-10,701.10	-1,862.01	8,573.61	8,373.27	200.35	42.794		
9,500.00	7,806.97	7,815.97	7,815.97	58.32	156.81	90.00	-10,701.10	-1,862.01	8,479.89	8,278.96	200.93	42.204		
9,600.00	7,806.97	7,815.97	7,815.97	59.77	156.81	90.00	-10,701.10	-1,862.01	8,386.31	8,184.79	201.52	41.614		
9,700.00	7,806.97	7,815.97	7,815.97	61.23	156.81	90.00	-10,701.10	-1,862.01	8,292.88	8,090.74	202.14	41.025		
9,800.00	7,806.96	7,815.96	7,815.96	62.71	156.81	90.00	-10,701.10	-1,862.01	8,199.60	7,996.83	202.78	40.436		
9,900.00	7,806.96	7,815.96	7,815.96	64.21	156.81	90.00	-10,701.10	-1,862.01	8,106.49	7,903.05	203.44	39.848		
10,000.00	7,806.96	7,815.96	7,815.96	65.72	156.81	90.00	-10,701.10	-1,862.01	8,013.54	7,809.43	204.11	39.260		
10,100.00	7,806.96	7,815.96	7,815.96	67.24	156.81	90.00	-10,701.10	-1,862.01	7,920.76	7,715.95	204.81	38.673		
10,200.00	7,806.95	7,815.95	7,815.95	68.78	156.81	90.00	-10,701.10	-1,862.01	7,828.16	7,622.63	205.54	38.087		
10,300.00	7,806.95	7,815.95	7,815.95	70.32	156.81	90.00	-10,701.10	-1,862.01	7,735.75	7,529.47	206.28	37.501		
10,400.00	7,806.95	7,815.95	7,815.95	71.88	156.81	90.00	-10,701.10	-1,862.01	7,643.52	7,436.48	207.05	36.917		
10,500.00	7,806.95	7,815.95	7,815.95	73.45	156.81	90.00	-10,701.10	-1,862.01	7,551.50	7,343.66	207.84	36.334		
10,600.00	7,806.95	7,815.95	7,815.95	75.02	156.81	90.00	-10,701.10	-1,862.01	7,459.68	7,251.02	208.65	35.752		
10,700.00	7,806.94	7,815.94	7,815.94	76.61	156.81	90.00	-10,701.10	-1,862.01	7,368.07	7,158.58	209.49	35.171		
10,800.00	7,806.94	7,815.94	7,815.94	78.20	156.81	90.00	-10,701.10	-1,862.01	7,276.68	7,066.32	210.36	34.592		
10,900.00	7,806.94	7,815.94	7,815.94	79.80	156.81	90.00	-10,701.10	-1,862.01	7,185.52	6,974.27	211.25	34.014		
11,000.00	7,806.94	7,815.94	7,815.94	81.41	156.81	90.00	-10,701.10	-1,862.01	7,094.60	6,882.43	212.17	33.438		
11,100.00	7,806.93	7,815.93	7,815.93	83.02	156.81	90.00	-10,701.10	-1,862.01	7,003.93	6,790.81	213.12	32.864		
11,200.00	7,806.93	7,815.93	7,815.93	84.64	156.81	90.00	-10,701.10	-1,862.01	6,913.52	6,699.42	214.10	32.291		
11,300.00	7,806.93	7,815.93	7,815.93	86.27	156.81	90.00	-10,701.10	-1,862.01	6,823.37	6,608.26	215.11	31.721		
11,400.00	7,806.93	7,815.93	7,815.93	87.90	156.81	90.00	-10,701.10	-1,862.01	6,733.50	6,517.36	216.15	31.152		
11,500.00	7,806.92	7,815.92	7,815.92	89.54	156.81	90.00	-10,701.10	-1,862.01	6,643.92	6,426.71	217.22	30.586		
11,600.00	7,806.92	7,815.92	7,815.92	91.18	156.81	90.00	-10,701.10	-1,862.01	6,554.65	6,336.32	218.32	30.023		
11,700.00	7,806.92	7,815.92	7,815.92	92.83	156.81	90.00	-10,701.10	-1,862.01	6,465.68	6,246.22	219.46	29.462		
11,800.00	7,806.92	7,815.92	7,815.92	94.48	156.81	90.00	-10,701.10	-1,862.01	6,377.04	6,156.41	220.63	28.904		
11,900.00	7,806.91	7,815.91	7,815.91	96.14	156.81	90.00	-10,701.10	-1,862.01	6,288.75	6,066.91	221.84	28.348		
12,000.00	7,806.91	7,815.91	7,815.91	97.80	156.81	90.00	-10,701.10	-1,862.01	6,200.81	5,977.72	223.08	27.796		
12,100.00	7,806.91	7,815.91	7,815.91	99.46	156.81	90.00	-10,701.10	-1,862.01	6,113.24	5,888.87	224.37	27.247		
12,200.00	7,806.91	7,815.91	7,815.91	101.13	156.81	90.00	-10,701.10	-1,862.01	6,026.05	5,800.37	225.69	26.701		
12,300.00	7,806.90	7,815.90	7,815.90	102.80	156.81	90.00	-10,701.10	-1,862.01	5,939.27	5,712.22	227.05	26.158		
12,400.00	7,806.90	7,815.90	7,815.90	104.47	156.81	90.00	-10,701.10	-1,862.01	5,852.92	5,624.46	228.46	25.620		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,500.00	7,806.90	7,815.90	7,815.90	106.15	156.81	90.00	-10,701.10	-1,862.01	5,767.00	5,537.10	229.90	25.085		
12,600.00	7,806.90	7,815.90	7,815.90	107.83	156.81	90.00	-10,701.10	-1,862.01	5,681.55	5,450.15	231.39	24.554		
12,700.00	7,806.89	7,815.89	7,815.89	109.52	156.81	90.00	-10,701.10	-1,862.01	5,596.57	5,363.64	232.93	24.027		
12,800.00	7,806.89	7,815.89	7,815.89	111.20	156.81	90.00	-10,701.10	-1,862.01	5,512.10	5,277.59	234.51	23.505		
12,900.00	7,806.89	7,815.89	7,815.89	112.89	156.81	90.00	-10,701.10	-1,862.01	5,428.16	5,192.02	236.14	22.987		
13,000.00	7,806.89	7,815.89	7,815.89	114.59	156.81	90.00	-10,701.10	-1,862.01	5,344.77	5,106.95	237.82	22.474		
13,100.00	7,806.88	7,815.88	7,815.88	116.28	156.81	90.00	-10,701.10	-1,862.01	5,261.96	5,022.41	239.55	21.966		
13,200.00	7,806.88	7,815.88	7,815.88	117.98	156.81	90.00	-10,701.10	-1,862.01	5,179.76	4,938.43	241.33	21.463		
13,300.00	7,806.88	7,815.88	7,815.88	119.68	156.81	90.00	-10,701.10	-1,862.01	5,098.19	4,855.02	243.17	20.966		
13,400.00	7,806.88	7,815.88	7,815.88	121.38	156.81	90.00	-10,701.10	-1,862.01	5,017.29	4,772.24	245.06	20.474		
13,500.00	7,806.88	7,815.88	7,815.88	123.08	156.81	90.00	-10,701.10	-1,862.01	4,937.09	4,690.09	247.00	19.988		
13,600.00	7,806.87	7,815.87	7,815.87	124.79	156.81	90.00	-10,701.10	-1,862.01	4,857.63	4,608.62	249.01	19.508		
13,700.00	7,806.87	7,815.87	7,815.87	126.49	156.81	90.00	-10,701.10	-1,862.01	4,778.93	4,527.87	251.06	19.035		
13,800.00	7,806.87	7,815.87	7,815.87	128.20	156.81	90.00	-10,701.10	-1,862.01	4,701.05	4,447.87	253.18	18.568		
13,900.00	7,806.87	7,815.87	7,815.87	129.91	156.81	90.00	-10,701.10	-1,862.01	4,624.02	4,368.66	255.36	18.108		
14,000.00	7,806.86	7,815.86	7,815.86	131.62	156.81	90.00	-10,701.10	-1,862.01	4,547.88	4,290.28	257.60	17.655		
14,100.00	7,806.86	7,815.86	7,815.86	133.34	156.81	90.00	-10,701.10	-1,862.01	4,472.68	4,212.78	259.90	17.209		
14,200.00	7,806.86	7,815.86	7,815.86	135.05	156.81	90.00	-10,701.10	-1,862.01	4,398.47	4,136.21	262.26	16.771		
14,300.00	7,806.86	7,815.86	7,815.86	136.77	156.81	90.00	-10,701.10	-1,862.01	4,325.29	4,060.61	264.68	16.341		
14,400.00	7,806.85	7,815.85	7,815.85	138.49	156.81	90.00	-10,701.10	-1,862.01	4,253.21	3,986.05	267.17	15.920		
14,500.00	7,806.85	7,815.85	7,815.85	140.21	156.81	90.00	-10,701.10	-1,862.01	4,182.28	3,912.57	269.71	15.506		
14,600.00	7,806.85	7,815.85	7,815.85	141.93	156.81	90.00	-10,701.10	-1,862.01	4,112.56	3,840.24	272.32	15.102		
14,700.00	7,806.85	7,815.85	7,815.85	143.65	156.81	90.00	-10,701.10	-1,862.01	4,044.11	3,769.12	274.98	14.707		
14,800.00	7,806.84	7,815.84	7,815.84	145.37	156.81	90.00	-10,701.10	-1,862.01	3,976.99	3,699.29	277.71	14.321		
14,900.00	7,806.84	7,815.84	7,815.84	147.10	156.81	90.00	-10,701.10	-1,862.01	3,911.28	3,630.80	280.49	13.945		
15,000.00	7,806.84	7,815.84	7,815.84	148.83	156.81	90.00	-10,701.10	-1,862.01	3,847.05	3,563.73	283.32	13.579		
15,100.00	7,806.84	7,815.84	7,815.84	150.55	156.81	90.00	-10,701.10	-1,862.01	3,784.37	3,498.17	286.20	13.223		
15,200.00	7,806.83	7,815.83	7,815.83	152.28	156.81	90.00	-10,701.10	-1,862.01	3,723.32	3,434.19	289.13	12.878		
15,300.00	7,806.83	7,815.83	7,815.83	154.01	156.81	90.00	-10,701.10	-1,862.01	3,663.98	3,371.88	292.10	12.544		
15,400.00	7,806.83	7,815.83	7,815.83	155.74	156.81	90.00	-10,701.10	-1,862.01	3,606.44	3,311.34	295.10	12.221		
15,500.00	7,806.83	7,815.83	7,815.83	157.47	156.81	90.00	-10,701.10	-1,862.01	3,550.79	3,252.65	298.14	11.910		
15,600.00	7,806.82	7,815.82	7,815.82	159.20	156.81	90.00	-10,701.10	-1,862.01	3,497.11	3,195.91	301.20	11.611		
15,700.00	7,806.82	7,815.82	7,815.82	160.93	156.81	90.00	-10,701.10	-1,862.01	3,445.49	3,141.22	304.27	11.324		
15,800.00	7,806.82	7,815.82	7,815.82	162.67	156.81	90.00	-10,701.10	-1,862.01	3,396.04	3,088.70	307.34	11.050		
15,900.00	7,806.82	7,815.82	7,815.82	164.40	156.81	90.00	-10,701.10	-1,862.01	3,348.84	3,038.43	310.41	10.788		
16,000.00	7,806.81	7,815.81	7,815.81	166.14	156.81	90.00	-10,701.10	-1,862.01	3,303.99	2,990.53	313.46	10.540		
16,100.00	7,806.81	7,815.81	7,815.81	167.87	156.81	90.00	-10,701.10	-1,862.01	3,261.60	2,945.11	316.49	10.306		
16,200.00	7,806.81	7,815.81	7,815.81	169.61	156.81	90.00	-10,701.10	-1,862.01	3,221.75	2,902.28	319.47	10.085		
16,300.00	7,806.81	7,815.81	7,815.81	171.35	156.81	90.00	-10,701.10	-1,862.01	3,184.55	2,862.15	322.40	9.878		
16,400.00	7,806.81	7,815.81	7,815.81	173.09	156.81	90.00	-10,701.10	-1,862.01	3,150.08	2,824.83	325.26	9.685		
16,500.00	7,806.80	7,815.80	7,815.80	174.83	156.81	90.00	-10,701.10	-1,862.01	3,118.44	2,790.41	328.03	9.507		
16,600.00	7,806.80	7,815.80	7,815.80	176.57	156.81	90.00	-10,701.10	-1,862.01	3,089.71	2,759.01	330.70	9.343		
16,700.00	7,806.80	7,815.80	7,815.80	178.31	156.81	90.00	-10,701.10	-1,862.01	3,063.98	2,730.73	333.26	9.194		
16,800.00	7,806.80	7,815.80	7,815.80	180.05	156.81	90.00	-10,701.10	-1,862.01	3,041.32	2,705.64	335.68	9.060		
16,900.00	7,806.79	7,815.79	7,815.79	181.79	156.81	90.00	-10,701.10	-1,862.01	3,021.81	2,683.84	337.97	8.941		
17,000.00	7,806.79	7,815.79	7,815.79	183.53	156.81	90.00	-10,701.10	-1,862.01	3,005.49	2,665.40	340.09	8.837		
17,100.00	7,806.79	7,815.79	7,815.79	185.27	156.81	90.00	-10,701.10	-1,862.01	2,992.43	2,650.39	342.04	8.749		
17,200.00	7,806.79	7,815.79	7,815.79	187.02	156.81	90.00	-10,701.10	-1,862.01	2,982.67	2,638.85	343.81	8.675		
17,300.00	7,806.78	7,815.78	7,815.78	188.76	156.81	90.00	-10,701.10	-1,862.01	2,976.23	2,630.84	345.39	8.617		
17,400.00	7,806.78	7,815.78	7,815.78	190.51	156.81	90.00	-10,701.10	-1,862.01	2,973.15	2,626.38	346.77	8.574		
17,441.70	7,806.78	7,815.78	7,815.78	191.23	156.81	90.00	-10,701.10	-1,862.01	2,972.86	2,625.57	347.28	8.560 CC		
17,500.00	7,806.78	7,815.78	7,815.78	192.25	156.81	90.00	-10,701.10	-1,862.01	2,973.43	2,625.49	347.94	8.546 ES		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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
Sec 4-T1N-R68W - EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #1													
Reference		Offset		Semi Major Axis		Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,600.00	7,806.78	7,815.78	7,815.78	194.00	156.81	90.00	-10,701.10	-1,862.01	2,977.07	2,628.17	348.90	8.533 SF	
17,700.00	7,806.77	7,815.77	7,815.77	195.74	156.81	90.00	-10,701.10	-1,862.01	2,984.06	2,634.40	349.65	8.534	
17,800.00	7,806.77	7,815.77	7,815.77	197.49	156.81	90.00	-10,701.10	-1,862.01	2,994.37	2,644.18	350.19	8.551	
17,900.00	7,806.77	7,815.77	7,815.77	199.24	156.81	90.00	-10,701.10	-1,862.01	3,007.97	2,657.46	350.52	8.581	
17,973.82	7,807.00	7,816.00	7,816.00	200.53	156.81	90.00	-10,701.10	-1,862.01	3,019.95	2,669.32	350.63	8.613	
17,974.53	7,807.00	7,816.00	7,816.00	200.55	156.81	90.00	-10,701.10	-1,862.01	3,020.08	2,669.44	350.64	8.613	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	176.18	-9,697.95	648.28	9,719.63					
100.00	100.00	73.00	73.00	0.13	0.85	176.18	-9,697.95	648.28	9,719.59	9,718.61	0.98	9,918.232		
200.00	200.00	173.00	173.00	0.49	2.84	176.18	-9,697.95	648.28	9,719.59	9,716.26	3.33	2,919.554		
300.00	300.00	273.00	273.00	0.85	4.97	176.18	-9,697.95	648.28	9,719.59	9,713.77	5.83	1,668.342		
400.00	400.00	373.00	373.00	1.21	7.03	176.18	-9,697.95	648.28	9,719.59	9,711.36	8.24	1,180.046		
500.00	500.00	473.00	473.00	1.57	9.06	176.18	-9,697.95	648.28	9,719.59	9,708.97	10.63	914.546		
600.00	600.00	573.00	573.00	1.93	11.08	176.18	-9,697.95	648.28	9,719.59	9,706.58	13.01	747.043		
700.00	700.00	673.00	673.00	2.29	13.10	176.18	-9,697.95	648.28	9,719.59	9,704.20	15.39	631.574		
800.00	800.00	773.00	773.00	2.64	15.12	176.18	-9,697.95	648.28	9,719.59	9,701.83	17.77	547.100		
900.00	900.00	873.00	873.00	3.00	17.14	176.18	-9,697.95	648.28	9,719.59	9,699.45	20.14	482.595		
1,000.00	1,000.00	973.00	973.00	3.36	19.15	176.18	-9,697.95	648.28	9,719.59	9,697.08	22.51	431.718		
1,100.00	1,100.00	1,073.00	1,073.00	3.72	21.17	176.18	-9,697.95	648.28	9,719.59	9,694.71	24.89	390.558		
1,200.00	1,199.98	1,172.98	1,172.98	4.06	23.18	43.01	-9,697.95	648.28	9,718.32	9,691.07	27.24	356.718		
1,300.00	1,299.84	1,272.84	1,272.84	4.40	25.19	43.09	-9,697.95	648.28	9,714.49	9,684.90	29.59	328.320		
1,400.00	1,399.45	1,372.45	1,372.45	4.74	27.20	43.21	-9,697.95	648.28	9,708.12	9,676.19	31.93	304.002		
1,500.00	1,498.70	1,471.70	1,471.70	5.09	29.19	43.38	-9,697.95	648.28	9,699.22	9,664.94	34.28	282.942		
1,600.00	1,597.47	1,570.47	1,570.47	5.46	31.18	43.60	-9,697.95	648.28	9,687.80	9,651.18	36.62	264.518		
1,700.00	1,695.62	1,668.62	1,668.62	5.85	33.16	43.87	-9,697.95	648.28	9,673.90	9,634.93	38.97	248.254		
1,800.00	1,793.06	1,766.06	1,766.06	6.27	35.12	44.20	-9,697.95	648.28	9,657.52	9,616.21	41.31	233.780		
1,867.07	1,857.94	1,830.94	1,830.94	6.57	36.42	44.44	-9,697.95	648.28	9,645.17	9,602.29	42.88	224.925		
1,900.00	1,889.69	1,862.69	1,862.69	6.72	37.06	44.48	-9,697.95	648.28	9,638.85	9,595.19	43.65	220.804		
2,000.00	1,986.13	1,959.13	1,959.13	7.19	39.00	44.59	-9,697.95	648.28	9,619.65	9,573.65	46.00	209.114		
2,100.00	2,082.57	2,055.57	2,055.57	7.68	40.94	44.69	-9,697.95	648.28	9,600.49	9,552.13	48.36	198.516		
2,200.00	2,179.00	2,152.00	2,152.00	8.18	42.88	44.80	-9,697.95	648.28	9,581.37	9,530.64	50.73	188.872		
2,300.00	2,275.44	2,248.44	2,248.44	8.69	44.82	44.91	-9,697.95	648.28	9,562.28	9,509.17	53.11	180.063		
2,400.00	2,371.88	2,344.88	2,344.88	9.21	46.76	45.02	-9,697.95	648.28	9,543.23	9,487.74	55.49	171.987		
2,500.00	2,468.31	2,441.31	2,441.31	9.74	48.70	45.13	-9,697.95	648.28	9,524.21	9,466.33	57.88	164.561		
2,600.00	2,564.75	2,537.75	2,537.75	10.28	50.64	45.25	-9,697.95	648.28	9,505.22	9,444.95	60.27	157.710		
2,700.00	2,661.19	2,634.19	2,634.19	10.82	52.58	45.36	-9,697.95	648.28	9,486.28	9,423.61	62.67	151.372		
2,800.00	2,757.62	2,730.62	2,730.62	11.37	54.52	45.47	-9,697.95	648.28	9,467.37	9,402.29	65.07	145.492		
2,900.00	2,854.06	2,827.06	2,827.06	11.92	56.46	45.58	-9,697.95	648.28	9,448.49	9,381.01	67.48	140.024		
3,000.00	2,950.50	2,923.50	2,923.50	12.47	58.40	45.69	-9,697.95	648.28	9,429.65	9,359.76	69.89	134.927		
3,100.00	3,046.93	3,019.93	3,019.93	13.03	60.34	45.81	-9,697.95	648.28	9,410.85	9,338.55	72.30	130.165		
3,200.00	3,143.37	3,116.37	3,116.37	13.59	62.28	45.92	-9,697.95	648.28	9,392.08	9,317.37	74.72	125.705		
3,300.00	3,239.81	3,212.81	3,212.81	14.15	64.22	46.03	-9,697.95	648.28	9,373.36	9,296.22	77.13	121.522		
3,400.00	3,336.24	3,309.24	3,309.24	14.72	66.16	46.15	-9,697.95	648.28	9,354.67	9,275.11	79.55	117.589		
3,500.00	3,432.68	3,405.68	3,405.68	15.28	68.10	46.26	-9,697.95	648.28	9,336.01	9,254.04	81.98	113.887		
3,600.00	3,529.12	3,502.12	3,502.12	15.85	70.04	46.38	-9,697.95	648.28	9,317.40	9,233.00	84.40	110.394		
3,700.00	3,625.55	3,601.45	3,598.55	16.42	72.03	46.50	-9,697.95	648.28	9,298.82	9,211.93	86.89	107.023		
3,800.00	3,721.99	3,705.01	3,694.99	16.99	74.12	46.61	-9,697.95	648.28	9,280.28	9,190.82	89.46	103.738		
3,900.00	3,818.43	3,808.57	3,791.43	17.56	76.20	46.73	-9,697.95	648.28	9,261.78	9,169.75	92.03	100.636		
4,000.00	3,914.86	3,887.86	3,887.86	18.14	77.80	46.85	-9,697.95	648.28	9,243.32	9,149.20	94.12	98.208		
4,100.00	4,011.30	3,984.30	3,984.30	18.71	79.73	46.96	-9,697.95	648.28	9,224.90	9,128.34	96.55	95.542		
4,200.00	4,107.74	4,080.74	4,080.74	19.29	81.67	47.08	-9,697.95	648.28	9,206.51	9,107.52	98.99	93.005		
4,300.00	4,204.17	4,177.17	4,177.17	19.86	83.61	47.20	-9,697.95	648.28	9,188.17	9,086.74	101.43	90.590		
4,400.00	4,300.61	4,273.61	4,273.61	20.44	85.55	47.32	-9,697.95	648.28	9,169.86	9,066.00	103.86	88.286		
4,500.00	4,397.05	4,370.05	4,370.05	21.02	87.49	47.44	-9,697.95	648.28	9,151.60	9,045.29	106.30	86.088		
4,600.00	4,493.48	4,466.48	4,466.48	21.59	89.43	47.56	-9,697.95	648.28	9,133.37	9,024.63	108.75	83.988		
4,700.00	4,589.92	4,562.92	4,562.92	22.17	91.37	47.68	-9,697.95	648.28	9,115.19	9,004.00	111.19	81.979		
4,800.00	4,686.36	4,659.36	4,659.36	22.75	93.31	47.80	-9,697.95	648.28	9,097.04	8,983.41	113.63	80.056		
4,900.00	4,782.79	4,755.79	4,755.79	23.33	95.25	47.92	-9,697.95	648.28	9,078.94	8,962.86	116.08	78.214		
5,000.00	4,879.23	4,852.23	4,852.23	23.91	97.19	48.04	-9,697.95	648.28	9,060.88	8,942.35	118.53	76.447		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	4,975.67	4,948.67	4,948.67	24.49	99.13	48.16	-9,697.95	648.28	9,042.86	8,921.89	120.97	74.751		
5,200.00	5,072.10	5,045.10	5,045.10	25.07	101.07	48.29	-9,697.95	648.28	9,024.88	8,901.46	123.42	73.122		
5,300.00	5,168.54	5,141.54	5,141.54	25.66	103.01	48.41	-9,697.95	648.28	9,006.94	8,881.07	125.87	71.556		
5,400.00	5,264.98	5,237.98	5,237.98	26.24	104.95	48.53	-9,697.95	648.28	8,989.05	8,860.72	128.32	70.050		
5,500.00	5,361.41	5,334.41	5,334.41	26.82	106.89	48.66	-9,697.95	648.28	8,971.20	8,840.42	130.78	68.599		
5,600.00	5,457.85	5,430.85	5,430.85	27.40	108.83	48.78	-9,697.95	648.28	8,953.39	8,820.15	133.23	67.202		
5,700.00	5,554.29	5,527.29	5,527.29	27.99	110.77	48.91	-9,697.95	648.28	8,935.62	8,799.93	135.69	65.855		
5,800.00	5,650.72	5,623.72	5,623.72	28.57	112.70	49.03	-9,697.95	648.28	8,917.89	8,779.75	138.14	64.556		
5,900.00	5,747.16	5,720.16	5,720.16	29.15	114.64	49.16	-9,697.95	648.28	8,900.21	8,759.61	140.60	63.302		
6,000.00	5,843.60	5,816.60	5,816.60	29.74	116.58	49.29	-9,697.95	648.28	8,882.58	8,739.52	143.06	62.091		
6,100.00	5,940.03	5,913.03	5,913.03	30.32	118.52	49.41	-9,697.95	648.28	8,864.98	8,719.46	145.52	60.921		
6,200.00	6,036.47	6,009.47	6,009.47	30.90	120.46	49.54	-9,697.95	648.28	8,847.43	8,699.45	147.98	59.789		
6,300.00	6,132.91	6,105.91	6,105.91	31.49	122.40	49.67	-9,697.95	648.28	8,829.93	8,679.49	150.44	58.694		
6,400.00	6,229.34	6,202.34	6,202.34	32.07	124.34	49.80	-9,697.95	648.28	8,812.47	8,659.57	152.90	57.635		
6,500.00	6,325.78	6,301.22	6,298.78	32.66	126.33	49.93	-9,697.95	648.28	8,795.05	8,639.64	155.42	56.591		
6,552.14	6,376.06	6,349.06	6,349.06	32.96	127.29	49.99	-9,697.95	648.28	8,785.99	8,629.34	156.65	56.086		
6,600.00	6,422.32	6,404.68	6,395.32	33.24	128.41	49.93	-9,697.95	648.28	8,777.94	8,619.92	158.02	55.550		
6,700.00	6,519.60	6,507.40	6,492.60	33.78	130.48	49.81	-9,697.95	648.28	8,762.78	8,602.20	160.58	54.571		
6,800.00	6,617.63	6,609.37	6,590.63	34.27	132.53	49.71	-9,697.95	648.28	8,749.88	8,586.79	163.09	53.651		
6,900.00	6,716.28	6,689.28	6,689.28	34.72	134.13	49.62	-9,697.95	648.28	8,739.24	8,574.12	165.12	52.926		
7,000.00	6,815.45	6,788.45	6,788.45	35.13	136.13	49.56	-9,697.95	648.28	8,730.87	8,563.36	167.51	52.121		
7,100.00	6,915.00	6,888.00	6,888.00	35.49	138.13	49.51	-9,697.95	648.28	8,724.76	8,554.89	169.87	51.360		
7,200.00	7,014.82	6,987.82	6,987.82	35.81	140.14	49.48	-9,697.95	648.28	8,720.92	8,548.72	172.21	50.642		
7,300.00	7,114.79	7,087.79	7,087.79	36.09	142.15	49.47	-9,697.95	648.28	8,719.35	8,544.84	174.51	49.964		
7,319.21	7,134.00	7,107.00	7,107.00	36.14	142.53	-177.34	-9,697.95	648.28	8,719.31	8,544.36	174.95	49.838		
7,400.00	7,214.79	7,187.79	7,187.79	36.33	144.16	-177.34	-9,697.95	648.28	8,719.31	8,542.52	176.79	49.321		
7,419.21	7,234.00	7,207.00	7,207.00	36.37	144.54	-177.34	-9,697.95	648.28	8,719.31	8,542.09	177.22	49.199		
7,450.00	7,264.77	7,237.77	7,237.77	36.46	145.16	3.01	-9,697.95	648.28	8,718.49	8,540.56	177.93	49.000		
7,500.00	7,314.52	7,287.52	7,287.52	36.62	146.16	3.03	-9,697.95	648.28	8,713.63	8,534.56	179.07	48.660		
7,550.00	7,363.66	7,336.66	7,336.66	36.81	147.15	3.09	-9,697.95	648.28	8,704.47	8,524.26	180.21	48.301		
7,600.00	7,411.80	7,384.80	7,384.80	37.03	148.12	3.17	-9,697.95	648.28	8,691.07	8,509.73	181.34	47.927		
7,650.00	7,458.60	7,431.60	7,431.60	37.29	149.06	3.28	-9,697.95	648.28	8,673.52	8,491.08	182.44	47.540		
7,700.00	7,503.68	7,476.68	7,476.68	37.57	149.97	3.43	-9,697.95	648.28	8,651.97	8,468.46	183.52	47.146		
7,750.00	7,546.72	7,519.72	7,519.72	37.89	150.83	3.62	-9,697.95	648.28	8,626.58	8,442.04	184.54	46.746		
7,800.00	7,587.37	7,560.37	7,560.37	38.23	151.65	3.87	-9,697.95	648.28	8,597.54	8,412.02	185.52	46.343		
7,850.00	7,625.34	7,601.66	7,598.34	38.59	152.48	4.18	-9,697.95	648.28	8,565.08	8,378.57	186.50	45.924		
7,900.00	7,660.33	7,633.33	7,633.33	38.99	153.12	4.59	-9,697.95	648.28	8,529.43	8,342.14	187.29	45.542		
7,950.00	7,692.07	7,665.07	7,665.07	39.40	153.76	5.12	-9,697.95	648.28	8,490.88	8,302.82	188.06	45.150		
8,000.00	7,720.33	7,706.67	7,693.33	39.85	154.59	5.84	-9,697.95	648.28	8,449.71	8,260.68	189.02	44.702		
8,050.00	7,744.88	7,717.88	7,717.88	40.31	154.82	6.85	-9,697.95	648.28	8,406.23	8,216.87	189.36	44.393		
8,100.00	7,765.55	7,738.55	7,738.55	40.79	155.23	8.33	-9,697.95	648.28	8,360.79	8,170.92	189.88	44.033		
8,150.00	7,782.18	7,755.18	7,755.18	41.30	155.57	10.70	-9,697.95	648.28	8,313.72	8,123.43	190.30	43.688		
8,200.00	7,794.63	7,767.63	7,767.63	41.81	155.82	14.99	-9,697.95	648.28	8,265.39	8,074.77	190.62	43.361		
8,250.00	7,802.82	7,775.82	7,775.82	42.34	155.98	24.77	-9,697.95	648.28	8,216.15	8,025.31	190.84	43.052		
8,300.00	7,806.68	7,779.68	7,779.68	42.88	156.06	59.01	-9,697.95	648.28	8,166.40	7,975.43	190.97	42.763		
8,319.29	7,807.00	7,780.00	7,780.00	43.09	156.07	90.02	-9,697.95	648.28	8,147.14	7,956.15	190.99	42.657		
8,400.00	7,807.00	7,780.00	7,780.00	43.98	156.07	90.02	-9,697.95	648.28	8,066.56	7,875.51	191.05	42.222		
8,500.00	7,807.00	7,780.00	7,780.00	45.12	156.07	90.02	-9,697.95	648.28	7,966.72	7,775.59	191.13	41.682		
8,600.00	7,806.99	7,779.99	7,779.99	46.31	156.07	90.02	-9,697.95	648.28	7,866.89	7,675.68	191.21	41.143		
8,700.00	7,806.99	7,779.99	7,779.99	47.53	156.07	90.02	-9,697.95	648.28	7,767.06	7,575.76	191.29	40.603		
8,800.00	7,806.99	7,779.99	7,779.99	48.78	156.07	90.02	-9,697.95	648.28	7,667.23	7,475.85	191.38	40.063		
8,900.00	7,806.99	7,779.99	7,779.99	50.07	156.07	90.02	-9,697.95	648.28	7,567.41	7,375.94	191.47	39.523		

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	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				
9,000.00	7,806.98	7,779.98	7,779.98	51.38	156.07	90.02	-9,697.95	648.28	7,467.60	7,276.04	191.56	38.983					
9,100.00	7,806.98	7,779.98	7,779.98	52.72	156.07	90.02	-9,697.95	648.28	7,367.79	7,176.13	191.66	38.443					
9,200.00	7,806.98	7,779.98	7,779.98	54.09	156.07	90.02	-9,697.95	648.28	7,267.98	7,076.23	191.75	37.903					
9,300.00	7,806.98	7,779.98	7,779.98	55.48	156.07	90.02	-9,697.95	648.28	7,168.18	6,976.33	191.86	37.362					
9,400.00	7,806.97	7,779.97	7,779.97	56.89	156.07	90.02	-9,697.95	648.28	7,068.39	6,876.43	191.96	36.822					
9,500.00	7,806.97	7,779.97	7,779.97	58.32	156.07	90.02	-9,697.95	648.28	6,968.60	6,776.53	192.07	36.282					
9,600.00	7,806.97	7,779.97	7,779.97	59.77	156.07	90.02	-9,697.95	648.28	6,868.82	6,676.64	192.18	35.741					
9,700.00	7,806.97	7,779.97	7,779.97	61.23	156.07	90.02	-9,697.95	648.28	6,769.04	6,576.75	192.30	35.201					
9,800.00	7,806.96	7,779.96	7,779.96	62.71	156.07	90.02	-9,697.95	648.28	6,669.27	6,476.86	192.42	34.661					
9,900.00	7,806.96	7,779.96	7,779.96	64.21	156.07	90.02	-9,697.95	648.28	6,569.51	6,376.97	192.54	34.120					
10,000.00	7,806.96	7,779.96	7,779.96	65.72	156.07	90.02	-9,697.95	648.28	6,469.76	6,277.09	192.67	33.580					
10,100.00	7,806.96	7,779.96	7,779.96	67.24	156.07	90.02	-9,697.95	648.28	6,370.01	6,177.21	192.80	33.039					
10,200.00	7,806.95	7,779.95	7,779.95	68.78	156.07	90.02	-9,697.95	648.28	6,270.27	6,077.34	192.94	32.499					
10,300.00	7,806.95	7,779.95	7,779.95	70.32	156.07	90.02	-9,697.95	648.28	6,170.54	5,977.46	193.08	31.959					
10,400.00	7,806.95	7,779.95	7,779.95	71.88	156.07	90.02	-9,697.95	648.28	6,070.82	5,877.59	193.23	31.418					
10,500.00	7,806.95	7,779.95	7,779.95	73.45	156.07	90.02	-9,697.95	648.28	5,971.11	5,777.73	193.38	30.878					
10,600.00	7,806.95	7,779.95	7,779.95	75.02	156.07	90.02	-9,697.95	648.28	5,871.41	5,677.87	193.54	30.337					
10,700.00	7,806.94	7,779.94	7,779.94	76.61	156.07	90.02	-9,697.95	648.28	5,771.72	5,578.01	193.70	29.797					
10,800.00	7,806.94	7,779.94	7,779.94	78.20	156.07	90.02	-9,697.95	648.28	5,672.03	5,478.16	193.87	29.257					
10,900.00	7,806.94	7,779.94	7,779.94	79.80	156.07	90.02	-9,697.95	648.28	5,572.36	5,378.32	194.05	28.717					
11,000.00	7,806.94	7,779.94	7,779.94	81.41	156.07	90.02	-9,697.95	648.28	5,472.71	5,278.48	194.23	28.177					
11,100.00	7,806.93	7,779.93	7,779.93	83.02	156.07	90.02	-9,697.95	648.28	5,373.06	5,178.64	194.42	27.637					
11,200.00	7,806.93	7,779.93	7,779.93	84.64	156.07	90.02	-9,697.95	648.28	5,273.43	5,078.81	194.62	27.097					
11,300.00	7,806.93	7,779.93	7,779.93	86.27	156.07	90.02	-9,697.95	648.28	5,173.81	4,978.99	194.82	26.557					
11,400.00	7,806.93	7,779.93	7,779.93	87.90	156.07	90.02	-9,697.95	648.28	5,074.21	4,879.17	195.04	26.017					
11,500.00	7,806.92	7,779.92	7,779.92	89.54	156.07	90.02	-9,697.95	648.28	4,974.62	4,779.37	195.26	25.477					
11,600.00	7,806.92	7,779.92	7,779.92	91.18	156.07	90.01	-9,697.95	648.28	4,875.06	4,679.56	195.49	24.937					
11,700.00	7,806.92	7,779.92	7,779.92	92.83	156.07	90.01	-9,697.95	648.28	4,775.50	4,579.77	195.73	24.398					
11,800.00	7,806.92	7,779.92	7,779.92	94.48	156.07	90.01	-9,697.95	648.28	4,675.97	4,479.98	195.99	23.858					
11,900.00	7,806.91	7,779.91	7,779.91	96.14	156.07	90.01	-9,697.95	648.28	4,576.46	4,380.21	196.25	23.319					
12,000.00	7,806.91	7,779.91	7,779.91	97.80	156.07	90.01	-9,697.95	648.28	4,476.97	4,280.44	196.53	22.780					
12,100.00	7,806.91	7,779.91	7,779.91	99.46	156.07	90.01	-9,697.95	648.28	4,377.50	4,180.68	196.82	22.241					
12,200.00	7,806.91	7,779.91	7,779.91	101.13	156.07	90.01	-9,697.95	648.28	4,278.06	4,080.94	197.13	21.702					
12,300.00	7,806.90	7,779.90	7,779.90	102.80	156.07	90.01	-9,697.95	648.28	4,178.65	3,981.20	197.45	21.163					
12,400.00	7,806.90	7,779.90	7,779.90	104.47	156.07	90.01	-9,697.95	648.28	4,079.26	3,881.48	197.78	20.625					
12,500.00	7,806.90	7,779.90	7,779.90	106.15	156.07	90.01	-9,697.95	648.28	3,979.90	3,781.77	198.14	20.087					
12,600.00	7,806.90	7,779.90	7,779.90	107.83	156.07	90.01	-9,697.95	648.28	3,880.58	3,682.07	198.51	19.548					
12,700.00	7,806.89	7,779.89	7,779.89	109.52	156.07	90.01	-9,697.95	648.28	3,781.29	3,582.39	198.91	19.010					
12,800.00	7,806.89	7,779.89	7,779.89	111.20	156.07	90.01	-9,697.95	648.28	3,682.05	3,482.72	199.32	18.473					
12,900.00	7,806.89	7,779.89	7,779.89	112.89	156.07	90.01	-9,697.95	648.28	3,582.84	3,383.08	199.76	17.935					
13,000.00	7,806.89	7,779.89	7,779.89	114.59	156.07	90.01	-9,697.95	648.28	3,483.68	3,283.45	200.23	17.398					
13,100.00	7,806.88	7,779.88	7,779.88	116.28	156.07	90.01	-9,697.95	648.28	3,384.57	3,183.84	200.73	16.861					
13,200.00	7,806.88	7,779.88	7,779.88	117.98	156.07	90.01	-9,697.95	648.28	3,285.51	3,084.25	201.26	16.325					
13,300.00	7,806.88	7,779.88	7,779.88	119.68	156.07	90.01	-9,697.95	648.28	3,186.51	2,984.68	201.82	15.788					
13,400.00	7,806.88	7,779.88	7,779.88	121.38	156.07	90.01	-9,697.95	648.28	3,087.57	2,885.15	202.43	15.253					
13,500.00	7,806.88	7,779.88	7,779.88	123.08	156.07	90.01	-9,697.95	648.28	2,988.71	2,785.63	203.07	14.717					
13,600.00	7,806.87	7,779.87	7,779.87	124.79	156.07	90.01	-9,697.95	648.28	2,889.92	2,686.16	203.77	14.182					
13,700.00	7,806.87	7,779.87	7,779.87	126.49	156.07	90.01	-9,697.95	648.28	2,791.22	2,586.71	204.52	13.648					
13,800.00	7,806.87	7,779.87	7,779.87	128.20	156.07	90.01	-9,697.95	648.28	2,692.62	2,487.30	205.32	13.114					
13,900.00	7,806.87	7,779.87	7,779.87	129.91	156.07	90.01	-9,697.95	648.28	2,594.13	2,387.93	206.19	12.581					
14,000.00	7,806.86	7,779.86	7,779.86	131.62	156.07	90.01	-9,697.95	648.28	2,495.75	2,288.61	207.14	12.049					
14,100.00	7,806.86	7,779.86	7,779.86	133.34	156.07	90.01	-9,697.95	648.28	2,397.51	2,189.34	208.17	11.517					

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-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.86	7,779.86	7,779.86	135.05	156.06	90.01	-9,697.95	648.28	2,299.42	2,090.12	209.29	10.987		
14,300.00	7,806.86	7,779.86	7,779.86	136.77	156.06	90.01	-9,697.95	648.28	2,201.50	1,990.98	210.52	10.457		
14,400.00	7,806.85	7,779.85	7,779.85	138.49	156.06	90.01	-9,697.95	648.28	2,103.77	1,891.90	211.87	9.929		
14,500.00	7,806.85	7,779.85	7,779.85	140.21	156.06	90.01	-9,697.95	648.28	2,006.27	1,792.91	213.37	9.403		
14,600.00	7,806.85	7,779.85	7,779.85	141.93	156.06	90.01	-9,697.95	648.28	1,909.03	1,694.01	215.02	8.878		
14,700.00	7,806.85	7,779.85	7,779.85	143.65	156.06	90.01	-9,697.95	648.28	1,812.09	1,595.23	216.86	8.356		
14,800.00	7,806.84	7,779.84	7,779.84	145.37	156.06	90.01	-9,697.95	648.28	1,715.51	1,496.58	218.92	7.836		
14,900.00	7,806.84	7,779.84	7,779.84	147.10	156.06	90.00	-9,697.95	648.28	1,619.33	1,398.10	221.23	7.320		
15,000.00	7,806.84	7,779.84	7,779.84	148.83	156.06	90.00	-9,697.95	648.28	1,523.65	1,299.80	223.85	6.807		
15,100.00	7,806.84	7,779.84	7,779.84	150.55	156.06	90.00	-9,697.95	648.28	1,428.56	1,201.74	226.82	6.298		
15,200.00	7,806.83	7,779.83	7,779.83	152.28	156.06	90.00	-9,697.95	648.28	1,334.19	1,103.97	230.22	5.795		
15,300.00	7,806.83	7,779.83	7,779.83	154.01	156.06	90.00	-9,697.95	648.28	1,240.70	1,006.57	234.12	5.299		
15,400.00	7,806.83	7,779.83	7,779.83	155.74	156.06	90.00	-9,697.95	648.28	1,148.31	909.66	238.64	4.812		
15,500.00	7,806.83	7,779.83	7,779.83	157.47	156.06	90.00	-9,697.95	648.28	1,057.30	813.39	243.91	4.335		
15,600.00	7,806.82	7,779.82	7,779.82	159.20	156.06	90.00	-9,697.95	648.28	968.07	718.00	250.07	3.871		
15,700.00	7,806.82	7,779.82	7,779.82	160.93	156.06	90.00	-9,697.95	648.28	881.15	623.85	257.30	3.425		
15,800.00	7,806.82	7,779.82	7,779.82	162.67	156.06	90.00	-9,697.95	648.28	797.31	531.50	265.82	2.999		
15,900.00	7,806.82	7,779.82	7,779.82	164.40	156.06	90.00	-9,697.95	648.28	717.62	441.86	275.76	2.602		
16,000.00	7,806.81	7,779.81	7,779.81	166.14	156.06	90.00	-9,697.95	648.28	643.63	356.44	287.19	2.241		
16,100.00	7,806.81	7,779.81	7,779.81	167.87	156.06	90.00	-9,697.95	648.28	577.52	277.73	299.79	1.926		
16,200.00	7,806.81	7,779.81	7,779.81	169.61	156.06	90.00	-9,697.95	648.28	522.31	209.77	312.54	1.671		
16,300.00	7,806.81	7,779.81	7,779.81	171.35	156.06	90.00	-9,697.95	648.28	481.74	158.41	323.33	1.490	Level 3	
16,400.00	7,806.81	7,779.81	7,779.81	173.09	156.06	90.00	-9,697.95	648.28	459.73	130.60	329.13	1.397	Level 3	
16,453.63	7,806.80	7,779.80	7,779.80	174.02	156.06	90.00	-9,697.95	648.28	456.59	127.34	329.25	1.387	Level 3, CC, ES, SF	
16,500.00	7,806.80	7,779.80	7,779.80	174.83	156.06	90.00	-9,697.95	648.28	458.94	131.43	327.52	1.401	Level 3	
16,600.00	7,806.80	7,779.80	7,779.80	176.57	156.06	90.00	-9,697.95	648.28	479.48	160.83	318.65	1.505		
16,700.00	7,806.80	7,779.80	7,779.80	178.31	156.06	90.00	-9,697.95	648.28	518.82	213.61	305.21	1.700		
16,800.00	7,806.80	7,779.80	7,779.80	180.05	156.06	90.00	-9,697.95	648.28	573.11	282.75	290.35	1.974		
16,900.00	7,806.79	7,779.79	7,779.79	181.79	156.06	90.00	-9,697.95	648.28	638.53	362.34	276.19	2.312		
17,000.00	7,806.79	7,779.79	7,779.79	183.53	156.06	90.00	-9,697.95	648.28	712.04	448.37	263.67	2.701		
17,100.00	7,806.79	7,779.79	7,779.79	185.27	156.06	90.00	-9,697.95	648.28	791.38	538.39	252.98	3.128		
17,200.00	7,806.79	7,779.79	7,779.79	187.02	156.06	90.00	-9,697.95	648.28	874.96	630.94	244.02	3.586		
17,300.00	7,806.78	7,779.78	7,779.78	188.76	156.06	90.00	-9,697.95	648.28	961.68	725.15	236.53	4.066		
17,400.00	7,806.78	7,779.78	7,779.78	190.51	156.06	90.00	-9,697.95	648.28	1,050.76	820.49	230.27	4.563		
17,500.00	7,806.78	7,779.78	7,779.78	192.25	156.06	90.00	-9,697.95	648.28	1,141.65	916.61	225.04	5.073		
17,600.00	7,806.78	7,779.78	7,779.78	194.00	156.06	90.00	-9,697.95	648.28	1,233.96	1,013.32	220.64	5.593		
17,700.00	7,806.77	7,779.77	7,779.77	195.74	156.06	90.00	-9,697.95	648.28	1,327.37	1,110.45	216.92	6.119		
17,800.00	7,806.77	7,779.77	7,779.77	197.49	156.06	90.00	-9,697.95	648.28	1,421.69	1,207.92	213.77	6.650		
17,900.00	7,806.77	7,779.77	7,779.77	199.24	156.06	90.00	-9,697.95	648.28	1,516.73	1,305.64	211.09	7.185		
17,973.82	7,807.00	7,780.00	7,780.00	200.53	156.07	90.00	-9,697.95	648.28	1,587.23	1,377.88	209.35	7.582		
17,974.53	7,807.00	7,780.00	7,780.00	200.55	156.07	90.00	-9,697.95	648.28	1,587.92	1,376.13	211.78	7.498		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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

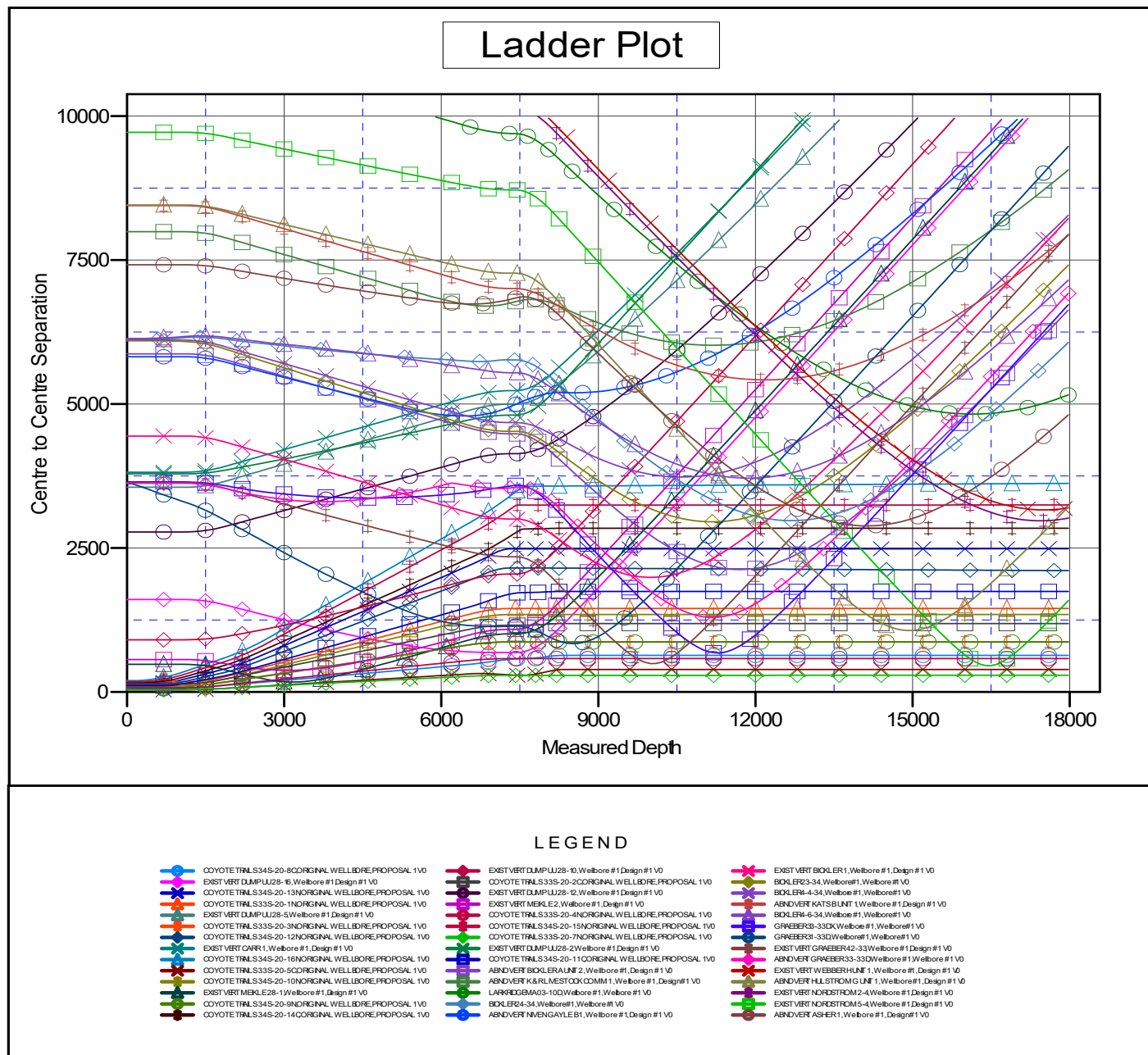
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-6N

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°



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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-6N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-6N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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

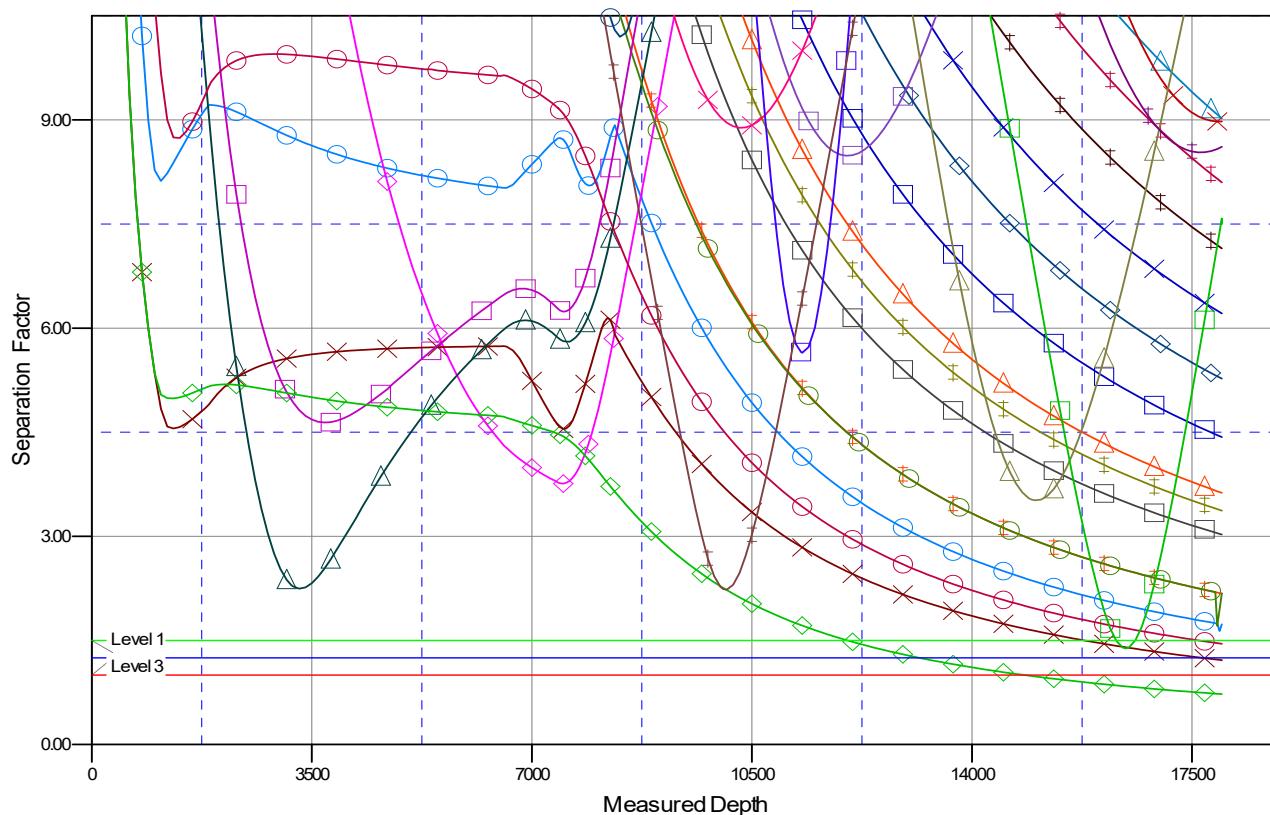
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-6N

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	EXISTVERT DUMPU28-10, Wellbore #1,Design #1 V0	EXISTVERT BOKLER1, Wellbore #1,Design #1 V0
EXISTVERT DUMPU28-15, Wellbore #1,Design #1 V0	COYOTETRLS33S-20-2CORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER23-34, Wellbore #1, Wellbore #1 V0
COYOTETRLS34S-20-13NORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT DUMPU28-12, Wellbore #1,Design #1 V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
COYOTETRLS33S-20-1NORIGINAL WELLBORE,PROPOSAL 1V0	EXISTVERT MEKLE2, Wellbore #1,Design #1 V0	ABNDVERT KATSBUNT 1, Wellbore #1,Design #1 V0
EXISTVERT DUMPU28-5, Wellbore #1,Design #1 V0	COYOTETRLS33S-20-4NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
COYOTETRLS33S-20-3NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRLS34S-20-15NORIGINAL WELLBORE,PROPOSAL 1V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
COYOTETRLS34S-20-12NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRLS33S-20-7NORIGINAL WELLBORE,PROPOSAL 1V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
EXISTVERT CARR1, Wellbore #1,Design #1 V0	EXISTVERT DUMPU28-2, Wellbore #1,Design #1 V0	EXISTVERT GRABER42-33, Wellbore #1,Design #1 V0
COYOTETRLS34S-20-16NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRLS34S-20-11CORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT GRABER33-33D, Wellbore #1,Design #1 V0
COYOTETRLS33S-20-5CORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT BOKLER4UN1 2, Wellbore #1,Design #1 V0	EXISTVERT WEBBERHUNT 1, Wellbore #1,Design #1 V0
COYOTETRLS34S-20-10NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT KARLWEST COCK COUW 1, Wellbore #1,Design #1 V0	ABNDVERT HULSTROM GUNT 1, Wellbore #1,Design #1 V0
EXISTVERT MEKLE28-1, Wellbore #1,Design #1 V0	EXISTVERT MEKLE28-10, Wellbore #1,Design #1 V0	EXISTVERT NORDSTROM 2-4, Wellbore #1,Design #1 V0
COYOTETRLS34S-20-9NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER24-34, Wellbore #1, Wellbore #1 V0	EXISTVERT NORDSTROM 5-4, Wellbore #1,Design #1 V0
COYOTETRLS34S-20-14CORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT NIVENGAYLEB1, Wellbore #1,Design #1 V0	ABNDVERT ASHER 1, Wellbore #1,Design #1 V0