

EXTRACTION OIL & GAS

Weld County

Sec 28-T1N-R68W

COYOTE TRAILS 33S-20-4N

ORIGINAL WELLBORE

PROPOSAL 1

Anticollision Report

29 November, 2017

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	17,898.34	PROPOSAL 1 (ORIGINAL WELLBORE)	MWD OWSG	OWSG MWD - Standard

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
Sec 28-T1N-R68W						
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	1,300.00	1,300.00	107.97	99.10	12.169	CC, ES
COYOTE TRAILS 33S-20-1N - ORIGINAL WELLBORE -	17,891.51	17,874.80	870.31	470.17	2.175	SF
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	1,300.00	1,300.00	71.98	63.11	8.113	CC, ES
COYOTE TRAILS 33S-20-2C - ORIGINAL WELLBORE -	17,898.35	18,124.67	636.30	264.04	1.709	SF
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	1,300.00	1,300.00	35.99	27.12	4.057	CC
COYOTE TRAILS 33S-20-3N - ORIGINAL WELLBORE -	17,898.35	17,880.03	290.00	-110.40	0.724	Level 1, ES, SF
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	1,200.00	1,200.00	35.99	27.83	4.413	CC, ES
COYOTE TRAILS 33S-20-5C - ORIGINAL WELLBORE -	17,898.35	18,182.31	390.18	76.11	1.242	Level 2, SF
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	1,100.00	1,100.00	71.98	64.54	9.677	CC, ES
COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE -	17,898.35	17,970.38	580.33	180.55	1.452	Level 3, SF
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	1,000.00	1,000.00	107.97	101.25	16.063	CC, ES
COYOTE TRAILS 33S-20-7N - ORIGINAL WELLBORE -	17,898.35	18,028.94	870.35	470.84	2.179	SF
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	700.00	700.00	161.95	157.38	35.434	CC, ES
COYOTE TRAILS 34S-20-10N - ORIGINAL WELLBORE	17,898.35	18,313.96	1,927.54	1,527.54	4.819	SF
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	600.00	600.00	179.95	176.10	46.697	CC, ES
COYOTE TRAILS 34S-20-11C - ORIGINAL WELLBORE	17,898.35	18,705.44	2,322.64	1,925.79	5.853	SF
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	500.00	500.00	197.94	194.80	63.106	CC, ES
COYOTE TRAILS 34S-20-12N - ORIGINAL WELLBORE	17,898.35	18,665.52	2,687.92	2,287.90	6.719	SF
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	400.00	400.00	215.94	213.52	89.242	CC, ES
COYOTE TRAILS 34S-20-13N - ORIGINAL WELLBORE	17,898.35	18,807.37	3,068.12	2,667.46	7.658	SF
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	300.00	300.00	233.93	232.23	137.386	CC, ES
COYOTE TRAILS 34S-20-14C - ORIGINAL WELLBORE	17,898.35	19,179.62	3,423.10	3,024.17	8.581	SF
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	200.00	200.00	251.93	250.94	255.557	CC, ES
COYOTE TRAILS 34S-20-15N - ORIGINAL WELLBORE	17,898.35	19,194.39	3,828.29	3,427.11	9.543	SF
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	100.00	100.00	269.92	269.65	1,003.976	CC, ES
COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE	17,898.35	19,351.31	4,203.26	3,801.58	10.464	SF
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	900.00	900.00	125.96	119.96	20.978	CC, ES
COYOTE TRAILS 34S-20-8C - ORIGINAL WELLBORE -	17,898.35	18,326.01	1,189.24	799.09	3.048	SF
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	800.00	800.00	143.96	138.67	27.226	CC, ES
COYOTE TRAILS 34S-20-9N - ORIGINAL WELLBORE -	17,898.35	18,159.55	1,450.59	1,050.82	3.629	SF
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,300.00	1,300.00	3,777.36	3,747.16	125.062	CC
EXIST VERT CARR 1 - Wellbore #1 - Design #1	1,400.00	1,400.02	3,779.10	3,746.54	116.070	ES
EXIST VERT CARR 1 - Wellbore #1 - Design #1	7,750.00	7,601.47	5,023.45	4,842.90	27.824	SF
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,300.00	1,319.00	926.63	896.11	30.355	CC
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	1,400.00	1,418.98	927.83	894.95	28.218	ES
EXIST VERT DUMP UU 28-10 - Wellbore #1 - Design #1	7,500.00	7,400.26	1,912.08	1,735.92	10.854	SF
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	1,300.00	1,308.00	2,711.67	2,681.34	89.391	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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	1,400.00	1,408.02	2,712.97	2,680.28	82.993	ES
EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1	7,750.00	7,606.53	3,708.20	3,525.69	20.318	SF
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,351.07	7,250.00	1,168.46	990.75	6.575	CC
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,400.00	7,301.13	1,169.35	990.45	6.536	ES
EXIST VERT DUMP UU 28-16 - Wellbore #1 - Design #1	7,600.00	7,508.83	1,191.96	1,007.87	6.475	SF
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,300.00	1,272.00	3,795.21	3,765.60	128.173	CC
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	1,400.00	1,371.98	3,796.63	3,764.67	118.776	ES
EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1	7,650.00	7,508.45	4,842.39	4,662.97	26.989	SF
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,300.00	1,323.00	3,501.35	3,470.71	114.286	CC
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	1,400.00	1,422.98	3,503.00	3,470.01	106.181	ES
EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1	7,850.00	7,704.77	4,739.86	4,556.29	25.820	SF
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,105.89	3,077.03	550.94	477.48	7.500	CC
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	3,400.00	3,364.43	554.47	473.83	6.876	ES
EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1	7,450.00	7,335.44	992.48	816.63	5.644	SF
EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1	4,031.87	3,961.89	37.75	-58.03	0.394	Level 1, CC, ES, SF
Sec 33-T1N-R68W						
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	10,900.00	7,178.00	1,042.68	989.17	19.485	SF
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,100.00	7,178.00	1,022.45	970.24	19.581	ES
ABND VERT GRAEBER 33-33D - Wellbore #1 - Wellbor	11,104.45	7,178.00	1,022.44	970.24	19.586	CC
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	9,973.07	7,768.97	1,073.07	853.14	4.879	CC
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,000.00	7,768.97	1,073.40	852.87	4.867	ES
EXIST VERT GRAEBER 42-33 - Wellbore #1 - Design #1	10,100.00	7,768.97	1,080.55	858.03	4.856	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,400.00	8,093.21	266.07	182.43	3.181	SF
GRAEBER 31-33D - Wellbore #1 - Wellbore #1	8,456.39	8,093.48	260.02	179.06	3.212	CC, ES
GRAEBER 33-33DX - Wellbore #1 - Wellbore #1	11,214.13	8,060.77	102.75	-17.05	0.858	Level 1, CC, ES, SF

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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	11,622.63	7,746.95	2,705.81	2,459.12	10.969	CC
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	11,700.00	7,746.95	2,706.92	2,458.72	10.906	ES
ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design	12,100.00	7,746.94	2,747.60	2,492.73	10.780	SF
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,127.54	5,503.00	6,564.29	6,381.11	35.834	CC
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	11,200.00	5,503.00	6,564.69	6,380.28	35.598	ES
ABND VERT K & R LIVESTOCK COMM 1 - Wellbore #1	13,700.00	5,503.00	7,050.35	6,829.65	31.946	SF
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,114.44	7,702.94	6,000.26	5,746.12	23.610	CC
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	12,200.00	7,702.94	6,000.87	5,745.16	23.467	ES
ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1	13,900.00	7,702.91	6,260.30	5,978.11	22.185	SF
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	6,023.21	5,145.00	5,307.17	5,180.20	41.797	CC, ES
ABND VERT NIVEN GAYLE B 1 - Wellbore #1 - Design	11,200.00	5,145.00	6,332.67	6,165.20	37.813	SF
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,105.60	7,755.00	3,535.93	3,424.74	31.801	CC
BICKLER 23-34 - Wellbore #1 - Wellbore #1	11,200.00	7,755.00	3,537.19	3,424.30	31.333	ES
BICKLER 23-34 - Wellbore #1 - Wellbore #1	12,200.00	7,764.81	3,701.40	3,573.98	29.049	SF
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,613.96	7,962.00	3,555.50	3,404.04	23.475	CC
BICKLER 24-34 - Wellbore #1 - Wellbore #1	12,700.00	7,962.00	3,556.54	3,403.61	23.256	ES
BICKLER 24-34 - Wellbore #1 - Wellbore #1	13,400.00	7,960.28	3,641.35	3,479.23	22.462	SF
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,514.09	7,648.44	4,314.03	4,216.15	44.077	CC
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	10,600.00	7,650.18	4,314.88	4,215.45	43.396	ES
BICKLER 4-4-34 - Wellbore #1 - Wellbore #1	12,300.00	7,678.65	4,668.98	4,545.04	37.674	SF
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,792.42	7,772.30	4,294.18	4,166.59	33.656	CC
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	11,900.00	7,772.16	4,295.52	4,165.91	33.141	ES
BICKLER 4-6-34 - Wellbore #1 - Wellbore #1	13,200.00	7,770.41	4,518.99	4,370.36	30.405	SF
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	9,926.12	7,809.97	2,570.87	2,350.84	11.684	CC
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,000.00	7,809.97	2,571.93	2,350.53	11.616	ES
EXIST VERT BICKLER 1 - Wellbore #1 - Design #1	10,400.00	7,809.97	2,614.18	2,386.06	11.459	SF
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,077.70	8,040.64	5,406.64	5,208.82	27.332	CC
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	16,200.00	8,041.01	5,408.02	5,207.95	27.030	ES
LARKRIDGE MA 03-10D - Wellbore #1 - Wellbore #1	17,600.00	8,045.27	5,616.86	5,396.45	25.484	SF
Sec 3-T1S-R68W						
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,436.73	7,771.86	3,743.44	3,395.53	10.760	CC
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,500.00	7,771.86	3,743.98	3,394.83	10.723	ES
EXIST VERT WEBBER H UNIT 1 - Wellbore #1 - Design	17,898.35	7,772.00	3,771.79	3,416.16	10.606	SF
Sec 4-T1N-R68W						
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,053.55	5,625.00	2,545.23	2,407.63	18.497	CC, ES
ABND VERT ASHER 1 - Wellbore #1 - Design #1	14,600.00	5,625.00	2,603.23	2,460.39	18.225	SF
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,869.11	7,753.90	1,648.56	1,345.89	5.447	CC
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	14,900.00	7,753.90	1,648.85	1,345.50	5.436	ES
ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Des	15,000.00	7,753.90	1,653.75	1,348.55	5.419	SF
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,370.98	7,815.86	2,392.40	2,044.76	6.882	CC
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,400.00	7,815.86	2,392.58	2,044.55	6.875	ES
EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #	17,500.00	7,815.86	2,395.88	2,046.72	6.862	SF
EXIST VERT NORDSTROM 5-4 - Wellbore #1 - Design #	16,382.80	7,779.87	123.82	-205.76	0.376	Level 1, 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				Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	-89.69	0.59	-107.97	107.97					
100.00	100.00	100.00	100.00	0.13	0.13	-89.69	0.59	-107.97	107.97	107.70	0.27	401.592		
200.00	200.00	200.00	200.00	0.49	0.49	-89.69	0.59	-107.97	107.97	106.98	0.99	109.525		
300.00	300.00	300.00	300.00	0.85	0.85	-89.69	0.59	-107.97	107.97	106.27	1.70	63.409		
400.00	400.00	400.00	400.00	1.21	1.21	-89.69	0.59	-107.97	107.97	105.55	2.42	44.621		
500.00	500.00	500.00	500.00	1.57	1.57	-89.69	0.59	-107.97	107.97	104.83	3.14	34.422		
600.00	600.00	600.00	600.00	1.93	1.93	-89.69	0.59	-107.97	107.97	104.12	3.85	28.018		
700.00	700.00	700.00	700.00	2.29	2.29	-89.69	0.59	-107.97	107.97	103.40	4.57	23.623		
800.00	800.00	800.00	800.00	2.64	2.64	-89.69	0.59	-107.97	107.97	102.68	5.29	20.420		
900.00	900.00	900.00	900.00	3.00	3.00	-89.69	0.59	-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	-89.69	0.59	-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	-89.69	0.59	-107.97	107.97	100.53	7.44	14.515		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-89.69	0.59	-107.97	107.97	99.81	8.16	13.239		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-89.69	0.59	-107.97	107.97	99.10	8.87	12.169 CC, ES		
1,400.00	1,399.98	1,400.02	1,399.98	4.78	4.79	-89.69	0.59	-107.97	108.83	99.26	9.57	11.369		
1,500.00	1,499.84	1,500.16	1,499.84	5.11	5.15	122.09	0.59	-107.97	111.52	101.26	10.26	10.871		
1,600.00	1,599.45	1,599.55	1,599.45	5.44	5.51	125.64	0.59	-107.97	116.39	105.45	10.95	10.631		
1,700.00	1,698.70	1,698.62	1,698.60	5.79	5.85	129.30	-1.07	-108.33	123.94	112.32	11.63	10.660		
1,800.00	1,797.47	1,797.89	1,797.73	6.15	6.17	132.12	-6.08	-109.41	134.21	121.91	12.30	10.913		
1,900.00	1,895.62	1,897.16	1,896.63	6.53	6.50	134.11	-14.46	-111.22	146.97	133.99	12.98	11.320		
1,912.93	1,908.27	1,910.00	1,909.39	6.58	6.54	134.31	-15.78	-111.51	148.80	135.72	13.08	11.380		
2,000.00	1,993.35	1,996.52	1,995.25	6.93	6.83	135.23	-26.18	-113.76	161.13	147.44	13.69	11.772		
2,100.00	2,091.07	2,096.04	2,093.57	7.34	7.18	135.06	-41.28	-117.03	175.05	160.63	14.41	12.143		
2,200.00	2,188.79	2,204.54	2,191.18	7.77	7.58	133.87	-59.66	-121.01	188.72	173.51	15.20	12.412		
2,300.00	2,286.51	2,305.60	2,288.05	8.20	7.97	132.43	-79.34	-125.27	202.40	186.40	16.00	12.653		
2,400.00	2,384.23	2,406.66	2,384.92	8.65	8.37	131.17	-99.01	-129.52	216.19	199.38	16.81	12.862		
2,500.00	2,481.95	2,507.72	2,481.79	9.10	8.78	130.07	-118.69	-133.78	230.07	212.43	17.64	13.043		
2,600.00	2,579.67	2,591.22	2,578.67	9.56	9.13	129.09	-138.37	-138.04	244.02	225.61	18.41	13.253		
2,700.00	2,677.39	2,709.84	2,675.54	10.02	9.63	128.22	-158.04	-142.30	258.04	238.69	19.35	13.337		
2,800.00	2,775.11	2,789.10	2,772.41	10.49	9.97	127.44	-177.72	-146.56	272.11	251.98	20.13	13.520		
2,900.00	2,872.83	2,888.04	2,869.28	10.96	10.40	126.73	-197.39	-150.81	286.22	265.22	21.00	13.629		
3,000.00	2,970.55	2,986.98	2,966.15	11.44	10.84	126.09	-217.07	-155.07	300.38	278.49	21.88	13.726		
3,100.00	3,068.27	3,085.92	3,063.02	11.92	11.28	125.51	-236.75	-159.33	314.56	291.79	22.78	13.812		
3,200.00	3,165.99	3,184.86	3,159.89	12.40	11.73	124.98	-256.42	-163.59	328.78	305.10	23.67	13.888		
3,300.00	3,263.71	3,283.80	3,256.76	12.88	12.18	124.49	-276.10	-167.84	343.02	318.44	24.58	13.955		
3,400.00	3,361.43	3,382.74	3,353.63	13.37	12.63	124.05	-295.77	-172.10	357.28	331.79	25.49	14.016		
3,500.00	3,459.15	3,481.68	3,450.50	13.86	13.09	123.63	-315.45	-176.36	371.56	345.16	26.41	14.070		
3,600.00	3,556.87	3,580.62	3,547.37	14.35	13.55	123.25	-335.13	-180.62	385.86	358.54	27.33	14.119		
3,700.00	3,654.59	3,679.56	3,644.24	14.84	14.01	122.89	-354.80	-184.88	400.18	371.93	28.25	14.164		
3,800.00	3,752.31	3,778.51	3,741.11	15.34	14.48	122.56	-374.48	-189.13	414.51	385.33	29.18	14.204		
3,900.00	3,850.03	3,877.45	3,837.98	15.83	14.94	122.25	-394.15	-193.39	428.85	398.74	30.12	14.240		
4,000.00	3,947.75	3,976.39	3,934.85	16.33	15.41	121.96	-413.83	-197.65	443.21	412.16	31.05	14.273		
4,100.00	4,045.47	4,075.33	4,031.73	16.83	15.88	121.69	-433.51	-201.91	457.57	425.58	31.99	14.303		
4,200.00	4,143.19	4,174.27	4,128.60	17.32	16.35	121.44	-453.18	-206.17	471.95	439.02	32.93	14.331		
4,300.00	4,240.91	4,273.21	4,225.47	17.82	16.83	121.20	-472.86	-210.42	486.33	452.45	33.88	14.357		
4,400.00	4,338.63	4,372.15	4,322.34	18.32	17.30	120.97	-492.54	-214.68	500.72	465.90	34.82	14.380		
4,500.00	4,436.35	4,471.09	4,419.21	18.82	17.78	120.76	-512.21	-218.94	515.12	479.35	35.77	14.401		
4,600.00	4,534.07	4,570.03	4,516.08	19.33	18.25	120.56	-531.89	-223.20	529.52	492.80	36.72	14.421		
4,700.00	4,631.79	4,668.97	4,612.95	19.83	18.73	120.37	-551.56	-227.46	543.93	506.26	37.67	14.440		
4,800.00	4,729.51	4,767.91	4,709.82	20.33	19.21	120.19	-571.24	-231.71	558.35	519.73	38.62	14.457		
4,900.00	4,827.23	4,866.85	4,806.69	20.83	19.69	120.01	-590.92	-235.97	572.77	533.19	39.58	14.472		
5,000.00	4,924.95	4,965.79	4,903.56	21.34	20.17	119.85	-610.59	-240.23	587.20	546.66	40.53	14.487		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,064.73	5,000.43	21.84	20.65	119.69	-630.27	-244.49	601.63	560.14	41.49	14.501		
5,200.00	5,120.39	5,163.67	5,097.30	22.35	21.13	119.55	-649.94	-248.75	616.06	573.61	42.45	14.513		
5,300.00	5,218.11	5,262.61	5,194.17	22.85	21.61	119.40	-669.62	-253.00	630.50	587.09	43.41	14.525		
5,400.00	5,315.83	5,361.55	5,291.04	23.36	22.10	119.27	-689.30	-257.26	644.94	600.57	44.37	14.536		
5,500.00	5,413.55	5,460.49	5,387.92	23.86	22.58	119.14	-708.97	-261.52	659.39	614.06	45.33	14.547		
5,600.00	5,511.27	5,559.43	5,484.79	24.37	23.06	119.02	-728.65	-265.78	673.84	627.54	46.29	14.557		
5,700.00	5,608.99	5,658.37	5,581.66	24.88	23.55	118.90	-748.32	-270.04	688.29	641.03	47.25	14.566		
5,800.00	5,706.71	5,757.31	5,678.53	25.38	24.03	118.78	-768.00	-274.29	702.74	654.52	48.22	14.574		
5,900.00	5,804.43	5,856.25	5,775.40	25.89	24.52	118.67	-787.68	-278.55	717.20	668.02	49.18	14.583		
6,000.00	5,902.15	5,955.19	5,872.27	26.40	25.01	118.57	-807.35	-282.81	731.66	681.51	50.15	14.590		
6,100.00	5,999.87	6,054.13	5,969.14	26.91	25.49	118.47	-827.03	-287.07	746.12	695.01	51.11	14.597		
6,200.00	6,097.59	6,153.08	6,066.01	27.42	25.98	118.37	-846.70	-291.33	760.58	708.50	52.08	14.604		
6,300.00	6,195.30	6,252.02	6,162.88	27.92	26.47	118.28	-866.38	-295.58	775.05	722.00	53.05	14.611		
6,400.00	6,293.02	6,350.96	6,259.75	28.43	26.95	118.19	-886.06	-299.84	789.52	735.50	54.01	14.617		
6,500.00	6,390.74	6,449.90	6,356.62	28.94	27.44	118.10	-905.73	-304.10	803.99	749.00	54.98	14.623		
6,600.00	6,488.46	6,548.84	6,453.49	29.45	27.93	118.02	-925.41	-308.36	818.46	762.51	55.95	14.628		
6,638.14	6,525.73	6,586.57	6,490.44	29.64	28.12	117.99	-932.91	-309.98	823.98	767.66	56.32	14.630		
6,700.00	6,586.32	6,647.81	6,550.40	29.95	28.42	118.05	-945.09	-312.62	832.62	775.70	56.92	14.629		
6,800.00	6,684.79	6,753.59	6,654.33	30.42	28.92	118.06	-964.28	-316.77	844.90	787.00	57.89	14.594		
6,900.00	6,783.81	6,859.91	6,759.46	30.85	29.39	118.08	-979.77	-320.12	854.76	795.95	58.81	14.535		
7,000.00	6,883.25	6,966.62	6,865.48	31.24	29.82	118.09	-991.48	-322.66	862.18	802.54	59.65	14.455		
7,100.00	6,983.00	7,073.61	6,972.17	31.60	30.21	118.09	-999.34	-324.35	867.15	806.74	60.41	14.354		
7,200.00	7,082.93	7,180.77	7,079.25	31.92	30.57	118.10	-1,003.29	-325.21	869.65	808.54	61.10	14.232		
7,251.07	7,134.00	7,235.53	7,134.00	32.06	30.73	-90.61	-1,003.81	-325.32	869.97	808.55	61.42	14.164		
7,300.00	7,182.93	7,284.46	7,182.93	32.19	30.86	-90.61	-1,003.81	-325.32	869.97	808.29	61.68	14.104		
7,351.07	7,234.00	7,335.53	7,234.00	32.32	31.00	-90.61	-1,003.81	-325.32	869.97	808.02	61.96	14.042		
7,354.60	7,237.53	7,339.06	7,237.53	32.33	31.01	89.73	-1,003.81	-325.32	869.97	807.99	61.98	14.037		
7,400.00	7,282.87	7,384.11	7,282.52	32.47	31.16	89.73	-1,005.86	-325.31	869.97	807.69	62.28	13.969		
7,450.00	7,332.44	7,433.76	7,331.75	32.67	31.37	89.74	-1,012.21	-325.27	869.97	807.28	62.69	13.877		
7,500.00	7,381.26	7,483.41	7,380.25	32.90	31.62	89.74	-1,022.78	-325.21	869.97	806.79	63.18	13.770		
7,550.00	7,428.96	7,533.07	7,427.66	33.18	31.90	89.75	-1,037.52	-325.12	869.97	806.23	63.74	13.648		
7,600.00	7,475.17	7,582.75	7,473.62	33.48	32.22	89.76	-1,056.31	-325.01	869.97	805.59	64.38	13.512		
7,650.00	7,519.55	7,632.43	7,517.79	33.82	32.57	89.77	-1,079.02	-324.88	869.97	804.88	65.09	13.365		
7,700.00	7,561.76	7,682.13	7,559.85	34.20	32.96	89.78	-1,105.47	-324.72	869.97	804.11	65.87	13.208		
7,750.00	7,601.47	7,731.85	7,599.47	34.60	33.38	89.80	-1,135.48	-324.55	869.98	803.26	66.71	13.041		
7,800.00	7,638.39	7,781.58	7,636.35	35.04	33.83	89.81	-1,168.83	-324.35	869.98	802.36	67.62	12.867		
7,850.00	7,672.23	7,831.34	7,670.22	35.50	34.31	89.83	-1,205.26	-324.13	869.98	801.40	68.58	12.686		
7,900.00	7,702.74	7,881.12	7,700.81	35.99	34.82	89.85	-1,244.51	-323.90	869.98	800.38	69.60	12.500		
7,950.00	7,729.67	7,930.93	7,727.89	36.50	35.35	89.87	-1,286.29	-323.66	869.98	799.31	70.67	12.311		
8,000.00	7,752.84	7,980.76	7,751.26	37.04	35.91	89.89	-1,330.29	-323.40	869.98	798.20	71.78	12.120		
8,050.00	7,772.06	8,030.62	7,770.73	37.60	36.49	89.91	-1,376.17	-323.13	869.98	797.05	72.93	11.928		
8,100.00	7,787.18	8,080.51	7,786.14	38.17	37.08	89.93	-1,423.60	-322.85	869.99	795.87	74.12	11.738		
8,150.00	7,798.10	8,130.43	7,797.38	38.76	37.69	89.95	-1,472.23	-322.56	869.99	794.66	75.33	11.549		
8,200.00	7,804.72	8,180.38	7,804.34	39.36	38.30	89.98	-1,521.67	-322.27	869.99	793.44	76.56	11.364		
8,251.15	7,807.00	8,239.71	7,807.00	39.97	39.04	90.00	-1,572.71	-321.97	870.00	792.07	77.92	11.165		
8,300.00	7,807.00	8,280.36	7,807.00	40.56	39.55	90.00	-1,621.56	-321.68	870.00	790.96	79.04	11.008		
8,400.00	7,807.00	8,380.36	7,807.00	41.80	40.83	90.00	-1,721.56	-321.09	870.00	788.42	81.59	10.663		
8,500.00	7,807.00	8,480.36	7,806.99	43.08	42.14	90.00	-1,821.56	-320.50	870.01	785.80	84.21	10.331		
8,600.00	7,806.99	8,580.36	7,806.99	44.40	43.49	90.00	-1,921.56	-319.91	870.02	783.12	86.90	10.012		
8,700.00	7,806.99	8,680.36	7,806.99	45.74	44.87	90.00	-2,021.56	-319.32	870.02	780.37	89.65	9.705		
8,800.00	7,806.99	8,780.36	7,806.99	47.11	46.27	90.00	-2,121.56	-318.73	870.03	777.58	92.45	9.411		
8,900.00	7,806.99	8,880.36	7,806.99	48.51	47.70	90.00	-2,221.55	-318.14	870.03	774.73	95.30	9.129		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	8,980.36	7,806.98	49.93	49.16	90.00	-2,321.55	-317.55	870.04	771.84	98.20	8.860		
9,100.00	7,806.99	9,080.36	7,806.98	51.38	50.63	90.00	-2,421.55	-316.96	870.04	768.91	101.14	8.603		
9,200.00	7,806.99	9,180.36	7,806.98	52.84	52.12	90.00	-2,521.55	-316.37	870.05	765.94	104.11	8.357		
9,300.00	7,806.98	9,280.36	7,806.98	54.32	53.63	90.00	-2,621.55	-315.78	870.06	762.93	107.13	8.122		
9,400.00	7,806.98	9,380.36	7,806.97	55.82	55.15	90.00	-2,721.55	-315.19	870.06	759.89	110.17	7.898		
9,500.00	7,806.98	9,480.36	7,806.97	57.34	56.69	90.00	-2,821.54	-314.60	870.07	756.83	113.24	7.683		
9,600.00	7,806.98	9,580.36	7,806.97	58.87	58.24	90.00	-2,921.54	-314.01	870.07	753.73	116.34	7.479		
9,700.00	7,806.98	9,680.36	7,806.97	60.41	59.81	90.00	-3,021.54	-313.42	870.08	750.61	119.46	7.283		
9,800.00	7,806.98	9,780.36	7,806.96	61.96	61.38	90.00	-3,121.54	-312.83	870.09	747.47	122.61	7.096		
9,900.00	7,806.97	9,880.36	7,806.96	63.53	62.97	90.00	-3,221.54	-312.24	870.09	744.31	125.78	6.918		
10,000.00	7,806.97	9,980.36	7,806.96	65.10	64.56	90.00	-3,321.54	-311.65	870.10	741.13	128.97	6.747		
10,100.00	7,806.97	10,080.36	7,806.96	66.69	66.17	90.00	-3,421.53	-311.06	870.10	737.93	132.18	6.583		
10,200.00	7,806.97	10,180.36	7,806.95	68.29	67.78	90.00	-3,521.53	-310.47	870.11	734.71	135.40	6.426		
10,300.00	7,806.97	10,280.36	7,806.95	69.89	69.40	90.00	-3,621.53	-309.88	870.12	731.48	138.64	6.276		
10,400.00	7,806.97	10,380.36	7,806.95	71.50	71.03	90.00	-3,721.53	-309.29	870.12	728.23	141.89	6.132		
10,500.00	7,806.97	10,480.36	7,806.95	73.12	72.66	90.00	-3,821.53	-308.70	870.13	724.97	145.16	5.994		
10,600.00	7,806.96	10,580.36	7,806.95	74.75	74.31	90.00	-3,921.52	-308.11	870.13	721.69	148.44	5.862		
10,700.00	7,806.96	10,680.36	7,806.94	76.38	75.95	90.00	-4,021.52	-307.52	870.14	718.40	151.73	5.735		
10,800.00	7,806.96	10,780.36	7,806.94	78.02	77.61	90.00	-4,121.52	-306.93	870.14	715.11	155.04	5.612		
10,900.00	7,806.96	10,880.36	7,806.94	79.66	79.26	90.00	-4,221.52	-306.34	870.15	711.80	158.35	5.495		
11,000.00	7,806.96	10,980.36	7,806.94	81.31	80.93	90.00	-4,321.52	-305.75	870.16	708.48	161.68	5.382		
11,100.00	7,806.96	11,080.36	7,806.93	82.97	82.60	90.00	-4,421.52	-305.16	870.16	705.15	165.01	5.273		
11,200.00	7,806.95	11,180.36	7,806.93	84.63	84.27	90.00	-4,521.51	-304.57	870.17	701.82	168.35	5.169		
11,300.00	7,806.95	11,280.36	7,806.93	86.29	85.94	90.00	-4,621.51	-303.98	870.17	698.47	171.70	5.068		
11,400.00	7,806.95	11,380.36	7,806.93	87.96	87.62	90.00	-4,721.51	-303.39	870.18	695.12	175.06	4.971		
11,500.00	7,806.95	11,480.36	7,806.92	89.64	89.31	90.00	-4,821.51	-302.80	870.19	691.76	178.43	4.877		
11,600.00	7,806.95	11,580.36	7,806.92	91.31	90.99	90.00	-4,921.51	-302.21	870.19	688.39	181.80	4.787		
11,700.00	7,806.95	11,680.36	7,806.92	92.99	92.68	90.00	-5,021.51	-301.62	870.20	685.02	185.18	4.699		
11,800.00	7,806.95	11,780.36	7,806.92	94.68	94.38	90.00	-5,121.50	-301.03	870.20	681.64	188.56	4.615		
11,900.00	7,806.94	11,880.36	7,806.91	96.36	96.07	90.00	-5,221.50	-300.44	870.21	678.26	191.95	4.533		
12,000.00	7,806.94	11,980.36	7,806.91	98.05	97.77	90.00	-5,321.50	-299.85	870.21	674.87	195.35	4.455		
12,100.00	7,806.94	12,080.36	7,806.91	99.74	99.47	90.00	-5,421.50	-299.26	870.22	671.47	198.75	4.378		
12,200.00	7,806.94	12,180.36	7,806.91	101.44	101.18	90.00	-5,521.50	-298.67	870.23	668.07	202.16	4.305		
12,300.00	7,806.94	12,280.36	7,806.91	103.14	102.88	90.00	-5,621.50	-298.08	870.23	664.66	205.57	4.233		
12,400.00	7,806.94	12,380.36	7,806.90	104.84	104.59	90.00	-5,721.49	-297.49	870.24	661.25	208.98	4.164		
12,500.00	7,806.93	12,480.36	7,806.90	106.54	106.30	90.00	-5,821.49	-296.90	870.24	657.84	212.40	4.097		
12,600.00	7,806.93	12,580.36	7,806.90	108.25	108.01	90.00	-5,921.49	-296.31	870.25	654.42	215.83	4.032		
12,700.00	7,806.93	12,680.36	7,806.90	109.95	109.73	90.00	-6,021.49	-295.72	870.26	651.00	219.26	3.969		
12,800.00	7,806.93	12,780.36	7,806.89	111.66	111.44	90.00	-6,121.49	-295.13	870.26	647.57	222.69	3.908		
12,900.00	7,806.93	12,880.36	7,806.89	113.37	113.16	90.00	-6,221.48	-294.54	870.27	644.14	226.12	3.849		
13,000.00	7,806.93	12,980.36	7,806.89	115.09	114.88	90.00	-6,321.48	-293.95	870.27	640.71	229.56	3.791		
13,100.00	7,806.93	13,080.36	7,806.89	116.80	116.60	90.00	-6,421.48	-293.36	870.28	637.27	233.00	3.735		
13,200.00	7,806.92	13,180.36	7,806.88	118.52	118.33	90.00	-6,521.48	-292.77	870.28	633.83	236.45	3.681		
13,300.00	7,806.92	13,280.36	7,806.88	120.24	120.05	90.00	-6,621.48	-292.18	870.29	630.39	239.90	3.628		
13,400.00	7,806.92	13,380.36	7,806.88	121.96	121.78	90.00	-6,721.48	-291.59	870.30	626.95	243.35	3.576		
13,500.00	7,806.92	13,480.36	7,806.88	123.68	123.50	90.00	-6,821.47	-291.00	870.30	623.50	246.80	3.526		
13,600.00	7,806.92	13,580.36	7,806.87	125.40	125.23	90.00	-6,921.47	-290.41	870.31	620.05	250.26	3.478		
13,700.00	7,806.92	13,680.36	7,806.87	127.12	126.96	90.00	-7,021.47	-289.82	870.31	616.60	253.72	3.430		
13,800.00	7,806.91	13,780.36	7,806.87	128.85	128.69	90.00	-7,121.47	-289.23	870.32	613.14	257.18	3.384		
13,900.00	7,806.91	13,880.36	7,806.87	130.58	130.42	90.00	-7,221.47	-288.64	870.33	609.68	260.64	3.339		
14,000.00	7,806.91	13,980.36	7,806.87	132.30	132.16	90.00	-7,321.47	-288.05	870.33	606.22	264.11	3.295		
14,100.00	7,806.91	14,080.36	7,806.86	134.03	133.89	90.00	-7,421.46	-287.46	870.34	602.76	267.58	3.253		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
							+N/-S (usft)	+E/-W (usft)								
14,200.00	7,806.91	14,180.36	7,806.86	135.76	135.63	90.00	-7,521.46	-286.87	870.34	599.30	271.04	3.211				
14,300.00	7,806.91	14,280.36	7,806.86	137.50	137.36	90.00	-7,621.46	-286.28	870.35	595.83	274.52	3.170				
14,400.00	7,806.91	14,380.36	7,806.86	139.23	139.10	90.00	-7,721.46	-285.69	870.35	592.36	277.99	3.131				
14,500.00	7,806.90	14,480.36	7,806.85	140.96	140.84	90.00	-7,821.46	-285.10	870.36	588.89	281.47	3.092				
14,600.00	7,806.90	14,580.36	7,806.85	142.70	142.58	90.00	-7,921.46	-284.51	870.37	585.42	284.94	3.055				
14,700.00	7,806.90	14,680.36	7,806.85	144.43	144.32	90.00	-8,021.45	-283.92	870.37	581.95	288.42	3.018				
14,800.00	7,806.90	14,780.36	7,806.85	146.17	146.06	90.00	-8,121.45	-283.33	870.38	578.48	291.90	2.982				
14,900.00	7,806.90	14,880.36	7,806.84	147.91	147.80	90.00	-8,221.45	-282.74	870.38	575.00	295.38	2.947				
15,000.00	7,806.90	14,980.36	7,806.84	149.64	149.54	90.00	-8,321.45	-282.15	870.39	571.52	298.87	2.912				
15,100.00	7,806.89	15,080.36	7,806.84	151.38	151.28	90.00	-8,421.45	-281.56	870.40	568.04	302.35	2.879				
15,200.00	7,806.89	15,180.36	7,806.84	153.12	153.03	90.00	-8,521.44	-280.97	870.40	564.56	305.84	2.846				
15,300.00	7,806.89	15,280.36	7,806.83	154.86	154.77	90.00	-8,621.44	-280.38	870.41	561.08	309.33	2.814				
15,400.00	7,806.89	15,380.36	7,806.83	156.60	156.52	90.00	-8,721.44	-279.79	870.41	557.60	312.82	2.782				
15,500.00	7,806.89	15,480.36	7,806.83	158.35	158.26	90.00	-8,821.44	-279.20	870.42	554.11	316.31	2.752				
15,600.00	7,806.89	15,580.36	7,806.83	160.09	160.01	90.00	-8,921.44	-278.61	870.42	550.63	319.80	2.722				
15,700.00	7,806.89	15,680.36	7,806.83	161.83	161.75	90.00	-9,021.44	-278.02	870.43	547.14	323.29	2.692				
15,800.00	7,806.88	15,780.36	7,806.82	163.57	163.50	90.00	-9,121.43	-277.43	870.44	543.65	326.79	2.664				
15,900.00	7,806.88	15,880.36	7,806.82	165.32	165.25	90.00	-9,221.43	-276.84	870.44	540.16	330.28	2.635				
16,000.00	7,806.88	15,980.36	7,806.82	167.06	167.00	90.00	-9,321.43	-276.25	870.45	536.67	333.78	2.608				
16,100.00	7,806.88	16,080.36	7,806.82	168.81	168.75	90.00	-9,421.43	-275.66	870.45	533.18	337.28	2.581				
16,200.00	7,806.88	16,180.36	7,806.81	170.56	170.49	90.00	-9,521.43	-275.07	870.46	529.69	340.77	2.554				
16,300.00	7,806.88	16,280.36	7,806.81	172.30	172.24	90.00	-9,621.43	-274.48	870.47	526.19	344.27	2.528				
16,400.00	7,806.87	16,380.36	7,806.81	174.05	174.00	90.00	-9,721.42	-273.89	870.47	522.70	347.77	2.503				
16,500.00	7,806.87	16,480.36	7,806.81	175.80	175.75	90.00	-9,821.42	-273.30	870.48	519.20	351.27	2.478				
16,600.00	7,806.87	16,580.36	7,806.80	177.55	177.50	90.00	-9,921.42	-272.71	870.48	515.71	354.78	2.454				
16,700.00	7,806.87	16,680.36	7,806.80	179.30	179.25	90.00	-10,021.42	-272.12	870.49	512.21	358.28	2.430				
16,800.00	7,806.87	16,780.36	7,806.80	181.04	181.00	90.00	-10,121.42	-271.53	870.49	508.71	361.78	2.406				
16,900.00	7,806.87	16,880.36	7,806.80	182.79	182.75	90.00	-10,221.42	-270.94	870.50	505.21	365.29	2.383				
17,000.00	7,806.87	16,980.36	7,806.79	184.54	184.51	90.00	-10,321.41	-270.35	870.51	501.71	368.79	2.360				
17,100.00	7,806.86	17,080.36	7,806.79	186.30	186.26	90.00	-10,421.41	-269.76	870.51	498.21	372.30	2.338				
17,200.00	7,806.86	17,180.36	7,806.79	188.05	188.01	90.00	-10,521.41	-269.17	870.52	494.71	375.81	2.316				
17,300.00	7,806.86	17,280.36	7,806.79	189.80	189.77	90.00	-10,621.41	-268.58	870.52	491.21	379.32	2.295				
17,400.00	7,806.86	17,380.36	7,806.79	191.55	191.52	90.00	-10,721.41	-267.99	870.53	487.71	382.82	2.274				
17,500.00	7,806.86	17,480.36	7,806.78	193.30	193.28	90.00	-10,821.40	-267.40	870.54	484.20	386.33	2.253				
17,600.00	7,806.86	17,580.36	7,806.78	195.06	195.03	90.00	-10,921.40	-266.81	870.54	480.70	389.84	2.233				
17,700.00	7,806.85	17,680.36	7,806.78	196.81	196.79	89.99	-11,021.40	-266.22	870.55	477.19	393.35	2.213				
17,800.00	7,806.85	17,780.36	7,806.78	198.56	198.54	89.99	-11,121.40	-265.63	870.55	473.69	396.86	2.194				
17,891.51	7,806.85	17,874.80	7,807.01	200.17	200.20	90.01	-11,215.83	-264.82	870.31	470.17	400.14	2.175 SF				
17,898.35	7,807.00	17,871.77	7,807.00	200.29	200.15	90.00	-11,212.81	-264.85	870.35	470.21	400.14	2.175				

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	267.735		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.40	-71.98	71.98	71.00	0.99	73.019		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.40	-71.98	71.98	70.28	1.70	42.274		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.40	-71.98	71.98	69.56	2.42	29.748		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.40	-71.98	71.98	68.85	3.14	22.949		
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	13.614		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.40	-71.98	71.98	65.98	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		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-89.68	0.40	-71.98	71.98	63.83	8.16	8.826		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-89.68	0.40	-71.98	71.98	63.11	8.87	8.113 CC, ES		
1,400.00	1,399.98	1,400.02	1,399.98	4.78	4.79	120.21	0.40	-71.98	72.84	63.27	9.57	7.610		
1,500.00	1,499.84	1,499.84	1,499.84	5.11	5.15	123.59	0.40	-71.98	75.61	65.36	10.26	7.371		
1,600.00	1,599.45	1,600.01	1,599.99	5.44	5.49	127.47	-1.34	-71.92	80.42	69.49	10.93	7.357		
1,700.00	1,698.70	1,700.33	1,700.17	5.79	5.82	130.38	-6.60	-71.73	86.98	75.38	11.60	7.500		
1,800.00	1,797.47	1,800.77	1,800.22	6.15	6.15	132.36	-15.36	-71.41	95.12	82.85	12.28	7.749		
1,900.00	1,895.62	1,901.30	1,899.99	6.53	6.49	133.54	-27.64	-70.96	104.73	91.76	12.97	8.074		
1,912.93	1,908.27	1,914.30	1,912.86	6.58	6.54	133.64	-29.48	-70.89	106.07	93.01	13.06	8.119		
2,000.00	1,993.35	2,001.95	1,999.38	6.93	6.85	133.72	-43.43	-70.38	114.81	101.11	13.69	8.385		
2,100.00	2,091.07	2,101.82	2,097.58	7.34	7.21	132.76	-61.63	-69.72	124.15	109.70	14.44	8.596		
2,200.00	2,188.79	2,201.36	2,195.43	7.77	7.59	131.89	-79.89	-69.05	133.48	118.27	15.22	8.773		
2,300.00	2,286.51	2,300.91	2,293.29	8.20	7.98	131.13	-98.15	-68.38	142.85	126.84	16.01	8.924		
2,400.00	2,384.23	2,400.45	2,391.14	8.65	8.38	130.47	-116.41	-67.72	152.23	135.41	16.82	9.052		
2,500.00	2,481.95	2,500.01	2,488.99	9.10	8.79	129.88	-134.67	-67.05	161.63	143.99	17.64	9.163		
2,600.00	2,579.67	2,600.46	2,568.84	9.56	9.20	129.35	-152.93	-66.38	171.05	152.57	18.48	9.256		
2,700.00	2,677.39	2,700.92	2,684.70	10.02	9.62	128.89	-171.19	-65.72	180.48	161.15	19.33	9.335		
2,800.00	2,775.11	2,801.37	2,782.55	10.49	10.05	128.46	-189.45	-65.05	189.93	169.73	20.20	9.405		
2,900.00	2,872.83	2,901.83	2,880.40	10.96	10.49	128.08	-207.72	-64.38	199.38	178.31	21.07	9.464		
3,000.00	2,970.55	3,002.29	2,978.25	11.44	10.92	127.73	-225.98	-63.72	208.83	186.89	21.94	9.517		
3,100.00	3,068.27	3,102.74	3,076.10	11.92	11.36	127.42	-244.24	-63.05	218.30	195.47	22.83	9.562		
3,200.00	3,165.99	3,203.20	3,173.96	12.40	11.80	127.13	-262.50	-62.38	227.77	204.05	23.72	9.602		
3,300.00	3,263.71	3,303.65	3,271.81	12.88	12.25	126.86	-280.76	-61.72	237.25	212.63	24.62	9.637		
3,400.00	3,361.43	3,404.11	3,369.66	13.37	12.70	126.61	-299.02	-61.05	246.73	221.21	25.52	9.668		
3,500.00	3,459.15	3,504.57	3,467.51	13.86	13.15	126.38	-317.28	-60.38	256.22	229.79	26.43	9.695		
3,600.00	3,556.87	3,605.02	3,565.37	14.35	13.60	126.17	-335.54	-59.72	265.71	238.37	27.34	9.719		
3,700.00	3,654.59	3,705.48	3,663.22	14.84	14.06	125.97	-353.80	-59.05	275.20	246.95	28.25	9.741		
3,800.00	3,752.31	3,805.93	3,761.07	15.34	14.51	125.79	-372.06	-58.38	284.70	255.53	29.17	9.760		
3,900.00	3,850.03	3,906.39	3,858.92	15.83	14.97	125.61	-390.33	-57.72	294.20	264.11	30.09	9.777		
4,000.00	3,947.75	4,006.84	3,956.78	16.33	15.43	125.45	-408.59	-57.05	303.70	272.68	31.01	9.793		
4,100.00	4,045.47	4,107.30	4,054.63	16.83	15.89	125.30	-426.85	-56.38	313.20	281.26	31.94	9.806		
4,200.00	4,143.19	4,207.76	4,152.48	17.32	16.36	125.16	-445.11	-55.72	322.71	289.84	32.87	9.819		
4,300.00	4,240.91	4,308.21	4,250.33	17.82	16.82	125.02	-463.37	-55.05	332.22	298.42	33.80	9.830		
4,400.00	4,338.63	4,408.67	4,348.19	18.32	17.28	124.89	-481.63	-54.38	341.72	307.00	34.73	9.840		
4,500.00	4,436.35	4,509.12	4,446.04	18.82	17.75	124.77	-499.89	-53.72	351.24	315.57	35.66	9.849		
4,600.00	4,534.07	4,609.58	4,543.89	19.33	18.21	124.66	-518.15	-53.05	360.75	324.15	36.60	9.857		
4,700.00	4,631.79	4,689.96	4,641.74	19.83	18.59	124.55	-536.41	-52.38	370.26	332.82	37.44	9.889		
4,800.00	4,729.51	4,789.51	4,739.60	20.33	19.05	124.45	-554.67	-51.72	379.78	341.40	38.38	9.896		
4,900.00	4,827.23	4,889.05	4,837.45	20.83	19.51	124.35	-572.94	-51.05	389.29	349.98	39.31	9.903		
5,000.00	4,924.95	4,988.60	4,935.30	21.34	19.98	124.26	-591.20	-50.38	398.81	358.56	40.25	9.909		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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					
5,100.00	5,022.67	5,088.14	5,033.15	21.84	20.44	124.17	-609.46	-49.72	408.33	367.14	41.19	9.914					
5,200.00	5,120.39	5,187.68	5,131.01	22.35	20.91	124.08	-627.72	-49.05	417.85	375.72	42.13	9.919					
5,300.00	5,218.11	5,287.23	5,228.86	22.85	21.37	124.00	-645.98	-48.38	427.37	384.30	43.07	9.924					
5,400.00	5,315.83	5,386.77	5,326.71	23.36	21.84	123.92	-664.24	-47.72	436.89	392.88	44.01	9.928					
5,500.00	5,413.55	5,486.32	5,424.56	23.86	22.30	123.85	-682.50	-47.05	446.41	401.46	44.95	9.932					
5,600.00	5,511.27	5,585.86	5,522.42	24.37	22.77	123.78	-700.76	-46.38	455.93	410.04	45.89	9.935					
5,700.00	5,608.99	5,685.40	5,620.27	24.88	23.24	123.71	-719.02	-45.72	465.46	418.62	46.83	9.939					
5,800.00	5,706.71	5,784.95	5,718.12	25.38	23.71	123.65	-737.28	-45.05	474.98	427.20	47.78	9.942					
5,900.00	5,804.43	5,884.49	5,815.97	25.89	24.17	123.58	-755.55	-44.38	484.51	435.78	48.72	9.944					
6,000.00	5,902.15	5,984.04	5,913.83	26.40	24.64	123.52	-773.81	-43.72	494.03	444.36	49.67	9.947					
6,100.00	5,999.87	6,083.58	6,011.68	26.91	25.11	123.46	-792.07	-43.05	503.56	452.94	50.61	9.949					
6,200.00	6,097.59	6,183.12	6,109.53	27.42	25.58	123.41	-810.33	-42.38	513.08	461.52	51.56	9.951					
6,300.00	6,195.30	6,282.67	6,207.38	27.92	26.05	123.35	-828.59	-41.72	522.61	470.10	52.51	9.953					
6,400.00	6,293.02	6,382.21	6,305.24	28.43	26.52	123.30	-846.85	-41.05	532.13	478.68	53.45	9.955					
6,500.00	6,390.74	6,481.76	6,403.09	28.94	26.99	123.25	-865.11	-40.38	541.66	487.26	54.40	9.957					
6,600.00	6,488.46	6,581.30	6,500.94	29.45	27.46	123.20	-883.37	-39.72	551.19	495.84	55.35	9.958					
6,638.14	6,525.73	6,619.26	6,538.26	29.64	27.64	123.18	-890.34	-39.46	554.82	499.11	55.71	9.959					
6,700.00	6,586.32	6,680.87	6,598.82	29.95	27.93	123.19	-901.64	-39.05	560.35	504.05	56.30	9.953					
6,800.00	6,684.79	6,780.52	6,696.78	30.42	28.40	122.94	-919.92	-38.38	567.77	510.52	57.25	9.917					
6,900.00	6,783.81	6,880.15	6,794.71	30.85	28.87	122.38	-938.19	-37.72	573.33	515.14	58.20	9.852					
7,000.00	6,883.25	6,979.21	6,892.11	31.24	29.34	121.52	-956.27	-37.06	577.16	518.02	59.13	9.760					
7,100.00	6,983.00	7,077.14	6,988.79	31.60	29.78	120.60	-971.80	-36.49	579.53	519.52	60.01	9.657					
7,200.00	7,082.93	7,175.45	7,086.32	31.92	30.19	119.70	-984.06	-36.04	580.52	519.70	60.82	9.545					
7,251.07	7,134.00	7,225.79	7,136.42	32.06	30.38	-89.45	-989.04	-35.86	580.49	519.29	61.20	9.485					
7,300.00	7,182.93	7,274.14	7,184.60	32.19	30.57	-89.84	-993.00	-35.72	580.32	518.77	61.55	9.429					
7,351.07	7,234.00	7,324.73	7,235.09	32.32	30.75	-90.17	-996.27	-35.60	580.20	518.31	61.89	9.374					
7,400.00	7,282.87	7,373.31	7,283.62	32.47	30.92	90.16	-998.56	-35.51	580.13	517.91	62.22	9.325					
7,432.77	7,315.43	7,405.74	7,316.03	32.60	31.03	90.42	-999.64	-35.47	580.11	517.67	62.44	9.291					
7,450.00	7,332.44	7,422.68	7,332.96	32.67	31.08	90.64	-1,000.06	-35.46	580.12	517.58	62.54	9.276					
7,500.00	7,381.26	7,471.14	7,381.42	32.90	31.22	91.59	-1,000.70	-35.43	580.30	517.46	62.84	9.235					
7,550.00	7,428.96	7,518.68	7,428.96	33.18	31.35	92.92	-1,000.73	-35.43	580.91	517.80	63.11	9.204					
7,600.00	7,475.17	7,564.90	7,475.17	33.48	31.48	94.52	-1,000.73	-35.43	582.26	518.89	63.37	9.189					
7,650.00	7,519.55	7,612.87	7,523.13	33.82	31.63	96.39	-1,001.42	-35.43	584.63	521.00	63.63	9.188					
7,700.00	7,561.76	7,665.11	7,575.13	34.20	31.83	98.37	-1,006.36	-35.40	587.89	523.91	63.98	9.189					
7,750.00	7,601.47	7,720.07	7,629.09	34.60	32.09	100.33	-1,016.64	-35.34	591.95	527.54	64.41	9.190					
7,800.00	7,638.39	7,778.08	7,684.71	35.04	32.42	102.28	-1,033.05	-35.24	596.70	531.79	64.91	9.192					
7,850.00	7,672.23	7,839.56	7,741.52	35.50	32.81	104.19	-1,056.47	-35.10	602.01	536.53	65.48	9.193					
7,900.00	7,702.74	7,904.87	7,798.75	35.99	33.29	106.05	-1,087.86	-34.92	607.69	541.58	66.11	9.192					
7,950.00	7,729.67	7,974.38	7,855.31	36.50	33.87	107.84	-1,128.19	-34.68	613.52	546.73	66.78	9.187					
8,000.00	7,752.84	8,048.35	7,909.67	37.04	34.54	109.51	-1,178.28	-34.38	619.23	551.72	67.51	9.173					
8,050.00	7,772.06	8,126.86	7,959.80	37.60	35.33	111.01	-1,238.63	-34.02	624.54	556.23	68.31	9.142					
8,100.00	7,787.18	8,209.76	8,003.25	38.17	36.22	112.30	-1,309.14	-33.61	629.15	559.92	69.22	9.089					
8,150.00	7,798.10	8,296.53	8,037.35	38.76	37.23	113.30	-1,388.83	-33.14	632.76	562.44	70.32	8.999					
8,200.00	7,804.72	8,386.27	8,059.55	39.36	38.31	113.96	-1,475.69	-32.62	635.13	563.48	71.65	8.865					
8,251.15	7,807.00	8,479.82	8,067.98	39.97	39.45	114.22	-1,568.75	-32.07	636.09	562.79	73.30	8.678					
8,300.00	7,807.00	8,530.94	8,068.00	40.56	40.09	114.22	-1,619.87	-31.77	636.09	561.65	74.45	8.544					
8,400.00	7,807.00	8,630.94	8,068.00	41.80	41.36	114.22	-1,719.87	-31.18	636.10	559.32	76.78	8.284					
8,500.00	7,807.00	8,730.94	8,067.99	43.08	42.67	114.22	-1,819.87	-30.58	636.10	556.91	79.19	8.033					
8,600.00	7,806.99	8,830.94	8,067.99	44.40	44.00	114.22	-1,919.87	-29.99	636.10	554.45	81.65	7.790					
8,700.00	7,806.99	8,930.94	8,067.99	45.74	45.37	114.22	-2,019.87	-29.40	636.11	551.93	84.18	7.557					
8,800.00	7,806.99	9,030.94	8,067.99	47.11	46.77	114.22	-2,119.86	-28.81	636.11	549.36	86.75	7.332					
8,900.00	7,806.99	9,130.94	8,067.98	48.51	48.19	114.22	-2,219.86	-28.21	636.11	546.74	89.38	7.117					

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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				
9,000.00	7,806.99	9,230.94	8,067.98	49.93	49.63	114.22	-2,319.86	-27.62	636.12	544.07	92.04	6.911				
9,100.00	7,806.99	9,330.94	8,067.98	51.38	51.09	114.22	-2,419.86	-27.03	636.12	541.37	94.75	6.714				
9,200.00	7,806.99	9,430.94	8,067.98	52.84	52.58	114.22	-2,519.86	-26.44	636.12	538.63	97.49	6.525				
9,300.00	7,806.98	9,530.94	8,067.97	54.32	54.08	114.22	-2,619.86	-25.85	636.12	535.86	100.27	6.344				
9,400.00	7,806.98	9,630.94	8,067.97	55.82	55.59	114.22	-2,719.85	-25.25	636.13	533.05	103.08	6.171				
9,500.00	7,806.98	9,730.94	8,067.97	57.34	57.13	114.22	-2,819.85	-24.66	636.13	530.22	105.91	6.006				
9,600.00	7,806.98	9,830.94	8,067.97	58.87	58.67	114.22	-2,919.85	-24.07	636.13	527.36	108.77	5.848				
9,700.00	7,806.98	9,930.94	8,067.96	60.41	60.23	114.22	-3,019.85	-23.48	636.14	524.48	111.66	5.697				
9,800.00	7,806.98	10,030.94	8,067.96	61.96	61.80	114.22	-3,119.85	-22.88	636.14	521.57	114.57	5.552				
9,900.00	7,806.97	10,130.94	8,067.96	63.53	63.38	114.22	-3,219.85	-22.29	636.14	518.64	117.50	5.414				
10,000.00	7,806.97	10,230.94	8,067.96	65.10	64.97	114.22	-3,319.84	-21.70	636.15	515.70	120.45	5.282				
10,100.00	7,806.97	10,330.94	8,067.95	66.69	66.57	114.22	-3,419.84	-21.11	636.15	512.74	123.41	5.155				
10,200.00	7,806.97	10,430.94	8,067.95	68.29	68.17	114.22	-3,519.84	-20.52	636.15	509.76	126.39	5.033				
10,300.00	7,806.97	10,530.94	8,067.95	69.89	69.79	114.22	-3,619.84	-19.92	636.15	506.76	129.39	4.916				
10,400.00	7,806.97	10,630.94	8,067.95	71.50	71.41	114.22	-3,719.84	-19.33	636.16	503.75	132.40	4.805				
10,500.00	7,806.97	10,730.94	8,067.94	73.12	73.04	114.22	-3,819.84	-18.74	636.16	500.73	135.43	4.697				
10,600.00	7,806.96	10,830.94	8,067.94	74.75	74.68	114.22	-3,919.83	-18.15	636.16	497.69	138.47	4.594				
10,700.00	7,806.96	10,930.94	8,067.94	76.38	76.32	114.22	-4,019.83	-17.56	636.17	494.65	141.52	4.495				
10,800.00	7,806.96	11,030.94	8,067.94	78.02	77.97	114.22	-4,119.83	-16.96	636.17	491.59	144.58	4.400				
10,900.00	7,806.96	11,130.94	8,067.93	79.66	79.63	114.22	-4,219.83	-16.37	636.17	488.52	147.65	4.309				
11,000.00	7,806.96	11,230.94	8,067.93	81.31	81.29	114.22	-4,319.83	-15.78	636.17	485.44	150.73	4.221				
11,100.00	7,806.96	11,330.94	8,067.93	82.97	82.95	114.22	-4,419.82	-15.19	636.18	482.36	153.82	4.136				
11,200.00	7,806.95	11,430.94	8,067.93	84.63	84.62	114.22	-4,519.82	-14.59	636.18	479.26	156.92	4.054				
11,300.00	7,806.95	11,530.94	8,067.92	86.29	86.29	114.22	-4,619.82	-14.00	636.18	476.16	160.03	3.976				
11,400.00	7,806.95	11,630.94	8,067.92	87.96	87.97	114.22	-4,719.82	-13.41	636.19	473.05	163.14	3.900				
11,500.00	7,806.95	11,730.94	8,067.92	89.64	89.65	114.22	-4,819.82	-12.82	636.19	469.93	166.26	3.826				
11,600.00	7,806.95	11,830.94	8,067.92	91.31	91.33	114.22	-4,919.82	-12.23	636.19	466.80	169.39	3.756				
11,700.00	7,806.95	11,930.94	8,067.91	92.99	93.02	114.22	-5,019.81	-11.63	636.20	463.67	172.52	3.688				
11,800.00	7,806.95	12,030.94	8,067.91	94.68	94.71	114.22	-5,119.81	-11.04	636.20	460.53	175.66	3.622				
11,900.00	7,806.94	12,130.94	8,067.91	96.36	96.40	114.22	-5,219.81	-10.45	636.20	457.39	178.81	3.558				
12,000.00	7,806.94	12,230.94	8,067.91	98.05	98.10	114.22	-5,319.81	-9.86	636.20	454.24	181.96	3.496				
12,100.00	7,806.94	12,330.94	8,067.90	99.74	99.79	114.22	-5,419.81	-9.27	636.21	451.09	185.12	3.437				
12,200.00	7,806.94	12,430.94	8,067.90	101.44	101.50	114.22	-5,519.81	-8.67	636.21	447.93	188.28	3.379				
12,300.00	7,806.94	12,530.94	8,067.90	103.14	103.20	114.22	-5,619.80	-8.08	636.21	444.77	191.45	3.323				
12,400.00	7,806.94	12,630.94	8,067.90	104.84	104.91	114.22	-5,719.80	-7.49	636.22	441.60	194.62	3.269				
12,500.00	7,806.93	12,730.94	8,067.89	106.54	106.61	114.22	-5,819.80	-6.90	636.22	438.43	197.79	3.217				
12,600.00	7,806.93	12,830.94	8,067.89	108.25	108.32	114.22	-5,919.80	-6.30	636.22	435.25	200.97	3.166				
12,700.00	7,806.93	12,930.94	8,067.89	109.95	110.04	114.22	-6,019.80	-5.71	636.23	432.07	204.15	3.116				
12,800.00	7,806.93	13,030.94	8,067.89	111.66	111.75	114.21	-6,119.79	-5.12	636.23	428.89	207.34	3.069				
12,900.00	7,806.93	13,130.94	8,067.88	113.37	113.47	114.21	-6,219.79	-4.53	636.23	425.70	210.53	3.022				
13,000.00	7,806.93	13,230.94	8,067.88	115.09	115.18	114.21	-6,319.79	-3.94	636.23	422.51	213.72	2.977				
13,100.00	7,806.93	13,330.94	8,067.88	116.80	116.90	114.21	-6,419.79	-3.34	636.24	419.32	216.92	2.933				
13,200.00	7,806.92	13,430.94	8,067.88	118.52	118.62	114.21	-6,519.79	-2.75	636.24	416.12	220.12	2.890				
13,300.00	7,806.92	13,530.94	8,067.87	120.24	120.35	114.21	-6,619.79	-2.16	636.24	412.92	223.32	2.849				
13,400.00	7,806.92	13,630.94	8,067.87	121.96	122.07	114.21	-6,719.78	-1.57	636.25	409.72	226.53	2.809				
13,500.00	7,806.92	13,730.94	8,067.87	123.68	123.80	114.21	-6,819.78	-0.98	636.25	406.51	229.73	2.770				
13,600.00	7,806.92	13,830.94	8,067.87	125.40	125.52	114.21	-6,919.78	-0.38	636.25	403.31	232.94	2.731				
13,700.00	7,806.92	13,930.94	8,067.86	127.12	127.25	114.21	-7,019.78	0.21	636.25	400.10	236.16	2.694				
13,800.00	7,806.91	14,030.94	8,067.86	128.85	128.98	114.21	-7,119.78	0.80	636.26	396.89	239.37	2.658				
13,900.00	7,806.91	14,130.94	8,067.86	130.58	130.71	114.21	-7,219.78	1.39	636.26	393.67	242.59	2.623				
14,000.00	7,806.91	14,230.94	8,067.86	132.30	132.44	114.21	-7,319.77	1.99	636.26	390.45	245.81	2.588				
14,100.00	7,806.91	14,330.94	8,067.85	134.03	134.17	114.21	-7,419.77	2.58	636.27	387.23	249.03	2.555				

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,430.94	8,067.85	135.76	135.91	114.21	-7,519.77	3.17	636.27	384.01	252.26	2.522		
14,300.00	7,806.91	14,530.94	8,067.85	137.50	137.64	114.21	-7,619.77	3.76	636.27	380.79	255.48	2.490		
14,400.00	7,806.91	14,630.94	8,067.85	139.23	139.38	114.21	-7,719.77	4.35	636.28	377.57	258.71	2.459		
14,500.00	7,806.90	14,730.94	8,067.84	140.96	141.12	114.21	-7,819.76	4.95	636.28	374.34	261.94	2.429		
14,600.00	7,806.90	14,830.94	8,067.84	142.70	142.85	114.21	-7,919.76	5.54	636.28	371.11	265.17	2.400		
14,700.00	7,806.90	14,930.94	8,067.84	144.43	144.59	114.21	-8,019.76	6.13	636.28	367.88	268.40	2.371		
14,800.00	7,806.90	15,030.94	8,067.84	146.17	146.33	114.21	-8,119.76	6.72	636.29	364.65	271.64	2.342		
14,900.00	7,806.90	15,130.94	8,067.83	147.91	148.07	114.21	-8,219.76	7.31	636.29	361.42	274.87	2.315		
15,000.00	7,806.90	15,230.94	8,067.83	149.64	149.81	114.21	-8,319.76	7.91	636.29	358.18	278.11	2.288		
15,100.00	7,806.89	15,330.94	8,067.83	151.38	151.55	114.21	-8,419.75	8.50	636.30	354.95	281.35	2.262		
15,200.00	7,806.89	15,430.94	8,067.83	153.12	153.29	114.21	-8,519.75	9.09	636.30	351.71	284.59	2.236		
15,300.00	7,806.89	15,530.94	8,067.82	154.86	155.04	114.21	-8,619.75	9.68	636.30	348.47	287.83	2.211		
15,400.00	7,806.89	15,630.94	8,067.82	156.60	156.78	114.21	-8,719.75	10.28	636.31	345.23	291.07	2.186		
15,500.00	7,806.89	15,730.94	8,067.82	158.35	158.53	114.21	-8,819.75	10.87	636.31	341.99	294.32	2.162		
15,600.00	7,806.89	15,830.94	8,067.82	160.09	160.27	114.21	-8,919.75	11.46	636.31	338.75	297.56	2.138		
15,700.00	7,806.89	15,930.94	8,067.81	161.83	162.02	114.21	-9,019.74	12.05	636.31	335.50	300.81	2.115		
15,800.00	7,806.88	16,030.94	8,067.81	163.57	163.76	114.21	-9,119.74	12.64	636.32	332.26	304.06	2.093		
15,900.00	7,806.88	16,130.94	8,067.81	165.32	165.51	114.21	-9,219.74	13.24	636.32	329.01	307.31	2.071		
16,000.00	7,806.88	16,230.94	8,067.81	167.06	167.26	114.21	-9,319.74	13.83	636.32	325.76	310.56	2.049		
16,100.00	7,806.88	16,330.94	8,067.80	168.81	169.00	114.21	-9,419.74	14.42	636.33	322.52	313.81	2.028		
16,200.00	7,806.88	16,430.94	8,067.80	170.56	170.75	114.21	-9,519.74	15.01	636.33	319.27	317.06	2.007		
16,300.00	7,806.88	16,530.94	8,067.80	172.30	172.50	114.21	-9,619.73	15.60	636.33	316.02	320.31	1.987		
16,400.00	7,806.87	16,630.94	8,067.80	174.05	174.25	114.21	-9,719.73	16.20	636.33	312.77	323.57	1.967		
16,500.00	7,806.87	16,730.94	8,067.79	175.80	176.00	114.21	-9,819.73	16.79	636.34	309.51	326.82	1.947		
16,600.00	7,806.87	16,830.94	8,067.79	177.55	177.75	114.21	-9,919.73	17.38	636.34	306.26	330.08	1.928		
16,700.00	7,806.87	16,930.94	8,067.79	179.30	179.50	114.21	-10,019.73	17.97	636.34	303.01	333.34	1.909		
16,800.00	7,806.87	17,030.94	8,067.79	181.04	181.25	114.21	-10,119.72	18.57	636.35	299.75	336.59	1.891		
16,900.00	7,806.87	17,130.94	8,067.78	182.79	183.00	114.21	-10,219.72	19.16	636.35	296.50	339.85	1.872		
17,000.00	7,806.87	17,230.94	8,067.78	184.54	184.76	114.21	-10,319.72	19.75	636.35	293.24	343.11	1.855		
17,100.00	7,806.86	17,330.94	8,067.78	186.30	186.51	114.21	-10,419.72	20.34	636.36	289.98	346.37	1.837		
17,200.00	7,806.86	17,430.94	8,067.78	188.05	188.26	114.21	-10,519.72	20.93	636.36	286.73	349.63	1.820		
17,300.00	7,806.86	17,530.94	8,067.77	189.80	190.02	114.21	-10,619.72	21.53	636.36	283.47	352.89	1.803		
17,400.00	7,806.86	17,630.94	8,067.77	191.55	191.77	114.21	-10,719.71	22.12	636.36	280.21	356.16	1.787		
17,500.00	7,806.86	17,730.94	8,067.77	193.30	193.52	114.20	-10,819.71	22.71	636.37	276.95	359.42	1.771		
17,600.00	7,806.86	17,830.94	8,067.77	195.06	195.28	114.20	-10,919.71	23.30	636.37	273.69	362.68	1.755		
17,700.00	7,806.85	17,930.94	8,067.76	196.81	197.03	114.20	-11,019.71	23.89	636.37	270.43	365.95	1.739		
17,800.00	7,806.85	18,030.94	8,067.76	198.56	198.79	114.20	-11,119.71	24.49	636.38	267.16	369.21	1.724		
17,871.26	7,806.85	18,103.21	8,067.79	199.81	200.06	114.21	-11,191.97	24.93	636.37	264.82	371.56	1.713		
17,898.35	7,807.00	18,124.67	8,068.00	200.29	200.43	114.22	-11,213.43	25.19	636.30	264.04	372.26	1.709 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	-89.68	0.20	-35.99	35.99					
100.00	100.00	100.00	100.00	0.13	0.13	-89.68	0.20	-35.99	35.99	35.72	0.27	133.868		
200.00	200.00	200.00	200.00	0.49	0.49	-89.68	0.20	-35.99	35.99	35.01	0.99	36.509		
300.00	300.00	300.00	300.00	0.85	0.85	-89.68	0.20	-35.99	35.99	34.29	1.70	21.137		
400.00	400.00	400.00	400.00	1.21	1.21	-89.68	0.20	-35.99	35.99	33.57	2.42	14.874		
500.00	500.00	500.00	500.00	1.57	1.57	-89.68	0.20	-35.99	35.99	32.85	3.14	11.474		
600.00	600.00	600.00	600.00	1.93	1.93	-89.68	0.20	-35.99	35.99	32.14	3.85	9.340		
700.00	700.00	700.00	700.00	2.29	2.29	-89.68	0.20	-35.99	35.99	31.42	4.57	7.875		
800.00	800.00	800.00	800.00	2.64	2.64	-89.68	0.20	-35.99	35.99	30.70	5.29	6.807		
900.00	900.00	900.00	900.00	3.00	3.00	-89.68	0.20	-35.99	35.99	29.99	6.00	5.994		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	-89.68	0.20	-35.99	35.99	29.27	6.72	5.355		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	-89.68	0.20	-35.99	35.99	28.55	7.44	4.839		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	-89.68	0.20	-35.99	35.99	27.84	8.16	4.413		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	4.44	-89.68	0.20	-35.99	35.99	27.12	8.87	4.057 CC		
1,400.00	1,399.98	1,399.98	1,399.98	4.78	4.79	121.38	0.20	-35.99	36.87	27.30	9.57	3.852		
1,500.00	1,499.84	1,500.40	1,500.37	5.11	5.14	125.48	-1.49	-35.50	39.13	28.89	10.24	3.821		
1,600.00	1,599.45	1,600.92	1,600.75	5.44	5.47	128.53	-6.56	-34.02	42.20	31.30	10.90	3.872		
1,700.00	1,698.70	1,701.54	1,700.99	5.79	5.80	130.58	-15.02	-31.56	45.98	34.42	11.57	3.976		
1,800.00	1,797.47	1,802.26	1,800.94	6.15	6.14	131.77	-26.87	-28.10	50.41	38.17	12.25	4.117		
1,900.00	1,895.62	1,903.05	1,900.47	6.53	6.50	132.27	-42.10	-23.67	55.45	42.51	12.95	4.283		
1,912.93	1,908.27	1,916.09	1,913.31	6.58	6.55	132.29	-44.31	-23.02	56.15	43.11	13.04	4.306		
2,000.00	1,993.35	2,003.59	1,999.18	6.93	6.88	131.53	-60.43	-18.33	60.30	46.62	13.68	4.407		
2,100.00	2,091.07	2,103.48	2,097.10	7.34	7.27	130.35	-79.35	-12.81	64.82	50.37	14.46	4.484		
2,200.00	2,188.79	2,203.37	2,195.03	7.77	7.67	129.32	-98.28	-7.30	69.36	54.11	15.25	4.548		
2,300.00	2,286.51	2,303.26	2,292.95	8.20	8.08	128.42	-117.20	-1.79	73.93	57.86	16.07	4.601		
2,400.00	2,384.23	2,403.15	2,390.88	8.65	8.50	127.62	-136.13	3.73	78.50	61.61	16.90	4.646		
2,500.00	2,481.95	2,503.04	2,488.80	9.10	8.93	126.91	-155.06	9.24	83.09	65.35	17.74	4.683		
2,600.00	2,579.67	2,602.93	2,586.73	9.56	9.36	126.28	-173.98	14.75	87.70	69.09	18.60	4.714		
2,700.00	2,677.39	2,702.82	2,684.65	10.02	9.80	125.71	-192.91	20.27	92.31	72.83	19.48	4.740		
2,800.00	2,775.11	2,802.71	2,782.58	10.49	10.25	125.19	-211.83	25.78	96.93	76.57	20.36	4.761		
2,900.00	2,872.83	2,902.60	2,880.50	10.96	10.70	124.72	-230.76	31.29	101.56	80.31	21.25	4.780		
3,000.00	2,970.55	3,002.49	2,978.43	11.44	11.15	124.30	-249.68	36.81	106.19	84.04	22.15	4.795		
3,100.00	3,068.27	3,102.37	3,076.35	11.92	11.61	123.90	-268.61	42.32	110.83	87.78	23.05	4.808		
3,200.00	3,165.99	3,202.26	3,174.28	12.40	12.07	123.54	-287.54	47.83	115.47	91.51	23.96	4.819		
3,300.00	3,263.71	3,302.15	3,272.20	12.88	12.53	123.21	-306.46	53.35	120.12	95.24	24.88	4.828		
3,400.00	3,361.43	3,402.04	3,370.13	13.37	12.99	122.90	-325.39	58.86	124.77	98.97	25.80	4.836		
3,500.00	3,459.15	3,501.93	3,468.05	13.86	13.46	122.61	-344.31	64.38	129.43	102.70	26.73	4.843		
3,600.00	3,556.87	3,601.82	3,565.98	14.35	13.93	122.35	-363.24	69.89	134.09	106.43	27.66	4.848		
3,700.00	3,654.59	3,701.71	3,663.90	14.84	14.40	122.10	-382.17	75.40	138.75	110.16	28.59	4.853		
3,800.00	3,752.31	3,801.60	3,761.83	15.34	14.87	121.87	-401.09	80.92	143.41	113.88	29.53	4.857		
3,900.00	3,850.03	3,901.49	3,859.75	15.83	15.35	121.65	-420.02	86.43	148.08	117.61	30.47	4.860		
4,000.00	3,947.75	4,001.38	3,957.68	16.33	15.82	121.44	-438.94	91.94	152.74	121.33	31.41	4.862		
4,100.00	4,045.47	4,101.27	4,055.60	16.83	16.30	121.25	-457.87	97.46	157.41	125.06	32.36	4.865		
4,200.00	4,143.19	4,201.16	4,153.53	17.32	16.77	121.07	-476.79	102.97	162.09	128.78	33.31	4.866		
4,300.00	4,240.91	4,301.05	4,251.45	17.82	17.25	120.90	-495.72	108.48	166.76	132.50	34.26	4.868		
4,400.00	4,338.63	4,400.94	4,349.38	18.32	17.73	120.74	-514.65	114.00	171.43	136.22	35.21	4.869		
4,500.00	4,436.35	4,500.83	4,447.31	18.82	18.21	120.59	-533.57	119.51	176.11	139.94	36.16	4.870		
4,600.00	4,534.07	4,600.72	4,545.23	19.33	18.69	120.44	-552.50	125.02	180.78	143.66	37.12	4.870		
4,700.00	4,631.79	4,700.61	4,643.16	19.83	19.17	120.30	-571.42	130.54	185.46	147.39	38.08	4.871		
4,800.00	4,729.51	4,800.50	4,741.08	20.33	19.65	120.17	-590.35	136.05	190.14	151.11	39.03	4.871		
4,900.00	4,827.23	4,900.39	4,839.01	20.83	20.14	120.05	-609.28	141.57	194.82	154.82	39.99	4.871		
5,000.00	4,924.95	5,000.28	4,936.93	21.34	20.62	119.93	-628.20	147.08	199.50	158.54	40.96	4.871		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,100.17	5,034.86	21.84	21.10	119.81	-647.13	152.59	204.18	162.26	41.92	4.871		
5,200.00	5,120.39	5,200.06	5,132.78	22.35	21.59	119.71	-666.05	158.11	208.86	165.98	42.88	4.871		
5,300.00	5,218.11	5,300.05	5,230.71	22.85	22.07	119.60	-684.98	163.62	213.55	169.70	43.85	4.870		
5,400.00	5,315.83	5,400.17	5,328.63	23.36	22.56	119.50	-703.90	169.13	218.23	173.42	44.81	4.870		
5,500.00	5,413.55	5,500.28	5,426.56	23.86	23.04	119.41	-722.83	174.65	222.91	177.13	45.78	4.869		
5,600.00	5,511.27	5,600.39	5,524.48	24.37	23.53	119.32	-741.76	180.16	227.60	180.85	46.75	4.869		
5,700.00	5,608.99	5,700.50	5,622.41	24.88	24.02	119.23	-760.68	185.67	232.28	184.57	47.72	4.868		
5,800.00	5,706.71	5,800.61	5,720.33	25.38	24.51	119.15	-779.61	191.19	236.97	188.28	48.69	4.867		
5,900.00	5,804.43	5,899.28	5,818.26	25.89	24.99	119.07	-798.53	196.70	241.65	192.01	49.65	4.867		
6,000.00	5,902.15	6,000.83	5,916.18	26.40	25.48	118.99	-817.46	202.21	246.34	195.71	50.63	4.866		
6,100.00	5,999.87	6,099.06	6,014.11	26.91	25.96	118.91	-836.38	207.73	251.03	199.44	51.59	4.866		
6,200.00	6,097.59	6,201.05	6,112.03	27.42	26.46	118.84	-855.31	213.24	255.72	203.15	52.57	4.864		
6,300.00	6,195.30	6,301.16	6,209.96	27.92	26.95	118.77	-874.24	218.75	260.40	206.86	53.54	4.863		
6,400.00	6,293.02	6,401.27	6,307.88	28.43	27.44	118.70	-893.16	224.27	265.09	210.58	54.52	4.863		
6,500.00	6,390.74	6,498.62	6,405.81	28.94	27.91	118.64	-912.09	229.78	269.78	214.30	55.48	4.863		
6,600.00	6,488.46	6,601.49	6,503.73	29.45	28.42	118.58	-931.01	235.30	274.47	218.01	56.46	4.861		
6,638.14	6,525.73	6,636.61	6,541.08	29.64	28.59	118.55	-938.23	237.40	276.26	219.44	56.82	4.862		
6,700.00	6,586.32	6,697.52	6,600.83	29.95	28.88	118.48	-949.60	240.71	278.89	221.48	57.42	4.857		
6,800.00	6,684.79	6,794.80	6,696.70	30.42	29.33	118.35	-965.42	245.32	282.52	224.19	58.32	4.844		
6,900.00	6,783.81	6,892.10	6,793.10	30.85	29.75	118.25	-978.11	249.01	285.43	226.26	59.16	4.824		
7,000.00	6,883.25	6,989.42	6,889.91	31.24	30.13	118.17	-987.65	251.79	287.61	227.68	59.93	4.799		
7,100.00	6,983.00	7,086.76	6,987.01	31.60	30.48	118.12	-994.03	253.65	289.08	228.45	60.63	4.768		
7,200.00	7,082.93	7,184.10	7,084.29	31.92	30.80	118.10	-997.24	254.59	289.81	228.56	61.26	4.731		
7,251.07	7,134.00	7,233.81	7,134.00	32.06	30.95	-90.61	-997.65	254.71	289.91	228.37	61.54	4.711		
7,300.00	7,182.93	7,282.74	7,182.93	32.19	31.08	-90.61	-997.65	254.71	289.91	228.10	61.80	4.691		
7,334.05	7,216.98	7,316.79	7,216.98	32.27	31.17	-90.61	-997.65	254.71	289.91	227.92	61.99	4.677		
7,351.07	7,234.00	7,333.81	7,234.00	32.32	31.21	-90.61	-997.65	254.71	289.91	227.83	62.08	4.670		
7,400.00	7,282.87	7,382.63	7,282.76	32.47	31.38	89.74	-999.73	254.72	289.91	227.51	62.40	4.646		
7,450.00	7,332.44	7,432.51	7,332.21	32.67	31.58	89.74	-1,006.13	254.76	289.91	227.10	62.81	4.616		
7,500.00	7,381.26	7,482.40	7,380.92	32.90	31.83	89.74	-1,016.81	254.82	289.91	226.61	63.30	4.580		
7,550.00	7,428.96	7,532.29	7,428.53	33.18	32.11	89.75	-1,031.68	254.91	289.91	226.04	63.87	4.539		
7,600.00	7,475.17	7,582.18	7,474.66	33.48	32.43	89.76	-1,050.64	255.02	289.91	225.40	64.50	4.494		
7,650.00	7,519.55	7,632.07	7,518.97	33.82	32.79	89.77	-1,073.54	255.16	289.91	224.69	65.21	4.445		
7,700.00	7,561.76	7,681.97	7,561.13	34.20	33.17	89.78	-1,100.21	255.32	289.91	223.92	65.99	4.393		
7,750.00	7,601.47	7,731.88	7,600.81	34.60	33.60	89.80	-1,130.45	255.50	289.91	223.07	66.84	4.338		
7,800.00	7,638.39	7,781.79	7,637.72	35.04	34.05	89.81	-1,164.03	255.70	289.91	222.17	67.74	4.280		
7,850.00	7,672.23	7,831.71	7,671.57	35.50	34.53	89.83	-1,200.70	255.91	289.91	221.20	68.71	4.219		
7,900.00	7,702.74	7,881.64	7,702.10	35.99	35.04	89.85	-1,240.18	256.15	289.91	220.18	69.73	4.158		
7,950.00	7,729.67	7,931.58	7,729.09	36.50	35.58	89.87	-1,282.17	256.40	289.91	219.11	70.80	4.095		
8,000.00	7,752.84	7,981.52	7,752.32	37.04	36.14	89.89	-1,326.37	256.66	289.91	217.99	71.92	4.031		
8,050.00	7,772.06	8,031.48	7,771.62	37.60	36.71	89.91	-1,372.42	256.94	289.91	216.84	73.07	3.967		
8,100.00	7,787.18	8,081.44	7,786.84	38.17	37.31	89.93	-1,420.00	257.22	289.91	215.65	74.26	3.904		
8,150.00	7,798.10	8,131.42	7,797.86	38.76	37.91	89.95	-1,468.72	257.51	289.91	214.44	75.47	3.841		
8,200.00	7,804.72	8,181.40	7,804.60	39.36	38.53	89.98	-1,518.24	257.80	289.91	213.22	76.70	3.780		
8,251.15	7,807.00	8,235.25	7,807.00	39.97	39.19	90.00	-1,569.30	258.10	289.91	211.92	77.99	3.717		
8,300.00	7,807.00	8,281.40	7,807.00	40.56	39.77	90.00	-1,618.15	258.40	289.92	210.74	79.17	3.662		
8,400.00	7,807.00	8,381.40	7,807.00	41.80	41.05	90.00	-1,718.15	258.99	289.92	208.19	81.72	3.548		
8,500.00	7,807.00	8,481.40	7,806.99	43.08	42.36	90.00	-1,818.15	259.58	289.92	205.58	84.34	3.437		
8,600.00	7,806.99	8,581.40	7,806.99	44.40	43.70	90.00	-1,918.15	260.18	289.92	202.89	87.03	3.331		
8,700.00	7,806.99	8,681.40	7,806.99	45.74	45.08	90.00	-2,018.15	260.77	289.92	200.15	89.77	3.229		
8,800.00	7,806.99	8,781.40	7,806.99	47.11	46.48	90.00	-2,118.15	261.37	289.92	197.35	92.58	3.132		
8,900.00	7,806.99	8,881.40	7,806.98	48.51	47.90	90.00	-2,218.14	261.96	289.93	194.50	95.42	3.038		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	8,981.40	7,806.98	49.93	49.35	90.00	-2,318.14	262.55	289.93	191.61	98.32	2.949		
9,100.00	7,806.99	9,081.40	7,806.98	51.38	50.82	90.00	-2,418.14	263.15	289.93	188.67	101.26	2.863		
9,200.00	7,806.99	9,181.40	7,806.98	52.84	52.31	90.00	-2,518.14	263.74	289.93	185.70	104.23	2.782		
9,300.00	7,806.98	9,281.40	7,806.97	54.32	53.81	90.00	-2,618.14	264.34	289.93	182.69	107.24	2.704		
9,400.00	7,806.98	9,381.40	7,806.97	55.82	55.33	90.00	-2,718.14	264.93	289.93	179.65	110.28	2.629		
9,500.00	7,806.98	9,481.40	7,806.97	57.34	56.87	90.00	-2,818.13	265.53	289.94	176.58	113.35	2.558		
9,600.00	7,806.98	9,581.40	7,806.97	58.87	58.42	90.00	-2,918.13	266.12	289.94	173.49	116.45	2.490		
9,700.00	7,806.98	9,681.40	7,806.96	60.41	59.98	90.00	-3,018.13	266.71	289.94	170.36	119.57	2.425		
9,800.00	7,806.98	9,781.40	7,806.96	61.96	61.55	90.00	-3,118.13	267.31	289.94	167.22	122.72	2.363		
9,900.00	7,806.97	9,881.40	7,806.96	63.53	63.13	90.00	-3,218.13	267.90	289.94	164.05	125.89	2.303		
10,000.00	7,806.97	9,981.40	7,806.96	65.10	64.73	90.00	-3,318.12	268.50	289.94	160.87	129.07	2.246		
10,100.00	7,806.97	10,081.40	7,806.95	66.69	66.33	90.00	-3,418.12	269.09	289.95	157.67	132.28	2.192		
10,200.00	7,806.97	10,181.40	7,806.95	68.29	67.94	90.00	-3,518.12	269.68	289.95	154.44	135.50	2.140		
10,300.00	7,806.97	10,281.40	7,806.95	69.89	69.56	90.00	-3,618.12	270.28	289.95	151.21	138.74	2.090		
10,400.00	7,806.97	10,381.40	7,806.95	71.50	71.19	90.00	-3,718.12	270.87	289.95	147.96	141.99	2.042		
10,500.00	7,806.97	10,481.40	7,806.94	73.12	72.82	90.00	-3,818.12	271.47	289.95	144.69	145.26	1.996		
10,600.00	7,806.96	10,581.40	7,806.94	74.75	74.46	90.00	-3,918.11	272.06	289.95	141.41	148.54	1.952		
10,700.00	7,806.96	10,681.40	7,806.94	76.38	76.10	90.00	-4,018.11	272.66	289.95	138.12	151.83	1.910		
10,800.00	7,806.96	10,781.40	7,806.94	78.02	77.75	90.00	-4,118.11	273.25	289.96	134.82	155.13	1.869		
10,900.00	7,806.96	10,881.40	7,806.93	79.66	79.41	90.00	-4,218.11	273.84	289.96	131.51	158.45	1.830		
11,000.00	7,806.96	10,981.40	7,806.93	81.31	81.07	89.99	-4,318.11	274.44	289.96	128.19	161.77	1.792		
11,100.00	7,806.96	11,081.40	7,806.93	82.97	82.74	89.99	-4,418.11	275.03	289.96	124.86	165.10	1.756		
11,200.00	7,806.95	11,181.40	7,806.93	84.63	84.41	89.99	-4,518.10	275.63	289.96	121.52	168.44	1.721		
11,300.00	7,806.95	11,281.40	7,806.92	86.29	86.08	89.99	-4,618.10	276.22	289.96	118.17	171.79	1.688		
11,400.00	7,806.95	11,381.40	7,806.92	87.96	87.76	89.99	-4,718.10	276.81	289.97	114.82	175.15	1.656		
11,500.00	7,806.95	11,481.40	7,806.92	89.64	89.44	89.99	-4,818.10	277.41	289.97	111.45	178.51	1.624		
11,600.00	7,806.95	11,581.40	7,806.92	91.31	91.13	89.99	-4,918.10	278.00	289.97	108.08	181.89	1.594		
11,700.00	7,806.95	11,681.40	7,806.91	92.99	92.81	89.99	-5,018.09	278.60	289.97	104.71	185.26	1.565		
11,800.00	7,806.95	11,781.40	7,806.91	94.68	94.51	89.99	-5,118.09	279.19	289.97	101.32	188.65	1.537		
11,900.00	7,806.94	11,881.40	7,806.91	96.36	96.20	89.99	-5,218.09	279.79	289.97	97.94	192.04	1.510		
12,000.00	7,806.94	11,981.40	7,806.91	98.05	97.90	89.99	-5,318.09	280.38	289.98	94.54	195.43	1.484 Level 3		
12,100.00	7,806.94	12,081.40	7,806.90	99.74	99.60	89.99	-5,418.09	280.97	289.98	91.14	198.84	1.458 Level 3		
12,200.00	7,806.94	12,181.40	7,806.90	101.44	101.30	89.99	-5,518.09	281.57	289.98	87.74	202.24	1.434 Level 3		
12,300.00	7,806.94	12,281.40	7,806.90	103.14	103.01	89.99	-5,618.08	282.16	289.98	84.33	205.65	1.410 Level 3		
12,400.00	7,806.94	12,381.40	7,806.90	104.84	104.71	89.99	-5,718.08	282.76	289.98	80.92	209.07	1.387 Level 3		
12,500.00	7,806.93	12,481.40	7,806.89	106.54	106.42	89.99	-5,818.08	283.35	289.98	77.50	212.49	1.365 Level 3		
12,600.00	7,806.93	12,581.40	7,806.89	108.25	108.13	89.99	-5,918.08	283.94	289.99	74.08	215.91	1.343 Level 3		
12,700.00	7,806.93	12,681.40	7,806.89	109.95	109.85	89.99	-6,018.08	284.54	289.99	70.65	219.34	1.322 Level 3		
12,800.00	7,806.93	12,781.40	7,806.89	111.66	111.56	89.99	-6,118.08	285.13	289.99	67.22	222.77	1.302 Level 3		
12,900.00	7,806.93	12,881.40	7,806.88	113.37	113.28	89.99	-6,218.07	285.73	289.99	63.79	226.20	1.282 Level 3		
13,000.00	7,806.93	12,981.40	7,806.88	115.09	115.00	89.99	-6,318.07	286.32	289.99	60.35	229.64	1.263 Level 3		
13,100.00	7,806.93	13,081.40	7,806.88	116.80	116.72	89.99	-6,418.07	286.92	289.99	56.91	233.08	1.244 Level 2		
13,200.00	7,806.92	13,181.40	7,806.88	118.52	118.44	89.99	-6,518.07	287.51	290.00	53.47	236.53	1.226 Level 2		
13,300.00	7,806.92	13,281.40	7,806.87	120.24	120.16	89.99	-6,618.07	288.10	290.00	50.02	239.98	1.208 Level 2		
13,400.00	7,806.92	13,381.40	7,806.87	121.96	121.89	89.99	-6,718.06	288.70	290.00	46.57	243.43	1.191 Level 2		
13,500.00	7,806.92	13,481.40	7,806.87	123.68	123.62	89.99	-6,818.06	289.29	290.00	43.12	246.88	1.175 Level 2		
13,600.00	7,806.92	13,581.40	7,806.87	125.40	125.34	89.99	-6,918.06	289.89	290.00	39.67	250.34	1.158 Level 2		
13,700.00	7,806.92	13,681.40	7,806.86	127.12	127.07	89.99	-7,018.06	290.48	290.00	36.21	253.79	1.143 Level 2		
13,800.00	7,806.91	13,781.40	7,806.86	128.85	128.80	89.99	-7,118.06	291.07	290.01	32.75	257.25	1.127 Level 2		
13,900.00	7,806.91	13,881.40	7,806.86	130.58	130.53	89.99	-7,218.06	291.67	290.01	29.29	260.72	1.112 Level 2		
14,000.00	7,806.91	13,981.40	7,806.86	132.30	132.27	89.99	-7,318.05	292.26	290.01	25.83	264.18	1.098 Level 2		
14,100.00	7,806.91	14,081.40	7,806.85	134.03	134.00	89.99	-7,418.05	292.86	290.01	22.36	267.65	1.084 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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,181.40	7,806.85	135.76	135.73	89.99	-7,518.05	293.45	290.01	18.89	271.12	1.070	Level 2	
14,300.00	7,806.91	14,281.40	7,806.85	137.50	137.47	89.99	-7,618.05	294.05	290.01	15.42	274.59	1.056	Level 2	
14,400.00	7,806.91	14,381.40	7,806.85	139.23	139.20	89.99	-7,718.05	294.64	290.02	11.95	278.06	1.043	Level 2	
14,500.00	7,806.90	14,481.40	7,806.84	140.96	140.94	89.99	-7,818.05	295.23	290.02	8.48	281.54	1.030	Level 2	
14,600.00	7,806.90	14,581.40	7,806.84	142.70	142.68	89.99	-7,918.04	295.83	290.02	5.00	285.02	1.018	Level 2	
14,700.00	7,806.90	14,681.40	7,806.84	144.43	144.42	89.99	-8,018.04	296.42	290.02	1.53	288.50	1.005	Level 2	
14,800.00	7,806.90	14,781.40	7,806.84	146.17	146.16	89.99	-8,118.04	297.02	290.02	-1.95	291.98	0.993	Level 1	
14,900.00	7,806.90	14,881.40	7,806.83	147.91	147.90	89.99	-8,218.04	297.61	290.02	-5.43	295.46	0.982	Level 1	
15,000.00	7,806.90	14,981.40	7,806.83	149.64	149.64	89.99	-8,318.04	298.20	290.03	-8.91	298.94	0.970	Level 1	
15,100.00	7,806.89	15,081.40	7,806.83	151.38	151.38	89.99	-8,418.03	298.80	290.03	-12.40	302.43	0.959	Level 1	
15,200.00	7,806.89	15,181.40	7,806.83	153.12	153.13	89.99	-8,518.03	299.39	290.03	-15.88	305.91	0.948	Level 1	
15,300.00	7,806.89	15,281.40	7,806.82	154.86	154.87	89.99	-8,618.03	299.99	290.03	-19.37	309.40	0.937	Level 1	
15,400.00	7,806.89	15,381.40	7,806.82	156.60	156.61	89.99	-8,718.03	300.58	290.03	-22.86	312.89	0.927	Level 1	
15,500.00	7,806.89	15,481.40	7,806.82	158.35	158.36	89.99	-8,818.03	301.18	290.03	-26.34	316.38	0.917	Level 1	
15,600.00	7,806.89	15,581.40	7,806.82	160.09	160.10	89.99	-8,918.03	301.77	290.04	-29.83	319.87	0.907	Level 1	
15,700.00	7,806.89	15,681.40	7,806.81	161.83	161.85	89.99	-9,018.02	302.36	290.04	-33.32	323.36	0.897	Level 1	
15,800.00	7,806.88	15,781.40	7,806.81	163.57	163.60	89.99	-9,118.02	302.96	290.04	-36.82	326.86	0.887	Level 1	
15,900.00	7,806.88	15,881.40	7,806.81	165.32	165.34	89.99	-9,218.02	303.55	290.04	-40.31	330.35	0.878	Level 1	
16,000.00	7,806.88	15,981.40	7,806.81	167.06	167.09	89.99	-9,318.02	304.15	290.04	-43.80	333.85	0.869	Level 1	
16,100.00	7,806.88	16,081.40	7,806.80	168.81	168.84	89.99	-9,418.02	304.74	290.04	-47.30	337.34	0.860	Level 1	
16,200.00	7,806.88	16,181.40	7,806.80	170.56	170.59	89.99	-9,518.02	305.34	290.05	-50.80	340.84	0.851	Level 1	
16,300.00	7,806.88	16,281.40	7,806.80	172.30	172.34	89.98	-9,618.01	305.93	290.05	-54.29	344.34	0.842	Level 1	
16,400.00	7,806.87	16,381.40	7,806.80	174.05	174.09	89.98	-9,718.01	306.52	290.05	-57.79	347.84	0.834	Level 1	
16,500.00	7,806.87	16,481.40	7,806.79	175.80	175.84	89.98	-9,818.01	307.12	290.05	-61.29	351.34	0.826	Level 1	
16,600.00	7,806.87	16,581.40	7,806.79	177.55	177.59	89.98	-9,918.01	307.71	290.05	-64.79	354.84	0.817	Level 1	
16,700.00	7,806.87	16,681.40	7,806.79	179.30	179.34	89.98	-10,018.01	308.31	290.05	-68.29	358.35	0.809	Level 1	
16,800.00	7,806.87	16,781.40	7,806.79	181.04	181.09	89.98	-10,118.00	308.90	290.06	-71.80	361.85	0.802	Level 1	
16,900.00	7,806.87	16,881.40	7,806.78	182.79	182.84	89.98	-10,218.00	309.49	290.06	-75.30	365.36	0.794	Level 1	
17,000.00	7,806.87	16,981.40	7,806.78	184.54	184.60	89.98	-10,318.00	310.09	290.06	-78.80	368.86	0.786	Level 1	
17,100.00	7,806.86	17,081.40	7,806.78	186.30	186.35	89.98	-10,418.00	310.68	290.06	-82.31	372.37	0.779	Level 1	
17,200.00	7,806.86	17,181.40	7,806.78	188.05	188.10	89.98	-10,518.00	311.28	290.06	-85.81	375.87	0.772	Level 1	
17,300.00	7,806.86	17,281.40	7,806.77	189.80	189.86	89.98	-10,618.00	311.87	290.06	-89.32	379.38	0.765	Level 1	
17,400.00	7,806.86	17,381.40	7,806.77	191.55	191.61	89.98	-10,717.99	312.47	290.07	-92.82	382.89	0.758	Level 1	
17,500.00	7,806.86	17,481.40	7,806.77	193.30	193.37	89.98	-10,817.99	313.06	290.07	-96.33	386.40	0.751	Level 1	
17,600.00	7,806.86	17,581.40	7,806.77	195.06	195.12	89.98	-10,917.99	313.65	290.07	-99.84	389.91	0.744	Level 1	
17,700.00	7,806.85	17,681.40	7,806.76	196.81	196.87	89.98	-11,017.99	314.25	290.07	-103.35	393.42	0.737	Level 1	
17,800.00	7,806.85	17,781.40	7,806.76	198.56	198.63	89.98	-11,117.99	314.84	290.07	-106.86	396.93	0.731	Level 1	
17,898.35	7,807.00	17,880.03	7,807.01	200.29	200.36	90.00	-11,216.62	315.51	290.00	-110.40	400.40	0.724	Level 1, ES, SF	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.32	-0.20	35.99	35.99	28.55	7.44	4.838		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	4.08	90.32	-0.20	35.99	35.99	27.83	8.16	4.413 CC, ES		
1,300.00	1,300.00	1,299.17	1,299.15	4.44	4.42	92.37	-1.54	37.06	37.11	28.25	8.85	4.192		
1,400.00	1,399.98	1,398.21	1,398.05	4.78	4.75	-55.43	-5.54	40.29	39.70	30.19	9.51	4.173		
1,500.00	1,499.84	1,497.12	1,496.58	5.11	5.08	-52.96	-12.19	45.64	42.85	32.69	10.16	4.218		
1,600.00	1,599.45	1,595.90	1,594.64	5.44	5.43	-51.37	-21.47	53.12	46.48	35.67	10.81	4.301		
1,700.00	1,698.70	1,694.55	1,692.10	5.79	5.79	-50.52	-33.36	62.70	50.54	39.08	11.47	4.408		
1,800.00	1,797.47	1,793.07	1,788.84	6.15	6.16	-50.26	-47.84	74.36	55.00	42.87	12.14	4.532		
1,900.00	1,895.62	1,892.16	1,885.53	6.53	6.57	-50.69	-64.72	87.96	59.58	46.73	12.85	4.637		
1,912.93	1,908.27	1,905.09	1,898.13	6.58	6.62	-50.89	-66.98	89.78	60.06	47.11	12.95	4.639		
2,000.00	1,993.35	2,007.92	1,982.92	6.93	7.06	-52.35	-82.13	101.98	63.20	49.51	13.69	4.616		
2,100.00	2,091.07	2,092.00	2,080.31	7.34	7.43	-53.85	-99.54	116.01	66.85	52.42	14.43	4.632		
2,200.00	2,188.79	2,208.08	2,177.69	7.77	7.95	-55.20	-116.95	130.03	70.54	55.21	15.33	4.603		
2,300.00	2,286.51	2,308.16	2,275.08	8.20	8.41	-56.42	-134.35	144.05	74.26	58.09	16.17	4.591		
2,400.00	2,384.23	2,408.24	2,372.47	8.65	8.88	-57.51	-151.76	158.07	78.01	60.97	17.04	4.578		
2,500.00	2,481.95	2,491.68	2,469.85	9.10	9.28	-58.51	-169.17	172.09	81.79	63.94	17.85	4.582		
2,600.00	2,579.67	2,608.40	2,567.24	9.56	9.84	-59.42	-186.58	186.11	85.60	66.78	18.82	4.549		
2,700.00	2,677.39	2,691.51	2,664.63	10.02	10.24	-60.25	-203.98	200.14	89.42	69.77	19.65	4.550		
2,800.00	2,775.11	2,791.43	2,762.01	10.49	10.73	-61.01	-221.39	214.16	93.26	72.69	20.57	4.534		
2,900.00	2,872.83	2,891.35	2,859.40	10.96	11.22	-61.71	-238.80	228.18	97.11	75.62	21.49	4.518		
3,000.00	2,970.55	2,991.27	2,956.79	11.44	11.72	-62.36	-256.21	242.20	100.98	78.55	22.43	4.502		
3,100.00	3,068.27	3,108.81	3,054.17	11.92	12.30	-62.96	-273.61	256.22	104.86	81.41	23.45	4.471		
3,200.00	3,165.99	3,208.89	3,151.56	12.40	12.81	-63.52	-291.02	270.25	108.75	84.35	24.40	4.457		
3,300.00	3,263.71	3,308.97	3,248.95	12.88	13.31	-64.04	-308.43	284.27	112.65	87.29	25.36	4.443		
3,400.00	3,361.43	3,409.05	3,346.33	13.37	13.82	-64.52	-325.83	298.29	116.56	90.24	26.32	4.429		
3,500.00	3,459.15	3,509.13	3,443.72	13.86	14.33	-64.97	-343.24	312.31	120.48	93.19	27.28	4.416		
3,600.00	3,556.87	3,609.22	3,541.11	14.35	14.83	-65.40	-360.65	326.33	124.40	96.15	28.25	4.403		
3,700.00	3,654.59	3,709.30	3,638.49	14.84	15.35	-65.80	-378.06	340.35	128.33	99.10	29.23	4.391		
3,800.00	3,752.31	3,809.38	3,735.88	15.34	15.86	-66.17	-395.46	354.38	132.27	102.06	30.21	4.379		
3,900.00	3,850.03	3,909.46	3,833.27	15.83	16.37	-66.52	-412.87	368.40	136.21	105.02	31.19	4.368		
4,000.00	3,947.75	4,009.54	3,930.65	16.33	16.89	-66.86	-430.28	382.42	140.15	107.98	32.17	4.357		
4,100.00	4,045.47	4,109.62	4,028.04	16.83	17.40	-67.17	-447.69	396.44	144.10	110.95	33.15	4.346		
4,200.00	4,143.19	4,209.70	4,125.43	17.32	17.92	-67.47	-465.09	410.46	148.06	113.91	34.14	4.336		
4,300.00	4,240.91	4,309.78	4,222.81	17.82	18.44	-67.75	-482.50	424.48	152.02	116.88	35.13	4.327		
4,400.00	4,338.63	4,409.86	4,320.20	18.32	18.95	-68.02	-499.91	438.51	155.98	119.85	36.13	4.318		
4,500.00	4,436.35	4,509.95	4,417.59	18.82	19.47	-68.27	-517.31	452.53	159.94	122.82	37.12	4.309		
4,600.00	4,534.07	4,589.97	4,514.97	19.33	19.89	-68.52	-534.72	466.55	163.91	125.89	38.02	4.311		
4,700.00	4,631.79	4,689.89	4,612.36	19.83	20.41	-68.75	-552.13	480.57	167.88	128.87	39.02	4.303		
4,800.00	4,729.51	4,789.81	4,709.75	20.33	20.93	-68.97	-569.54	494.59	171.85	131.84	40.01	4.295		
4,900.00	4,827.23	4,889.73	4,807.13	20.83	21.45	-69.18	-586.94	508.62	175.83	134.82	41.01	4.287		
5,000.00	4,924.95	4,989.65	4,904.52	21.34	21.97	-69.38	-604.35	522.64	179.81	137.79	42.01	4.280		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,089.57	5,001.91	21.84	22.49	-69.57	-621.76	536.66	183.79	140.77	43.02	4.273		
5,200.00	5,120.39	5,189.49	5,099.29	22.35	23.01	-69.76	-639.17	550.68	187.77	143.75	44.02	4.266		
5,300.00	5,218.11	5,289.41	5,196.68	22.85	23.53	-69.93	-656.57	564.70	191.76	146.73	45.02	4.259		
5,400.00	5,315.83	5,389.32	5,294.07	23.36	24.05	-70.10	-673.98	578.72	195.74	149.71	46.03	4.253		
5,500.00	5,413.55	5,489.24	5,391.45	23.86	24.58	-70.26	-691.39	592.75	199.73	152.69	47.03	4.246		
5,600.00	5,511.27	5,589.16	5,488.84	24.37	25.10	-70.42	-708.79	606.77	203.72	155.68	48.04	4.240		
5,700.00	5,608.99	5,689.08	5,586.23	24.88	25.62	-70.57	-726.20	620.79	207.71	158.66	49.05	4.235		
5,800.00	5,706.71	5,789.00	5,683.61	25.38	26.14	-70.72	-743.61	634.81	211.70	161.64	50.06	4.229		
5,900.00	5,804.43	5,888.92	5,781.00	25.89	26.67	-70.85	-761.02	648.83	215.69	164.63	51.07	4.224		
6,000.00	5,902.15	5,988.84	5,878.39	26.40	27.19	-70.99	-778.42	662.85	219.69	167.61	52.08	4.219		
6,100.00	5,999.87	6,088.76	5,975.77	26.91	27.72	-71.12	-795.83	676.88	223.68	170.60	53.09	4.214		
6,200.00	6,097.59	6,188.68	6,073.16	27.42	28.24	-71.24	-813.24	690.90	227.68	173.58	54.10	4.209		
6,300.00	6,195.30	6,288.59	6,170.55	27.92	28.77	-71.36	-830.65	704.92	231.68	176.57	55.11	4.204		
6,400.00	6,293.02	6,388.51	6,267.93	28.43	29.29	-71.48	-848.05	718.94	235.68	179.56	56.12	4.199		
6,500.00	6,390.74	6,488.43	6,365.32	28.94	29.81	-71.59	-865.46	732.96	239.68	182.54	57.13	4.195		
6,600.00	6,488.46	6,588.35	6,462.71	29.45	30.34	-71.70	-882.87	746.98	243.68	185.53	58.15	4.191		
6,638.14	6,525.73	6,626.46	6,499.85	29.64	30.54	-71.74	-889.51	752.33	245.20	186.67	58.53	4.189		
6,700.00	6,586.32	6,688.26	6,560.08	29.95	30.86	-71.71	-900.27	761.01	247.89	188.75	59.13	4.192		
6,800.00	6,684.79	6,788.07	6,657.36	30.42	31.39	-71.07	-917.66	775.01	253.13	193.14	59.99	4.220		
6,900.00	6,783.81	6,887.66	6,754.43	30.85	31.91	-69.77	-935.01	788.99	259.61	198.90	60.70	4.277		
7,000.00	6,883.25	6,992.08	6,856.61	31.24	32.44	-68.09	-951.75	802.47	266.57	205.22	61.35	4.345		
7,100.00	6,983.00	7,096.93	6,959.93	31.60	32.93	-66.46	-965.62	813.64	273.13	211.22	61.91	4.412		
7,200.00	7,082.93	7,202.20	7,064.25	31.92	33.37	-64.86	-976.58	822.47	279.27	216.89	62.38	4.477		
7,251.07	7,134.00	7,256.12	7,117.86	32.06	33.57	87.24	-981.04	826.06	282.25	219.68	62.57	4.511		
7,300.00	7,182.93	7,307.92	7,169.46	32.19	33.77	87.98	-984.57	828.91	284.81	222.05	62.75	4.539		
7,351.07	7,234.00	7,362.14	7,223.55	32.32	33.95	88.59	-987.50	831.27	286.95	224.00	62.95	4.558		
7,400.00	7,282.87	7,414.21	7,275.55	32.47	34.13	-90.94	-989.56	832.93	288.49	225.24	63.26	4.561		
7,450.00	7,332.44	7,467.13	7,328.44	32.67	34.29	-91.91	-990.90	834.00	289.64	225.85	63.79	4.541		
7,500.00	7,381.26	7,519.11	7,380.42	32.90	34.44	-93.89	-991.47	834.47	290.61	226.09	64.52	4.504		
7,550.00	7,428.96	7,567.65	7,428.96	33.18	34.56	-96.58	-991.50	834.49	292.07	226.65	65.42	4.464		
7,600.00	7,475.17	7,613.87	7,475.17	33.48	34.68	-99.69	-991.50	834.49	295.00	228.57	66.43	4.441		
7,650.00	7,519.55	7,662.07	7,523.36	33.82	34.82	-103.30	-992.20	834.49	299.95	232.50	67.44	4.447		
7,700.00	7,561.76	7,714.77	7,575.81	34.20	35.00	-107.05	-997.23	834.52	306.54	238.21	68.33	4.486		
7,750.00	7,601.47	7,770.25	7,630.27	34.60	35.23	-110.67	-1,007.69	834.58	314.51	245.48	69.03	4.556		
7,800.00	7,638.39	7,828.86	7,686.41	35.04	35.53	-114.13	-1,024.41	834.68	323.58	254.09	69.49	4.656		
7,850.00	7,672.23	7,890.99	7,743.74	35.50	35.88	-117.40	-1,048.30	834.83	333.43	263.79	69.64	4.788		
7,900.00	7,702.74	7,957.03	7,801.45	35.99	36.31	-120.45	-1,080.33	835.02	343.67	274.26	69.40	4.952		
7,950.00	7,729.67	8,027.32	7,858.39	36.50	36.83	-123.25	-1,121.47	835.26	353.88	285.13	68.75	5.147		
8,000.00	7,752.84	8,102.10	7,912.96	37.04	37.43	-125.75	-1,172.52	835.56	363.62	295.97	67.65	5.375		
8,050.00	7,772.06	8,181.42	7,963.04	37.60	38.15	-127.90	-1,233.94	835.93	372.43	306.29	66.14	5.631		
8,100.00	7,787.18	8,265.06	8,006.14	38.17	38.96	-129.66	-1,305.53	836.35	379.85	315.53	64.32	5.906		
8,150.00	7,798.10	8,352.43	8,039.55	38.76	39.87	-130.95	-1,386.18	836.83	385.47	323.08	62.39	6.178		
8,200.00	7,804.72	8,442.57	8,060.76	39.36	40.85	-131.74	-1,473.69	837.35	388.95	328.31	60.64	6.414		
8,251.15	7,807.00	8,536.28	8,067.99	39.97	41.90	-132.00	-1,567.01	837.90	390.07	330.70	59.37	6.571		
8,253.59	7,807.00	8,540.76	8,067.96	40.00	41.96	-131.99	-1,571.49	837.93	390.05	330.73	59.32	6.575		
8,300.00	7,807.00	8,583.99	8,068.00	40.56	42.45	-132.00	-1,614.72	838.19	390.07	329.78	60.29	6.470		
8,400.00	7,807.00	8,683.99	8,068.00	41.80	43.63	-132.00	-1,714.72	838.78	390.07	327.94	62.13	6.278		
8,500.00	7,807.00	8,783.99	8,068.00	43.08	44.84	-132.00	-1,814.71	839.37	390.07	326.02	64.05	6.090		
8,600.00	7,806.99	8,883.99	8,067.99	44.40	46.10	-132.00	-1,914.71	839.96	390.06	324.04	66.03	5.908		
8,700.00	7,806.99	8,983.99	8,067.99	45.74	47.38	-132.00	-2,014.71	840.56	390.06	321.99	68.07	5.730		
8,800.00	7,806.99	9,083.99	8,067.99	47.11	48.70	-132.00	-2,114.71	841.15	390.06	319.89	70.17	5.559		
8,900.00	7,806.99	9,183.99	8,067.99	48.51	50.04	-132.00	-2,214.70	841.75	390.06	317.74	72.31	5.394		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,283.99	8,067.99	49.93	51.41	-132.00	-2,314.70	842.34	390.06	315.55	74.51	5.235		
9,100.00	7,806.99	9,383.99	8,067.99	51.38	52.80	-132.00	-2,414.70	842.93	390.05	313.31	76.74	5.083		
9,200.00	7,806.99	9,483.99	8,067.98	52.84	54.22	-132.00	-2,514.70	843.53	390.05	311.03	79.02	4.936		
9,300.00	7,806.98	9,583.98	8,067.98	54.32	55.65	-132.00	-2,614.70	844.12	390.05	308.72	81.33	4.796		
9,400.00	7,806.98	9,683.98	8,067.98	55.82	57.11	-132.00	-2,714.69	844.71	390.05	306.38	83.67	4.662		
9,500.00	7,806.98	9,783.98	8,067.98	57.34	58.58	-132.00	-2,814.69	845.31	390.05	304.01	86.04	4.533		
9,600.00	7,806.98	9,883.98	8,067.98	58.87	60.07	-132.00	-2,914.69	845.90	390.05	301.61	88.44	4.410		
9,700.00	7,806.98	9,983.98	8,067.98	60.41	61.57	-132.00	-3,014.69	846.50	390.05	299.18	90.86	4.293		
9,800.00	7,806.98	10,083.98	8,067.98	61.96	63.09	-132.00	-3,114.69	847.09	390.05	296.74	93.31	4.180		
9,900.00	7,806.97	10,183.98	8,067.97	63.53	64.62	-132.00	-3,214.68	847.69	390.05	294.27	95.78	4.072		
10,000.00	7,806.97	10,283.98	8,067.97	65.10	66.16	-132.00	-3,314.68	848.28	390.05	291.78	98.27	3.969		
10,100.00	7,806.97	10,383.98	8,067.97	66.69	67.71	-132.00	-3,414.68	848.88	390.04	289.27	100.78	3.870		
10,200.00	7,806.97	10,483.98	8,067.97	68.29	69.28	-132.00	-3,514.68	849.47	390.04	286.75	103.30	3.776		
10,300.00	7,806.97	10,583.98	8,067.97	69.89	70.85	-132.00	-3,614.68	850.07	390.04	284.21	105.84	3.685		
10,400.00	7,806.97	10,683.98	8,067.97	71.50	72.43	-132.00	-3,714.67	850.66	390.04	281.65	108.39	3.598		
10,500.00	7,806.97	10,783.98	8,067.97	73.12	74.02	-132.00	-3,814.67	851.26	390.04	279.08	110.96	3.515		
10,600.00	7,806.96	10,883.98	8,067.97	74.75	75.62	-132.00	-3,914.67	851.85	390.04	276.50	113.54	3.435		
10,700.00	7,806.96	10,983.98	8,067.97	76.38	77.23	-132.00	-4,014.67	852.45	390.04	273.91	116.13	3.359		
10,706.02	7,806.96	11,010.00	8,067.97	76.48	77.65	-132.00	-4,020.69	852.48	390.04	273.49	116.55	3.347		
10,800.00	7,806.96	11,083.98	8,067.97	78.02	78.84	-132.00	-4,114.66	853.04	390.04	271.31	118.74	3.285		
10,900.00	7,806.96	11,183.98	8,067.96	79.66	80.47	-132.00	-4,214.66	853.64	390.04	268.69	121.35	3.214		
11,000.00	7,806.96	11,283.98	8,067.96	81.31	82.09	-132.00	-4,314.66	854.23	390.04	266.07	123.98	3.146		
11,100.00	7,806.96	11,383.98	8,067.96	82.97	83.73	-132.00	-4,414.66	854.83	390.04	263.44	126.61	3.081		
11,200.00	7,806.95	11,483.98	8,067.96	84.63	85.36	-132.00	-4,514.66	855.42	390.04	260.79	129.25	3.018		
11,300.00	7,806.95	11,583.98	8,067.96	86.29	87.01	-132.00	-4,614.65	856.02	390.04	258.15	131.90	2.957		
11,400.00	7,806.95	11,683.98	8,067.96	87.96	88.66	-132.00	-4,714.65	856.61	390.05	255.49	134.56	2.899		
11,500.00	7,806.95	11,783.98	8,067.96	89.64	90.31	-132.00	-4,814.65	857.21	390.05	252.83	137.22	2.842		
11,600.00	7,806.95	11,883.98	8,067.96	91.31	91.97	-132.00	-4,914.65	857.81	390.05	250.16	139.89	2.788		
11,700.00	7,806.95	11,983.98	8,067.96	92.99	93.63	-132.00	-5,014.65	858.40	390.05	247.48	142.57	2.736		
11,800.00	7,806.95	12,083.98	8,067.96	94.68	95.30	-132.00	-5,114.64	859.00	390.05	244.80	145.25	2.685		
11,900.00	7,806.94	12,183.98	8,067.96	96.36	96.97	-132.00	-5,214.64	859.60	390.05	242.11	147.94	2.637		
12,000.00	7,806.94	12,283.98	8,067.96	98.05	98.64	-132.00	-5,314.64	860.19	390.05	239.42	150.64	2.589		
12,100.00	7,806.94	12,383.97	8,067.96	99.74	100.32	-132.00	-5,414.64	860.79	390.05	236.72	153.33	2.544		
12,200.00	7,806.94	12,483.97	8,067.96	101.44	102.00	-132.00	-5,514.63	861.39	390.05	234.01	156.04	2.500		
12,300.00	7,806.94	12,583.97	8,067.96	103.14	103.68	-132.00	-5,614.63	861.98	390.05	231.31	158.75	2.457		
12,400.00	7,806.94	12,683.97	8,067.96	104.84	105.37	-132.00	-5,714.63	862.58	390.06	228.60	161.46	2.416		
12,500.00	7,806.93	12,783.97	8,067.96	106.54	107.06	-132.00	-5,814.63	863.18	390.06	225.88	164.18	2.376		
12,600.00	7,806.93	12,883.97	8,067.96	108.25	108.75	-132.00	-5,914.63	863.77	390.06	223.16	166.90	2.337		
12,700.00	7,806.93	12,983.97	8,067.96	109.95	110.44	-132.00	-6,014.62	864.37	390.06	220.44	169.62	2.300		
12,800.00	7,806.93	13,083.97	8,067.96	111.66	112.14	-132.00	-6,114.62	864.97	390.06	217.71	172.35	2.263		
12,900.00	7,806.93	13,183.97	8,067.96	113.37	113.84	-132.00	-6,214.62	865.56	390.07	214.98	175.09	2.228		
13,000.00	7,806.93	13,283.97	8,067.96	115.09	115.54	-132.00	-6,314.62	866.16	390.07	212.25	177.82	2.194		
13,100.00	7,806.93	13,383.97	8,067.96	116.80	117.24	-132.00	-6,414.62	866.76	390.07	209.51	180.56	2.160		
13,200.00	7,806.92	13,483.97	8,067.96	118.52	118.95	-132.00	-6,514.61	867.36	390.07	206.77	183.30	2.128		
13,300.00	7,806.92	13,583.97	8,067.96	120.24	120.66	-132.00	-6,614.61	867.95	390.07	204.03	186.04	2.097		
13,400.00	7,806.92	13,683.97	8,067.96	121.96	122.37	-132.00	-6,714.61	868.55	390.08	201.29	188.79	2.066		
13,500.00	7,806.92	13,783.97	8,067.96	123.68	124.08	-132.00	-6,814.61	869.15	390.08	198.54	191.54	2.037		
13,600.00	7,806.92	13,883.97	8,067.96	125.40	125.79	-132.00	-6,914.60	869.75	390.08	195.79	194.29	2.008		
13,700.00	7,806.92	13,983.97	8,067.96	127.12	127.50	-132.00	-7,014.60	870.34	390.08	193.04	197.05	1.980		
13,800.00	7,806.91	14,083.97	8,067.96	128.85	129.22	-132.00	-7,114.60	870.94	390.09	190.28	199.80	1.952		
13,900.00	7,806.91	14,183.97	8,067.96	130.58	130.94	-132.00	-7,214.60	871.54	390.09	187.53	202.56	1.926		
14,000.00	7,806.91	14,283.97	8,067.96	132.30	132.66	-132.00	-7,314.60	872.14	390.09	184.77	205.32	1.900		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,383.97	8,067.96	134.03	134.38	-132.00	-7,414.59	872.74	390.10	182.01	208.09	1.875		
14,200.00	7,806.91	14,483.97	8,067.96	135.76	136.10	-132.00	-7,514.59	873.34	390.10	179.25	210.85	1.850		
14,300.00	7,806.91	14,583.97	8,067.96	137.50	137.82	-132.00	-7,614.59	873.93	390.10	176.48	213.62	1.826		
14,400.00	7,806.91	14,683.97	8,067.96	139.23	139.55	-132.00	-7,714.59	874.53	390.11	173.72	216.39	1.803		
14,500.00	7,806.90	14,783.97	8,067.96	140.96	141.27	-132.00	-7,814.59	875.13	390.11	170.95	219.16	1.780		
14,600.00	7,806.90	14,883.97	8,067.96	142.70	143.00	-132.00	-7,914.58	875.73	390.11	168.18	221.93	1.758		
14,700.00	7,806.90	14,983.97	8,067.96	144.43	144.73	-132.00	-8,014.58	876.33	390.12	165.41	224.70	1.736		
14,800.00	7,806.90	15,083.97	8,067.96	146.17	146.46	-132.00	-8,114.58	876.93	390.12	162.64	227.48	1.715		
14,900.00	7,806.90	15,183.96	8,067.96	147.91	148.19	-132.00	-8,214.58	877.53	390.13	159.87	230.25	1.694		
15,000.00	7,806.90	15,283.96	8,067.96	149.64	149.92	-132.00	-8,314.57	878.13	390.13	157.10	233.03	1.674		
15,100.00	7,806.89	15,383.96	8,067.96	151.38	151.65	-132.00	-8,414.57	878.73	390.13	154.32	235.81	1.654		
15,200.00	7,806.89	15,483.96	8,067.96	153.12	153.38	-132.00	-8,514.57	879.32	390.14	151.54	238.59	1.635		
15,300.00	7,806.89	15,583.96	8,067.96	154.86	155.12	-132.00	-8,614.57	879.92	390.14	148.77	241.38	1.616		
15,400.00	7,806.89	15,683.96	8,067.97	156.60	156.85	-132.00	-8,714.57	880.52	390.15	145.99	244.16	1.598		
15,500.00	7,806.89	15,783.96	8,067.97	158.35	158.59	-132.00	-8,814.56	881.12	390.15	143.21	246.94	1.580		
15,600.00	7,806.89	15,883.96	8,067.97	160.09	160.32	-132.00	-8,914.56	881.72	390.15	140.43	249.73	1.562		
15,700.00	7,806.89	15,983.96	8,067.97	161.83	162.06	-132.00	-9,014.56	882.32	390.16	137.64	252.52	1.545		
15,800.00	7,806.88	16,083.96	8,067.97	163.57	163.80	-132.00	-9,114.56	882.92	390.16	134.86	255.30	1.528		
15,900.00	7,806.88	16,183.96	8,067.97	165.32	165.54	-132.00	-9,214.56	883.52	390.17	132.08	258.09	1.512		
16,000.00	7,806.88	16,283.96	8,067.97	167.06	167.28	-132.00	-9,314.55	884.12	390.17	129.29	260.88	1.496 Level 3		
16,100.00	7,806.88	16,383.96	8,067.97	168.81	169.02	-132.00	-9,414.55	884.72	390.18	126.50	263.67	1.480 Level 3		
16,200.00	7,806.88	16,483.96	8,067.97	170.56	170.76	-132.00	-9,514.55	885.32	390.18	123.72	266.47	1.464 Level 3		
16,300.00	7,806.88	16,583.96	8,067.98	172.30	172.50	-132.00	-9,614.55	885.92	390.19	120.93	269.26	1.449 Level 3		
16,400.00	7,806.87	16,683.96	8,067.98	174.05	174.24	-132.00	-9,714.54	886.52	390.19	118.14	272.05	1.434 Level 3		
16,500.00	7,806.87	16,783.96	8,067.98	175.80	175.98	-132.00	-9,814.54	887.12	390.20	115.35	274.85	1.420 Level 3		
16,600.00	7,806.87	16,883.96	8,067.98	177.55	177.73	-132.00	-9,914.54	887.72	390.20	112.56	277.64	1.405 Level 3		
16,700.00	7,806.87	16,983.96	8,067.98	179.30	179.47	-132.00	-10,014.54	888.32	390.21	109.77	280.44	1.391 Level 3		
16,800.00	7,806.87	17,083.96	8,067.98	181.04	181.21	-132.00	-10,114.54	888.93	390.22	106.98	283.24	1.378 Level 3		
16,900.00	7,806.87	17,183.96	8,067.98	182.79	182.96	-132.00	-10,214.53	889.53	390.22	104.19	286.04	1.364 Level 3		
17,000.00	7,806.87	17,283.96	8,067.99	184.54	184.71	-132.00	-10,314.53	890.13	390.23	101.39	288.83	1.351 Level 3		
17,100.00	7,806.86	17,383.96	8,067.99	186.30	186.45	-132.00	-10,414.53	890.73	390.23	98.60	291.63	1.338 Level 3		
17,200.00	7,806.86	17,483.96	8,067.99	188.05	188.20	-132.00	-10,514.53	891.33	390.24	95.80	294.43	1.325 Level 3		
17,300.00	7,806.86	17,583.96	8,067.99	189.80	189.95	-132.00	-10,614.52	891.93	390.25	93.01	297.24	1.313 Level 3		
17,400.00	7,806.86	17,683.96	8,067.99	191.55	191.69	-132.00	-10,714.52	892.53	390.25	90.21	300.04	1.301 Level 3		
17,500.00	7,806.86	17,783.96	8,067.99	193.30	193.44	-132.00	-10,814.52	893.13	390.26	87.42	302.84	1.289 Level 3		
17,600.00	7,806.86	17,883.95	8,067.99	195.06	195.19	-132.00	-10,914.52	893.73	390.26	84.62	305.64	1.277 Level 3		
17,700.00	7,806.85	17,983.95	8,068.00	196.81	196.94	-132.00	-11,014.52	894.34	390.27	81.82	308.45	1.265 Level 3		
17,800.00	7,806.85	18,083.95	8,068.00	198.56	198.69	-132.00	-11,114.51	894.94	390.28	79.03	311.25	1.254 Level 3		
17,897.31	7,806.85	18,181.26	8,068.00	200.27	200.39	-132.00	-11,211.82	895.52	390.28	76.30	313.98	1.243 Level 2		
17,898.35	7,807.00	18,182.31	8,068.00	200.29	200.41	-131.98	-11,212.86	895.53	390.18	76.11	314.07	1.242 Level 2, SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.40	71.98	71.98	65.97	6.00	11.988		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.32	-0.40	71.98	71.98	65.26	6.72	10.709		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	3.72	90.32	-0.40	71.98	71.98	64.54	7.44	9.677 CC, ES		
1,200.00	1,200.00	1,198.15	1,198.13	4.08	4.06	91.21	-1.55	73.20	73.24	65.11	8.13	9.007		
1,300.00	1,300.00	1,296.08	1,295.92	4.44	4.38	93.71	-4.99	76.87	77.14	68.33	8.81	8.757		
1,400.00	1,399.98	1,393.69	1,393.18	4.78	4.72	-54.81	-10.69	82.94	82.90	73.43	9.46	8.758		
1,500.00	1,499.84	1,491.06	1,489.84	5.11	5.06	-52.91	-18.64	91.41	89.50	79.40	10.10	8.859		
1,600.00	1,599.45	1,588.16	1,585.80	5.44	5.42	-51.76	-28.80	102.23	96.85	86.10	10.74	9.013		
1,700.00	1,698.70	1,684.99	1,680.94	5.79	5.79	-51.21	-41.14	115.38	104.86	93.47	11.39	9.204		
1,800.00	1,797.47	1,781.55	1,775.14	6.15	6.19	-51.14	-55.62	130.81	113.50	101.45	12.05	9.416		
1,900.00	1,895.62	1,878.19	1,868.66	6.53	6.62	-51.45	-72.28	148.56	122.75	110.01	12.74	9.632		
1,912.93	1,908.27	1,908.93	1,881.08	6.58	6.76	-51.54	-74.61	151.04	123.93	111.02	12.91	9.598		
2,000.00	1,993.35	1,977.77	1,964.69	6.93	7.08	-52.26	-90.31	167.76	131.77	118.24	13.53	9.742		
2,100.00	2,091.07	2,077.34	2,060.72	7.34	7.57	-52.99	-108.34	186.97	140.79	126.46	14.33	9.824		
2,200.00	2,188.79	2,176.92	2,156.75	7.77	8.06	-53.63	-126.36	206.18	149.84	134.68	15.16	9.884		
2,300.00	2,286.51	2,276.50	2,252.77	8.20	8.57	-54.20	-144.39	225.39	158.90	142.89	16.00	9.929		
2,400.00	2,384.23	2,376.07	2,348.80	8.65	9.09	-54.71	-162.42	244.60	167.97	151.11	16.86	9.960		
2,500.00	2,481.95	2,475.65	2,444.83	9.10	9.61	-55.16	-180.45	263.81	177.06	159.32	17.74	9.982		
2,600.00	2,579.67	2,575.23	2,540.86	9.56	10.15	-55.57	-198.48	283.02	186.16	167.53	18.62	9.995		
2,700.00	2,677.39	2,674.80	2,636.89	10.02	10.68	-55.95	-216.51	302.23	195.26	175.74	19.52	10.003		
2,800.00	2,775.11	2,774.38	2,732.92	10.49	11.23	-56.29	-234.54	321.44	204.37	183.95	20.43	10.005		
2,900.00	2,872.83	2,873.96	2,828.95	10.96	11.77	-56.60	-252.57	340.65	213.49	192.15	21.34	10.005		
3,000.00	2,970.55	2,973.54	2,924.98	11.44	12.33	-56.88	-270.60	359.86	222.62	200.36	22.26	10.001		
3,100.00	3,068.27	3,073.11	3,021.00	11.92	12.88	-57.14	-288.63	379.07	231.74	208.56	23.19	9.995		
3,200.00	3,165.99	3,172.69	3,117.03	12.40	13.44	-57.39	-306.66	398.27	240.88	216.76	24.12	9.987		
3,300.00	3,263.71	3,272.27	3,213.06	12.88	14.00	-57.61	-324.69	417.48	250.02	224.96	25.06	9.978		
3,400.00	3,361.43	3,371.84	3,309.09	13.37	14.56	-57.82	-342.72	436.69	259.16	233.16	26.00	9.968		
3,500.00	3,459.15	3,471.42	3,405.12	13.86	15.12	-58.02	-360.75	455.90	268.30	241.36	26.95	9.957		
3,600.00	3,556.87	3,571.00	3,501.15	14.35	15.69	-58.20	-378.78	475.11	277.45	249.55	27.90	9.946		
3,700.00	3,654.59	3,670.57	3,597.18	14.84	16.25	-58.37	-396.81	494.32	286.60	257.75	28.85	9.934		
3,800.00	3,752.31	3,770.15	3,693.21	15.34	16.82	-58.53	-414.84	513.53	295.75	265.95	29.81	9.923		
3,900.00	3,850.03	3,869.73	3,789.23	15.83	17.39	-58.68	-432.87	532.74	304.91	274.14	30.76	9.911		
4,000.00	3,947.75	3,969.31	3,885.26	16.33	17.96	-58.82	-450.90	551.95	314.06	282.34	31.73	9.899		
4,100.00	4,045.47	4,068.88	3,981.29	16.83	18.53	-58.95	-468.93	571.16	323.22	290.53	32.69	9.887		
4,200.00	4,143.19	4,168.46	4,077.32	17.32	19.10	-59.08	-486.96	590.37	332.38	298.73	33.66	9.876		
4,300.00	4,240.91	4,268.04	4,173.35	17.82	19.68	-59.20	-504.99	609.58	341.54	306.92	34.63	9.864		
4,400.00	4,338.63	4,367.61	4,269.38	18.32	20.25	-59.31	-523.02	628.79	350.71	315.11	35.60	9.853		
4,500.00	4,436.35	4,467.19	4,365.41	18.82	20.83	-59.42	-541.05	647.99	359.87	323.30	36.57	9.841		
4,600.00	4,534.07	4,566.77	4,461.43	19.33	21.40	-59.52	-559.08	667.20	369.04	331.50	37.54	9.830		
4,700.00	4,631.79	4,666.34	4,557.46	19.83	21.98	-59.62	-577.11	686.41	378.20	339.69	38.51	9.820		
4,800.00	4,729.51	4,765.92	4,653.49	20.33	22.55	-59.71	-595.14	705.62	387.37	347.88	39.49	9.809		
4,900.00	4,827.23	4,865.50	4,749.52	20.83	23.13	-59.80	-613.17	724.83	396.54	356.07	40.47	9.799		
5,000.00	4,924.95	4,965.08	4,845.55	21.34	23.71	-59.88	-631.20	744.04	405.71	364.26	41.45	9.789		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 33S-20-6N - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error: 0.00 usft	
Survey Program: 0-MWD OWSG													Offset Well Error: 0.00 usft			
Reference		Offset		Semi Major Axis			Distance							Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
5,100.00	5,022.67	5,064.65	4,941.58	21.84	24.29	-59.96	-649.23	763.25	414.88	372.45	42.43	9.779				
5,200.00	5,120.39	5,164.23	5,037.61	22.35	24.87	-60.04	-667.26	782.46	424.05	380.64	43.41	9.769				
5,300.00	5,218.11	5,263.81	5,133.64	22.85	25.45	-60.11	-685.29	801.67	433.22	388.83	44.39	9.760				
5,400.00	5,315.83	5,363.38	5,229.66	23.36	26.03	-60.18	-703.32	820.88	442.39	397.02	45.37	9.751				
5,500.00	5,413.55	5,462.96	5,325.69	23.86	26.60	-60.25	-721.35	840.09	451.57	405.21	46.35	9.742				
5,600.00	5,511.27	5,562.54	5,421.72	24.37	27.18	-60.32	-739.37	859.30	460.74	413.40	47.34	9.733				
5,700.00	5,608.99	5,662.11	5,517.75	24.88	27.76	-60.38	-757.40	878.50	469.91	421.59	48.32	9.725				
5,800.00	5,706.71	5,761.69	5,613.78	25.38	28.35	-60.44	-775.43	897.71	479.09	429.78	49.31	9.716				
5,900.00	5,804.43	5,861.27	5,709.81	25.89	28.93	-60.50	-793.46	916.92	488.26	437.97	50.29	9.708				
6,000.00	5,902.15	5,960.85	5,805.84	26.40	29.51	-60.55	-811.49	936.13	497.44	446.16	51.28	9.700				
6,100.00	5,999.87	6,060.42	5,901.87	26.91	30.09	-60.61	-829.52	955.34	506.62	454.35	52.27	9.693				
6,200.00	6,097.59	6,160.00	5,997.89	27.42	30.67	-60.66	-847.55	974.55	515.79	462.54	53.25	9.685				
6,300.00	6,195.30	6,259.58	6,093.92	27.92	31.25	-60.71	-865.58	993.76	524.97	470.73	54.24	9.678				
6,400.00	6,293.02	6,359.15	6,189.95	28.43	31.83	-60.76	-883.61	1,012.97	534.15	478.92	55.23	9.671				
6,500.00	6,390.74	6,458.73	6,285.98	28.94	32.42	-60.80	-901.64	1,032.18	543.33	487.10	56.22	9.664				
6,600.00	6,488.46	6,559.31	6,382.98	29.45	33.00	-60.85	-919.85	1,051.58	552.50	495.28	57.22	9.655				
6,638.14	6,525.73	6,603.54	6,425.75	29.64	33.26	-60.90	-927.56	1,059.79	555.72	498.05	57.67	9.637				
6,700.00	6,586.32	6,675.40	6,495.60	29.95	33.64	-61.10	-939.12	1,072.10	560.35	501.99	58.36	9.601				
6,800.00	6,684.79	6,791.80	6,609.57	30.42	34.23	-61.37	-955.29	1,089.33	566.83	507.42	59.41	9.541				
6,900.00	6,783.81	6,908.46	6,724.65	30.85	34.76	-61.58	-968.30	1,103.20	572.03	511.69	60.35	9.479				
7,000.00	6,883.25	7,025.32	6,840.62	31.24	35.22	-61.74	-978.11	1,113.65	575.95	514.78	61.17	9.416				
7,100.00	6,983.00	7,142.31	6,957.22	31.60	35.63	-61.85	-984.68	1,120.65	578.57	516.69	61.88	9.350				
7,200.00	7,082.93	7,259.40	7,074.19	31.92	35.98	-61.90	-987.99	1,124.18	579.89	517.41	62.48	9.281				
7,251.07	7,134.00	7,319.21	7,134.00	32.06	36.14	89.39	-988.42	1,124.63	580.06	517.32	62.74	9.245				
7,300.00	7,182.93	7,368.14	7,182.93	32.19	36.25	89.39	-988.42	1,124.63	580.06	517.06	63.00	9.207				
7,351.07	7,234.00	7,419.21	7,234.00	32.32	36.37	89.39	-988.42	1,124.63	580.06	516.79	63.27	9.168				
7,351.07	7,234.00	7,419.21	7,234.00	32.32	36.37	89.39	-988.42	1,124.63	580.06	516.79	63.27	9.168				
7,400.00	7,282.87	7,468.37	7,283.10	32.47	36.51	-90.27	-990.52	1,124.64	580.06	516.48	63.58	9.123				
7,450.00	7,332.44	7,518.60	7,332.89	32.67	36.69	-90.26	-997.02	1,124.68	580.06	516.09	63.98	9.067				
7,500.00	7,381.26	7,568.83	7,381.93	32.90	36.89	-90.26	-1,007.84	1,124.75	580.06	515.61	64.45	9.000				
7,550.00	7,428.96	7,619.06	7,429.82	33.18	37.13	-90.25	-1,022.92	1,124.84	580.06	515.07	65.00	8.925				
7,600.00	7,475.17	7,669.28	7,476.20	33.48	37.40	-90.24	-1,042.12	1,124.95	580.06	514.45	65.61	8.841				
7,650.00	7,519.55	7,719.48	7,520.72	33.82	37.69	-90.23	-1,065.31	1,125.09	580.06	513.77	66.30	8.750				
7,700.00	7,561.76	7,769.68	7,563.02	34.20	38.02	-90.22	-1,092.30	1,125.25	580.07	513.02	67.05	8.651				
7,750.00	7,601.47	7,819.87	7,602.80	34.60	38.37	-90.20	-1,122.87	1,125.44	580.07	512.20	67.86	8.547				
7,800.00	7,638.39	7,870.04	7,639.73	35.04	38.75	-90.19	-1,156.81	1,125.64	580.07	511.32	68.74	8.438				
7,850.00	7,672.23	7,920.20	7,673.55	35.50	39.15	-90.17	-1,193.82	1,125.86	580.07	510.39	69.68	8.325				
7,900.00	7,702.74	7,970.34	7,704.00	35.99	39.58	-90.15	-1,233.65	1,126.10	580.07	509.40	70.67	8.208				
7,950.00	7,729.67	8,020.47	7,730.84	36.50	40.04	-90.13	-1,275.96	1,126.36	580.07	508.36	71.71	8.089				
8,000.00	7,752.84	8,070.57	7,753.87	37.04	40.51	-90.11	-1,320.44	1,126.62	580.07	507.28	72.79	7.969				
8,050.00	7,772.06	8,120.66	7,772.92	37.60	41.00	-90.09	-1,366.75	1,126.90	580.07	506.16	73.92	7.848				
8,100.00	7,787.18	8,170.73	7,787.85	38.17	41.51	-90.07	-1,414.52	1,127.19	580.08	505.00	75.07	7.727				
8,150.00	7,798.10	8,220.78	7,798.56	38.76	42.03	-90.05	-1,463.40	1,127.48	580.08	503.83	76.25	7.607				
8,200.00	7,804.72	8,270.81	7,804.95	39.36	42.57	-90.02	-1,513.00	1,127.78	580.08	502.63	77.45	7.490				
8,251.15	7,807.00	8,321.97	7,807.00	39.97	43.12	-90.00	-1,564.10	1,128.08	580.08	501.40	78.68	7.373				
8,300.00	7,807.00	8,370.82	7,807.00	40.56	43.66	-90.00	-1,612.95	1,128.38	580.08	500.22	79.87	7.263				
8,400.00	7,807.00	8,470.82	7,807.00	41.80	44.79	-90.00	-1,712.95	1,128.98	580.09	497.73	82.36	7.044				
8,500.00	7,807.00	8,570.82	7,806.99	43.08	45.96	-90.00	-1,812.95	1,129.58	580.09	495.17	84.92	6.831				
8,600.00	7,806.99	8,670.82	7,806.99	44.40	47.17	-90.00	-1,912.95	1,130.18	580.10	492.54	87.56	6.625				
8,700.00	7,806.99	8,770.82	7,806.99	45.74	48.41	-90.00	-2,012.94	1,130.78	580.10	489.85	90.25	6.427				
8,800.00	7,806.99	8,870.82	7,806.99	47.11	49.69	-90.00	-2,112.94	1,131.38	580.10	487.10	93.01	6.237				
8,900.00	7,806.99	8,970.82	7,806.98	48.51	50.99	-90.00	-2,212.94	1,131.98	580.11	484.29	95.81	6.055				

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,070.82	7,806.98	49.93	52.33	-90.00	-2,312.94	1,132.58	580.11	481.44	98.67	5.879		
9,100.00	7,806.99	9,170.82	7,806.98	51.38	53.69	-90.00	-2,412.94	1,133.18	580.12	478.55	101.57	5.712		
9,200.00	7,806.99	9,270.82	7,806.98	52.84	55.07	-90.00	-2,512.94	1,133.78	580.12	475.62	104.50	5.551		
9,300.00	7,806.98	9,370.82	7,806.97	54.32	56.47	-90.00	-2,612.93	1,134.38	580.12	472.65	107.48	5.398		
9,400.00	7,806.98	9,470.82	7,806.97	55.82	57.90	-90.00	-2,712.93	1,134.98	580.13	469.64	110.48	5.251		
9,500.00	7,806.98	9,570.82	7,806.97	57.34	59.34	-90.00	-2,812.93	1,135.58	580.13	466.61	113.52	5.110		
9,600.00	7,806.98	9,670.82	7,806.97	58.87	60.80	-90.00	-2,912.93	1,136.18	580.14	463.54	116.59	4.976		
9,700.00	7,806.98	9,770.82	7,806.97	60.41	62.28	-90.00	-3,012.93	1,136.78	580.14	460.45	119.69	4.847		
9,800.00	7,806.98	9,870.82	7,806.96	61.96	63.77	-90.00	-3,112.92	1,137.38	580.14	457.34	122.80	4.724		
9,900.00	7,806.97	9,970.82	7,806.96	63.53	65.28	-90.00	-3,212.92	1,137.98	580.15	454.20	125.95	4.606		
10,000.00	7,806.97	10,070.82	7,806.96	65.10	66.80	-90.00	-3,312.92	1,138.58	580.15	451.04	129.11	4.494		
10,100.00	7,806.97	10,170.82	7,806.96	66.69	68.33	-90.00	-3,412.92	1,139.18	580.16	447.87	132.29	4.385		
10,200.00	7,806.97	10,270.82	7,806.95	68.29	69.87	-90.00	-3,512.92	1,139.78	580.16	444.67	135.49	4.282		
10,300.00	7,806.97	10,370.82	7,806.95	69.89	71.43	-90.00	-3,612.92	1,140.38	580.17	441.46	138.71	4.183		
10,400.00	7,806.97	10,470.82	7,806.95	71.50	72.99	-90.00	-3,712.91	1,140.98	580.17	438.23	141.94	4.087		
10,500.00	7,806.97	10,570.82	7,806.95	73.12	74.56	-90.00	-3,812.91	1,141.58	580.17	434.99	145.19	3.996		
10,600.00	7,806.96	10,670.82	7,806.94	74.75	76.14	-90.00	-3,912.91	1,142.18	580.18	431.73	148.45	3.908		
10,700.00	7,806.96	10,770.82	7,806.94	76.38	77.73	-90.00	-4,012.91	1,142.78	580.18	428.46	151.72	3.824		
10,800.00	7,806.96	10,870.82	7,806.94	78.02	79.33	-90.00	-4,112.91	1,143.38	580.19	425.18	155.01	3.743		
10,900.00	7,806.96	10,970.82	7,806.94	79.66	80.94	-90.00	-4,212.91	1,143.98	580.19	421.88	158.31	3.665		
11,000.00	7,806.96	11,070.82	7,806.93	81.31	82.55	-90.00	-4,312.90	1,144.58	580.19	418.58	161.61	3.590		
11,100.00	7,806.96	11,170.82	7,806.93	82.97	84.17	-90.00	-4,412.90	1,145.18	580.20	415.27	164.93	3.518		
11,200.00	7,806.95	11,270.82	7,806.93	84.63	85.79	-90.00	-4,512.90	1,145.78	580.20	411.94	168.26	3.448		
11,300.00	7,806.95	11,370.82	7,806.93	86.29	87.42	-90.00	-4,612.90	1,146.38	580.21	408.61	171.59	3.381		
11,400.00	7,806.95	11,470.82	7,806.92	87.96	89.06	-90.00	-4,712.90	1,146.98	580.21	405.27	174.94	3.317		
11,500.00	7,806.95	11,570.82	7,806.92	89.64	90.70	-90.00	-4,812.89	1,147.58	580.21	401.93	178.29	3.254		
11,600.00	7,806.95	11,670.82	7,806.92	91.31	92.35	-90.00	-4,912.89	1,148.18	580.22	398.57	181.65	3.194		
11,700.00	7,806.95	11,770.82	7,806.92	92.99	94.00	-90.00	-5,012.89	1,148.78	580.22	395.21	185.01	3.136		
11,800.00	7,806.95	11,870.82	7,806.91	94.68	95.65	-90.00	-5,112.89	1,149.38	580.23	391.84	188.39	3.080		
11,900.00	7,806.94	11,970.82	7,806.91	96.36	97.31	-90.00	-5,212.89	1,149.98	580.23	388.46	191.77	3.026		
12,000.00	7,806.94	12,070.82	7,806.91	98.05	98.97	-90.00	-5,312.89	1,150.58	580.24	385.08	195.15	2.973		
12,100.00	7,806.94	12,170.82	7,806.91	99.74	100.64	-90.00	-5,412.88	1,151.18	580.24	381.70	198.54	2.922		
12,200.00	7,806.94	12,270.82	7,806.90	101.44	102.31	-90.00	-5,512.88	1,151.78	580.24	378.30	201.94	2.873		
12,300.00	7,806.94	12,370.82	7,806.90	103.14	103.99	-90.00	-5,612.88	1,152.38	580.25	374.91	205.34	2.826		
12,400.00	7,806.94	12,470.82	7,806.90	104.84	105.66	-90.00	-5,712.88	1,152.98	580.25	371.51	208.75	2.780		
12,500.00	7,806.93	12,570.82	7,806.90	106.54	107.34	-90.00	-5,812.88	1,153.58	580.26	368.10	212.16	2.735		
12,600.00	7,806.93	12,670.82	7,806.90	108.25	109.03	-90.00	-5,912.87	1,154.18	580.26	364.69	215.57	2.692		
12,700.00	7,806.93	12,770.82	7,806.89	109.95	110.71	-90.00	-6,012.87	1,154.78	580.26	361.27	218.99	2.650		
12,800.00	7,806.93	12,870.82	7,806.89	111.66	112.40	-90.00	-6,112.87	1,155.38	580.27	357.85	222.41	2.609		
12,900.00	7,806.93	12,970.82	7,806.89	113.37	114.09	-90.00	-6,212.87	1,155.98	580.27	354.43	225.84	2.569		
13,000.00	7,806.93	13,070.82	7,806.89	115.09	115.79	-90.00	-6,312.87	1,156.58	580.28	351.00	229.27	2.531		
13,100.00	7,806.93	13,170.82	7,806.88	116.80	117.48	-90.00	-6,412.87	1,157.18	580.28	347.57	232.71	2.494		
13,200.00	7,806.92	13,270.82	7,806.88	118.52	119.18	-90.00	-6,512.86	1,157.78	580.28	344.14	236.14	2.457		
13,300.00	7,806.92	13,370.82	7,806.88	120.24	120.88	-90.00	-6,612.86	1,158.38	580.29	340.70	239.58	2.422		
13,400.00	7,806.92	13,470.82	7,806.88	121.96	122.58	-90.00	-6,712.86	1,158.98	580.29	337.26	243.03	2.388		
13,500.00	7,806.92	13,570.82	7,806.87	123.68	124.29	-90.00	-6,812.86	1,159.58	580.30	333.82	246.48	2.354		
13,600.00	7,806.92	13,670.82	7,806.87	125.40	125.99	-90.00	-6,912.86	1,160.18	580.30	330.38	249.92	2.322		
13,700.00	7,806.92	13,770.82	7,806.87	127.12	127.70	-90.00	-7,012.85	1,160.77	580.31	326.93	253.38	2.290		
13,800.00	7,806.91	13,870.82	7,806.87	128.85	129.41	-90.00	-7,112.85	1,161.37	580.31	323.48	256.83	2.259		
13,900.00	7,806.91	13,970.82	7,806.86	130.58	131.12	-90.00	-7,212.85	1,161.97	580.31	320.02	260.29	2.229		
14,000.00	7,806.91	14,070.82	7,806.86	132.30	132.84	-90.00	-7,312.85	1,162.57	580.32	316.57	263.75	2.200		
14,100.00	7,806.91	14,170.82	7,806.86	134.03	134.55	-89.99	-7,412.85	1,163.17	580.32	313.11	267.21	2.172		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,270.82	7,806.86	135.76	136.27	-89.99	-7,512.85	1,163.77	580.33	309.65	270.67	2.144		
14,300.00	7,806.91	14,370.82	7,806.85	137.50	137.99	-89.99	-7,612.84	1,164.37	580.33	306.19	274.14	2.117		
14,400.00	7,806.91	14,470.82	7,806.85	139.23	139.71	-89.99	-7,712.84	1,164.97	580.33	302.73	277.61	2.090		
14,500.00	7,806.90	14,570.82	7,806.85	140.96	141.43	-89.99	-7,812.84	1,165.57	580.34	299.26	281.08	2.065		
14,600.00	7,806.90	14,670.82	7,806.85	142.70	143.15	-89.99	-7,912.84	1,166.17	580.34	295.79	284.55	2.039		
14,700.00	7,806.90	14,770.82	7,806.84	144.43	144.87	-89.99	-8,012.84	1,166.77	580.35	292.32	288.03	2.015		
14,800.00	7,806.90	14,870.82	7,806.84	146.17	146.60	-89.99	-8,112.83	1,167.37	580.35	288.85	291.50	1.991		
14,900.00	7,806.90	14,970.82	7,806.84	147.91	148.32	-89.99	-8,212.83	1,167.97	580.35	285.38	294.98	1.967		
15,000.00	7,806.90	15,070.82	7,806.84	149.64	150.05	-89.99	-8,312.83	1,168.57	580.36	281.90	298.46	1.945		
15,100.00	7,806.89	15,170.82	7,806.83	151.38	151.78	-89.99	-8,412.83	1,169.17	580.36	278.43	301.94	1.922		
15,200.00	7,806.89	15,270.82	7,806.83	153.12	153.50	-89.99	-8,512.83	1,169.77	580.37	274.95	305.42	1.900		
15,300.00	7,806.89	15,370.82	7,806.83	154.86	155.23	-89.99	-8,612.83	1,170.37	580.37	271.47	308.90	1.879		
15,400.00	7,806.89	15,470.82	7,806.83	156.60	156.96	-89.99	-8,712.82	1,170.97	580.38	267.99	312.39	1.858		
15,500.00	7,806.89	15,570.82	7,806.83	158.35	158.70	-89.99	-8,812.82	1,171.57	580.38	264.50	315.87	1.837		
15,600.00	7,806.89	15,670.82	7,806.82	160.09	160.43	-89.99	-8,912.82	1,172.17	580.38	261.02	319.36	1.817		
15,700.00	7,806.89	15,770.82	7,806.82	161.83	162.16	-89.99	-9,012.82	1,172.77	580.39	257.54	322.85	1.798		
15,800.00	7,806.88	15,870.82	7,806.82	163.57	163.90	-89.99	-9,112.82	1,173.37	580.39	254.05	326.34	1.778		
15,900.00	7,806.88	15,970.82	7,806.82	165.32	165.63	-89.99	-9,212.82	1,173.97	580.40	250.56	329.83	1.760		
16,000.00	7,806.88	16,070.82	7,806.81	167.06	167.37	-89.99	-9,312.81	1,174.57	580.40	247.07	333.33	1.741		
16,100.00	7,806.88	16,170.82	7,806.81	168.81	169.10	-89.99	-9,412.81	1,175.17	580.40	243.58	336.82	1.723		
16,200.00	7,806.88	16,270.82	7,806.81	170.56	170.84	-89.99	-9,512.81	1,175.77	580.41	240.09	340.31	1.706		
16,300.00	7,806.88	16,370.82	7,806.81	172.30	172.58	-89.99	-9,612.81	1,176.37	580.41	236.60	343.81	1.688		
16,400.00	7,806.87	16,470.82	7,806.80	174.05	174.32	-89.99	-9,712.81	1,176.97	580.42	233.11	347.31	1.671		
16,500.00	7,806.87	16,570.82	7,806.80	175.80	176.06	-89.99	-9,812.80	1,177.57	580.42	229.62	350.81	1.655		
16,600.00	7,806.87	16,670.82	7,806.80	177.55	177.80	-89.99	-9,912.80	1,178.17	580.42	226.12	354.30	1.638		
16,700.00	7,806.87	16,770.82	7,806.80	179.30	179.54	-89.99	-10,012.80	1,178.77	580.43	222.62	357.80	1.622		
16,800.00	7,806.87	16,870.82	7,806.79	181.04	181.28	-89.99	-10,112.80	1,179.37	580.43	219.13	361.30	1.606		
16,900.00	7,806.87	16,970.82	7,806.79	182.79	183.02	-89.99	-10,212.80	1,179.97	580.44	215.63	364.81	1.591		
17,000.00	7,806.87	17,070.82	7,806.79	184.54	184.77	-89.99	-10,312.80	1,180.57	580.44	212.13	368.31	1.576		
17,100.00	7,806.86	17,170.82	7,806.79	186.30	186.51	-89.99	-10,412.79	1,181.17	580.45	208.63	371.81	1.561		
17,200.00	7,806.86	17,270.82	7,806.78	188.05	188.25	-89.99	-10,512.79	1,181.77	580.45	205.13	375.32	1.547		
17,300.00	7,806.86	17,370.82	7,806.78	189.80	190.00	-89.99	-10,612.79	1,182.37	580.45	201.63	378.82	1.532		
17,400.00	7,806.86	17,470.82	7,806.78	191.55	191.74	-89.99	-10,712.79	1,182.97	580.46	198.13	382.33	1.518		
17,500.00	7,806.86	17,570.82	7,806.78	193.30	193.49	-89.99	-10,812.79	1,183.57	580.46	194.63	385.83	1.504		
17,600.00	7,806.86	17,670.82	7,806.77	195.06	195.23	-89.99	-10,912.78	1,184.17	580.47	191.12	389.34	1.491 Level 3		
17,700.00	7,806.85	17,770.82	7,806.77	196.81	196.98	-89.99	-11,012.78	1,184.77	580.47	187.62	392.85	1.478 Level 3		
17,800.00	7,806.85	17,870.82	7,806.77	198.56	198.73	-89.99	-11,112.78	1,185.37	580.47	184.12	396.36	1.465 Level 3		
17,898.35	7,807.00	17,970.38	7,806.99	200.29	200.47	-90.00	-11,212.34	1,185.82	580.33	180.55	399.77	1.452 Level 3, SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	401.582		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.60	107.97	107.97	106.98	0.99	109.523		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.60	107.97	107.97	106.26	1.70	63.408		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.60	107.97	107.97	105.55	2.42	44.620		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.60	107.97	107.97	104.83	3.14	34.421		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.60	107.97	107.97	104.11	3.85	28.017		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.60	107.97	107.97	103.40	4.57	23.623		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.60	107.97	107.97	102.68	5.29	20.419		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.60	107.97	107.97	101.96	6.00	17.981		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	3.36	90.32	-0.60	107.97	107.97	101.25	6.72	16.063 CC, ES		
1,100.00	1,100.00	1,097.03	1,097.01	3.72	3.70	90.83	-1.59	109.28	109.33	101.92	7.41	14.750		
1,200.00	1,200.00	1,193.84	1,193.69	4.08	4.02	92.30	-4.55	113.20	113.47	105.38	8.09	14.030		
1,300.00	1,300.00	1,290.20	1,289.71	4.44	4.35	94.51	-9.44	119.69	120.51	111.75	8.76	13.757		
1,400.00	1,399.98	1,386.10	1,384.93	4.78	4.69	-54.56	-16.24	128.71	129.59	120.18	9.41	13.775		
1,500.00	1,499.84	1,481.63	1,479.37	5.11	5.05	-53.07	-24.91	140.22	139.66	129.62	10.04	13.913		
1,600.00	1,599.45	1,576.78	1,572.89	5.44	5.42	-52.19	-35.43	154.18	150.59	139.92	10.67	14.113		
1,700.00	1,698.70	1,671.52	1,665.39	5.79	5.82	-51.81	-47.76	170.53	162.31	151.00	11.31	14.352		
1,800.00	1,797.47	1,765.84	1,756.75	6.15	6.24	-51.83	-61.85	189.23	174.79	162.83	11.96	14.612		
1,900.00	1,895.62	1,859.72	1,846.87	6.53	6.69	-52.15	-77.66	210.21	188.01	175.37	12.63	14.882		
1,912.93	1,908.27	1,872.32	1,858.91	6.58	6.75	-52.22	-79.91	213.20	189.76	177.03	12.73	14.908		
2,000.00	1,993.35	1,958.57	1,941.27	6.93	7.19	-52.86	-95.32	233.64	201.46	188.04	13.42	15.014		
2,100.00	2,091.07	2,057.63	2,035.87	7.34	7.72	-53.52	-113.02	257.12	214.93	200.70	14.23	15.102		
2,200.00	2,188.79	2,156.69	2,130.46	7.77	8.26	-54.10	-130.71	280.60	228.43	213.36	15.07	15.161		
2,300.00	2,286.51	2,255.75	2,225.06	8.20	8.82	-54.61	-148.41	304.08	241.94	226.02	15.92	15.198		
2,400.00	2,384.23	2,354.81	2,319.66	8.65	9.38	-55.07	-166.10	327.55	255.47	238.69	16.79	15.219		
2,500.00	2,481.95	2,453.87	2,414.25	9.10	9.96	-55.49	-183.80	351.03	269.02	251.35	17.67	15.226		
2,600.00	2,579.67	2,552.93	2,508.85	9.56	10.54	-55.86	-201.50	374.51	282.58	264.02	18.56	15.224		
2,700.00	2,677.39	2,651.99	2,603.45	10.02	11.12	-56.20	-219.19	397.99	296.15	276.68	19.46	15.214		
2,800.00	2,775.11	2,751.05	2,698.05	10.49	11.72	-56.51	-236.89	421.47	309.72	289.35	20.38	15.199		
2,900.00	2,872.83	2,850.11	2,792.64	10.96	12.31	-56.79	-254.58	444.95	323.31	302.01	21.30	15.180		
3,000.00	2,970.55	2,949.18	2,887.24	11.44	12.91	-57.05	-272.28	468.43	336.90	314.68	22.23	15.158		
3,100.00	3,068.27	3,048.24	2,981.84	11.92	13.52	-57.29	-289.98	491.91	350.50	327.34	23.16	15.134		
3,200.00	3,165.99	3,147.30	3,076.43	12.40	14.12	-57.52	-307.67	515.39	364.11	340.01	24.10	15.109		
3,300.00	3,263.71	3,246.36	3,171.03	12.88	14.73	-57.72	-325.37	538.86	377.72	352.68	25.04	15.082		
3,400.00	3,361.43	3,345.42	3,265.63	13.37	15.34	-57.91	-343.06	562.34	391.34	365.34	25.99	15.055		
3,500.00	3,459.15	3,444.48	3,360.23	13.86	15.95	-58.09	-360.76	585.82	404.96	378.01	26.95	15.028		
3,600.00	3,556.87	3,543.54	3,454.82	14.35	16.57	-58.26	-378.46	609.30	418.58	390.67	27.90	15.001		
3,700.00	3,654.59	3,642.60	3,549.42	14.84	17.18	-58.42	-396.15	632.78	432.20	403.34	28.86	14.974		
3,800.00	3,752.31	3,741.66	3,644.02	15.34	17.80	-58.57	-413.85	656.26	445.83	416.01	29.83	14.947		
3,900.00	3,850.03	3,840.72	3,738.61	15.83	18.42	-58.70	-431.54	679.74	459.47	428.67	30.79	14.921		
4,000.00	3,947.75	3,939.78	3,833.21	16.33	19.04	-58.83	-449.24	703.22	473.10	441.34	31.76	14.895		
4,100.00	4,045.47	4,038.84	3,927.81	16.83	19.66	-58.96	-466.94	726.69	486.74	454.00	32.73	14.870		
4,200.00	4,143.19	4,137.90	4,022.40	17.32	20.28	-59.07	-484.63	750.17	500.37	466.67	33.71	14.845		
4,300.00	4,240.91	4,236.96	4,117.00	17.82	20.91	-59.19	-502.33	773.65	514.02	479.33	34.68	14.821		
4,400.00	4,338.63	4,336.02	4,211.60	18.32	21.53	-59.29	-520.02	797.13	527.66	492.00	35.66	14.798		
4,500.00	4,436.35	4,435.08	4,306.20	18.82	22.15	-59.39	-537.72	820.61	541.30	504.66	36.64	14.775		
4,600.00	4,534.07	4,534.14	4,400.79	19.33	22.78	-59.48	-555.41	844.09	554.95	517.33	37.62	14.753		
4,700.00	4,631.79	4,633.20	4,495.39	19.83	23.40	-59.57	-573.11	867.57	568.59	530.00	38.60	14.731		
4,800.00	4,729.51	4,732.27	4,589.99	20.33	24.03	-59.66	-590.81	891.05	582.24	542.66	39.58	14.710		
4,900.00	4,827.23	4,831.33	4,684.58	20.83	24.66	-59.74	-608.50	914.53	595.89	555.33	40.57	14.690		
5,000.00	4,924.95	4,930.39	4,779.18	21.34	25.28	-59.82	-626.20	938.00	609.54	567.99	41.55	14.670		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,029.45	4,873.78	21.84	25.91	-59.89	-643.89	961.48	623.19	580.66	42.54	14.651		
5,200.00	5,120.39	5,128.51	4,968.37	22.35	26.54	-59.97	-661.59	984.96	636.85	593.32	43.52	14.632		
5,300.00	5,218.11	5,227.57	5,062.97	22.85	27.17	-60.04	-679.29	1,008.44	650.50	605.99	44.51	14.614		
5,400.00	5,315.83	5,326.63	5,157.57	23.36	27.80	-60.10	-696.98	1,031.92	664.16	618.65	45.50	14.596		
5,500.00	5,413.55	5,425.69	5,252.17	23.86	28.42	-60.16	-714.68	1,055.40	677.81	631.32	46.49	14.579		
5,600.00	5,511.27	5,524.75	5,346.76	24.37	29.05	-60.22	-732.37	1,078.88	691.47	643.98	47.48	14.562		
5,700.00	5,608.99	5,623.81	5,441.36	24.88	29.68	-60.28	-750.07	1,102.36	705.12	656.65	48.47	14.546		
5,800.00	5,706.71	5,722.87	5,535.96	25.38	30.31	-60.34	-767.77	1,125.84	718.78	669.31	49.47	14.531		
5,900.00	5,804.43	5,821.93	5,630.55	25.89	30.94	-60.39	-785.46	1,149.31	732.44	681.98	50.46	14.515		
6,000.00	5,902.15	5,920.99	5,725.15	26.40	31.57	-60.44	-803.16	1,172.79	746.10	694.65	51.45	14.501		
6,100.00	5,999.87	6,020.05	5,819.75	26.91	32.20	-60.49	-820.85	1,196.27	759.76	707.31	52.45	14.486		
6,200.00	6,097.59	6,119.11	5,914.34	27.42	32.83	-60.54	-838.55	1,219.75	773.42	719.98	53.44	14.472		
6,300.00	6,195.30	6,218.17	6,008.94	27.92	33.46	-60.59	-856.25	1,243.23	787.08	732.64	54.44	14.458		
6,400.00	6,293.02	6,317.23	6,103.54	28.43	34.10	-60.64	-873.94	1,266.71	800.74	745.31	55.43	14.445		
6,500.00	6,390.74	6,416.30	6,198.14	28.94	34.73	-60.68	-891.64	1,290.19	814.40	757.97	56.43	14.432		
6,600.00	6,488.46	6,518.17	6,295.43	29.45	35.37	-60.72	-909.82	1,314.31	828.05	770.59	57.45	14.412		
6,638.14	6,525.73	6,567.35	6,342.58	29.64	35.67	-60.77	-918.24	1,325.49	832.87	774.92	57.95	14.373		
6,700.00	6,586.32	6,647.39	6,419.80	29.95	36.14	-60.99	-930.90	1,342.29	839.92	781.20	58.72	14.304		
6,800.00	6,684.79	6,777.36	6,546.36	30.42	36.84	-61.30	-948.68	1,365.87	849.77	789.91	59.87	14.195		
6,900.00	6,783.81	6,907.93	6,674.71	30.85	37.46	-61.54	-963.04	1,384.93	857.71	796.83	60.88	14.089		
7,000.00	6,883.25	7,038.97	6,804.50	31.24	37.99	-61.72	-973.90	1,399.34	863.69	801.93	61.75	13.986		
7,100.00	6,983.00	7,170.36	6,935.32	31.60	38.45	-61.84	-981.19	1,409.01	867.69	805.20	62.49	13.885		
7,200.00	7,082.93	7,301.96	7,066.76	31.92	38.84	-61.90	-984.87	1,413.89	869.71	806.61	63.10	13.784		
7,251.07	7,134.00	7,369.20	7,134.00	32.06	39.00	89.39	-985.35	1,414.52	869.97	806.63	63.34	13.736		
7,300.00	7,182.93	7,418.13	7,182.93	32.19	39.10	89.39	-985.35	1,414.52	869.97	806.38	63.59	13.681		
7,351.07	7,234.00	7,469.20	7,234.00	32.32	39.22	89.39	-985.35	1,414.52	869.97	806.11	63.86	13.624		
7,351.07	7,234.00	7,469.20	7,234.00	32.32	39.22	89.39	-985.35	1,414.52	869.97	806.11	63.86	13.624		
7,400.00	7,282.87	7,518.48	7,282.21	32.47	39.35	-90.27	-987.46	1,414.53	869.97	805.81	64.16	13.559		
7,450.00	7,332.44	7,568.83	7,333.12	32.67	39.51	-90.26	-993.98	1,414.57	869.97	805.42	64.55	13.477		
7,500.00	7,381.26	7,619.17	7,382.26	32.90	39.69	-90.26	-1,004.86	1,414.64	869.97	804.95	65.02	13.380		
7,550.00	7,428.96	7,669.50	7,430.24	33.18	39.91	-90.25	-1,020.00	1,414.73	869.97	804.41	65.56	13.271		
7,600.00	7,475.17	7,719.83	7,476.71	33.48	40.16	-90.24	-1,039.29	1,414.84	869.97	803.81	66.16	13.149		
7,650.00	7,519.55	7,770.14	7,521.29	33.82	40.43	-90.23	-1,062.57	1,414.98	869.97	803.13	66.84	13.016		
7,700.00	7,561.76	7,820.43	7,563.64	34.20	40.73	-90.22	-1,089.66	1,415.15	869.97	802.39	67.58	12.873		
7,750.00	7,601.47	7,870.71	7,603.45	34.60	41.05	-90.20	-1,120.35	1,415.33	869.97	801.59	68.39	12.721		
7,800.00	7,638.39	7,920.97	7,640.39	35.04	41.40	-90.19	-1,154.40	1,415.54	869.97	800.72	69.25	12.562		
7,850.00	7,672.23	7,971.20	7,674.20	35.50	41.77	-90.17	-1,191.53	1,415.76	869.98	799.80	70.18	12.397		
7,900.00	7,702.74	8,021.42	7,704.62	35.99	42.17	-90.15	-1,231.46	1,416.00	869.98	798.82	71.16	12.226		
7,950.00	7,729.67	8,071.60	7,731.41	36.50	42.59	-90.13	-1,273.88	1,416.26	869.98	797.79	72.18	12.052		
8,000.00	7,752.84	8,121.76	7,754.37	37.04	43.02	-90.11	-1,318.46	1,416.53	869.98	796.72	73.26	11.876		
8,050.00	7,772.06	8,171.90	7,773.34	37.60	43.48	-90.09	-1,364.84	1,416.80	869.98	795.61	74.37	11.698		
8,100.00	7,787.18	8,222.00	7,788.18	38.17	43.95	-90.07	-1,412.68	1,417.09	869.99	794.47	75.51	11.521		
8,150.00	7,798.10	8,272.07	7,798.78	38.76	44.43	-90.05	-1,461.60	1,417.39	869.99	793.31	76.68	11.345		
8,200.00	7,804.72	8,322.12	7,805.06	39.36	44.93	-90.02	-1,511.24	1,417.69	869.99	792.13	77.87	11.173		
8,251.15	7,807.00	8,373.28	7,807.00	39.97	45.44	-90.00	-1,562.34	1,417.99	870.00	790.91	79.09	11.001		
8,300.00	7,807.00	8,422.13	7,807.00	40.56	45.94	-90.00	-1,611.19	1,418.29	870.00	789.73	80.26	10.839		
8,400.00	7,807.00	8,522.13	7,807.00	41.80	47.00	-90.00	-1,711.19	1,418.89	870.00	787.27	82.73	10.516		
8,500.00	7,807.00	8,622.13	7,807.00	43.08	48.11	-90.00	-1,811.19	1,419.49	870.01	784.73	85.28	10.202		
8,600.00	7,806.99	8,722.13	7,807.00	44.40	49.25	-90.00	-1,911.19	1,420.09	870.02	782.12	87.90	9.898		
8,700.00	7,806.99	8,822.13	7,806.99	45.74	50.43	-90.00	-2,011.19	1,420.70	870.02	779.45	90.57	9.606		
8,800.00	7,806.99	8,922.13	7,806.99	47.11	51.64	-90.00	-2,111.19	1,421.30	870.03	776.72	93.31	9.324		
8,900.00	7,806.99	9,022.13	7,806.99	48.51	52.88	-90.00	-2,211.18	1,421.90	870.04	773.94	96.10	9.053		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,122.13	7,806.99	49.93	54.16	-90.00	-2,311.18	1,422.50	870.04	771.10	98.94	8.794		
9,100.00	7,806.99	9,222.13	7,806.99	51.38	55.46	-90.00	-2,411.18	1,423.10	870.05	768.23	101.82	8.545		
9,200.00	7,806.99	9,322.13	7,806.99	52.84	56.78	-90.00	-2,511.18	1,423.71	870.05	765.31	104.74	8.307		
9,300.00	7,806.98	9,422.13	7,806.99	54.32	58.14	-90.00	-2,611.18	1,424.31	870.06	762.36	107.70	8.078		
9,400.00	7,806.98	9,522.13	7,806.99	55.82	59.51	-90.00	-2,711.17	1,424.91	870.07	759.37	110.70	7.860		
9,500.00	7,806.98	9,622.13	7,806.98	57.34	60.90	-90.00	-2,811.17	1,425.51	870.07	756.35	113.73	7.651		
9,600.00	7,806.98	9,722.13	7,806.98	58.87	62.32	-90.00	-2,911.17	1,426.11	870.08	753.30	116.78	7.450		
9,700.00	7,806.98	9,822.13	7,806.98	60.41	63.75	-90.00	-3,011.17	1,426.72	870.09	750.22	119.86	7.259		
9,800.00	7,806.98	9,922.13	7,806.98	61.96	65.20	-90.00	-3,111.17	1,427.32	870.09	747.12	122.97	7.076		
9,900.00	7,806.97	10,022.13	7,806.98	63.53	66.66	-90.00	-3,211.17	1,427.92	870.10	743.99	126.10	6.900		
10,000.00	7,806.97	10,122.13	7,806.98	65.10	68.14	-90.00	-3,311.16	1,428.52	870.10	740.85	129.26	6.732		
10,100.00	7,806.97	10,222.13	7,806.98	66.69	69.63	-90.00	-3,411.16	1,429.12	870.11	737.68	132.43	6.570		
10,200.00	7,806.97	10,322.13	7,806.98	68.29	71.14	-90.00	-3,511.16	1,429.73	870.12	734.50	135.62	6.416		
10,300.00	7,806.97	10,422.13	7,806.97	69.89	72.66	-90.00	-3,611.16	1,430.33	870.12	731.30	138.83	6.268		
10,400.00	7,806.97	10,522.13	7,806.97	71.50	74.19	-90.00	-3,711.16	1,430.93	870.13	728.08	142.05	6.125		
10,500.00	7,806.97	10,622.13	7,806.97	73.12	75.73	-90.00	-3,811.15	1,431.53	870.14	724.85	145.29	5.989		
10,600.00	7,806.96	10,722.13	7,806.97	74.75	77.28	-90.00	-3,911.15	1,432.14	870.14	721.60	148.54	5.858		
10,700.00	7,806.96	10,822.13	7,806.97	76.38	78.84	-90.00	-4,011.15	1,432.74	870.15	718.34	151.81	5.732		
10,800.00	7,806.96	10,922.13	7,806.97	78.02	80.41	-90.00	-4,111.15	1,433.34	870.15	715.07	155.09	5.611		
10,900.00	7,806.96	11,022.13	7,806.97	79.66	81.99	-90.00	-4,211.15	1,433.94	870.16	711.78	158.38	5.494		
11,000.00	7,806.96	11,122.13	7,806.96	81.31	83.57	-90.00	-4,311.15	1,434.54	870.17	708.49	161.68	5.382		
11,100.00	7,806.96	11,222.13	7,806.96	82.97	85.16	-90.00	-4,411.14	1,435.15	870.17	705.18	164.99	5.274		
11,200.00	7,806.95	11,322.13	7,806.96	84.63	86.76	-90.00	-4,511.14	1,435.75	870.18	701.87	168.31	5.170		
11,300.00	7,806.95	11,422.13	7,806.96	86.29	88.37	-90.00	-4,611.14	1,436.35	870.19	698.54	171.64	5.070		
11,400.00	7,806.95	11,522.13	7,806.96	87.96	89.98	-90.00	-4,711.14	1,436.95	870.19	695.21	174.98	4.973		
11,500.00	7,806.95	11,622.13	7,806.96	89.64	91.60	-90.00	-4,811.14	1,437.55	870.20	691.87	178.33	4.880		
11,600.00	7,806.95	11,722.13	7,806.96	91.31	93.23	-90.00	-4,911.13	1,438.16	870.20	688.52	181.68	4.790		
11,700.00	7,806.95	11,822.13	7,806.96	92.99	94.86	-90.00	-5,011.13	1,438.76	870.21	685.17	185.04	4.703		
11,800.00	7,806.95	11,922.13	7,806.95	94.68	96.49	-90.00	-5,111.13	1,439.36	870.22	681.81	188.41	4.619		
11,900.00	7,806.94	12,022.13	7,806.95	96.36	98.13	-90.00	-5,211.13	1,439.96	870.22	678.44	191.78	4.538		
12,000.00	7,806.94	12,122.13	7,806.95	98.05	99.77	-90.00	-5,311.13	1,440.56	870.23	675.07	195.16	4.459		
12,100.00	7,806.94	12,222.13	7,806.95	99.74	101.42	-90.00	-5,411.13	1,441.17	870.24	671.69	198.55	4.383		
12,200.00	7,806.94	12,322.13	7,806.95	101.44	103.08	-90.00	-5,511.12	1,441.77	870.24	668.30	201.94	4.309		
12,300.00	7,806.94	12,422.13	7,806.95	103.14	104.73	-90.00	-5,611.12	1,442.37	870.25	664.91	205.34	4.238		
12,400.00	7,806.94	12,522.13	7,806.95	104.84	106.39	-90.00	-5,711.12	1,442.97	870.25	661.51	208.74	4.169		
12,500.00	7,806.93	12,622.13	7,806.95	106.54	108.06	-90.00	-5,811.12	1,443.57	870.26	658.11	212.15	4.102		
12,600.00	7,806.93	12,722.13	7,806.94	108.25	109.72	-90.00	-5,911.12	1,444.18	870.27	654.71	215.56	4.037		
12,700.00	7,806.93	12,822.13	7,806.94	109.95	111.39	-90.00	-6,011.11	1,444.78	870.27	651.30	218.97	3.974		
12,800.00	7,806.93	12,922.13	7,806.94	111.66	113.07	-90.00	-6,111.11	1,445.38	870.28	647.89	222.39	3.913		
12,900.00	7,806.93	13,022.13	7,806.94	113.37	114.75	-90.00	-6,211.11	1,445.98	870.28	644.47	225.82	3.854		
13,000.00	7,806.93	13,122.13	7,806.94	115.09	116.43	-90.00	-6,311.11	1,446.58	870.29	641.05	229.24	3.796		
13,100.00	7,806.93	13,222.13	7,806.94	116.80	118.11	-90.00	-6,411.11	1,447.19	870.30	637.62	232.67	3.740		
13,200.00	7,806.92	13,322.13	7,806.94	118.52	119.79	-90.00	-6,511.11	1,447.79	870.30	634.20	236.11	3.686		
13,300.00	7,806.92	13,422.13	7,806.94	120.24	121.48	-90.00	-6,611.10	1,448.39	870.31	630.77	239.54	3.633		
13,400.00	7,806.92	13,522.13	7,806.93	121.96	123.17	-90.00	-6,711.10	1,448.99	870.32	627.33	242.99	3.582		
13,500.00	7,806.92	13,622.13	7,806.93	123.68	124.86	-90.00	-6,811.10	1,449.60	870.32	623.89	246.43	3.532		
13,600.00	7,806.92	13,722.13	7,806.93	125.40	126.56	-90.00	-6,911.10	1,450.20	870.33	620.45	249.88	3.483		
13,700.00	7,806.92	13,822.13	7,806.93	127.12	128.25	-90.00	-7,011.10	1,450.80	870.33	617.01	253.32	3.436		
13,800.00	7,806.91	13,922.13	7,806.93	128.85	129.95	-90.00	-7,111.09	1,451.40	870.34	613.57	256.78	3.389		
13,900.00	7,806.91	14,022.13	7,806.93	130.58	131.65	-90.00	-7,211.09	1,452.00	870.35	610.12	260.23	3.345		
14,000.00	7,806.91	14,122.13	7,806.93	132.30	133.36	-90.00	-7,311.09	1,452.61	870.35	606.67	263.69	3.301		
14,100.00	7,806.91	14,222.13	7,806.93	134.03	135.06	-90.00	-7,411.09	1,453.21	870.36	603.21	267.15	3.258		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,322.13	7,806.92	135.76	136.77	-90.00	-7,511.09	1,453.81	870.37	599.76	270.61	3.216		
14,300.00	7,806.91	14,422.13	7,806.92	137.50	138.47	-90.00	-7,611.09	1,454.41	870.37	596.30	274.07	3.176		
14,400.00	7,806.91	14,522.13	7,806.92	139.23	140.18	-90.00	-7,711.08	1,455.01	870.38	592.84	277.54	3.136		
14,500.00	7,806.90	14,622.13	7,806.92	140.96	141.89	-90.00	-7,811.08	1,455.62	870.38	589.38	281.00	3.097		
14,600.00	7,806.90	14,722.13	7,806.92	142.70	143.61	-90.00	-7,911.08	1,456.22	870.39	585.92	284.47	3.060		
14,700.00	7,806.90	14,822.13	7,806.92	144.43	145.32	-90.00	-8,011.08	1,456.82	870.40	582.45	287.95	3.023		
14,800.00	7,806.90	14,922.13	7,806.92	146.17	147.04	-90.00	-8,111.08	1,457.42	870.40	578.98	291.42	2.987		
14,900.00	7,806.90	15,022.13	7,806.91	147.91	148.75	-90.00	-8,211.07	1,458.02	870.41	575.52	294.89	2.952		
15,000.00	7,806.90	15,122.13	7,806.91	149.64	150.47	-90.00	-8,311.07	1,458.63	870.42	572.05	298.37	2.917		
15,100.00	7,806.89	15,222.13	7,806.91	151.38	152.19	-90.00	-8,411.07	1,459.23	870.42	568.57	301.85	2.884		
15,200.00	7,806.89	15,322.13	7,806.91	153.12	153.91	-90.00	-8,511.07	1,459.83	870.43	565.10	305.33	2.851		
15,300.00	7,806.89	15,422.13	7,806.91	154.86	155.63	-90.00	-8,611.07	1,460.43	870.43	561.63	308.81	2.819		
15,400.00	7,806.89	15,522.13	7,806.91	156.60	157.36	-90.00	-8,711.07	1,461.03	870.44	558.15	312.29	2.787		
15,500.00	7,806.89	15,622.13	7,806.91	158.35	159.08	-90.00	-8,811.06	1,461.64	870.45	554.67	315.78	2.757		
15,600.00	7,806.89	15,722.13	7,806.91	160.09	160.80	-90.00	-8,911.06	1,462.24	870.45	551.19	319.26	2.726		
15,700.00	7,806.89	15,822.13	7,806.90	161.83	162.53	-90.00	-9,011.06	1,462.84	870.46	547.71	322.75	2.697		
15,800.00	7,806.88	15,922.13	7,806.90	163.57	164.26	-90.00	-9,111.06	1,463.44	870.47	544.23	326.24	2.668		
15,900.00	7,806.88	16,022.13	7,806.90	165.32	165.99	-90.00	-9,211.06	1,464.04	870.47	540.75	329.73	2.640		
16,000.00	7,806.88	16,122.13	7,806.90	167.06	167.72	-90.00	-9,311.05	1,464.65	870.48	537.26	333.22	2.612		
16,100.00	7,806.88	16,222.13	7,806.90	168.81	169.44	-90.00	-9,411.05	1,465.25	870.48	533.78	336.71	2.585		
16,200.00	7,806.88	16,322.13	7,806.90	170.56	171.18	-90.00	-9,511.05	1,465.85	870.49	530.29	340.20	2.559		
16,300.00	7,806.88	16,422.13	7,806.90	172.30	172.91	-90.00	-9,611.05	1,466.45	870.50	526.80	343.70	2.533		
16,400.00	7,806.87	16,522.13	7,806.90	174.05	174.64	-90.00	-9,711.05	1,467.05	870.50	523.31	347.19	2.507		
16,500.00	7,806.87	16,622.13	7,806.89	175.80	176.37	-90.00	-9,811.05	1,467.66	870.51	519.82	350.69	2.482		
16,600.00	7,806.87	16,722.13	7,806.89	177.55	178.11	-90.00	-9,911.04	1,468.26	870.52	516.33	354.18	2.458		
16,700.00	7,806.87	16,822.13	7,806.89	179.30	179.84	-90.00	-10,011.04	1,468.86	870.52	512.84	357.68	2.434		
16,800.00	7,806.87	16,922.13	7,806.89	181.04	181.58	-90.00	-10,111.04	1,469.46	870.53	509.35	361.18	2.410		
16,900.00	7,806.87	17,022.13	7,806.89	182.79	183.31	-90.00	-10,211.04	1,470.07	870.53	505.85	364.68	2.387		
17,000.00	7,806.87	17,122.13	7,806.89	184.54	185.05	-90.00	-10,311.04	1,470.67	870.54	502.36	368.18	2.364		
17,100.00	7,806.86	17,222.13	7,806.89	186.30	186.79	-90.00	-10,411.03	1,471.27	870.55	498.86	371.68	2.342		
17,200.00	7,806.86	17,322.13	7,806.89	188.05	188.53	-90.00	-10,511.03	1,471.87	870.55	495.37	375.19	2.320		
17,300.00	7,806.86	17,422.13	7,806.88	189.80	190.27	-90.00	-10,611.03	1,472.47	870.56	491.87	378.69	2.299		
17,400.00	7,806.86	17,522.13	7,806.88	191.55	192.00	-90.00	-10,711.03	1,473.08	870.57	488.37	382.19	2.278		
17,500.00	7,806.86	17,622.13	7,806.88	193.30	193.75	-90.00	-10,811.03	1,473.68	870.57	484.87	385.70	2.257		
17,600.00	7,806.86	17,722.13	7,806.88	195.06	195.49	-90.00	-10,911.03	1,474.28	870.58	481.37	389.20	2.237		
17,700.00	7,806.85	17,822.13	7,806.88	196.81	197.23	-90.00	-11,011.02	1,474.88	870.58	477.87	392.71	2.217		
17,800.00	7,806.85	17,922.13	7,806.88	198.56	198.97	-90.00	-11,111.02	1,475.48	870.59	474.37	396.22	2.197		
17,898.35	7,807.00	18,028.94	7,807.01	200.29	200.83	-90.00	-11,217.83	1,475.85	870.35	470.84	399.51	2.179 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.90	161.95	161.95					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.90	161.95	161.95	161.68	0.27	602.384		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.90	161.95	161.95	160.97	0.99	164.287		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.90	161.95	161.95	160.25	1.70	95.113		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.90	161.95	161.95	159.53	2.42	66.932		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.90	161.95	161.95	158.82	3.14	51.633		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.90	161.95	161.95	158.10	3.85	42.027		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.90	161.95	161.95	157.38	4.57	35.434	CC, ES	
800.00	800.00	795.00	794.99	2.64	2.61	90.53	-1.52	163.40	163.49	158.23	5.26	31.097		
900.00	900.00	889.80	889.66	3.00	2.94	91.14	-3.35	167.74	168.09	162.16	5.93	28.329		
1,000.00	1,000.00	984.18	983.71	3.36	3.27	92.09	-6.38	174.93	175.80	169.19	6.61	26.608		
1,100.00	1,100.00	1,077.95	1,076.85	3.72	3.61	93.28	-10.59	184.89	186.63	179.35	7.28	25.650		
1,200.00	1,200.00	1,170.91	1,168.79	4.08	3.97	94.61	-15.92	197.53	200.61	192.67	7.94	25.272		
1,300.00	1,300.00	1,262.88	1,259.26	4.44	4.34	96.00	-22.34	212.73	217.75	209.15	8.59	25.343		
1,400.00	1,399.98	1,353.95	1,348.29	4.78	4.73	-53.93	-29.81	230.42	237.02	227.80	9.22	25.715		
1,500.00	1,499.84	1,444.32	1,435.98	5.11	5.15	-53.13	-38.30	250.53	257.32	247.49	9.82	26.196		
1,600.00	1,599.45	1,533.95	1,522.22	5.44	5.60	-52.76	-47.78	272.99	278.54	268.11	10.43	26.703		
1,700.00	1,698.70	1,622.78	1,606.91	5.79	6.08	-52.75	-58.21	297.69	300.65	289.61	11.05	27.220		
1,800.00	1,797.47	1,710.81	1,689.96	6.15	6.59	-52.99	-69.54	324.54	323.63	311.96	11.67	27.730		
1,900.00	1,895.62	1,797.98	1,771.30	6.53	7.14	-53.44	-81.74	353.43	347.48	335.17	12.32	28.216		
1,912.93	1,908.27	1,809.19	1,781.69	6.58	7.21	-53.51	-83.38	357.31	350.63	338.23	12.40	28.279		
2,000.00	1,993.35	1,884.16	1,850.73	6.93	7.73	-54.24	-94.74	384.23	372.98	359.99	12.98	28.731		
2,100.00	2,091.07	1,969.07	1,927.97	7.34	8.36	-54.87	-108.45	416.71	401.26	387.60	13.66	29.373		
2,200.00	2,188.79	2,058.92	2,008.73	7.77	9.06	-55.35	-123.77	452.98	431.88	417.45	14.43	29.926		
2,300.00	2,286.51	2,153.97	2,094.04	8.20	9.84	-55.78	-140.07	491.59	462.81	447.51	15.30	30.255		
2,400.00	2,384.23	2,249.01	2,179.34	8.65	10.63	-56.16	-156.37	530.20	493.75	477.57	16.18	30.517		
2,500.00	2,481.95	2,344.06	2,264.65	9.10	11.43	-56.49	-172.67	568.81	524.72	507.64	17.08	30.725		
2,600.00	2,579.67	2,439.10	2,349.95	9.56	12.25	-56.78	-188.97	607.42	555.70	537.71	17.99	30.891		
2,700.00	2,677.39	2,534.14	2,435.26	10.02	13.07	-57.05	-205.27	646.03	586.69	567.78	18.91	31.023		
2,800.00	2,775.11	2,629.19	2,520.56	10.49	13.90	-57.28	-221.57	684.64	617.69	597.85	19.84	31.127		
2,900.00	2,872.83	2,724.23	2,605.87	10.96	14.74	-57.50	-237.87	723.24	648.70	627.92	20.78	31.210		
3,000.00	2,970.55	2,819.27	2,691.17	11.44	15.58	-57.69	-254.16	761.85	679.72	657.99	21.73	31.275		
3,100.00	3,068.27	2,914.32	2,776.48	11.92	16.43	-57.87	-270.46	800.46	710.74	688.05	22.69	31.326		
3,200.00	3,165.99	3,009.36	2,861.79	12.40	17.28	-58.04	-286.76	839.07	741.77	718.12	23.65	31.365		
3,300.00	3,263.71	3,104.40	2,947.09	12.88	18.13	-58.19	-303.06	877.68	772.81	748.19	24.62	31.394		
3,400.00	3,361.43	3,200.55	3,032.40	13.37	19.00	-58.32	-319.36	916.29	803.85	778.25	25.59	31.408		
3,500.00	3,459.15	3,305.51	3,117.70	13.86	19.95	-58.45	-335.66	954.90	834.89	808.27	26.62	31.360		
3,600.00	3,556.87	3,389.53	3,203.01	14.35	20.71	-58.57	-351.96	993.50	865.94	838.39	27.54	31.440		
3,700.00	3,654.59	3,484.58	3,288.31	14.84	21.57	-58.68	-368.26	1,032.11	896.99	868.46	28.52	31.446		
3,800.00	3,752.31	3,579.62	3,373.62	15.34	22.43	-58.79	-384.56	1,070.72	928.04	898.53	29.51	31.448		
3,900.00	3,850.03	3,674.67	3,458.92	15.83	23.30	-58.88	-400.86	1,109.33	959.09	928.59	30.50	31.447		
4,000.00	3,947.75	3,769.71	3,544.23	16.33	24.16	-58.97	-417.16	1,147.94	990.15	958.66	31.49	31.443		
4,100.00	4,045.47	3,864.75	3,629.53	16.83	25.03	-59.06	-433.46	1,186.55	1,021.21	988.73	32.48	31.438		
4,200.00	4,143.19	3,959.80	3,714.84	17.32	25.90	-59.14	-449.76	1,225.16	1,052.27	1,018.79	33.48	31.430		
4,300.00	4,240.91	4,054.84	3,800.14	17.82	26.77	-59.21	-466.06	1,263.77	1,083.34	1,048.86	34.48	31.422		
4,400.00	4,338.63	4,149.88	3,885.45	18.32	27.64	-59.28	-482.36	1,302.37	1,114.40	1,078.92	35.48	31.412		
4,500.00	4,436.35	4,244.93	3,970.75	18.82	28.51	-59.35	-498.66	1,340.98	1,145.47	1,108.99	36.48	31.402		
4,600.00	4,534.07	4,339.97	4,056.06	19.33	29.38	-59.42	-514.96	1,379.59	1,176.53	1,139.05	37.48	31.391		
4,700.00	4,631.79	4,435.01	4,141.36	19.83	30.25	-59.48	-531.26	1,418.20	1,207.60	1,169.12	38.48	31.379		
4,800.00	4,729.51	4,530.06	4,226.67	20.33	31.12	-59.53	-547.56	1,456.81	1,238.67	1,199.18	39.49	31.367		
4,900.00	4,827.23	4,625.10	4,311.97	20.83	32.00	-59.59	-563.85	1,495.42	1,269.74	1,229.25	40.50	31.354		
5,000.00	4,924.95	4,720.15	4,397.28	21.34	32.87	-59.64	-580.15	1,534.03	1,300.82	1,259.31	41.50	31.341		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,815.19	4,482.59	21.84	33.74	-59.69	-596.45	1,572.63	1,331.89	1,289.38	42.51	31.328		
5,200.00	5,120.39	4,910.23	4,567.89	22.35	34.62	-59.74	-612.75	1,611.24	1,362.96	1,319.44	43.52	31.315		
5,300.00	5,218.11	5,005.28	4,653.20	22.85	35.49	-59.78	-629.05	1,649.85	1,394.04	1,349.50	44.54	31.302		
5,400.00	5,315.83	5,100.32	4,738.50	23.36	36.37	-59.83	-645.35	1,688.46	1,425.11	1,379.57	45.55	31.289		
5,500.00	5,413.55	5,204.64	4,823.81	23.86	37.33	-59.87	-661.65	1,727.07	1,456.19	1,409.58	46.61	31.240		
5,600.00	5,511.27	5,309.59	4,909.11	24.37	38.30	-59.91	-677.95	1,765.68	1,487.27	1,439.58	47.68	31.191		
5,700.00	5,608.99	5,385.45	4,994.42	24.88	38.99	-59.95	-694.25	1,804.29	1,518.34	1,469.76	48.59	31.249		
5,800.00	5,706.71	5,480.49	5,079.72	25.38	39.87	-59.98	-710.55	1,842.89	1,549.42	1,499.82	49.60	31.236		
5,900.00	5,804.43	5,575.54	5,165.03	25.89	40.75	-60.02	-726.85	1,881.50	1,580.50	1,529.88	50.62	31.223		
6,000.00	5,902.15	5,670.58	5,250.33	26.40	41.62	-60.05	-743.15	1,920.11	1,611.58	1,559.94	51.64	31.211		
6,100.00	5,999.87	5,765.63	5,335.64	26.91	42.50	-60.08	-759.45	1,958.72	1,642.66	1,590.01	52.65	31.198		
6,200.00	6,097.59	5,860.67	5,420.94	27.42	43.38	-60.12	-775.75	1,997.33	1,673.74	1,620.07	53.67	31.185		
6,300.00	6,195.30	5,955.71	5,506.25	27.92	44.26	-60.15	-792.05	2,035.94	1,704.82	1,650.13	54.69	31.173		
6,400.00	6,293.02	6,050.76	5,591.55	28.43	45.13	-60.17	-808.35	2,074.55	1,735.90	1,680.19	55.71	31.161		
6,500.00	6,390.74	6,145.80	5,676.86	28.94	46.01	-60.20	-824.65	2,113.16	1,766.98	1,710.26	56.73	31.149		
6,600.00	6,488.46	6,240.84	5,762.16	29.45	46.89	-60.23	-840.95	2,151.76	1,798.06	1,740.32	57.75	31.137		
6,638.14	6,525.73	6,277.09	5,794.70	29.64	47.22	-60.24	-847.16	2,166.49	1,809.92	1,751.78	58.14	31.132		
6,700.00	6,586.32	6,335.78	5,847.38	29.95	47.77	-60.59	-857.23	2,190.33	1,829.46	1,770.71	58.75	31.138		
6,800.00	6,684.79	6,530.66	6,024.39	30.42	49.47	-61.04	-888.90	2,265.34	1,860.52	1,799.83	60.69	30.657		
6,900.00	6,783.81	6,771.94	6,250.50	30.85	51.24	-61.37	-921.56	2,342.71	1,886.21	1,823.51	62.70	30.083		
7,000.00	6,883.25	7,000.00	6,448.55	31.24	52.59	-61.63	-943.38	2,394.41	1,905.80	1,841.59	64.21	29.682		
7,100.00	6,983.00	7,277.10	6,742.26	31.60	53.80	-61.77	-965.40	2,446.57	1,919.21	1,853.75	65.46	29.320		
7,200.00	7,082.93	7,536.77	7,000.74	31.92	54.56	-61.84	-974.66	2,468.50	1,925.97	1,859.85	66.12	29.130		
7,251.07	7,134.00	7,670.07	7,134.00	32.06	54.82	89.44	-975.87	2,471.36	1,926.85	1,860.60	66.25	29.083		
7,300.00	7,182.93	7,719.00	7,182.93	32.19	54.90	89.44	-975.87	2,471.36	1,926.85	1,860.35	66.49	28.978		
7,351.07	7,234.00	7,770.07	7,234.00	32.32	54.99	89.44	-975.87	2,471.36	1,926.85	1,860.10	66.75	28.869		
7,351.07	7,234.00	7,770.08	7,234.00	32.32	54.99	89.44	-975.87	2,471.36	1,926.85	1,860.10	66.75	28.869		
7,400.00	7,282.87	7,819.62	7,283.48	32.47	55.08	-90.21	-978.01	2,471.37	1,926.85	1,859.81	67.03	28.745		
7,450.00	7,332.44	7,870.24	7,333.66	32.67	55.19	-90.21	-984.60	2,471.41	1,926.85	1,859.45	67.40	28.588		
7,500.00	7,381.26	7,920.85	7,383.05	32.90	55.32	-90.21	-995.59	2,471.48	1,926.85	1,859.01	67.84	28.403		
7,550.00	7,428.96	7,971.45	7,431.26	33.18	55.47	-90.20	-1,010.89	2,471.57	1,926.85	1,858.50	68.35	28.192		
7,600.00	7,475.17	8,022.03	7,477.92	33.48	55.64	-90.19	-1,030.38	2,471.69	1,926.85	1,857.93	68.92	27.957		
7,650.00	7,519.55	8,072.59	7,522.66	33.82	55.83	-90.19	-1,053.89	2,471.83	1,926.85	1,857.29	69.56	27.700		
7,700.00	7,561.76	8,123.12	7,565.13	34.20	56.04	-90.18	-1,081.23	2,471.99	1,926.85	1,856.58	70.27	27.422		
7,750.00	7,601.47	8,173.61	7,605.00	34.60	56.27	-90.16	-1,112.19	2,472.18	1,926.85	1,855.82	71.03	27.126		
7,800.00	7,638.39	8,224.07	7,641.97	35.04	56.51	-90.15	-1,146.51	2,472.38	1,926.85	1,854.99	71.86	26.813		
7,850.00	7,672.23	8,274.49	7,675.75	35.50	56.77	-90.14	-1,183.91	2,472.61	1,926.85	1,854.11	72.75	26.487		
7,900.00	7,702.74	8,324.87	7,706.08	35.99	57.05	-90.12	-1,224.11	2,472.85	1,926.85	1,853.17	73.69	26.150		
7,950.00	7,729.67	8,375.20	7,732.75	36.50	57.34	-90.11	-1,266.77	2,473.11	1,926.86	1,852.18	74.67	25.803		
8,000.00	7,752.84	8,425.48	7,755.56	37.04	57.64	-90.09	-1,311.57	2,473.38	1,926.86	1,851.15	75.71	25.451		
8,050.00	7,772.06	8,475.71	7,774.33	37.60	57.96	-90.07	-1,358.15	2,473.66	1,926.86	1,850.08	76.78	25.096		
8,100.00	7,787.18	8,525.90	7,788.94	38.17	58.29	-90.05	-1,406.14	2,473.95	1,926.86	1,848.98	77.89	24.740		
8,150.00	7,798.10	8,576.02	7,799.29	38.76	58.64	-90.04	-1,455.17	2,474.24	1,926.86	1,847.85	79.02	24.386		
8,200.00	7,804.72	8,626.10	7,805.31	39.36	58.99	-90.02	-1,504.86	2,474.54	1,926.87	1,846.70	80.16	24.037		
8,251.15	7,807.00	8,677.27	7,807.00	39.97	59.36	-90.00	-1,555.98	2,474.85	1,926.87	1,845.52	81.35	23.688		
8,300.00	7,807.00	8,726.12	7,807.00	40.56	59.72	-90.00	-1,604.84	2,475.14	1,926.87	1,844.38	82.49	23.359		
8,400.00	7,807.00	8,826.12	7,807.00	41.80	60.49	-90.00	-1,704.84	2,475.74	1,926.88	1,841.99	84.89	22.699		
8,500.00	7,807.00	8,926.12	7,807.00	43.08	61.29	-90.00	-1,804.83	2,476.35	1,926.88	1,839.52	87.37	22.055		
8,600.00	7,806.99	9,026.12	7,807.00	44.40	62.13	-90.00	-1,904.83	2,476.95	1,926.89	1,836.97	89.92	21.430		
8,700.00	7,806.99	9,126.12	7,806.99	45.74	63.01	-90.00	-2,004.83	2,477.55	1,926.90	1,834.36	92.53	20.824		
8,800.00	7,806.99	9,226.12	7,806.99	47.11	63.92	-90.00	-2,104.83	2,478.15	1,926.90	1,831.69	95.21	20.239		
8,900.00	7,806.99	9,326.12	7,806.99	48.51	64.87	-90.00	-2,204.83	2,478.75	1,926.91	1,828.97	97.94	19.675		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,426.12	7,806.99	49.93	65.85	-90.00	-2,304.82	2,479.35	1,926.91	1,826.20	100.72	19.132		
9,100.00	7,806.99	9,526.12	7,806.99	51.38	66.86	-90.00	-2,404.82	2,479.96	1,926.92	1,823.37	103.54	18.610		
9,200.00	7,806.99	9,626.12	7,806.99	52.84	67.91	-90.00	-2,504.82	2,480.56	1,926.92	1,820.51	106.41	18.108		
9,300.00	7,806.98	9,726.12	7,806.99	54.32	68.98	-90.00	-2,604.82	2,481.16	1,926.93	1,817.61	109.32	17.626		
9,400.00	7,806.98	9,826.12	7,806.99	55.82	70.09	-90.00	-2,704.82	2,481.76	1,926.94	1,814.67	112.27	17.163		
9,500.00	7,806.98	9,926.12	7,806.98	57.34	71.22	-90.00	-2,804.82	2,482.36	1,926.94	1,811.69	115.25	16.720		
9,600.00	7,806.98	10,026.12	7,806.98	58.87	72.38	-90.00	-2,904.81	2,482.96	1,926.95	1,808.69	118.26	16.294		
9,700.00	7,806.98	10,126.12	7,806.98	60.41	73.56	-90.00	-3,004.81	2,483.57	1,926.95	1,805.65	121.30	15.886		
9,800.00	7,806.98	10,226.12	7,806.98	61.96	74.77	-90.00	-3,104.81	2,484.17	1,926.96	1,802.59	124.37	15.494		
9,900.00	7,806.97	10,326.12	7,806.98	63.53	76.00	-90.00	-3,204.81	2,484.77	1,926.97	1,799.51	127.46	15.118		
10,000.00	7,806.97	10,426.12	7,806.98	65.10	77.25	-90.00	-3,304.81	2,485.37	1,926.97	1,796.40	130.57	14.758		
10,100.00	7,806.97	10,526.12	7,806.98	66.69	78.53	-90.00	-3,404.80	2,485.97	1,926.98	1,793.27	133.71	14.412		
10,200.00	7,806.97	10,626.12	7,806.98	68.29	79.82	-90.00	-3,504.80	2,486.58	1,926.98	1,790.12	136.86	14.080		
10,300.00	7,806.97	10,726.12	7,806.97	69.89	81.14	-90.00	-3,604.80	2,487.18	1,926.99	1,786.95	140.04	13.760		
10,400.00	7,806.97	10,826.12	7,806.97	71.50	82.47	-90.00	-3,704.80	2,487.78	1,927.00	1,783.77	143.23	13.454		
10,500.00	7,806.97	10,926.12	7,806.97	73.12	83.82	-90.00	-3,804.80	2,488.38	1,927.00	1,780.56	146.44	13.159		
10,600.00	7,806.96	11,026.12	7,806.97	74.75	85.19	-90.00	-3,904.80	2,488.98	1,927.01	1,777.35	149.66	12.876		
10,700.00	7,806.96	11,126.12	7,806.97	76.38	86.57	-90.00	-4,004.79	2,489.58	1,927.01	1,774.11	152.90	12.603		
10,800.00	7,806.96	11,226.12	7,806.97	78.02	87.97	-90.00	-4,104.79	2,490.19	1,927.02	1,770.87	156.15	12.341		
10,900.00	7,806.96	11,326.12	7,806.97	79.66	89.38	-90.00	-4,204.79	2,490.79	1,927.03	1,767.61	159.41	12.088		
11,000.00	7,806.96	11,426.12	7,806.97	81.31	90.81	-90.00	-4,304.79	2,491.39	1,927.03	1,764.34	162.69	11.845		
11,100.00	7,806.96	11,526.12	7,806.96	82.97	92.24	-90.00	-4,404.79	2,491.99	1,927.04	1,761.06	165.98	11.610		
11,200.00	7,806.95	11,626.12	7,806.96	84.63	93.69	-90.00	-4,504.78	2,492.59	1,927.04	1,757.77	169.27	11.384		
11,300.00	7,806.95	11,726.12	7,806.96	86.29	95.16	-90.00	-4,604.78	2,493.19	1,927.05	1,754.47	172.58	11.166		
11,400.00	7,806.95	11,826.12	7,806.96	87.96	96.63	-90.00	-4,704.78	2,493.80	1,927.06	1,751.16	175.90	10.956		
11,500.00	7,806.95	11,926.12	7,806.96	89.64	98.12	-90.00	-4,804.78	2,494.40	1,927.06	1,747.84	179.22	10.752		
11,600.00	7,806.95	12,026.12	7,806.96	91.31	99.61	-90.00	-4,904.78	2,495.00	1,927.07	1,744.51	182.55	10.556		
11,700.00	7,806.95	12,126.12	7,806.96	92.99	101.12	-90.00	-5,004.78	2,495.60	1,927.07	1,741.18	185.90	10.366		
11,800.00	7,806.95	12,226.12	7,806.96	94.68	102.63	-90.00	-5,104.77	2,496.20	1,927.08	1,737.83	189.24	10.183		
11,900.00	7,806.94	12,326.12	7,806.95	96.36	104.15	-90.00	-5,204.77	2,496.81	1,927.08	1,734.49	192.60	10.006		
12,000.00	7,806.94	12,426.12	7,806.95	98.05	105.68	-90.00	-5,304.77	2,497.41	1,927.09	1,731.13	195.96	9.834		
12,100.00	7,806.94	12,526.12	7,806.95	99.74	107.22	-90.00	-5,404.77	2,498.01	1,927.10	1,727.77	199.33	9.668		
12,200.00	7,806.94	12,626.12	7,806.95	101.44	108.77	-90.00	-5,504.77	2,498.61	1,927.10	1,724.40	202.71	9.507		
12,300.00	7,806.94	12,726.12	7,806.95	103.14	110.32	-90.00	-5,604.76	2,499.21	1,927.11	1,721.02	206.09	9.351		
12,400.00	7,806.94	12,826.12	7,806.95	104.84	111.88	-90.00	-5,704.76	2,499.81	1,927.11	1,717.64	209.47	9.200		
12,500.00	7,806.93	12,926.12	7,806.95	106.54	113.45	-90.00	-5,804.76	2,500.42	1,927.12	1,714.26	212.86	9.053		
12,600.00	7,806.93	13,026.12	7,806.95	108.25	115.02	-90.00	-5,904.76	2,501.02	1,927.13	1,710.87	216.26	8.911		
12,700.00	7,806.93	13,126.12	7,806.94	109.95	116.60	-90.00	-6,004.76	2,501.62	1,927.13	1,707.47	219.66	8.773		
12,800.00	7,806.93	13,226.12	7,806.94	111.66	118.19	-90.00	-6,104.76	2,502.22	1,927.14	1,704.07	223.07	8.639		
12,900.00	7,806.93	13,326.12	7,806.94	113.37	119.78	-90.00	-6,204.75	2,502.82	1,927.14	1,700.67	226.48	8.509		
13,000.00	7,806.93	13,426.12	7,806.94	115.09	121.38	-90.00	-6,304.75	2,503.42	1,927.15	1,697.26	229.89	8.383		
13,100.00	7,806.93	13,526.12	7,806.94	116.80	122.98	-90.00	-6,404.75	2,504.03	1,927.16	1,693.85	233.31	8.260		
13,200.00	7,806.92	13,626.12	7,806.94	118.52	124.59	-90.00	-6,504.75	2,504.63	1,927.16	1,690.43	236.73	8.141		
13,300.00	7,806.92	13,726.12	7,806.94	120.24	126.20	-90.00	-6,604.75	2,505.23	1,927.17	1,687.01	240.15	8.025		
13,400.00	7,806.92	13,826.12	7,806.94	121.96	127.81	-90.00	-6,704.74	2,505.83	1,927.17	1,683.59	243.58	7.912		
13,500.00	7,806.92	13,926.12	7,806.93	123.68	129.43	-90.00	-6,804.74	2,506.43	1,927.18	1,680.16	247.01	7.802		
13,600.00	7,806.92	14,026.12	7,806.93	125.40	131.06	-90.00	-6,904.74	2,507.03	1,927.19	1,676.74	250.45	7.695		
13,700.00	7,806.92	14,126.12	7,806.93	127.12	132.69	-90.00	-7,004.74	2,507.64	1,927.19	1,673.30	253.89	7.591		
13,800.00	7,806.91	14,226.12	7,806.93	128.85	134.32	-90.00	-7,104.74	2,508.24	1,927.20	1,669.87	257.33	7.489		
13,900.00	7,806.91	14,326.12	7,806.93	130.58	135.96	-90.00	-7,204.74	2,508.84	1,927.20	1,666.43	260.77	7.390		
14,000.00	7,806.91	14,426.12	7,806.93	132.30	137.60	-90.00	-7,304.73	2,509.44	1,927.21	1,662.99	264.22	7.294		
14,100.00	7,806.91	14,526.12	7,806.93	134.03	139.24	-90.00	-7,404.73	2,510.04	1,927.21	1,659.55	267.67	7.200		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,626.12	7,806.93	135.76	140.89	-90.00	-7,504.73	2,510.65	1,927.22	1,656.10	271.12	7.108		
14,300.00	7,806.91	14,726.12	7,806.92	137.50	142.54	-90.00	-7,604.73	2,511.25	1,927.23	1,652.65	274.57	7.019		
14,400.00	7,806.91	14,826.12	7,806.92	139.23	144.19	-90.00	-7,704.73	2,511.85	1,927.23	1,649.20	278.03	6.932		
14,500.00	7,806.90	14,926.12	7,806.92	140.96	145.84	-90.00	-7,804.72	2,512.45	1,927.24	1,645.75	281.49	6.847		
14,600.00	7,806.90	15,026.12	7,806.92	142.70	147.50	-90.00	-7,904.72	2,513.05	1,927.24	1,642.29	284.95	6.763		
14,700.00	7,806.90	15,126.12	7,806.92	144.43	149.16	-90.00	-8,004.72	2,513.65	1,927.25	1,638.84	288.41	6.682		
14,800.00	7,806.90	15,226.12	7,806.92	146.17	150.83	-90.00	-8,104.72	2,514.26	1,927.26	1,635.38	291.88	6.603		
14,900.00	7,806.90	15,326.12	7,806.92	147.91	152.50	-90.00	-8,204.72	2,514.86	1,927.26	1,631.92	295.35	6.525		
15,000.00	7,806.90	15,426.12	7,806.92	149.64	154.16	-90.00	-8,304.72	2,515.46	1,927.27	1,628.45	298.81	6.450		
15,100.00	7,806.89	15,526.12	7,806.91	151.38	155.84	-90.00	-8,404.71	2,516.06	1,927.27	1,624.99	302.29	6.376		
15,200.00	7,806.89	15,626.12	7,806.91	153.12	157.51	-90.00	-8,504.71	2,516.66	1,927.28	1,621.52	305.76	6.303		
15,300.00	7,806.89	15,726.12	7,806.91	154.86	159.19	-90.00	-8,604.71	2,517.26	1,927.29	1,618.05	309.23	6.233		
15,400.00	7,806.89	15,826.12	7,806.91	156.60	160.87	-90.00	-8,704.71	2,517.87	1,927.29	1,614.59	312.71	6.163		
15,500.00	7,806.89	15,926.12	7,806.91	158.35	162.55	-90.00	-8,804.71	2,518.47	1,927.30	1,611.11	316.18	6.095		
15,600.00	7,806.89	16,026.12	7,806.91	160.09	164.23	-90.00	-8,904.71	2,519.07	1,927.30	1,607.64	319.66	6.029		
15,700.00	7,806.89	16,126.12	7,806.91	161.83	165.91	-90.00	-9,004.70	2,519.67	1,927.31	1,604.17	323.14	5.964		
15,800.00	7,806.88	16,226.12	7,806.91	163.57	167.60	-90.00	-9,104.70	2,520.27	1,927.32	1,600.69	326.62	5.901		
15,900.00	7,806.88	16,326.12	7,806.90	165.32	169.29	-90.00	-9,204.70	2,520.88	1,927.32	1,597.21	330.11	5.838		
16,000.00	7,806.88	16,426.12	7,806.90	167.06	170.98	-90.00	-9,304.70	2,521.48	1,927.33	1,593.74	333.59	5.778		
16,100.00	7,806.88	16,526.12	7,806.90	168.81	172.67	-90.00	-9,404.70	2,522.08	1,927.33	1,590.26	337.08	5.718		
16,200.00	7,806.88	16,626.12	7,806.90	170.56	174.36	-90.00	-9,504.69	2,522.68	1,927.34	1,586.78	340.56	5.659		
16,300.00	7,806.88	16,726.12	7,806.90	172.30	176.06	-90.00	-9,604.69	2,523.28	1,927.35	1,583.29	344.05	5.602		
16,400.00	7,806.87	16,826.12	7,806.90	174.05	177.75	-90.00	-9,704.69	2,523.88	1,927.35	1,579.81	347.54	5.546		
16,500.00	7,806.87	16,926.12	7,806.90	175.80	179.45	-90.00	-9,804.69	2,524.49	1,927.36	1,576.33	351.03	5.491		
16,600.00	7,806.87	17,026.12	7,806.90	177.55	181.15	-90.00	-9,904.69	2,525.09	1,927.36	1,572.84	354.52	5.436		
16,700.00	7,806.87	17,126.12	7,806.89	179.30	182.85	-90.00	-10,004.69	2,525.69	1,927.37	1,569.35	358.02	5.383		
16,800.00	7,806.87	17,226.12	7,806.89	181.04	184.56	-90.00	-10,104.68	2,526.29	1,927.37	1,565.87	361.51	5.331		
16,900.00	7,806.87	17,326.12	7,806.89	182.79	186.26	-90.00	-10,204.68	2,526.89	1,927.38	1,562.38	365.00	5.280		
17,000.00	7,806.87	17,426.12	7,806.89	184.54	187.97	-90.00	-10,304.68	2,527.49	1,927.39	1,558.89	368.50	5.230		
17,100.00	7,806.86	17,526.12	7,806.89	186.30	189.67	-90.00	-10,404.68	2,528.10	1,927.39	1,555.40	372.00	5.181		
17,200.00	7,806.86	17,626.12	7,806.89	188.05	191.38	-90.00	-10,504.68	2,528.70	1,927.40	1,551.91	375.49	5.133		
17,300.00	7,806.86	17,726.12	7,806.89	189.80	193.09	-90.00	-10,604.67	2,529.30	1,927.40	1,548.41	378.99	5.086		
17,400.00	7,806.86	17,826.12	7,806.89	191.55	194.80	-90.00	-10,704.67	2,529.90	1,927.41	1,544.92	382.49	5.039		
17,500.00	7,806.86	17,926.12	7,806.88	193.30	196.51	-90.00	-10,804.67	2,530.50	1,927.42	1,541.43	385.99	4.993		
17,600.00	7,806.86	18,026.12	7,806.88	195.06	198.22	-90.00	-10,904.67	2,531.11	1,927.42	1,537.93	389.49	4.949		
17,700.00	7,806.85	18,126.12	7,806.88	196.81	199.94	-90.00	-11,004.67	2,531.71	1,927.43	1,534.43	392.99	4.904		
17,800.00	7,806.85	18,226.12	7,806.88	198.56	201.65	-90.00	-11,104.67	2,532.31	1,927.43	1,530.94	396.50	4.861		
17,800.37	7,806.85	18,226.49	7,806.88	198.57	201.66	-90.00	-11,105.03	2,532.31	1,927.43	1,530.92	396.51	4.861		
17,898.35	7,807.00	18,313.96	7,806.92	200.29	203.16	-90.00	-11,192.51	2,532.91	1,927.54	1,527.54	400.00	4.819 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.00	179.95	179.95	178.25	1.70	105.682		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.00	179.95	179.95	177.53	2.42	74.369		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.00	179.95	179.95	176.81	3.14	57.370		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-1.00	179.95	179.95	176.10	3.85	46.697	CC, ES	
700.00	700.00	694.38	694.37	2.29	2.25	90.48	-1.53	181.41	181.50	176.96	4.54	39.984		
800.00	800.00	788.56	788.43	2.64	2.58	90.96	-3.13	185.77	186.16	180.94	5.22	35.689		
900.00	900.00	882.33	881.88	3.00	2.91	91.71	-5.77	193.00	193.94	188.05	5.89	32.922		
1,000.00	1,000.00	975.50	974.43	3.36	3.25	92.66	-9.43	203.03	204.85	198.29	6.56	31.219		
1,100.00	1,100.00	1,067.88	1,065.80	3.72	3.61	93.73	-14.07	215.76	218.90	211.68	7.23	30.290		
1,200.00	1,200.00	1,159.29	1,155.74	4.08	3.98	94.86	-19.66	231.07	236.09	228.21	7.88	29.944		
1,300.00	1,300.00	1,249.56	1,244.00	4.44	4.38	96.00	-26.14	248.83	256.39	247.85	8.53	30.043		
1,400.00	1,399.98	1,338.82	1,330.66	4.78	4.80	-54.10	-33.48	268.95	278.76	269.61	9.15	30.467		
1,500.00	1,499.84	1,427.28	1,415.83	5.11	5.24	-53.40	-41.66	291.38	302.13	292.38	9.75	30.987		
1,600.00	1,599.45	1,514.91	1,499.44	5.44	5.72	-53.08	-50.66	316.03	326.39	316.04	10.35	31.529		
1,700.00	1,698.70	1,601.66	1,581.38	5.79	6.23	-53.06	-60.42	342.78	351.51	340.55	10.96	32.073		
1,800.00	1,797.47	1,687.51	1,661.57	6.15	6.78	-53.27	-70.91	371.54	377.47	365.89	11.58	32.597		
1,900.00	1,895.62	1,772.41	1,739.96	6.53	7.37	-53.66	-82.09	402.19	404.28	392.06	12.22	33.087		
1,912.93	1,908.27	1,783.32	1,749.96	6.58	7.44	-53.72	-83.59	406.28	407.81	395.51	12.30	33.155		
2,000.00	1,993.35	1,856.23	1,816.35	6.93	7.99	-54.45	-93.91	434.57	432.70	419.83	12.88	33.601		
2,100.00	2,091.07	1,938.68	1,890.49	7.34	8.65	-55.11	-106.28	468.46	463.86	450.32	13.55	34.239		
2,200.00	2,188.79	2,023.80	1,965.97	7.77	9.37	-55.64	-119.76	505.42	497.54	483.27	14.28	34.849		
2,300.00	2,286.51	2,117.63	2,048.90	8.20	10.20	-56.13	-134.81	546.66	531.87	516.73	15.14	35.120		
2,400.00	2,384.23	2,211.46	2,131.83	8.65	11.04	-56.55	-149.86	587.90	566.23	550.20	16.03	35.324		
2,500.00	2,481.95	2,305.30	2,214.76	9.10	11.90	-56.93	-164.91	629.14	600.61	583.68	16.93	35.476		
2,600.00	2,579.67	2,400.87	2,297.69	9.56	12.78	-57.27	-179.95	670.38	635.01	617.16	17.85	35.569		
2,700.00	2,677.39	2,507.04	2,380.62	10.02	13.78	-57.58	-195.00	711.62	669.43	650.59	18.84	35.525		
2,800.00	2,775.11	2,586.80	2,463.55	10.49	14.53	-57.85	-210.05	752.86	703.86	684.16	19.71	35.720		
2,900.00	2,872.83	2,680.63	2,546.48	10.96	15.42	-58.10	-225.10	794.11	738.31	717.66	20.65	35.754		
3,000.00	2,970.55	2,774.47	2,629.41	11.44	16.31	-58.32	-240.15	835.35	772.77	751.17	21.60	35.774		
3,100.00	3,068.27	2,868.30	2,712.34	11.92	17.21	-58.53	-255.20	876.59	807.24	784.68	22.56	35.781		
3,200.00	3,165.99	2,962.13	2,795.27	12.40	18.11	-58.72	-270.24	917.83	841.72	818.19	23.53	35.779		
3,300.00	3,263.71	3,055.97	2,878.20	12.88	19.01	-58.90	-285.29	959.07	876.20	851.70	24.50	35.770		
3,400.00	3,361.43	3,149.80	2,961.14	13.37	19.92	-59.06	-300.34	1,000.31	910.69	885.22	25.47	35.754		
3,500.00	3,459.15	3,243.63	3,044.07	13.86	20.82	-59.21	-315.39	1,041.55	945.19	918.74	26.45	35.735		
3,600.00	3,556.87	3,337.47	3,127.00	14.35	21.73	-59.35	-330.44	1,082.80	979.69	952.26	27.43	35.711		
3,700.00	3,654.59	3,431.30	3,209.93	14.84	22.65	-59.48	-345.49	1,124.04	1,014.20	985.78	28.42	35.685		
3,800.00	3,752.31	3,525.14	3,292.86	15.34	23.56	-59.60	-360.53	1,165.28	1,048.71	1,019.30	29.41	35.658		
3,900.00	3,850.03	3,618.97	3,375.79	15.83	24.47	-59.71	-375.58	1,206.52	1,083.22	1,052.82	30.40	35.628		
4,000.00	3,947.75	3,712.80	3,458.72	16.33	25.39	-59.82	-390.63	1,247.76	1,117.74	1,086.34	31.40	35.598		
4,100.00	4,045.47	3,806.64	3,541.65	16.83	26.30	-59.92	-405.68	1,289.00	1,152.26	1,119.87	32.40	35.567		
4,200.00	4,143.19	3,900.47	3,624.58	17.32	27.22	-60.01	-420.73	1,330.25	1,186.79	1,153.39	33.40	35.535		
4,300.00	4,240.91	4,005.70	3,707.51	17.82	28.25	-60.10	-435.78	1,371.49	1,221.32	1,186.85	34.47	35.436		
4,400.00	4,338.63	4,088.14	3,790.44	18.32	29.06	-60.19	-450.82	1,412.73	1,255.85	1,220.44	35.40	35.472		
4,500.00	4,436.35	4,181.97	3,873.37	18.82	29.98	-60.27	-465.87	1,453.97	1,290.38	1,253.97	36.41	35.440		
4,600.00	4,534.07	4,275.81	3,956.30	19.33	30.90	-60.34	-480.92	1,495.21	1,324.91	1,287.49	37.42	35.409		
4,700.00	4,631.79	4,369.64	4,039.23	19.83	31.82	-60.41	-495.97	1,536.45	1,359.45	1,321.02	38.43	35.377		
4,800.00	4,729.51	4,463.47	4,122.16	20.33	32.74	-60.48	-511.02	1,577.69	1,393.99	1,354.55	39.44	35.347		
4,900.00	4,827.23	4,557.31	4,205.09	20.83	33.67	-60.55	-526.07	1,618.94	1,428.53	1,388.08	40.45	35.316		
5,000.00	4,924.95	4,651.14	4,288.02	21.34	34.59	-60.61	-541.11	1,660.18	1,463.07	1,421.60	41.46	35.287		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,744.97	4,370.95	21.84	35.51	-60.67	-556.16	1,701.42	1,497.61	1,455.13	42.48	35.257		
5,200.00	5,120.39	4,838.81	4,453.88	22.35	36.43	-60.72	-571.21	1,742.66	1,532.15	1,488.66	43.49	35.228		
5,300.00	5,218.11	4,932.64	4,536.81	22.85	37.36	-60.78	-586.26	1,783.90	1,566.70	1,522.19	44.51	35.200		
5,400.00	5,315.83	5,026.48	4,619.74	23.36	38.28	-60.83	-601.31	1,825.14	1,601.24	1,555.72	45.53	35.172		
5,500.00	5,413.55	5,120.31	4,702.67	23.86	39.21	-60.88	-616.36	1,866.38	1,635.79	1,589.25	46.54	35.145		
5,600.00	5,511.27	5,214.14	4,785.61	24.37	40.13	-60.92	-631.40	1,907.63	1,670.34	1,622.78	47.56	35.118		
5,700.00	5,608.99	5,307.98	4,868.54	24.88	41.06	-60.97	-646.45	1,948.87	1,704.89	1,656.31	48.58	35.092		
5,800.00	5,706.71	5,401.81	4,951.47	25.38	41.98	-61.01	-661.50	1,990.11	1,739.44	1,689.84	49.60	35.067		
5,900.00	5,804.43	5,504.36	5,034.40	25.89	42.99	-61.06	-676.55	2,031.35	1,773.99	1,723.32	50.68	35.007		
6,000.00	5,902.15	5,589.48	5,117.33	26.40	43.83	-61.10	-691.60	2,072.59	1,808.54	1,756.90	51.65	35.017		
6,100.00	5,999.87	5,683.31	5,200.26	26.91	44.76	-61.13	-706.65	2,113.83	1,843.10	1,790.43	52.67	34.993		
6,200.00	6,097.59	5,777.15	5,283.19	27.42	45.68	-61.17	-721.69	2,155.07	1,877.65	1,823.96	53.69	34.970		
6,300.00	6,195.30	5,870.98	5,366.12	27.92	46.61	-61.21	-736.74	2,196.32	1,912.20	1,857.49	54.72	34.947		
6,400.00	6,293.02	5,964.81	5,449.05	28.43	47.54	-61.24	-751.79	2,237.56	1,946.76	1,891.02	55.74	34.925		
6,500.00	6,390.74	6,058.65	5,531.98	28.94	48.46	-61.28	-766.84	2,278.80	1,981.31	1,924.55	56.77	34.903		
6,600.00	6,488.46	6,152.48	5,614.91	29.45	49.39	-61.31	-781.89	2,320.04	2,015.87	1,958.08	57.79	34.881		
6,638.14	6,525.73	6,188.27	5,646.54	29.64	49.74	-61.32	-787.63	2,335.77	2,029.05	1,970.86	58.18	34.873		
6,700.00	6,586.32	6,246.21	5,697.74	29.95	50.31	-61.73	-796.92	2,361.23	2,050.72	1,991.92	58.81	34.873		
6,800.00	6,684.79	6,339.35	5,780.07	30.42	51.23	-62.35	-811.86	2,402.17	2,087.01	2,027.26	59.75	34.928		
6,900.00	6,783.81	6,431.77	5,861.75	30.85	52.15	-62.91	-826.68	2,442.79	2,124.81	2,064.18	60.63	35.047		
7,000.00	6,883.25	6,523.35	5,942.69	31.24	53.05	-63.44	-841.37	2,483.04	2,164.10	2,102.67	61.43	35.229		
7,100.00	6,983.00	6,613.98	6,022.78	31.60	53.95	-63.92	-855.90	2,522.87	2,204.87	2,142.71	62.16	35.470		
7,200.00	7,082.93	6,849.19	6,233.76	31.92	56.13	-63.76	-891.50	2,620.44	2,245.37	2,181.14	64.23	34.961		
7,251.07	7,134.00	7,251.07	6,345.73	32.06	59.31	87.65	-907.42	2,664.07	2,262.99	2,196.43	66.57	33.996		
7,300.00	7,182.93	7,206.78	6,568.84	32.19	58.75	88.42	-934.07	2,737.11	2,277.69	2,211.01	66.68	34.157		
7,351.07	7,234.00	7,400.88	6,756.44	32.32	59.83	88.89	-951.09	2,783.75	2,289.92	2,222.30	67.62	33.865		
7,400.00	7,282.87	7,592.89	6,944.92	32.47	60.67	-89.76	-963.60	2,818.03	2,298.64	2,230.32	68.32	33.644		
7,450.00	7,332.44	7,792.04	7,142.52	32.67	61.32	-89.61	-971.97	2,840.98	2,304.38	2,235.51	68.87	33.459		
7,500.00	7,381.26	7,989.47	7,339.63	32.90	61.77	-90.32	-975.61	2,850.95	2,306.93	2,237.69	69.24	33.317		
7,550.00	7,428.96	8,078.80	7,428.96	33.18	61.91	-90.92	-975.79	2,851.45	2,307.26	2,237.52	69.74	33.084		
7,600.00	7,475.17	8,125.02	7,475.17	33.48	61.98	-91.31	-975.79	2,851.45	2,307.66	2,237.25	70.41	32.773		
7,650.00	7,519.55	8,173.42	7,523.56	33.82	62.06	-91.78	-976.50	2,851.46	2,308.33	2,237.17	71.16	32.437		
7,700.00	7,561.76	8,226.52	7,576.40	34.20	62.15	-92.29	-981.60	2,851.49	2,309.23	2,237.28	71.95	32.094		
7,750.00	7,601.47	8,282.44	7,631.28	34.60	62.28	-92.80	-992.23	2,851.55	2,310.34	2,237.57	72.77	31.747		
7,800.00	7,638.39	8,341.55	7,687.87	35.04	62.43	-93.30	-1,009.23	2,851.66	2,311.62	2,238.00	73.62	31.399		
7,850.00	7,672.23	8,404.25	7,745.64	35.50	62.62	-93.81	-1,033.52	2,851.80	2,313.04	2,238.56	74.48	31.056		
7,900.00	7,702.74	8,470.92	7,803.76	35.99	62.86	-94.30	-1,066.09	2,852.00	2,314.55	2,239.21	75.35	30.719		
7,950.00	7,729.67	8,541.88	7,861.02	36.50	63.13	-94.78	-1,107.93	2,852.25	2,316.10	2,239.90	76.20	30.396		
8,000.00	7,752.84	8,617.35	7,915.75	37.04	63.46	-95.24	-1,159.82	2,852.57	2,317.60	2,240.56	77.04	30.084		
8,050.00	7,772.06	8,697.35	7,965.79	37.60	63.84	-95.65	-1,222.15	2,852.95	2,318.98	2,241.13	77.85	29.786		
8,100.00	7,787.18	8,781.61	8,008.56	38.17	64.28	-96.00	-1,294.66	2,853.39	2,320.15	2,241.49	78.66	29.496		
8,150.00	7,798.10	8,869.49	8,041.36	38.76	64.77	-96.26	-1,376.09	2,853.88	2,321.04	2,241.57	79.46	29.209		
8,200.00	7,804.72	8,959.95	8,061.71	39.36	65.31	-96.42	-1,464.13	2,854.41	2,321.57	2,241.29	80.28	28.919		
8,251.15	7,807.00	9,053.75	8,067.93	39.97	65.91	-96.45	-1,557.62	2,854.98	2,321.70	2,240.54	81.15	28.609		
8,252.29	7,807.00	9,050.88	8,068.00	39.98	65.89	-96.45	-1,554.75	2,854.96	2,321.70	2,240.50	81.20	28.591		
8,300.00	7,807.00	9,101.41	8,068.00	40.56	66.22	-96.45	-1,602.46	2,855.25	2,321.71	2,239.39	82.31	28.205		
8,400.00	7,807.00	9,201.41	8,068.00	41.80	66.90	-96.45	-1,702.46	2,855.86	2,321.72	2,237.07	84.65	27.427		
8,500.00	7,807.00	9,301.41	8,067.99	43.08	67.61	-96.45	-1,802.45	2,856.46	2,321.73	2,234.66	87.06	26.667		
8,600.00	7,806.99	9,401.41	8,067.99	44.40	68.36	-96.45	-1,902.45	2,857.07	2,321.74	2,232.18	89.55	25.926		
8,700.00	7,806.99	9,501.41	8,067.99	45.74	69.14	-96.45	-2,002.45	2,857.68	2,321.75	2,229.64	92.11	25.206		
8,800.00	7,806.99	9,598.59	8,067.99	47.11	69.93	-96.45	-2,102.45	2,858.28	2,321.76	2,227.06	94.69	24.519		
8,900.00	7,806.99	9,701.41	8,067.98	48.51	70.80	-96.45	-2,202.45	2,858.89	2,321.77	2,224.36	97.40	23.837		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,801.41	8,067.98	49.93	71.68	-96.45	-2,302.44	2,859.49	2,321.78	2,221.65	100.13	23.188		
9,100.00	7,806.99	9,901.41	8,067.98	51.38	72.59	-96.45	-2,402.44	2,860.10	2,321.79	2,218.88	102.91	22.562		
9,200.00	7,806.99	10,001.41	8,067.98	52.84	73.53	-96.45	-2,502.44	2,860.71	2,321.80	2,216.07	105.73	21.960		
9,300.00	7,806.98	10,101.41	8,067.98	54.32	74.50	-96.45	-2,602.44	2,861.31	2,321.81	2,213.22	108.59	21.382		
9,400.00	7,806.98	10,201.41	8,067.97	55.82	75.50	-96.45	-2,702.44	2,861.92	2,321.82	2,210.33	111.49	20.826		
9,500.00	7,806.98	10,301.41	8,067.97	57.34	76.52	-96.45	-2,802.43	2,862.52	2,321.83	2,207.40	114.42	20.292		
9,600.00	7,806.98	10,401.41	8,067.97	58.87	77.58	-96.45	-2,902.43	2,863.13	2,321.84	2,204.45	117.39	19.779		
9,700.00	7,806.98	10,501.41	8,067.97	60.41	78.66	-96.45	-3,002.43	2,863.74	2,321.85	2,201.46	120.39	19.287		
9,800.00	7,806.98	10,601.41	8,067.96	61.96	79.77	-96.45	-3,102.43	2,864.34	2,321.86	2,198.44	123.41	18.814		
9,900.00	7,806.97	10,701.41	8,067.96	63.53	80.90	-96.45	-3,202.43	2,864.95	2,321.87	2,195.40	126.46	18.360		
10,000.00	7,806.97	10,801.41	8,067.96	65.10	82.06	-96.45	-3,302.43	2,865.55	2,321.88	2,192.34	129.54	17.924		
10,100.00	7,806.97	10,901.41	8,067.96	66.69	83.23	-96.45	-3,402.42	2,866.16	2,321.89	2,189.25	132.64	17.506		
10,200.00	7,806.97	11,001.41	8,067.95	68.29	84.43	-96.45	-3,502.42	2,866.77	2,321.90	2,186.14	135.75	17.104		
10,300.00	7,806.97	11,101.41	8,067.95	69.89	85.66	-96.45	-3,602.42	2,867.37	2,321.91	2,183.01	138.89	16.717		
10,400.00	7,806.97	11,198.59	8,067.95	71.50	86.86	-96.45	-3,702.42	2,867.98	2,321.92	2,179.91	142.00	16.351		
10,500.00	7,806.97	11,301.41	8,067.95	73.12	88.16	-96.45	-3,802.42	2,868.58	2,321.93	2,176.70	145.22	15.989		
10,600.00	7,806.96	11,401.41	8,067.94	74.75	89.44	-96.45	-3,902.41	2,869.19	2,321.94	2,173.53	148.41	15.645		
10,700.00	7,806.96	11,501.41	8,067.94	76.38	90.74	-96.45	-4,002.41	2,869.80	2,321.95	2,170.33	151.61	15.315		
10,800.00	7,806.96	11,601.41	8,067.94	78.02	92.06	-96.45	-4,102.41	2,870.40	2,321.96	2,167.12	154.83	14.997		
10,900.00	7,806.96	11,701.41	8,067.94	79.66	93.39	-96.45	-4,202.41	2,871.01	2,321.97	2,163.90	158.06	14.690		
11,000.00	7,806.96	11,801.41	8,067.94	81.31	94.74	-96.45	-4,302.41	2,871.61	2,321.98	2,160.67	161.31	14.395		
11,100.00	7,806.96	11,898.59	8,067.93	82.97	96.06	-96.45	-4,402.41	2,872.22	2,321.99	2,157.47	164.52	14.114		
11,200.00	7,806.95	12,001.41	8,067.93	84.63	97.48	-96.45	-4,502.40	2,872.83	2,322.00	2,154.17	167.83	13.835		
11,300.00	7,806.95	12,101.41	8,067.93	86.29	98.87	-96.45	-4,602.40	2,873.43	2,322.01	2,150.90	171.11	13.571		
11,400.00	7,806.95	12,201.41	8,067.93	87.96	100.27	-96.45	-4,702.40	2,874.04	2,322.02	2,147.62	174.39	13.315		
11,500.00	7,806.95	12,301.41	8,067.92	89.64	101.69	-96.45	-4,802.40	2,874.64	2,322.03	2,144.34	177.69	13.068		
11,600.00	7,806.95	12,401.41	8,067.92	91.31	103.12	-96.45	-4,902.40	2,875.25	2,322.04	2,141.04	180.99	12.829		
11,700.00	7,806.95	12,501.41	8,067.92	92.99	104.56	-96.45	-5,002.39	2,875.86	2,322.05	2,137.74	184.31	12.599		
11,800.00	7,806.95	12,601.41	8,067.92	94.68	106.01	-96.45	-5,102.39	2,876.46	2,322.06	2,134.43	187.63	12.376		
11,900.00	7,806.94	12,701.41	8,067.91	96.36	107.48	-96.45	-5,202.39	2,877.07	2,322.07	2,131.11	190.96	12.160		
12,000.00	7,806.94	12,801.41	8,067.91	98.05	108.95	-96.45	-5,302.39	2,877.67	2,322.08	2,127.79	194.29	11.952		
12,100.00	7,806.94	12,901.41	8,067.91	99.74	110.43	-96.45	-5,402.39	2,878.28	2,322.09	2,124.45	197.63	11.750		
12,200.00	7,806.94	13,001.41	8,067.91	101.44	111.92	-96.45	-5,502.39	2,878.89	2,322.10	2,121.12	200.98	11.554		
12,300.00	7,806.94	13,101.41	8,067.90	103.14	113.42	-96.45	-5,602.38	2,879.49	2,322.11	2,117.77	204.33	11.364		
12,400.00	7,806.94	13,201.41	8,067.90	104.84	114.93	-96.45	-5,702.38	2,880.10	2,322.12	2,114.42	207.69	11.180		
12,500.00	7,806.93	13,301.41	8,067.90	106.54	116.45	-96.45	-5,802.38	2,880.70	2,322.13	2,111.07	211.06	11.002		
12,600.00	7,806.93	13,401.41	8,067.90	108.25	117.97	-96.45	-5,902.38	2,881.31	2,322.14	2,107.71	214.43	10.829		
12,700.00	7,806.93	13,501.41	8,067.90	109.95	119.51	-96.45	-6,002.38	2,881.92	2,322.15	2,104.34	217.81	10.662		
12,800.00	7,806.93	13,601.41	8,067.89	111.66	121.05	-96.45	-6,102.37	2,882.52	2,322.16	2,100.97	221.19	10.499		
12,900.00	7,806.93	13,701.41	8,067.89	113.37	122.59	-96.45	-6,202.37	2,883.13	2,322.17	2,097.60	224.57	10.340		
13,000.00	7,806.93	13,801.41	8,067.89	115.09	124.15	-96.45	-6,302.37	2,883.73	2,322.18	2,094.22	227.96	10.187		
13,100.00	7,806.93	13,901.41	8,067.89	116.80	125.71	-96.45	-6,402.37	2,884.34	2,322.19	2,090.83	231.35	10.037		
13,200.00	7,806.92	14,001.41	8,067.88	118.52	127.27	-96.45	-6,502.37	2,884.95	2,322.20	2,087.45	234.75	9.892		
13,300.00	7,806.92	14,101.41	8,067.88	120.24	128.84	-96.45	-6,602.37	2,885.55	2,322.21	2,084.06	238.15	9.751		
13,400.00	7,806.92	14,201.41	8,067.88	121.96	130.42	-96.45	-6,702.36	2,886.16	2,322.22	2,080.66	241.56	9.614		
13,500.00	7,806.92	14,301.41	8,067.88	123.68	132.00	-96.45	-6,802.36	2,886.76	2,322.23	2,077.26	244.97	9.480		
13,600.00	7,806.92	14,401.41	8,067.87	125.40	133.59	-96.45	-6,902.36	2,887.37	2,322.24	2,073.86	248.38	9.350		
13,700.00	7,806.92	14,501.41	8,067.87	127.12	135.18	-96.45	-7,002.36	2,887.98	2,322.25	2,070.46	251.79	9.223		
13,800.00	7,806.91	14,601.41	8,067.87	128.85	136.78	-96.45	-7,102.36	2,888.58	2,322.26	2,067.05	255.21	9.099		
13,900.00	7,806.91	14,701.41	8,067.87	130.58	138.38	-96.45	-7,202.35	2,889.19	2,322.27	2,063.64	258.63	8.979		
14,000.00	7,806.91	14,801.41	8,067.86	132.30	139.99	-96.45	-7,302.35	2,889.80	2,322.28	2,060.22	262.05	8.862		
14,100.00	7,806.91	14,901.41	8,067.86	134.03	141.60	-96.45	-7,402.35	2,890.40	2,322.29	2,056.81	265.48	8.747		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	15,001.41	8,067.86	135.76	143.21	-96.45	-7,502.35	2,891.01	2,322.30	2,053.39	268.91	8.636		
14,300.00	7,806.91	15,098.59	8,067.86	137.50	144.79	-96.45	-7,602.35	2,891.61	2,322.31	2,050.02	272.29	8.529		
14,400.00	7,806.91	15,201.41	8,067.86	139.23	146.45	-96.45	-7,702.35	2,892.22	2,322.32	2,046.54	275.77	8.421		
14,500.00	7,806.90	15,301.41	8,067.85	140.96	148.08	-96.45	-7,802.34	2,892.83	2,322.33	2,043.12	279.21	8.317		
14,600.00	7,806.90	15,401.41	8,067.85	142.70	149.71	-96.45	-7,902.34	2,893.43	2,322.34	2,039.69	282.65	8.216		
14,700.00	7,806.90	15,501.41	8,067.85	144.43	151.34	-96.45	-8,002.34	2,894.04	2,322.35	2,036.26	286.09	8.118		
14,800.00	7,806.90	15,601.41	8,067.85	146.17	152.98	-96.45	-8,102.34	2,894.64	2,322.36	2,032.82	289.53	8.021		
14,900.00	7,806.90	15,701.41	8,067.84	147.91	154.62	-96.45	-8,202.34	2,895.25	2,322.37	2,029.39	292.98	7.927		
15,000.00	7,806.90	15,798.59	8,067.84	149.64	156.22	-96.45	-8,302.33	2,895.86	2,322.38	2,026.00	296.38	7.836		
15,100.00	7,806.89	15,901.41	8,067.84	151.38	157.91	-96.45	-8,402.33	2,896.46	2,322.39	2,022.51	299.87	7.745		
15,200.00	7,806.89	16,001.41	8,067.84	153.12	159.56	-96.45	-8,502.33	2,897.07	2,322.40	2,019.07	303.32	7.656		
15,300.00	7,806.89	16,098.59	8,067.83	154.86	161.16	-96.45	-8,602.33	2,897.67	2,322.41	2,015.68	306.73	7.572		
15,400.00	7,806.89	16,201.41	8,067.83	156.60	162.87	-96.45	-8,702.33	2,898.28	2,322.42	2,012.19	310.23	7.486		
15,500.00	7,806.89	16,301.41	8,067.83	158.35	164.52	-96.45	-8,802.32	2,898.89	2,322.43	2,008.74	313.69	7.404		
15,600.00	7,806.89	16,401.41	8,067.83	160.09	166.18	-96.45	-8,902.32	2,899.49	2,322.44	2,005.30	317.14	7.323		
15,700.00	7,806.89	16,501.41	8,067.82	161.83	167.85	-96.45	-9,002.32	2,900.10	2,322.45	2,001.85	320.60	7.244		
15,800.00	7,806.88	16,601.41	8,067.82	163.57	169.51	-96.45	-9,102.32	2,900.70	2,322.46	1,998.40	324.06	7.167		
15,900.00	7,806.88	16,701.41	8,067.82	165.32	171.18	-96.45	-9,202.32	2,901.31	2,322.47	1,994.94	327.52	7.091		
16,000.00	7,806.88	16,801.41	8,067.82	167.06	172.85	-96.45	-9,302.32	2,901.92	2,322.48	1,991.49	330.99	7.017		
16,100.00	7,806.88	16,901.41	8,067.82	168.81	174.52	-96.45	-9,402.31	2,902.52	2,322.49	1,988.04	334.45	6.944		
16,200.00	7,806.88	17,001.41	8,067.81	170.56	176.19	-96.45	-9,502.31	2,903.13	2,322.50	1,984.58	337.92	6.873		
16,300.00	7,806.88	17,101.41	8,067.81	172.30	177.87	-96.45	-9,602.31	2,903.73	2,322.51	1,981.12	341.38	6.803		
16,400.00	7,806.87	17,201.41	8,067.81	174.05	179.54	-96.45	-9,702.31	2,904.34	2,322.52	1,977.67	344.85	6.735		
16,500.00	7,806.87	17,298.59	8,067.81	175.80	181.18	-96.45	-9,802.31	2,904.95	2,322.53	1,974.26	348.27	6.669		
16,600.00	7,806.87	17,401.41	8,067.80	177.55	182.90	-96.45	-9,902.30	2,905.55	2,322.54	1,970.75	351.79	6.602		
16,700.00	7,806.87	17,501.41	8,067.80	179.30	184.59	-96.45	-10,002.30	2,906.16	2,322.55	1,967.28	355.26	6.538		
16,800.00	7,806.87	17,598.59	8,067.80	181.04	186.23	-96.45	-10,102.30	2,906.76	2,322.56	1,963.87	358.69	6.475		
16,900.00	7,806.87	17,701.41	8,067.80	182.79	187.96	-96.45	-10,202.30	2,907.37	2,322.57	1,960.36	362.21	6.412		
17,000.00	7,806.87	17,801.41	8,067.79	184.54	189.65	-96.45	-10,302.30	2,907.98	2,322.58	1,956.89	365.69	6.351		
17,100.00	7,806.86	17,901.41	8,067.79	186.30	191.34	-96.45	-10,402.30	2,908.58	2,322.59	1,953.43	369.16	6.292		
17,200.00	7,806.86	18,001.41	8,067.79	188.05	193.03	-96.45	-10,502.29	2,909.19	2,322.60	1,949.96	372.64	6.233		
17,300.00	7,806.86	18,101.41	8,067.79	189.80	194.72	-96.45	-10,602.29	2,909.79	2,322.61	1,946.49	376.12	6.175		
17,400.00	7,806.86	18,201.41	8,067.78	191.55	196.42	-96.45	-10,702.29	2,910.40	2,322.62	1,943.02	379.60	6.119		
17,500.00	7,806.86	18,301.41	8,067.78	193.30	198.11	-96.45	-10,802.29	2,911.01	2,322.63	1,939.55	383.08	6.063		
17,600.00	7,806.86	18,401.41	8,067.78	195.06	199.81	-96.45	-10,902.29	2,911.61	2,322.64	1,936.08	386.56	6.009		
17,700.00	7,806.85	18,501.41	8,067.78	196.81	201.51	-96.45	-11,002.28	2,912.22	2,322.65	1,932.61	390.04	5.955		
17,800.00	7,806.85	18,601.41	8,067.78	198.56	203.21	-96.45	-11,102.28	2,912.82	2,322.66	1,929.14	393.52	5.902		
17,898.35	7,807.00	18,705.44	8,067.85	200.29	204.98	-96.45	-11,209.13	2,913.44	2,322.64	1,925.79	396.85	5.853 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	197.67	0.27	736.241		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.10	197.94	197.94	196.96	0.99	200.793		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.10	197.94	197.94	196.24	1.70	116.249		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.10	197.94	197.94	195.52	2.42	81.805		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-1.10	197.94	197.94	194.80	3.14	63.106 CC, ES		
600.00	600.00	593.78	593.76	1.93	1.89	90.45	-1.57	199.40	199.51	195.68	3.82	52.207		
700.00	700.00	687.35	687.22	2.29	2.22	90.83	-2.95	203.78	204.20	199.70	4.50	45.386		
800.00	800.00	780.53	780.08	2.64	2.55	91.42	-5.24	211.02	212.03	206.85	5.18	40.966		
900.00	900.00	873.11	872.06	3.00	2.89	92.18	-8.42	221.07	222.99	217.14	5.85	38.125		
1,000.00	1,000.00	964.92	962.88	3.36	3.25	93.05	-12.46	233.83	237.08	230.57	6.52	36.379		
1,100.00	1,100.00	1,055.78	1,052.30	3.72	3.63	93.97	-17.31	249.18	254.29	247.11	7.18	35.426		
1,200.00	1,200.00	1,145.51	1,140.07	4.08	4.03	94.91	-22.95	266.98	274.59	266.76	7.83	35.061		
1,300.00	1,300.00	1,233.98	1,225.98	4.44	4.45	95.83	-29.31	287.10	297.93	289.46	8.47	35.184		
1,400.00	1,399.98	1,321.34	1,310.14	4.78	4.89	-54.40	-36.37	309.43	323.29	314.20	9.09	35.583		
1,500.00	1,499.84	1,407.83	1,392.71	5.11	5.37	-53.77	-44.13	333.94	349.58	339.90	9.68	36.116		
1,600.00	1,599.45	1,493.40	1,473.61	5.44	5.88	-53.47	-52.53	360.52	376.74	366.46	10.28	36.662		
1,700.00	1,698.70	1,578.02	1,552.76	5.79	6.43	-53.43	-61.56	389.05	404.72	393.84	10.88	37.200		
1,800.00	1,797.47	1,661.65	1,630.08	6.15	7.01	-53.60	-71.17	419.43	433.51	422.02	11.49	37.715		
1,900.00	1,895.62	1,744.27	1,705.52	6.53	7.63	-53.91	-81.33	451.54	463.12	450.99	12.13	38.190		
1,912.93	1,908.27	1,754.88	1,715.13	6.58	7.71	-53.96	-82.68	455.82	467.01	454.80	12.21	38.255		
2,000.00	1,993.35	1,825.73	1,778.91	6.93	8.28	-54.69	-91.98	485.22	494.29	481.51	12.78	38.682		
2,100.00	2,091.07	1,905.74	1,850.00	7.34	8.97	-55.36	-103.06	520.23	528.13	514.69	13.44	39.294		
2,200.00	2,188.79	1,984.23	1,918.71	7.77	9.69	-55.90	-114.50	556.39	564.55	550.44	14.11	40.013		
2,300.00	2,286.51	2,061.12	1,984.99	8.20	10.44	-56.31	-126.25	593.55	603.44	588.66	14.78	40.831		
2,400.00	2,384.23	2,136.35	2,048.81	8.65	11.21	-56.62	-138.27	631.53	644.70	629.26	15.44	41.742		
2,500.00	2,481.95	2,220.34	2,119.10	9.10	12.11	-56.88	-152.14	675.38	687.81	671.57	16.25	42.330		
2,600.00	2,579.67	2,310.45	2,194.41	9.56	13.10	-57.13	-167.05	722.53	731.10	713.95	17.15	42.627		
2,700.00	2,677.39	2,400.55	2,269.73	10.02	14.11	-57.35	-181.97	769.68	774.40	756.34	18.07	42.864		
2,800.00	2,775.11	2,490.65	2,345.04	10.49	15.12	-57.54	-196.89	816.84	817.71	798.72	18.99	43.053		
2,900.00	2,872.83	2,580.76	2,420.36	10.96	16.14	-57.72	-211.80	863.99	861.02	841.09	19.93	43.204		
3,000.00	2,970.55	2,670.86	2,495.67	11.44	17.17	-57.88	-226.72	911.15	904.34	883.47	20.87	43.324		
3,100.00	3,068.27	2,760.96	2,570.99	11.92	18.20	-58.02	-241.64	958.30	947.67	925.84	21.83	43.419		
3,200.00	3,165.99	2,851.06	2,646.31	12.40	19.24	-58.15	-256.55	1,005.46	991.00	968.21	22.78	43.495		
3,300.00	3,263.71	2,941.17	2,721.62	12.88	20.28	-58.27	-271.47	1,052.61	1,034.33	1,010.58	23.75	43.554		
3,400.00	3,361.43	3,031.27	2,796.94	13.37	21.33	-58.39	-286.39	1,099.77	1,077.67	1,052.95	24.72	43.599		
3,500.00	3,459.15	3,121.37	2,872.25	13.86	22.38	-58.49	-301.30	1,146.92	1,121.01	1,095.32	25.69	43.633		
3,600.00	3,556.87	3,211.47	2,947.57	14.35	23.43	-58.58	-316.22	1,194.07	1,164.35	1,137.68	26.67	43.658		
3,700.00	3,654.59	3,301.58	3,022.88	14.84	24.48	-58.67	-331.14	1,241.23	1,207.70	1,180.04	27.65	43.676		
3,800.00	3,752.31	3,408.32	3,098.20	15.34	25.73	-58.75	-346.05	1,288.38	1,251.04	1,222.31	28.74	43.534		
3,900.00	3,850.03	3,481.78	3,173.52	15.83	26.60	-58.83	-360.97	1,335.54	1,294.39	1,264.77	29.62	43.694		
4,000.00	3,947.75	3,571.89	3,248.83	16.33	27.66	-58.90	-375.89	1,382.69	1,337.74	1,307.13	30.62	43.695		
4,100.00	4,045.47	3,661.99	3,324.15	16.83	28.72	-58.97	-390.80	1,429.85	1,381.10	1,349.49	31.61	43.694		
4,200.00	4,143.19	3,752.09	3,399.46	17.32	29.78	-59.03	-405.72	1,477.00	1,424.45	1,391.85	32.60	43.689		
4,300.00	4,240.91	3,842.19	3,474.78	17.82	30.84	-59.09	-420.64	1,524.16	1,467.80	1,434.20	33.60	43.682		
4,400.00	4,338.63	3,932.30	3,550.09	18.32	31.90	-59.15	-435.55	1,571.31	1,511.16	1,476.56	34.60	43.673		
4,500.00	4,436.35	4,022.40	3,625.41	18.82	32.97	-59.20	-450.47	1,618.46	1,554.52	1,518.92	35.60	43.662		
4,600.00	4,534.07	4,112.50	3,700.73	19.33	34.03	-59.25	-465.39	1,665.62	1,597.88	1,561.27	36.61	43.650		
4,700.00	4,631.79	4,202.60	3,776.04	19.83	35.10	-59.30	-480.30	1,712.77	1,641.24	1,603.63	37.61	43.637		
4,800.00	4,729.51	4,307.29	3,851.36	20.33	36.33	-59.34	-495.22	1,759.93	1,684.60	1,645.89	38.71	43.521		
4,900.00	4,827.23	4,382.81	3,926.67	20.83	37.23	-59.38	-510.14	1,807.08	1,727.96	1,688.33	39.63	43.608		
5,000.00	4,924.95	4,472.91	4,001.99	21.34	38.30	-59.42	-525.05	1,854.24	1,771.32	1,730.69	40.63	43.592		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,563.02	4,077.30	21.84	39.36	-59.46	-539.97	1,901.39	1,814.68	1,773.04	41.64	43.576		
5,200.00	5,120.39	4,653.12	4,152.62	22.35	40.43	-59.50	-554.89	1,948.55	1,858.05	1,815.39	42.66	43.560		
5,300.00	5,218.11	4,743.22	4,227.94	22.85	41.50	-59.54	-569.80	1,995.70	1,901.41	1,857.74	43.67	43.543		
5,400.00	5,315.83	4,833.32	4,303.25	23.36	42.57	-59.57	-584.72	2,042.85	1,944.77	1,900.09	44.68	43.526		
5,500.00	5,413.55	4,923.43	4,378.57	23.86	43.64	-59.60	-599.64	2,090.01	1,988.14	1,942.44	45.70	43.509		
5,600.00	5,511.27	5,013.53	4,453.88	24.37	44.71	-59.63	-614.55	2,137.16	2,031.50	1,984.79	46.71	43.492		
5,700.00	5,608.99	5,103.63	4,529.20	24.88	45.78	-59.66	-629.47	2,184.32	2,074.87	2,027.14	47.73	43.474		
5,800.00	5,706.71	5,206.27	4,604.51	25.38	47.00	-59.69	-644.39	2,231.47	2,118.24	2,069.41	48.82	43.387		
5,900.00	5,804.43	5,283.84	4,679.83	25.89	47.92	-59.72	-659.31	2,278.63	2,161.60	2,111.84	49.76	43.440		
6,000.00	5,902.15	5,373.94	4,755.15	26.40	48.99	-59.74	-674.22	2,325.78	2,204.97	2,154.19	50.78	43.423		
6,100.00	5,999.87	5,464.04	4,830.46	26.91	50.06	-59.77	-689.14	2,372.94	2,248.34	2,196.54	51.80	43.405		
6,200.00	6,097.59	5,554.15	4,905.78	27.42	51.13	-59.79	-704.06	2,420.09	2,291.71	2,238.89	52.82	43.388		
6,300.00	6,195.30	5,644.25	4,981.09	27.92	52.20	-59.81	-718.97	2,467.24	2,335.07	2,281.23	53.84	43.372		
6,400.00	6,293.02	5,734.35	5,056.41	28.43	53.28	-59.84	-733.89	2,514.40	2,378.44	2,323.58	54.86	43.355		
6,500.00	6,390.74	5,824.45	5,131.72	28.94	54.35	-59.86	-748.81	2,561.55	2,421.81	2,365.93	55.88	43.338		
6,600.00	6,488.46	5,914.56	5,207.04	29.45	55.42	-59.88	-763.72	2,608.71	2,465.18	2,408.27	56.90	43.322		
6,638.14	6,525.73	5,948.92	5,235.76	29.64	55.83	-59.89	-769.41	2,626.69	2,481.72	2,424.43	57.29	43.315		
6,700.00	6,586.32	6,004.51	5,282.23	29.95	56.49	-60.41	-778.62	2,655.79	2,508.85	2,450.93	57.91	43.320		
6,800.00	6,684.79	6,106.28	5,356.80	30.42	57.70	-61.23	-793.38	2,702.47	2,553.95	2,495.01	58.94	43.331		
6,900.00	6,783.81	6,182.02	5,430.61	30.85	58.60	-62.01	-808.00	2,748.68	2,600.55	2,540.81	59.74	43.532		
7,000.00	6,883.25	6,269.31	5,503.57	31.24	59.64	-62.78	-822.45	2,794.36	2,648.61	2,588.06	60.55	43.745		
7,100.00	6,983.00	6,498.86	5,697.84	31.60	62.28	-63.05	-859.31	2,910.88	2,697.66	2,634.86	62.79	42.962		
7,200.00	7,082.93	7,454.13	6,588.28	31.92	69.28	-61.87	-959.91	3,228.88	2,729.91	2,661.36	68.55	39.824		
7,251.07	7,134.00	8,003.21	7,134.00	32.06	70.74	89.60	-975.73	3,278.90	2,734.36	2,665.71	68.65	39.832		
7,300.00	7,182.93	8,052.14	7,182.93	32.19	70.81	89.60	-975.73	3,278.90	2,734.36	2,665.48	68.88	39.699		
7,351.07	7,234.00	8,103.21	7,234.00	32.32	70.87	89.60	-975.73	3,278.90	2,734.36	2,665.24	69.12	39.560		
7,400.00	7,282.87	8,153.44	7,284.16	32.47	70.94	-90.05	-977.93	3,278.90	2,734.35	2,664.96	69.39	39.407		
7,450.00	7,332.44	8,204.75	7,335.01	32.67	71.03	-90.05	-984.70	3,278.91	2,734.32	2,664.59	69.73	39.210		
7,500.00	7,381.26	8,256.05	7,385.03	32.90	71.13	-90.05	-995.99	3,278.93	2,734.27	2,664.12	70.15	38.975		
7,550.00	7,428.96	8,307.31	7,433.81	33.18	71.25	-90.05	-1,011.70	3,278.95	2,734.20	2,663.56	70.64	38.707		
7,600.00	7,475.17	8,358.53	7,480.95	33.48	71.38	-90.05	-1,031.68	3,278.98	2,734.12	2,662.93	71.19	38.407		
7,650.00	7,519.55	8,409.69	7,526.08	33.82	71.53	-90.05	-1,055.76	3,279.01	2,734.01	2,662.21	71.80	38.078		
7,700.00	7,561.76	8,460.80	7,568.83	34.20	71.69	-90.04	-1,083.73	3,279.06	2,733.89	2,661.41	72.48	37.720		
7,750.00	7,601.47	8,511.84	7,608.86	34.60	71.86	-90.04	-1,115.36	3,279.10	2,733.75	2,660.53	73.22	37.338		
7,800.00	7,638.39	8,562.79	7,645.87	35.04	72.05	-90.04	-1,150.36	3,279.15	2,733.59	2,659.58	74.01	36.933		
7,850.00	7,672.23	8,613.66	7,679.57	35.50	72.25	-90.03	-1,188.45	3,279.21	2,733.42	2,658.55	74.87	36.509		
7,900.00	7,702.74	8,664.44	7,709.70	35.99	72.47	-90.03	-1,229.30	3,279.27	2,733.24	2,657.46	75.78	36.069		
7,950.00	7,729.67	8,715.12	7,736.06	36.50	72.69	-90.02	-1,272.57	3,279.33	2,733.05	2,656.31	76.74	35.615		
8,000.00	7,752.84	8,765.70	7,758.45	37.04	72.93	-90.02	-1,317.90	3,279.40	2,732.85	2,655.11	77.74	35.152		
8,050.00	7,772.06	8,816.18	7,776.72	37.60	73.17	-90.01	-1,364.93	3,279.47	2,732.64	2,653.85	78.79	34.683		
8,100.00	7,787.18	8,866.54	7,790.76	38.17	73.42	-90.01	-1,413.28	3,279.54	2,732.42	2,652.56	79.87	34.212		
8,150.00	7,798.10	8,916.79	7,800.49	38.76	73.69	-90.01	-1,462.57	3,279.61	2,732.20	2,651.23	80.97	33.743		
8,200.00	7,804.72	8,966.93	7,805.85	39.36	73.95	-90.00	-1,512.40	3,279.69	2,731.98	2,649.89	82.09	33.279		
8,251.15	7,807.00	9,018.10	7,807.00	39.97	74.24	-90.00	-1,563.55	3,279.76	2,731.75	2,648.50	83.26	32.812		
8,300.00	7,807.00	9,066.96	7,807.00	40.56	74.51	-90.00	-1,612.41	3,279.83	2,731.53	2,647.16	84.38	32.374		
8,400.00	7,807.00	9,166.96	7,807.00	41.80	75.09	-90.00	-1,712.41	3,279.98	2,731.08	2,644.36	86.73	31.491		
8,500.00	7,807.00	9,266.96	7,807.00	43.08	75.71	-90.00	-1,812.41	3,280.13	2,730.63	2,641.48	89.16	30.627		
8,600.00	7,806.99	9,366.96	7,807.00	44.40	76.35	-90.00	-1,912.41	3,280.28	2,730.19	2,638.53	91.66	29.786		
8,700.00	7,806.99	9,466.96	7,807.00	45.74	77.02	-90.00	-2,012.42	3,280.42	2,729.74	2,635.51	94.23	28.969		
8,800.00	7,806.99	9,566.97	7,807.00	47.11	77.73	-90.00	-2,112.42	3,280.57	2,729.29	2,632.43	96.86	28.178		
8,900.00	7,806.99	9,666.97	7,807.00	48.51	78.46	-90.00	-2,212.42	3,280.72	2,728.84	2,629.30	99.54	27.413		
9,000.00	7,806.99	9,766.97	7,807.00	49.93	79.22	-90.00	-2,312.42	3,280.86	2,728.39	2,626.11	102.28	26.675		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	9,866.97	7,807.00	51.38	80.00	-90.00	-2,412.42	3,281.01	2,727.94	2,622.87	105.07	25.964		
9,200.00	7,806.99	9,966.98	7,807.00	52.84	80.82	-90.00	-2,512.43	3,281.16	2,727.49	2,619.59	107.90	25.279		
9,300.00	7,806.98	10,066.98	7,807.00	54.32	81.67	-90.00	-2,612.43	3,281.30	2,727.04	2,616.27	110.77	24.619		
9,400.00	7,806.98	10,166.98	7,807.00	55.82	82.54	-90.00	-2,712.43	3,281.45	2,726.59	2,612.92	113.68	23.986		
9,500.00	7,806.98	10,266.98	7,807.00	57.34	83.44	-90.00	-2,812.43	3,281.59	2,726.14	2,609.52	116.62	23.376		
9,600.00	7,806.98	10,366.99	7,807.00	58.87	84.36	-90.00	-2,912.44	3,281.74	2,725.69	2,606.10	119.59	22.791		
9,700.00	7,806.98	10,466.99	7,807.00	60.41	85.32	-90.00	-3,012.44	3,281.89	2,725.24	2,602.64	122.60	22.229		
9,800.00	7,806.98	10,566.99	7,807.00	61.96	86.30	-90.00	-3,112.44	3,282.03	2,724.79	2,599.16	125.63	21.688		
9,900.00	7,806.97	10,666.99	7,807.00	63.53	87.30	-90.00	-3,212.44	3,282.18	2,724.34	2,595.65	128.69	21.169		
10,000.00	7,806.97	10,766.99	7,807.00	65.10	88.33	-90.00	-3,312.44	3,282.32	2,723.89	2,592.11	131.78	20.670		
10,100.00	7,806.97	10,867.00	7,807.01	66.69	89.38	-90.00	-3,412.45	3,282.47	2,723.44	2,588.56	134.88	20.191		
10,200.00	7,806.97	10,967.00	7,807.01	68.29	90.46	-90.00	-3,512.45	3,282.61	2,722.99	2,584.98	138.01	19.730		
10,300.00	7,806.97	11,067.00	7,807.01	69.89	91.56	-90.00	-3,612.45	3,282.76	2,722.54	2,581.38	141.16	19.287		
10,400.00	7,806.97	11,167.00	7,807.01	71.50	92.68	-90.00	-3,712.45	3,282.90	2,722.09	2,577.76	144.32	18.861		
10,500.00	7,806.97	11,267.01	7,807.01	73.12	93.83	-90.00	-3,812.45	3,283.05	2,721.64	2,574.13	147.51	18.451		
10,600.00	7,806.96	11,367.01	7,807.01	74.75	94.99	-90.00	-3,912.46	3,283.19	2,721.18	2,570.48	150.70	18.057		
10,700.00	7,806.96	11,467.01	7,807.01	76.38	96.18	-90.00	-4,012.46	3,283.34	2,720.73	2,566.82	153.92	17.677		
10,800.00	7,806.96	11,567.01	7,807.01	78.02	97.38	-90.00	-4,112.46	3,283.48	2,720.28	2,563.14	157.14	17.311		
10,900.00	7,806.96	11,667.01	7,807.01	79.66	98.60	-90.00	-4,212.46	3,283.62	2,719.83	2,559.44	160.39	16.958		
11,000.00	7,806.96	11,767.02	7,807.01	81.31	99.84	-90.00	-4,312.47	3,283.77	2,719.38	2,555.74	163.64	16.618		
11,100.00	7,806.96	11,867.02	7,807.01	82.97	101.10	-90.00	-4,412.47	3,283.91	2,718.93	2,552.02	166.90	16.290		
11,200.00	7,806.95	11,967.02	7,807.01	84.63	102.38	-90.00	-4,512.47	3,284.06	2,718.47	2,548.29	170.18	15.974		
11,300.00	7,806.95	12,067.02	7,807.01	86.29	103.67	-90.00	-4,612.47	3,284.20	2,718.02	2,544.55	173.47	15.669		
11,400.00	7,806.95	12,167.03	7,807.01	87.96	104.98	-90.00	-4,712.47	3,284.34	2,717.57	2,540.81	176.76	15.374		
11,500.00	7,806.95	12,267.03	7,807.01	89.64	106.30	-90.00	-4,812.48	3,284.49	2,717.12	2,537.05	180.07	15.089		
11,600.00	7,806.95	12,367.03	7,807.01	91.31	107.64	-90.00	-4,912.48	3,284.63	2,716.67	2,533.28	183.39	14.814		
11,700.00	7,806.95	12,467.03	7,807.01	92.99	108.99	-90.00	-5,012.48	3,284.77	2,716.21	2,529.50	186.71	14.548		
11,800.00	7,806.95	12,567.03	7,807.01	94.68	110.35	-90.00	-5,112.48	3,284.92	2,715.76	2,525.72	190.04	14.290		
11,900.00	7,806.94	12,667.04	7,807.01	96.36	111.73	-90.00	-5,212.48	3,285.06	2,715.31	2,521.93	193.38	14.041		
12,000.00	7,806.94	12,767.04	7,807.01	98.05	113.12	-90.00	-5,312.49	3,285.20	2,714.85	2,518.13	196.73	13.800		
12,100.00	7,806.94	12,867.04	7,807.01	99.74	114.52	-90.00	-5,412.49	3,285.35	2,714.40	2,514.32	200.08	13.567		
12,200.00	7,806.94	12,967.04	7,807.01	101.44	115.94	-90.00	-5,512.49	3,285.49	2,713.95	2,510.51	203.44	13.340		
12,300.00	7,806.94	13,067.05	7,807.01	103.14	117.36	-90.00	-5,612.49	3,285.63	2,713.50	2,506.69	206.80	13.121		
12,400.00	7,806.94	13,167.05	7,807.01	104.84	118.80	-90.00	-5,712.50	3,285.77	2,713.04	2,502.87	210.18	12.908		
12,500.00	7,806.93	13,267.05	7,807.01	106.54	120.24	-90.00	-5,812.50	3,285.92	2,712.59	2,499.04	213.55	12.702		
12,600.00	7,806.93	13,367.05	7,807.01	108.25	121.70	-90.00	-5,912.50	3,286.06	2,712.13	2,495.20	216.93	12.502		
12,700.00	7,806.93	13,467.05	7,807.01	109.95	123.16	-90.00	-6,012.50	3,286.20	2,711.68	2,491.36	220.32	12.308		
12,800.00	7,806.93	13,567.06	7,807.01	111.66	124.64	-90.00	-6,112.50	3,286.34	2,711.23	2,487.51	223.71	12.119		
12,900.00	7,806.93	13,667.06	7,807.01	113.37	126.12	-90.00	-6,212.51	3,286.48	2,710.77	2,483.66	227.11	11.936		
13,000.00	7,806.93	13,767.06	7,807.01	115.09	127.61	-90.00	-6,312.51	3,286.63	2,710.32	2,479.81	230.51	11.758		
13,100.00	7,806.93	13,867.06	7,807.01	116.80	129.11	-90.00	-6,412.51	3,286.77	2,709.87	2,475.95	233.92	11.585		
13,200.00	7,806.92	13,967.07	7,807.01	118.52	130.61	-90.00	-6,512.51	3,286.91	2,709.41	2,472.08	237.33	11.416		
13,300.00	7,806.92	14,067.07	7,807.01	120.24	132.13	-90.00	-6,612.51	3,287.05	2,708.96	2,468.21	240.74	11.253		
13,400.00	7,806.92	14,167.07	7,807.01	121.96	133.65	-90.00	-6,712.52	3,287.19	2,708.50	2,464.34	244.16	11.093		
13,500.00	7,806.92	14,267.07	7,807.01	123.68	135.18	-90.00	-6,812.52	3,287.33	2,708.05	2,460.47	247.58	10.938		
13,600.00	7,806.92	14,367.07	7,807.01	125.40	136.71	-90.00	-6,912.52	3,287.47	2,707.59	2,456.59	251.00	10.787		
13,700.00	7,806.92	14,467.08	7,807.01	127.12	138.25	-90.00	-7,012.52	3,287.61	2,707.14	2,452.71	254.43	10.640		
13,800.00	7,806.91	14,567.08	7,807.01	128.85	139.80	-90.00	-7,112.53	3,287.76	2,706.68	2,448.82	257.86	10.497		
13,900.00	7,806.91	14,667.08	7,807.01	130.58	141.35	-90.00	-7,212.53	3,287.90	2,706.23	2,444.93	261.30	10.357		
14,000.00	7,806.91	14,767.08	7,807.01	132.30	142.91	-90.00	-7,312.53	3,288.04	2,705.77	2,441.04	264.73	10.221		
14,100.00	7,806.91	14,867.09	7,807.01	134.03	144.48	-90.00	-7,412.53	3,288.18	2,705.32	2,437.14	268.17	10.088		
14,200.00	7,806.91	14,967.09	7,807.01	135.76	146.05	-90.00	-7,512.53	3,288.32	2,704.86	2,433.25	271.61	9.958		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
14,300.00	7,806.91	15,067.09	7,807.01	137.50	147.62	-90.00	-7,612.54	3,288.46	2,704.41	2,429.35	275.06	9.832		
14,400.00	7,806.91	15,167.09	7,807.01	139.23	149.20	-90.00	-7,712.54	3,288.60	2,703.95	2,425.44	278.51	9.709		
14,500.00	7,806.90	15,267.09	7,807.01	140.96	150.79	-90.00	-7,812.54	3,288.74	2,703.49	2,421.54	281.96	9.588		
14,600.00	7,806.90	15,367.10	7,807.01	142.70	152.37	-90.00	-7,912.54	3,288.88	2,703.04	2,417.63	285.41	9.471		
14,700.00	7,806.90	15,467.10	7,807.01	144.43	153.97	-90.00	-8,012.54	3,289.02	2,702.58	2,413.72	288.86	9.356		
14,800.00	7,806.90	15,567.10	7,807.01	146.17	155.57	-90.00	-8,112.55	3,289.16	2,702.12	2,409.81	292.32	9.244		
14,900.00	7,806.90	15,667.10	7,807.01	147.91	157.17	-90.00	-8,212.55	3,289.30	2,701.67	2,405.89	295.78	9.134		
15,000.00	7,806.90	15,767.11	7,807.01	149.64	158.77	-90.00	-8,312.55	3,289.44	2,701.21	2,401.97	299.24	9.027		
15,100.00	7,806.89	15,867.11	7,807.01	151.38	160.38	-90.00	-8,412.55	3,289.57	2,700.76	2,398.06	302.70	8.922		
15,200.00	7,806.89	15,967.11	7,807.01	153.12	162.00	-90.00	-8,512.55	3,289.71	2,700.30	2,394.13	306.16	8.820		
15,300.00	7,806.89	16,067.11	7,807.01	154.86	163.61	-90.00	-8,612.56	3,289.85	2,699.84	2,390.21	309.63	8.720		
15,400.00	7,806.89	16,167.11	7,807.01	156.60	165.24	-90.00	-8,712.56	3,289.99	2,699.38	2,386.29	313.10	8.622		
15,500.00	7,806.89	16,267.12	7,807.01	158.35	166.86	-90.00	-8,812.56	3,290.13	2,698.93	2,382.36	316.57	8.526		
15,600.00	7,806.89	16,367.12	7,807.01	160.09	168.49	-90.00	-8,912.56	3,290.27	2,698.47	2,378.43	320.04	8.432		
15,700.00	7,806.89	16,467.12	7,807.01	161.83	170.12	-90.00	-9,012.57	3,290.41	2,698.01	2,374.50	323.51	8.340		
15,800.00	7,806.88	16,567.12	7,807.01	163.57	171.75	-90.00	-9,112.57	3,290.55	2,697.56	2,370.57	326.99	8.250		
15,900.00	7,806.88	16,667.13	7,807.01	165.32	173.39	-90.00	-9,212.57	3,290.68	2,697.10	2,366.64	330.46	8.162		
16,000.00	7,806.88	16,767.13	7,807.01	167.06	175.03	-90.00	-9,312.57	3,290.82	2,696.64	2,362.70	333.94	8.075		
16,100.00	7,806.88	16,867.13	7,807.00	168.81	176.67	-90.00	-9,412.57	3,290.96	2,696.18	2,358.77	337.42	7.991		
16,200.00	7,806.88	16,967.13	7,807.00	170.56	178.31	-90.00	-9,512.58	3,291.10	2,695.72	2,354.83	340.90	7.908		
16,300.00	7,806.88	17,067.13	7,807.00	172.30	179.96	-90.00	-9,612.58	3,291.24	2,695.27	2,350.89	344.38	7.826		
16,400.00	7,806.87	17,167.14	7,807.00	174.05	181.61	-90.00	-9,712.58	3,291.37	2,694.81	2,346.95	347.86	7.747		
16,500.00	7,806.87	17,267.14	7,807.00	175.80	183.27	-90.00	-9,812.58	3,291.51	2,694.35	2,343.01	351.35	7.669		
16,600.00	7,806.87	17,367.14	7,807.00	177.55	184.92	-90.00	-9,912.58	3,291.65	2,693.89	2,339.06	354.83	7.592		
16,700.00	7,806.87	17,467.14	7,807.00	179.30	186.58	-90.00	-10,012.59	3,291.79	2,693.43	2,335.12	358.32	7.517		
16,800.00	7,806.87	17,567.15	7,807.00	181.04	188.24	-90.00	-10,112.59	3,291.92	2,692.97	2,331.17	361.80	7.443		
16,900.00	7,806.87	17,667.15	7,807.00	182.79	189.90	-90.00	-10,212.59	3,292.06	2,692.52	2,327.22	365.29	7.371		
17,000.00	7,806.87	17,767.15	7,807.00	184.54	191.56	-90.00	-10,312.59	3,292.20	2,692.06	2,323.28	368.78	7.300		
17,100.00	7,806.86	17,867.15	7,807.00	186.30	193.23	-90.00	-10,412.59	3,292.33	2,691.60	2,319.33	372.27	7.230		
17,200.00	7,806.86	17,967.15	7,807.00	188.05	194.90	-90.00	-10,512.60	3,292.47	2,691.14	2,315.38	375.76	7.162		
17,300.00	7,806.86	18,067.16	7,807.00	189.80	196.57	-90.00	-10,612.60	3,292.61	2,690.68	2,311.42	379.26	7.095		
17,400.00	7,806.86	18,167.16	7,807.00	191.55	198.24	-90.00	-10,712.60	3,292.74	2,690.22	2,307.47	382.75	7.029		
17,500.00	7,806.86	18,267.16	7,807.00	193.30	199.91	-90.00	-10,812.60	3,292.88	2,689.76	2,303.52	386.24	6.964		
17,600.00	7,806.86	18,367.16	7,807.00	195.06	201.59	-90.00	-10,912.61	3,293.02	2,689.30	2,299.56	389.74	6.900		
17,700.00	7,806.85	18,467.16	7,807.00	196.81	203.27	-90.00	-11,012.61	3,293.15	2,688.84	2,295.61	393.24	6.838		
17,800.00	7,806.85	18,567.17	7,807.00	198.56	204.95	-90.00	-11,112.61	3,293.29	2,688.38	2,291.65	396.73	6.776		
17,898.35	7,807.00	18,665.52	7,807.00	200.29	206.58	-90.00	-11,210.96	3,293.42	2,687.92	2,287.90	400.02	6.719 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-1.20	215.93	215.94					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.20	215.93	215.94	215.67	0.27	803.175		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.20	215.93	215.94	214.95	0.99	219.048		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.20	215.93	215.94	214.23	1.70	126.817		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-1.20	215.93	215.94	213.52	2.42	89.242 CC, ES		
500.00	500.00	493.20	493.19	1.57	1.54	90.43	-1.62	217.39	217.50	214.40	3.10	70.076		
600.00	600.00	586.21	586.07	1.93	1.86	90.74	-2.87	221.75	222.20	218.42	3.78	58.739		
700.00	700.00	678.82	678.38	2.29	2.19	91.24	-4.94	228.96	230.04	225.58	4.46	51.560		
800.00	800.00	770.85	769.82	2.64	2.54	91.87	-7.81	238.97	241.00	235.86	5.14	46.908		
900.00	900.00	862.12	860.12	3.00	2.90	92.61	-11.46	251.68	255.08	249.27	5.81	43.908		
1,000.00	1,000.00	952.45	949.04	3.36	3.28	93.40	-15.85	266.98	272.26	265.78	6.47	42.049		
1,100.00	1,100.00	1,041.69	1,036.34	3.72	3.68	94.21	-20.94	284.72	292.50	285.37	7.13	41.010		
1,200.00	1,200.00	1,129.68	1,121.81	4.08	4.10	95.01	-26.70	304.77	315.77	307.99	7.78	40.585		
1,300.00	1,300.00	1,216.28	1,205.28	4.44	4.55	95.77	-33.07	326.96	342.01	333.59	8.42	40.639		
1,400.00	1,399.98	1,301.69	1,286.88	4.78	5.03	-54.52	-40.02	351.21	370.18	361.15	9.03	41.015		
1,500.00	1,499.84	1,386.17	1,366.81	5.11	5.54	-53.90	-47.57	377.48	399.23	389.62	9.62	41.518		
1,600.00	1,599.45	1,469.68	1,445.00	5.44	6.09	-53.57	-55.65	405.67	429.09	418.88	10.21	42.031		
1,700.00	1,698.70	1,552.19	1,521.38	5.79	6.67	-53.48	-64.26	435.66	459.72	448.91	10.81	42.534		
1,800.00	1,797.47	1,633.66	1,595.88	6.15	7.28	-53.57	-73.35	467.33	491.09	479.67	11.42	43.009		
1,900.00	1,895.62	1,714.07	1,668.47	6.53	7.93	-53.79	-82.89	500.58	523.22	511.18	12.05	43.438		
1,912.93	1,908.27	1,724.39	1,677.72	6.58	8.02	-53.83	-84.16	504.99	527.43	515.31	12.13	43.496		
2,000.00	1,993.35	1,793.27	1,738.99	6.93	8.61	-54.52	-92.84	535.22	556.84	544.15	12.69	43.875		
2,100.00	2,091.07	1,870.98	1,807.19	7.34	9.33	-55.17	-103.11	571.03	593.05	579.70	13.35	44.424		
2,200.00	2,188.79	1,947.12	1,873.01	7.77	10.08	-55.71	-113.67	607.82	631.76	617.75	14.01	45.090		
2,300.00	2,286.51	2,021.65	1,936.42	8.20	10.84	-56.14	-124.47	645.45	672.87	658.20	14.67	45.860		
2,400.00	2,384.23	2,094.50	1,997.41	8.65	11.63	-56.47	-135.46	683.75	716.27	700.94	15.33	46.722		
2,500.00	2,481.95	2,165.66	2,055.98	9.10	12.45	-56.73	-146.61	722.59	761.88	745.89	15.99	47.656		
2,600.00	2,579.67	2,245.80	2,120.98	9.56	13.40	-56.96	-159.54	767.65	809.26	792.49	16.78	48.237		
2,700.00	2,677.39	2,333.71	2,192.17	10.02	14.46	-57.19	-173.77	817.22	856.85	839.17	17.68	48.452		
2,800.00	2,775.11	2,421.61	2,263.36	10.49	15.54	-57.39	-187.99	866.78	904.45	885.85	18.60	48.617		
2,900.00	2,872.83	2,509.51	2,334.55	10.96	16.62	-57.56	-202.22	916.35	952.06	932.52	19.53	48.743		
3,000.00	2,970.55	2,597.42	2,405.74	11.44	17.71	-57.73	-216.44	965.91	999.67	979.20	20.47	48.835		
3,100.00	3,068.27	2,685.32	2,476.93	11.92	18.81	-57.87	-230.67	1,015.47	1,047.29	1,025.87	21.42	48.902		
3,200.00	3,165.99	2,773.23	2,548.12	12.40	19.91	-58.01	-244.89	1,065.04	1,094.91	1,072.54	22.37	48.949		
3,300.00	3,263.71	2,861.13	2,619.31	12.88	21.01	-58.13	-259.11	1,114.60	1,142.54	1,119.21	23.33	48.980		
3,400.00	3,361.43	2,949.04	2,690.51	13.37	22.12	-58.25	-273.34	1,164.17	1,190.17	1,165.88	24.29	48.998		
3,500.00	3,459.15	3,036.94	2,761.70	13.86	23.24	-58.35	-287.56	1,213.73	1,237.80	1,212.55	25.26	49.006		
3,600.00	3,556.87	3,124.84	2,832.89	14.35	24.35	-58.45	-301.79	1,263.30	1,285.44	1,259.21	26.23	49.006		
3,700.00	3,654.59	3,212.75	2,904.08	14.84	25.47	-58.54	-316.01	1,312.86	1,333.08	1,305.87	27.21	48.998		
3,800.00	3,752.31	3,300.65	2,975.27	15.34	26.59	-58.62	-330.24	1,362.42	1,380.72	1,352.54	28.19	48.986		
3,900.00	3,850.03	3,388.56	3,046.46	15.83	27.71	-58.70	-344.46	1,411.99	1,428.37	1,399.20	29.17	48.969		
4,000.00	3,947.75	3,476.46	3,117.65	16.33	28.83	-58.77	-358.69	1,461.55	1,476.02	1,445.86	30.15	48.949		
4,100.00	4,045.47	3,564.36	3,188.84	16.83	29.96	-58.84	-372.91	1,511.12	1,523.66	1,492.52	31.14	48.925		
4,200.00	4,143.19	3,652.27	3,260.03	17.32	31.08	-58.91	-387.14	1,560.68	1,571.31	1,539.18	32.13	48.900		
4,300.00	4,240.91	3,740.17	3,331.23	17.82	32.21	-58.97	-401.36	1,610.25	1,618.96	1,585.84	33.13	48.873		
4,400.00	4,338.63	3,828.08	3,402.42	18.32	33.34	-59.02	-415.59	1,659.81	1,666.62	1,632.50	34.12	48.845		
4,500.00	4,436.35	3,915.98	3,473.61	18.82	34.46	-59.08	-429.81	1,709.37	1,714.27	1,679.15	35.12	48.816		
4,600.00	4,534.07	4,003.89	3,544.80	19.33	35.59	-59.13	-444.03	1,758.94	1,761.93	1,725.81	36.12	48.786		
4,700.00	4,631.79	4,108.21	3,615.99	19.83	36.93	-59.18	-458.26	1,808.50	1,809.58	1,772.36	37.22	48.618		
4,800.00	4,729.51	4,179.69	3,687.18	20.33	37.85	-59.22	-472.48	1,858.07	1,857.24	1,819.12	38.12	48.725		
4,900.00	4,827.23	4,267.60	3,758.37	20.83	38.99	-59.27	-486.71	1,907.63	1,904.90	1,865.78	39.12	48.694		
5,000.00	4,924.95	4,355.50	3,829.56	21.34	40.12	-59.31	-500.93	1,957.20	1,952.56	1,912.43	40.12	48.663		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,443.41	3,900.76	21.84	41.25	-59.35	-515.16	2,006.76	2,000.22	1,959.09	41.13	48.632		
5,200.00	5,120.39	4,531.31	3,971.95	22.35	42.38	-59.39	-529.38	2,056.32	2,047.88	2,005.74	42.14	48.601		
5,300.00	5,218.11	4,619.21	4,043.14	22.85	43.51	-59.42	-543.61	2,105.89	2,095.54	2,052.39	43.14	48.571		
5,400.00	5,315.83	4,707.12	4,114.33	23.36	44.65	-59.46	-557.83	2,155.45	2,143.20	2,099.04	44.15	48.541		
5,500.00	5,413.55	4,804.98	4,185.52	23.86	45.91	-59.49	-572.06	2,205.02	2,190.86	2,145.63	45.23	48.442		
5,600.00	5,511.27	4,882.93	4,256.71	24.37	46.92	-59.52	-586.28	2,254.58	2,238.52	2,192.35	46.17	48.481		
5,700.00	5,608.99	4,970.83	4,327.90	24.88	48.05	-59.55	-600.51	2,304.15	2,286.18	2,239.00	47.18	48.452		
5,800.00	5,706.71	5,058.74	4,399.09	25.38	49.19	-59.58	-614.73	2,353.71	2,333.85	2,285.65	48.20	48.423		
5,900.00	5,804.43	5,146.64	4,470.29	25.89	50.32	-59.61	-628.95	2,403.27	2,381.51	2,332.30	49.21	48.394		
6,000.00	5,902.15	5,234.54	4,541.48	26.40	51.46	-59.63	-643.18	2,452.84	2,429.18	2,378.95	50.23	48.366		
6,100.00	5,999.87	5,322.45	4,612.67	26.91	52.59	-59.66	-657.40	2,502.40	2,476.84	2,425.60	51.24	48.338		
6,200.00	6,097.59	5,410.35	4,683.86	27.42	53.73	-59.68	-671.63	2,551.97	2,524.51	2,472.25	52.26	48.310		
6,300.00	6,195.30	5,501.74	4,755.05	27.92	54.91	-59.71	-685.85	2,601.53	2,572.17	2,518.88	53.30	48.263		
6,400.00	6,293.02	5,586.16	4,826.24	28.43	56.00	-59.73	-700.08	2,651.10	2,619.84	2,565.55	54.29	48.257		
6,500.00	6,390.74	5,674.06	4,897.43	28.94	57.14	-59.75	-714.30	2,700.66	2,667.50	2,612.20	55.31	48.231		
6,600.00	6,488.46	5,761.97	4,968.62	29.45	58.27	-59.77	-728.53	2,750.22	2,715.17	2,658.84	56.33	48.205		
6,638.14	6,525.73	5,804.51	4,995.78	29.64	58.82	-59.78	-733.95	2,769.13	2,733.35	2,676.58	56.77	48.145		
6,700.00	6,586.32	5,849.71	5,039.69	29.95	59.41	-60.37	-742.73	2,799.70	2,763.13	2,705.80	57.33	48.195		
6,800.00	6,684.79	5,936.64	5,110.09	30.42	60.53	-61.30	-756.79	2,848.71	2,812.49	2,754.21	58.28	48.260		
6,900.00	6,783.81	6,022.59	5,179.70	30.85	61.64	-62.21	-770.70	2,897.18	2,863.30	2,804.14	59.15	48.404		
7,000.00	6,883.25	6,107.46	5,248.43	31.24	62.74	-63.11	-784.43	2,945.03	2,915.52	2,855.56	59.96	48.622		
7,100.00	6,983.00	6,208.86	5,316.20	31.60	64.05	-63.99	-797.97	2,992.21	2,969.12	2,908.30	60.82	48.820		
7,200.00	7,082.93	6,273.53	5,382.92	31.92	64.89	-64.86	-811.31	3,038.66	3,024.06	2,962.68	61.38	49.270		
7,251.07	7,134.00	6,315.07	5,416.57	32.06	65.43	85.99	-818.03	3,062.09	3,052.62	2,990.93	61.69	49.483		
7,300.00	7,182.93	6,364.43	5,465.93	32.19	66.00	86.65	-831.66	3,088.14	3,078.49	2,996.97	62.00	49.696		
7,351.07	7,234.00	6,416.50	5,518.00	32.32	66.74	89.65	-845.66	3,114.34	3,104.68	2,996.73	70.07	43.767		
7,351.07	7,234.00	6,416.50	5,518.00	32.32	66.74	89.65	-845.66	3,114.34	3,104.68	2,996.73	70.07	43.767		
7,400.00	7,282.87	6,468.64	5,570.14	32.47	67.48	-90.01	-859.75	3,140.54	3,130.88	2,996.46	70.34	43.599		
7,450.00	7,332.44	6,518.77	5,622.27	32.67	68.22	-90.01	-873.94	3,166.74	3,157.08	2,996.11	70.69	43.384		
7,500.00	7,381.26	6,568.89	5,674.39	32.90	69.00	-90.01	-888.13	3,192.94	3,183.28	2,995.70	71.11	43.129		
7,550.00	7,428.96	6,618.96	5,726.50	33.18	69.82	-90.01	-902.32	3,218.14	3,208.48	2,995.21	71.59	42.838		
7,600.00	7,475.17	6,669.03	5,778.61	33.48	70.68	-90.01	-916.51	3,243.34	3,233.68	2,994.67	72.14	42.511		
7,650.00	7,519.55	6,719.10	5,830.72	33.82	71.58	-90.01	-930.70	3,268.54	3,258.88	2,994.06	72.75	42.153		
7,700.00	7,561.76	6,769.17	5,882.83	34.20	72.52	-90.01	-944.89	3,293.74	3,284.08	2,993.38	73.43	41.764		
7,750.00	7,601.47	6,819.24	5,934.94	34.60	73.50	-90.01	-959.08	3,318.94	3,309.28	2,992.65	74.17	41.348		
7,800.00	7,638.39	6,869.31	5,987.05	35.04	74.52	-90.01	-973.27	3,344.14	3,334.48	2,991.85	74.97	40.908		
7,850.00	7,672.23	6,919.38	6,039.16	35.50	75.58	-90.01	-987.46	3,369.34	3,359.68	2,991.00	75.82	40.448		
7,900.00	7,702.74	6,969.45	6,091.27	35.99	76.68	-90.01	-1,001.65	3,394.54	3,384.88	2,990.10	76.73	39.970		
7,950.00	7,729.67	7,019.52	6,143.38	36.50	77.82	-90.01	-1,015.84	3,419.74	3,410.08	2,989.15	77.69	39.478		
8,000.00	7,752.84	7,069.59	6,195.49	37.04	79.00	-90.01	-1,030.03	3,444.94	3,435.28	2,988.16	78.69	38.976		
8,050.00	7,772.06	7,119.66	6,247.60	37.60	80.22	-90.00	-1,044.22	3,470.14	3,460.48	2,987.12	79.73	38.468		
8,100.00	7,787.18	7,169.73	6,299.71	38.17	81.48	-90.00	-1,058.41	3,495.34	3,485.68	2,986.06	80.80	37.958		
8,150.00	7,798.10	7,219.80	6,351.82	38.76	82.78	-90.00	-1,072.60	3,520.54	3,510.88	2,984.97	81.89	37.449		
8,200.00	7,804.72	7,269.87	6,403.93	39.36	84.12	-90.00	-1,086.79	3,545.74	3,536.08	2,983.86	83.01	36.947		
8,251.15	7,807.00	7,319.94	6,456.04	39.97	85.50	-90.00	-1,100.98	3,570.94	3,561.28	2,982.72	84.16	36.443		
8,300.00	7,807.00	7,369.01	6,508.15	40.56	86.92	-90.00	-1,115.17	3,596.14	3,586.48	2,981.61	85.27	35.968		
8,400.00	7,807.00	7,419.08	6,560.26	41.80	88.38	-90.00	-1,129.36	3,621.34	3,611.68	2,979.29	87.60	35.008		
8,500.00	7,807.00	7,469.15	6,612.37	43.08	89.88	-90.00	-1,143.55	3,646.54	3,636.88	2,976.89	90.02	34.069		
8,600.00	7,806.99	7,519.22	6,664.48	44.40	91.40	-90.00	-1,157.74	3,671.74	3,662.08	2,974.41	92.51	33.153		
8,700.00	7,806.99	7,569.29	6,716.59	45.74	92.96	-90.00	-1,171.93	3,696.94	3,687.28	2,971.87	95.06	32.262		
8,800.00	7,806.99	7,619.36	6,768.70	47.11	94.56	-90.00	-1,186.12	3,722.14	3,712.48	2,969.27	97.68	31.398		
8,900.00	7,806.99	7,669.43	6,820.81	48.51	96.20	-90.00	-1,199.31	3,747.34	3,737.68	2,966.61	100.35	30.562		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,905.68	7,806.99	49.93	85.47	-90.00	-2,297.75	3,619.39	3,066.97	2,963.89	103.08	29.754		
9,100.00	7,806.99	10,005.68	7,806.99	51.38	86.19	-90.00	-2,397.75	3,620.00	3,066.98	2,961.13	105.85	28.975		
9,200.00	7,806.99	10,105.68	7,806.99	52.84	86.93	-90.00	-2,497.74	3,620.61	3,067.00	2,958.33	108.67	28.224		
9,300.00	7,806.98	10,205.68	7,806.99	54.32	87.70	-90.00	-2,597.74	3,621.22	3,067.01	2,955.48	111.53	27.500		
9,400.00	7,806.98	10,305.68	7,806.98	55.82	88.50	-90.00	-2,697.74	3,621.83	3,067.02	2,952.60	114.42	26.804		
9,500.00	7,806.98	10,405.68	7,806.98	57.34	89.32	-90.00	-2,797.74	3,622.44	3,067.04	2,949.68	117.36	26.134		
9,600.00	7,806.98	10,505.68	7,806.98	58.87	90.17	-90.00	-2,897.74	3,623.04	3,067.05	2,946.73	120.32	25.491		
9,700.00	7,806.98	10,605.68	7,806.98	60.41	91.04	-90.00	-2,997.73	3,623.65	3,067.06	2,943.75	123.32	24.871		
9,800.00	7,806.98	10,705.68	7,806.98	61.96	91.94	-90.00	-3,097.73	3,624.26	3,067.08	2,940.74	126.34	24.276		
9,900.00	7,806.97	10,805.68	7,806.98	63.53	92.86	-90.00	-3,197.73	3,624.87	3,067.09	2,937.70	129.39	23.704		
10,000.00	7,806.97	10,905.68	7,806.97	65.10	93.81	-90.00	-3,297.73	3,625.48	3,067.10	2,934.64	132.46	23.154		
10,100.00	7,806.97	11,005.68	7,806.97	66.69	94.78	-90.00	-3,397.73	3,626.09	3,067.11	2,931.55	135.56	22.625		
10,200.00	7,806.97	11,105.68	7,806.97	68.29	95.77	-90.00	-3,497.73	3,626.70	3,067.13	2,928.45	138.68	22.117		
10,300.00	7,806.97	11,205.68	7,806.97	69.89	96.79	-90.00	-3,597.72	3,627.31	3,067.14	2,925.32	141.82	21.627		
10,400.00	7,806.97	11,305.68	7,806.97	71.50	97.83	-90.00	-3,697.72	3,627.91	3,067.15	2,922.18	144.98	21.156		
10,500.00	7,806.97	11,405.68	7,806.97	73.12	98.89	-90.00	-3,797.72	3,628.52	3,067.17	2,919.02	148.15	20.703		
10,600.00	7,806.96	11,505.68	7,806.97	74.75	99.98	-90.00	-3,897.72	3,629.13	3,067.18	2,915.84	151.34	20.267		
10,700.00	7,806.96	11,605.68	7,806.96	76.38	101.08	-90.00	-3,997.72	3,629.74	3,067.19	2,912.64	154.55	19.846		
10,800.00	7,806.96	11,705.68	7,806.96	78.02	102.20	-90.00	-4,097.71	3,630.35	3,067.21	2,909.44	157.77	19.441		
10,900.00	7,806.96	11,805.68	7,806.96	79.66	103.35	-90.00	-4,197.71	3,630.96	3,067.22	2,906.21	161.00	19.051		
11,000.00	7,806.96	11,905.68	7,806.96	81.31	104.51	-90.00	-4,297.71	3,631.57	3,067.23	2,902.98	164.25	18.674		
11,100.00	7,806.96	12,005.68	7,806.96	82.97	105.69	-90.00	-4,397.71	3,632.18	3,067.24	2,899.73	167.51	18.311		
11,200.00	7,806.95	12,105.68	7,806.96	84.63	106.89	-90.00	-4,497.71	3,632.79	3,067.26	2,896.48	170.78	17.960		
11,300.00	7,806.95	12,205.68	7,806.96	86.29	108.11	-90.00	-4,597.70	3,633.39	3,067.27	2,893.21	174.06	17.622		
11,400.00	7,806.95	12,305.68	7,806.95	87.96	109.35	-90.00	-4,697.70	3,634.00	3,067.28	2,889.93	177.35	17.295		
11,500.00	7,806.95	12,405.68	7,806.95	89.64	110.60	-90.00	-4,797.70	3,634.61	3,067.30	2,886.64	180.66	16.979		
11,600.00	7,806.95	12,505.68	7,806.95	91.31	111.86	-90.00	-4,897.70	3,635.22	3,067.31	2,883.34	183.97	16.673		
11,700.00	7,806.95	12,605.68	7,806.95	92.99	113.15	-90.00	-4,997.70	3,635.83	3,067.32	2,880.04	187.29	16.378		
11,800.00	7,806.95	12,705.68	7,806.95	94.68	114.44	-90.00	-5,097.70	3,636.44	3,067.34	2,876.72	190.61	16.092		
11,900.00	7,806.94	12,805.68	7,806.95	96.36	115.76	-90.00	-5,197.69	3,637.05	3,067.35	2,873.40	193.95	15.815		
12,000.00	7,806.94	12,905.68	7,806.95	98.05	117.08	-90.00	-5,297.69	3,637.66	3,067.36	2,870.07	197.29	15.548		
12,100.00	7,806.94	13,005.68	7,806.94	99.74	118.42	-90.00	-5,397.69	3,638.26	3,067.37	2,866.74	200.64	15.288		
12,200.00	7,806.94	13,105.68	7,806.94	101.44	119.77	-90.00	-5,497.69	3,638.87	3,067.39	2,863.39	203.99	15.037		
12,300.00	7,806.94	13,205.68	7,806.94	103.14	121.14	-90.00	-5,597.69	3,639.48	3,067.40	2,860.04	207.36	14.793		
12,400.00	7,806.94	13,305.68	7,806.94	104.84	122.51	-90.00	-5,697.68	3,640.09	3,067.41	2,856.69	210.72	14.557		
12,500.00	7,806.93	13,405.68	7,806.94	106.54	123.90	-90.00	-5,797.68	3,640.70	3,067.43	2,853.33	214.10	14.327		
12,600.00	7,806.93	13,505.68	7,806.94	108.25	125.30	-90.00	-5,897.68	3,641.31	3,067.44	2,849.96	217.48	14.105		
12,700.00	7,806.93	13,605.68	7,806.94	109.95	126.71	-90.00	-5,997.68	3,641.92	3,067.45	2,846.59	220.86	13.889		
12,800.00	7,806.93	13,705.68	7,806.93	111.66	128.13	-90.00	-6,097.68	3,642.53	3,067.47	2,843.21	224.25	13.679		
12,900.00	7,806.93	13,805.68	7,806.93	113.37	129.56	-90.00	-6,197.68	3,643.13	3,067.48	2,839.83	227.65	13.475		
13,000.00	7,806.93	13,905.68	7,806.93	115.09	131.00	-90.00	-6,297.67	3,643.74	3,067.49	2,836.45	231.04	13.277		
13,100.00	7,806.93	14,005.68	7,806.93	116.80	132.45	-90.00	-6,397.67	3,644.35	3,067.50	2,833.06	234.45	13.084		
13,200.00	7,806.92	14,105.68	7,806.93	118.52	133.91	-90.00	-6,497.67	3,644.96	3,067.52	2,829.66	237.85	12.897		
13,300.00	7,806.92	14,205.68	7,806.93	120.24	135.38	-90.00	-6,597.67	3,645.57	3,067.53	2,826.26	241.27	12.714		
13,400.00	7,806.92	14,305.68	7,806.93	121.96	136.86	-90.00	-6,697.67	3,646.18	3,067.54	2,822.86	244.68	12.537		
13,500.00	7,806.92	14,405.68	7,806.92	123.68	138.34	-90.00	-6,797.66	3,646.79	3,067.56	2,819.46	248.10	12.364		
13,600.00	7,806.92	14,505.68	7,806.92	125.40	139.83	-90.00	-6,897.66	3,647.40	3,067.57	2,816.05	251.52	12.196		
13,700.00	7,806.92	14,605.68	7,806.92	127.12	141.33	-90.00	-6,997.66	3,648.01	3,067.58	2,812.63	254.95	12.032		
13,800.00	7,806.91	14,705.68	7,806.92	128.85	142.84	-90.00	-7,097.66	3,648.61	3,067.60	2,809.22	258.38	11.873		
13,900.00	7,806.91	14,805.68	7,806.92	130.58	144.35	-90.00	-7,197.66	3,649.22	3,067.61	2,805.80	261.81	11.717		
14,000.00	7,806.91	14,905.68	7,806.92	132.30	145.87	-90.00	-7,297.65	3,649.83	3,067.62	2,802.38	265.24	11.565		
14,100.00	7,806.91	15,005.68	7,806.92	134.03	147.40	-90.00	-7,397.65	3,650.44	3,067.63	2,798.95	268.68	11.417		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	15,105.68	7,806.91	135.76	148.93	-90.00	-7,497.65	3,651.05	3,067.65	2,795.52	272.12	11.273		
14,300.00	7,806.91	15,205.68	7,806.91	137.50	150.47	-90.00	-7,597.65	3,651.66	3,067.66	2,792.09	275.57	11.132		
14,400.00	7,806.91	15,305.68	7,806.91	139.23	152.01	-90.00	-7,697.65	3,652.27	3,067.67	2,788.66	279.01	10.995		
14,500.00	7,806.90	15,405.68	7,806.91	140.96	153.56	-90.00	-7,797.65	3,652.88	3,067.69	2,785.23	282.46	10.861		
14,600.00	7,806.90	15,505.68	7,806.91	142.70	155.12	-90.00	-7,897.64	3,653.48	3,067.70	2,781.79	285.91	10.730		
14,700.00	7,806.90	15,605.68	7,806.91	144.43	156.68	-90.00	-7,997.64	3,654.09	3,067.71	2,778.35	289.36	10.602		
14,800.00	7,806.90	15,705.68	7,806.91	146.17	158.25	-90.00	-8,097.64	3,654.70	3,067.72	2,774.90	292.82	10.476		
14,900.00	7,806.90	15,805.68	7,806.90	147.91	159.82	-90.00	-8,197.64	3,655.31	3,067.74	2,771.46	296.28	10.354		
15,000.00	7,806.90	15,905.68	7,806.90	149.64	161.39	-90.00	-8,297.64	3,655.92	3,067.75	2,768.01	299.74	10.235		
15,100.00	7,806.89	16,005.68	7,806.90	151.38	162.97	-90.00	-8,397.63	3,656.53	3,067.76	2,764.57	303.20	10.118		
15,200.00	7,806.89	16,105.68	7,806.90	153.12	164.56	-90.00	-8,497.63	3,657.14	3,067.78	2,761.11	306.66	10.004		
15,300.00	7,806.89	16,205.68	7,806.90	154.86	166.15	-90.00	-8,597.63	3,657.75	3,067.79	2,757.66	310.13	9.892		
15,400.00	7,806.89	16,305.68	7,806.90	156.60	167.74	-90.00	-8,697.63	3,658.36	3,067.80	2,754.21	313.59	9.783		
15,500.00	7,806.89	16,405.68	7,806.90	158.35	169.34	-90.00	-8,797.63	3,658.96	3,067.82	2,750.75	317.06	9.676		
15,600.00	7,806.89	16,505.68	7,806.89	160.09	170.94	-90.00	-8,897.63	3,659.57	3,067.83	2,747.29	320.53	9.571		
15,700.00	7,806.89	16,605.68	7,806.89	161.83	172.55	-90.00	-8,997.62	3,660.18	3,067.84	2,743.84	324.01	9.468		
15,800.00	7,806.88	16,705.68	7,806.89	163.57	174.15	-90.00	-9,097.62	3,660.79	3,067.85	2,740.37	327.48	9.368		
15,900.00	7,806.88	16,805.68	7,806.89	165.32	175.77	-90.00	-9,197.62	3,661.40	3,067.87	2,736.91	330.96	9.270		
16,000.00	7,806.88	16,905.68	7,806.89	167.06	177.38	-90.00	-9,297.62	3,662.01	3,067.88	2,733.45	334.43	9.173		
16,100.00	7,806.88	17,005.68	7,806.89	168.81	179.00	-90.00	-9,397.62	3,662.62	3,067.89	2,729.98	337.91	9.079		
16,200.00	7,806.88	17,105.68	7,806.89	170.56	180.62	-90.00	-9,497.61	3,663.23	3,067.91	2,726.52	341.39	8.986		
16,300.00	7,806.88	17,205.68	7,806.88	172.30	182.25	-90.00	-9,597.61	3,663.83	3,067.92	2,723.05	344.87	8.896		
16,400.00	7,806.87	17,305.68	7,806.88	174.05	183.88	-90.00	-9,697.61	3,664.44	3,067.93	2,719.58	348.35	8.807		
16,500.00	7,806.87	17,405.68	7,806.88	175.80	185.51	-90.00	-9,797.61	3,665.05	3,067.95	2,716.11	351.84	8.720		
16,600.00	7,806.87	17,505.68	7,806.88	177.55	187.15	-90.00	-9,897.61	3,665.66	3,067.96	2,712.64	355.32	8.634		
16,700.00	7,806.87	17,605.68	7,806.88	179.30	188.78	-90.00	-9,997.60	3,666.27	3,067.97	2,709.16	358.81	8.550		
16,800.00	7,806.87	17,705.68	7,806.88	181.04	190.42	-90.00	-10,097.60	3,666.88	3,067.98	2,705.69	362.30	8.468		
16,900.00	7,806.87	17,805.68	7,806.88	182.79	192.07	-90.00	-10,197.60	3,667.49	3,068.00	2,702.21	365.78	8.387		
17,000.00	7,806.87	17,905.68	7,806.87	184.54	193.71	-90.00	-10,297.60	3,668.10	3,068.01	2,698.74	369.27	8.308		
17,100.00	7,806.86	18,005.68	7,806.87	186.30	195.36	-90.00	-10,397.60	3,668.71	3,068.02	2,695.26	372.76	8.230		
17,200.00	7,806.86	18,105.68	7,806.87	188.05	197.01	-90.00	-10,497.60	3,669.32	3,068.04	2,691.78	376.26	8.154		
17,300.00	7,806.86	18,205.68	7,806.87	189.80	198.66	-90.00	-10,597.59	3,669.92	3,068.05	2,688.30	379.75	8.079		
17,400.00	7,806.86	18,305.68	7,806.87	191.55	200.32	-90.00	-10,697.59	3,670.53	3,068.06	2,684.82	383.24	8.006		
17,500.00	7,806.86	18,405.68	7,806.87	193.30	201.97	-90.00	-10,797.59	3,671.14	3,068.08	2,681.34	386.74	7.933		
17,600.00	7,806.86	18,505.68	7,806.86	195.06	203.63	-90.00	-10,897.59	3,671.75	3,068.09	2,677.86	390.23	7.862		
17,700.00	7,806.85	18,605.68	7,806.86	196.81	205.29	-90.00	-10,997.59	3,672.36	3,068.10	2,674.37	393.73	7.792		
17,800.00	7,806.85	18,705.68	7,806.86	198.56	206.96	-90.00	-11,097.58	3,672.97	3,068.11	2,670.89	397.23	7.724		
17,898.35	7,807.00	18,807.37	7,806.89	200.29	208.65	-90.00	-11,199.28	3,673.58	3,068.12	2,667.46	400.66	7.658 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-1.30	233.93	233.93					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.30	233.93	233.93	233.66	0.27	870.109		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.30	233.93	233.93	232.95	0.99	237.303		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-1.30	233.93	233.93	232.23	1.70	137.386 CC, ES		
400.00	400.00	392.64	392.62	1.21	1.18	90.41	-1.68	235.38	235.50	233.11	2.39	98.676		
500.00	500.00	485.08	484.95	1.57	1.50	90.67	-2.82	239.71	240.20	237.13	3.07	78.298		
600.00	600.00	577.14	576.71	1.93	1.83	91.09	-4.70	246.89	248.03	244.28	3.75	66.156		
700.00	700.00	668.63	667.61	2.29	2.18	91.63	-7.30	256.84	258.98	254.55	4.43	58.477		
800.00	800.00	759.37	757.40	2.64	2.55	92.25	-10.61	269.48	273.03	267.93	5.10	53.491		
900.00	900.00	849.19	845.83	3.00	2.93	92.93	-14.59	284.70	290.17	284.40	5.77	50.254		
1,000.00	1,000.00	937.92	932.67	3.36	3.33	93.64	-19.21	302.36	310.36	303.92	6.44	48.216		
1,100.00	1,100.00	1,025.44	1,017.71	3.72	3.76	94.34	-24.44	322.31	333.55	326.45	7.09	47.016		
1,200.00	1,200.00	1,111.59	1,100.77	4.08	4.22	95.01	-30.22	344.40	359.68	351.95	7.73	46.516		
1,300.00	1,300.00	1,196.26	1,181.71	4.44	4.70	95.66	-36.51	368.46	388.70	380.33	8.37	46.460		
1,400.00	1,399.98	1,279.67	1,260.69	4.78	5.21	-54.68	-43.31	394.41	419.57	410.60	8.97	46.762		
1,500.00	1,499.84	1,362.11	1,337.94	5.11	5.76	-54.06	-50.59	422.23	451.27	441.71	9.56	47.207		
1,600.00	1,599.45	1,443.53	1,413.40	5.44	6.34	-53.70	-58.33	451.80	483.71	473.56	10.15	47.662		
1,700.00	1,698.70	1,523.91	1,487.01	5.79	6.95	-53.55	-66.50	483.03	516.85	506.11	10.74	48.107		
1,800.00	1,797.47	1,603.21	1,558.73	6.15	7.59	-53.56	-75.07	515.78	550.69	539.34	11.35	48.521		
1,900.00	1,895.62	1,681.43	1,628.51	6.53	8.27	-53.70	-84.02	549.95	585.21	573.24	11.97	48.877		
1,912.93	1,908.27	1,691.47	1,637.40	6.58	8.36	-53.72	-85.20	554.47	589.73	577.68	12.05	48.931		
2,000.00	1,993.35	1,758.40	1,696.22	6.93	8.98	-54.37	-93.28	585.36	621.15	608.53	12.62	49.238		
2,100.00	2,091.07	1,833.84	1,761.60	7.34	9.72	-55.00	-102.81	621.77	659.60	646.33	13.27	49.718		
2,200.00	2,188.79	1,907.69	1,824.62	7.77	10.48	-55.53	-112.56	659.01	700.47	686.55	13.92	50.320		
2,300.00	2,286.51	1,979.91	1,885.28	8.20	11.27	-55.97	-122.48	696.93	743.65	729.08	14.58	51.021		
2,400.00	2,384.23	2,050.47	1,943.56	8.65	12.08	-56.32	-132.55	735.40	789.06	773.83	15.23	51.815		
2,500.00	2,481.95	2,127.57	1,998.66	9.10	12.99	-56.60	-142.57	773.68	836.58	820.67	15.91	52.574		
2,600.00	2,579.67	2,205.57	2,068.84	9.56	13.95	-56.91	-155.70	823.84	885.26	868.51	16.76	52.830		
2,700.00	2,677.39	2,307.18	2,139.02	10.02	15.22	-57.18	-168.83	874.01	933.96	916.21	17.75	52.618		
2,800.00	2,775.11	2,380.08	2,209.20	10.49	16.14	-57.43	-181.96	924.17	982.67	964.08	18.59	52.869		
2,900.00	2,872.83	2,467.34	2,279.38	10.96	17.24	-57.65	-195.09	974.33	1,031.39	1,011.88	19.52	52.845		
3,000.00	2,970.55	2,554.60	2,349.56	11.44	18.35	-57.86	-208.22	1,024.50	1,080.13	1,059.67	20.46	52.803		
3,100.00	3,068.27	2,641.86	2,419.74	11.92	19.47	-58.05	-221.35	1,074.66	1,128.87	1,107.47	21.40	52.747		
3,200.00	3,165.99	2,729.12	2,489.93	12.40	20.59	-58.22	-234.48	1,124.82	1,177.63	1,155.27	22.35	52.681		
3,300.00	3,263.71	2,816.38	2,560.11	12.88	21.71	-58.37	-247.61	1,174.99	1,226.39	1,203.07	23.31	52.607		
3,400.00	3,361.43	2,903.64	2,630.29	13.37	22.83	-58.52	-260.73	1,225.15	1,275.15	1,250.88	24.28	52.528		
3,500.00	3,459.15	3,009.10	2,700.47	13.86	24.20	-58.65	-273.86	1,275.32	1,323.92	1,298.57	25.36	52.212		
3,600.00	3,556.87	3,078.16	2,770.65	14.35	25.09	-58.78	-286.99	1,325.48	1,372.70	1,346.49	26.22	52.361		
3,700.00	3,654.59	3,165.41	2,840.83	14.84	26.22	-58.90	-300.12	1,375.64	1,421.48	1,394.29	27.19	52.275		
3,800.00	3,752.31	3,252.67	2,911.01	15.34	27.36	-59.00	-313.25	1,425.81	1,470.27	1,442.10	28.17	52.190		
3,900.00	3,850.03	3,339.93	2,981.19	15.83	28.49	-59.11	-326.38	1,475.97	1,519.06	1,489.91	29.15	52.104		
4,000.00	3,947.75	3,427.19	3,051.37	16.33	29.63	-59.20	-339.51	1,526.13	1,567.85	1,537.71	30.14	52.019		
4,100.00	4,045.47	3,514.45	3,121.55	16.83	30.76	-59.29	-352.64	1,576.30	1,616.65	1,585.52	31.13	51.936		
4,200.00	4,143.19	3,601.71	3,191.74	17.32	31.90	-59.38	-365.77	1,626.46	1,665.45	1,633.33	32.12	51.854		
4,300.00	4,240.91	3,688.97	3,261.92	17.82	33.04	-59.46	-378.90	1,676.62	1,714.25	1,681.14	33.11	51.773		
4,400.00	4,338.63	3,776.23	3,332.10	18.32	34.18	-59.53	-392.03	1,726.79	1,763.06	1,728.95	34.11	51.694		
4,500.00	4,436.35	3,863.49	3,402.28	18.82	35.33	-59.60	-405.16	1,776.95	1,811.86	1,776.76	35.10	51.616		
4,600.00	4,534.07	3,950.75	3,472.46	19.33	36.47	-59.67	-418.28	1,827.11	1,860.67	1,824.57	36.10	51.541		
4,700.00	4,631.79	4,038.01	3,542.64	19.83	37.61	-59.73	-431.41	1,877.28	1,909.48	1,872.38	37.10	51.467		
4,800.00	4,729.51	4,125.26	3,612.82	20.33	38.75	-59.79	-444.54	1,927.44	1,958.30	1,920.19	38.10	51.395		
4,900.00	4,827.23	4,212.52	3,683.00	20.83	39.90	-59.85	-457.67	1,977.61	2,007.11	1,968.00	39.11	51.325		
5,000.00	4,924.95	4,300.22	3,753.18	21.34	41.05	-59.91	-470.80	2,027.77	2,055.92	2,015.81	40.11	51.253		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,387.04	3,823.37	21.84	42.19	-59.96	-483.93	2,077.93	2,104.74	2,063.63	41.12	51.191		
5,200.00	5,120.39	4,474.30	3,893.55	22.35	43.33	-60.01	-497.06	2,128.10	2,153.56	2,111.44	42.12	51.126		
5,300.00	5,218.11	4,561.56	3,963.73	22.85	44.48	-60.06	-510.19	2,178.26	2,202.38	2,159.25	43.13	51.063		
5,400.00	5,315.83	4,648.82	4,033.91	23.36	45.62	-60.10	-523.32	2,228.42	2,251.20	2,207.06	44.14	51.001		
5,500.00	5,413.55	4,736.08	4,104.09	23.86	46.77	-60.15	-536.45	2,278.59	2,300.02	2,254.87	45.15	50.942		
5,600.00	5,511.27	4,823.34	4,174.27	24.37	47.91	-60.19	-549.58	2,328.75	2,348.84	2,302.68	46.16	50.883		
5,700.00	5,608.99	4,910.60	4,244.45	24.88	49.06	-60.23	-562.71	2,378.91	2,397.67	2,350.49	47.17	50.827		
5,800.00	5,706.71	5,002.15	4,314.63	25.38	50.26	-60.27	-575.84	2,429.08	2,446.49	2,398.28	48.21	50.742		
5,900.00	5,804.43	5,085.11	4,384.81	25.89	51.35	-60.31	-588.96	2,479.24	2,495.32	2,446.12	49.20	50.718		
6,000.00	5,902.15	5,172.37	4,455.00	26.40	52.50	-60.34	-602.09	2,529.40	2,544.14	2,493.93	50.21	50.665		
6,100.00	5,999.87	5,259.63	4,525.18	26.91	53.65	-60.38	-615.22	2,579.57	2,592.97	2,541.74	51.23	50.614		
6,200.00	6,097.59	5,346.89	4,595.36	27.42	54.80	-60.41	-628.35	2,629.73	2,641.80	2,589.55	52.25	50.564		
6,300.00	6,195.30	5,434.15	4,665.54	27.92	55.94	-60.44	-641.48	2,679.90	2,690.62	2,637.36	53.26	50.515		
6,400.00	6,293.02	5,521.41	4,735.72	28.43	57.09	-60.47	-654.61	2,730.06	2,739.45	2,685.17	54.28	50.468		
6,500.00	6,390.74	5,608.67	4,805.90	28.94	58.24	-60.50	-667.74	2,780.22	2,788.28	2,732.98	55.30	50.421		
6,600.00	6,488.46	5,704.07	4,876.08	29.45	59.50	-60.53	-680.87	2,830.39	2,837.11	2,780.74	56.37	50.328		
6,638.14	6,525.73	5,729.21	4,902.85	29.64	59.83	-60.54	-685.88	2,849.52	2,855.73	2,799.03	56.71	50.359		
6,700.00	6,586.32	5,783.03	4,946.14	29.95	60.54	-61.16	-693.97	2,880.46	2,886.23	2,828.90	57.33	50.347		
6,800.00	6,684.79	5,869.33	5,015.55	30.42	61.67	-62.14	-706.96	2,930.07	2,936.69	2,878.42	58.27	50.396		
6,900.00	6,783.81	5,954.66	5,084.18	30.85	62.80	-63.10	-719.80	2,979.13	2,988.56	2,929.41	59.15	50.524		
7,000.00	6,883.25	6,038.92	5,151.95	31.24	63.91	-64.04	-732.48	3,027.57	3,041.80	2,981.83	59.96	50.728		
7,100.00	6,983.00	6,122.01	5,218.77	31.60	65.00	-64.98	-744.98	3,075.33	3,096.35	3,035.64	60.71	51.005		
7,200.00	7,082.93	6,203.82	5,284.57	31.92	66.08	-65.90	-757.29	3,122.37	3,152.18	3,090.79	61.38	51.352		
7,251.07	7,134.00	6,245.08	5,317.76	32.06	66.62	84.92	-763.50	3,146.08	3,181.17	3,119.47	61.70	51.559		
7,300.00	7,182.93	6,284.43	5,349.41	32.19	67.14	85.10	-769.42	3,168.71	3,209.12	3,147.13	61.99	51.769		
7,351.07	7,234.00	6,325.51	5,382.44	32.32	67.68	85.27	-775.60	3,192.32	3,238.31	3,176.02	62.29	51.985		
7,400.00	7,282.87	6,365.14	5,414.32	32.47	68.20	-90.84	-781.56	3,215.10	3,266.39	3,203.76	62.63	52.156		
7,450.00	7,332.44	6,405.99	5,447.18	32.67	68.74	-87.29	-787.71	3,238.59	3,295.14	3,232.08	63.05	52.261		
7,500.00	7,381.26	6,446.91	5,480.08	32.90	69.28	-83.88	-793.86	3,262.11	3,323.72	3,260.17	63.55	52.300		
7,550.00	7,428.96	6,487.57	5,512.79	33.18	69.81	-80.64	-799.98	3,285.49	3,351.92	3,287.80	64.12	52.272		
7,600.00	7,475.17	6,527.67	5,545.04	33.48	70.34	-77.60	-806.02	3,308.54	3,379.57	3,314.80	64.77	52.180		
7,650.00	7,519.55	6,566.91	5,576.59	33.82	70.86	-74.78	-811.92	3,331.09	3,406.48	3,341.00	65.48	52.024		
7,700.00	7,561.76	6,605.16	5,607.29	34.20	71.36	-91.45	-818.24	3,356.47	3,431.27	3,368.15	75.12	45.439		
7,750.00	7,601.47	6,644.91	5,638.08	34.60	71.86	-91.79	-824.56	3,381.85	3,456.65	3,393.63	75.92	44.971		
7,800.00	7,638.39	6,684.66	5,668.87	35.04	72.36	-92.14	-830.88	3,407.33	3,482.13	3,419.11	76.74	44.500		
7,850.00	7,672.23	6,724.41	5,699.66	35.50	72.86	-92.48	-837.20	3,432.81	3,507.61	3,444.59	77.57	44.032		
7,900.00	7,702.74	6,764.16	5,730.45	35.99	73.36	-92.82	-843.52	3,458.29	3,533.09	3,470.07	78.42	43.572		
7,950.00	7,729.67	6,799.91	5,761.24	36.50	73.86	-93.15	-849.84	3,483.77	3,558.57	3,495.55	79.26	43.122		
8,000.00	7,752.84	6,830.66	5,792.03	37.04	74.36	-93.46	-856.16	3,509.25	3,584.05	3,521.03	80.09	42.690		
8,050.00	7,772.06	6,861.41	5,822.82	37.60	74.86	-93.75	-862.48	3,534.73	3,609.53	3,546.51	80.91	42.269		
8,100.00	7,787.18	6,892.16	5,853.61	38.17	75.36	-94.00	-868.80	3,560.21	3,635.01	3,572.00	81.71	41.861		
8,150.00	7,798.10	6,922.91	5,884.40	38.76	75.86	-94.20	-875.12	3,585.69	3,660.49	3,597.48	82.52	41.461		
8,200.00	7,804.72	6,953.66	5,915.19	39.36	76.36	-94.32	-881.44	3,611.17	3,685.97	3,622.96	83.34	41.057		
8,251.15	7,807.00	6,984.41	5,945.98	39.97	76.86	-94.37	-887.76	3,636.65	3,711.45	3,648.44	84.21	40.636		
8,300.00	7,807.00	6,984.41	5,945.98	40.56	77.36	-94.37	-894.08	3,662.13	3,736.93	3,673.92	85.29	40.122		
8,400.00	7,807.00	6,984.41	5,945.98	41.80	78.36	-94.37	-900.40	3,687.61	3,762.41	3,699.40	87.58	39.072		
8,500.00	7,807.00	6,984.41	5,945.98	43.08	79.36	-94.37	-906.72	3,713.09	3,787.89	3,724.88	89.95	38.043		
8,600.00	7,806.99	6,983.20	5,944.77	44.40	80.36	-94.37	-913.04	3,738.57	3,813.37	3,750.36	92.39	37.037		
8,700.00	7,806.99	6,982.00	5,943.56	45.74	81.36	-94.37	-919.36	3,764.05	3,838.85	3,775.84	94.91	36.057		
8,800.00	7,806.99	6,980.79	5,942.35	47.11	82.36	-94.37	-925.68	3,789.53	3,864.33	3,801.32	97.48	35.104		
8,900.00	7,806.99	6,979.58	5,941.14	48.51	83.36	-94.37	-932.00	3,815.01	3,889.81	3,826.80	100.11	34.181		
9,000.00	7,806.99	6,978.37	5,940.93	49.93	84.36	-94.37	-938.32	3,840.49	3,915.29	3,852.28	102.80	33.288		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	10,381.27	8,067.98	51.38	92.53	-94.37	-2,395.67	3,965.08	3,422.03	3,316.50	105.54	32.425		
9,200.00	7,806.99	10,481.27	8,067.98	52.84	93.21	-94.37	-2,495.67	3,965.68	3,422.05	3,313.73	108.32	31.593		
9,300.00	7,806.98	10,581.27	8,067.98	54.32	93.91	-94.37	-2,595.67	3,966.29	3,422.06	3,310.92	111.14	30.790		
9,400.00	7,806.98	10,681.27	8,067.97	55.82	94.64	-94.37	-2,695.66	3,966.90	3,422.07	3,308.07	114.01	30.017		
9,500.00	7,806.98	10,781.27	8,067.97	57.34	95.39	-94.37	-2,795.66	3,967.51	3,422.08	3,305.18	116.91	29.272		
9,600.00	7,806.98	10,881.27	8,067.97	58.87	96.17	-94.37	-2,895.66	3,968.12	3,422.10	3,302.26	119.84	28.556		
9,700.00	7,806.98	10,981.27	8,067.97	60.41	96.97	-94.37	-2,995.66	3,968.73	3,422.11	3,299.30	122.80	27.866		
9,800.00	7,806.98	11,081.27	8,067.96	61.96	97.79	-94.37	-3,095.66	3,969.33	3,422.12	3,296.32	125.80	27.203		
9,900.00	7,806.97	11,181.27	8,067.96	63.53	98.64	-94.37	-3,195.65	3,969.94	3,422.13	3,293.31	128.82	26.565		
10,000.00	7,806.97	11,281.27	8,067.96	65.10	99.51	-94.37	-3,295.65	3,970.55	3,422.15	3,290.28	131.87	25.951		
10,100.00	7,806.97	11,381.27	8,067.96	66.69	100.41	-94.37	-3,395.65	3,971.16	3,422.16	3,287.22	134.94	25.361		
10,200.00	7,806.97	11,481.27	8,067.96	68.29	101.33	-94.37	-3,495.65	3,971.77	3,422.17	3,284.14	138.03	24.793		
10,300.00	7,806.97	11,581.27	8,067.95	69.89	102.27	-94.37	-3,595.65	3,972.37	3,422.18	3,281.04	141.15	24.246		
10,400.00	7,806.97	11,681.27	8,067.95	71.50	103.23	-94.37	-3,695.65	3,972.98	3,422.19	3,277.92	144.28	23.719		
10,500.00	7,806.97	11,781.27	8,067.95	73.12	104.21	-94.37	-3,795.64	3,973.59	3,422.21	3,274.78	147.43	23.212		
10,600.00	7,806.96	11,881.27	8,067.95	74.75	105.22	-94.37	-3,895.64	3,974.20	3,422.22	3,271.62	150.60	22.724		
10,700.00	7,806.96	11,981.27	8,067.94	76.38	106.25	-94.37	-3,995.64	3,974.81	3,422.23	3,268.45	153.78	22.254		
10,800.00	7,806.96	12,081.27	8,067.94	78.02	107.29	-94.37	-4,095.64	3,975.42	3,422.24	3,265.26	156.98	21.800		
10,900.00	7,806.96	12,181.27	8,067.94	79.66	108.36	-94.37	-4,195.64	3,976.02	3,422.26	3,262.06	160.20	21.363		
11,000.00	7,806.96	12,281.27	8,067.94	81.31	109.45	-94.37	-4,295.63	3,976.63	3,422.27	3,258.85	163.42	20.941		
11,100.00	7,806.96	12,381.27	8,067.93	82.97	110.55	-94.37	-4,395.63	3,977.24	3,422.28	3,255.62	166.66	20.534		
11,200.00	7,806.95	12,481.27	8,067.93	84.63	111.68	-94.37	-4,495.63	3,977.85	3,422.29	3,252.38	169.91	20.141		
11,300.00	7,806.95	12,581.27	8,067.93	86.29	112.82	-94.37	-4,595.63	3,978.46	3,422.31	3,249.13	173.18	19.762		
11,400.00	7,806.95	12,681.27	8,067.93	87.96	113.98	-94.37	-4,695.63	3,979.07	3,422.32	3,245.87	176.45	19.396		
11,500.00	7,806.95	12,781.27	8,067.93	89.64	115.16	-94.37	-4,795.63	3,979.67	3,422.33	3,242.60	179.73	19.041		
11,600.00	7,806.95	12,881.27	8,067.92	91.31	116.36	-94.37	-4,895.62	3,980.28	3,422.34	3,239.32	183.02	18.699		
11,700.00	7,806.95	12,981.27	8,067.92	92.99	117.57	-94.37	-4,995.62	3,980.89	3,422.35	3,236.03	186.32	18.368		
11,800.00	7,806.95	13,081.27	8,067.92	94.68	118.80	-94.37	-5,095.62	3,981.50	3,422.37	3,232.73	189.63	18.047		
11,900.00	7,806.94	13,181.27	8,067.92	96.36	120.04	-94.37	-5,195.62	3,982.11	3,422.38	3,229.43	192.95	17.737		
12,000.00	7,806.94	13,281.27	8,067.91	98.05	121.30	-94.37	-5,295.62	3,982.72	3,422.39	3,226.11	196.28	17.436		
12,100.00	7,806.94	13,381.27	8,067.91	99.74	122.57	-94.37	-5,395.61	3,983.32	3,422.40	3,222.79	199.61	17.145		
12,200.00	7,806.94	13,481.27	8,067.91	101.44	123.86	-94.37	-5,495.61	3,983.93	3,422.42	3,219.47	202.95	16.863		
12,300.00	7,806.94	13,581.27	8,067.91	103.14	125.16	-94.37	-5,595.61	3,984.54	3,422.43	3,216.13	206.30	16.590		
12,400.00	7,806.94	13,681.27	8,067.91	104.84	126.48	-94.37	-5,695.61	3,985.15	3,422.44	3,212.79	209.65	16.325		
12,500.00	7,806.93	13,781.27	8,067.90	106.54	127.80	-94.37	-5,795.61	3,985.76	3,422.45	3,209.45	213.01	16.067		
12,600.00	7,806.93	13,881.27	8,067.90	108.25	129.14	-94.37	-5,895.60	3,986.36	3,422.47	3,206.09	216.37	15.818		
12,700.00	7,806.93	13,981.27	8,067.90	109.95	130.50	-94.37	-5,995.60	3,986.97	3,422.48	3,202.74	219.74	15.575		
12,800.00	7,806.93	14,081.27	8,067.90	111.66	131.86	-94.37	-6,095.60	3,987.58	3,422.49	3,199.37	223.12	15.340		
12,900.00	7,806.93	14,181.27	8,067.89	113.37	133.23	-94.37	-6,195.60	3,988.19	3,422.50	3,196.01	226.50	15.111		
13,000.00	7,806.93	14,281.27	8,067.89	115.09	134.62	-94.37	-6,295.60	3,988.80	3,422.52	3,192.64	229.88	14.888		
13,100.00	7,806.93	14,381.27	8,067.89	116.80	136.01	-94.37	-6,395.60	3,989.41	3,422.53	3,189.26	233.27	14.672		
13,200.00	7,806.92	14,481.27	8,067.89	118.52	137.42	-94.37	-6,495.59	3,990.01	3,422.54	3,185.88	236.66	14.462		
13,300.00	7,806.92	14,581.27	8,067.88	120.24	138.84	-94.37	-6,595.59	3,990.62	3,422.55	3,182.49	240.06	14.257		
13,400.00	7,806.92	14,681.27	8,067.88	121.96	140.26	-94.37	-6,695.59	3,991.23	3,422.56	3,179.10	243.46	14.058		
13,500.00	7,806.92	14,781.27	8,067.88	123.68	141.70	-94.37	-6,795.59	3,991.84	3,422.58	3,175.71	246.87	13.864		
13,600.00	7,806.92	14,881.27	8,067.88	125.40	143.14	-94.37	-6,895.59	3,992.45	3,422.59	3,172.31	250.28	13.675		
13,700.00	7,806.92	14,981.27	8,067.88	127.12	144.59	-94.37	-6,995.58	3,993.06	3,422.60	3,168.91	253.69	13.491		
13,800.00	7,806.91	15,081.27	8,067.87	128.85	146.05	-94.37	-7,095.58	3,993.66	3,422.61	3,165.51	257.10	13.312		
13,900.00	7,806.91	15,181.27	8,067.87	130.58	147.52	-94.37	-7,195.58	3,994.27	3,422.63	3,162.10	260.52	13.138		
14,000.00	7,806.91	15,281.27	8,067.87	132.30	149.00	-94.37	-7,295.58	3,994.88	3,422.64	3,158.69	263.95	12.967		
14,100.00	7,806.91	15,381.27	8,067.87	134.03	150.48	-94.37	-7,395.58	3,995.49	3,422.65	3,155.28	267.37	12.801		
14,200.00	7,806.91	15,481.27	8,067.86	135.76	151.97	-94.37	-7,495.58	3,996.10	3,422.66	3,151.86	270.80	12.639		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
14,300.00	7,806.91	15,581.27	8,067.86	137.50	153.47	-94.37	-7,595.57	3,996.71	3,422.68	3,148.45	274.23	12.481		
14,400.00	7,806.91	15,681.27	8,067.86	139.23	154.97	-94.37	-7,695.57	3,997.31	3,422.69	3,145.02	277.66	12.327		
14,500.00	7,806.90	15,781.27	8,067.86	140.96	156.48	-94.37	-7,795.57	3,997.92	3,422.70	3,141.60	281.10	12.176		
14,600.00	7,806.90	15,881.27	8,067.85	142.70	158.00	-94.37	-7,895.57	3,998.53	3,422.71	3,138.17	284.54	12.029		
14,700.00	7,806.90	15,981.27	8,067.85	144.43	159.52	-94.37	-7,995.57	3,999.14	3,422.72	3,134.75	287.98	11.885		
14,800.00	7,806.90	16,081.27	8,067.85	146.17	161.05	-94.37	-8,095.56	3,999.75	3,422.74	3,131.31	291.42	11.745		
14,900.00	7,806.90	16,181.27	8,067.85	147.91	162.59	-94.37	-8,195.56	4,000.35	3,422.75	3,127.88	294.87	11.608		
15,000.00	7,806.90	16,281.27	8,067.85	149.64	164.13	-94.37	-8,295.56	4,000.96	3,422.76	3,124.45	298.32	11.474		
15,100.00	7,806.89	16,381.27	8,067.84	151.38	165.68	-94.37	-8,395.56	4,001.57	3,422.77	3,121.01	301.77	11.342		
15,200.00	7,806.89	16,481.27	8,067.84	153.12	167.23	-94.37	-8,495.56	4,002.18	3,422.79	3,117.57	305.22	11.214		
15,300.00	7,806.89	16,581.27	8,067.84	154.86	168.78	-94.37	-8,595.56	4,002.79	3,422.80	3,114.13	308.67	11.089		
15,400.00	7,806.89	16,681.27	8,067.84	156.60	170.34	-94.37	-8,695.55	4,003.40	3,422.81	3,110.68	312.13	10.966		
15,500.00	7,806.89	16,781.27	8,067.83	158.35	171.91	-94.37	-8,795.55	4,004.00	3,422.82	3,107.24	315.58	10.846		
15,600.00	7,806.89	16,881.27	8,067.83	160.09	173.48	-94.37	-8,895.55	4,004.61	3,422.84	3,103.79	319.04	10.728		
15,700.00	7,806.89	16,981.27	8,067.83	161.83	175.06	-94.37	-8,995.55	4,005.22	3,422.85	3,100.34	322.50	10.613		
15,800.00	7,806.88	17,081.27	8,067.83	163.57	176.64	-94.37	-9,095.55	4,005.83	3,422.86	3,096.89	325.97	10.501		
15,900.00	7,806.88	17,181.27	8,067.82	165.32	178.22	-94.37	-9,195.54	4,006.44	3,422.87	3,093.44	329.43	10.390		
16,000.00	7,806.88	17,281.27	8,067.82	167.06	179.81	-94.37	-9,295.54	4,007.05	3,422.89	3,089.99	332.90	10.282		
16,100.00	7,806.88	17,381.27	8,067.82	168.81	181.40	-94.37	-9,395.54	4,007.65	3,422.90	3,086.53	336.36	10.176		
16,200.00	7,806.88	17,481.27	8,067.82	170.56	182.99	-94.37	-9,495.54	4,008.26	3,422.91	3,083.08	339.83	10.072		
16,300.00	7,806.88	17,581.27	8,067.82	172.30	184.59	-94.37	-9,595.54	4,008.87	3,422.92	3,079.62	343.30	9.971		
16,400.00	7,806.87	17,681.27	8,067.81	174.05	186.19	-94.37	-9,695.53	4,009.48	3,422.93	3,076.16	346.77	9.871		
16,500.00	7,806.87	17,781.27	8,067.81	175.80	187.80	-94.37	-9,795.53	4,010.09	3,422.95	3,072.70	350.25	9.773		
16,600.00	7,806.87	17,881.27	8,067.81	177.55	189.41	-94.37	-9,895.53	4,010.70	3,422.96	3,069.24	353.72	9.677		
16,700.00	7,806.87	17,981.27	8,067.81	179.30	191.02	-94.37	-9,995.53	4,011.30	3,422.97	3,065.77	357.20	9.583		
16,800.00	7,806.87	18,081.27	8,067.80	181.04	192.64	-94.37	-10,095.53	4,011.91	3,422.98	3,062.31	360.67	9.491		
16,900.00	7,806.87	18,181.27	8,067.80	182.79	194.26	-94.37	-10,195.53	4,012.52	3,423.00	3,058.85	364.15	9.400		
17,000.00	7,806.87	18,281.27	8,067.80	184.54	195.88	-94.37	-10,295.52	4,013.13	3,423.01	3,055.38	367.63	9.311		
17,100.00	7,806.86	18,381.27	8,067.80	186.30	197.51	-94.37	-10,395.52	4,013.74	3,423.02	3,051.91	371.11	9.224		
17,200.00	7,806.86	18,481.27	8,067.79	188.05	199.13	-94.37	-10,495.52	4,014.34	3,423.03	3,048.44	374.59	9.138		
17,300.00	7,806.86	18,581.27	8,067.79	189.80	200.76	-94.37	-10,595.52	4,014.95	3,423.05	3,044.97	378.07	9.054		
17,400.00	7,806.86	18,681.27	8,067.79	191.55	202.40	-94.37	-10,695.52	4,015.56	3,423.06	3,041.50	381.56	8.971		
17,500.00	7,806.86	18,781.27	8,067.79	193.30	204.03	-94.37	-10,795.51	4,016.17	3,423.07	3,038.03	385.04	8.890		
17,600.00	7,806.86	18,881.27	8,067.79	195.06	205.67	-94.37	-10,895.51	4,016.78	3,423.08	3,034.56	388.53	8.810		
17,700.00	7,806.85	18,981.27	8,067.78	196.81	207.31	-94.37	-10,995.51	4,017.39	3,423.09	3,031.08	392.01	8.732		
17,800.00	7,806.85	19,081.27	8,067.78	198.56	208.96	-94.37	-11,095.51	4,017.99	3,423.11	3,027.61	395.50	8.655		
17,884.95	7,806.85	19,166.22	8,067.78	200.05	210.36	-94.37	-11,180.45	4,018.51	3,423.12	3,024.66	398.46	8.591		
17,898.35	7,807.00	19,179.62	8,067.78	200.29	210.58	-94.37	-11,193.86	4,018.59	3,423.10	3,024.17	398.93	8.581 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-1.40	251.92	251.93					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.40	251.92	251.93	251.66	0.27	937.042		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-1.40	251.92	251.93	250.94	0.99	255.557 CC, ES		
300.00	300.00	292.08	292.06	0.85	0.82	90.39	-1.74	253.36	253.49	251.82	1.67	151.760		
400.00	400.00	383.96	383.83	1.21	1.14	90.61	-2.76	257.67	258.19	255.84	2.35	109.642		
500.00	500.00	475.47	475.05	1.57	1.48	90.96	-4.45	264.80	266.01	262.97	3.04	87.510		
600.00	600.00	566.42	565.42	1.93	1.83	91.42	-6.79	274.70	276.95	273.22	3.72	74.386		
700.00	700.00	656.63	654.70	2.29	2.20	91.95	-9.76	287.26	290.98	286.58	4.40	66.089		
800.00	800.00	745.94	742.64	2.64	2.59	92.53	-13.34	302.39	308.07	303.00	5.08	60.678		
900.00	900.00	834.18	829.02	3.00	3.00	93.13	-17.49	319.96	328.20	322.46	5.75	57.128		
1,000.00	1,000.00	921.22	913.63	3.36	3.43	93.74	-22.18	339.81	351.31	344.91	6.41	54.844		
1,100.00	1,100.00	1,006.93	996.30	3.72	3.89	94.33	-27.38	361.79	377.35	370.30	7.05	53.499		
1,200.00	1,200.00	1,091.17	1,076.87	4.08	4.38	94.90	-33.04	385.73	406.25	398.56	7.69	52.818		
1,300.00	1,300.00	1,173.85	1,155.20	4.44	4.89	95.43	-39.13	411.46	437.95	429.62	8.32	52.613		
1,400.00	1,399.98	1,255.22	1,231.52	4.78	5.44	-54.94	-45.62	438.92	471.42	462.49	8.93	52.809		
1,500.00	1,499.84	1,335.58	1,306.07	5.11	6.02	-54.31	-52.52	468.10	505.65	496.14	9.51	53.172		
1,600.00	1,599.45	1,414.89	1,378.80	5.44	6.62	-53.92	-59.80	498.88	540.58	530.48	10.10	53.548		
1,700.00	1,698.70	1,493.12	1,449.65	5.79	7.26	-53.72	-67.43	531.15	576.15	565.46	10.69	53.912		
1,800.00	1,797.47	1,570.26	1,518.60	6.15	7.94	-53.66	-75.39	564.80	612.35	601.06	11.29	54.238		
1,900.00	1,895.62	1,646.28	1,585.62	6.53	8.65	-53.71	-83.65	599.72	649.18	637.27	11.91	54.511		
1,912.93	1,908.27	1,656.03	1,594.15	6.58	8.74	-53.73	-84.73	604.32	653.98	642.00	11.99	54.555		
2,000.00	1,993.35	1,721.02	1,650.56	6.93	9.38	-54.35	-92.16	635.73	687.34	674.80	12.54	54.791		
2,100.00	2,091.07	1,794.22	1,713.20	7.34	10.13	-54.96	-100.87	672.57	727.94	714.75	13.19	55.190		
2,200.00	2,188.79	1,865.81	1,773.51	7.77	10.92	-55.48	-109.75	710.11	770.88	757.04	13.84	55.703		
2,300.00	2,286.51	1,935.78	1,831.50	8.20	11.72	-55.92	-118.76	748.20	816.06	801.57	14.49	56.332		
2,400.00	2,384.23	2,004.08	1,887.18	8.65	12.53	-56.29	-127.86	786.70	863.38	848.25	15.13	57.065		
2,500.00	2,481.95	2,070.71	1,940.56	9.10	13.36	-56.59	-137.04	825.49	912.75	896.97	15.77	57.876		
2,600.00	2,579.67	2,135.65	1,991.69	9.56	14.21	-56.84	-146.25	864.46	964.07	947.67	16.40	58.772		
2,700.00	2,677.39	2,200.00	2,041.45	10.02	15.07	-57.05	-155.64	904.17	1,017.28	1,000.24	17.04	59.699		
2,800.00	2,775.11	2,260.49	2,087.37	10.49	15.92	-57.21	-164.70	942.48	1,072.28	1,054.64	17.64	60.780		
2,900.00	2,872.83	2,334.12	2,142.42	10.96	16.98	-57.37	-175.95	990.07	1,128.70	1,110.28	18.43	61.257		
3,000.00	2,970.55	2,416.54	2,203.97	11.44	18.17	-57.53	-188.57	1,043.41	1,185.26	1,165.93	19.34	61.301		
3,100.00	3,068.27	2,501.04	2,265.51	11.92	19.41	-57.68	-201.18	1,096.76	1,241.83	1,221.57	20.27	61.276		
3,200.00	3,165.99	2,581.38	2,327.06	12.40	20.59	-57.81	-213.80	1,150.11	1,298.41	1,277.23	21.18	61.307		
3,300.00	3,263.71	2,663.80	2,388.61	12.88	21.81	-57.94	-226.42	1,203.46	1,354.99	1,332.88	22.11	61.282		
3,400.00	3,361.43	2,746.22	2,450.15	13.37	23.04	-58.05	-239.03	1,256.81	1,411.57	1,388.52	23.05	61.244		
3,500.00	3,459.15	2,828.65	2,511.70	13.86	24.26	-58.16	-251.65	1,310.16	1,468.15	1,444.16	23.99	61.196		
3,600.00	3,556.87	2,911.07	2,573.24	14.35	25.49	-58.25	-264.26	1,363.51	1,524.74	1,499.81	24.94	61.140		
3,700.00	3,654.59	2,993.49	2,634.79	14.84	26.73	-58.35	-276.88	1,416.86	1,581.34	1,555.45	25.89	61.079		
3,800.00	3,752.31	3,075.91	2,696.34	15.34	27.96	-58.43	-289.49	1,470.21	1,637.93	1,611.08	26.85	61.014		
3,900.00	3,850.03	3,158.33	2,757.88	15.83	29.20	-58.51	-302.11	1,523.56	1,694.53	1,666.72	27.80	60.945		
4,000.00	3,947.75	3,240.75	2,819.43	16.33	30.44	-58.58	-314.73	1,576.91	1,751.13	1,722.36	28.77	60.876		
4,100.00	4,045.47	3,323.17	2,880.98	16.83	31.68	-58.65	-327.34	1,630.26	1,807.73	1,778.00	29.73	60.804		
4,200.00	4,143.19	3,405.59	2,942.52	17.32	32.92	-58.71	-339.96	1,683.61	1,864.33	1,833.63	30.70	60.733		
4,300.00	4,240.91	3,488.02	3,004.07	17.82	34.16	-58.78	-352.57	1,736.96	1,920.93	1,889.26	31.67	60.661		
4,400.00	4,338.63	3,570.44	3,065.61	18.32	35.41	-58.83	-365.19	1,790.31	1,977.54	1,944.90	32.64	60.589		
4,500.00	4,436.35	3,652.86	3,127.16	18.82	36.65	-58.89	-377.80	1,843.66	2,034.14	2,000.53	33.61	60.518		
4,600.00	4,534.07	3,735.28	3,188.71	19.33	37.90	-58.94	-390.42	1,897.01	2,090.75	2,056.16	34.59	60.447		
4,700.00	4,631.79	3,817.70	3,250.25	19.83	39.15	-58.99	-403.04	1,950.36	2,147.36	2,111.79	35.57	60.378		
4,800.00	4,729.51	3,900.12	3,311.80	20.33	40.40	-59.03	-415.65	2,003.71	2,203.97	2,167.42	36.54	60.309		
4,900.00	4,827.23	3,982.54	3,373.35	20.83	41.65	-59.08	-428.27	2,057.06	2,260.58	2,223.05	37.53	60.242		
5,000.00	4,924.95	4,064.97	3,434.89	21.34	42.90	-59.12	-440.88	2,110.41	2,317.19	2,278.68	38.51	60.175		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,147.39	3,496.44	21.84	44.15	-59.16	-453.50	2,163.76	2,373.80	2,334.31	39.49	60.110		
5,200.00	5,120.39	4,229.81	3,557.98	22.35	45.40	-59.20	-466.11	2,217.11	2,430.42	2,389.94	40.48	60.046		
5,300.00	5,218.11	4,312.23	3,619.53	22.85	46.65	-59.23	-478.73	2,270.46	2,487.03	2,445.57	41.46	59.984		
5,400.00	5,315.83	4,405.35	3,681.08	23.36	48.06	-59.27	-491.35	2,323.81	2,543.64	2,501.12	42.52	59.818		
5,500.00	5,413.55	4,477.07	3,742.62	23.86	49.15	-59.30	-503.96	2,377.16	2,600.26	2,556.82	43.44	59.862		
5,600.00	5,511.27	4,559.49	3,804.17	24.37	50.40	-59.33	-516.58	2,430.50	2,656.87	2,612.45	44.43	59.803		
5,700.00	5,608.99	4,641.91	3,865.72	24.88	51.66	-59.36	-529.19	2,483.85	2,713.49	2,668.07	45.42	59.745		
5,800.00	5,706.71	4,724.34	3,927.26	25.38	52.91	-59.39	-541.81	2,537.20	2,770.11	2,723.70	46.41	59.689		
5,900.00	5,804.43	4,806.76	3,988.81	25.89	54.16	-59.42	-554.43	2,590.55	2,826.72	2,779.32	47.40	59.633		
6,000.00	5,902.15	4,889.18	4,050.35	26.40	55.42	-59.44	-567.04	2,643.90	2,883.34	2,834.95	48.40	59.579		
6,100.00	5,999.87	4,971.60	4,111.90	26.91	56.67	-59.47	-579.66	2,697.25	2,939.96	2,890.57	49.39	59.526		
6,200.00	6,097.59	5,054.02	4,173.45	27.42	57.93	-59.50	-592.27	2,750.60	2,996.58	2,946.19	50.38	59.474		
6,300.00	6,195.30	5,136.44	4,234.99	27.92	59.18	-59.52	-604.89	2,803.95	3,053.19	3,001.81	51.38	59.423		
6,400.00	6,293.02	5,218.86	4,296.54	28.43	60.44	-59.54	-617.50	2,857.30	3,109.81	3,057.44	52.38	59.373		
6,500.00	6,390.74	5,301.29	4,358.08	28.94	61.69	-59.56	-630.12	2,910.65	3,166.43	3,113.06	53.38	59.324		
6,600.00	6,488.46	5,383.71	4,419.63	29.45	62.95	-59.59	-642.74	2,964.00	3,223.05	3,168.68	54.37	59.276		
6,638.14	6,525.73	5,415.14	4,443.10	29.64	63.42	-59.59	-647.55	2,984.35	3,244.65	3,189.89	54.75	59.258		
6,700.00	6,586.32	5,465.94	4,481.04	29.95	64.20	-60.34	-655.32	3,017.23	3,279.95	3,224.59	55.36	59.246		
6,800.00	6,684.79	5,547.21	4,541.73	30.42	65.44	-61.54	-667.76	3,069.84	3,338.15	3,281.86	56.29	59.303		
6,900.00	6,783.81	5,627.36	4,601.58	30.85	66.66	-62.74	-680.03	3,121.72	3,397.70	3,340.55	57.15	59.448		
7,000.00	6,883.25	5,706.29	4,660.51	31.24	67.86	-63.93	-692.11	3,172.80	3,458.55	3,400.59	57.95	59.679		
7,100.00	6,983.00	5,783.90	4,718.46	31.60	69.04	-65.14	-703.99	3,223.04	3,520.63	3,461.94	58.69	59.991		
7,200.00	7,082.93	5,860.09	4,775.36	31.92	70.20	-66.34	-715.65	3,272.35	3,583.90	3,524.54	59.36	60.380		
7,251.07	7,134.00	5,901.57	4,803.99	32.06	70.84	84.33	-721.52	3,297.17	3,616.65	3,556.96	59.69	60.590		
7,300.00	7,182.93	5,934.96	4,831.27	32.19	71.35	84.50	-727.11	3,320.82	3,648.18	3,588.22	59.96	60.847		
7,351.07	7,234.00	5,973.10	4,859.75	32.32	71.93	84.66	-732.95	3,345.50	3,681.11	3,620.85	60.26	61.089		
7,400.00	7,282.87	6,009.92	4,887.24	32.47	72.49	-90.73	-738.59	3,369.33	3,712.78	3,652.19	60.59	61.279		
7,450.00	7,332.44	6,047.94	4,915.63	32.67	73.07	-86.45	-744.41	3,393.95	3,745.18	3,684.18	61.00	61.394		
7,500.00	7,381.26	6,086.08	4,944.11	32.90	73.65	-82.31	-750.24	3,418.63	3,777.37	3,715.89	61.49	61.433		
7,550.00	7,428.96	6,124.04	4,972.46	33.18	74.23	-78.39	-756.05	3,443.20	3,809.13	3,747.09	62.04	61.396		
7,600.00	7,475.17	6,162.26	5,000.81	33.48	74.81	-84.46	-761.87	3,468.77	3,839.64	3,777.60	62.64	61.396		
7,650.00	7,519.55	6,201.69	5,029.06	33.78	75.39	-89.95	-767.69	3,494.34	3,869.15	3,807.11	63.24	61.396		
7,700.00	7,561.76	6,242.17	5,057.31	34.08	75.97	-89.95	-773.51	3,519.91	3,898.66	3,836.62	63.84	61.396		
7,750.00	7,601.47	6,282.65	5,085.56	34.38	76.55	-89.96	-779.33	3,545.68	3,928.17	3,866.13	64.44	61.396		
7,800.00	7,638.39	6,323.13	5,113.81	34.68	77.13	-89.96	-785.15	3,571.29	3,957.68	3,895.64	65.04	61.396		
7,850.00	7,672.23	6,363.61	5,142.06	34.98	77.71	-89.96	-790.97	3,596.86	3,987.19	3,925.15	65.64	61.396		
7,900.00	7,702.74	6,404.09	5,170.31	35.28	78.29	-89.97	-796.79	3,622.44	4,016.70	3,954.71	66.24	61.396		
7,950.00	7,729.67	6,444.57	5,198.56	35.58	78.87	-89.97	-802.61	3,648.02	4,046.21	3,984.22	66.84	61.396		
8,000.00	7,752.84	6,485.05	5,226.81	35.88	79.45	-89.98	-808.43	3,673.59	4,075.72	4,013.73	67.44	61.396		
8,050.00	7,772.06	6,525.53	5,255.06	36.18	80.03	-89.98	-814.25	3,700.17	4,105.23	4,043.24	68.04	61.396		
8,100.00	7,787.18	6,565.01	5,283.31	36.48	80.61	-89.99	-820.07	3,725.75	4,134.74	4,072.75	68.64	61.396		
8,150.00	7,798.10	6,604.49	5,311.56	36.78	81.19	-89.99	-825.89	3,751.32	4,164.25	4,102.26	69.24	61.396		
8,200.00	7,804.72	6,643.97	5,339.81	37.08	81.77	-89.99	-831.71	3,776.89	4,193.76	4,131.77	69.84	61.396		
8,251.15	7,807.00	6,683.45	5,368.06	37.38	82.35	-90.00	-837.53	3,802.37	4,223.27	4,161.28	70.44	61.396		
8,300.00	7,807.00	6,722.93	5,396.31	37.68	82.93	-90.00	-843.35	3,827.94	4,252.78	4,190.79	71.04	61.396		
8,400.00	7,807.00	6,762.41	5,424.56	37.98	83.51	-90.00	-849.17	3,853.51	4,282.29	4,220.30	71.64	61.396		
8,500.00	7,807.00	6,801.89	5,452.81	38.28	84.09	-90.00	-854.99	3,879.08	4,311.80	4,249.81	72.24	61.396		
8,600.00	7,806.99	6,841.37	5,481.06	38.58	84.67	-90.00	-860.81	3,904.66	4,341.31	4,279.32	72.84	61.396		
8,700.00	7,806.99	6,880.85	5,509.31	38.88	85.25	-90.00	-866.63	3,930.23	4,370.82	4,308.83	73.44	61.396		
8,800.00	7,806.99	6,920.33	5,537.56	39.18	85.83	-90.00	-872.45	3,955.80	4,400.33	4,338.34	74.04	61.396		
8,900.00	7,806.99	6,959.81	5,565.81	39.48	86.41	-90.00	-878.27	3,981.37	4,429.84	4,367.85	74.64	61.396		
9,000.00	7,806.99	7,000.00	5,594.06	39.78	86.99	-90.00	-884.09	4,006.94	4,459.35	4,397.36	75.24	61.396		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	10,403.68	7,806.99	51.38	101.86	-90.00	-2,393.15	4,379.90	3,826.89	3,719.46	107.43	35.621		
9,200.00	7,806.99	10,503.68	7,806.99	52.84	102.46	-90.00	-2,493.14	4,380.50	3,826.91	3,716.68	110.22	34.720		
9,300.00	7,806.98	10,603.69	7,806.98	54.32	103.08	-90.00	-2,593.14	4,381.11	3,826.92	3,713.87	113.05	33.851		
9,400.00	7,806.98	10,703.69	7,806.98	55.82	103.73	-90.00	-2,693.13	4,381.72	3,826.93	3,711.01	115.92	33.013		
9,500.00	7,806.98	10,803.69	7,806.98	57.34	104.39	-90.00	-2,793.13	4,382.33	3,826.94	3,708.12	118.83	32.206		
9,600.00	7,806.98	10,903.70	7,806.98	58.87	105.08	-90.00	-2,893.12	4,382.94	3,826.96	3,705.19	121.77	31.428		
9,700.00	7,806.98	11,003.70	7,806.98	60.41	105.78	-90.00	-2,993.12	4,383.54	3,826.97	3,702.23	124.74	30.680		
9,800.00	7,806.98	11,103.70	7,806.98	61.96	106.51	-90.00	-3,093.11	4,384.15	3,826.98	3,699.24	127.74	29.960		
9,900.00	7,806.97	11,203.71	7,806.98	63.53	107.26	-90.00	-3,193.11	4,384.76	3,826.99	3,696.23	130.76	29.266		
10,000.00	7,806.97	11,303.71	7,806.98	65.10	108.04	-90.00	-3,293.10	4,385.37	3,827.01	3,693.19	133.82	28.599		
10,100.00	7,806.97	11,403.71	7,806.97	66.69	108.83	-90.00	-3,393.10	4,385.98	3,827.02	3,690.13	136.89	27.957		
10,200.00	7,806.97	11,503.72	7,806.97	68.29	109.65	-90.00	-3,493.09	4,386.59	3,827.03	3,687.05	139.99	27.338		
10,300.00	7,806.97	11,603.72	7,806.97	69.89	110.48	-90.00	-3,593.09	4,387.20	3,827.05	3,683.94	143.11	26.743		
10,400.00	7,806.97	11,703.72	7,806.97	71.50	111.34	-90.00	-3,693.08	4,387.81	3,827.06	3,680.82	146.24	26.169		
10,500.00	7,806.97	11,803.73	7,806.97	73.12	112.22	-90.00	-3,793.08	4,388.42	3,827.07	3,677.67	149.40	25.617		
10,600.00	7,806.96	11,903.73	7,806.97	74.75	113.12	-90.00	-3,893.07	4,389.02	3,827.09	3,674.52	152.57	25.084		
10,700.00	7,806.96	12,003.73	7,806.97	76.38	114.04	-90.00	-3,993.07	4,389.63	3,827.10	3,671.34	155.76	24.571		
10,800.00	7,806.96	12,103.74	7,806.97	78.02	114.98	-90.00	-4,093.06	4,390.24	3,827.11	3,668.15	158.96	24.076		
10,900.00	7,806.96	12,203.74	7,806.97	79.66	115.94	-90.00	-4,193.06	4,390.85	3,827.13	3,664.95	162.18	23.598		
11,000.00	7,806.96	12,303.74	7,806.97	81.31	116.92	-90.00	-4,293.05	4,391.46	3,827.14	3,661.73	165.41	23.137		
11,100.00	7,806.96	12,403.75	7,806.96	82.97	117.92	-90.00	-4,393.05	4,392.07	3,827.15	3,658.50	168.65	22.692		
11,200.00	7,806.95	12,503.75	7,806.96	84.63	118.94	-90.00	-4,493.04	4,392.68	3,827.17	3,655.26	171.91	22.263		
11,300.00	7,806.95	12,603.75	7,806.96	86.29	119.97	-90.00	-4,593.04	4,393.29	3,827.18	3,652.01	175.18	21.848		
11,400.00	7,806.95	12,703.76	7,806.96	87.96	121.03	-90.00	-4,693.03	4,393.90	3,827.20	3,648.74	178.45	21.447		
11,500.00	7,806.95	12,803.76	7,806.96	89.64	122.11	-90.00	-4,793.03	4,394.51	3,827.21	3,645.47	181.74	21.059		
11,600.00	7,806.95	12,903.76	7,806.96	91.31	123.20	-90.00	-4,893.02	4,395.12	3,827.23	3,642.19	185.04	20.684		
11,700.00	7,806.95	13,003.77	7,806.96	92.99	124.31	-90.00	-4,993.02	4,395.73	3,827.24	3,638.90	188.34	20.321		
11,800.00	7,806.95	13,103.77	7,806.96	94.68	125.43	-90.00	-5,093.01	4,396.34	3,827.25	3,635.60	191.66	19.969		
11,900.00	7,806.94	13,203.77	7,806.96	96.36	126.58	-90.00	-5,193.01	4,396.95	3,827.27	3,632.29	194.98	19.629		
12,000.00	7,806.94	13,303.78	7,806.96	98.05	127.74	-90.00	-5,293.00	4,397.56	3,827.28	3,628.98	198.31	19.300		
12,100.00	7,806.94	13,403.78	7,806.96	99.74	128.91	-90.00	-5,392.99	4,398.17	3,827.30	3,625.65	201.64	18.980		
12,200.00	7,806.94	13,503.78	7,806.96	101.44	130.10	-90.00	-5,492.99	4,398.78	3,827.31	3,622.32	204.99	18.671		
12,300.00	7,806.94	13,603.78	7,806.96	103.14	131.31	-90.00	-5,592.98	4,399.39	3,827.33	3,618.99	208.34	18.371		
12,400.00	7,806.94	13,703.79	7,806.96	104.84	132.53	-90.00	-5,692.98	4,400.01	3,827.34	3,615.64	211.70	18.079		
12,500.00	7,806.93	13,803.79	7,806.96	106.54	133.76	-90.00	-5,792.97	4,400.62	3,827.36	3,612.30	215.06	17.797		
12,600.00	7,806.93	13,903.79	7,806.96	108.25	135.01	-90.00	-5,892.97	4,401.23	3,827.37	3,608.94	218.43	17.522		
12,700.00	7,806.93	14,003.80	7,806.96	109.95	136.28	-90.00	-5,992.96	4,401.84	3,827.39	3,605.58	221.80	17.256		
12,800.00	7,806.93	14,103.80	7,806.96	111.66	137.55	-90.00	-6,092.96	4,402.45	3,827.40	3,602.22	225.18	16.997		
12,900.00	7,806.93	14,203.80	7,806.96	113.37	138.84	-90.00	-6,192.95	4,403.06	3,827.42	3,598.85	228.57	16.745		
13,000.00	7,806.93	14,303.81	7,806.96	115.09	140.14	-90.00	-6,292.95	4,403.67	3,827.43	3,595.48	231.96	16.501		
13,100.00	7,806.93	14,403.81	7,806.96	116.80	141.46	-90.00	-6,392.94	4,404.28	3,827.45	3,592.10	235.35	16.263		
13,200.00	7,806.92	14,503.81	7,806.96	118.52	142.78	-90.00	-6,492.94	4,404.89	3,827.46	3,588.71	238.75	16.031		
13,300.00	7,806.92	14,603.82	7,806.96	120.24	144.12	-90.00	-6,592.93	4,405.51	3,827.48	3,585.33	242.15	15.806		
13,400.00	7,806.92	14,703.82	7,806.96	121.96	145.47	-90.00	-6,692.93	4,406.12	3,827.50	3,581.94	245.56	15.587		
13,500.00	7,806.92	14,803.82	7,806.96	123.68	146.83	-90.00	-6,792.92	4,406.73	3,827.51	3,578.54	248.97	15.373		
13,600.00	7,806.92	14,903.83	7,806.96	125.40	148.20	-90.00	-6,892.92	4,407.34	3,827.53	3,575.14	252.39	15.165		
13,700.00	7,806.92	15,003.83	7,806.96	127.12	149.57	-90.00	-6,992.91	4,407.95	3,827.54	3,571.74	255.80	14.963		
13,800.00	7,806.91	15,103.83	7,806.96	128.85	150.96	-90.00	-7,092.91	4,408.56	3,827.56	3,568.33	259.23	14.765		
13,900.00	7,806.91	15,203.84	7,806.96	130.58	152.36	-90.00	-7,192.90	4,409.18	3,827.58	3,564.93	262.65	14.573		
14,000.00	7,806.91	15,303.84	7,806.96	132.30	153.77	-90.00	-7,292.90	4,409.79	3,827.59	3,561.51	266.08	14.385		
14,100.00	7,806.91	15,403.84	7,806.96	134.03	155.19	-90.00	-7,392.89	4,410.40	3,827.61	3,558.10	269.51	14.202		
14,200.00	7,806.91	15,503.85	7,806.96	135.76	156.61	-90.00	-7,492.89	4,411.01	3,827.63	3,554.68	272.94	14.024		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
14,300.00	7,806.91	15,603.85	7,806.96	137.50	158.05	-90.00	-7,592.88	4,411.63	3,827.64	3,551.26	276.38	13.849		
14,400.00	7,806.91	15,703.85	7,806.96	139.23	159.49	-90.00	-7,692.88	4,412.24	3,827.66	3,547.84	279.82	13.679		
14,500.00	7,806.90	15,803.86	7,806.96	140.96	160.94	-90.00	-7,792.87	4,412.85	3,827.68	3,544.41	283.26	13.513		
14,600.00	7,806.90	15,903.86	7,806.96	142.70	162.40	-90.00	-7,892.87	4,413.46	3,827.69	3,540.99	286.71	13.351		
14,700.00	7,806.90	16,003.86	7,806.96	144.43	163.87	-90.00	-7,992.86	4,414.08	3,827.71	3,537.56	290.15	13.192		
14,800.00	7,806.90	16,103.87	7,806.96	146.17	165.34	-90.00	-8,092.86	4,414.69	3,827.73	3,534.12	293.60	13.037		
14,900.00	7,806.90	16,203.87	7,806.96	147.91	166.82	-90.00	-8,192.85	4,415.30	3,827.74	3,530.69	297.05	12.886		
15,000.00	7,806.90	16,303.87	7,806.96	149.64	168.30	-90.00	-8,292.84	4,415.92	3,827.76	3,527.25	300.51	12.738		
15,100.00	7,806.89	16,403.88	7,806.96	151.38	169.80	-90.00	-8,392.84	4,416.53	3,827.78	3,523.81	303.96	12.593		
15,200.00	7,806.89	16,503.88	7,806.97	153.12	171.30	-90.00	-8,492.83	4,417.14	3,827.80	3,520.37	307.42	12.451		
15,300.00	7,806.89	16,603.88	7,806.97	154.86	172.80	-90.00	-8,592.83	4,417.75	3,827.81	3,516.93	310.88	12.313		
15,400.00	7,806.89	16,703.89	7,806.97	156.60	174.31	-90.00	-8,692.82	4,418.37	3,827.83	3,513.49	314.35	12.177		
15,500.00	7,806.89	16,803.89	7,806.97	158.35	175.83	-90.00	-8,792.82	4,418.98	3,827.85	3,510.04	317.81	12.044		
15,600.00	7,806.89	16,903.89	7,806.97	160.09	177.36	-90.00	-8,892.81	4,419.60	3,827.87	3,506.59	321.27	11.915		
15,700.00	7,806.89	17,003.90	7,806.97	161.83	178.88	-90.00	-8,992.81	4,420.21	3,827.88	3,503.14	324.74	11.787		
15,800.00	7,806.88	17,103.90	7,806.97	163.57	180.42	-90.00	-9,092.80	4,420.82	3,827.90	3,499.69	328.21	11.663		
15,900.00	7,806.88	17,203.90	7,806.97	165.32	181.96	-90.00	-9,192.80	4,421.44	3,827.92	3,496.24	331.68	11.541		
16,000.00	7,806.88	17,303.91	7,806.97	167.06	183.50	-90.00	-9,292.79	4,422.05	3,827.94	3,492.78	335.15	11.421		
16,100.00	7,806.88	17,403.91	7,806.97	168.81	185.05	-90.00	-9,392.79	4,422.66	3,827.96	3,489.33	338.63	11.304		
16,200.00	7,806.88	17,503.91	7,806.98	170.56	186.61	-90.00	-9,492.78	4,423.28	3,827.97	3,485.87	342.10	11.190		
16,300.00	7,806.88	17,603.92	7,806.98	172.30	188.16	-90.00	-9,592.78	4,423.89	3,827.99	3,482.41	345.58	11.077		
16,400.00	7,806.87	17,703.92	7,806.98	174.05	189.73	-90.00	-9,692.77	4,424.51	3,828.01	3,478.95	349.06	10.967		
16,500.00	7,806.87	17,803.92	7,806.98	175.80	191.29	-90.00	-9,792.77	4,425.12	3,828.03	3,475.49	352.54	10.858		
16,600.00	7,806.87	17,903.93	7,806.98	177.55	192.87	-90.00	-9,892.76	4,425.73	3,828.05	3,472.03	356.02	10.752		
16,700.00	7,806.87	18,003.93	7,806.98	179.30	194.44	-90.00	-9,992.76	4,426.35	3,828.07	3,468.57	359.50	10.648		
16,800.00	7,806.87	18,103.93	7,806.98	181.04	196.02	-90.00	-10,092.75	4,426.96	3,828.09	3,465.10	362.98	10.546		
16,900.00	7,806.87	18,203.94	7,806.98	182.79	197.61	-90.00	-10,192.75	4,427.58	3,828.10	3,461.64	366.47	10.446		
17,000.00	7,806.87	18,303.94	7,806.99	184.54	199.19	-90.00	-10,292.74	4,428.19	3,828.12	3,458.17	369.95	10.348		
17,100.00	7,806.86	18,403.94	7,806.99	186.30	200.78	-90.00	-10,392.74	4,428.81	3,828.14	3,454.70	373.44	10.251		
17,200.00	7,806.86	18,503.95	7,806.99	188.05	202.38	-90.00	-10,492.73	4,429.42	3,828.16	3,451.23	376.93	10.156		
17,300.00	7,806.86	18,603.95	7,806.99	189.80	203.98	-90.00	-10,592.73	4,430.04	3,828.18	3,447.76	380.42	10.063		
17,400.00	7,806.86	18,703.95	7,806.99	191.55	205.58	-90.00	-10,692.72	4,430.65	3,828.20	3,444.29	383.91	9.972		
17,500.00	7,806.86	18,803.96	7,806.99	193.30	207.18	-90.00	-10,792.72	4,431.27	3,828.22	3,440.82	387.40	9.882		
17,600.00	7,806.86	18,903.96	7,806.99	195.06	208.79	-90.00	-10,892.71	4,431.88	3,828.24	3,437.35	390.89	9.794		
17,700.00	7,806.85	19,003.96	7,807.00	196.81	210.40	-90.00	-10,992.71	4,432.50	3,828.26	3,433.87	394.38	9.707		
17,800.00	7,806.85	19,103.97	7,807.00	198.56	212.01	-90.00	-11,092.70	4,433.11	3,828.28	3,430.40	397.88	9.622		
17,898.35	7,807.00	19,194.39	7,807.00	200.29	213.48	-90.00	-11,191.05	4,433.72	3,828.29	3,427.11	401.18	9.543 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-1.50	269.92	269.92					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-1.50	269.92	269.92	269.65	0.27	1,003.976	CC, ES	
200.00	200.00	191.53	191.52	0.49	0.46	90.38	-1.82	271.35	271.49	270.53	0.96	283.613		
300.00	300.00	282.88	282.75	0.85	0.79	90.57	-2.76	275.62	276.17	274.52	1.65	167.680		
400.00	400.00	373.85	373.44	1.21	1.13	90.87	-4.31	282.69	283.97	281.63	2.34	121.547		
500.00	500.00	464.28	463.30	1.57	1.48	91.27	-6.47	292.51	294.87	291.85	3.02	97.520		
600.00	600.00	553.98	552.08	1.93	1.86	91.73	-9.21	304.98	308.86	305.15	3.71	83.303		
700.00	700.00	642.79	639.55	2.29	2.25	92.24	-12.52	319.99	325.89	321.50	4.39	74.291		
800.00	800.00	730.56	725.48	2.64	2.67	92.77	-16.35	337.42	345.94	340.88	5.06	68.373		
900.00	900.00	817.15	809.68	3.00	3.11	93.31	-20.68	357.13	368.95	363.23	5.73	64.445		
1,000.00	1,000.00	902.41	891.96	3.36	3.57	93.85	-25.48	378.96	394.88	388.50	6.38	61.892		
1,100.00	1,100.00	986.24	972.17	3.72	4.07	94.36	-30.71	402.74	423.65	416.63	7.03	60.299		
1,200.00	1,200.00	1,068.53	1,050.19	4.08	4.59	94.85	-36.33	428.30	455.20	447.53	7.67	59.386		
1,300.00	1,300.00	1,149.20	1,125.90	4.44	5.14	95.31	-42.31	455.48	489.45	481.16	8.29	59.022		
1,400.00	1,399.98	1,228.51	1,199.55	4.78	5.71	-55.07	-48.63	484.21	525.40	516.51	8.89	59.088		
1,500.00	1,499.84	1,306.79	1,271.41	5.11	6.32	-54.42	-55.29	514.52	562.04	552.57	9.47	59.343		
1,600.00	1,599.45	1,384.00	1,341.44	5.44	6.96	-53.98	-62.28	546.28	599.30	589.25	10.05	59.609		
1,700.00	1,698.70	1,460.13	1,409.60	5.79	7.63	-53.71	-69.56	579.38	637.15	626.51	10.64	59.864		
1,800.00	1,797.47	1,535.14	1,475.86	6.15	8.32	-53.58	-77.11	613.72	675.56	664.32	11.24	60.091		
1,900.00	1,895.62	1,609.04	1,540.21	6.53	9.05	-53.55	-84.91	649.20	714.52	702.66	11.86	60.267		
1,912.93	1,908.27	1,618.51	1,548.40	6.58	9.14	-53.55	-85.94	653.86	719.60	707.66	11.93	60.296		
2,000.00	1,993.35	1,681.65	1,602.51	6.93	9.80	-54.13	-92.92	685.62	754.74	742.25	12.49	60.438		
2,100.00	2,091.07	1,752.69	1,662.53	7.34	10.58	-54.72	-101.09	722.74	797.31	784.18	13.13	60.729		
2,200.00	2,188.79	1,822.14	1,720.28	7.77	11.37	-55.22	-109.37	760.42	842.14	828.37	13.77	61.156		
2,300.00	2,286.51	1,889.96	1,775.75	8.20	12.18	-55.65	-117.75	798.53	889.12	874.71	14.41	61.699		
2,400.00	2,384.23	1,956.14	1,828.97	8.65	13.01	-56.02	-126.20	836.94	938.17	923.12	15.05	62.340		
2,500.00	2,481.95	2,020.67	1,879.98	9.10	13.84	-56.33	-134.69	875.53	989.20	973.52	15.68	63.084		
2,600.00	2,579.67	2,083.54	1,928.81	9.56	14.69	-56.59	-143.19	914.21	1,042.11	1,025.80	16.31	63.911		
2,700.00	2,677.39	2,144.76	1,975.51	10.02	15.55	-56.81	-151.70	952.87	1,096.83	1,079.91	16.92	64.813		
2,800.00	2,775.11	2,200.00	2,016.92	10.49	16.33	-56.98	-159.55	988.58	1,153.29	1,135.82	17.47	66.006		
2,900.00	2,872.83	2,262.31	2,062.76	10.96	17.27	-57.14	-168.61	1,029.79	1,211.38	1,193.25	18.13	66.832		
3,000.00	2,970.55	2,331.50	2,112.81	11.44	18.32	-57.29	-178.87	1,076.46	1,270.85	1,251.97	18.88	67.323		
3,100.00	3,068.27	2,411.71	2,170.72	11.92	19.56	-57.45	-190.79	1,130.66	1,330.49	1,310.71	19.78	67.261		
3,200.00	3,165.99	2,508.08	2,228.63	12.40	21.05	-57.59	-202.71	1,184.86	1,390.15	1,369.35	20.80	66.838		
3,300.00	3,263.71	2,572.13	2,286.54	12.88	22.05	-57.72	-214.63	1,239.07	1,449.80	1,428.19	21.61	67.085		
3,400.00	3,361.43	2,652.35	2,344.46	13.37	23.30	-57.84	-226.55	1,293.27	1,509.47	1,486.93	22.54	66.981		
3,500.00	3,459.15	2,732.56	2,402.37	13.86	24.56	-57.96	-238.47	1,347.47	1,569.13	1,545.67	23.47	66.871		
3,600.00	3,556.87	2,812.77	2,460.28	14.35	25.83	-58.06	-250.39	1,401.68	1,628.80	1,604.40	24.40	66.756		
3,700.00	3,654.59	2,907.02	2,518.20	14.84	27.31	-58.16	-262.31	1,455.88	1,688.48	1,663.04	25.43	66.390		
3,800.00	3,752.31	2,973.19	2,576.11	15.34	28.36	-58.25	-274.23	1,510.08	1,748.15	1,721.87	26.28	66.520		
3,900.00	3,850.03	3,053.41	2,634.02	15.83	29.63	-58.33	-286.15	1,564.29	1,807.83	1,780.61	27.23	66.401		
4,000.00	3,947.75	3,133.62	2,691.93	16.33	30.90	-58.41	-298.07	1,618.49	1,867.51	1,839.34	28.17	66.283		
4,100.00	4,045.47	3,213.83	2,749.85	16.83	32.17	-58.49	-309.99	1,672.69	1,927.20	1,898.07	29.13	66.166		
4,200.00	4,143.19	3,294.04	2,807.76	17.32	33.45	-58.56	-321.92	1,726.90	1,986.88	1,956.80	30.08	66.051		
4,300.00	4,240.91	3,374.26	2,865.67	17.82	34.72	-58.62	-333.84	1,781.10	2,046.57	2,015.53	31.04	65.938		
4,400.00	4,338.63	3,454.47	2,923.59	18.32	36.00	-58.69	-345.76	1,835.30	2,106.26	2,074.26	32.00	65.826		
4,500.00	4,436.35	3,534.68	2,981.50	18.82	37.28	-58.74	-357.68	1,889.51	2,165.95	2,132.99	32.96	65.717		
4,600.00	4,534.07	3,614.89	3,039.41	19.33	38.56	-58.80	-369.60	1,943.71	2,225.64	2,191.72	33.92	65.611		
4,700.00	4,631.79	3,704.90	3,097.32	19.83	40.00	-58.85	-381.52	1,997.91	2,285.33	2,250.38	34.96	65.379		
4,800.00	4,729.51	3,775.32	3,155.24	20.33	41.12	-58.90	-393.44	2,052.12	2,345.03	2,309.18	35.85	65.405		
4,900.00	4,827.23	3,855.53	3,213.15	20.83	42.40	-58.95	-405.36	2,106.32	2,404.72	2,367.90	36.82	65.306		
5,000.00	4,924.95	3,935.74	3,271.06	21.34	43.69	-58.99	-417.28	2,160.52	2,464.42	2,426.63	37.79	65.209		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - COYOTE TRAILS 34S-20-16N - ORIGINAL WELLBORE - PROPOSAL 1		Offset Site Error:		0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis			Distance							Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
5,100.00	5,022.67	4,015.95	3,328.98	21.84	44.97	-59.04	-429.20	2,214.72	2,524.12	2,485.35	38.76	65.115					
5,200.00	5,120.39	4,103.84	3,386.89	22.35	46.38	-59.08	-441.12	2,268.93	2,583.82	2,544.03	39.79	64.935					
5,300.00	5,218.11	4,176.38	3,444.80	22.85	47.54	-59.12	-453.04	2,323.13	2,643.52	2,602.80	40.71	64.934					
5,400.00	5,315.83	4,256.59	3,502.71	23.36	48.82	-59.15	-464.96	2,377.33	2,703.22	2,661.53	41.69	64.847					
5,500.00	5,413.55	4,336.80	3,560.63	23.86	50.11	-59.19	-476.88	2,431.54	2,762.92	2,720.25	42.66	64.762					
5,600.00	5,511.27	4,417.01	3,618.54	24.37	51.39	-59.22	-488.80	2,485.74	2,822.62	2,778.98	43.64	64.679					
5,700.00	5,608.99	4,502.78	3,676.45	24.88	52.77	-59.26	-500.72	2,539.94	2,882.32	2,837.66	44.66	64.541					
5,800.00	5,706.71	4,577.44	3,734.37	25.38	53.96	-59.29	-512.64	2,594.15	2,942.02	2,896.42	45.60	64.519					
5,900.00	5,804.43	4,657.65	3,792.28	25.89	55.25	-59.32	-524.56	2,648.35	3,001.72	2,955.14	46.58	64.442					
6,000.00	5,902.15	4,737.86	3,850.19	26.40	56.54	-59.35	-536.48	2,702.55	3,061.43	3,013.87	47.56	64.367					
6,100.00	5,999.87	4,818.07	3,908.10	26.91	57.82	-59.38	-548.40	2,756.76	3,121.13	3,072.59	48.54	64.294					
6,200.00	6,097.59	4,901.72	3,966.02	27.42	59.17	-59.40	-560.32	2,810.96	3,180.84	3,131.28	49.55	64.191					
6,300.00	6,195.30	4,978.50	4,023.93	27.92	60.40	-59.43	-572.24	2,865.16	3,240.54	3,190.03	50.51	64.152					
6,400.00	6,293.02	5,058.71	4,081.84	28.43	61.69	-59.45	-584.16	2,919.37	3,300.25	3,248.75	51.50	64.084					
6,500.00	6,390.74	5,138.92	4,139.76	28.94	62.98	-59.48	-596.08	2,973.57	3,359.95	3,307.47	52.49	64.017					
6,600.00	6,488.46	5,219.13	4,197.67	29.45	64.26	-59.50	-608.00	3,027.77	3,419.66	3,366.18	53.47	63.952					
6,638.14	6,525.73	5,249.72	4,219.76	29.64	64.76	-59.51	-612.54	3,048.44	3,442.43	3,388.58	53.85	63.927					
6,700.00	6,586.32	5,300.85	4,255.44	29.95	65.58	-60.32	-619.89	3,081.84	3,479.63	3,425.17	54.46	63.892					
6,800.00	6,684.79	5,378.16	4,312.48	30.42	66.82	-61.63	-631.63	3,135.23	3,540.88	3,485.51	55.37	63.951					
6,900.00	6,783.81	5,455.99	4,368.68	30.85	68.07	-62.94	-643.20	3,187.83	3,603.43	3,547.21	56.22	64.091					
7,000.00	6,883.25	5,532.56	4,423.96	31.24	69.30	-64.26	-654.58	3,239.57	3,667.23	3,610.22	57.02	64.319					
7,100.00	6,983.00	5,607.77	4,478.26	31.60	70.51	-65.59	-665.75	3,290.39	3,732.22	3,674.47	57.74	64.634					
7,200.00	7,082.93	5,681.53	4,531.52	31.92	71.69	-66.93	-676.71	3,340.23	3,798.33	3,739.92	58.41	65.029					
7,251.07	7,134.00	5,718.60	4,558.29	32.06	72.29	83.68	-682.22	3,365.29	3,832.51	3,773.79	58.72	65.266					
7,300.00	7,182.93	5,753.93	4,583.79	32.19	72.86	83.84	-687.47	3,389.16	3,865.41	3,806.40	59.01	65.506					
7,351.07	7,234.00	5,790.80	4,610.41	32.32	73.45	84.00	-692.95	3,414.08	3,899.76	3,840.45	59.31	65.754					
7,400.00	7,282.87	5,826.41	4,636.12	32.47	74.02	-91.08	-698.24	3,438.14	3,932.79	3,873.15	59.64	65.947					
7,450.00	7,332.44	5,863.18	4,662.67	32.67	74.61	-86.46	-703.71	3,462.98	3,966.61	3,906.56	60.04	66.061					
7,500.00	7,381.26	5,900.06	4,689.30	32.90	75.21	-81.99	-709.19	3,487.91	4,000.23	3,939.71	60.52	66.095					
7,550.00	7,428.96	5,936.78	4,715.81	33.18	75.80	-77.76	-714.65	3,512.72	4,033.41	3,972.34	61.07	66.050					
7,600.00	7,475.17	5,973.05	4,742.00	33.48	76.38	-73.81	-720.04	3,537.23	4,065.91	4,004.24	61.67	65.927					
7,650.00	7,519.55	6,008.61	4,767.67	33.82	76.95	-70.19	-725.32	3,561.26	4,097.53	4,035.19	62.34	65.728					
7,700.00	7,561.76	6,043.17	4,792.62	34.20	77.51	-66.89	-730.46	3,584.61	4,128.06	4,064.99	63.07	65.456					
7,750.00	7,601.47	6,078.79	4,798.13	34.60	103.35	-89.94	-1,098.77	4,700.01	4,154.73	4,077.74	76.99	53.961					
7,800.00	7,638.39	6,114.15	4,792.78	35.04	103.47	-89.94	-1,130.31	4,700.35	4,154.89	4,077.11	77.78	53.418					
7,850.00	7,672.23	6,149.63	4,797.71	35.50	103.60	-89.95	-1,164.91	4,700.72	4,155.06	4,076.44	78.62	52.848					
7,900.00	7,702.74	6,185.24	4,792.68	35.99	103.74	-89.95	-1,202.36	4,701.13	4,155.25	4,075.73	79.52	52.257					
7,950.00	7,729.67	6,220.99	4,797.44	36.50	103.89	-89.96	-1,242.42	4,701.56	4,155.44	4,074.99	80.45	51.649					
8,000.00	7,752.84	6,256.90	4,792.76	37.04	104.04	-89.96	-1,284.83	4,702.01	4,155.65	4,074.21	81.44	51.029					
8,050.00	7,772.06	6,292.98	4,797.63	37.60	104.21	-89.97	-1,329.31	4,702.49	4,155.87	4,073.41	82.46	50.401					
8,100.00	7,787.18	6,328.22	4,792.30	38.17	104.38	-89.97	-1,375.56	4,702.99	4,156.09	4,072.59	83.51	49.770					
8,150.00	7,798.10	6,363.64	4,797.16	38.76	104.56	-89.98	-1,423.27	4,703.51	4,156.32	4,071.75	84.58	49.142					
8,200.00	7,804.72	6,399.25	4,792.89	39.36	104.74	-89.99	-1,472.08	4,704.03	4,156.56	4,070.89	85.67	48.520					
8,251.15	7,807.00	6,404.19	4,792.43	39.97	104.94	-89.99	-1,522.80	4,704.58	4,156.81	4,070.02	86.79	47.897					
8,300.00	7,807.00	6,453.03	4,797.00	40.56	105.13	-90.00	-1,571.63	4,705.11	4,157.04	4,069.17	87.87	47.306					
8,400.00	7,807.00	6,503.03	4,796.99	41.18	105.33	-90.00	-1,671.62	4,706.18	4,157.52	4,067.35	90.17	46.108					
8,500.00	7,807.00	6,553.03	4,796.99	41.80	105.53	-90.00	-1,771.61	4,707.26	4,158.01	4,065.47	92.54	44.932					
8,600.00	7,806.99	6,603.03	4,796.98	42.42	105.73	-90.00	-1,871.61	4,708.34	4,158.49	4,063.51	94.98	43.782					
8,700.00	7,806.99	6,653.03	4,796.98	43.04	105.93	-90.00	-1,971.61	4,709.42	4,158.97	4,061.48	97.49	42.660					
8,800.00	7,806.99	6,703.03	4,796.97	43.66	106.13	-90.00	-2,071.59	4,710.49	4,159.45	4,059.39	100.06	41.569					
8,900.00	7,806.99	6,753.03	4,796.97	44.28	106.33	-90.00	-2,171.59	4,711.57	4,159.93	4,057.24	102.69	40.509					
9,000.00	7,806.99	6,803.02	4,796.97	44.90	106.53	-90.00	-2,271.58	4,712.65	4,160.42	4,055.04	105.37	39.483					

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	10,553.02	7,806.96	51.38	108.87	-90.00	-2,371.57	4,713.73	4,160.90	4,052.79	108.10	38.490		
9,200.00	7,806.99	10,653.02	7,806.96	52.84	109.43	-90.00	-2,471.57	4,714.81	4,161.38	4,050.50	110.88	37.531		
9,300.00	7,806.98	10,753.02	7,806.95	54.32	110.00	-90.00	-2,571.56	4,715.88	4,161.86	4,048.16	113.70	36.604		
9,400.00	7,806.98	10,853.02	7,806.95	55.82	110.60	-90.00	-2,671.55	4,716.96	4,162.34	4,045.79	116.56	35.711		
9,500.00	7,806.98	10,953.02	7,806.94	57.34	111.21	-90.00	-2,771.55	4,718.04	4,162.83	4,043.38	119.45	34.850		
9,600.00	7,806.98	11,053.02	7,806.94	58.87	111.85	-90.00	-2,871.54	4,719.12	4,163.31	4,040.93	122.38	34.020		
9,700.00	7,806.98	11,153.02	7,806.94	60.41	112.50	-90.00	-2,971.53	4,720.19	4,163.79	4,038.45	125.34	33.221		
9,800.00	7,806.98	11,253.02	7,806.93	61.96	113.17	-90.00	-3,071.53	4,721.27	4,164.27	4,035.94	128.33	32.451		
9,900.00	7,806.97	11,353.02	7,806.93	63.53	113.87	-90.00	-3,171.52	4,722.35	4,164.75	4,033.41	131.34	31.709		
10,000.00	7,806.97	11,453.02	7,806.93	65.10	114.58	-90.00	-3,271.52	4,723.43	4,165.23	4,030.85	134.38	30.995		
10,100.00	7,806.97	11,553.02	7,806.92	66.69	115.32	-90.00	-3,371.51	4,724.50	4,165.72	4,028.27	137.45	30.307		
10,200.00	7,806.97	11,653.02	7,806.92	68.29	116.07	-90.00	-3,471.50	4,725.58	4,166.20	4,025.66	140.54	29.644		
10,300.00	7,806.97	11,753.02	7,806.92	69.89	116.84	-90.00	-3,571.50	4,726.66	4,166.68	4,023.03	143.65	29.006		
10,400.00	7,806.97	11,853.01	7,806.91	71.50	117.64	-90.00	-3,671.49	4,727.74	4,167.16	4,020.38	146.78	28.391		
10,500.00	7,806.97	11,953.01	7,806.91	73.12	118.45	-90.00	-3,771.48	4,728.82	4,167.64	4,017.72	149.92	27.798		
10,600.00	7,806.96	12,053.01	7,806.91	74.75	119.29	-90.00	-3,871.48	4,729.89	4,168.13	4,015.04	153.09	27.227		
10,700.00	7,806.96	12,153.01	7,806.91	76.38	120.14	-90.00	-3,971.47	4,730.97	4,168.61	4,012.34	156.27	26.676		
10,800.00	7,806.96	12,253.01	7,806.90	78.02	121.01	-90.00	-4,071.46	4,732.05	4,169.09	4,009.62	159.47	26.144		
10,900.00	7,806.96	12,353.01	7,806.90	79.66	121.91	-90.00	-4,171.46	4,733.13	4,169.57	4,006.89	162.68	25.631		
11,000.00	7,806.96	12,453.01	7,806.90	81.31	122.82	-90.00	-4,271.45	4,734.20	4,170.05	4,004.15	165.90	25.136		
11,100.00	7,806.96	12,553.01	7,806.90	82.97	123.75	-90.00	-4,371.44	4,735.28	4,170.53	4,001.40	169.14	24.658		
11,200.00	7,806.95	12,653.01	7,806.89	84.63	124.70	-90.00	-4,471.44	4,736.36	4,171.02	3,998.63	172.39	24.196		
11,300.00	7,806.95	12,753.01	7,806.89	86.29	125.67	-90.00	-4,571.43	4,737.44	4,171.50	3,995.85	175.65	23.749		
11,400.00	7,806.95	12,853.01	7,806.89	87.96	126.65	-90.00	-4,671.42	4,738.51	4,171.98	3,993.06	178.92	23.318		
11,500.00	7,806.95	12,953.01	7,806.89	89.64	127.66	-90.00	-4,771.42	4,739.59	4,172.46	3,990.26	182.20	22.900		
11,600.00	7,806.95	13,053.01	7,806.89	91.31	128.68	-90.00	-4,871.41	4,740.67	4,172.94	3,987.45	185.49	22.496		
11,700.00	7,806.95	13,153.00	7,806.89	92.99	129.72	-90.00	-4,971.40	4,741.75	4,173.42	3,984.63	188.79	22.106		
11,800.00	7,806.95	13,253.00	7,806.88	94.68	130.78	-90.00	-5,071.40	4,742.82	4,173.91	3,981.80	192.10	21.727		
11,900.00	7,806.94	13,353.00	7,806.88	96.36	131.85	-90.00	-5,171.39	4,743.90	4,174.39	3,978.97	195.42	21.361		
12,000.00	7,806.94	13,453.00	7,806.88	98.05	132.94	-90.00	-5,271.38	4,744.98	4,174.87	3,976.12	198.75	21.006		
12,100.00	7,806.94	13,553.00	7,806.88	99.74	134.05	-90.00	-5,371.38	4,746.06	4,175.35	3,973.27	202.08	20.662		
12,200.00	7,806.94	13,653.00	7,806.88	101.44	135.17	-90.00	-5,471.37	4,747.13	4,175.83	3,970.41	205.42	20.328		
12,300.00	7,806.94	13,753.00	7,806.88	103.14	136.31	-90.00	-5,571.36	4,748.21	4,176.31	3,967.55	208.77	20.005		
12,400.00	7,806.94	13,853.00	7,806.88	104.84	137.47	-90.00	-5,671.36	4,749.29	4,176.80	3,964.67	212.12	19.691		
12,500.00	7,806.93	13,953.00	7,806.88	106.54	138.63	-90.00	-5,771.35	4,750.36	4,177.28	3,961.80	215.48	19.386		
12,600.00	7,806.93	14,053.00	7,806.88	108.25	139.82	-90.00	-5,871.34	4,751.44	4,177.76	3,958.91	218.85	19.090		
12,700.00	7,806.93	14,153.00	7,806.88	109.95	141.02	-90.00	-5,971.34	4,752.52	4,178.24	3,956.02	222.22	18.802		
12,800.00	7,806.93	14,253.00	7,806.87	111.66	142.23	-90.00	-6,071.33	4,753.60	4,178.72	3,953.13	225.59	18.523		
12,900.00	7,806.93	14,353.00	7,806.87	113.37	143.46	-90.00	-6,171.32	4,754.67	4,179.20	3,950.23	228.98	18.252		
13,000.00	7,806.93	14,452.99	7,806.87	115.09	144.70	-90.00	-6,271.32	4,755.75	4,179.69	3,947.32	232.36	17.988		
13,100.00	7,806.93	14,552.99	7,806.87	116.80	145.95	-90.00	-6,371.31	4,756.83	4,180.17	3,944.41	235.75	17.731		
13,200.00	7,806.92	14,652.99	7,806.87	118.52	147.21	-90.00	-6,471.31	4,757.91	4,180.65	3,941.50	239.15	17.481		
13,300.00	7,806.92	14,752.99	7,806.87	120.24	148.49	-90.00	-6,571.30	4,758.98	4,181.13	3,938.58	242.55	17.238		
13,400.00	7,806.92	14,852.99	7,806.87	121.96	149.78	-90.00	-6,671.29	4,760.06	4,181.61	3,935.66	245.95	17.002		
13,500.00	7,806.92	14,952.99	7,806.87	123.68	151.08	-90.00	-6,771.29	4,761.14	4,182.09	3,932.73	249.36	16.771		
13,600.00	7,806.92	15,052.99	7,806.88	125.40	152.40	-90.00	-6,871.28	4,762.22	4,182.57	3,929.80	252.78	16.547		
13,700.00	7,806.92	15,152.99	7,806.88	127.12	153.72	-90.00	-6,971.27	4,763.29	4,183.06	3,926.86	256.19	16.328		
13,800.00	7,806.91	15,252.99	7,806.88	128.85	155.06	-90.00	-7,071.27	4,764.37	4,183.54	3,923.93	259.61	16.115		
13,900.00	7,806.91	15,352.99	7,806.88	130.58	156.40	-90.00	-7,171.26	4,765.45	4,184.02	3,920.98	263.03	15.907		
14,000.00	7,806.91	15,452.99	7,806.88	132.30	157.76	-90.00	-7,271.25	4,766.52	4,184.50	3,918.04	266.46	15.704		
14,100.00	7,806.91	15,552.99	7,806.88	134.03	159.12	-90.00	-7,371.25	4,767.60	4,184.98	3,915.09	269.89	15.506		
14,200.00	7,806.91	15,652.99	7,806.88	135.76	160.50	-90.00	-7,471.24	4,768.68	4,185.46	3,912.14	273.32	15.313		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
14,300.00	7,806.91	15,752.99	7,806.88	137.50	161.88	-90.00	-7,571.23	4,769.76	4,185.94	3,909.19	276.76	15.125		
14,400.00	7,806.91	15,852.98	7,806.88	139.23	163.28	-90.00	-7,671.23	4,770.83	4,186.43	3,906.23	280.19	14.941		
14,500.00	7,806.90	15,952.98	7,806.88	140.96	164.68	-90.00	-7,771.22	4,771.91	4,186.91	3,903.27	283.64	14.762		
14,600.00	7,806.90	16,052.98	7,806.89	142.70	166.09	-90.00	-7,871.21	4,772.99	4,187.39	3,900.31	287.08	14.586		
14,700.00	7,806.90	16,152.98	7,806.89	144.43	167.51	-90.00	-7,971.21	4,774.07	4,187.87	3,897.35	290.52	14.415		
14,800.00	7,806.90	16,252.98	7,806.89	146.17	168.94	-90.00	-8,071.20	4,775.14	4,188.35	3,894.38	293.97	14.247		
14,900.00	7,806.90	16,352.98	7,806.89	147.91	170.38	-90.00	-8,171.19	4,776.22	4,188.83	3,891.41	297.42	14.084		
15,000.00	7,806.90	16,452.98	7,806.89	149.64	171.82	-90.00	-8,271.19	4,777.30	4,189.31	3,888.44	300.88	13.924		
15,100.00	7,806.89	16,552.98	7,806.90	151.38	173.27	-90.00	-8,371.18	4,778.37	4,189.80	3,885.46	304.33	13.767		
15,200.00	7,806.89	16,652.98	7,806.90	153.12	174.73	-90.00	-8,471.17	4,779.45	4,190.28	3,882.49	307.79	13.614		
15,300.00	7,806.89	16,752.98	7,806.90	154.86	176.19	-90.00	-8,571.17	4,780.53	4,190.76	3,879.51	311.25	13.464		
15,400.00	7,806.89	16,852.98	7,806.90	156.60	177.67	-90.00	-8,671.16	4,781.61	4,191.24	3,876.53	314.71	13.318		
15,500.00	7,806.89	16,952.98	7,806.90	158.35	179.15	-90.00	-8,771.15	4,782.68	4,191.72	3,873.55	318.17	13.174		
15,600.00	7,806.89	17,052.98	7,806.91	160.09	180.63	-90.00	-8,871.15	4,783.76	4,192.20	3,870.57	321.64	13.034		
15,700.00	7,806.89	17,152.97	7,806.91	161.83	182.12	-90.00	-8,971.14	4,784.84	4,192.68	3,867.58	325.10	12.896		
15,800.00	7,806.88	17,252.97	7,806.91	163.57	183.62	-90.00	-9,071.13	4,785.91	4,193.16	3,864.59	328.57	12.762		
15,900.00	7,806.88	17,352.97	7,806.92	165.32	185.12	-90.00	-9,171.13	4,786.99	4,193.65	3,861.60	332.04	12.630		
16,000.00	7,806.88	17,452.97	7,806.92	167.06	186.63	-90.00	-9,271.12	4,788.07	4,194.13	3,858.61	335.51	12.501		
16,100.00	7,806.88	17,552.97	7,806.92	168.81	188.15	-90.00	-9,371.12	4,789.15	4,194.61	3,855.62	338.99	12.374		
16,200.00	7,806.88	17,652.97	7,806.93	170.56	189.67	-90.00	-9,471.11	4,790.22	4,195.09	3,852.63	342.46	12.250		
16,300.00	7,806.88	17,752.97	7,806.93	172.30	191.19	-90.00	-9,571.10	4,791.30	4,195.57	3,849.63	345.94	12.128		
16,400.00	7,806.87	17,852.97	7,806.93	174.05	192.72	-90.00	-9,671.10	4,792.38	4,196.05	3,846.64	349.42	12.009		
16,500.00	7,806.87	17,952.97	7,806.94	175.80	194.26	-90.00	-9,771.09	4,793.45	4,196.53	3,843.64	352.89	11.892		
16,600.00	7,806.87	18,052.97	7,806.94	177.55	195.80	-90.00	-9,871.08	4,794.53	4,197.01	3,840.64	356.37	11.777		
16,700.00	7,806.87	18,152.97	7,806.94	179.30	197.35	-90.00	-9,971.08	4,795.61	4,197.50	3,837.64	359.86	11.664		
16,800.00	7,806.87	18,252.97	7,806.95	181.04	198.90	-90.00	-10,071.07	4,796.68	4,197.98	3,834.64	363.34	11.554		
16,900.00	7,806.87	18,352.97	7,806.95	182.79	200.45	-90.00	-10,171.06	4,797.76	4,198.46	3,831.63	366.82	11.445		
17,000.00	7,806.87	18,452.96	7,806.96	184.54	202.01	-90.00	-10,271.06	4,798.84	4,198.94	3,828.63	370.31	11.339		
17,100.00	7,806.86	18,552.96	7,806.96	186.30	203.57	-90.00	-10,371.05	4,799.92	4,199.42	3,825.62	373.80	11.235		
17,200.00	7,806.86	18,652.96	7,806.96	188.05	205.14	-90.00	-10,471.04	4,800.99	4,199.90	3,822.62	377.28	11.132		
17,300.00	7,806.86	18,752.96	7,806.97	189.80	206.71	-90.00	-10,571.04	4,802.07	4,200.38	3,819.61	380.77	11.031		
17,400.00	7,806.86	18,852.96	7,806.97	191.55	208.29	-90.00	-10,671.03	4,803.15	4,200.86	3,816.60	384.26	10.932		
17,500.00	7,806.86	18,952.96	7,806.98	193.30	209.87	-90.00	-10,771.02	4,804.22	4,201.34	3,813.59	387.75	10.835		
17,600.00	7,806.86	19,052.96	7,806.98	195.06	211.45	-90.00	-10,871.02	4,805.30	4,201.83	3,810.58	391.25	10.740		
17,700.00	7,806.85	19,152.96	7,806.99	196.81	213.04	-90.00	-10,971.01	4,806.38	4,202.31	3,807.57	394.74	10.646		
17,800.00	7,806.85	19,252.96	7,806.99	198.56	214.63	-90.00	-11,071.00	4,807.45	4,202.79	3,804.55	398.23	10.554		
17,898.35	7,807.00	19,351.31	7,807.00	200.29	216.19	-90.00	-11,169.35	4,808.51	4,203.26	3,801.58	401.67	10.464 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.70	125.96	125.96	122.11	3.85	32.687		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.70	125.96	125.96	121.39	4.57	27.560		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.70	125.96	125.96	120.67	5.29	23.823		
900.00	900.00	900.00	900.00	3.00	3.00	90.32	-0.70	125.96	125.96	119.96	6.00	20.978 CC, ES		
1,000.00	1,000.00	996.35	996.33	3.36	3.34	90.70	-1.56	127.34	127.40	120.70	6.69	19.032		
1,100.00	1,100.00	1,092.49	1,092.34	3.72	3.66	91.79	-4.12	131.45	131.74	124.37	7.37	17.876		
1,200.00	1,200.00	1,188.19	1,187.70	4.08	3.99	93.46	-8.35	138.26	139.06	131.02	8.04	17.293		
1,300.00	1,300.00	1,283.25	1,282.11	4.44	4.33	95.50	-14.22	147.70	149.46	140.75	8.71	17.164		
1,400.00	1,399.98	1,377.69	1,375.48	4.78	4.69	-53.84	-21.69	159.70	162.00	152.65	9.35	17.328		
1,500.00	1,499.84	1,471.65	1,467.86	5.11	5.06	-52.58	-30.72	174.23	175.58	165.61	9.97	17.608		
1,600.00	1,599.45	1,565.09	1,559.14	5.44	5.45	-51.90	-41.29	191.23	190.07	179.47	10.59	17.942		
1,700.00	1,698.70	1,658.00	1,649.19	5.79	5.87	-51.67	-53.35	210.62	205.40	194.17	11.22	18.299		
1,800.00	1,797.47	1,750.34	1,737.91	6.15	6.32	-51.79	-66.86	232.35	221.54	209.67	11.87	18.668		
1,900.00	1,895.62	1,843.50	1,826.56	6.53	6.81	-52.21	-81.98	256.66	238.42	225.87	12.55	19.000		
1,912.93	1,908.27	1,856.24	1,838.64	6.58	6.88	-52.30	-84.11	260.08	240.57	227.93	12.65	19.021		
2,000.00	1,993.35	1,942.04	1,920.02	6.93	7.36	-53.10	-98.47	283.17	254.97	241.63	13.34	19.109		
2,100.00	2,091.07	2,040.59	2,013.48	7.34	7.92	-53.92	-114.96	309.69	271.57	257.40	14.16	19.173		
2,200.00	2,188.79	2,139.13	2,106.95	7.77	8.50	-54.64	-131.45	336.21	288.21	273.20	15.01	19.207		
2,300.00	2,286.51	2,237.67	2,200.41	8.20	9.10	-55.29	-147.94	362.73	304.89	289.02	15.86	19.218		
2,400.00	2,384.23	2,336.22	2,293.88	8.65	9.70	-55.87	-164.43	389.25	321.60	304.86	16.74	19.211		
2,500.00	2,481.95	2,434.76	2,387.35	9.10	10.31	-56.39	-180.92	415.77	338.34	320.71	17.63	19.191		
2,600.00	2,579.67	2,533.31	2,480.81	9.56	10.93	-56.86	-197.41	442.29	355.11	336.58	18.53	19.163		
2,700.00	2,677.39	2,631.85	2,574.28	10.02	11.55	-57.29	-213.90	468.81	371.90	352.45	19.44	19.127		
2,800.00	2,775.11	2,730.39	2,667.74	10.49	12.18	-57.68	-230.39	495.33	388.70	368.34	20.37	19.087		
2,900.00	2,872.83	2,828.94	2,761.21	10.96	12.81	-58.04	-246.89	521.85	405.53	384.23	21.29	19.043		
3,000.00	2,970.55	2,927.48	2,854.67	11.44	13.45	-58.37	-263.38	548.37	422.36	400.13	22.23	18.998		
3,100.00	3,068.27	3,026.03	2,948.14	11.92	14.08	-58.68	-279.87	574.89	439.21	416.04	23.18	18.951		
3,200.00	3,165.99	3,124.57	3,041.60	12.40	14.72	-58.96	-296.36	601.41	456.07	431.95	24.13	18.904		
3,300.00	3,263.71	3,223.12	3,135.07	12.88	15.37	-59.22	-312.85	627.93	472.95	447.87	25.08	18.857		
3,400.00	3,361.43	3,321.66	3,228.53	13.37	16.01	-59.47	-329.34	654.44	489.83	463.79	26.04	18.810		
3,500.00	3,459.15	3,420.20	3,322.00	13.86	16.66	-59.70	-345.83	680.96	506.71	479.71	27.00	18.764		
3,600.00	3,556.87	3,518.75	3,415.46	14.35	17.31	-59.91	-362.32	707.48	523.61	495.64	27.97	18.719		
3,700.00	3,654.59	3,617.29	3,508.93	14.84	17.96	-60.11	-378.81	734.00	540.51	511.57	28.94	18.675		
3,800.00	3,752.31	3,715.84	3,602.39	15.34	18.61	-60.30	-395.31	760.52	557.42	527.50	29.92	18.632		
3,900.00	3,850.03	3,814.38	3,695.86	15.83	19.26	-60.47	-411.80	787.04	574.33	543.44	30.89	18.590		
4,000.00	3,947.75	3,912.92	3,789.32	16.33	19.92	-60.64	-428.29	813.56	591.25	559.38	31.87	18.549		
4,100.00	4,045.47	4,011.47	3,882.79	16.83	20.57	-60.80	-444.78	840.08	608.18	575.32	32.86	18.510		
4,200.00	4,143.19	4,110.01	3,976.25	17.32	21.22	-60.95	-461.27	866.60	625.10	591.26	33.84	18.472		
4,300.00	4,240.91	4,208.56	4,069.72	17.82	21.88	-61.09	-477.76	893.12	642.04	607.21	34.83	18.434		
4,400.00	4,338.63	4,307.10	4,163.18	18.32	22.54	-61.22	-494.25	919.64	658.97	623.15	35.82	18.399		
4,500.00	4,436.35	4,405.65	4,256.65	18.82	23.19	-61.35	-510.74	946.16	675.91	639.10	36.81	18.364		
4,600.00	4,534.07	4,504.19	4,350.11	19.33	23.85	-61.47	-527.23	972.68	692.85	655.05	37.80	18.330		
4,700.00	4,631.79	4,602.73	4,443.58	19.83	24.51	-61.59	-543.72	999.20	709.80	671.00	38.79	18.297		
4,800.00	4,729.51	4,701.28	4,537.04	20.33	25.17	-61.70	-560.22	1,025.71	726.74	686.96	39.79	18.266		
4,900.00	4,827.23	4,799.82	4,630.51	20.83	25.83	-61.80	-576.71	1,052.23	743.69	702.91	40.78	18.235		
5,000.00	4,924.95	4,901.63	4,723.97	21.34	26.51	-61.90	-593.20	1,078.75	760.64	718.85	41.80	18.199		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,003.09	4,817.44	21.84	27.19	-62.00	-609.69	1,105.27	777.60	734.79	42.81	18.164		
5,200.00	5,120.39	5,104.55	4,910.90	22.35	27.87	-62.09	-626.18	1,131.79	794.55	750.73	43.82	18.130		
5,300.00	5,218.11	5,206.00	5,004.37	22.85	28.55	-62.18	-642.67	1,158.31	811.51	766.67	44.84	18.098		
5,400.00	5,315.83	5,307.46	5,097.83	23.36	29.23	-62.26	-659.16	1,184.83	828.47	782.61	45.86	18.066		
5,500.00	5,413.55	5,391.09	5,191.30	23.86	29.79	-62.34	-675.65	1,211.35	845.43	798.65	46.78	18.072		
5,600.00	5,511.27	5,489.63	5,284.76	24.37	30.45	-62.42	-692.14	1,237.87	862.40	814.61	47.79	18.047		
5,700.00	5,608.99	5,588.18	5,378.23	24.88	31.12	-62.50	-708.63	1,264.39	879.36	830.57	48.79	18.024		
5,800.00	5,706.71	5,686.72	5,471.69	25.38	31.78	-62.57	-725.13	1,290.91	896.33	846.53	49.79	18.001		
5,900.00	5,804.43	5,785.26	5,565.16	25.89	32.44	-62.64	-741.62	1,317.43	913.29	862.49	50.80	17.978		
6,000.00	5,902.15	5,883.81	5,658.62	26.40	33.10	-62.70	-758.11	1,343.95	930.26	878.46	51.81	17.957		
6,100.00	5,999.87	5,982.35	5,752.09	26.91	33.77	-62.77	-774.60	1,370.47	947.23	894.42	52.81	17.936		
6,200.00	6,097.59	6,080.90	5,845.55	27.42	34.43	-62.83	-791.09	1,396.98	964.20	910.38	53.82	17.916		
6,300.00	6,195.30	6,179.44	5,939.02	27.92	35.09	-62.89	-807.58	1,423.50	981.17	926.35	54.83	17.896		
6,400.00	6,293.02	6,277.98	6,032.48	28.43	35.76	-62.95	-824.07	1,450.02	998.15	942.31	55.84	17.877		
6,500.00	6,390.74	6,376.53	6,125.95	28.94	36.42	-63.00	-840.56	1,476.54	1,015.12	958.28	56.84	17.858		
6,600.00	6,488.46	6,475.07	6,219.41	29.45	37.08	-63.06	-857.05	1,503.06	1,032.10	974.24	57.85	17.840		
6,638.14	6,525.73	6,512.66	6,255.06	29.64	37.34	-63.08	-863.34	1,513.18	1,038.57	980.33	58.24	17.833		
6,700.00	6,586.32	6,573.57	6,312.83	29.95	37.75	-63.27	-873.54	1,529.57	1,049.37	990.52	58.85	17.832		
6,800.00	6,684.79	6,671.76	6,405.97	30.42	38.41	-63.48	-889.97	1,555.99	1,068.07	1,008.31	59.77	17.871		
6,900.00	6,783.81	6,775.10	6,504.00	30.85	39.10	-63.52	-907.23	1,583.76	1,088.30	1,027.64	60.66	17.941		
7,000.00	6,883.25	6,918.53	6,641.37	31.24	40.00	-63.35	-928.98	1,618.73	1,107.59	1,045.76	61.83	17.914		
7,100.00	6,983.00	7,064.01	6,782.64	31.60	40.80	-63.11	-947.30	1,648.19	1,124.36	1,061.52	62.84	17.891		
7,200.00	7,082.93	7,211.36	6,927.33	31.92	41.50	-62.81	-961.97	1,671.78	1,138.54	1,074.84	63.70	17.873		
7,251.07	7,134.00	7,287.26	7,002.37	32.06	41.82	88.66	-967.99	1,681.46	1,144.76	1,080.70	64.07	17.868		
7,300.00	7,182.93	7,360.41	7,074.95	32.19	42.10	88.91	-972.79	1,689.19	1,149.87	1,085.50	64.38	17.862		
7,351.07	7,234.00	7,437.22	7,151.38	32.32	42.36	89.11	-976.79	1,695.60	1,154.10	1,089.42	64.68	17.844		
7,400.00	7,282.87	7,511.14	7,225.11	32.47	42.60	-90.26	-979.60	1,700.13	1,157.09	1,092.09	65.00	17.800		
7,450.00	7,332.44	7,586.39	7,300.27	32.67	42.80	-90.45	-981.44	1,703.09	1,159.08	1,093.66	65.42	17.718		
7,500.00	7,381.26	7,660.38	7,374.24	32.90	42.98	-91.09	-982.23	1,704.35	1,160.09	1,094.18	65.91	17.601		
7,550.00	7,428.96	7,715.09	7,428.96	33.18	43.10	-91.84	-982.27	1,704.42	1,160.54	1,094.01	66.53	17.444		
7,600.00	7,475.17	7,761.31	7,475.17	33.48	43.20	-92.63	-982.27	1,704.42	1,161.35	1,094.09	67.26	17.266		
7,650.00	7,519.55	7,809.74	7,523.59	33.82	43.30	-93.56	-982.98	1,704.42	1,162.69	1,094.62	68.07	17.080		
7,700.00	7,561.76	7,862.91	7,576.50	34.20	43.45	-94.56	-988.09	1,704.45	1,164.49	1,095.57	68.92	16.895		
7,750.00	7,601.47	7,918.90	7,631.45	34.60	43.63	-95.57	-998.75	1,704.51	1,166.68	1,096.88	69.80	16.715		
7,800.00	7,638.39	7,978.10	7,688.11	35.04	43.86	-96.57	-1,015.79	1,704.62	1,169.22	1,098.54	70.68	16.543		
7,850.00	7,672.23	8,040.90	7,745.96	35.50	44.14	-97.56	-1,040.14	1,704.76	1,172.03	1,100.48	71.54	16.382		
7,900.00	7,702.74	8,107.67	7,804.15	35.99	44.48	-98.53	-1,072.81	1,704.96	1,175.01	1,102.63	72.38	16.235		
7,950.00	7,729.67	8,178.74	7,861.46	36.50	44.89	-99.47	-1,114.77	1,705.21	1,178.04	1,104.87	73.17	16.100		
8,000.00	7,752.84	8,254.33	7,916.21	37.04	45.37	-100.35	-1,166.79	1,705.52	1,180.98	1,107.08	73.89	15.982		
8,050.00	7,772.06	8,334.44	7,966.24	37.60	45.93	-101.15	-1,229.28	1,705.89	1,183.67	1,109.11	74.55	15.877		
8,100.00	7,787.18	8,418.80	8,008.96	38.17	46.57	-101.81	-1,301.94	1,706.33	1,185.94	1,110.78	75.16	15.779		
8,150.00	7,798.10	8,506.76	8,041.65	38.76	47.30	-102.31	-1,383.50	1,706.82	1,187.64	1,111.90	75.74	15.681		
8,200.00	7,804.72	8,597.27	8,061.86	39.36	48.09	-102.61	-1,471.63	1,707.34	1,188.65	1,112.30	76.35	15.569		
8,251.15	7,807.00	8,686.59	8,068.00	39.97	48.90	-102.68	-1,560.65	1,707.87	1,188.88	1,111.80	77.09	15.423		
8,300.00	7,807.00	8,735.45	8,068.00	40.56	49.36	-102.68	-1,609.50	1,708.17	1,188.88	1,110.68	78.21	15.202		
8,400.00	7,807.00	8,835.45	8,068.00	41.80	50.33	-102.68	-1,709.50	1,708.76	1,188.89	1,108.33	80.56	14.758		
8,500.00	7,807.00	8,935.45	8,067.99	43.08	51.35	-102.68	-1,809.50	1,709.36	1,188.89	1,105.90	82.99	14.325		
8,600.00	7,806.99	9,035.45	8,067.99	44.40	52.40	-102.68	-1,909.50	1,709.96	1,188.89	1,103.39	85.50	13.905		
8,700.00	7,806.99	9,135.45	8,067.99	45.74	53.50	-102.68	-2,009.49	1,710.56	1,188.89	1,100.82	88.07	13.500		
8,800.00	7,806.99	9,235.45	8,067.99	47.11	54.62	-102.68	-2,109.49	1,711.16	1,188.89	1,098.20	90.70	13.108		
8,900.00	7,806.99	9,335.45	8,067.99	48.51	55.79	-102.68	-2,209.49	1,711.76	1,188.90	1,095.51	93.38	12.731		
9,000.00	7,806.99	9,435.45	8,067.98	49.93	56.98	-102.68	-2,309.49	1,712.35	1,188.90	1,092.78	96.12	12.369		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	9,535.45	8,067.98	51.38	58.20	-102.68	-2,409.49	1,712.95	1,188.90	1,090.00	98.90	12.021		
9,200.00	7,806.99	9,635.45	8,067.98	52.84	59.46	-102.68	-2,509.49	1,713.55	1,188.90	1,087.17	101.73	11.687		
9,300.00	7,806.98	9,735.45	8,067.98	54.32	60.73	-102.68	-2,609.48	1,714.15	1,188.91	1,084.31	104.59	11.367		
9,400.00	7,806.98	9,835.45	8,067.97	55.82	62.04	-102.68	-2,709.48	1,714.75	1,188.91	1,081.41	107.49	11.060		
9,500.00	7,806.98	9,935.45	8,067.97	57.34	63.36	-102.68	-2,809.48	1,715.34	1,188.91	1,078.48	110.43	10.766		
9,600.00	7,806.98	10,035.45	8,067.97	58.87	64.71	-102.68	-2,909.48	1,715.94	1,188.91	1,075.52	113.39	10.485		
9,700.00	7,806.98	10,135.45	8,067.97	60.41	66.08	-102.68	-3,009.48	1,716.54	1,188.91	1,072.53	116.38	10.215		
9,800.00	7,806.98	10,235.45	8,067.96	61.96	67.47	-102.68	-3,109.47	1,717.14	1,188.92	1,069.51	119.40	9.957		
9,900.00	7,806.97	10,335.45	8,067.96	63.53	68.87	-102.68	-3,209.47	1,717.74	1,188.92	1,066.47	122.45	9.710		
10,000.00	7,806.97	10,435.45	8,067.96	65.10	70.30	-102.68	-3,309.47	1,718.33	1,188.92	1,063.41	125.51	9.473		
10,100.00	7,806.97	10,535.45	8,067.96	66.69	71.74	-102.68	-3,409.47	1,718.93	1,188.92	1,060.32	128.60	9.245		
10,200.00	7,806.97	10,635.45	8,067.96	68.29	73.19	-102.68	-3,509.47	1,719.53	1,188.92	1,057.22	131.71	9.027		
10,300.00	7,806.97	10,735.45	8,067.95	69.89	74.66	-102.68	-3,609.47	1,720.13	1,188.93	1,054.10	134.83	8.818		
10,400.00	7,806.97	10,835.45	8,067.95	71.50	76.14	-102.68	-3,709.46	1,720.73	1,188.93	1,050.96	137.97	8.617		
10,500.00	7,806.97	10,935.45	8,067.95	73.12	77.63	-102.68	-3,809.46	1,721.32	1,188.93	1,047.80	141.13	8.425		
10,600.00	7,806.96	11,035.45	8,067.95	74.75	79.14	-102.68	-3,909.46	1,721.92	1,188.93	1,044.63	144.30	8.239		
10,700.00	7,806.96	11,135.45	8,067.94	76.38	80.66	-102.68	-4,009.46	1,722.52	1,188.93	1,041.45	147.48	8.062		
10,800.00	7,806.96	11,235.45	8,067.94	78.02	82.18	-102.68	-4,109.46	1,723.12	1,188.94	1,038.25	150.68	7.890		
10,900.00	7,806.96	11,335.45	8,067.94	79.66	83.72	-102.68	-4,209.45	1,723.72	1,188.94	1,035.05	153.89	7.726		
11,000.00	7,806.96	11,435.45	8,067.94	81.31	85.27	-102.68	-4,309.45	1,724.31	1,188.94	1,031.83	157.11	7.567		
11,100.00	7,806.96	11,535.45	8,067.93	82.97	86.82	-102.68	-4,409.45	1,724.91	1,188.94	1,028.60	160.34	7.415		
11,200.00	7,806.95	11,635.45	8,067.93	84.63	88.38	-102.68	-4,509.45	1,725.51	1,188.94	1,025.36	163.59	7.268		
11,300.00	7,806.95	11,735.45	8,067.93	86.29	89.96	-102.68	-4,609.45	1,726.11	1,188.95	1,022.11	166.84	7.126		
11,400.00	7,806.95	11,835.45	8,067.93	87.96	91.54	-102.68	-4,709.45	1,726.71	1,188.95	1,018.85	170.10	6.990		
11,500.00	7,806.95	11,935.45	8,067.93	89.64	93.12	-102.68	-4,809.44	1,727.30	1,188.95	1,015.58	173.37	6.858		
11,600.00	7,806.95	12,035.45	8,067.92	91.31	94.71	-102.68	-4,909.44	1,727.90	1,188.95	1,012.31	176.64	6.731		
11,700.00	7,806.95	12,135.45	8,067.92	92.99	96.31	-102.68	-5,009.44	1,728.50	1,188.95	1,009.03	179.93	6.608		
11,800.00	7,806.95	12,235.45	8,067.92	94.68	97.92	-102.68	-5,109.44	1,729.10	1,188.96	1,005.74	183.22	6.489		
11,900.00	7,806.94	12,335.45	8,067.92	96.36	99.53	-102.68	-5,209.44	1,729.70	1,188.96	1,002.44	186.52	6.375		
12,000.00	7,806.94	12,435.45	8,067.91	98.05	101.15	-102.68	-5,309.44	1,730.29	1,188.96	999.14	189.82	6.264		
12,100.00	7,806.94	12,535.45	8,067.91	99.74	102.77	-102.68	-5,409.43	1,730.89	1,188.96	995.83	193.13	6.156		
12,200.00	7,806.94	12,635.45	8,067.91	101.44	104.40	-102.68	-5,509.43	1,731.49	1,188.96	992.52	196.45	6.052		
12,300.00	7,806.94	12,735.45	8,067.91	103.14	106.03	-102.68	-5,609.43	1,732.09	1,188.97	989.20	199.77	5.952		
12,400.00	7,806.94	12,835.45	8,067.91	104.84	107.66	-102.68	-5,709.43	1,732.69	1,188.97	985.87	203.10	5.854		
12,500.00	7,806.93	12,935.45	8,067.90	106.54	109.30	-102.68	-5,809.43	1,733.29	1,188.97	982.54	206.43	5.760		
12,600.00	7,806.93	13,035.45	8,067.90	108.25	110.95	-102.68	-5,909.42	1,733.88	1,188.97	979.21	209.76	5.668		
12,700.00	7,806.93	13,135.45	8,067.90	109.95	112.60	-102.68	-6,009.42	1,734.48	1,188.97	975.87	213.10	5.579		
12,800.00	7,806.93	13,235.45	8,067.90	111.66	114.25	-102.68	-6,109.42	1,735.08	1,188.98	972.53	216.45	5.493		
12,900.00	7,806.93	13,335.45	8,067.89	113.37	115.91	-102.68	-6,209.42	1,735.68	1,188.98	969.18	219.80	5.409		
13,000.00	7,806.93	13,435.45	8,067.89	115.09	117.56	-102.68	-6,309.42	1,736.28	1,188.98	965.83	223.15	5.328		
13,100.00	7,806.93	13,535.45	8,067.89	116.80	119.23	-102.68	-6,409.42	1,736.87	1,188.98	962.47	226.51	5.249		
13,200.00	7,806.92	13,635.45	8,067.89	118.52	120.89	-102.68	-6,509.41	1,737.47	1,188.98	959.11	229.87	5.172		
13,300.00	7,806.92	13,735.45	8,067.88	120.24	122.56	-102.68	-6,609.41	1,738.07	1,188.99	955.75	233.23	5.098		
13,400.00	7,806.92	13,835.45	8,067.88	121.96	124.23	-102.68	-6,709.41	1,738.67	1,188.99	952.39	236.60	5.025		
13,500.00	7,806.92	13,935.45	8,067.88	123.68	125.91	-102.68	-6,809.41	1,739.27	1,188.99	949.02	239.97	4.955		
13,600.00	7,806.92	14,035.45	8,067.88	125.40	127.59	-102.68	-6,909.41	1,739.86	1,188.99	945.65	243.34	4.886		
13,700.00	7,806.92	14,135.45	8,067.88	127.12	129.27	-102.68	-7,009.40	1,740.46	1,188.99	942.27	246.72	4.819		
13,800.00	7,806.91	14,235.45	8,067.87	128.85	130.95	-102.68	-7,109.40	1,741.06	1,189.00	938.90	250.10	4.754		
13,900.00	7,806.91	14,335.45	8,067.87	130.58	132.63	-102.68	-7,209.40	1,741.66	1,189.00	935.52	253.48	4.691		
14,000.00	7,806.91	14,435.45	8,067.87	132.30	134.32	-102.68	-7,309.40	1,742.26	1,189.00	932.14	256.86	4.629		
14,100.00	7,806.91	14,535.45	8,067.87	134.03	136.01	-102.68	-7,409.40	1,742.85	1,189.00	928.75	260.25	4.569		
14,200.00	7,806.91	14,635.45	8,067.86	135.76	137.70	-102.68	-7,509.40	1,743.45	1,189.00	925.37	263.64	4.510		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
14,300.00	7,806.91	14,735.45	8,067.86	137.50	139.40	-102.68	-7,609.39	1,744.05	1,189.01	921.98	267.03	4.453		
14,400.00	7,806.91	14,835.45	8,067.86	139.23	141.09	-102.68	-7,709.39	1,744.65	1,189.01	918.59	270.42	4.397		
14,500.00	7,806.90	14,935.45	8,067.86	140.96	142.79	-102.68	-7,809.39	1,745.25	1,189.01	915.19	273.82	4.342		
14,600.00	7,806.90	15,035.45	8,067.85	142.70	144.49	-102.68	-7,909.39	1,745.84	1,189.01	911.80	277.21	4.289		
14,700.00	7,806.90	15,135.45	8,067.85	144.43	146.19	-102.68	-8,009.39	1,746.44	1,189.01	908.40	280.61	4.237		
14,800.00	7,806.90	15,235.45	8,067.85	146.17	147.89	-102.68	-8,109.39	1,747.04	1,189.02	905.00	284.01	4.186		
14,900.00	7,806.90	15,335.45	8,067.85	147.91	149.60	-102.68	-8,209.38	1,747.64	1,189.02	901.60	287.42	4.137		
15,000.00	7,806.90	15,435.45	8,067.85	149.64	151.30	-102.68	-8,309.38	1,748.24	1,189.02	898.20	290.82	4.088		
15,100.00	7,806.89	15,535.45	8,067.84	151.38	153.01	-102.68	-8,409.38	1,748.83	1,189.02	894.79	294.23	4.041		
15,200.00	7,806.89	15,635.45	8,067.84	153.12	154.72	-102.68	-8,509.38	1,749.43	1,189.02	891.39	297.64	3.995		
15,300.00	7,806.89	15,735.45	8,067.84	154.86	156.43	-102.68	-8,609.38	1,750.03	1,189.03	887.98	301.05	3.950		
15,400.00	7,806.89	15,835.45	8,067.84	156.60	158.14	-102.68	-8,709.37	1,750.63	1,189.03	884.57	304.46	3.905		
15,500.00	7,806.89	15,935.45	8,067.83	158.35	159.85	-102.68	-8,809.37	1,751.23	1,189.03	881.16	307.87	3.862		
15,600.00	7,806.89	16,035.45	8,067.83	160.09	161.57	-102.68	-8,909.37	1,751.82	1,189.03	877.75	311.28	3.820		
15,700.00	7,806.89	16,135.45	8,067.83	161.83	163.28	-102.68	-9,009.37	1,752.42	1,189.03	874.34	314.70	3.778		
15,800.00	7,806.88	16,235.45	8,067.83	163.57	165.00	-102.68	-9,109.37	1,753.02	1,189.04	870.92	318.11	3.738		
15,900.00	7,806.88	16,335.45	8,067.83	165.32	166.72	-102.68	-9,209.37	1,753.62	1,189.04	867.51	321.53	3.698		
16,000.00	7,806.88	16,435.45	8,067.82	167.06	168.44	-102.68	-9,309.36	1,754.22	1,189.04	864.09	324.95	3.659		
16,100.00	7,806.88	16,535.45	8,067.82	168.81	170.16	-102.68	-9,409.36	1,754.82	1,189.04	860.67	328.37	3.621		
16,200.00	7,806.88	16,635.45	8,067.82	170.56	171.88	-102.68	-9,509.36	1,755.41	1,189.04	857.25	331.79	3.584		
16,300.00	7,806.88	16,735.45	8,067.82	172.30	173.60	-102.68	-9,609.36	1,756.01	1,189.05	853.83	335.22	3.547		
16,400.00	7,806.87	16,835.45	8,067.81	174.05	175.33	-102.68	-9,709.36	1,756.61	1,189.05	850.41	338.64	3.511		
16,500.00	7,806.87	16,935.45	8,067.81	175.80	177.05	-102.68	-9,809.35	1,757.21	1,189.05	846.99	342.06	3.476		
16,600.00	7,806.87	17,035.45	8,067.81	177.55	178.78	-102.68	-9,909.35	1,757.81	1,189.05	843.56	345.49	3.442		
16,700.00	7,806.87	17,135.45	8,067.81	179.30	180.50	-102.68	-10,009.35	1,758.40	1,189.05	840.14	348.92	3.408		
16,800.00	7,806.87	17,235.45	8,067.80	181.04	182.23	-102.68	-10,109.35	1,759.00	1,189.06	836.71	352.34	3.375		
16,900.00	7,806.87	17,335.45	8,067.80	182.79	183.96	-102.68	-10,209.35	1,759.60	1,189.06	833.28	355.77	3.342		
17,000.00	7,806.87	17,435.45	8,067.80	184.54	185.69	-102.68	-10,309.35	1,760.20	1,189.06	829.86	359.20	3.310		
17,100.00	7,806.86	17,535.45	8,067.80	186.30	187.42	-102.68	-10,409.34	1,760.80	1,189.06	826.43	362.63	3.279		
17,200.00	7,806.86	17,635.45	8,067.80	188.05	189.15	-102.68	-10,509.34	1,761.39	1,189.06	823.00	366.06	3.248		
17,300.00	7,806.86	17,735.45	8,067.79	189.80	190.88	-102.68	-10,609.34	1,761.99	1,189.07	819.57	369.50	3.218		
17,400.00	7,806.86	17,835.45	8,067.79	191.55	192.61	-102.68	-10,709.34	1,762.59	1,189.07	816.14	372.93	3.188		
17,500.00	7,806.86	17,935.45	8,067.79	193.30	194.34	-102.68	-10,809.34	1,763.19	1,189.07	812.71	376.36	3.159		
17,600.00	7,806.86	18,035.45	8,067.79	195.06	196.08	-102.68	-10,909.34	1,763.79	1,189.07	809.27	379.80	3.131		
17,700.00	7,806.85	18,135.45	8,067.78	196.81	197.81	-102.68	-11,009.33	1,764.38	1,189.07	805.84	383.23	3.103		
17,800.00	7,806.85	18,235.45	8,067.78	198.56	199.55	-102.68	-11,109.33	1,764.98	1,189.08	802.41	386.67	3.075		
17,800.02	7,806.85	18,235.47	8,067.78	198.56	199.55	-102.68	-11,109.35	1,764.98	1,189.08	802.41	386.67	3.075		
17,898.35	7,807.00	18,326.01	8,067.91	200.29	201.12	-102.67	-11,199.89	1,765.67	1,189.24	799.09	390.14	3.048 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	90.32	-0.80	143.96	143.96					
100.00	100.00	100.00	100.00	0.13	0.13	90.32	-0.80	143.96	143.96	143.69	0.27	535.450		
200.00	200.00	200.00	200.00	0.49	0.49	90.32	-0.80	143.96	143.96	142.97	0.99	146.032		
300.00	300.00	300.00	300.00	0.85	0.85	90.32	-0.80	143.96	143.96	142.26	1.70	84.545		
400.00	400.00	400.00	400.00	1.21	1.21	90.32	-0.80	143.96	143.96	141.54	2.42	59.494		
500.00	500.00	500.00	500.00	1.57	1.57	90.32	-0.80	143.96	143.96	140.82	3.14	45.896		
600.00	600.00	600.00	600.00	1.93	1.93	90.32	-0.80	143.96	143.96	140.10	3.85	37.357		
700.00	700.00	700.00	700.00	2.29	2.29	90.32	-0.80	143.96	143.96	139.39	4.57	31.497		
800.00	800.00	800.00	800.00	2.64	2.64	90.32	-0.80	143.96	143.96	138.67	5.29	27.226 CC, ES		
900.00	900.00	895.70	895.68	3.00	2.97	90.61	-1.55	145.37	145.44	139.47	5.98	24.340		
1,000.00	1,000.00	991.18	991.04	3.36	3.30	91.45	-3.78	149.59	149.91	143.26	6.65	22.539		
1,100.00	1,100.00	1,086.25	1,085.77	3.72	3.63	92.73	-7.48	156.59	157.41	150.09	7.32	21.493		
1,200.00	1,200.00	1,180.68	1,179.56	4.08	3.97	94.34	-12.61	166.28	168.01	160.02	7.99	21.023		
1,300.00	1,300.00	1,274.29	1,272.13	4.44	4.33	96.11	-19.11	178.59	181.76	173.10	8.65	21.007		
1,400.00	1,399.98	1,367.14	1,363.44	4.78	4.70	-53.49	-26.95	193.42	197.66	188.37	9.29	21.284		
1,500.00	1,499.84	1,459.40	1,453.59	5.11	5.09	-52.43	-36.11	210.75	214.60	204.70	9.90	21.683		
1,600.00	1,599.45	1,551.02	1,542.45	5.44	5.51	-51.89	-46.55	230.49	232.44	221.93	10.52	22.105		
1,700.00	1,698.70	1,642.00	1,629.93	5.79	5.96	-51.74	-58.22	252.56	251.14	240.00	11.14	22.548		
1,800.00	1,797.47	1,732.28	1,715.92	6.15	6.44	-51.90	-71.08	276.88	270.66	258.89	11.77	22.991		
1,900.00	1,895.62	1,821.86	1,800.33	6.53	6.96	-52.30	-85.08	303.37	291.01	278.58	12.43	23.420		
1,912.93	1,908.27	1,833.40	1,811.13	6.58	7.03	-52.36	-86.98	306.95	293.70	281.19	12.51	23.476		
2,000.00	1,993.35	1,912.62	1,884.89	6.93	7.52	-53.01	-100.48	332.50	312.90	299.77	13.13	23.834		
2,100.00	2,091.07	2,009.92	1,975.23	7.34	8.16	-53.67	-117.39	364.47	335.66	321.71	13.95	24.059		
2,200.00	2,188.79	2,107.23	2,065.57	7.77	8.82	-54.25	-134.29	396.44	358.46	343.66	14.80	24.224		
2,300.00	2,286.51	2,204.54	2,155.91	8.20	9.49	-54.75	-151.19	428.40	381.29	365.63	15.66	24.345		
2,400.00	2,384.23	2,301.85	2,246.25	8.65	10.18	-55.20	-168.09	460.37	404.15	387.60	16.54	24.431		
2,500.00	2,481.95	2,400.85	2,336.59	9.10	10.89	-55.60	-184.99	492.34	427.02	409.58	17.45	24.478		
2,600.00	2,579.67	2,503.54	2,426.92	9.56	11.63	-55.96	-201.89	524.30	449.92	431.54	18.38	24.482		
2,700.00	2,677.39	2,593.77	2,517.26	10.02	12.29	-56.29	-218.79	556.27	472.83	453.56	19.26	24.549		
2,800.00	2,775.11	2,708.93	2,607.60	10.49	13.14	-56.58	-235.69	588.24	495.75	475.47	20.28	24.451		
2,900.00	2,872.83	2,788.38	2,697.94	10.96	13.73	-56.85	-252.59	620.20	518.68	497.56	21.12	24.557		
3,000.00	2,970.55	2,885.69	2,788.28	11.44	14.45	-57.10	-269.49	652.17	541.63	519.56	22.06	24.549		
3,100.00	3,068.27	2,983.00	2,878.62	11.92	15.18	-57.32	-286.39	684.14	564.58	541.57	23.01	24.535		
3,200.00	3,165.99	3,080.30	2,968.96	12.40	15.91	-57.53	-303.29	716.10	587.54	563.57	23.97	24.516		
3,300.00	3,263.71	3,177.61	3,059.30	12.88	16.64	-57.72	-320.19	748.07	610.51	585.58	24.92	24.495		
3,400.00	3,361.43	3,274.92	3,149.64	13.37	17.38	-57.90	-337.09	780.04	633.48	607.59	25.89	24.470		
3,500.00	3,459.15	3,372.22	3,239.98	13.86	18.11	-58.07	-353.99	812.00	656.46	629.60	26.86	24.444		
3,600.00	3,556.87	3,469.53	3,330.32	14.35	18.85	-58.22	-370.89	843.97	679.44	651.61	27.83	24.417		
3,700.00	3,654.59	3,566.84	3,420.66	14.84	19.60	-58.37	-387.79	875.94	702.43	673.63	28.80	24.389		
3,800.00	3,752.31	3,664.15	3,511.00	15.34	20.34	-58.50	-404.69	907.90	725.42	695.64	29.78	24.360		
3,900.00	3,850.03	3,761.45	3,601.34	15.83	21.08	-58.63	-421.59	939.87	748.41	717.66	30.76	24.332		
4,000.00	3,947.75	3,858.76	3,691.68	16.33	21.83	-58.75	-438.49	971.83	771.41	739.67	31.74	24.303		
4,100.00	4,045.47	3,956.07	3,782.01	16.83	22.57	-58.86	-455.39	1,003.80	794.41	761.69	32.73	24.274		
4,200.00	4,143.19	4,053.37	3,872.35	17.32	23.32	-58.97	-472.29	1,035.77	817.42	783.70	33.71	24.245		
4,300.00	4,240.91	4,150.68	3,962.69	17.82	24.06	-59.07	-489.19	1,067.73	840.43	805.72	34.70	24.217		
4,400.00	4,338.63	4,247.99	4,053.03	18.32	24.81	-59.17	-506.09	1,099.70	863.44	827.74	35.70	24.189		
4,500.00	4,436.35	4,345.30	4,143.37	18.82	25.56	-59.26	-522.99	1,131.67	886.45	849.76	36.69	24.162		
4,600.00	4,534.07	4,442.60	4,233.71	19.33	26.31	-59.34	-539.89	1,163.63	909.46	871.78	37.68	24.135		
4,700.00	4,631.79	4,539.91	4,324.05	19.83	27.06	-59.42	-556.79	1,195.60	932.48	893.80	38.68	24.109		
4,800.00	4,729.51	4,637.22	4,414.39	20.33	27.81	-59.50	-573.69	1,227.57	955.49	915.82	39.68	24.083		
4,900.00	4,827.23	4,734.52	4,504.73	20.83	28.56	-59.58	-590.59	1,259.53	978.51	937.84	40.67	24.058		
5,000.00	4,924.95	4,831.83	4,595.07	21.34	29.31	-59.65	-607.49	1,291.50	1,001.53	959.86	41.67	24.033		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,929.14	4,685.41	21.84	30.06	-59.71	-624.39	1,323.47	1,024.55	981.88	42.67	24.009		
5,200.00	5,120.39	5,026.44	4,775.75	22.35	30.82	-59.78	-641.29	1,355.43	1,047.58	1,003.90	43.68	23.985		
5,300.00	5,218.11	5,123.75	4,866.09	22.85	31.57	-59.84	-658.19	1,387.40	1,070.60	1,025.92	44.68	23.963		
5,400.00	5,315.83	5,221.06	4,956.43	23.36	32.32	-59.90	-675.09	1,419.37	1,093.62	1,047.94	45.68	23.940		
5,500.00	5,413.55	5,318.37	5,046.77	23.86	33.07	-59.96	-691.99	1,451.33	1,116.65	1,069.96	46.69	23.918		
5,600.00	5,511.27	5,415.67	5,137.10	24.37	33.83	-60.01	-708.89	1,483.30	1,139.68	1,091.99	47.69	23.897		
5,700.00	5,608.99	5,512.98	5,227.44	24.88	34.58	-60.06	-725.79	1,515.27	1,162.70	1,114.01	48.70	23.876		
5,800.00	5,706.71	5,610.29	5,317.78	25.38	35.33	-60.11	-742.69	1,547.23	1,185.73	1,136.03	49.70	23.856		
5,900.00	5,804.43	5,707.59	5,408.12	25.89	36.09	-60.16	-759.59	1,579.20	1,208.76	1,158.05	50.71	23.836		
6,000.00	5,902.15	5,804.90	5,498.46	26.40	36.84	-60.21	-776.49	1,611.17	1,231.79	1,180.08	51.72	23.817		
6,100.00	5,999.87	5,902.21	5,588.80	26.91	37.60	-60.25	-793.39	1,643.13	1,254.83	1,202.10	52.73	23.798		
6,200.00	6,097.59	6,000.48	5,679.14	27.42	38.36	-60.29	-810.30	1,675.10	1,277.86	1,224.12	53.74	23.778		
6,300.00	6,195.30	6,096.82	5,769.48	27.92	39.11	-60.34	-827.20	1,707.06	1,300.89	1,246.14	54.75	23.762		
6,400.00	6,293.02	6,205.87	5,859.82	28.43	39.95	-60.38	-844.10	1,739.03	1,323.92	1,268.10	55.82	23.718		
6,500.00	6,390.74	6,308.56	5,950.16	28.94	40.75	-60.42	-861.00	1,771.00	1,346.96	1,290.10	56.86	23.689		
6,600.00	6,488.46	6,388.74	6,040.50	29.45	41.37	-60.45	-877.90	1,802.96	1,369.99	1,312.21	57.78	23.711		
6,638.14	6,525.73	6,430.20	6,079.00	29.64	41.69	-60.47	-885.09	1,816.57	1,378.77	1,320.56	58.21	23.687		
6,700.00	6,586.32	6,535.32	6,177.41	29.95	42.46	-60.75	-902.34	1,849.20	1,392.17	1,332.92	59.26	23.494		
6,800.00	6,684.79	6,707.71	6,341.55	30.42	43.60	-61.14	-926.94	1,895.74	1,411.03	1,350.24	60.79	23.211		
6,900.00	6,783.81	6,882.79	6,511.16	30.85	44.58	-61.44	-947.16	1,933.98	1,426.29	1,364.18	62.11	22.964		
7,000.00	6,883.25	7,060.02	6,685.24	31.24	45.39	-61.67	-962.66	1,963.29	1,437.85	1,374.65	63.20	22.753		
7,100.00	6,983.00	7,238.85	6,862.61	31.60	46.05	-61.82	-973.17	1,983.17	1,445.62	1,381.57	64.04	22.573		
7,200.00	7,082.93	7,418.65	7,042.02	31.92	46.56	-61.89	-978.50	1,993.26	1,449.54	1,384.88	64.65	22.420		
7,251.07	7,134.00	7,510.64	7,134.00	32.06	46.75	89.39	-979.19	1,994.56	1,450.04	1,385.19	64.86	22.358		
7,300.00	7,182.93	7,559.57	7,182.93	32.19	46.84	89.39	-979.19	1,994.56	1,450.04	1,384.94	65.10	22.273		
7,351.07	7,234.00	7,610.64	7,234.00	32.32	46.94	89.39	-979.19	1,994.56	1,450.04	1,384.68	65.36	22.185		
7,400.00	7,282.87	7,660.15	7,283.45	32.47	47.05	-90.27	-981.33	1,994.57	1,450.04	1,384.39	65.66	22.085		
7,450.00	7,332.44	7,710.73	7,333.59	32.67	47.18	-90.26	-987.91	1,994.61	1,450.04	1,384.01	66.04	21.958		
7,500.00	7,381.26	7,761.31	7,382.94	32.90	47.33	-90.26	-998.89	1,994.68	1,450.04	1,383.56	66.49	21.810		
7,550.00	7,428.96	7,811.87	7,431.12	33.18	47.52	-90.25	-1,014.16	1,994.77	1,450.04	1,383.04	67.01	21.640		
7,600.00	7,475.17	7,862.42	7,477.76	33.48	47.72	-90.24	-1,033.62	1,994.89	1,450.04	1,382.45	67.59	21.452		
7,650.00	7,519.55	7,912.94	7,522.47	33.82	47.94	-90.23	-1,057.10	1,995.03	1,450.04	1,381.79	68.25	21.246		
7,700.00	7,561.76	7,963.44	7,564.93	34.20	48.19	-90.22	-1,084.41	1,995.19	1,450.04	1,381.07	68.97	21.024		
7,750.00	7,601.47	8,013.90	7,604.79	34.60	48.46	-90.20	-1,115.33	1,995.38	1,450.04	1,380.29	69.76	20.788		
7,800.00	7,638.39	8,064.34	7,641.75	35.04	48.75	-90.19	-1,149.61	1,995.58	1,450.04	1,379.44	70.60	20.539		
7,850.00	7,672.23	8,114.73	7,675.54	35.50	49.05	-90.17	-1,186.99	1,995.81	1,450.04	1,378.54	71.50	20.280		
7,852.58	7,673.89	8,117.33	7,677.19	35.52	49.07	-90.17	-1,188.99	1,995.82	1,450.04	1,378.49	71.55	20.266		
7,900.00	7,702.74	8,165.09	7,705.89	35.99	49.38	-90.15	-1,227.15	1,996.05	1,450.04	1,377.58	72.46	20.012		
7,950.00	7,729.67	8,215.40	7,732.57	36.50	49.72	-90.13	-1,269.78	1,996.30	1,450.04	1,376.58	73.46	19.738		
8,000.00	7,752.84	8,265.67	7,755.40	37.04	50.08	-90.11	-1,314.54	1,996.57	1,450.04	1,375.53	74.51	19.460		
8,050.00	7,772.06	8,315.89	7,774.20	37.60	50.46	-90.09	-1,361.09	1,996.85	1,450.04	1,374.44	75.60	19.180		
8,100.00	7,787.18	8,366.06	7,788.84	38.17	50.85	-90.07	-1,409.06	1,997.14	1,450.04	1,373.32	76.72	18.899		
8,150.00	7,798.10	8,416.18	7,799.22	38.76	51.26	-90.05	-1,458.08	1,997.43	1,450.04	1,372.17	77.87	18.621		
8,200.00	7,804.72	8,466.25	7,805.28	39.36	51.67	-90.02	-1,507.77	1,997.73	1,450.05	1,371.01	79.03	18.347		
8,251.15	7,807.00	8,517.41	7,807.00	39.97	52.10	-90.00	-1,558.89	1,998.04	1,450.05	1,369.81	80.23	18.073		
8,300.00	7,807.00	8,566.27	7,807.00	40.56	52.53	-90.00	-1,607.74	1,998.33	1,450.05	1,368.66	81.39	17.816		
8,400.00	7,807.00	8,666.27	7,807.00	41.80	53.42	-90.00	-1,707.74	1,998.93	1,450.05	1,366.23	83.82	17.299		
8,500.00	7,807.00	8,766.27	7,807.00	43.08	54.36	-90.00	-1,807.74	1,999.53	1,450.06	1,363.73	86.33	16.797		
8,600.00	7,806.99	8,866.27	7,807.00	44.40	55.34	-90.00	-1,907.74	2,000.13	1,450.06	1,361.15	88.91	16.310		
8,700.00	7,806.99	8,966.27	7,807.00	45.74	56.36	-90.00	-2,007.73	2,000.73	1,450.06	1,358.51	91.55	15.839		
8,800.00	7,806.99	9,066.27	7,806.99	47.11	57.41	-90.00	-2,107.73	2,001.32	1,450.07	1,355.81	94.25	15.385		
8,900.00	7,806.99	9,166.27	7,806.99	48.51	58.50	-90.00	-2,207.73	2,001.92	1,450.07	1,353.06	97.01	14.948		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	9,266.27	7,806.99	49.93	59.62	-90.00	-2,307.73	2,002.52	1,450.07	1,350.26	99.82	14.528		
9,100.00	7,806.99	9,366.27	7,806.99	51.38	60.78	-90.00	-2,407.73	2,003.12	1,450.08	1,347.41	102.67	14.124		
9,200.00	7,806.99	9,466.27	7,806.99	52.84	61.96	-90.00	-2,507.73	2,003.72	1,450.08	1,344.52	105.56	13.737		
9,300.00	7,806.98	9,566.27	7,806.99	54.32	63.17	-90.00	-2,607.72	2,004.32	1,450.08	1,341.59	108.49	13.366		
9,400.00	7,806.98	9,666.27	7,806.99	55.82	64.41	-90.00	-2,707.72	2,004.92	1,450.09	1,338.63	111.46	13.010		
9,500.00	7,806.98	9,766.27	7,806.99	57.34	65.68	-90.00	-2,807.72	2,005.52	1,450.09	1,335.63	114.46	12.669		
9,600.00	7,806.98	9,866.27	7,806.99	58.87	66.96	-90.00	-2,907.72	2,006.12	1,450.09	1,332.60	117.49	12.342		
9,700.00	7,806.98	9,966.27	7,806.98	60.41	68.27	-90.00	-3,007.72	2,006.72	1,450.10	1,329.55	120.55	12.029		
9,800.00	7,806.98	10,066.27	7,806.98	61.96	69.60	-90.00	-3,107.71	2,007.32	1,450.10	1,326.46	123.64	11.729		
9,900.00	7,806.97	10,166.27	7,806.98	63.53	70.96	-90.00	-3,207.71	2,007.92	1,450.10	1,323.36	126.75	11.441		
10,000.00	7,806.97	10,266.27	7,806.98	65.10	72.33	-90.00	-3,307.71	2,008.52	1,450.11	1,320.23	129.88	11.165		
10,100.00	7,806.97	10,366.27	7,806.98	66.69	73.71	-90.00	-3,407.71	2,009.12	1,450.11	1,317.08	133.03	10.901		
10,200.00	7,806.97	10,466.27	7,806.98	68.29	75.12	-90.00	-3,507.71	2,009.72	1,450.11	1,313.91	136.20	10.647		
10,300.00	7,806.97	10,566.27	7,806.98	69.89	76.54	-90.00	-3,607.71	2,010.31	1,450.12	1,310.73	139.39	10.403		
10,400.00	7,806.97	10,666.27	7,806.98	71.50	77.98	-90.00	-3,707.70	2,010.91	1,450.12	1,307.52	142.60	10.169		
10,500.00	7,806.97	10,766.27	7,806.98	73.12	79.43	-90.00	-3,807.70	2,011.51	1,450.13	1,304.30	145.82	9.945		
10,600.00	7,806.96	10,866.27	7,806.98	74.75	80.89	-90.00	-3,907.70	2,012.11	1,450.13	1,301.07	149.06	9.729		
10,700.00	7,806.96	10,966.27	7,806.97	76.38	82.37	-90.00	-4,007.70	2,012.71	1,450.13	1,297.82	152.31	9.521		
10,800.00	7,806.96	11,066.27	7,806.97	78.02	83.86	-90.00	-4,107.70	2,013.31	1,450.14	1,294.56	155.57	9.321		
10,900.00	7,806.96	11,166.27	7,806.97	79.66	85.36	-90.00	-4,207.70	2,013.91	1,450.14	1,291.29	158.85	9.129		
11,000.00	7,806.96	11,266.27	7,806.97	81.31	86.87	-90.00	-4,307.69	2,014.51	1,450.14	1,288.01	162.14	8.944		
11,100.00	7,806.96	11,366.27	7,806.97	82.97	88.39	-90.00	-4,407.69	2,015.11	1,450.15	1,284.71	165.43	8.766		
11,200.00	7,806.95	11,466.27	7,806.97	84.63	89.92	-90.00	-4,507.69	2,015.71	1,450.15	1,281.41	168.74	8.594		
11,300.00	7,806.95	11,566.27	7,806.97	86.29	91.46	-90.00	-4,607.69	2,016.31	1,450.15	1,278.09	172.06	8.428		
11,400.00	7,806.95	11,666.27	7,806.97	87.96	93.00	-90.00	-4,707.69	2,016.91	1,450.16	1,274.77	175.39	8.268		
11,500.00	7,806.95	11,766.27	7,806.97	89.64	94.56	-90.00	-4,807.68	2,017.51	1,450.16	1,271.44	178.72	8.114		
11,600.00	7,806.95	11,866.27	7,806.96	91.31	96.12	-90.00	-4,907.68	2,018.11	1,450.16	1,268.10	182.06	7.965		
11,700.00	7,806.95	11,966.27	7,806.96	92.99	97.70	-90.00	-5,007.68	2,018.70	1,450.17	1,264.75	185.41	7.821		
11,800.00	7,806.95	12,066.27	7,806.96	94.68	99.27	-90.00	-5,107.68	2,019.30	1,450.17	1,261.40	188.77	7.682		
11,900.00	7,806.94	12,166.27	7,806.96	96.36	100.86	-90.00	-5,207.68	2,019.90	1,450.17	1,258.04	192.14	7.548		
12,000.00	7,806.94	12,266.27	7,806.96	98.05	102.45	-90.00	-5,307.68	2,020.50	1,450.18	1,254.67	195.51	7.418		
12,100.00	7,806.94	12,366.27	7,806.96	99.74	104.05	-90.00	-5,407.67	2,021.10	1,450.18	1,251.30	198.88	7.292		
12,200.00	7,806.94	12,466.27	7,806.96	101.44	105.65	-90.00	-5,507.67	2,021.70	1,450.18	1,247.92	202.27	7.170		
12,300.00	7,806.94	12,566.27	7,806.96	103.14	107.26	-90.00	-5,607.67	2,022.30	1,450.19	1,244.53	205.65	7.052		
12,400.00	7,806.94	12,666.27	7,806.96	104.84	108.87	-90.00	-5,707.67	2,022.90	1,450.19	1,241.14	209.05	6.937		
12,500.00	7,806.93	12,766.27	7,806.96	106.54	110.49	-90.00	-5,807.67	2,023.50	1,450.19	1,237.75	212.45	6.826		
12,600.00	7,806.93	12,866.27	7,806.95	108.25	112.12	-90.00	-5,907.66	2,024.10	1,450.20	1,234.35	215.85	6.719		
12,700.00	7,806.93	12,966.27	7,806.95	109.95	113.75	-90.00	-6,007.66	2,024.70	1,450.20	1,230.95	219.26	6.614		
12,800.00	7,806.93	13,066.27	7,806.95	111.66	115.38	-90.00	-6,107.66	2,025.30	1,450.21	1,227.54	222.67	6.513		
12,900.00	7,806.93	13,166.27	7,806.95	113.37	117.02	-90.00	-6,207.66	2,025.90	1,450.21	1,224.12	226.08	6.414		
13,000.00	7,806.93	13,266.27	7,806.95	115.09	118.66	-90.00	-6,307.66	2,026.50	1,450.21	1,220.71	229.50	6.319		
13,100.00	7,806.93	13,366.27	7,806.95	116.80	120.30	-90.00	-6,407.66	2,027.09	1,450.22	1,217.29	232.93	6.226		
13,200.00	7,806.92	13,466.27	7,806.95	118.52	121.95	-90.00	-6,507.65	2,027.69	1,450.22	1,213.86	236.36	6.136		
13,300.00	7,806.92	13,566.27	7,806.95	120.24	123.60	-90.00	-6,607.65	2,028.29	1,450.22	1,210.44	239.79	6.048		
13,400.00	7,806.92	13,666.27	7,806.95	121.96	125.26	-90.00	-6,707.65	2,028.89	1,450.23	1,207.01	243.22	5.963		
13,500.00	7,806.92	13,766.27	7,806.94	123.68	126.92	-90.00	-6,807.65	2,029.49	1,450.23	1,203.57	246.66	5.880		
13,600.00	7,806.92	13,866.27	7,806.94	125.40	128.58	-90.00	-6,907.65	2,030.09	1,450.23	1,200.13	250.10	5.799		
13,700.00	7,806.92	13,966.27	7,806.94	127.12	130.25	-90.00	-7,007.65	2,030.69	1,450.24	1,196.69	253.54	5.720		
13,800.00	7,806.91	14,066.27	7,806.94	128.85	131.91	-90.00	-7,107.64	2,031.29	1,450.24	1,193.25	256.99	5.643		
13,900.00	7,806.91	14,166.27	7,806.94	130.58	133.58	-90.00	-7,207.64	2,031.89	1,450.24	1,189.81	260.44	5.569		
14,000.00	7,806.91	14,266.27	7,806.94	132.30	135.26	-90.00	-7,307.64	2,032.49	1,450.25	1,186.36	263.89	5.496		
14,100.00	7,806.91	14,366.27	7,806.94	134.03	136.93	-90.00	-7,407.64	2,033.09	1,450.25	1,182.91	267.34	5.425		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	14,466.27	7,806.94	135.76	138.61	-90.00	-7,507.64	2,033.69	1,450.25	1,179.46	270.80	5.355		
14,300.00	7,806.91	14,566.27	7,806.94	137.50	140.29	-90.00	-7,607.63	2,034.29	1,450.26	1,176.00	274.26	5.288		
14,400.00	7,806.91	14,666.27	7,806.93	139.23	141.98	-90.00	-7,707.63	2,034.89	1,450.26	1,172.54	277.72	5.222		
14,500.00	7,806.90	14,766.27	7,806.93	140.96	143.66	-90.00	-7,807.63	2,035.48	1,450.26	1,169.08	281.18	5.158		
14,600.00	7,806.90	14,866.27	7,806.93	142.70	145.35	-90.00	-7,907.63	2,036.08	1,450.27	1,165.62	284.64	5.095		
14,700.00	7,806.90	14,966.27	7,806.93	144.43	147.04	-90.00	-8,007.63	2,036.68	1,450.27	1,162.16	288.11	5.034		
14,800.00	7,806.90	15,066.27	7,806.93	146.17	148.73	-90.00	-8,107.63	2,037.28	1,450.27	1,158.69	291.58	4.974		
14,900.00	7,806.90	15,166.27	7,806.93	147.91	150.42	-90.00	-8,207.62	2,037.88	1,450.28	1,155.23	295.05	4.915		
15,000.00	7,806.90	15,266.27	7,806.93	149.64	152.12	-90.00	-8,307.62	2,038.48	1,450.28	1,151.76	298.52	4.858		
15,100.00	7,806.89	15,366.27	7,806.93	151.38	153.82	-90.00	-8,407.62	2,039.08	1,450.28	1,148.29	302.00	4.802		
15,200.00	7,806.89	15,466.27	7,806.93	153.12	155.52	-90.00	-8,507.62	2,039.68	1,450.29	1,144.81	305.47	4.748		
15,300.00	7,806.89	15,566.27	7,806.93	154.86	157.22	-90.00	-8,607.62	2,040.28	1,450.29	1,141.34	308.95	4.694		
15,400.00	7,806.89	15,666.27	7,806.92	156.60	158.92	-90.00	-8,707.61	2,040.88	1,450.30	1,137.87	312.43	4.642		
15,500.00	7,806.89	15,766.27	7,806.92	158.35	160.62	-90.00	-8,807.61	2,041.48	1,450.30	1,134.39	315.91	4.591		
15,600.00	7,806.89	15,866.27	7,806.92	160.09	162.33	-90.00	-8,907.61	2,042.08	1,450.30	1,130.91	319.39	4.541		
15,700.00	7,806.89	15,966.27	7,806.92	161.83	164.03	-90.00	-9,007.61	2,042.68	1,450.31	1,127.43	322.88	4.492		
15,800.00	7,806.88	16,066.27	7,806.92	163.57	165.74	-90.00	-9,107.61	2,043.28	1,450.31	1,123.95	326.36	4.444		
15,900.00	7,806.88	16,166.27	7,806.92	165.32	167.45	-90.00	-9,207.61	2,043.88	1,450.31	1,120.47	329.85	4.397		
16,000.00	7,806.88	16,266.27	7,806.92	167.06	169.16	-90.00	-9,307.60	2,044.47	1,450.32	1,116.98	333.33	4.351		
16,100.00	7,806.88	16,366.27	7,806.92	168.81	170.87	-90.00	-9,407.60	2,045.07	1,450.32	1,113.50	336.82	4.306		
16,200.00	7,806.88	16,466.27	7,806.92	170.56	172.59	-90.00	-9,507.60	2,045.67	1,450.32	1,110.01	340.31	4.262		
16,300.00	7,806.88	16,566.27	7,806.91	172.30	174.30	-90.00	-9,607.60	2,046.27	1,450.33	1,106.52	343.80	4.218		
16,400.00	7,806.87	16,666.27	7,806.91	174.05	176.02	-90.00	-9,707.60	2,046.87	1,450.33	1,103.04	347.29	4.176		
16,500.00	7,806.87	16,766.27	7,806.91	175.80	177.74	-90.00	-9,807.59	2,047.47	1,450.33	1,099.55	350.79	4.135		
16,600.00	7,806.87	16,866.27	7,806.91	177.55	179.45	-90.00	-9,907.59	2,048.07	1,450.34	1,096.06	354.28	4.094		
16,700.00	7,806.87	16,966.27	7,806.91	179.30	181.17	-90.00	-10,007.59	2,048.67	1,450.34	1,092.56	357.78	4.054		
16,800.00	7,806.87	17,066.27	7,806.91	181.04	182.89	-90.00	-10,107.59	2,049.27	1,450.34	1,089.07	361.27	4.015		
16,900.00	7,806.87	17,166.27	7,806.91	182.79	184.61	-90.00	-10,207.59	2,049.87	1,450.35	1,085.58	364.77	3.976		
17,000.00	7,806.87	17,266.27	7,806.91	184.54	186.34	-90.00	-10,307.59	2,050.47	1,450.35	1,082.08	368.27	3.938		
17,100.00	7,806.86	17,366.27	7,806.91	186.30	188.06	-90.00	-10,407.58	2,051.07	1,450.35	1,078.59	371.77	3.901		
17,200.00	7,806.86	17,466.27	7,806.91	188.05	189.78	-90.00	-10,507.58	2,051.67	1,450.36	1,075.09	375.27	3.865		
17,300.00	7,806.86	17,566.27	7,806.90	189.80	191.51	-90.00	-10,607.58	2,052.27	1,450.36	1,071.59	378.77	3.829		
17,400.00	7,806.86	17,666.27	7,806.90	191.55	193.23	-90.00	-10,707.58	2,052.86	1,450.36	1,068.10	382.27	3.794		
17,500.00	7,806.86	17,766.27	7,806.90	193.30	194.96	-90.00	-10,807.58	2,053.46	1,450.37	1,064.60	385.77	3.760		
17,600.00	7,806.86	17,866.27	7,806.90	195.06	196.69	-90.00	-10,907.58	2,054.06	1,450.37	1,061.10	389.27	3.726		
17,700.00	7,806.85	17,966.27	7,806.90	196.81	198.42	-90.00	-11,007.57	2,054.66	1,450.38	1,057.60	392.78	3.693		
17,800.00	7,806.85	18,066.27	7,806.90	198.56	200.15	-90.00	-11,107.57	2,055.26	1,450.38	1,054.10	396.28	3.660		
17,898.35	7,807.00	18,159.55	7,806.98	200.29	201.76	-90.00	-11,200.85	2,056.03	1,450.59	1,050.82	399.77	3.629 SF		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	-32.69	3,179.18	-2,039.92	3,777.36					
100.00	100.00	100.00	100.00	0.13	1.20	-32.69	3,179.18	-2,039.92	3,777.36	3,776.03	1.33	2,834.476		
200.00	200.00	200.00	200.00	0.49	3.49	-32.69	3,179.18	-2,039.92	3,777.36	3,773.38	3.98	948.902		
300.00	300.00	300.00	300.00	0.85	5.57	-32.69	3,179.18	-2,039.92	3,777.36	3,770.94	6.42	588.597		
400.00	400.00	400.00	400.00	1.21	7.61	-32.69	3,179.18	-2,039.92	3,777.36	3,768.54	8.82	428.358		
500.00	500.00	500.00	500.00	1.57	9.64	-32.69	3,179.18	-2,039.92	3,777.36	3,766.16	11.21	337.091		
600.00	600.00	600.00	600.00	1.93	11.66	-32.69	3,179.18	-2,039.92	3,777.36	3,763.77	13.59	278.013		
700.00	700.00	700.00	700.00	2.29	13.68	-32.69	3,179.18	-2,039.92	3,777.36	3,761.40	15.96	236.606		
800.00	800.00	800.00	800.00	2.64	15.70	-32.69	3,179.18	-2,039.92	3,777.36	3,759.02	18.34	205.959		
900.00	900.00	900.00	900.00	3.00	17.71	-32.69	3,179.18	-2,039.92	3,777.36	3,756.65	20.71	182.353		
1,000.00	1,000.00	1,000.00	1,000.00	3.36	19.73	-32.69	3,179.18	-2,039.92	3,777.36	3,754.27	23.09	163.609		
1,100.00	1,100.00	1,100.00	1,100.00	3.72	21.74	-32.69	3,179.18	-2,039.92	3,777.36	3,751.90	25.46	148.363		
1,200.00	1,200.00	1,200.00	1,200.00	4.08	23.75	-32.69	3,179.18	-2,039.92	3,777.36	3,749.53	27.83	135.719		
1,300.00	1,300.00	1,300.00	1,300.00	4.44	25.77	-32.69	3,179.18	-2,039.92	3,777.36	3,747.16	30.20	125.062 CC		
1,400.00	1,399.98	1,400.02	1,399.98	4.78	27.78	176.02	3,179.18	-2,039.92	3,779.10	3,746.54	32.56	116.070 ES		
1,500.00	1,499.84	1,500.16	1,499.84	5.11	29.80	176.02	3,179.18	-2,039.92	3,784.32	3,749.42	34.90	108.422		
1,600.00	1,599.45	1,600.55	1,599.45	5.44	31.82	176.01	3,179.18	-2,039.92	3,793.02	3,755.76	37.26	101.807		
1,700.00	1,698.70	1,701.30	1,698.70	5.79	33.84	176.01	3,179.18	-2,039.92	3,805.17	3,765.55	39.62	96.040		
1,800.00	1,797.47	1,802.53	1,797.47	6.15	35.88	176.00	3,179.18	-2,039.92	3,820.78	3,778.78	42.00	90.978		
1,900.00	1,895.62	1,904.38	1,895.62	6.53	37.93	176.00	3,179.18	-2,039.92	3,839.82	3,795.43	44.39	86.507		
1,912.93	1,908.27	1,908.27	1,908.27	6.58	38.01	175.99	3,179.18	-2,039.92	3,842.53	3,798.01	44.51	86.325		
2,000.00	1,993.35	2,006.65	1,993.35	6.93	39.99	176.01	3,179.18	-2,039.92	3,860.97	3,814.18	46.79	82.522		
2,100.00	2,091.07	2,108.93	2,091.07	7.34	42.04	176.03	3,179.18	-2,039.92	3,882.15	3,832.97	49.19	78.925		
2,200.00	2,188.79	2,188.79	2,188.79	7.77	43.65	176.06	3,179.18	-2,039.92	3,903.34	3,852.20	51.14	76.324		
2,300.00	2,286.51	2,286.51	2,286.51	8.20	45.62	176.08	3,179.18	-2,039.92	3,924.52	3,871.07	53.46	73.414		
2,400.00	2,384.23	2,384.23	2,384.23	8.65	47.58	176.10	3,179.18	-2,039.92	3,945.71	3,889.93	55.78	70.742		
2,500.00	2,481.95	2,481.95	2,481.95	9.10	49.55	176.12	3,179.18	-2,039.92	3,966.89	3,908.80	58.10	68.280		
2,600.00	2,579.67	2,579.67	2,579.67	9.56	51.51	176.14	3,179.18	-2,039.92	3,988.08	3,927.66	60.42	66.005		
2,700.00	2,677.39	2,677.39	2,677.39	10.02	53.48	176.16	3,179.18	-2,039.92	4,009.27	3,946.52	62.75	63.896		
2,800.00	2,775.11	2,775.11	2,775.11	10.49	55.45	176.18	3,179.18	-2,039.92	4,030.45	3,965.38	65.07	61.937		
2,900.00	2,872.83	2,872.83	2,872.83	10.96	57.41	176.20	3,179.18	-2,039.92	4,051.64	3,984.24	67.40	60.112		
3,000.00	2,970.55	2,970.55	2,970.55	11.44	59.38	176.22	3,179.18	-2,039.92	4,072.83	4,003.10	69.73	58.407		
3,100.00	3,068.27	3,068.27	3,068.27	11.92	61.34	176.24	3,179.18	-2,039.92	4,094.02	4,021.96	72.06	56.812		
3,200.00	3,165.99	3,165.99	3,165.99	12.40	63.31	176.26	3,179.18	-2,039.92	4,115.21	4,040.81	74.39	55.316		
3,300.00	3,263.71	3,263.71	3,263.71	12.88	65.27	176.28	3,179.18	-2,039.92	4,136.40	4,059.67	76.73	53.910		
3,400.00	3,361.43	3,361.43	3,361.43	13.37	67.24	176.30	3,179.18	-2,039.92	4,157.59	4,078.53	79.06	52.586		
3,500.00	3,459.15	3,459.15	3,459.15	13.86	69.20	176.32	3,179.18	-2,039.92	4,178.78	4,097.38	81.40	51.338		
3,600.00	3,556.87	3,556.87	3,556.87	14.35	71.17	176.34	3,179.18	-2,039.92	4,199.97	4,116.24	83.73	50.159		
3,700.00	3,654.59	3,654.59	3,654.59	14.84	73.13	176.35	3,179.18	-2,039.92	4,221.16	4,135.09	86.07	49.044		
3,800.00	3,752.31	3,752.31	3,752.31	15.34	75.10	176.37	3,179.18	-2,039.92	4,242.35	4,153.95	88.41	47.987		
3,900.00	3,850.03	3,850.03	3,850.03	15.83	77.06	176.39	3,179.18	-2,039.92	4,263.54	4,172.80	90.74	46.985		
4,000.00	3,947.75	3,947.75	3,947.75	16.33	79.03	176.41	3,179.18	-2,039.92	4,284.74	4,191.66	93.08	46.032		
4,100.00	4,045.47	4,045.47	4,045.47	16.83	80.99	176.43	3,179.18	-2,039.92	4,305.93	4,210.51	95.42	45.126		
4,200.00	4,143.19	4,143.19	4,143.19	17.32	82.96	176.44	3,179.18	-2,039.92	4,327.12	4,229.36	97.76	44.263		
4,300.00	4,240.91	4,240.91	4,240.91	17.82	84.93	176.46	3,179.18	-2,039.92	4,348.32	4,248.22	100.10	43.440		
4,400.00	4,338.63	4,338.63	4,338.63	18.32	86.89	176.48	3,179.18	-2,039.92	4,369.51	4,267.07	102.44	42.655		
4,500.00	4,436.35	4,436.35	4,436.35	18.82	88.86	176.49	3,179.18	-2,039.92	4,390.71	4,285.93	104.78	41.904		
4,600.00	4,534.07	4,534.07	4,534.07	19.33	90.82	176.51	3,179.18	-2,039.92	4,411.90	4,304.78	107.12	41.187		
4,700.00	4,631.79	4,631.79	4,631.79	19.83	92.79	176.53	3,179.18	-2,039.92	4,433.10	4,323.63	109.46	40.499		
4,800.00	4,729.51	4,729.51	4,729.51	20.33	94.75	176.54	3,179.18	-2,039.92	4,454.29	4,342.49	111.80	39.841		
4,900.00	4,827.23	4,827.23	4,827.23	20.83	96.72	176.56	3,179.18	-2,039.92	4,475.49	4,361.34	114.14	39.209		
5,000.00	4,924.95	4,924.95	4,924.95	21.34	98.68	176.58	3,179.18	-2,039.92	4,496.68	4,380.20	116.49	38.603		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,022.67	5,022.67	21.84	100.65	176.59	3,179.18	-2,039.92	4,517.88	4,399.05	118.83	38.021		
5,200.00	5,120.39	5,120.39	5,120.39	22.35	102.61	176.61	3,179.18	-2,039.92	4,539.08	4,417.91	121.17	37.460		
5,300.00	5,218.11	5,218.11	5,218.11	22.85	104.58	176.63	3,179.18	-2,039.92	4,560.27	4,436.76	123.51	36.922		
5,400.00	5,315.83	5,315.83	5,315.83	23.36	106.54	176.64	3,179.18	-2,039.92	4,581.47	4,455.62	125.86	36.403		
5,500.00	5,413.55	5,413.55	5,413.55	23.86	108.51	176.66	3,179.18	-2,039.92	4,602.67	4,474.47	128.20	35.903		
5,600.00	5,511.27	5,511.27	5,511.27	24.37	110.47	176.67	3,179.18	-2,039.92	4,623.87	4,493.33	130.54	35.421		
5,700.00	5,608.99	5,608.99	5,608.99	24.88	112.44	176.69	3,179.18	-2,039.92	4,645.07	4,512.18	132.89	34.956		
5,800.00	5,706.71	5,706.71	5,706.71	25.38	114.40	176.70	3,179.18	-2,039.92	4,666.26	4,531.04	135.23	34.506		
5,900.00	5,804.43	5,804.43	5,804.43	25.89	116.37	176.72	3,179.18	-2,039.92	4,687.46	4,549.89	137.57	34.073		
6,000.00	5,902.15	5,902.15	5,902.15	26.40	118.33	176.73	3,179.18	-2,039.92	4,708.66	4,568.75	139.92	33.653		
6,100.00	5,999.87	6,000.14	5,999.87	26.91	120.30	176.75	3,179.18	-2,039.92	4,729.86	4,587.60	142.27	33.247		
6,200.00	6,097.59	6,102.42	6,097.59	27.42	122.36	176.76	3,179.18	-2,039.92	4,751.06	4,606.36	144.70	32.833		
6,300.00	6,195.30	6,204.70	6,195.30	27.92	124.42	176.78	3,179.18	-2,039.92	4,772.26	4,625.12	147.14	32.434		
6,400.00	6,293.02	6,306.98	6,293.02	28.43	126.48	176.79	3,179.18	-2,039.92	4,793.46	4,643.89	149.58	32.047		
6,500.00	6,390.74	6,409.26	6,390.74	28.94	128.53	176.80	3,179.18	-2,039.92	4,814.66	4,662.65	152.01	31.673		
6,600.00	6,488.46	6,488.46	6,488.46	29.45	130.13	176.82	3,179.18	-2,039.92	4,835.87	4,681.88	153.98	31.405		
6,638.14	6,525.73	6,525.73	6,525.73	29.64	130.87	176.82	3,179.18	-2,039.92	4,843.95	4,689.07	154.88	31.276		
6,700.00	6,586.32	6,586.32	6,586.32	29.95	132.09	176.85	3,179.18	-2,039.92	4,856.41	4,700.08	156.33	31.065		
6,800.00	6,684.79	6,684.79	6,684.79	30.42	134.07	176.88	3,179.18	-2,039.92	4,873.79	4,715.11	158.68	30.714		
6,900.00	6,783.81	6,783.81	6,783.81	30.85	136.06	176.90	3,179.18	-2,039.92	4,887.72	4,726.68	161.04	30.351		
7,000.00	6,883.25	6,883.25	6,883.25	31.24	138.06	176.92	3,179.18	-2,039.92	4,898.20	4,734.80	163.40	29.976		
7,100.00	6,983.00	6,983.00	6,983.00	31.60	140.07	176.93	3,179.18	-2,039.92	4,905.20	4,739.44	165.76	29.592		
7,200.00	7,082.93	7,082.93	7,082.93	31.92	142.08	176.94	3,179.18	-2,039.92	4,908.72	4,740.61	168.11	29.199		
7,251.07	7,134.00	7,134.00	7,134.00	32.06	143.11	-31.77	3,179.18	-2,039.92	4,909.18	4,739.87	169.31	28.995		
7,300.00	7,182.93	7,182.93	7,182.93	32.19	144.09	-31.77	3,179.18	-2,039.92	4,909.18	4,738.73	170.45	28.802		
7,351.07	7,234.00	7,234.00	7,234.00	32.32	145.12	-31.77	3,179.18	-2,039.92	4,909.18	4,737.54	171.63	28.603		
7,400.00	7,282.87	7,282.87	7,282.87	32.47	146.10	148.49	3,179.18	-2,039.92	4,910.96	4,738.18	172.78	28.423		
7,450.00	7,332.44	7,332.44	7,332.44	32.67	147.10	148.24	3,179.18	-2,039.92	4,916.45	4,742.49	173.96	28.262		
7,500.00	7,381.26	7,381.26	7,381.26	32.90	148.08	147.82	3,179.18	-2,039.92	4,925.61	4,750.48	175.13	28.125		
7,550.00	7,428.96	7,428.96	7,428.96	33.18	149.04	147.20	3,179.18	-2,039.92	4,938.38	4,762.09	176.29	28.013		
7,600.00	7,475.17	7,475.17	7,475.17	33.48	149.97	146.37	3,179.18	-2,039.92	4,954.67	4,777.26	177.42	27.927		
7,650.00	7,519.55	7,519.55	7,519.55	33.82	150.86	145.31	3,179.18	-2,039.92	4,974.38	4,795.87	178.51	27.866		
7,700.00	7,561.76	7,561.76	7,561.76	34.20	151.71	143.98	3,179.18	-2,039.92	4,997.36	4,817.80	179.55	27.832		
7,750.00	7,601.47	7,601.47	7,601.47	34.60	152.51	142.34	3,179.18	-2,039.92	5,023.45	4,842.90	180.54	27.824 SF		
7,800.00	7,638.39	7,638.39	7,638.39	35.04	153.25	140.33	3,179.18	-2,039.92	5,052.47	4,871.00	181.47	27.842		
7,850.00	7,672.23	7,672.23	7,672.23	35.50	153.93	137.87	3,179.18	-2,039.92	5,084.22	4,901.89	182.33	27.885		
7,900.00	7,702.74	7,702.74	7,702.74	35.99	154.54	134.89	3,179.18	-2,039.92	5,118.47	4,935.37	183.11	27.953		
7,950.00	7,729.67	7,729.67	7,729.67	36.50	155.09	131.25	3,179.18	-2,039.92	5,154.98	4,971.18	183.80	28.046		
8,000.00	7,752.84	7,752.84	7,752.84	37.04	155.55	126.84	3,179.18	-2,039.92	5,193.47	5,009.06	184.41	28.163		
8,050.00	7,772.06	7,772.06	7,772.06	37.60	155.94	121.52	3,179.18	-2,039.92	5,233.67	5,048.75	184.92	28.303		
8,100.00	7,787.18	7,787.18	7,787.18	38.17	156.24	115.17	3,179.18	-2,039.92	5,275.28	5,089.94	185.33	28.464		
8,150.00	7,798.10	7,801.90	7,798.10	38.76	156.54	107.73	3,179.18	-2,039.92	5,317.98	5,132.26	185.72	28.634		
8,200.00	7,804.72	7,804.72	7,804.72	39.36	156.60	99.32	3,179.18	-2,039.92	5,361.46	5,175.61	185.85	28.848		
8,251.15	7,807.00	7,807.00	7,807.00	39.97	156.64	90.00	3,179.18	-2,039.92	5,406.40	5,220.43	185.96	29.072		
8,300.00	7,807.00	7,807.00	7,807.00	40.56	156.64	90.00	3,179.18	-2,039.92	5,449.48	5,263.46	186.02	29.295		
8,400.00	7,807.00	7,807.00	7,807.00	41.80	156.64	90.00	3,179.18	-2,039.92	5,537.96	5,351.82	186.14	29.752		
8,500.00	7,807.00	7,807.00	7,807.00	43.08	156.64	90.00	3,179.18	-2,039.92	5,626.83	5,440.56	186.27	30.209		
8,600.00	7,806.99	7,806.99	7,806.99	44.40	156.64	90.00	3,179.18	-2,039.92	5,716.06	5,529.66	186.40	30.666		
8,700.00	7,806.99	7,806.99	7,806.99	45.74	156.64	90.00	3,179.18	-2,039.92	5,805.65	5,619.11	186.54	31.123		
8,800.00	7,806.99	7,806.99	7,806.99	47.11	156.64	90.00	3,179.18	-2,039.92	5,895.57	5,708.89	186.68	31.581		
8,900.00	7,806.99	7,806.99	7,806.99	48.51	156.64	90.00	3,179.18	-2,039.92	5,985.81	5,798.98	186.83	32.038		
9,000.00	7,806.99	7,806.99	7,806.99	49.93	156.64	90.00	3,179.18	-2,039.92	6,076.36	5,889.37	186.98	32.497		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	
9,100.00	7,806.99	7,806.99	7,806.99	51.38	156.64	90.00	3,179.18	-2,039.92	6,167.20	5,980.06	187.14	32.955	
9,200.00	7,806.99	7,806.99	7,806.99	52.84	156.64	90.00	3,179.18	-2,039.92	6,258.31	6,071.02	187.30	33.414	
9,300.00	7,806.98	7,806.98	7,806.98	54.32	156.64	90.00	3,179.18	-2,039.92	6,349.70	6,162.24	187.46	33.873	
9,400.00	7,806.98	7,806.98	7,806.98	55.82	156.64	90.00	3,179.18	-2,039.92	6,441.34	6,253.72	187.62	34.332	
9,500.00	7,806.98	7,806.98	7,806.98	57.34	156.64	90.00	3,179.18	-2,039.92	6,533.23	6,345.45	187.78	34.791	
9,600.00	7,806.98	7,806.98	7,806.98	58.87	156.64	90.00	3,179.18	-2,039.92	6,625.35	6,437.40	187.95	35.251	
9,700.00	7,806.98	7,806.98	7,806.98	60.41	156.64	90.00	3,179.18	-2,039.92	6,717.70	6,529.58	188.11	35.711	
9,800.00	7,806.98	7,806.98	7,806.98	61.96	156.64	90.00	3,179.18	-2,039.92	6,810.26	6,621.98	188.28	36.171	
9,900.00	7,806.97	7,806.97	7,806.97	63.53	156.64	90.00	3,179.18	-2,039.92	6,903.03	6,714.59	188.44	36.632	
10,000.00	7,806.97	7,806.97	7,806.97	65.10	156.64	90.00	3,179.18	-2,039.92	6,996.00	6,807.39	188.61	37.092	
10,100.00	7,806.97	7,806.97	7,806.97	66.69	156.64	90.00	3,179.18	-2,039.92	7,089.16	6,900.39	188.78	37.553	
10,200.00	7,806.97	7,806.97	7,806.97	68.29	156.64	90.00	3,179.18	-2,039.92	7,182.51	6,993.56	188.94	38.014	
10,300.00	7,806.97	7,806.97	7,806.97	69.89	156.64	90.00	3,179.18	-2,039.92	7,276.03	7,086.92	189.11	38.476	
10,400.00	7,806.97	7,806.97	7,806.97	71.50	156.64	90.00	3,179.18	-2,039.92	7,369.72	7,180.45	189.27	38.937	
10,500.00	7,806.97	7,806.97	7,806.97	73.12	156.64	90.00	3,179.18	-2,039.92	7,463.58	7,274.14	189.44	39.399	
10,600.00	7,806.96	7,806.96	7,806.96	74.75	156.64	90.00	3,179.18	-2,039.92	7,557.59	7,367.99	189.60	39.860	
10,700.00	7,806.96	7,806.96	7,806.96	76.38	156.64	90.00	3,179.18	-2,039.92	7,651.75	7,461.99	189.76	40.322	
10,800.00	7,806.96	7,806.96	7,806.96	78.02	156.64	90.00	3,179.18	-2,039.92	7,746.07	7,556.14	189.93	40.785	
10,900.00	7,806.96	7,806.96	7,806.96	79.66	156.64	90.00	3,179.18	-2,039.92	7,840.52	7,650.43	190.09	41.247	
11,000.00	7,806.96	7,806.96	7,806.96	81.31	156.64	90.00	3,179.18	-2,039.92	7,935.11	7,744.86	190.25	41.709	
11,100.00	7,806.96	7,806.96	7,806.96	82.97	156.64	90.00	3,179.18	-2,039.92	8,029.83	7,839.42	190.41	42.172	
11,200.00	7,806.95	7,806.95	7,806.95	84.63	156.64	90.00	3,179.18	-2,039.92	8,124.67	7,934.11	190.57	42.634	
11,300.00	7,806.95	7,806.95	7,806.95	86.29	156.64	90.00	3,179.18	-2,039.92	8,219.64	8,028.92	190.72	43.097	
11,400.00	7,806.95	7,806.95	7,806.95	87.96	156.64	90.00	3,179.18	-2,039.92	8,314.73	8,123.85	190.88	43.560	
11,500.00	7,806.95	7,806.95	7,806.95	89.64	156.64	90.00	3,179.18	-2,039.92	8,409.93	8,218.89	191.04	44.023	
11,600.00	7,806.95	7,806.95	7,806.95	91.31	156.64	90.00	3,179.18	-2,039.92	8,505.24	8,314.05	191.19	44.486	
11,700.00	7,806.95	7,806.95	7,806.95	92.99	156.64	90.00	3,179.18	-2,039.92	8,600.65	8,409.31	191.34	44.949	
11,800.00	7,806.95	7,806.95	7,806.95	94.68	156.64	90.00	3,179.18	-2,039.92	8,696.17	8,504.68	191.50	45.412	
11,900.00	7,806.94	7,806.94	7,806.94	96.36	156.64	90.00	3,179.18	-2,039.92	8,791.79	8,600.14	191.65	45.875	
12,000.00	7,806.94	7,806.94	7,806.94	98.05	156.64	90.00	3,179.18	-2,039.92	8,887.51	8,695.71	191.80	46.338	
12,100.00	7,806.94	7,806.94	7,806.94	99.74	156.64	90.00	3,179.18	-2,039.92	8,983.32	8,791.37	191.95	46.801	
12,200.00	7,806.94	7,806.94	7,806.94	101.44	156.64	90.00	3,179.18	-2,039.92	9,079.22	8,887.12	192.10	47.264	
12,300.00	7,806.94	7,806.94	7,806.94	103.14	156.64	90.00	3,179.18	-2,039.92	9,175.20	8,982.96	192.24	47.727	
12,400.00	7,806.94	7,806.94	7,806.94	104.84	156.64	90.00	3,179.18	-2,039.92	9,271.28	9,078.89	192.39	48.190	
12,500.00	7,806.93	7,806.93	7,806.93	106.54	156.64	90.00	3,179.18	-2,039.92	9,367.43	9,174.90	192.53	48.653	
12,600.00	7,806.93	7,806.93	7,806.93	108.25	156.64	90.00	3,179.18	-2,039.92	9,463.66	9,270.99	192.68	49.116	
12,700.00	7,806.93	7,806.93	7,806.93	109.95	156.64	90.00	3,179.18	-2,039.92	9,559.98	9,367.15	192.82	49.579	
12,800.00	7,806.93	7,806.93	7,806.93	111.66	156.64	90.00	3,179.18	-2,039.92	9,656.36	9,463.40	192.96	50.042	
12,900.00	7,806.93	7,806.93	7,806.93	113.37	156.64	90.00	3,179.18	-2,039.92	9,752.82	9,559.72	193.10	50.505	
13,000.00	7,806.93	7,806.93	7,806.93	115.09	156.64	90.00	3,179.18	-2,039.92	9,849.35	9,656.11	193.24	50.968	
13,100.00	7,806.93	7,806.93	7,806.93	116.80	156.64	90.00	3,179.18	-2,039.92	9,945.95	9,752.56	193.38	51.431	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	18.08	880.89	287.55	926.63					
100.00	100.00	119.00	119.00	0.13	1.56	18.08	880.89	287.55	926.63	924.94	1.69	547.905		
200.00	200.00	219.00	219.00	0.49	3.82	18.08	880.89	287.55	926.63	922.32	4.31	214.794		
300.00	300.00	319.00	319.00	0.85	5.89	18.08	880.89	287.55	926.63	919.89	6.75	137.379		
400.00	400.00	419.00	419.00	1.21	7.93	18.08	880.89	287.55	926.63	917.49	9.14	101.343		
500.00	500.00	519.00	519.00	1.57	9.96	18.08	880.89	287.55	926.63	915.10	11.53	80.367		
600.00	600.00	619.00	619.00	1.93	11.98	18.08	880.89	287.55	926.63	912.72	13.91	66.614		
700.00	700.00	719.00	719.00	2.29	14.00	18.08	880.89	287.55	926.63	910.34	16.29	56.891		
800.00	800.00	819.00	819.00	2.64	16.02	18.08	880.89	287.55	926.63	907.97	18.66	49.650		
900.00	900.00	919.00	919.00	3.00	18.04	18.08	880.89	287.55	926.63	905.59	21.04	44.047		
1,000.00	1,000.00	1,019.00	1,019.00	3.36	20.05	18.08	880.89	287.55	926.63	903.22	23.41	39.582		
1,100.00	1,100.00	1,119.00	1,119.00	3.72	22.06	18.08	880.89	287.55	926.63	900.85	25.78	35.940		
1,200.00	1,200.00	1,219.00	1,219.00	4.08	24.08	18.08	880.89	287.55	926.63	898.48	28.15	32.912		
1,300.00	1,300.00	1,319.00	1,319.00	4.44	26.09	18.08	880.89	287.55	926.63	896.11	30.53	30.355 CC		
1,400.00	1,399.98	1,418.98	1,418.98	4.78	28.10	-133.28	880.89	287.55	927.83	894.95	32.88	28.218 ES		
1,500.00	1,499.84	1,518.84	1,518.84	5.11	30.11	-133.46	880.89	287.55	931.42	896.20	35.22	26.446		
1,600.00	1,599.45	1,618.45	1,618.45	5.44	32.12	-133.76	880.89	287.55	937.45	899.89	37.56	24.959		
1,700.00	1,698.70	1,717.70	1,717.70	5.79	34.11	-134.17	880.89	287.55	945.94	906.04	39.90	23.708		
1,800.00	1,797.47	1,816.47	1,816.47	6.15	36.10	-134.68	880.89	287.55	956.96	914.72	42.24	22.657		
1,900.00	1,895.62	1,914.62	1,914.62	6.53	38.08	-135.28	880.89	287.55	970.57	926.00	44.57	21.775		
1,912.93	1,908.27	1,927.27	1,927.27	6.58	38.33	-135.36	880.89	287.55	972.53	927.65	44.88	21.671		
2,000.00	1,993.35	2,012.35	2,012.35	6.93	40.04	-136.11	880.89	287.55	985.91	939.00	46.91	21.018		
2,100.00	2,091.07	2,110.07	2,110.07	7.34	42.01	-136.94	880.89	287.55	1,001.49	952.24	49.25	20.335		
2,200.00	2,188.79	2,207.79	2,207.79	7.77	43.97	-137.75	880.89	287.55	1,017.27	965.68	51.59	19.717		
2,300.00	2,286.51	2,305.51	2,305.51	8.20	45.94	-138.53	880.89	287.55	1,033.25	979.30	53.94	19.154		
2,400.00	2,384.23	2,403.23	2,403.23	8.65	47.90	-139.29	880.89	287.55	1,049.41	993.11	56.30	18.641		
2,500.00	2,481.95	2,500.95	2,500.95	9.10	49.87	-140.03	880.89	287.55	1,065.75	1,007.10	58.65	18.171		
2,600.00	2,579.67	2,601.33	2,598.67	9.56	51.89	-140.75	880.89	287.55	1,082.26	1,021.20	61.06	17.724		
2,700.00	2,677.39	2,703.61	2,696.39	10.02	53.95	-141.44	880.89	287.55	1,098.93	1,035.42	63.51	17.303		
2,800.00	2,775.11	2,805.89	2,794.11	10.49	56.00	-142.12	880.89	287.55	1,115.76	1,049.80	65.96	16.916		
2,900.00	2,872.83	2,908.17	2,891.83	10.96	58.06	-142.77	880.89	287.55	1,132.73	1,064.32	68.41	16.558		
3,000.00	2,970.55	2,989.55	2,989.55	11.44	59.70	-143.41	880.89	287.55	1,149.85	1,079.41	70.44	16.324		
3,100.00	3,068.27	3,087.27	3,087.27	11.92	61.66	-144.02	880.89	287.55	1,167.10	1,094.30	72.80	16.032		
3,200.00	3,165.99	3,184.99	3,184.99	12.40	63.63	-144.62	880.89	287.55	1,184.48	1,109.33	75.16	15.760		
3,300.00	3,263.71	3,282.71	3,282.71	12.88	65.59	-145.20	880.89	287.55	1,201.99	1,124.47	77.51	15.507		
3,400.00	3,361.43	3,380.43	3,380.43	13.37	67.56	-145.77	880.89	287.55	1,219.61	1,139.74	79.87	15.270		
3,500.00	3,459.15	3,478.15	3,478.15	13.86	69.52	-146.32	880.89	287.55	1,237.35	1,155.12	82.23	15.048		
3,600.00	3,556.87	3,575.87	3,575.87	14.35	71.49	-146.85	880.89	287.55	1,255.19	1,170.61	84.59	14.839		
3,700.00	3,654.59	3,673.59	3,673.59	14.84	73.46	-147.37	880.89	287.55	1,273.14	1,186.20	86.94	14.644		
3,800.00	3,752.31	3,771.31	3,771.31	15.34	75.42	-147.87	880.89	287.55	1,291.19	1,201.89	89.30	14.460		
3,900.00	3,850.03	3,869.03	3,869.03	15.83	77.39	-148.37	880.89	287.55	1,309.33	1,217.68	91.65	14.286		
4,000.00	3,947.75	3,966.75	3,966.75	16.33	79.35	-148.84	880.89	287.55	1,327.57	1,233.56	94.01	14.122		
4,100.00	4,045.47	4,064.47	4,064.47	16.83	81.32	-149.31	880.89	287.55	1,345.89	1,249.53	96.36	13.967		
4,200.00	4,143.19	4,162.19	4,162.19	17.32	83.28	-149.76	880.89	287.55	1,364.30	1,265.59	98.71	13.821		
4,300.00	4,240.91	4,259.91	4,259.91	17.82	85.25	-150.20	880.89	287.55	1,382.79	1,281.72	101.07	13.682		
4,400.00	4,338.63	4,357.63	4,357.63	18.32	87.21	-150.63	880.89	287.55	1,401.36	1,297.94	103.42	13.550		
4,500.00	4,436.35	4,455.35	4,455.35	18.82	89.18	-151.05	880.89	287.55	1,420.00	1,314.23	105.77	13.425		
4,600.00	4,534.07	4,553.07	4,553.07	19.33	91.14	-151.46	880.89	287.55	1,438.71	1,330.59	108.12	13.306		
4,700.00	4,631.79	4,650.79	4,650.79	19.83	93.11	-151.85	880.89	287.55	1,457.50	1,347.02	110.47	13.193		
4,800.00	4,729.51	4,748.51	4,748.51	20.33	95.07	-152.24	880.89	287.55	1,476.34	1,363.52	112.82	13.086		
4,900.00	4,827.23	4,846.23	4,846.23	20.83	97.04	-152.62	880.89	287.55	1,495.26	1,380.08	115.17	12.983		
5,000.00	4,924.95	4,943.95	4,943.95	21.34	99.00	-152.98	880.89	287.55	1,514.23	1,396.71	117.52	12.885		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,041.67	5,041.67	21.84	100.97	-153.34	880.89	287.55	1,533.27	1,413.39	119.87	12.791		
5,200.00	5,120.39	5,139.39	5,139.39	22.35	102.93	-153.69	880.89	287.55	1,552.36	1,430.14	122.22	12.701		
5,300.00	5,218.11	5,237.11	5,237.11	22.85	104.90	-154.03	880.89	287.55	1,571.50	1,446.93	124.57	12.616		
5,400.00	5,315.83	5,334.83	5,334.83	23.36	106.86	-154.37	880.89	287.55	1,590.70	1,463.78	126.92	12.533		
5,500.00	5,413.55	5,432.55	5,432.55	23.86	108.83	-154.69	880.89	287.55	1,609.95	1,480.68	129.26	12.455		
5,600.00	5,511.27	5,530.27	5,530.27	24.37	110.80	-155.01	880.89	287.55	1,629.25	1,497.64	131.61	12.379		
5,700.00	5,608.99	5,627.99	5,627.99	24.88	112.76	-155.32	880.89	287.55	1,648.59	1,514.64	133.96	12.307		
5,800.00	5,706.71	5,725.71	5,725.71	25.38	114.73	-155.63	880.89	287.55	1,667.99	1,531.68	136.31	12.237		
5,900.00	5,804.43	5,823.43	5,823.43	25.89	116.69	-155.92	880.89	287.55	1,687.42	1,548.77	138.65	12.170		
6,000.00	5,902.15	5,921.15	5,921.15	26.40	118.66	-156.21	880.89	287.55	1,706.90	1,565.90	141.00	12.106		
6,100.00	5,999.87	6,018.87	6,018.87	26.91	120.62	-156.49	880.89	287.55	1,726.42	1,583.08	143.35	12.044		
6,200.00	6,097.59	6,116.59	6,116.59	27.42	122.59	-156.77	880.89	287.55	1,745.98	1,600.29	145.69	11.984		
6,300.00	6,195.30	6,214.30	6,214.30	27.92	124.55	-157.04	880.89	287.55	1,765.58	1,617.55	148.04	11.927		
6,400.00	6,293.02	6,312.02	6,312.02	28.43	126.52	-157.31	880.89	287.55	1,785.22	1,634.84	150.38	11.871		
6,500.00	6,390.74	6,409.74	6,409.74	28.94	128.48	-157.57	880.89	287.55	1,804.89	1,652.16	152.73	11.818		
6,600.00	6,488.46	6,507.46	6,507.46	29.45	130.45	-157.82	880.89	287.55	1,824.60	1,669.53	155.07	11.766		
6,638.14	6,525.73	6,544.73	6,544.73	29.64	131.20	-157.92	880.89	287.55	1,832.13	1,676.16	155.97	11.747		
6,700.00	6,586.32	6,605.32	6,605.32	29.95	132.41	-158.15	880.89	287.55	1,843.73	1,686.31	157.42	11.712		
6,800.00	6,684.79	6,703.79	6,703.79	30.42	134.40	-158.47	880.89	287.55	1,859.94	1,700.16	159.77	11.641		
6,900.00	6,783.81	6,802.81	6,802.81	30.85	136.39	-158.72	880.89	287.55	1,872.94	1,710.82	162.13	11.552		
7,000.00	6,883.25	6,902.25	6,902.25	31.24	138.39	-158.91	880.89	287.55	1,882.73	1,718.25	164.48	11.447		
7,100.00	6,983.00	7,002.00	7,002.00	31.60	140.39	-159.03	880.89	287.55	1,889.28	1,722.45	166.83	11.324		
7,200.00	7,082.93	7,101.93	7,101.93	31.92	142.40	-159.09	880.89	287.55	1,892.57	1,723.40	169.18	11.187		
7,251.07	7,134.00	7,153.00	7,153.00	32.06	143.43	-7.80	880.89	287.55	1,893.00	1,722.63	170.37	11.111		
7,300.00	7,182.93	7,201.93	7,201.93	32.19	144.41	-7.80	880.89	287.55	1,893.00	1,721.50	171.50	11.038		
7,351.07	7,234.00	7,253.00	7,253.00	32.32	145.44	-7.80	880.89	287.55	1,893.00	1,720.31	172.69	10.962		
7,400.00	7,282.87	7,301.87	7,301.87	32.47	146.42	172.52	880.89	287.55	1,895.07	1,721.24	173.83	10.902		
7,450.00	7,332.44	7,351.44	7,351.44	32.67	147.42	172.46	880.89	287.55	1,901.45	1,726.45	175.00	10.865		
7,500.00	7,381.26	7,400.26	7,400.26	32.90	148.40	172.36	880.89	287.55	1,912.08	1,735.92	176.16	10.854 SF		
7,550.00	7,428.96	7,447.96	7,447.96	33.18	149.36	172.21	880.89	287.55	1,926.90	1,749.59	177.31	10.868		
7,600.00	7,475.17	7,505.83	7,494.17	33.48	150.52	172.01	880.89	287.55	1,945.79	1,767.13	178.65	10.891		
7,650.00	7,519.55	7,538.55	7,538.55	33.82	151.18	171.74	880.89	287.55	1,968.60	1,789.11	179.49	10.968		
7,700.00	7,561.76	7,580.76	7,580.76	34.20	152.03	171.39	880.89	287.55	1,995.17	1,814.65	180.52	11.052		
7,750.00	7,601.47	7,620.47	7,620.47	34.60	152.83	170.94	880.89	287.55	2,025.29	1,843.81	181.48	11.160		
7,800.00	7,638.39	7,657.39	7,657.39	35.04	153.57	170.36	880.89	287.55	2,058.75	1,876.36	182.38	11.288		
7,850.00	7,672.23	7,708.77	7,691.23	35.50	154.61	169.61	880.89	287.55	2,095.28	1,911.72	183.56	11.415		
7,900.00	7,702.74	7,721.74	7,721.74	35.99	154.87	168.60	880.89	287.55	2,134.60	1,950.66	183.95	11.604		
7,950.00	7,729.67	7,748.67	7,748.67	36.50	155.41	167.23	880.89	287.55	2,176.43	1,991.83	184.60	11.790		
8,000.00	7,752.84	7,771.84	7,771.84	37.04	155.87	165.29	880.89	287.55	2,220.45	2,035.28	185.16	11.992		
8,050.00	7,772.06	7,808.94	7,791.06	37.60	156.62	162.39	880.89	287.55	2,266.31	2,080.33	185.98	12.186		
8,100.00	7,787.18	7,806.18	7,806.18	38.17	156.56	157.71	880.89	287.55	2,313.68	2,127.69	185.99	12.440		
8,150.00	7,798.10	7,817.10	7,817.10	38.76	156.78	149.20	880.89	287.55	2,362.18	2,175.94	186.25	12.683		
8,200.00	7,804.72	7,823.72	7,823.72	39.36	156.92	131.01	880.89	287.55	2,411.46	2,225.06	186.40	12.937		
8,251.15	7,807.00	7,826.00	7,826.00	39.97	156.96	89.99	880.89	287.55	2,462.28	2,275.82	186.46	13.206		
8,300.00	7,807.00	7,826.00	7,826.00	40.56	156.96	89.99	880.89	287.55	2,510.89	2,324.44	186.46	13.466		
8,400.00	7,807.00	7,826.00	7,826.00	41.80	156.96	89.99	880.89	287.55	2,610.43	2,423.97	186.46	14.000		
8,500.00	7,807.00	7,826.00	7,826.00	43.08	156.96	89.99	880.89	287.55	2,710.00	2,523.54	186.46	14.534		
8,600.00	7,806.99	7,825.99	7,825.99	44.40	156.96	89.99	880.89	287.55	2,809.61	2,623.14	186.47	15.067		
8,700.00	7,806.99	7,825.99	7,825.99	45.74	156.96	89.99	880.89	287.55	2,909.24	2,722.76	186.48	15.601		
8,800.00	7,806.99	7,825.99	7,825.99	47.11	156.96	89.99	880.89	287.55	3,008.89	2,822.40	186.49	16.135		
8,900.00	7,806.99	7,825.99	7,825.99	48.51	156.96	89.99	880.89	287.55	3,108.57	2,922.07	186.50	16.668		
9,000.00	7,806.99	7,825.99	7,825.99	49.93	156.96	89.99	880.89	287.55	3,208.26	3,021.75	186.51	17.202		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,825.99	7,825.99	51.38	156.96	89.99	880.89	287.55	3,307.98	3,121.45	186.52	17.735		
9,200.00	7,806.99	7,825.99	7,825.99	52.84	156.96	89.99	880.89	287.55	3,407.71	3,221.17	186.54	18.268		
9,300.00	7,806.98	7,825.98	7,825.98	54.32	156.96	89.99	880.89	287.55	3,507.46	3,320.90	186.56	18.801		
9,400.00	7,806.98	7,825.98	7,825.98	55.82	156.96	89.99	880.89	287.55	3,607.22	3,420.64	186.57	19.334		
9,500.00	7,806.98	7,825.98	7,825.98	57.34	156.96	89.99	880.89	287.55	3,706.99	3,520.40	186.59	19.867		
9,600.00	7,806.98	7,825.98	7,825.98	58.87	156.96	89.99	880.89	287.55	3,806.78	3,620.16	186.62	20.399		
9,700.00	7,806.98	7,825.98	7,825.98	60.41	156.96	89.99	880.89	287.55	3,906.57	3,719.94	186.64	20.931		
9,800.00	7,806.98	7,825.98	7,825.98	61.96	156.96	89.99	880.89	287.55	4,006.38	3,819.72	186.66	21.463		
9,900.00	7,806.97	7,825.97	7,825.97	63.53	156.96	89.99	880.89	287.55	4,106.20	3,919.51	186.69	21.995		
10,000.00	7,806.97	7,825.97	7,825.97	65.10	156.96	89.98	880.89	287.55	4,206.02	4,019.31	186.71	22.527		
10,100.00	7,806.97	7,825.97	7,825.97	66.69	156.96	89.98	880.89	287.55	4,305.85	4,119.12	186.74	23.058		
10,200.00	7,806.97	7,825.97	7,825.97	68.29	156.96	89.98	880.89	287.55	4,405.69	4,218.93	186.77	23.589		
10,300.00	7,806.97	7,825.97	7,825.97	69.89	156.96	89.98	880.89	287.55	4,505.54	4,318.75	186.80	24.120		
10,400.00	7,806.97	7,825.97	7,825.97	71.50	156.96	89.98	880.89	287.55	4,605.40	4,418.57	186.83	24.651		
10,500.00	7,806.97	7,825.97	7,825.97	73.12	156.96	89.98	880.89	287.55	4,705.26	4,518.40	186.86	25.181		
10,600.00	7,806.96	7,825.96	7,825.96	74.75	156.96	89.98	880.89	287.55	4,805.12	4,618.23	186.89	25.711		
10,700.00	7,806.96	7,825.96	7,825.96	76.38	156.96	89.98	880.89	287.55	4,904.99	4,718.07	186.92	26.241		
10,800.00	7,806.96	7,825.96	7,825.96	78.02	156.96	89.98	880.89	287.55	5,004.87	4,817.91	186.96	26.770		
10,900.00	7,806.96	7,825.96	7,825.96	79.66	156.96	89.98	880.89	287.55	5,104.75	4,917.76	186.99	27.299		
11,000.00	7,806.96	7,825.96	7,825.96	81.31	156.96	89.98	880.89	287.55	5,204.64	5,017.61	187.03	27.828		
11,100.00	7,806.96	7,825.96	7,825.96	82.97	156.96	89.98	880.89	287.55	5,304.53	5,117.46	187.07	28.357		
11,200.00	7,806.95	7,825.95	7,825.95	84.63	156.96	89.98	880.89	287.55	5,404.42	5,217.32	187.10	28.885		
11,300.00	7,806.95	7,825.95	7,825.95	86.29	156.96	89.98	880.89	287.55	5,504.32	5,317.18	187.14	29.412		
11,400.00	7,806.95	7,825.95	7,825.95	87.96	156.96	89.98	880.89	287.55	5,604.22	5,417.04	187.18	29.940		
11,500.00	7,806.95	7,825.95	7,825.95	89.64	156.96	89.98	880.89	287.55	5,704.13	5,516.91	187.22	30.467		
11,600.00	7,806.95	7,825.95	7,825.95	91.31	156.96	89.98	880.89	287.55	5,804.04	5,616.77	187.27	30.994		
11,700.00	7,806.95	7,825.95	7,825.95	92.99	156.96	89.98	880.89	287.55	5,903.95	5,716.64	187.31	31.520		
11,800.00	7,806.95	7,825.95	7,825.95	94.68	156.96	89.98	880.89	287.55	6,003.86	5,816.51	187.35	32.046		
11,900.00	7,806.94	7,825.94	7,825.94	96.36	156.96	89.98	880.89	287.55	6,103.78	5,916.39	187.40	32.571		
12,000.00	7,806.94	7,825.94	7,825.94	98.05	156.96	89.98	880.89	287.55	6,203.70	6,016.26	187.44	33.097		
12,100.00	7,806.94	7,825.94	7,825.94	99.74	156.96	89.98	880.89	287.55	6,303.62	6,116.14	187.49	33.621		
12,200.00	7,806.94	7,825.94	7,825.94	101.44	156.96	89.98	880.89	287.55	6,403.55	6,216.01	187.54	34.146		
12,300.00	7,806.94	7,825.94	7,825.94	103.14	156.96	89.98	880.89	287.55	6,503.48	6,315.89	187.58	34.670		
12,400.00	7,806.94	7,825.94	7,825.94	104.84	156.96	89.98	880.89	287.55	6,603.41	6,415.77	187.63	35.193		
12,500.00	7,806.93	7,825.93	7,825.93	106.54	156.96	89.98	880.89	287.55	6,703.34	6,515.66	187.68	35.716		
12,600.00	7,806.93	7,825.93	7,825.93	108.25	156.96	89.98	880.89	287.55	6,803.27	6,615.54	187.73	36.239		
12,700.00	7,806.93	7,825.93	7,825.93	109.95	156.96	89.98	880.89	287.55	6,903.21	6,715.42	187.79	36.761		
12,800.00	7,806.93	7,825.93	7,825.93	111.66	156.96	89.97	880.89	287.55	7,003.15	6,815.31	187.84	37.283		
12,900.00	7,806.93	7,825.93	7,825.93	113.37	156.96	89.97	880.89	287.55	7,103.08	6,915.19	187.89	37.804		
13,000.00	7,806.93	7,825.93	7,825.93	115.09	156.96	89.97	880.89	287.55	7,203.03	7,015.08	187.94	38.325		
13,100.00	7,806.93	7,825.93	7,825.93	116.80	156.96	89.97	880.89	287.55	7,302.97	7,114.97	188.00	38.846		
13,200.00	7,806.92	7,825.92	7,825.92	118.52	156.96	89.97	880.89	287.55	7,402.91	7,214.86	188.06	39.366		
13,300.00	7,806.92	7,825.92	7,825.92	120.24	156.96	89.97	880.89	287.55	7,502.86	7,314.75	188.11	39.885		
13,400.00	7,806.92	7,825.92	7,825.92	121.96	156.96	89.97	880.89	287.55	7,602.80	7,414.64	188.17	40.404		
13,500.00	7,806.92	7,825.92	7,825.92	123.68	156.96	89.97	880.89	287.55	7,702.75	7,514.53	188.23	40.923		
13,600.00	7,806.92	7,825.92	7,825.92	125.40	156.96	89.97	880.89	287.55	7,802.70	7,614.42	188.29	41.441		
13,700.00	7,806.92	7,825.92	7,825.92	127.12	156.96	89.97	880.89	287.55	7,902.65	7,714.31	188.35	41.958		
13,800.00	7,806.91	7,825.91	7,825.91	128.85	156.96	89.97	880.89	287.55	8,002.61	7,814.20	188.41	42.475		
13,900.00	7,806.91	7,825.91	7,825.91	130.58	156.96	89.97	880.89	287.55	8,102.56	7,914.09	188.47	42.992		
14,000.00	7,806.91	7,825.91	7,825.91	132.30	156.96	89.97	880.89	287.55	8,202.51	8,013.98	188.53	43.508		
14,100.00	7,806.91	7,825.91	7,825.91	134.03	156.96	89.97	880.89	287.55	8,302.47	8,113.88	188.59	44.024		
14,200.00	7,806.91	7,825.91	7,825.91	135.76	156.96	89.97	880.89	287.55	8,402.43	8,213.77	188.65	44.539		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
14,300.00	7,806.91	7,825.91	7,825.91	137.50	156.96	89.97	880.89	287.55	8,502.38	8,313.66	188.72	45.053	
14,400.00	7,806.91	7,825.91	7,825.91	139.23	156.96	89.97	880.89	287.55	8,602.34	8,413.56	188.78	45.567	
14,500.00	7,806.90	7,825.90	7,825.90	140.96	156.96	89.97	880.89	287.55	8,702.30	8,513.45	188.85	46.081	
14,600.00	7,806.90	7,825.90	7,825.90	142.70	156.96	89.97	880.89	287.55	8,802.26	8,613.35	188.92	46.594	
14,700.00	7,806.90	7,825.90	7,825.90	144.43	156.96	89.97	880.89	287.55	8,902.22	8,713.24	188.98	47.106	
14,800.00	7,806.90	7,825.90	7,825.90	146.17	156.96	89.97	880.89	287.55	9,002.19	8,813.14	189.05	47.618	
14,900.00	7,806.90	7,825.90	7,825.90	147.91	156.96	89.97	880.89	287.55	9,102.15	8,913.03	189.12	48.129	
15,000.00	7,806.90	7,825.90	7,825.90	149.64	156.96	89.97	880.89	287.55	9,202.11	9,012.93	189.19	48.640	
15,100.00	7,806.89	7,825.89	7,825.89	151.38	156.96	89.97	880.89	287.55	9,302.08	9,112.82	189.26	49.150	
15,200.00	7,806.89	7,825.89	7,825.89	153.12	156.96	89.97	880.89	287.55	9,402.04	9,212.71	189.33	49.660	
15,300.00	7,806.89	7,825.89	7,825.89	154.86	156.96	89.97	880.89	287.55	9,502.01	9,312.61	189.40	50.169	
15,400.00	7,806.89	7,825.89	7,825.89	156.60	156.96	89.97	880.89	287.55	9,601.98	9,412.50	189.47	50.678	
15,500.00	7,806.89	7,825.89	7,825.89	158.35	156.96	89.97	880.89	287.55	9,701.94	9,512.40	189.54	51.186	
15,600.00	7,806.89	7,825.89	7,825.89	160.09	156.96	89.96	880.89	287.55	9,801.91	9,612.29	189.62	51.693	
15,700.00	7,806.89	7,825.89	7,825.89	161.83	156.96	89.96	880.89	287.55	9,901.88	9,712.19	189.69	52.200	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	8.00	-8.00	0.00	0.09	-70.53	903.97	-2,556.56	2,711.67					
100.00	100.00	108.00	92.00	0.13	1.34	-70.53	903.97	-2,556.56	2,711.67	2,710.19	1.48	1,836.436		
200.00	200.00	208.00	192.00	0.49	3.62	-70.53	903.97	-2,556.56	2,711.67	2,707.55	4.12	658.801		
300.00	300.00	308.00	292.00	0.85	5.70	-70.53	903.97	-2,556.56	2,711.67	2,705.12	6.55	413.956		
400.00	400.00	408.00	392.00	1.21	7.74	-70.53	903.97	-2,556.56	2,711.67	2,702.72	8.95	302.967		
500.00	500.00	508.00	492.00	1.57	9.77	-70.53	903.97	-2,556.56	2,711.67	2,700.33	11.34	239.178		
600.00	600.00	608.00	592.00	1.93	11.79	-70.53	903.97	-2,556.56	2,711.67	2,697.95	13.72	197.666		
700.00	700.00	708.00	692.00	2.29	13.81	-70.53	903.97	-2,556.56	2,711.67	2,695.57	16.10	168.468		
800.00	800.00	808.00	792.00	2.64	15.83	-70.53	903.97	-2,556.56	2,711.67	2,693.20	18.47	146.803		
900.00	900.00	908.00	892.00	3.00	17.84	-70.53	903.97	-2,556.56	2,711.67	2,690.83	20.85	130.083		
1,000.00	1,000.00	1,008.00	992.00	3.36	19.86	-70.53	903.97	-2,556.56	2,711.67	2,688.45	23.22	116.788		
1,100.00	1,100.00	1,108.00	1,092.00	3.72	21.87	-70.53	903.97	-2,556.56	2,711.67	2,686.08	25.59	105.961		
1,200.00	1,200.00	1,208.00	1,192.00	4.08	23.89	-70.53	903.97	-2,556.56	2,711.67	2,683.71	27.96	96.973		
1,300.00	1,300.00	1,308.00	1,292.00	4.44	25.90	-70.53	903.97	-2,556.56	2,711.67	2,681.34	30.33	89.391 CC		
1,400.00	1,399.98	1,408.02	1,391.98	4.78	27.91	138.18	903.97	-2,556.56	2,712.97	2,680.28	32.69	82.993 ES		
1,500.00	1,499.84	1,508.16	1,491.84	5.11	29.93	138.21	903.97	-2,556.56	2,716.88	2,681.84	35.03	77.552		
1,600.00	1,599.45	1,608.55	1,591.45	5.44	31.95	138.24	903.97	-2,556.56	2,723.39	2,686.00	37.39	72.845		
1,700.00	1,698.70	1,709.30	1,690.70	5.79	33.97	138.29	903.97	-2,556.56	2,732.51	2,692.76	39.75	68.737		
1,800.00	1,797.47	1,789.47	1,789.47	6.15	35.59	138.35	903.97	-2,556.56	2,744.26	2,702.54	41.71	65.789		
1,900.00	1,895.62	1,887.62	1,887.62	6.53	37.56	138.42	903.97	-2,556.56	2,758.64	2,714.59	44.04	62.634		
1,912.93	1,908.27	1,900.27	1,900.27	6.58	37.82	138.43	903.97	-2,556.56	2,760.69	2,716.34	44.35	62.252		
2,000.00	1,993.35	1,985.35	1,985.35	6.93	39.53	138.68	903.97	-2,556.56	2,774.69	2,728.31	46.38	59.831		
2,100.00	2,091.07	2,083.07	2,083.07	7.34	41.49	138.96	903.97	-2,556.56	2,790.83	2,742.11	48.71	57.291		
2,200.00	2,188.79	2,180.79	2,180.79	7.77	43.46	139.24	903.97	-2,556.56	2,807.03	2,755.97	51.06	54.977		
2,300.00	2,286.51	2,278.51	2,278.51	8.20	45.43	139.52	903.97	-2,556.56	2,823.31	2,769.90	53.41	52.862		
2,400.00	2,384.23	2,376.23	2,376.23	8.65	47.39	139.80	903.97	-2,556.56	2,839.64	2,783.88	55.76	50.923		
2,500.00	2,481.95	2,473.95	2,473.95	9.10	49.36	140.07	903.97	-2,556.56	2,856.05	2,797.92	58.12	49.138		
2,600.00	2,579.67	2,571.67	2,571.67	9.56	51.32	140.34	903.97	-2,556.56	2,872.51	2,812.03	60.49	47.491		
2,700.00	2,677.39	2,669.39	2,669.39	10.02	53.29	140.61	903.97	-2,556.56	2,889.04	2,826.19	62.85	45.967		
2,800.00	2,775.11	2,767.11	2,767.11	10.49	55.25	140.87	903.97	-2,556.56	2,905.63	2,840.41	65.22	44.553		
2,900.00	2,872.83	2,864.83	2,864.83	10.96	57.22	141.13	903.97	-2,556.56	2,922.28	2,854.70	67.59	43.237		
3,000.00	2,970.55	2,962.55	2,962.55	11.44	59.19	141.39	903.97	-2,556.56	2,938.99	2,869.03	69.96	42.011		
3,100.00	3,068.27	3,060.27	3,060.27	11.92	61.15	141.64	903.97	-2,556.56	2,955.76	2,883.43	72.33	40.865		
3,200.00	3,165.99	3,157.99	3,157.99	12.40	63.12	141.89	903.97	-2,556.56	2,972.58	2,897.88	74.70	39.792		
3,300.00	3,263.71	3,255.71	3,255.71	12.88	65.08	142.14	903.97	-2,556.56	2,989.46	2,912.39	77.08	38.785		
3,400.00	3,361.43	3,353.43	3,353.43	13.37	67.05	142.39	903.97	-2,556.56	3,006.40	2,926.95	79.45	37.839		
3,500.00	3,459.15	3,451.15	3,451.15	13.86	69.01	142.63	903.97	-2,556.56	3,023.39	2,941.56	81.83	36.949		
3,600.00	3,556.87	3,548.87	3,548.87	14.35	70.98	142.87	903.97	-2,556.56	3,040.43	2,956.23	84.20	36.109		
3,700.00	3,654.59	3,646.59	3,646.59	14.84	72.94	143.11	903.97	-2,556.56	3,057.53	2,970.95	86.58	35.315		
3,800.00	3,752.31	3,744.31	3,744.31	15.34	74.91	143.35	903.97	-2,556.56	3,074.67	2,985.72	88.95	34.565		
3,900.00	3,850.03	3,842.03	3,842.03	15.83	76.87	143.58	903.97	-2,556.56	3,091.87	3,000.54	91.33	33.854		
4,000.00	3,947.75	3,939.75	3,939.75	16.33	78.84	143.81	903.97	-2,556.56	3,109.12	3,015.41	93.71	33.180		
4,100.00	4,045.47	4,037.47	4,037.47	16.83	80.80	144.04	903.97	-2,556.56	3,126.42	3,030.33	96.08	32.539		
4,200.00	4,143.19	4,135.19	4,135.19	17.32	82.77	144.26	903.97	-2,556.56	3,143.76	3,045.30	98.46	31.930		
4,300.00	4,240.91	4,232.91	4,232.91	17.82	84.73	144.49	903.97	-2,556.56	3,161.15	3,060.32	100.83	31.350		
4,400.00	4,338.63	4,330.63	4,330.63	18.32	86.70	144.71	903.97	-2,556.56	3,178.59	3,075.38	103.21	30.798		
4,500.00	4,436.35	4,428.35	4,428.35	18.82	88.67	144.93	903.97	-2,556.56	3,196.08	3,090.49	105.58	30.271		
4,600.00	4,534.07	4,526.07	4,526.07	19.33	90.63	145.14	903.97	-2,556.56	3,213.61	3,105.65	107.96	29.767		
4,700.00	4,631.79	4,623.79	4,623.79	19.83	92.60	145.35	903.97	-2,556.56	3,231.18	3,120.85	110.33	29.286		
4,800.00	4,729.51	4,721.51	4,721.51	20.33	94.56	145.57	903.97	-2,556.56	3,248.80	3,136.09	112.71	28.825		
4,900.00	4,827.23	4,819.23	4,819.23	20.83	96.53	145.78	903.97	-2,556.56	3,266.46	3,151.38	115.08	28.384		
5,000.00	4,924.95	4,916.95	4,916.95	21.34	98.49	145.98	903.97	-2,556.56	3,284.16	3,166.71	117.46	27.961		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,014.67	5,014.67	21.84	100.46	146.19	903.97	-2,556.56	3,301.91	3,182.08	119.83	27.555		
5,200.00	5,120.39	5,112.39	5,112.39	22.35	102.42	146.39	903.97	-2,556.56	3,319.70	3,197.49	122.20	27.166		
5,300.00	5,218.11	5,210.11	5,210.11	22.85	104.39	146.59	903.97	-2,556.56	3,337.52	3,212.95	124.58	26.791		
5,400.00	5,315.83	5,307.83	5,307.83	23.36	106.35	146.79	903.97	-2,556.56	3,355.39	3,228.44	126.95	26.431		
5,500.00	5,413.55	5,405.55	5,405.55	23.86	108.32	146.98	903.97	-2,556.56	3,373.29	3,243.97	129.32	26.085		
5,600.00	5,511.27	5,503.27	5,503.27	24.37	110.28	147.18	903.97	-2,556.56	3,391.24	3,259.54	131.69	25.751		
5,700.00	5,608.99	5,600.99	5,600.99	24.88	112.25	147.37	903.97	-2,556.56	3,409.22	3,275.15	134.06	25.430		
5,800.00	5,706.71	5,701.29	5,698.71	25.38	114.26	147.56	903.97	-2,556.56	3,427.24	3,290.75	136.49	25.111		
5,900.00	5,804.43	5,803.57	5,796.43	25.89	116.32	147.75	903.97	-2,556.56	3,445.29	3,306.34	138.95	24.796		
6,000.00	5,902.15	5,905.85	5,894.15	26.40	118.38	147.94	903.97	-2,556.56	3,463.38	3,321.97	141.41	24.492		
6,100.00	5,999.87	6,008.14	5,991.87	26.91	120.44	148.12	903.97	-2,556.56	3,481.51	3,337.64	143.87	24.199		
6,200.00	6,097.59	6,089.59	6,089.59	27.42	122.07	148.30	903.97	-2,556.56	3,499.67	3,353.76	145.91	23.985		
6,300.00	6,195.30	6,187.30	6,187.30	27.92	124.04	148.48	903.97	-2,556.56	3,517.87	3,369.58	148.28	23.724		
6,400.00	6,293.02	6,285.02	6,285.02	28.43	126.00	148.66	903.97	-2,556.56	3,536.09	3,385.44	150.65	23.472		
6,500.00	6,390.74	6,382.74	6,382.74	28.94	127.97	148.84	903.97	-2,556.56	3,554.36	3,401.34	153.02	23.228		
6,600.00	6,488.46	6,480.46	6,480.46	29.45	129.93	149.01	903.97	-2,556.56	3,572.65	3,417.27	155.39	22.992		
6,638.14	6,525.73	6,517.73	6,517.73	29.64	130.68	149.08	903.97	-2,556.56	3,579.64	3,423.35	156.29	22.904		
6,700.00	6,586.32	6,578.32	6,578.32	29.95	131.90	149.29	903.97	-2,556.56	3,590.42	3,432.66	157.75	22.760		
6,800.00	6,684.79	6,676.79	6,676.79	30.42	133.88	149.59	903.97	-2,556.56	3,605.46	3,445.34	160.12	22.517		
6,900.00	6,783.81	6,775.81	6,775.81	30.85	135.87	149.82	903.97	-2,556.56	3,617.54	3,455.05	162.49	22.263		
7,000.00	6,883.25	6,875.25	6,875.25	31.24	137.87	150.00	903.97	-2,556.56	3,626.63	3,461.78	164.85	22.000		
7,100.00	6,983.00	6,975.00	6,975.00	31.60	139.88	150.11	903.97	-2,556.56	3,632.71	3,465.51	167.20	21.726		
7,200.00	7,082.93	7,074.93	7,074.93	31.92	141.89	150.17	903.97	-2,556.56	3,635.77	3,466.22	169.55	21.444		
7,251.07	7,134.00	7,126.00	7,126.00	32.06	142.92	-58.52	903.97	-2,556.56	3,636.16	3,465.43	170.73	21.298		
7,300.00	7,182.93	7,174.93	7,174.93	32.19	143.90	-58.52	903.97	-2,556.56	3,636.16	3,464.30	171.86	21.158		
7,351.07	7,234.00	7,226.00	7,226.00	32.32	144.93	-58.52	903.97	-2,556.56	3,636.16	3,463.13	173.04	21.014		
7,400.00	7,282.87	7,274.87	7,274.87	32.47	145.91	121.75	903.97	-2,556.56	3,637.26	3,463.08	174.18	20.882		
7,450.00	7,332.44	7,324.44	7,324.44	32.67	146.91	121.55	903.97	-2,556.56	3,640.66	3,465.29	175.37	20.760		
7,500.00	7,381.26	7,373.26	7,373.26	32.90	147.89	121.20	903.97	-2,556.56	3,646.35	3,469.79	176.56	20.652		
7,550.00	7,428.96	7,420.96	7,420.96	33.18	148.85	120.70	903.97	-2,556.56	3,654.30	3,476.56	177.74	20.559		
7,600.00	7,475.17	7,467.17	7,467.17	33.48	149.78	120.05	903.97	-2,556.56	3,664.50	3,485.59	178.91	20.482		
7,650.00	7,519.55	7,511.55	7,511.55	33.82	150.67	119.22	903.97	-2,556.56	3,676.92	3,496.86	180.06	20.421		
7,700.00	7,561.76	7,553.76	7,553.76	34.20	151.52	118.20	903.97	-2,556.56	3,691.50	3,510.33	181.17	20.376		
7,750.00	7,601.47	7,606.53	7,593.47	34.60	152.58	116.98	903.97	-2,556.56	3,708.20	3,525.69	182.51	20.318 SF		
7,800.00	7,638.39	7,630.39	7,630.39	35.04	153.06	115.54	903.97	-2,556.56	3,726.94	3,543.67	183.27	20.336		
7,850.00	7,672.23	7,664.23	7,664.23	35.50	153.74	113.86	903.97	-2,556.56	3,747.63	3,563.40	184.23	20.342		
7,900.00	7,702.74	7,705.26	7,694.74	35.99	154.56	111.91	903.97	-2,556.56	3,770.18	3,584.84	185.34	20.342		
7,950.00	7,729.67	7,721.67	7,721.67	36.50	154.89	109.68	903.97	-2,556.56	3,794.46	3,608.51	185.95	20.405		
8,000.00	7,752.84	7,744.84	7,744.84	37.04	155.36	107.15	903.97	-2,556.56	3,820.34	3,633.64	186.70	20.463		
8,050.00	7,772.06	7,764.06	7,764.06	37.60	155.75	104.32	903.97	-2,556.56	3,847.66	3,660.30	187.36	20.536		
8,100.00	7,787.18	7,779.18	7,779.18	38.17	156.05	101.17	903.97	-2,556.56	3,876.24	3,688.31	187.93	20.626		
8,150.00	7,798.10	7,809.90	7,790.10	38.76	156.67	97.73	903.97	-2,556.56	3,905.89	3,717.08	188.80	20.688		
8,200.00	7,804.72	7,803.28	7,796.72	39.36	156.54	94.02	903.97	-2,556.56	3,936.39	3,747.48	188.91	20.837		
8,251.15	7,807.00	7,801.00	7,799.00	39.97	156.49	90.00	903.97	-2,556.56	3,968.24	3,779.14	189.10	20.985		
8,300.00	7,807.00	7,801.00	7,799.00	40.56	156.49	90.00	903.97	-2,556.56	3,999.08	3,809.76	189.32	21.123		
8,400.00	7,807.00	7,801.00	7,799.00	41.80	156.49	90.00	903.97	-2,556.56	4,063.30	3,873.53	189.77	21.412		
8,500.00	7,807.00	7,801.00	7,799.00	43.08	156.49	90.00	903.97	-2,556.56	4,128.94	3,938.72	190.22	21.707		
8,600.00	7,806.99	7,801.01	7,798.99	44.40	156.49	90.00	903.97	-2,556.56	4,195.94	4,005.28	190.66	22.007		
8,700.00	7,806.99	7,801.01	7,798.99	45.74	156.49	90.00	903.97	-2,556.56	4,264.23	4,073.13	191.10	22.314		
8,800.00	7,806.99	7,801.01	7,798.99	47.11	156.49	90.00	903.97	-2,556.56	4,333.76	4,142.22	191.54	22.626		
8,900.00	7,806.99	7,801.01	7,798.99	48.51	156.49	90.00	903.97	-2,556.56	4,404.46	4,212.49	191.97	22.943		
9,000.00	7,806.99	7,801.01	7,798.99	49.93	156.49	90.00	903.97	-2,556.56	4,476.27	4,283.88	192.40	23.266		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-12 - Wellbore #1 - Design #1		Offset Site Error:		0.00 usft
Survey Program:		0-INC											Offset Well Error:		0.00 usft		
Reference		Offset		Semi Major Axis		Distance								Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor					
9,100.00	7,806.99	7,801.01	7,798.99	51.38	156.49	90.00	903.97	-2,556.56	4,549.15	4,356.34	192.81	23.594					
9,200.00	7,806.99	7,801.01	7,798.99	52.84	156.49	90.00	903.97	-2,556.56	4,623.05	4,429.83	193.22	23.926					
9,300.00	7,806.98	7,801.02	7,798.98	54.32	156.49	90.00	903.97	-2,556.56	4,697.91	4,504.29	193.62	24.264					
9,400.00	7,806.98	7,801.02	7,798.98	55.82	156.49	90.00	903.97	-2,556.56	4,773.69	4,579.68	194.01	24.606					
9,500.00	7,806.98	7,801.02	7,798.98	57.34	156.49	90.00	903.97	-2,556.56	4,850.35	4,655.96	194.39	24.952					
9,600.00	7,806.98	7,801.02	7,798.98	58.87	156.49	90.00	903.97	-2,556.56	4,927.84	4,733.08	194.76	25.302					
9,700.00	7,806.98	7,801.02	7,798.98	60.41	156.49	90.00	903.97	-2,556.56	5,006.14	4,811.01	195.13	25.656					
9,800.00	7,806.98	7,801.02	7,798.98	61.96	156.49	90.00	903.97	-2,556.56	5,085.19	4,889.71	195.48	26.014					
9,900.00	7,806.97	7,801.03	7,798.97	63.53	156.49	90.00	903.97	-2,556.56	5,164.97	4,969.15	195.83	26.375					
10,000.00	7,806.97	7,801.03	7,798.97	65.10	156.49	90.00	903.97	-2,556.56	5,245.45	5,049.29	196.16	26.740					
10,100.00	7,806.97	7,801.03	7,798.97	66.69	156.49	90.00	903.97	-2,556.56	5,326.58	5,130.09	196.49	27.109					
10,200.00	7,806.97	7,801.03	7,798.97	68.29	156.49	90.00	903.97	-2,556.56	5,408.35	5,211.54	196.81	27.480					
10,300.00	7,806.97	7,801.03	7,798.97	69.89	156.49	90.00	903.97	-2,556.56	5,490.72	5,293.60	197.12	27.855					
10,400.00	7,806.97	7,801.03	7,798.97	71.50	156.49	90.00	903.97	-2,556.56	5,573.67	5,376.25	197.42	28.232					
10,500.00	7,806.97	7,801.03	7,798.97	73.12	156.49	90.00	903.97	-2,556.56	5,657.17	5,459.46	197.72	28.613					
10,600.00	7,806.96	7,801.04	7,798.96	74.75	156.49	90.00	903.97	-2,556.56	5,741.20	5,543.20	198.00	28.996					
10,700.00	7,806.96	7,801.04	7,798.96	76.38	156.49	90.00	903.97	-2,556.56	5,825.73	5,627.45	198.28	29.381					
10,800.00	7,806.96	7,801.04	7,798.96	78.02	156.49	90.00	903.97	-2,556.56	5,910.74	5,712.19	198.55	29.769					
10,900.00	7,806.96	7,801.04	7,798.96	79.66	156.49	90.00	903.97	-2,556.56	5,996.22	5,797.40	198.82	30.159					
11,000.00	7,806.96	7,801.04	7,798.96	81.31	156.49	90.00	903.97	-2,556.56	6,082.14	5,883.07	199.08	30.552					
11,100.00	7,806.96	7,801.04	7,798.96	82.97	156.49	90.00	903.97	-2,556.56	6,168.49	5,969.16	199.33	30.947					
11,200.00	7,806.95	7,801.05	7,798.95	84.63	156.49	90.00	903.97	-2,556.56	6,255.24	6,055.66	199.57	31.343					
11,300.00	7,806.95	7,801.05	7,798.95	86.29	156.49	90.00	903.97	-2,556.56	6,342.38	6,142.57	199.81	31.742					
11,400.00	7,806.95	7,801.05	7,798.95	87.96	156.49	90.00	903.97	-2,556.56	6,429.89	6,229.85	200.04	32.142					
11,500.00	7,806.95	7,801.05	7,798.95	89.64	156.49	90.00	903.97	-2,556.56	6,517.77	6,317.50	200.27	32.545					
11,600.00	7,806.95	7,801.05	7,798.95	91.31	156.49	90.00	903.97	-2,556.56	6,605.99	6,405.49	200.49	32.949					
11,700.00	7,806.95	7,801.05	7,798.95	92.99	156.49	90.00	903.97	-2,556.56	6,694.54	6,493.83	200.71	33.354					
11,800.00	7,806.95	7,801.05	7,798.95	94.68	156.49	90.00	903.97	-2,556.56	6,783.41	6,582.48	200.92	33.761					
11,900.00	7,806.94	7,801.06	7,798.94	96.36	156.49	90.00	903.97	-2,556.56	6,872.58	6,671.45	201.13	34.170					
12,000.00	7,806.94	7,801.06	7,798.94	98.05	156.49	90.00	903.97	-2,556.56	6,962.05	6,760.72	201.33	34.580					
12,100.00	7,806.94	7,801.06	7,798.94	99.74	156.49	90.00	903.97	-2,556.56	7,051.80	6,850.27	201.53	34.991					
12,200.00	7,806.94	7,801.06	7,798.94	101.44	156.49	90.00	903.97	-2,556.56	7,141.83	6,940.10	201.72	35.404					
12,300.00	7,806.94	7,801.06	7,798.94	103.14	156.49	90.00	903.97	-2,556.56	7,232.11	7,030.20	201.91	35.818					
12,400.00	7,806.94	7,801.06	7,798.94	104.84	156.49	90.00	903.97	-2,556.56	7,322.65	7,120.56	202.10	36.233					
12,500.00	7,806.93	7,801.07	7,798.93	106.54	156.49	90.00	903.97	-2,556.56	7,413.43	7,211.16	202.28	36.650					
12,600.00	7,806.93	7,801.07	7,798.93	108.25	156.49	90.00	903.97	-2,556.56	7,504.45	7,301.99	202.46	37.067					
12,700.00	7,806.93	7,801.07	7,798.93	109.95	156.49	90.00	903.97	-2,556.56	7,595.69	7,393.06	202.63	37.485					
12,800.00	7,806.93	7,801.07	7,798.93	111.66	156.49	90.00	903.97	-2,556.56	7,687.15	7,484.35	202.80	37.905					
12,900.00	7,806.93	7,801.07	7,798.93	113.37	156.49	90.00	903.97	-2,556.56	7,778.82	7,575.85	202.97	38.325					
13,000.00	7,806.93	7,801.07	7,798.93	115.09	156.49	90.00	903.97	-2,556.56	7,870.70	7,667.56	203.13	38.746					
13,100.00	7,806.93	7,801.07	7,798.93	116.80	156.49	90.00	903.97	-2,556.56	7,962.77	7,759.47	203.29	39.169					
13,200.00	7,806.92	7,801.08	7,798.92	118.52	156.49	90.00	903.97	-2,556.56	8,055.02	7,851.57	203.45	39.591					
13,300.00	7,806.92	7,801.08	7,798.92	120.24	156.49	90.00	903.97	-2,556.56	8,147.46	7,943.86	203.61	40.015					
13,400.00	7,806.92	7,801.08	7,798.92	121.96	156.49	90.00	903.97	-2,556.56	8,240.08	8,036.32	203.76	40.440					
13,500.00	7,806.92	7,801.08	7,798.92	123.68	156.49	90.00	903.97	-2,556.56	8,332.87	8,128.96	203.91	40.865					
13,600.00	7,806.92	7,801.08	7,798.92	125.40	156.49	90.00	903.97	-2,556.56	8,425.82	8,221.76	204.06	41.291					
13,700.00	7,806.92	7,801.08	7,798.92	127.12	156.49	90.00	903.97	-2,556.56	8,518.94	8,314.73	204.21	41.717					
13,800.00	7,806.91	7,801.09	7,798.91	128.85	156.49	90.00	903.97	-2,556.56	8,612.20	8,407.85	204.35	42.144					
13,900.00	7,806.91	7,801.09	7,798.91	130.58	156.49	90.00	903.97	-2,556.56	8,705.62	8,501.13	204.49	42.572					
14,000.00	7,806.91	7,801.09	7,798.91	132.30	156.49	90.00	903.97	-2,556.56	8,799.18	8,594.55	204.63	43.000					
14,100.00	7,806.91	7,801.09	7,798.91	134.03	156.49	90.00	903.97	-2,556.56	8,892.88	8,688.11	204.77	43.429					
14,200.00	7,806.91	7,801.09	7,798.91	135.76	156.49	90.00	903.97	-2,556.56	8,986.72	8,781.82	204.90	43.859					

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
14,300.00	7,806.91	7,801.09	7,798.91	137.50	156.49	90.00	903.97	-2,556.56	9,080.69	8,875.65	205.04	44.288	
14,400.00	7,806.91	7,801.09	7,798.91	139.23	156.49	90.00	903.97	-2,556.56	9,174.78	8,969.62	205.17	44.719	
14,500.00	7,806.90	7,801.10	7,798.90	140.96	156.49	90.00	903.97	-2,556.56	9,269.00	9,063.71	205.30	45.149	
14,600.00	7,806.90	7,801.10	7,798.90	142.70	156.49	90.00	903.97	-2,556.56	9,363.34	9,157.92	205.43	45.580	
14,700.00	7,806.90	7,801.10	7,798.90	144.43	156.49	90.00	903.97	-2,556.56	9,457.80	9,252.25	205.55	46.012	
14,800.00	7,806.90	7,801.10	7,798.90	146.17	156.49	90.00	903.97	-2,556.56	9,552.37	9,346.69	205.68	46.444	
14,900.00	7,806.90	7,801.10	7,798.90	147.91	156.49	90.00	903.97	-2,556.56	9,647.05	9,441.25	205.80	46.876	
15,000.00	7,806.90	7,801.10	7,798.90	149.64	156.49	90.00	903.97	-2,556.56	9,741.83	9,535.91	205.92	47.308	
15,100.00	7,806.89	7,801.11	7,798.89	151.38	156.49	90.00	903.97	-2,556.56	9,836.72	9,630.68	206.04	47.741	
15,200.00	7,806.89	7,801.11	7,798.89	153.12	156.49	90.00	903.97	-2,556.56	9,931.71	9,725.55	206.16	48.174	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	107.15	-493.84	1,600.33	1,674.79					
100.00	100.00	116.00	116.00	0.13	1.53	107.15	-493.84	1,600.33	1,674.79	1,673.13	1.66	1,008.619		
200.00	200.00	216.00	216.00	0.49	3.79	107.15	-493.84	1,600.33	1,674.79	1,670.51	4.28	391.088		
300.00	300.00	316.00	316.00	0.85	5.86	107.15	-493.84	1,600.33	1,674.79	1,668.08	6.71	249.447		
400.00	400.00	416.00	416.00	1.21	7.90	107.15	-493.84	1,600.33	1,674.79	1,665.68	9.11	183.786		
500.00	500.00	516.00	516.00	1.57	9.93	107.15	-493.84	1,600.33	1,674.79	1,663.29	11.50	145.643		
600.00	600.00	616.00	616.00	1.93	11.95	107.15	-493.84	1,600.33	1,674.79	1,660.91	13.88	120.662		
700.00	700.00	716.00	716.00	2.29	13.97	107.15	-493.84	1,600.33	1,674.79	1,658.53	16.26	103.017		
800.00	800.00	816.00	816.00	2.64	15.99	107.15	-493.84	1,600.33	1,674.79	1,656.16	18.63	89.884		
900.00	900.00	916.00	916.00	3.00	18.00	107.15	-493.84	1,600.33	1,674.79	1,653.78	21.01	79.726		
1,000.00	1,000.00	1,016.00	1,016.00	3.36	20.02	107.15	-493.84	1,600.33	1,674.79	1,651.41	23.38	71.634		
1,100.00	1,100.00	1,116.00	1,116.00	3.72	22.03	107.15	-493.84	1,600.33	1,674.79	1,649.04	25.75	65.034		
1,200.00	1,200.00	1,216.00	1,216.00	4.08	24.05	107.15	-493.84	1,600.33	1,674.79	1,646.67	28.12	59.550		
1,300.00	1,300.00	1,316.00	1,316.00	4.44	26.06	107.15	-493.84	1,600.33	1,674.79	1,644.30	30.50	54.919		
1,400.00	1,399.98	1,415.98	1,415.98	4.78	28.07	-44.21	-493.84	1,600.33	1,673.54	1,640.69	32.85	50.946		
1,500.00	1,499.84	1,515.84	1,515.84	5.11	30.08	-44.38	-493.84	1,600.33	1,669.79	1,634.60	35.19	47.454		
1,600.00	1,599.45	1,615.45	1,615.45	5.44	32.09	-44.68	-493.84	1,600.33	1,663.57	1,626.04	37.53	44.332		
1,700.00	1,698.70	1,714.70	1,714.70	5.79	34.08	-45.10	-493.84	1,600.33	1,654.90	1,615.04	39.86	41.516		
1,800.00	1,797.47	1,813.47	1,813.47	6.15	36.07	-45.64	-493.84	1,600.33	1,643.84	1,601.64	42.20	38.956		
1,900.00	1,895.62	1,911.62	1,911.62	6.53	38.05	-46.31	-493.84	1,600.33	1,630.45	1,585.92	44.53	36.613		
1,912.93	1,908.27	1,924.27	1,924.27	6.58	38.30	-46.41	-493.84	1,600.33	1,628.56	1,583.72	44.84	36.323		
2,000.00	1,993.35	2,009.35	2,009.35	6.93	40.01	-46.88	-493.84	1,600.33	1,615.71	1,568.84	46.87	34.472		
2,100.00	2,091.07	2,107.07	2,107.07	7.34	41.98	-47.42	-493.84	1,600.33	1,601.09	1,551.87	49.22	32.531		
2,200.00	2,188.79	2,204.79	2,204.79	7.77	43.94	-47.98	-493.84	1,600.33	1,586.62	1,535.05	51.58	30.763		
2,300.00	2,286.51	2,302.51	2,302.51	8.20	45.91	-48.55	-493.84	1,600.33	1,572.31	1,518.37	53.94	29.148		
2,400.00	2,384.23	2,400.23	2,400.23	8.65	47.87	-49.13	-493.84	1,600.33	1,558.15	1,501.83	56.32	27.668		
2,500.00	2,481.95	2,502.05	2,497.95	9.10	49.92	-49.72	-493.84	1,600.33	1,544.16	1,485.37	58.78	26.269		
2,600.00	2,579.67	2,604.33	2,595.67	9.56	51.98	-50.31	-493.84	1,600.33	1,530.33	1,469.07	61.26	24.980		
2,700.00	2,677.39	2,706.61	2,693.39	10.02	54.04	-50.92	-493.84	1,600.33	1,516.67	1,452.92	63.75	23.791		
2,800.00	2,775.11	2,808.89	2,791.11	10.49	56.09	-51.54	-493.84	1,600.33	1,503.19	1,436.95	66.24	22.692		
2,900.00	2,872.83	2,888.83	2,888.83	10.96	57.70	-52.17	-493.84	1,600.33	1,489.89	1,421.60	68.29	21.816		
3,000.00	2,970.55	2,986.55	2,986.55	11.44	59.67	-52.81	-493.84	1,600.33	1,476.77	1,406.07	70.71	20.886		
3,100.00	3,068.27	3,084.27	3,084.27	11.92	61.63	-53.47	-493.84	1,600.33	1,463.85	1,390.72	73.13	20.018		
3,200.00	3,165.99	3,181.99	3,181.99	12.40	63.60	-54.13	-493.84	1,600.33	1,451.12	1,375.57	75.55	19.208		
3,300.00	3,263.71	3,279.71	3,279.71	12.88	65.56	-54.80	-493.84	1,600.33	1,438.59	1,360.61	77.98	18.449		
3,400.00	3,361.43	3,377.43	3,377.43	13.37	67.53	-55.49	-493.84	1,600.33	1,426.27	1,345.86	80.41	17.737		
3,500.00	3,459.15	3,475.15	3,475.15	13.86	69.49	-56.19	-493.84	1,600.33	1,414.16	1,331.31	82.85	17.069		
3,600.00	3,556.87	3,572.87	3,572.87	14.35	71.46	-56.90	-493.84	1,600.33	1,402.26	1,316.98	85.29	16.441		
3,700.00	3,654.59	3,670.59	3,670.59	14.84	73.43	-57.62	-493.84	1,600.33	1,390.59	1,302.86	87.73	15.850		
3,800.00	3,752.31	3,768.31	3,768.31	15.34	75.39	-58.35	-493.84	1,600.33	1,379.15	1,288.97	90.18	15.293		
3,900.00	3,850.03	3,866.03	3,866.03	15.83	77.36	-59.10	-493.84	1,600.33	1,367.94	1,275.30	92.64	14.766		
4,000.00	3,947.75	3,963.75	3,963.75	16.33	79.32	-59.85	-493.84	1,600.33	1,356.97	1,261.87	95.10	14.269		
4,100.00	4,045.47	4,061.47	4,061.47	16.83	81.29	-60.62	-493.84	1,600.33	1,346.25	1,248.69	97.56	13.800		
4,200.00	4,143.19	4,159.19	4,159.19	17.32	83.25	-61.40	-493.84	1,600.33	1,335.77	1,235.75	100.02	13.355		
4,300.00	4,240.91	4,256.91	4,256.91	17.82	85.22	-62.19	-493.84	1,600.33	1,325.56	1,223.07	102.49	12.933		
4,400.00	4,338.63	4,354.63	4,354.63	18.32	87.18	-62.99	-493.84	1,600.33	1,315.61	1,210.64	104.96	12.534		
4,500.00	4,436.35	4,452.35	4,452.35	18.82	89.15	-63.81	-493.84	1,600.33	1,305.92	1,198.49	107.44	12.155		
4,600.00	4,534.07	4,550.07	4,550.07	19.33	91.11	-64.64	-493.84	1,600.33	1,296.52	1,186.60	109.92	11.796		
4,700.00	4,631.79	4,647.79	4,647.79	19.83	93.08	-65.47	-493.84	1,600.33	1,287.39	1,174.99	112.40	11.454		
4,800.00	4,729.51	4,745.51	4,745.51	20.33	95.04	-66.32	-493.84	1,600.33	1,278.55	1,163.67	114.88	11.129		
4,900.00	4,827.23	4,843.23	4,843.23	20.83	97.01	-67.18	-493.84	1,600.33	1,270.01	1,152.64	117.37	10.821		
5,000.00	4,924.95	4,940.95	4,940.95	21.34	98.97	-68.05	-493.84	1,600.33	1,261.76	1,141.91	119.86	10.527		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,038.67	5,038.67	21.84	100.94	-68.94	-493.84	1,600.33	1,253.82	1,131.48	122.35	10.248		
5,200.00	5,120.39	5,136.39	5,136.39	22.35	102.90	-69.83	-493.84	1,600.33	1,246.19	1,121.35	124.84	9.982		
5,300.00	5,218.11	5,234.11	5,234.11	22.85	104.87	-70.73	-493.84	1,600.33	1,238.88	1,111.55	127.33	9.729		
5,400.00	5,315.83	5,331.83	5,331.83	23.36	106.83	-71.65	-493.84	1,600.33	1,231.89	1,102.06	129.83	9.489		
5,500.00	5,413.55	5,429.55	5,429.55	23.86	108.80	-72.57	-493.84	1,600.33	1,225.23	1,092.90	132.33	9.259		
5,600.00	5,511.27	5,527.27	5,527.27	24.37	110.77	-73.50	-493.84	1,600.33	1,218.90	1,084.08	134.83	9.041		
5,700.00	5,608.99	5,624.99	5,624.99	24.88	112.73	-74.44	-493.84	1,600.33	1,212.91	1,075.59	137.32	8.832		
5,800.00	5,706.71	5,722.71	5,722.71	25.38	114.70	-75.39	-493.84	1,600.33	1,207.27	1,067.44	139.82	8.634		
5,900.00	5,804.43	5,820.43	5,820.43	25.89	116.66	-76.35	-493.84	1,600.33	1,201.97	1,059.65	142.32	8.445		
6,000.00	5,902.15	5,918.15	5,918.15	26.40	118.63	-77.32	-493.84	1,600.33	1,197.03	1,052.20	144.82	8.265		
6,100.00	5,999.87	6,015.87	6,015.87	26.91	120.59	-78.29	-493.84	1,600.33	1,192.44	1,045.12	147.32	8.094		
6,200.00	6,097.59	6,113.59	6,113.59	27.42	122.56	-79.27	-493.84	1,600.33	1,188.22	1,038.40	149.82	7.931		
6,300.00	6,195.30	6,211.30	6,211.30	27.92	124.52	-80.26	-493.84	1,600.33	1,184.36	1,032.04	152.32	7.775		
6,400.00	6,293.02	6,309.02	6,309.02	28.43	126.49	-81.25	-493.84	1,600.33	1,180.87	1,026.05	154.82	7.627		
6,500.00	6,390.74	6,406.74	6,406.74	28.94	128.45	-82.25	-493.84	1,600.33	1,177.76	1,020.44	157.31	7.487		
6,600.00	6,488.46	6,504.46	6,504.46	29.45	130.42	-83.25	-493.84	1,600.33	1,175.01	1,015.21	159.81	7.353		
6,638.14	6,525.73	6,541.73	6,541.73	29.64	131.17	-83.64	-493.84	1,600.33	1,174.07	1,013.31	160.76	7.303		
6,700.00	6,586.32	6,602.32	6,602.32	29.95	132.38	-84.20	-493.84	1,600.33	1,172.72	1,010.42	162.29	7.226		
6,800.00	6,684.79	6,700.79	6,700.79	30.42	134.36	-85.00	-493.84	1,600.33	1,171.06	1,006.30	164.75	7.108		
6,900.00	6,783.81	6,800.19	6,799.81	30.85	136.36	-85.65	-493.84	1,600.33	1,169.91	1,002.72	167.19	6.997		
7,000.00	6,883.25	6,900.75	6,899.25	31.24	138.39	-86.15	-493.84	1,600.33	1,169.15	999.54	169.61	6.893		
7,100.00	6,983.00	7,001.00	6,999.00	31.60	140.40	-86.48	-493.84	1,600.33	1,168.70	996.71	171.99	6.795		
7,200.00	7,082.93	7,101.07	7,098.93	31.92	142.41	-86.65	-493.84	1,600.33	1,168.49	994.17	174.32	6.703		
7,251.07	7,134.00	7,150.00	7,150.00	32.06	143.40	64.62	-493.84	1,600.33	1,168.46	993.02	175.45	6.660		
7,300.00	7,182.93	7,201.07	7,198.93	32.19	144.43	64.62	-493.84	1,600.33	1,168.46	991.86	176.60	6.616		
7,351.07	7,234.00	7,250.00	7,250.00	32.32	145.41	64.62	-493.84	1,600.33	1,168.46	990.75	177.72	6.575 CC		
7,400.00	7,282.87	7,301.13	7,298.87	32.47	146.44	-115.05	-493.84	1,600.33	1,169.35	990.45	178.90	6.536 ES		
7,450.00	7,332.44	7,348.44	7,348.44	32.67	147.39	-115.08	-493.84	1,600.33	1,172.09	992.04	180.05	6.510		
7,500.00	7,381.26	7,402.74	7,397.26	32.90	148.48	-115.12	-493.84	1,600.33	1,176.74	995.35	181.38	6.488		
7,550.00	7,428.96	7,444.96	7,444.96	33.18	149.33	-115.15	-493.84	1,600.33	1,183.34	1,000.83	182.51	6.484		
7,600.00	7,475.17	7,508.83	7,491.17	33.48	150.61	-115.14	-493.84	1,600.33	1,191.96	1,007.87	184.10	6.475 SF		
7,650.00	7,519.55	7,535.55	7,535.55	33.82	151.15	-115.05	-493.84	1,600.33	1,202.70	1,017.74	184.97	6.502		
7,700.00	7,561.76	7,577.76	7,577.76	34.20	152.00	-114.84	-493.84	1,600.33	1,215.64	1,029.47	186.17	6.530		
7,750.00	7,601.47	7,617.47	7,617.47	34.60	152.80	-114.46	-493.84	1,600.33	1,230.84	1,043.50	187.34	6.570		
7,800.00	7,638.39	7,654.39	7,654.39	35.04	153.54	-113.88	-493.84	1,600.33	1,248.36	1,059.90	188.46	6.624		
7,850.00	7,672.23	7,688.23	7,688.23	35.50	154.22	-113.02	-493.84	1,600.33	1,268.24	1,078.71	189.53	6.692		
7,900.00	7,702.74	7,718.74	7,718.74	35.99	154.84	-111.84	-493.84	1,600.33	1,290.46	1,099.94	190.53	6.773		
7,950.00	7,729.67	7,745.67	7,745.67	36.50	155.38	-110.28	-493.84	1,600.33	1,314.99	1,123.55	191.44	6.869		
8,000.00	7,752.84	7,768.84	7,768.84	37.04	155.84	-108.28	-493.84	1,600.33	1,341.74	1,149.46	192.27	6.978		
8,050.00	7,772.06	7,788.06	7,788.06	37.60	156.23	-105.79	-493.84	1,600.33	1,370.57	1,177.56	193.00	7.101		
8,100.00	7,787.18	7,803.18	7,803.18	38.17	156.53	-102.74	-493.84	1,600.33	1,401.30	1,207.67	193.63	7.237		
8,150.00	7,798.10	7,814.10	7,814.10	38.76	156.75	-99.11	-493.84	1,600.33	1,433.73	1,239.59	194.15	7.385		
8,200.00	7,804.72	7,820.72	7,820.72	39.36	156.89	-94.89	-493.84	1,600.33	1,467.60	1,273.05	194.55	7.543		
8,251.15	7,807.00	7,823.00	7,823.00	39.97	156.93	-90.00	-493.84	1,600.33	1,503.43	1,308.58	194.85	7.716		
8,300.00	7,807.00	7,823.00	7,823.00	40.56	156.93	-90.00	-493.84	1,600.33	1,538.50	1,343.43	195.07	7.887		
8,400.00	7,807.00	7,823.00	7,823.00	41.80	156.93	-90.00	-493.84	1,600.33	1,612.52	1,417.06	195.46	8.250		
8,500.00	7,807.00	7,823.00	7,823.00	43.08	156.93	-90.00	-493.84	1,600.33	1,689.23	1,493.43	195.80	8.627		
8,600.00	7,806.99	7,822.99	7,822.99	44.40	156.93	-90.00	-493.84	1,600.33	1,768.26	1,572.18	196.09	9.018		
8,700.00	7,806.99	7,822.99	7,822.99	45.74	156.93	-90.00	-493.84	1,600.33	1,849.33	1,653.00	196.33	9.419		
8,800.00	7,806.99	7,822.99	7,822.99	47.11	156.93	-90.00	-493.84	1,600.33	1,932.17	1,735.62	196.55	9.831		
8,900.00	7,806.99	7,822.99	7,822.99	48.51	156.93	-90.00	-493.84	1,600.33	2,016.57	1,819.84	196.73	10.250		
9,000.00	7,806.99	7,822.99	7,822.99	49.93	156.93	-90.00	-493.84	1,600.33	2,102.33	1,905.45	196.89	10.678		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,822.99	7,822.99	51.38	156.93	-90.00	-493.84	1,600.33	2,189.31	1,992.28	197.02	11.112		
9,200.00	7,806.99	7,822.99	7,822.99	52.84	156.93	-90.00	-493.84	1,600.33	2,277.35	2,080.21	197.14	11.552		
9,300.00	7,806.98	7,822.98	7,822.98	54.32	156.93	-90.00	-493.84	1,600.33	2,366.35	2,169.10	197.25	11.997		
9,400.00	7,806.98	7,822.98	7,822.98	55.82	156.93	-90.00	-493.84	1,600.33	2,456.19	2,258.84	197.34	12.446		
9,500.00	7,806.98	7,822.98	7,822.98	57.34	156.93	-90.00	-493.84	1,600.33	2,546.78	2,349.36	197.42	12.900		
9,600.00	7,806.98	7,822.98	7,822.98	58.87	156.93	-90.00	-493.84	1,600.33	2,638.06	2,440.57	197.50	13.357		
9,700.00	7,806.98	7,822.98	7,822.98	60.41	156.93	-90.00	-493.84	1,600.33	2,729.95	2,532.39	197.56	13.818		
9,800.00	7,806.98	7,822.98	7,822.98	61.96	156.93	-90.00	-493.84	1,600.33	2,822.39	2,624.77	197.62	14.282		
9,900.00	7,806.97	7,822.97	7,822.97	63.53	156.93	-90.00	-493.84	1,600.33	2,915.33	2,717.65	197.68	14.748		
10,000.00	7,806.97	7,822.97	7,822.97	65.10	156.93	-90.00	-493.84	1,600.33	3,008.72	2,811.00	197.73	15.217		
10,100.00	7,806.97	7,822.97	7,822.97	66.69	156.93	-90.00	-493.84	1,600.33	3,102.53	2,904.75	197.77	15.687		
10,200.00	7,806.97	7,822.97	7,822.97	68.29	156.93	-90.00	-493.84	1,600.33	3,196.71	2,998.89	197.82	16.160		
10,300.00	7,806.97	7,822.97	7,822.97	69.89	156.93	-90.00	-493.84	1,600.33	3,291.23	3,093.37	197.86	16.634		
10,400.00	7,806.97	7,822.97	7,822.97	71.50	156.93	-90.00	-493.84	1,600.33	3,386.07	3,188.17	197.90	17.110		
10,500.00	7,806.97	7,822.97	7,822.97	73.12	156.93	-90.00	-493.84	1,600.33	3,481.20	3,283.26	197.93	17.588		
10,600.00	7,806.96	7,822.96	7,822.96	74.75	156.93	-90.00	-493.84	1,600.33	3,576.59	3,378.62	197.97	18.067		
10,700.00	7,806.96	7,822.96	7,822.96	76.38	156.93	-90.00	-493.84	1,600.33	3,672.23	3,474.23	198.00	18.546		
10,800.00	7,806.96	7,822.96	7,822.96	78.02	156.93	-90.00	-493.84	1,600.33	3,768.09	3,570.06	198.04	19.027		
10,900.00	7,806.96	7,822.96	7,822.96	79.66	156.93	-90.00	-493.84	1,600.33	3,864.17	3,666.10	198.07	19.509		
11,000.00	7,806.96	7,822.96	7,822.96	81.31	156.93	-90.00	-493.84	1,600.33	3,960.43	3,762.33	198.10	19.992		
11,100.00	7,806.96	7,822.96	7,822.96	82.97	156.93	-90.00	-493.84	1,600.33	4,056.88	3,858.75	198.13	20.476		
11,200.00	7,806.95	7,822.95	7,822.95	84.63	156.93	-90.00	-493.84	1,600.33	4,153.50	3,955.34	198.16	20.960		
11,300.00	7,806.95	7,822.95	7,822.95	86.29	156.93	-90.00	-493.84	1,600.33	4,250.27	4,052.08	198.19	21.445		
11,400.00	7,806.95	7,822.95	7,822.95	87.96	156.93	-90.00	-493.84	1,600.33	4,347.19	4,148.97	198.22	21.931		
11,500.00	7,806.95	7,822.95	7,822.95	89.64	156.93	-90.00	-493.84	1,600.33	4,444.25	4,245.99	198.25	22.417		
11,600.00	7,806.95	7,822.95	7,822.95	91.31	156.93	-90.00	-493.84	1,600.33	4,541.43	4,343.15	198.29	22.904		
11,700.00	7,806.95	7,822.95	7,822.95	92.99	156.93	-90.00	-493.84	1,600.33	4,638.74	4,440.42	198.32	23.391		
11,800.00	7,806.95	7,822.95	7,822.95	94.68	156.93	-90.00	-493.84	1,600.33	4,736.15	4,537.80	198.35	23.878		
11,900.00	7,806.94	7,822.94	7,822.94	96.36	156.93	-90.00	-493.84	1,600.33	4,833.67	4,635.29	198.38	24.366		
12,000.00	7,806.94	7,822.94	7,822.94	98.05	156.93	-90.00	-493.84	1,600.33	4,931.29	4,732.88	198.41	24.854		
12,100.00	7,806.94	7,822.94	7,822.94	99.74	156.93	-90.00	-493.84	1,600.33	5,029.01	4,830.56	198.44	25.342		
12,200.00	7,806.94	7,822.94	7,822.94	101.44	156.93	-90.00	-493.84	1,600.33	5,126.81	4,928.33	198.48	25.831		
12,300.00	7,806.94	7,822.94	7,822.94	103.14	156.93	-90.00	-493.84	1,600.33	5,224.69	5,026.19	198.51	26.320		
12,400.00	7,806.94	7,822.94	7,822.94	104.84	156.93	-90.00	-493.84	1,600.33	5,322.66	5,124.12	198.54	26.809		
12,500.00	7,806.93	7,822.93	7,822.93	106.54	156.93	-90.00	-493.84	1,600.33	5,420.70	5,222.12	198.58	27.298		
12,600.00	7,806.93	7,822.93	7,822.93	108.25	156.93	-90.00	-493.84	1,600.33	5,518.81	5,320.19	198.61	27.787		
12,700.00	7,806.93	7,822.93	7,822.93	109.95	156.93	-90.00	-493.84	1,600.33	5,616.98	5,418.33	198.65	28.276		
12,800.00	7,806.93	7,822.93	7,822.93	111.66	156.93	-90.00	-493.84	1,600.33	5,715.22	5,516.54	198.68	28.766		
12,900.00	7,806.93	7,822.93	7,822.93	113.37	156.93	-90.00	-493.84	1,600.33	5,813.52	5,614.80	198.72	29.255		
13,000.00	7,806.93	7,822.93	7,822.93	115.09	156.93	-90.00	-493.84	1,600.33	5,911.88	5,713.12	198.76	29.744		
13,100.00	7,806.93	7,822.93	7,822.93	116.80	156.93	-90.00	-493.84	1,600.33	6,010.29	5,811.49	198.79	30.234		
13,200.00	7,806.92	7,822.92	7,822.92	118.52	156.93	-89.99	-493.84	1,600.33	6,108.75	5,909.92	198.83	30.723		
13,300.00	7,806.92	7,822.92	7,822.92	120.24	156.93	-89.99	-493.84	1,600.33	6,207.26	6,008.39	198.87	31.213		
13,400.00	7,806.92	7,822.92	7,822.92	121.96	156.93	-89.99	-493.84	1,600.33	6,305.82	6,106.91	198.91	31.702		
13,500.00	7,806.92	7,822.92	7,822.92	123.68	156.93	-89.99	-493.84	1,600.33	6,404.42	6,205.47	198.95	32.191		
13,600.00	7,806.92	7,822.92	7,822.92	125.40	156.93	-89.99	-493.84	1,600.33	6,503.06	6,304.08	198.99	32.681		
13,700.00	7,806.92	7,822.92	7,822.92	127.12	156.93	-89.99	-493.84	1,600.33	6,601.75	6,402.72	199.03	33.170		
13,800.00	7,806.91	7,822.91	7,822.91	128.85	156.93	-89.99	-493.84	1,600.33	6,700.47	6,501.40	199.07	33.659		
13,900.00	7,806.91	7,822.91	7,822.91	130.58	156.93	-89.99	-493.84	1,600.33	6,799.24	6,600.12	199.11	34.148		
14,000.00	7,806.91	7,822.91	7,822.91	132.30	156.93	-89.99	-493.84	1,600.33	6,898.03	6,698.88	199.16	34.636		
14,100.00	7,806.91	7,822.91	7,822.91	134.03	156.93	-89.99	-493.84	1,600.33	6,996.87	6,797.67	199.20	35.125		
14,200.00	7,806.91	7,822.91	7,822.91	135.76	156.93	-89.99	-493.84	1,600.33	7,095.73	6,896.49	199.24	35.613		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
14,300.00	7,806.91	7,822.91	7,822.91	137.50	156.93	-89.99	-493.84	1,600.33	7,194.63	6,995.34	199.29	36.102	
14,400.00	7,806.91	7,822.91	7,822.91	139.23	156.93	-89.99	-493.84	1,600.33	7,293.55	7,094.22	199.33	36.590	
14,500.00	7,806.90	7,822.90	7,822.90	140.96	156.93	-89.99	-493.84	1,600.33	7,392.51	7,193.13	199.38	37.078	
14,600.00	7,806.90	7,822.90	7,822.90	142.70	156.93	-89.99	-493.84	1,600.33	7,491.49	7,292.07	199.43	37.565	
14,700.00	7,806.90	7,822.90	7,822.90	144.43	156.93	-89.99	-493.84	1,600.33	7,590.50	7,391.03	199.47	38.053	
14,800.00	7,806.90	7,822.90	7,822.90	146.17	156.93	-89.99	-493.84	1,600.33	7,689.54	7,490.02	199.52	38.540	
14,900.00	7,806.90	7,822.90	7,822.90	147.91	156.93	-89.99	-493.84	1,600.33	7,788.60	7,589.03	199.57	39.027	
15,000.00	7,806.90	7,822.90	7,822.90	149.64	156.93	-89.99	-493.84	1,600.33	7,887.68	7,688.06	199.62	39.514	
15,100.00	7,806.89	7,822.89	7,822.89	151.38	156.93	-89.99	-493.84	1,600.33	7,986.79	7,787.12	199.67	40.000	
15,200.00	7,806.89	7,822.89	7,822.89	153.12	156.93	-89.99	-493.84	1,600.33	8,085.92	7,886.20	199.72	40.487	
15,300.00	7,806.89	7,822.89	7,822.89	154.86	156.93	-89.99	-493.84	1,600.33	8,185.06	7,985.30	199.77	40.973	
15,400.00	7,806.89	7,822.89	7,822.89	156.60	156.93	-89.99	-493.84	1,600.33	8,284.23	8,084.42	199.82	41.459	
15,500.00	7,806.89	7,822.89	7,822.89	158.35	156.93	-89.99	-493.84	1,600.33	8,383.42	8,183.55	199.87	41.944	
15,600.00	7,806.89	7,822.89	7,822.89	160.09	156.93	-89.99	-493.84	1,600.33	8,482.63	8,282.71	199.92	42.429	
15,700.00	7,806.89	7,822.89	7,822.89	161.83	156.93	-89.99	-493.84	1,600.33	8,581.86	8,381.88	199.98	42.914	
15,800.00	7,806.88	7,822.88	7,822.88	163.57	156.93	-89.99	-493.84	1,600.33	8,681.11	8,481.07	200.03	43.399	
15,900.00	7,806.88	7,822.88	7,822.88	165.32	156.93	-89.99	-493.84	1,600.33	8,780.37	8,580.28	200.09	43.883	
16,000.00	7,806.88	7,822.88	7,822.88	167.06	156.93	-89.99	-493.84	1,600.33	8,879.65	8,679.51	200.14	44.367	
16,100.00	7,806.88	7,822.88	7,822.88	168.81	156.93	-89.99	-493.84	1,600.33	8,978.94	8,778.74	200.20	44.851	
16,200.00	7,806.88	7,822.88	7,822.88	170.56	156.93	-89.99	-493.84	1,600.33	9,078.25	8,878.00	200.25	45.334	
16,300.00	7,806.88	7,822.88	7,822.88	172.30	156.93	-89.99	-493.84	1,600.33	9,177.58	8,977.27	200.31	45.817	
16,400.00	7,806.87	7,822.87	7,822.87	174.05	156.93	-89.99	-493.84	1,600.33	9,276.92	9,076.55	200.37	46.300	
16,500.00	7,806.87	7,822.87	7,822.87	175.80	156.93	-89.99	-493.84	1,600.33	9,376.27	9,175.84	200.42	46.782	
16,600.00	7,806.87	7,822.87	7,822.87	177.55	156.93	-89.99	-493.84	1,600.33	9,475.64	9,275.15	200.48	47.264	
16,700.00	7,806.87	7,822.87	7,822.87	179.30	156.93	-89.99	-493.84	1,600.33	9,575.02	9,374.47	200.54	47.746	
16,800.00	7,806.87	7,822.87	7,822.87	181.04	156.93	-89.99	-493.84	1,600.33	9,674.41	9,473.81	200.60	48.227	
16,900.00	7,806.87	7,822.87	7,822.87	182.79	156.93	-89.99	-493.84	1,600.33	9,773.82	9,573.15	200.66	48.708	
17,000.00	7,806.87	7,822.87	7,822.87	184.54	156.93	-89.99	-493.84	1,600.33	9,873.23	9,672.51	200.72	49.188	
17,100.00	7,806.86	7,822.86	7,822.86	186.30	156.93	-89.99	-493.84	1,600.33	9,972.66	9,771.88	200.78	49.669	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	6.57	3,770.32	433.98	3,795.31					
100.00	100.00	72.00	72.00	0.13	0.83	6.57	3,770.32	433.98	3,795.21	3,794.24	0.97	3,919.094		
200.00	200.00	172.00	172.00	0.49	2.81	6.57	3,770.32	433.98	3,795.21	3,791.90	3.31	1,147.924		
300.00	300.00	272.00	272.00	0.85	4.95	6.57	3,770.32	433.98	3,795.21	3,789.40	5.81	653.771		
400.00	400.00	372.00	372.00	1.21	7.01	6.57	3,770.32	433.98	3,795.21	3,786.99	8.22	461.918		
500.00	500.00	472.00	472.00	1.57	9.04	6.57	3,770.32	433.98	3,795.21	3,784.60	10.61	357.786		
600.00	600.00	572.00	572.00	1.93	11.06	6.57	3,770.32	433.98	3,795.21	3,782.22	12.99	292.152		
700.00	700.00	672.00	672.00	2.29	13.08	6.57	3,770.32	433.98	3,795.21	3,779.84	15.37	246.935		
800.00	800.00	772.00	772.00	2.64	15.10	6.57	3,770.32	433.98	3,795.21	3,777.46	17.75	213.869		
900.00	900.00	872.00	872.00	3.00	17.12	6.57	3,770.32	433.98	3,795.21	3,775.09	20.12	188.628		
1,000.00	1,000.00	972.00	972.00	3.36	19.13	6.57	3,770.32	433.98	3,795.21	3,772.72	22.49	168.724		
1,100.00	1,100.00	1,072.00	1,072.00	3.72	21.15	6.57	3,770.32	433.98	3,795.21	3,770.34	24.87	152.625		
1,200.00	1,200.00	1,172.00	1,172.00	4.08	23.16	6.57	3,770.32	433.98	3,795.21	3,767.97	27.24	139.333		
1,300.00	1,300.00	1,272.00	1,272.00	4.44	25.17	6.57	3,770.32	433.98	3,795.21	3,765.60	29.61	128.173 CC		
1,400.00	1,399.98	1,371.98	1,371.98	4.78	27.19	-144.73	3,770.32	433.98	3,796.63	3,764.67	31.96	118.776 ES		
1,500.00	1,499.84	1,471.84	1,471.84	5.11	29.20	-144.73	3,770.32	433.98	3,800.91	3,766.61	34.30	110.800		
1,600.00	1,599.45	1,571.45	1,571.45	5.44	31.20	-144.72	3,770.32	433.98	3,808.03	3,771.39	36.64	103.920		
1,700.00	1,698.70	1,670.70	1,670.70	5.79	33.20	-144.71	3,770.32	433.98	3,818.01	3,779.02	38.98	97.943		
1,800.00	1,797.47	1,769.47	1,769.47	6.15	35.19	-144.69	3,770.32	433.98	3,830.83	3,789.51	41.32	92.719		
1,900.00	1,895.62	1,867.62	1,867.62	6.53	37.16	-144.67	3,770.32	433.98	3,846.49	3,802.84	43.65	88.128		
1,912.93	1,908.27	1,880.27	1,880.27	6.58	37.41	-144.67	3,770.32	433.98	3,848.72	3,804.78	43.95	87.572		
2,000.00	1,993.35	1,965.35	1,965.35	6.93	39.13	-144.83	3,770.32	433.98	3,863.94	3,817.96	45.97	84.046		
2,100.00	2,091.07	2,063.07	2,063.07	7.34	41.09	-145.01	3,770.32	433.98	3,881.44	3,833.14	48.31	80.351		
2,200.00	2,188.79	2,160.79	2,160.79	7.77	43.06	-145.18	3,770.32	433.98	3,898.99	3,848.34	50.64	76.988		
2,300.00	2,286.51	2,258.51	2,258.51	8.20	45.02	-145.36	3,770.32	433.98	3,916.56	3,863.58	52.99	73.916		
2,400.00	2,384.23	2,356.23	2,356.23	8.65	46.99	-145.54	3,770.32	433.98	3,934.18	3,878.85	55.33	71.100		
2,500.00	2,481.95	2,453.95	2,453.95	9.10	48.96	-145.71	3,770.32	433.98	3,951.83	3,894.15	57.68	68.509		
2,600.00	2,579.67	2,551.67	2,551.67	9.56	50.92	-145.88	3,770.32	433.98	3,969.52	3,909.48	60.04	66.119		
2,700.00	2,677.39	2,649.39	2,649.39	10.02	52.89	-146.05	3,770.32	433.98	3,987.24	3,924.85	62.39	63.907		
2,800.00	2,775.11	2,747.11	2,747.11	10.49	54.85	-146.22	3,770.32	433.98	4,004.99	3,940.25	64.75	61.855		
2,900.00	2,872.83	2,844.83	2,844.83	10.96	56.82	-146.39	3,770.32	433.98	4,022.78	3,955.68	67.11	59.946		
3,000.00	2,970.55	2,942.55	2,942.55	11.44	58.78	-146.55	3,770.32	433.98	4,040.60	3,971.14	69.47	58.165		
3,100.00	3,068.27	3,040.27	3,040.27	11.92	60.75	-146.71	3,770.32	433.98	4,058.46	3,986.63	71.83	56.501		
3,200.00	3,165.99	3,137.99	3,137.99	12.40	62.71	-146.88	3,770.32	433.98	4,076.35	4,002.15	74.19	54.943		
3,300.00	3,263.71	3,235.71	3,235.71	12.88	64.68	-147.04	3,770.32	433.98	4,094.27	4,017.71	76.56	53.481		
3,400.00	3,361.43	3,333.43	3,333.43	13.37	66.64	-147.20	3,770.32	433.98	4,112.22	4,033.30	78.92	52.106		
3,500.00	3,459.15	3,431.15	3,431.15	13.86	68.61	-147.36	3,770.32	433.98	4,130.20	4,048.91	81.29	50.811		
3,600.00	3,556.87	3,528.87	3,528.87	14.35	70.58	-147.51	3,770.32	433.98	4,148.21	4,064.56	83.65	49.590		
3,700.00	3,654.59	3,626.59	3,626.59	14.84	72.54	-147.67	3,770.32	433.98	4,166.25	4,080.24	86.02	48.435		
3,800.00	3,752.31	3,724.31	3,724.31	15.34	74.51	-147.82	3,770.32	433.98	4,184.33	4,095.94	88.38	47.343		
3,900.00	3,850.03	3,822.03	3,822.03	15.83	76.47	-147.98	3,770.32	433.98	4,202.43	4,111.68	90.75	46.308		
4,000.00	3,947.75	3,919.75	3,919.75	16.33	78.44	-148.13	3,770.32	433.98	4,220.56	4,127.44	93.12	45.326		
4,100.00	4,045.47	4,017.47	4,017.47	16.83	80.40	-148.28	3,770.32	433.98	4,238.72	4,143.24	95.48	44.392		
4,200.00	4,143.19	4,115.19	4,115.19	17.32	82.37	-148.43	3,770.32	433.98	4,256.91	4,159.06	97.85	43.504		
4,300.00	4,240.91	4,212.91	4,212.91	17.82	84.33	-148.58	3,770.32	433.98	4,275.13	4,174.91	100.22	42.658		
4,400.00	4,338.63	4,310.63	4,310.63	18.32	86.30	-148.72	3,770.32	433.98	4,293.37	4,190.79	102.59	41.852		
4,500.00	4,436.35	4,408.35	4,408.35	18.82	88.26	-148.87	3,770.32	433.98	4,311.64	4,206.69	104.95	41.082		
4,600.00	4,534.07	4,506.07	4,506.07	19.33	90.23	-149.01	3,770.32	433.98	4,329.94	4,222.62	107.32	40.346		
4,700.00	4,631.79	4,603.79	4,603.79	19.83	92.19	-149.16	3,770.32	433.98	4,348.27	4,238.58	109.69	39.643		
4,800.00	4,729.51	4,701.51	4,701.51	20.33	94.16	-149.30	3,770.32	433.98	4,366.62	4,254.57	112.05	38.969		
4,900.00	4,827.23	4,800.77	4,799.23	20.83	96.15	-149.44	3,770.32	433.98	4,385.00	4,270.55	114.45	38.313		
5,000.00	4,924.95	4,903.05	4,896.95	21.34	98.21	-149.58	3,770.32	433.98	4,403.40	4,286.49	116.91	37.665		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,005.33	4,994.67	21.84	100.27	-149.72	3,770.32	433.98	4,421.83	4,302.46	119.37	37.044		
5,200.00	5,120.39	5,107.61	5,092.39	22.35	102.33	-149.86	3,770.32	433.98	4,440.28	4,318.46	121.83	36.448		
5,300.00	5,218.11	5,209.89	5,190.11	22.85	104.38	-149.99	3,770.32	433.98	4,458.76	4,334.48	124.28	35.875		
5,400.00	5,315.83	5,287.83	5,287.83	23.36	105.95	-150.13	3,770.32	433.98	4,477.27	4,351.01	126.25	35.463		
5,500.00	5,413.55	5,385.55	5,385.55	23.86	107.91	-150.26	3,770.32	433.98	4,495.79	4,367.17	128.62	34.954		
5,600.00	5,511.27	5,483.27	5,483.27	24.37	109.88	-150.39	3,770.32	433.98	4,514.34	4,383.36	130.98	34.465		
5,700.00	5,608.99	5,580.99	5,580.99	24.88	111.85	-150.53	3,770.32	433.98	4,532.92	4,399.57	133.35	33.993		
5,800.00	5,706.71	5,678.71	5,678.71	25.38	113.81	-150.66	3,770.32	433.98	4,551.52	4,415.80	135.72	33.537		
5,900.00	5,804.43	5,776.43	5,776.43	25.89	115.78	-150.79	3,770.32	433.98	4,570.14	4,432.06	138.08	33.097		
6,000.00	5,902.15	5,874.15	5,874.15	26.40	117.74	-150.92	3,770.32	433.98	4,588.78	4,448.34	140.45	32.673		
6,100.00	5,999.87	5,971.87	5,971.87	26.91	119.71	-151.04	3,770.32	433.98	4,607.45	4,464.64	142.81	32.263		
6,200.00	6,097.59	6,069.59	6,069.59	27.42	121.67	-151.17	3,770.32	433.98	4,626.14	4,480.96	145.18	31.866		
6,300.00	6,195.30	6,167.30	6,167.30	27.92	123.64	-151.30	3,770.32	433.98	4,644.85	4,497.31	147.54	31.482		
6,400.00	6,293.02	6,265.02	6,265.02	28.43	125.60	-151.42	3,770.32	433.98	4,663.58	4,513.67	149.90	31.110		
6,500.00	6,390.74	6,362.74	6,362.74	28.94	127.57	-151.54	3,770.32	433.98	4,682.33	4,530.06	152.27	30.750		
6,600.00	6,488.46	6,460.46	6,460.46	29.45	129.53	-151.67	3,770.32	433.98	4,701.10	4,546.47	154.63	30.402		
6,638.14	6,525.73	6,502.27	6,497.73	29.64	130.37	-151.71	3,770.32	433.98	4,708.27	4,552.64	155.63	30.254		
6,700.00	6,586.32	6,558.32	6,558.32	29.95	131.50	-151.89	3,770.32	433.98	4,719.32	4,562.32	157.00	30.060		
6,800.00	6,684.79	6,656.79	6,656.79	30.42	133.48	-152.14	3,770.32	433.98	4,734.74	4,575.38	159.36	29.711		
6,900.00	6,783.81	6,755.81	6,755.81	30.85	135.47	-152.33	3,770.32	433.98	4,747.11	4,585.39	161.73	29.353		
7,000.00	6,883.25	6,855.25	6,855.25	31.24	137.47	-152.48	3,770.32	433.98	4,756.42	4,592.33	164.09	28.987		
7,100.00	6,983.00	6,955.00	6,955.00	31.60	139.48	-152.57	3,770.32	433.98	4,762.64	4,596.21	166.44	28.615		
7,200.00	7,082.93	7,054.93	7,054.93	31.92	141.49	-152.62	3,770.32	433.98	4,765.78	4,596.99	168.78	28.236		
7,251.07	7,134.00	7,106.00	7,106.00	32.06	142.51	-1.33	3,770.32	433.98	4,766.18	4,596.21	169.97	28.041		
7,300.00	7,182.93	7,154.93	7,154.93	32.19	143.50	-1.33	3,770.32	433.98	4,766.18	4,595.08	171.10	27.856		
7,351.07	7,234.00	7,206.00	7,206.00	32.32	144.52	-1.33	3,770.32	433.98	4,766.18	4,593.90	172.28	27.665		
7,400.00	7,282.87	7,254.87	7,254.87	32.47	145.51	179.01	3,770.32	433.98	4,768.27	4,594.84	173.42	27.495		
7,450.00	7,332.44	7,304.44	7,304.44	32.67	146.50	179.00	3,770.32	433.98	4,774.70	4,600.10	174.59	27.348		
7,500.00	7,381.26	7,353.26	7,353.26	32.90	147.49	178.98	3,770.32	433.98	4,785.42	4,609.67	175.75	27.228		
7,550.00	7,428.96	7,400.96	7,400.96	33.18	148.45	178.96	3,770.32	433.98	4,800.36	4,623.46	176.90	27.137		
7,600.00	7,475.17	7,447.17	7,447.17	33.48	149.37	178.92	3,770.32	433.98	4,819.40	4,641.39	178.01	27.074		
7,650.00	7,519.55	7,508.45	7,491.55	33.82	150.61	178.88	3,770.32	433.98	4,842.39	4,662.97	179.42	26.989 SF		
7,700.00	7,561.76	7,533.76	7,533.76	34.20	151.12	178.82	3,770.32	433.98	4,869.16	4,689.06	180.10	27.035		
7,750.00	7,601.47	7,573.47	7,573.47	34.60	151.91	178.75	3,770.32	433.98	4,899.51	4,718.44	181.07	27.059		
7,800.00	7,638.39	7,610.39	7,610.39	35.04	152.66	178.65	3,770.32	433.98	4,933.20	4,751.23	181.97	27.110		
7,850.00	7,672.23	7,644.23	7,644.23	35.50	153.34	178.53	3,770.32	433.98	4,969.99	4,787.19	182.79	27.189		
7,900.00	7,702.74	7,674.74	7,674.74	35.99	153.95	178.37	3,770.32	433.98	5,009.58	4,826.04	183.54	27.295		
7,950.00	7,729.67	7,701.67	7,701.67	36.50	154.49	178.14	3,770.32	433.98	5,051.67	4,867.48	184.19	27.426		
8,000.00	7,752.84	7,724.84	7,724.84	37.04	154.96	177.82	3,770.32	433.98	5,095.96	4,911.20	184.76	27.582		
8,050.00	7,772.06	7,744.06	7,744.06	37.60	155.35	177.34	3,770.32	433.98	5,142.10	4,956.87	185.22	27.762		
8,100.00	7,787.18	7,759.18	7,759.18	38.17	155.65	176.52	3,770.32	433.98	5,189.73	5,004.14	185.59	27.964		
8,150.00	7,798.10	7,770.10	7,770.10	38.76	155.87	174.89	3,770.32	433.98	5,238.50	5,052.65	185.85	28.187		
8,200.00	7,804.72	7,776.72	7,776.72	39.36	156.00	170.10	3,770.32	433.98	5,288.04	5,102.03	186.01	28.428		
8,251.15	7,807.00	7,779.00	7,779.00	39.97	156.05	89.94	3,770.32	433.98	5,339.11	5,153.04	186.07	28.694		
8,300.00	7,807.00	7,779.00	7,779.00	40.56	156.05	89.94	3,770.32	433.98	5,387.96	5,201.88	186.08	28.956		
8,400.00	7,807.00	7,779.00	7,779.00	41.80	156.05	89.94	3,770.32	433.98	5,487.95	5,301.86	186.09	29.491		
8,500.00	7,807.00	7,779.00	7,779.00	43.08	156.05	89.94	3,770.32	433.98	5,587.94	5,401.84	186.10	30.027		
8,600.00	7,806.99	7,778.99	7,778.99	44.40	156.05	89.94	3,770.32	433.98	5,687.93	5,501.82	186.11	30.562		
8,700.00	7,806.99	7,778.99	7,778.99	45.74	156.05	89.94	3,770.32	433.98	5,787.92	5,601.79	186.13	31.097		
8,800.00	7,806.99	7,778.99	7,778.99	47.11	156.05	89.94	3,770.32	433.98	5,887.91	5,701.77	186.14	31.631		
8,900.00	7,806.99	7,778.99	7,778.99	48.51	156.05	89.94	3,770.32	433.98	5,987.90	5,801.74	186.16	32.166		
9,000.00	7,806.99	7,778.99	7,778.99	49.93	156.05	89.93	3,770.32	433.98	6,087.89	5,901.71	186.18	32.700		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-2 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,100.00	7,806.99	7,778.99	7,778.99	51.38	156.05	89.93	3,770.32	433.98	6,187.88	6,001.69	186.19	33.234	
9,200.00	7,806.99	7,778.99	7,778.99	52.84	156.05	89.93	3,770.32	433.98	6,287.87	6,101.66	186.21	33.767	
9,300.00	7,806.98	7,778.98	7,778.98	54.32	156.05	89.93	3,770.32	433.98	6,387.86	6,201.63	186.23	34.300	
9,400.00	7,806.98	7,778.98	7,778.98	55.82	156.05	89.93	3,770.32	433.98	6,487.85	6,301.60	186.25	34.833	
9,500.00	7,806.98	7,778.98	7,778.98	57.34	156.05	89.93	3,770.32	433.98	6,587.85	6,401.57	186.28	35.366	
9,600.00	7,806.98	7,778.98	7,778.98	58.87	156.05	89.93	3,770.32	433.98	6,687.84	6,501.54	186.30	35.898	
9,700.00	7,806.98	7,778.98	7,778.98	60.41	156.05	89.93	3,770.32	433.98	6,787.83	6,601.51	186.32	36.430	
9,800.00	7,806.98	7,778.98	7,778.98	61.96	156.05	89.93	3,770.32	433.98	6,887.82	6,701.47	186.35	36.962	
9,900.00	7,806.97	7,778.97	7,778.97	63.53	156.05	89.92	3,770.32	433.98	6,987.82	6,801.44	186.38	37.493	
10,000.00	7,806.97	7,778.97	7,778.97	65.10	156.05	89.92	3,770.32	433.98	7,087.81	6,901.41	186.40	38.024	
10,100.00	7,806.97	7,778.97	7,778.97	66.69	156.05	89.92	3,770.32	433.98	7,187.80	7,001.37	186.43	38.555	
10,200.00	7,806.97	7,778.97	7,778.97	68.29	156.05	89.92	3,770.32	433.98	7,287.80	7,101.34	186.46	39.085	
10,300.00	7,806.97	7,778.97	7,778.97	69.89	156.05	89.92	3,770.32	433.98	7,387.79	7,201.30	186.49	39.615	
10,400.00	7,806.97	7,778.97	7,778.97	71.50	156.05	89.92	3,770.32	433.98	7,487.79	7,301.26	186.52	40.144	
10,500.00	7,806.97	7,778.97	7,778.97	73.12	156.05	89.92	3,770.32	433.98	7,587.78	7,401.23	186.55	40.674	
10,600.00	7,806.96	7,778.96	7,778.96	74.75	156.05	89.92	3,770.32	433.98	7,687.77	7,501.19	186.59	41.202	
10,700.00	7,806.96	7,778.96	7,778.96	76.38	156.05	89.92	3,770.32	433.98	7,787.77	7,601.15	186.62	41.731	
10,800.00	7,806.96	7,778.96	7,778.96	78.02	156.05	89.92	3,770.32	433.98	7,887.76	7,701.11	186.65	42.259	
10,900.00	7,806.96	7,778.96	7,778.96	79.66	156.05	89.91	3,770.32	433.98	7,987.76	7,801.07	186.69	42.786	
11,000.00	7,806.96	7,778.96	7,778.96	81.31	156.05	89.91	3,770.32	433.98	8,087.75	7,901.03	186.73	43.313	
11,100.00	7,806.96	7,778.96	7,778.96	82.97	156.05	89.91	3,770.32	433.98	8,187.75	8,000.98	186.76	43.840	
11,200.00	7,806.95	7,778.95	7,778.95	84.63	156.05	89.91	3,770.32	433.98	8,287.74	8,100.94	186.80	44.367	
11,300.00	7,806.95	7,778.95	7,778.95	86.29	156.05	89.91	3,770.32	433.98	8,387.74	8,200.90	186.84	44.892	
11,400.00	7,806.95	7,778.95	7,778.95	87.96	156.05	89.91	3,770.32	433.98	8,487.73	8,300.85	186.88	45.418	
11,500.00	7,806.95	7,778.95	7,778.95	89.64	156.05	89.91	3,770.32	433.98	8,587.73	8,400.81	186.92	45.943	
11,600.00	7,806.95	7,778.95	7,778.95	91.31	156.05	89.91	3,770.32	433.98	8,687.72	8,500.76	186.96	46.468	
11,700.00	7,806.95	7,778.95	7,778.95	92.99	156.05	89.91	3,770.32	433.98	8,787.72	8,600.71	187.01	46.992	
11,800.00	7,806.95	7,778.95	7,778.95	94.68	156.05	89.90	3,770.32	433.98	8,887.71	8,700.67	187.05	47.516	
11,900.00	7,806.94	7,778.94	7,778.94	96.36	156.05	89.90	3,770.32	433.98	8,987.71	8,800.62	187.09	48.039	
12,000.00	7,806.94	7,778.94	7,778.94	98.05	156.05	89.90	3,770.32	433.98	9,087.71	8,900.57	187.14	48.562	
12,100.00	7,806.94	7,778.94	7,778.94	99.74	156.05	89.90	3,770.32	433.98	9,187.70	9,000.52	187.18	49.084	
12,200.00	7,806.94	7,778.94	7,778.94	101.44	156.05	89.90	3,770.32	433.98	9,287.70	9,100.47	187.23	49.606	
12,300.00	7,806.94	7,778.94	7,778.94	103.14	156.05	89.90	3,770.32	433.98	9,387.69	9,200.42	187.28	50.127	
12,400.00	7,806.94	7,778.94	7,778.94	104.84	156.05	89.90	3,770.32	433.98	9,487.69	9,300.36	187.33	50.648	
12,500.00	7,806.93	7,778.93	7,778.93	106.54	156.05	89.90	3,770.32	433.98	9,587.69	9,400.31	187.38	51.168	
12,600.00	7,806.93	7,778.93	7,778.93	108.25	156.05	89.90	3,770.32	433.98	9,687.68	9,500.26	187.43	51.688	
12,700.00	7,806.93	7,778.93	7,778.93	109.95	156.05	89.89	3,770.32	433.98	9,787.68	9,600.20	187.48	52.208	
12,800.00	7,806.93	7,778.93	7,778.93	111.66	156.05	89.89	3,770.32	433.98	9,887.68	9,700.15	187.53	52.727	
12,900.00	7,806.93	7,778.93	7,778.93	113.37	156.05	89.89	3,770.32	433.98	9,987.67	9,800.09	187.58	53.245	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	23.00	23.00	0.00	0.27	-47.73	2,354.88	-2,591.14	3,501.35					
100.00	100.00	123.00	123.00	0.13	1.69	-47.73	2,354.88	-2,591.14	3,501.35	3,499.53	1.82	1,922.360		
200.00	200.00	223.00	223.00	0.49	3.94	-47.73	2,354.88	-2,591.14	3,501.35	3,496.92	4.43	790.743		
300.00	300.00	323.00	323.00	0.85	6.01	-47.73	2,354.88	-2,591.14	3,501.35	3,494.49	6.86	510.626		
400.00	400.00	423.00	423.00	1.21	8.04	-47.73	2,354.88	-2,591.14	3,501.35	3,492.09	9.25	378.329		
500.00	500.00	523.00	523.00	1.57	10.07	-47.73	2,354.88	-2,591.14	3,501.35	3,489.71	11.64	300.780		
600.00	600.00	623.00	623.00	1.93	12.09	-47.73	2,354.88	-2,591.14	3,501.35	3,487.33	14.02	249.715		
700.00	700.00	723.00	723.00	2.29	14.11	-47.73	2,354.88	-2,591.14	3,501.35	3,484.95	16.40	213.515		
800.00	800.00	823.00	823.00	2.64	16.13	-47.73	2,354.88	-2,591.14	3,501.35	3,482.57	18.77	186.501		
900.00	900.00	923.00	923.00	3.00	18.15	-47.73	2,354.88	-2,591.14	3,501.35	3,480.20	21.15	165.565		
1,000.00	1,000.00	1,023.00	1,023.00	3.36	20.16	-47.73	2,354.88	-2,591.14	3,501.35	3,477.83	23.52	148.861		
1,100.00	1,100.00	1,123.00	1,123.00	3.72	22.17	-47.73	2,354.88	-2,591.14	3,501.35	3,475.45	25.89	135.222		
1,200.00	1,200.00	1,223.00	1,223.00	4.08	24.19	-47.73	2,354.88	-2,591.14	3,501.35	3,473.08	28.27	123.875		
1,300.00	1,300.00	1,323.00	1,323.00	4.44	26.20	-47.73	2,354.88	-2,591.14	3,501.35	3,470.71	30.64	114.286 CC		
1,400.00	1,399.98	1,422.98	1,422.98	4.78	28.21	160.97	2,354.88	-2,591.14	3,503.00	3,470.01	32.99	106.181 ES		
1,500.00	1,499.84	1,522.84	1,522.84	5.11	30.22	160.96	2,354.88	-2,591.14	3,507.94	3,472.62	35.33	99.293		
1,600.00	1,599.45	1,622.45	1,622.45	5.44	32.23	160.96	2,354.88	-2,591.14	3,516.19	3,478.52	37.67	93.350		
1,700.00	1,698.70	1,721.70	1,721.70	5.79	34.22	160.94	2,354.88	-2,591.14	3,527.71	3,487.71	40.00	88.192		
1,800.00	1,797.47	1,820.47	1,820.47	6.15	36.21	160.93	2,354.88	-2,591.14	3,542.52	3,500.19	42.33	83.692		
1,900.00	1,895.62	1,918.62	1,918.62	6.53	38.19	160.91	2,354.88	-2,591.14	3,560.59	3,515.94	44.65	79.749		
1,912.93	1,908.27	1,931.27	1,931.27	6.58	38.44	160.91	2,354.88	-2,591.14	3,563.16	3,518.21	44.95	79.271		
2,000.00	1,993.35	2,016.35	2,016.35	6.93	40.15	161.00	2,354.88	-2,591.14	3,580.68	3,533.72	46.96	76.248		
2,100.00	2,091.07	2,114.07	2,114.07	7.34	42.12	161.11	2,354.88	-2,591.14	3,600.81	3,551.53	49.28	73.073		
2,200.00	2,188.79	2,211.79	2,211.79	7.77	44.08	161.22	2,354.88	-2,591.14	3,620.95	3,569.35	51.60	70.178		
2,300.00	2,286.51	2,309.51	2,309.51	8.20	46.05	161.33	2,354.88	-2,591.14	3,641.11	3,587.19	53.92	67.527		
2,400.00	2,384.23	2,407.23	2,407.23	8.65	48.02	161.43	2,354.88	-2,591.14	3,661.27	3,605.03	56.25	65.091		
2,500.00	2,481.95	2,504.95	2,504.95	9.10	49.98	161.54	2,354.88	-2,591.14	3,681.45	3,622.88	58.58	62.846		
2,600.00	2,579.67	2,602.67	2,602.67	9.56	51.95	161.64	2,354.88	-2,591.14	3,701.65	3,640.73	60.91	60.771		
2,700.00	2,677.39	2,700.39	2,700.39	10.02	53.91	161.75	2,354.88	-2,591.14	3,721.85	3,658.60	63.25	58.847		
2,800.00	2,775.11	2,801.89	2,798.11	10.49	55.95	161.85	2,354.88	-2,591.14	3,742.06	3,676.40	65.66	56.992		
2,900.00	2,872.83	2,904.17	2,895.83	10.96	58.01	161.95	2,354.88	-2,591.14	3,762.29	3,694.20	68.09	55.255		
3,000.00	2,970.55	3,006.45	2,993.55	11.44	60.07	162.05	2,354.88	-2,591.14	3,782.53	3,712.00	70.52	53.637		
3,100.00	3,068.27	3,108.73	3,091.27	11.92	62.13	162.15	2,354.88	-2,591.14	3,802.77	3,729.82	72.95	52.125		
3,200.00	3,165.99	3,188.99	3,188.99	12.40	63.74	162.24	2,354.88	-2,591.14	3,823.03	3,748.09	74.95	51.011		
3,300.00	3,263.71	3,286.71	3,286.71	12.88	65.70	162.34	2,354.88	-2,591.14	3,843.30	3,766.01	77.29	49.726		
3,400.00	3,361.43	3,384.43	3,384.43	13.37	67.67	162.44	2,354.88	-2,591.14	3,863.58	3,783.95	79.63	48.517		
3,500.00	3,459.15	3,482.15	3,482.15	13.86	69.64	162.53	2,354.88	-2,591.14	3,883.87	3,801.89	81.98	47.377		
3,600.00	3,556.87	3,579.87	3,579.87	14.35	71.60	162.62	2,354.88	-2,591.14	3,904.17	3,819.84	84.32	46.300		
3,700.00	3,654.59	3,677.59	3,677.59	14.84	73.57	162.72	2,354.88	-2,591.14	3,924.48	3,837.81	86.67	45.281		
3,800.00	3,752.31	3,775.31	3,775.31	15.34	75.53	162.81	2,354.88	-2,591.14	3,944.80	3,855.78	89.02	44.315		
3,900.00	3,850.03	3,873.03	3,873.03	15.83	77.50	162.90	2,354.88	-2,591.14	3,965.12	3,873.76	91.36	43.399		
4,000.00	3,947.75	3,970.75	3,970.75	16.33	79.46	162.99	2,354.88	-2,591.14	3,985.46	3,891.75	93.71	42.529		
4,100.00	4,045.47	4,068.47	4,068.47	16.83	81.43	163.08	2,354.88	-2,591.14	4,005.81	3,909.75	96.06	41.701		
4,200.00	4,143.19	4,166.19	4,166.19	17.32	83.39	163.16	2,354.88	-2,591.14	4,026.17	3,927.76	98.41	40.912		
4,300.00	4,240.91	4,263.91	4,263.91	17.82	85.36	163.25	2,354.88	-2,591.14	4,046.53	3,945.77	100.76	40.161		
4,400.00	4,338.63	4,361.63	4,361.63	18.32	87.32	163.34	2,354.88	-2,591.14	4,066.91	3,963.80	103.11	39.443		
4,500.00	4,436.35	4,459.35	4,459.35	18.82	89.29	163.42	2,354.88	-2,591.14	4,087.29	3,981.83	105.46	38.758		
4,600.00	4,534.07	4,557.07	4,557.07	19.33	91.25	163.51	2,354.88	-2,591.14	4,107.68	3,999.87	107.81	38.102		
4,700.00	4,631.79	4,654.79	4,654.79	19.83	93.22	163.59	2,354.88	-2,591.14	4,128.08	4,017.92	110.16	37.475		
4,800.00	4,729.51	4,752.51	4,752.51	20.33	95.18	163.67	2,354.88	-2,591.14	4,148.49	4,035.98	112.51	36.873		
4,900.00	4,827.23	4,850.23	4,850.23	20.83	97.15	163.75	2,354.88	-2,591.14	4,168.91	4,054.05	114.86	36.297		
5,000.00	4,924.95	4,947.95	4,947.95	21.34	99.11	163.84	2,354.88	-2,591.14	4,189.33	4,072.12	117.21	35.743		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,045.67	5,045.67	21.84	101.08	163.92	2,354.88	-2,591.14	4,209.76	4,090.21	119.56	35.211		
5,200.00	5,120.39	5,143.39	5,143.39	22.35	103.05	163.99	2,354.88	-2,591.14	4,230.20	4,108.30	121.91	34.700		
5,300.00	5,218.11	5,241.11	5,241.11	22.85	105.01	164.07	2,354.88	-2,591.14	4,250.65	4,126.39	124.26	34.208		
5,400.00	5,315.83	5,338.83	5,338.83	23.36	106.98	164.15	2,354.88	-2,591.14	4,271.11	4,144.50	126.61	33.734		
5,500.00	5,413.55	5,436.55	5,436.55	23.86	108.94	164.23	2,354.88	-2,591.14	4,291.57	4,162.61	128.96	33.278		
5,600.00	5,511.27	5,534.27	5,534.27	24.37	110.91	164.31	2,354.88	-2,591.14	4,312.04	4,180.73	131.31	32.838		
5,700.00	5,608.99	5,631.99	5,631.99	24.88	112.87	164.38	2,354.88	-2,591.14	4,332.52	4,198.86	133.66	32.414		
5,800.00	5,706.71	5,729.71	5,729.71	25.38	114.84	164.46	2,354.88	-2,591.14	4,353.01	4,216.99	136.01	32.004		
5,900.00	5,804.43	5,827.43	5,827.43	25.89	116.80	164.53	2,354.88	-2,591.14	4,373.50	4,235.14	138.36	31.608		
6,000.00	5,902.15	5,925.15	5,925.15	26.40	118.77	164.60	2,354.88	-2,591.14	4,394.00	4,253.28	140.72	31.226		
6,100.00	5,999.87	6,022.87	6,022.87	26.91	120.73	164.68	2,354.88	-2,591.14	4,414.51	4,271.44	143.07	30.856		
6,200.00	6,097.59	6,120.59	6,120.59	27.42	122.70	164.75	2,354.88	-2,591.14	4,435.02	4,289.60	145.42	30.498		
6,300.00	6,195.30	6,218.30	6,218.30	27.92	124.66	164.82	2,354.88	-2,591.14	4,455.54	4,307.77	147.77	30.152		
6,400.00	6,293.02	6,316.02	6,316.02	28.43	126.63	164.89	2,354.88	-2,591.14	4,476.07	4,325.95	150.12	29.816		
6,500.00	6,390.74	6,413.74	6,413.74	28.94	128.59	164.96	2,354.88	-2,591.14	4,496.60	4,344.13	152.47	29.491		
6,600.00	6,488.46	6,511.46	6,511.46	29.45	130.56	165.03	2,354.88	-2,591.14	4,517.14	4,362.32	154.82	29.176		
6,638.14	6,525.73	6,548.73	6,548.73	29.64	131.31	165.06	2,354.88	-2,591.14	4,524.98	4,369.26	155.72	29.058		
6,700.00	6,586.32	6,609.32	6,609.32	29.95	132.53	165.16	2,354.88	-2,591.14	4,537.06	4,379.88	157.18	28.866		
6,800.00	6,684.79	6,707.79	6,707.79	30.42	134.51	165.31	2,354.88	-2,591.14	4,553.90	4,394.36	159.53	28.545		
6,900.00	6,783.81	6,806.81	6,806.81	30.85	136.50	165.42	2,354.88	-2,591.14	4,567.41	4,405.51	161.90	28.212		
7,000.00	6,883.25	6,906.25	6,906.25	31.24	138.50	165.50	2,354.88	-2,591.14	4,577.56	4,413.31	164.26	27.869		
7,100.00	6,983.00	7,006.00	7,006.00	31.60	140.50	165.56	2,354.88	-2,591.14	4,584.36	4,417.74	166.61	27.515		
7,200.00	7,082.93	7,105.93	7,105.93	31.92	142.51	165.59	2,354.88	-2,591.14	4,587.77	4,418.81	168.96	27.152		
7,251.07	7,134.00	7,157.00	7,157.00	32.06	143.54	-43.11	2,354.88	-2,591.14	4,588.21	4,418.06	170.16	26.965		
7,300.00	7,182.93	7,205.93	7,205.93	32.19	144.52	-43.11	2,354.88	-2,591.14	4,588.21	4,416.92	171.29	26.786		
7,351.07	7,234.00	7,257.00	7,257.00	32.32	145.55	-43.11	2,354.88	-2,591.14	4,588.21	4,415.74	172.48	26.602		
7,400.00	7,282.87	7,305.87	7,305.87	32.47	146.53	137.14	2,354.88	-2,591.14	4,589.75	4,416.12	173.62	26.435		
7,450.00	7,332.44	7,355.44	7,355.44	32.67	147.53	136.87	2,354.88	-2,591.14	4,594.47	4,419.66	174.81	26.283		
7,500.00	7,381.26	7,404.26	7,404.26	32.90	148.51	136.42	2,354.88	-2,591.14	4,602.36	4,426.37	175.99	26.152		
7,550.00	7,428.96	7,451.96	7,451.96	33.18	149.47	135.76	2,354.88	-2,591.14	4,613.37	4,436.21	177.16	26.041		
7,600.00	7,475.17	7,501.83	7,498.17	33.48	150.47	134.89	2,354.88	-2,591.14	4,627.43	4,449.05	178.38	25.942		
7,650.00	7,519.55	7,542.55	7,542.55	33.82	151.29	133.78	2,354.88	-2,591.14	4,644.45	4,465.04	179.42	25.886		
7,700.00	7,561.76	7,584.76	7,584.76	34.20	152.14	132.42	2,354.88	-2,591.14	4,664.35	4,483.85	180.49	25.843		
7,750.00	7,601.47	7,624.47	7,624.47	34.60	152.94	130.77	2,354.88	-2,591.14	4,686.98	4,505.46	181.52	25.821		
7,800.00	7,638.39	7,661.39	7,661.39	35.04	153.68	128.79	2,354.88	-2,591.14	4,712.20	4,529.72	182.48	25.823		
7,850.00	7,672.23	7,704.77	7,695.23	35.50	154.55	126.45	2,354.88	-2,591.14	4,739.86	4,556.29	183.58	25.820 SF		
7,900.00	7,702.74	7,725.74	7,725.74	35.99	154.98	123.69	2,354.88	-2,591.14	4,769.77	4,585.56	184.21	25.893		
7,950.00	7,729.67	7,752.67	7,752.67	36.50	155.52	120.47	2,354.88	-2,591.14	4,801.73	4,616.77	184.96	25.960		
8,000.00	7,752.84	7,775.84	7,775.84	37.04	155.98	116.73	2,354.88	-2,591.14	4,835.52	4,649.89	185.63	26.050		
8,050.00	7,772.06	7,804.94	7,795.06	37.60	156.57	112.45	2,354.88	-2,591.14	4,870.90	4,684.50	186.40	26.131		
8,100.00	7,787.18	7,810.18	7,810.18	38.17	156.67	107.60	2,354.88	-2,591.14	4,907.61	4,720.93	186.68	26.288		
8,150.00	7,798.10	7,821.10	7,821.10	38.76	156.89	102.21	2,354.88	-2,591.14	4,945.39	4,758.33	187.07	26.437		
8,200.00	7,804.72	7,827.72	7,827.72	39.36	157.03	96.35	2,354.88	-2,591.14	4,983.97	4,796.62	187.35	26.603		
8,251.15	7,807.00	7,830.00	7,830.00	39.97	157.07	90.00	2,354.88	-2,591.14	5,023.93	4,836.40	187.53	26.790		
8,300.00	7,807.00	7,830.00	7,830.00	40.56	157.07	90.00	2,354.88	-2,591.14	5,062.35	4,874.69	187.66	26.976		
8,400.00	7,807.00	7,830.00	7,830.00	41.80	157.07	90.00	2,354.88	-2,591.14	5,141.53	4,953.61	187.93	27.359		
8,500.00	7,807.00	7,830.00	7,830.00	43.08	157.07	90.00	2,354.88	-2,591.14	5,221.43	5,033.23	188.20	27.744		
8,600.00	7,806.99	7,829.99	7,829.99	44.40	157.07	90.00	2,354.88	-2,591.14	5,302.01	5,113.53	188.48	28.130		
8,700.00	7,806.99	7,829.99	7,829.99	45.74	157.07	90.00	2,354.88	-2,591.14	5,383.25	5,194.48	188.76	28.519		
8,800.00	7,806.99	7,829.99	7,829.99	47.11	157.07	90.00	2,354.88	-2,591.14	5,465.10	5,276.05	189.05	28.908		
8,900.00	7,806.99	7,829.99	7,829.99	48.51	157.07	90.00	2,354.88	-2,591.14	5,547.55	5,358.21	189.34	29.300		
9,000.00	7,806.99	7,829.99	7,829.99	49.93	157.07	90.00	2,354.88	-2,591.14	5,630.57	5,440.94	189.63	29.692		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Sec 28-T1N-R68W - EXIST VERT DUMP UU 28-5 - Wellbore #1 - Design #1		Offset Site Error: 0.00 usft	
Survey Program: 0-INC														Offset Well Error: 0.00 usft		
Reference		Offset		Semi Major Axis		Distance								Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
9,100.00	7,806.99	7,829.99	7,829.99	51.38	157.07	90.00	2,354.88	-2,591.14	5,714.13	5,524.21	189.92	30.087				
9,200.00	7,806.99	7,829.99	7,829.99	52.84	157.07	90.00	2,354.88	-2,591.14	5,798.21	5,608.00	190.21	30.483				
9,300.00	7,806.98	7,829.98	7,829.98	54.32	157.07	90.00	2,354.88	-2,591.14	5,882.79	5,692.29	190.50	30.881				
9,400.00	7,806.98	7,829.98	7,829.98	55.82	157.07	90.00	2,354.88	-2,591.14	5,967.85	5,777.06	190.79	31.280				
9,500.00	7,806.98	7,829.98	7,829.98	57.34	157.07	90.00	2,354.88	-2,591.14	6,053.37	5,862.29	191.08	31.680				
9,600.00	7,806.98	7,829.98	7,829.98	58.87	157.07	90.00	2,354.88	-2,591.14	6,139.32	5,947.96	191.36	32.082				
9,700.00	7,806.98	7,829.98	7,829.98	60.41	157.07	90.00	2,354.88	-2,591.14	6,225.69	6,034.05	191.64	32.486				
9,800.00	7,806.98	7,829.98	7,829.98	61.96	157.07	90.00	2,354.88	-2,591.14	6,312.46	6,120.54	191.92	32.890				
9,900.00	7,806.97	7,829.97	7,829.97	63.53	157.07	90.00	2,354.88	-2,591.14	6,399.62	6,207.42	192.20	33.296				
10,000.00	7,806.97	7,829.97	7,829.97	65.10	157.07	90.00	2,354.88	-2,591.14	6,487.16	6,294.68	192.48	33.704				
10,100.00	7,806.97	7,829.97	7,829.97	66.69	157.07	90.00	2,354.88	-2,591.14	6,575.04	6,382.29	192.75	34.112				
10,200.00	7,806.97	7,829.97	7,829.97	68.29	157.07	90.00	2,354.88	-2,591.14	6,663.27	6,470.26	193.01	34.522				
10,300.00	7,806.97	7,829.97	7,829.97	69.89	157.07	90.00	2,354.88	-2,591.14	6,751.83	6,558.55	193.28	34.933				
10,400.00	7,806.97	7,829.97	7,829.97	71.50	157.07	90.00	2,354.88	-2,591.14	6,840.70	6,647.16	193.54	35.345				
10,500.00	7,806.97	7,829.97	7,829.97	73.12	157.07	90.00	2,354.88	-2,591.14	6,929.87	6,736.08	193.80	35.758				
10,600.00	7,806.96	7,829.96	7,829.96	74.75	157.07	90.00	2,354.88	-2,591.14	7,019.34	6,825.29	194.05	36.173				
10,700.00	7,806.96	7,829.96	7,829.96	76.38	157.07	90.00	2,354.88	-2,591.14	7,109.09	6,914.79	194.30	36.588				
10,800.00	7,806.96	7,829.96	7,829.96	78.02	157.07	90.00	2,354.88	-2,591.14	7,199.10	7,004.56	194.55	37.004				
10,900.00	7,806.96	7,829.96	7,829.96	79.66	157.07	90.00	2,354.88	-2,591.14	7,289.38	7,094.59	194.79	37.422				
11,000.00	7,806.96	7,829.96	7,829.96	81.31	157.07	90.00	2,354.88	-2,591.14	7,379.91	7,184.88	195.03	37.840				
11,100.00	7,806.96	7,829.96	7,829.96	82.97	157.07	90.00	2,354.88	-2,591.14	7,470.68	7,275.41	195.27	38.259				
11,200.00	7,806.95	7,829.95	7,829.95	84.63	157.07	90.00	2,354.88	-2,591.14	7,561.68	7,366.18	195.50	38.679				
11,300.00	7,806.95	7,829.95	7,829.95	86.29	157.07	90.00	2,354.88	-2,591.14	7,652.91	7,457.18	195.73	39.100				
11,400.00	7,806.95	7,829.95	7,829.95	87.96	157.07	90.00	2,354.88	-2,591.14	7,744.35	7,548.40	195.95	39.521				
11,500.00	7,806.95	7,829.95	7,829.95	89.64	157.07	90.00	2,354.88	-2,591.14	7,836.01	7,639.83	196.18	39.943				
11,600.00	7,806.95	7,829.95	7,829.95	91.31	157.07	90.00	2,354.88	-2,591.14	7,927.86	7,731.46	196.40	40.366				
11,700.00	7,806.95	7,829.95	7,829.95	92.99	157.07	90.00	2,354.88	-2,591.14	8,019.91	7,823.30	196.61	40.790				
11,800.00	7,806.95	7,829.95	7,829.95	94.68	157.07	90.00	2,354.88	-2,591.14	8,112.15	7,915.32	196.83	41.215				
11,900.00	7,806.94	7,829.94	7,829.94	96.36	157.07	90.00	2,354.88	-2,591.14	8,204.57	8,007.53	197.04	41.640				
12,000.00	7,806.94	7,829.94	7,829.94	98.05	157.07	90.00	2,354.88	-2,591.14	8,297.17	8,099.92	197.24	42.065				
12,100.00	7,806.94	7,829.94	7,829.94	99.74	157.07	90.00	2,354.88	-2,591.14	8,389.93	8,192.48	197.45	42.492				
12,200.00	7,806.94	7,829.94	7,829.94	101.44	157.07	90.00	2,354.88	-2,591.14	8,482.86	8,285.21	197.65	42.918				
12,300.00	7,806.94	7,829.94	7,829.94	103.14	157.07	90.00	2,354.88	-2,591.14	8,575.95	8,378.10	197.85	43.346				
12,400.00	7,806.94	7,829.94	7,829.94	104.84	157.07	90.00	2,354.88	-2,591.14	8,669.19	8,471.15	198.05	43.774				
12,500.00	7,806.93	7,829.93	7,829.93	106.54	157.07	90.00	2,354.88	-2,591.14	8,762.59	8,564.35	198.24	44.202				
12,600.00	7,806.93	7,829.93	7,829.93	108.25	157.07	90.00	2,354.88	-2,591.14	8,856.12	8,657.69	198.43	44.631				
12,700.00	7,806.93	7,829.93	7,829.93	109.95	157.07	90.00	2,354.88	-2,591.14	8,949.80	8,751.18	198.62	45.060				
12,800.00	7,806.93	7,829.93	7,829.93	111.66	157.07	90.00	2,354.88	-2,591.14	9,043.61	8,844.80	198.80	45.490				
12,900.00	7,806.93	7,829.93	7,829.93	113.37	157.07	90.00	2,354.88	-2,591.14	9,137.55	8,938.56	198.99	45.920				
13,000.00	7,806.93	7,829.93	7,829.93	115.09	157.07	90.00	2,354.88	-2,591.14	9,231.62	9,032.45	199.17	46.351				
13,100.00	7,806.93	7,829.93	7,829.93	116.80	157.07	90.00	2,354.88	-2,591.14	9,325.82	9,126.47	199.35	46.781				
13,200.00	7,806.92	7,829.92	7,829.92	118.52	157.07	90.00	2,354.88	-2,591.14	9,420.13	9,220.60	199.53	47.213				
13,300.00	7,806.92	7,829.92	7,829.92	120.24	157.07	90.00	2,354.88	-2,591.14	9,514.56	9,314.86	199.70	47.644				
13,400.00	7,806.92	7,829.92	7,829.92	121.96	157.07	90.00	2,354.88	-2,591.14	9,609.10	9,409.23	199.87	48.076				
13,500.00	7,806.92	7,829.92	7,829.92	123.68	157.07	90.00	2,354.88	-2,591.14	9,703.75	9,503.71	200.04	48.508				
13,600.00	7,806.92	7,829.92	7,829.92	125.40	157.07	90.00	2,354.88	-2,591.14	9,798.51	9,598.30	200.21	48.941				
13,700.00	7,806.92	7,829.92	7,829.92	127.12	157.07	90.00	2,354.88	-2,591.14	9,893.37	9,692.99	200.38	49.373				
13,800.00	7,806.91	7,829.91	7,829.91	128.85	157.07	90.00	2,354.88	-2,591.14	9,988.33	9,787.79	200.54	49.806				

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	91.34	-14.86	636.26	636.43					
100.00	100.00	103.00	103.00	0.13	1.25	91.34	-14.86	636.26	636.43	635.05	1.39	458.489		
200.00	200.00	203.00	203.00	0.49	3.54	91.34	-14.86	636.26	636.43	632.40	4.03	157.816		
300.00	300.00	303.00	303.00	0.85	5.62	91.34	-14.86	636.26	636.43	629.97	6.47	98.387		
400.00	400.00	403.00	403.00	1.21	7.66	91.34	-14.86	636.26	636.43	627.57	8.87	71.759		
500.00	500.00	503.00	503.00	1.57	9.69	91.34	-14.86	636.26	636.43	625.18	11.26	56.540		
600.00	600.00	603.00	603.00	1.93	11.71	91.34	-14.86	636.26	636.43	622.80	13.64	46.668		
700.00	700.00	703.00	703.00	2.29	13.73	91.34	-14.86	636.26	636.43	620.42	16.02	39.739		
800.00	800.00	803.00	803.00	2.64	15.75	91.34	-14.86	636.26	636.43	618.04	18.39	34.606		
900.00	900.00	903.00	903.00	3.00	17.76	91.34	-14.86	636.26	636.43	615.67	20.76	30.649		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	91.34	-14.86	636.26	636.43	613.30	23.14	27.506		
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	91.34	-14.86	636.26	636.43	610.92	25.51	24.948		
1,200.00	1,200.00	1,203.00	1,203.00	4.08	23.81	91.34	-14.86	636.26	636.43	608.55	27.88	22.825		
1,300.00	1,300.00	1,303.00	1,303.00	4.44	25.82	91.34	-14.86	636.26	636.43	606.18	30.25	21.036		
1,400.00	1,399.98	1,402.98	1,402.98	4.78	27.83	-60.11	-14.86	636.26	635.56	602.95	32.61	19.491		
1,500.00	1,499.84	1,502.84	1,502.84	5.11	29.84	-60.57	-14.86	636.26	632.97	598.02	34.95	18.113		
1,600.00	1,599.45	1,602.45	1,602.45	5.44	31.84	-61.33	-14.86	636.26	628.72	591.44	37.28	16.863		
1,700.00	1,698.70	1,701.70	1,701.70	5.79	33.84	-62.41	-14.86	636.26	622.94	583.32	39.62	15.721		
1,800.00	1,797.47	1,800.47	1,800.47	6.15	35.83	-63.82	-14.86	636.26	615.80	573.83	41.97	14.674		
1,900.00	1,895.62	1,901.38	1,898.62	6.53	37.86	-65.56	-14.86	636.26	607.52	563.15	44.37	13.692		
1,912.93	1,908.27	1,911.27	1,911.27	6.58	38.06	-65.81	-14.86	636.26	606.38	561.76	44.62	13.590		
2,000.00	1,993.35	2,003.65	1,996.35	6.93	39.92	-67.39	-14.86	636.26	598.89	552.07	46.82	12.792		
2,100.00	2,091.07	2,105.93	2,094.07	7.34	41.97	-69.25	-14.86	636.26	590.89	541.60	49.28	11.989		
2,200.00	2,188.79	2,208.21	2,191.79	7.77	44.03	-71.16	-14.86	636.26	583.55	531.79	51.76	11.273		
2,300.00	2,286.51	2,289.51	2,289.51	8.20	45.67	-73.12	-14.86	636.26	576.90	523.06	53.83	10.716		
2,400.00	2,384.23	2,387.23	2,387.23	8.65	47.63	-75.11	-14.86	636.26	570.96	514.72	56.25	10.151		
2,500.00	2,481.95	2,484.95	2,484.95	9.10	49.60	-77.15	-14.86	636.26	565.76	507.09	58.67	9.644		
2,600.00	2,579.67	2,582.67	2,582.67	9.56	51.56	-79.21	-14.86	636.26	561.31	500.22	61.10	9.187		
2,700.00	2,677.39	2,680.39	2,680.39	10.02	53.53	-81.31	-14.86	636.26	557.64	494.11	63.53	8.777		
2,800.00	2,775.11	2,778.11	2,778.11	10.49	55.50	-83.43	-14.86	636.26	554.75	488.78	65.97	8.409		
2,900.00	2,872.83	2,875.83	2,875.83	10.96	57.46	-85.57	-14.86	636.26	552.67	484.25	68.42	8.078		
3,000.00	2,970.55	2,973.55	2,973.55	11.44	59.43	-87.72	-14.86	636.26	551.40	480.53	70.86	7.781		
3,100.00	3,068.27	3,071.27	3,071.27	11.92	61.39	-89.87	-14.86	636.26	550.94	477.63	73.31	7.515		
3,105.89	3,074.03	3,077.03	3,077.03	11.95	61.51	-90.00	-14.86	636.26	550.94	477.48	73.45	7.500 CC		
3,200.00	3,165.99	3,168.99	3,168.99	12.40	63.36	-92.03	-14.86	636.26	551.30	475.54	75.76	7.277		
3,300.00	3,263.71	3,266.71	3,266.71	12.88	65.32	-94.18	-14.86	636.26	552.48	474.28	78.20	7.065		
3,400.00	3,361.43	3,364.43	3,364.43	13.37	67.29	-96.32	-14.86	636.26	554.47	473.83	80.64	6.876 ES		
3,500.00	3,459.15	3,462.15	3,462.15	13.86	69.25	-98.44	-14.86	636.26	557.26	474.18	83.08	6.708		
3,600.00	3,556.87	3,559.87	3,559.87	14.35	71.22	-100.54	-14.86	636.26	560.84	475.33	85.51	6.559		
3,700.00	3,654.59	3,657.59	3,657.59	14.84	73.18	-102.61	-14.86	636.26	565.19	477.26	87.93	6.427		
3,800.00	3,752.31	3,755.31	3,755.31	15.34	75.15	-104.65	-14.86	636.26	570.31	479.96	90.35	6.312		
3,900.00	3,850.03	3,853.03	3,853.03	15.83	77.11	-106.65	-14.86	636.26	576.16	483.39	92.77	6.211		
4,000.00	3,947.75	3,950.75	3,950.75	16.33	79.08	-108.61	-14.86	636.26	582.73	487.56	95.17	6.123		
4,100.00	4,045.47	4,048.47	4,048.47	16.83	81.05	-110.53	-14.86	636.26	589.99	492.42	97.57	6.047		
4,200.00	4,143.19	4,146.19	4,146.19	17.32	83.01	-112.39	-14.86	636.26	597.91	497.95	99.96	5.981		
4,300.00	4,240.91	4,243.91	4,243.91	17.82	84.98	-114.21	-14.86	636.26	606.48	504.13	102.35	5.926		
4,400.00	4,338.63	4,341.63	4,341.63	18.32	86.94	-115.98	-14.86	636.26	615.66	510.93	104.73	5.879		
4,500.00	4,436.35	4,439.35	4,439.35	18.82	88.91	-117.70	-14.86	636.26	625.42	518.32	107.10	5.840		
4,600.00	4,534.07	4,537.07	4,537.07	19.33	90.87	-119.37	-14.86	636.26	635.75	526.28	109.47	5.808		
4,700.00	4,631.79	4,634.79	4,634.79	19.83	92.84	-120.98	-14.86	636.26	646.60	534.78	111.83	5.782		
4,800.00	4,729.51	4,732.51	4,732.51	20.33	94.80	-122.54	-14.86	636.26	657.97	543.79	114.18	5.763		
4,900.00	4,827.23	4,830.23	4,830.23	20.83	96.77	-124.05	-14.86	636.26	669.81	553.28	116.53	5.748		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	4,924.95	4,927.95	4,927.95	21.34	98.73	-125.50	-14.86	636.26	682.11	563.23	118.88	5.738	
5,100.00	5,022.67	5,025.67	5,025.67	21.84	100.70	-126.91	-14.86	636.26	694.84	573.62	121.22	5.732	
5,200.00	5,120.39	5,123.39	5,123.39	22.35	102.66	-128.26	-14.86	636.26	707.98	584.42	123.55	5.730	
5,300.00	5,218.11	5,221.11	5,221.11	22.85	104.63	-129.57	-14.86	636.26	721.50	595.61	125.89	5.731	
5,400.00	5,315.83	5,318.83	5,318.83	23.36	106.59	-130.83	-14.86	636.26	735.39	607.17	128.22	5.735	
5,500.00	5,413.55	5,416.55	5,416.55	23.86	108.56	-132.04	-14.86	636.26	749.62	619.07	130.55	5.742	
5,600.00	5,511.27	5,514.27	5,514.27	24.37	110.52	-133.21	-14.86	636.26	764.18	631.30	132.88	5.751	
5,700.00	5,608.99	5,611.99	5,611.99	24.88	112.49	-134.33	-14.86	636.26	779.04	643.84	135.20	5.762	
5,800.00	5,706.71	5,709.71	5,709.71	25.38	114.45	-135.42	-14.86	636.26	794.20	656.67	137.52	5.775	
5,900.00	5,804.43	5,807.43	5,807.43	25.89	116.42	-136.46	-14.86	636.26	809.62	669.78	139.85	5.789	
6,000.00	5,902.15	5,905.15	5,905.15	26.40	118.38	-137.46	-14.86	636.26	825.31	683.14	142.17	5.805	
6,100.00	5,999.87	6,002.87	6,002.87	26.91	120.35	-138.43	-14.86	636.26	841.24	696.75	144.49	5.822	
6,200.00	6,097.59	6,100.59	6,100.59	27.42	122.31	-139.36	-14.86	636.26	857.40	710.59	146.81	5.840	
6,300.00	6,195.30	6,201.70	6,198.30	27.92	124.35	-140.26	-14.86	636.26	873.77	724.58	149.19	5.857	
6,400.00	6,293.02	6,303.98	6,296.02	28.43	126.41	-141.13	-14.86	636.26	890.35	738.75	151.60	5.873	
6,500.00	6,390.74	6,406.26	6,393.74	28.94	128.46	-141.96	-14.86	636.26	907.13	753.11	154.01	5.890	
6,600.00	6,488.46	6,508.54	6,491.46	29.45	130.52	-142.77	-14.86	636.26	924.08	767.66	156.42	5.908	
6,638.14	6,525.73	6,528.73	6,528.73	29.64	130.92	-143.07	-14.86	636.26	930.60	773.64	156.96	5.929	
6,700.00	6,586.32	6,589.32	6,589.32	29.95	132.14	-143.64	-14.86	636.26	940.69	782.29	158.40	5.939	
6,800.00	6,684.79	6,687.79	6,687.79	30.42	134.12	-144.42	-14.86	636.26	954.84	794.12	160.72	5.941	
6,900.00	6,783.81	6,786.81	6,786.81	30.85	136.11	-145.04	-14.86	636.26	966.27	803.22	163.05	5.926	
7,000.00	6,883.25	6,886.25	6,886.25	31.24	138.11	-145.49	-14.86	636.26	974.91	809.52	165.39	5.895	
7,100.00	6,983.00	6,986.00	6,986.00	31.60	140.12	-145.78	-14.86	636.26	980.70	812.98	167.72	5.847	
7,200.00	7,082.93	7,085.93	7,085.93	31.92	142.13	-145.93	-14.86	636.26	983.62	813.57	170.05	5.784	
7,251.07	7,134.00	7,137.00	7,137.00	32.06	143.16	5.34	-14.86	636.26	984.00	812.77	171.23	5.747	
7,300.00	7,182.93	7,185.93	7,185.93	32.19	144.14	5.34	-14.86	636.26	984.00	811.64	172.36	5.709	
7,351.07	7,234.00	7,237.00	7,237.00	32.32	145.17	5.34	-14.86	636.26	984.00	810.46	173.54	5.670	
7,400.00	7,282.87	7,285.87	7,285.87	32.47	146.15	-174.31	-14.86	636.26	986.08	811.40	174.68	5.645	
7,450.00	7,332.44	7,335.44	7,335.44	32.67	147.15	-174.28	-14.86	636.26	992.48	816.63	175.85	5.644 SF	
7,500.00	7,381.26	7,384.26	7,384.26	32.90	148.13	-174.23	-14.86	636.26	1,003.15	826.15	177.00	5.667	
7,550.00	7,428.96	7,431.96	7,431.96	33.18	149.09	-174.16	-14.86	636.26	1,018.02	839.88	178.14	5.715	
7,600.00	7,475.17	7,478.17	7,478.17	33.48	150.02	-174.06	-14.86	636.26	1,036.98	857.73	179.25	5.785	
7,650.00	7,519.55	7,522.55	7,522.55	33.82	150.91	-173.92	-14.86	636.26	1,059.87	879.55	180.32	5.878	
7,700.00	7,561.76	7,564.76	7,564.76	34.20	151.76	-173.73	-14.86	636.26	1,086.54	905.20	181.34	5.992	
7,750.00	7,601.47	7,604.47	7,604.47	34.60	152.56	-173.48	-14.86	636.26	1,116.77	934.47	182.31	6.126	
7,800.00	7,638.39	7,641.39	7,641.39	35.04	153.30	-173.15	-14.86	636.26	1,150.35	967.14	183.20	6.279	
7,850.00	7,672.23	7,675.23	7,675.23	35.50	153.98	-172.71	-14.86	636.26	1,187.00	1,002.98	184.03	6.450	
7,900.00	7,702.74	7,705.74	7,705.74	35.99	154.59	-172.11	-14.86	636.26	1,226.47	1,041.70	184.77	6.638	
7,950.00	7,729.67	7,732.67	7,732.67	36.50	155.14	-171.26	-14.86	636.26	1,268.45	1,083.02	185.43	6.841	
8,000.00	7,752.84	7,755.84	7,755.84	37.04	155.60	-170.05	-14.86	636.26	1,312.61	1,126.62	185.99	7.057	
8,050.00	7,772.06	7,775.06	7,775.06	37.60	155.99	-168.18	-14.86	636.26	1,358.63	1,172.17	186.46	7.286	
8,100.00	7,787.18	7,809.82	7,790.18	38.17	156.69	-165.07	-14.86	636.26	1,406.15	1,218.93	187.23	7.510	
8,150.00	7,798.10	7,801.10	7,801.10	38.76	156.51	-159.07	-14.86	636.26	1,454.82	1,267.72	187.10	7.776	
8,200.00	7,804.72	7,807.72	7,807.72	39.36	156.65	-143.92	-14.86	636.26	1,504.25	1,316.99	187.26	8.033	
8,251.15	7,807.00	7,810.00	7,810.00	39.97	156.69	-89.99	-14.86	636.26	1,555.23	1,367.90	187.33	8.302	
8,300.00	7,807.00	7,810.00	7,810.00	40.56	156.69	-89.99	-14.86	636.26	1,603.99	1,416.65	187.34	8.562	
8,400.00	7,807.00	7,810.00	7,810.00	41.80	156.69	-89.98	-14.86	636.26	1,703.81	1,516.46	187.36	9.094	
8,500.00	7,807.00	7,810.00	7,810.00	43.08	156.69	-89.98	-14.86	636.26	1,803.66	1,616.28	187.38	9.626	
8,600.00	7,806.99	7,809.99	7,809.99	44.40	156.69	-89.98	-14.86	636.26	1,903.52	1,716.12	187.40	10.158	
8,700.00	7,806.99	7,809.99	7,809.99	45.74	156.69	-89.98	-14.86	636.26	2,003.39	1,815.97	187.42	10.689	
8,800.00	7,806.99	7,809.99	7,809.99	47.11	156.69	-89.98	-14.86	636.26	2,103.28	1,915.84	187.44	11.221	
8,900.00	7,806.99	7,809.99	7,809.99	48.51	156.69	-89.98	-14.86	636.26	2,203.18	2,015.71	187.46	11.753	

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT MEIKLE 2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	7,809.99	7,809.99	49.93	156.69	-89.98	-14.86	636.26	2,303.09	2,115.60	187.49	12.284		
9,100.00	7,806.99	7,809.99	7,809.99	51.38	156.69	-89.98	-14.86	636.26	2,403.00	2,215.49	187.51	12.815		
9,200.00	7,806.99	7,809.99	7,809.99	52.84	156.69	-89.98	-14.86	636.26	2,502.92	2,315.38	187.54	13.346		
9,300.00	7,806.98	7,809.98	7,809.98	54.32	156.69	-89.98	-14.86	636.26	2,602.85	2,415.29	187.56	13.877		
9,400.00	7,806.98	7,809.98	7,809.98	55.82	156.69	-89.98	-14.86	636.26	2,702.78	2,515.19	187.59	14.408		
9,500.00	7,806.98	7,809.98	7,809.98	57.34	156.69	-89.97	-14.86	636.26	2,802.72	2,615.10	187.61	14.939		
9,600.00	7,806.98	7,809.98	7,809.98	58.87	156.69	-89.97	-14.86	636.26	2,902.66	2,715.02	187.64	15.469		
9,700.00	7,806.98	7,809.98	7,809.98	60.41	156.69	-89.97	-14.86	636.26	3,002.60	2,814.93	187.67	15.999		
9,800.00	7,806.98	7,809.98	7,809.98	61.96	156.69	-89.97	-14.86	636.26	3,102.55	2,914.85	187.70	16.529		
9,900.00	7,806.97	7,809.97	7,809.97	63.53	156.69	-89.97	-14.86	636.26	3,202.51	3,014.78	187.73	17.059		
10,000.00	7,806.97	7,809.97	7,809.97	65.10	156.69	-89.97	-14.86	636.26	3,302.46	3,114.70	187.76	17.589		
10,100.00	7,806.97	7,809.97	7,809.97	66.69	156.69	-89.97	-14.86	636.26	3,402.42	3,214.63	187.79	18.118		
10,200.00	7,806.97	7,809.97	7,809.97	68.29	156.69	-89.97	-14.86	636.26	3,502.38	3,314.56	187.82	18.647		
10,300.00	7,806.97	7,809.97	7,809.97	69.89	156.69	-89.97	-14.86	636.26	3,602.34	3,414.48	187.86	19.176		
10,400.00	7,806.97	7,809.97	7,809.97	71.50	156.69	-89.97	-14.86	636.26	3,702.31	3,514.42	187.89	19.705		
10,500.00	7,806.97	7,809.97	7,809.97	73.12	156.69	-89.97	-14.86	636.26	3,802.27	3,614.35	187.92	20.233		
10,600.00	7,806.96	7,809.96	7,809.96	74.75	156.69	-89.96	-14.86	636.26	3,902.24	3,714.28	187.96	20.761		
10,700.00	7,806.96	7,809.96	7,809.96	76.38	156.69	-89.96	-14.86	636.26	4,002.21	3,814.21	188.00	21.289		
10,800.00	7,806.96	7,809.96	7,809.96	78.02	156.69	-89.96	-14.86	636.26	4,102.18	3,914.15	188.03	21.816		
10,900.00	7,806.96	7,809.96	7,809.96	79.66	156.69	-89.96	-14.86	636.26	4,202.15	4,014.08	188.07	22.344		
11,000.00	7,806.96	7,809.96	7,809.96	81.31	156.69	-89.96	-14.86	636.26	4,302.13	4,114.02	188.11	22.871		
11,100.00	7,806.96	7,809.96	7,809.96	82.97	156.69	-89.96	-14.86	636.26	4,402.10	4,213.95	188.15	23.397		
11,200.00	7,806.95	7,809.95	7,809.95	84.63	156.69	-89.96	-14.86	636.26	4,502.08	4,313.89	188.19	23.923		
11,300.00	7,806.95	7,809.95	7,809.95	86.29	156.69	-89.96	-14.86	636.26	4,602.05	4,413.83	188.23	24.449		
11,400.00	7,806.95	7,809.95	7,809.95	87.96	156.69	-89.96	-14.86	636.26	4,702.03	4,513.76	188.27	24.975		
11,500.00	7,806.95	7,809.95	7,809.95	89.64	156.69	-89.96	-14.86	636.26	4,802.01	4,613.70	188.31	25.500		
11,600.00	7,806.95	7,809.95	7,809.95	91.31	156.69	-89.96	-14.86	636.26	4,901.99	4,713.64	188.35	26.025		
11,700.00	7,806.95	7,809.95	7,809.95	92.99	156.69	-89.95	-14.86	636.26	5,001.97	4,813.57	188.40	26.550		
11,800.00	7,806.95	7,809.95	7,809.95	94.68	156.69	-89.95	-14.86	636.26	5,101.95	4,913.51	188.44	27.074		
11,900.00	7,806.94	7,809.94	7,809.94	96.36	156.69	-89.95	-14.86	636.26	5,201.93	5,013.45	188.49	27.598		
12,000.00	7,806.94	7,809.94	7,809.94	98.05	156.69	-89.95	-14.86	636.26	5,301.92	5,113.38	188.53	28.122		
12,100.00	7,806.94	7,809.94	7,809.94	99.74	156.69	-89.95	-14.86	636.26	5,401.90	5,213.32	188.58	28.645		
12,200.00	7,806.94	7,809.94	7,809.94	101.44	156.69	-89.95	-14.86	636.26	5,501.89	5,313.26	188.63	29.168		
12,300.00	7,806.94	7,809.94	7,809.94	103.14	156.69	-89.95	-14.86	636.26	5,601.87	5,413.19	188.68	29.690		
12,400.00	7,806.94	7,809.94	7,809.94	104.84	156.69	-89.95	-14.86	636.26	5,701.85	5,513.13	188.73	30.212		
12,500.00	7,806.93	7,809.93	7,809.93	106.54	156.69	-89.95	-14.86	636.26	5,801.84	5,613.06	188.78	30.734		
12,600.00	7,806.93	7,809.93	7,809.93	108.25	156.69	-89.95	-14.86	636.26	5,901.83	5,713.00	188.83	31.255		
12,700.00	7,806.93	7,809.93	7,809.93	109.95	156.69	-89.95	-14.86	636.26	6,001.81	5,812.94	188.88	31.776		
12,800.00	7,806.93	7,809.93	7,809.93	111.66	156.69	-89.94	-14.86	636.26	6,101.80	5,912.87	188.93	32.297		
12,900.00	7,806.93	7,809.93	7,809.93	113.37	156.69	-89.94	-14.86	636.26	6,201.79	6,012.81	188.98	32.817		
13,000.00	7,806.93	7,809.93	7,809.93	115.09	156.69	-89.94	-14.86	636.26	6,301.78	6,112.74	189.04	33.336		
13,100.00	7,806.93	7,809.93	7,809.93	116.80	156.69	-89.94	-14.86	636.26	6,401.76	6,212.67	189.09	33.856		
13,200.00	7,806.92	7,809.92	7,809.92	118.52	156.69	-89.94	-14.86	636.26	6,501.75	6,312.61	189.15	34.374		
13,300.00	7,806.92	7,809.92	7,809.92	120.24	156.69	-89.94	-14.86	636.26	6,601.74	6,412.54	189.20	34.893		
13,400.00	7,806.92	7,809.92	7,809.92	121.96	156.69	-89.94	-14.86	636.26	6,701.73	6,512.47	189.26	35.411		
13,500.00	7,806.92	7,809.92	7,809.92	123.68	156.69	-89.94	-14.86	636.26	6,801.72	6,612.41	189.31	35.928		
13,600.00	7,806.92	7,809.92	7,809.92	125.40	156.69	-89.94	-14.86	636.26	6,901.71	6,712.34	189.37	36.445		
13,700.00	7,806.92	7,809.92	7,809.92	127.12	156.69	-89.94	-14.86	636.26	7,001.70	6,812.27	189.43	36.962		
13,800.00	7,806.91	7,809.91	7,809.91	128.85	156.69	-89.94	-14.86	636.26	7,101.69	6,912.20	189.49	37.478		
13,900.00	7,806.91	7,809.91	7,809.91	130.58	156.69	-89.93	-14.86	636.26	7,201.68	7,012.13	189.55	37.994		
14,000.00	7,806.91	7,809.91	7,809.91	132.30	156.69	-89.93	-14.86	636.26	7,301.67	7,112.06	189.61	38.509		
14,100.00	7,806.91	7,809.91	7,809.91	134.03	156.69	-89.93	-14.86	636.26	7,401.66	7,211.99	189.67	39.023		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	7,809.91	7,809.91	135.76	156.69	-89.93	-14.86	636.26	7,501.65	7,311.92	189.73	39.538	
14,300.00	7,806.91	7,809.91	7,809.91	137.50	156.69	-89.93	-14.86	636.26	7,601.65	7,411.85	189.80	40.051	
14,400.00	7,806.91	7,809.91	7,809.91	139.23	156.69	-89.93	-14.86	636.26	7,701.64	7,511.78	189.86	40.565	
14,500.00	7,806.90	7,809.90	7,809.90	140.96	156.69	-89.93	-14.86	636.26	7,801.63	7,611.71	189.92	41.078	
14,600.00	7,806.90	7,809.90	7,809.90	142.70	156.69	-89.93	-14.86	636.26	7,901.62	7,711.63	189.99	41.590	
14,700.00	7,806.90	7,809.90	7,809.90	144.43	156.69	-89.93	-14.86	636.26	8,001.62	7,811.56	190.05	42.102	
14,800.00	7,806.90	7,809.90	7,809.90	146.17	156.69	-89.93	-14.86	636.26	8,101.61	7,911.49	190.12	42.613	
14,900.00	7,806.90	7,809.90	7,809.90	147.91	156.69	-89.93	-14.86	636.26	8,201.60	8,011.41	190.19	43.124	
15,000.00	7,806.90	7,809.90	7,809.90	149.64	156.69	-89.92	-14.86	636.26	8,301.59	8,111.34	190.25	43.634	
15,100.00	7,806.89	7,809.89	7,809.89	151.38	156.69	-89.92	-14.86	636.26	8,401.59	8,211.26	190.32	44.144	
15,200.00	7,806.89	7,809.89	7,809.89	153.12	156.69	-89.92	-14.86	636.26	8,501.58	8,311.19	190.39	44.653	
15,300.00	7,806.89	7,809.89	7,809.89	154.86	156.69	-89.92	-14.86	636.26	8,601.57	8,411.11	190.46	45.162	
15,400.00	7,806.89	7,809.89	7,809.89	156.60	156.69	-89.92	-14.86	636.26	8,701.57	8,511.04	190.53	45.670	
15,500.00	7,806.89	7,809.89	7,809.89	158.35	156.69	-89.92	-14.86	636.26	8,801.56	8,610.96	190.60	46.178	
15,600.00	7,806.89	7,809.89	7,809.89	160.09	156.69	-89.92	-14.86	636.26	8,901.56	8,710.88	190.67	46.685	
15,700.00	7,806.89	7,809.89	7,809.89	161.83	156.69	-89.92	-14.86	636.26	9,001.55	8,810.80	190.74	47.192	
15,800.00	7,806.88	7,809.88	7,809.88	163.57	156.69	-89.92	-14.86	636.26	9,101.54	8,910.73	190.82	47.698	
15,900.00	7,806.88	7,809.88	7,809.88	165.32	156.69	-89.92	-14.86	636.26	9,201.54	9,010.65	190.89	48.203	
16,000.00	7,806.88	7,809.88	7,809.88	167.06	156.69	-89.92	-14.86	636.26	9,301.53	9,110.57	190.96	48.708	
16,100.00	7,806.88	7,809.88	7,809.88	168.81	156.69	-89.91	-14.86	636.26	9,401.53	9,210.49	191.04	49.213	
16,200.00	7,806.88	7,809.88	7,809.88	170.56	156.69	-89.91	-14.86	636.26	9,501.52	9,310.41	191.11	49.717	
16,300.00	7,806.88	7,809.88	7,809.88	172.30	156.69	-89.91	-14.86	636.26	9,601.52	9,410.33	191.19	50.220	
16,400.00	7,806.87	7,809.87	7,809.87	174.05	156.69	-89.91	-14.86	636.26	9,701.51	9,510.25	191.27	50.723	
16,500.00	7,806.87	7,809.87	7,809.87	175.80	156.69	-89.91	-14.86	636.26	9,801.51	9,610.16	191.34	51.225	
16,600.00	7,806.87	7,809.87	7,809.87	177.55	156.69	-89.91	-14.86	636.26	9,901.50	9,710.08	191.42	51.727	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
0.00	0.00	0.00	0.00	0.00	0.00	147.11	-433.78	280.56	516.89					
100.00	100.00	83.00	83.00	0.13	0.97	147.11	-433.78	280.56	516.61	515.50	1.11	466.735		
200.00	200.00	183.00	183.00	0.49	3.08	147.11	-433.78	280.56	516.61	513.04	3.57	144.715		
300.00	300.00	283.00	283.00	0.85	5.19	147.11	-433.78	280.56	516.61	510.56	6.04	85.475		
400.00	400.00	383.00	383.00	1.21	7.24	147.11	-433.78	280.56	516.61	508.16	8.45	61.130		
500.00	500.00	483.00	483.00	1.57	9.27	147.11	-433.78	280.56	516.61	505.77	10.84	47.654		
600.00	600.00	583.00	583.00	1.93	11.30	147.11	-433.78	280.56	516.61	503.38	13.22	39.069		
700.00	700.00	683.00	683.00	2.29	13.32	147.11	-433.78	280.56	516.61	501.00	15.60	33.113		
800.00	800.00	783.00	783.00	2.64	15.33	147.11	-433.78	280.56	516.61	498.63	17.98	28.736		
900.00	900.00	883.00	883.00	3.00	17.35	147.11	-433.78	280.56	516.61	496.25	20.35	25.384		
1,000.00	1,000.00	983.00	983.00	3.36	19.36	147.11	-433.78	280.56	516.61	493.88	22.73	22.733		
1,100.00	1,100.00	1,083.00	1,083.00	3.72	21.38	147.11	-433.78	280.56	516.61	491.51	25.10	20.584		
1,200.00	1,200.00	1,183.00	1,183.00	4.08	23.39	147.11	-433.78	280.56	516.61	489.14	27.47	18.806		
1,300.00	1,300.00	1,283.00	1,283.00	4.44	25.41	147.11	-433.78	280.56	516.61	486.76	29.84	17.312		
1,400.00	1,399.98	1,382.98	1,382.98	4.78	27.42	-4.21	-433.78	280.56	514.87	482.67	32.20	15.992		
1,500.00	1,499.84	1,482.84	1,482.84	5.11	29.43	-4.26	-433.78	280.56	509.65	475.11	34.53	14.757		
1,600.00	1,599.45	1,582.45	1,582.45	5.44	31.43	-4.35	-433.78	280.56	500.96	464.08	36.87	13.586		
1,700.00	1,698.70	1,681.70	1,681.70	5.79	33.43	-4.47	-433.78	280.56	488.80	449.60	39.21	12.468		
1,800.00	1,797.47	1,780.47	1,780.47	6.15	35.42	-4.65	-433.78	280.56	473.21	431.68	41.53	11.394		
1,900.00	1,895.62	1,878.62	1,878.62	6.53	37.39	-4.87	-433.78	280.56	454.19	410.34	43.85	10.358		
1,912.93	1,908.27	1,908.73	1,891.27	6.58	38.00	-4.91	-433.78	280.56	451.49	406.98	44.50	10.145		
2,000.00	1,993.35	1,976.35	1,976.35	6.93	39.36	-5.12	-433.78	280.56	433.07	386.91	46.16	9.382		
2,100.00	2,091.07	2,074.07	2,074.07	7.34	41.32	-5.38	-433.78	280.56	411.92	363.45	48.47	8.499		
2,200.00	2,188.79	2,171.79	2,171.79	7.77	43.29	-5.67	-433.78	280.56	390.78	340.00	50.78	7.696		
2,300.00	2,286.51	2,269.51	2,269.51	8.20	45.26	-6.00	-433.78	280.56	369.65	316.56	53.10	6.962		
2,400.00	2,384.23	2,367.23	2,367.23	8.65	47.22	-6.36	-433.78	280.56	348.54	293.12	55.42	6.289		
2,500.00	2,481.95	2,464.95	2,464.95	9.10	49.19	-6.77	-433.78	280.56	327.44	269.70	57.74	5.671		
2,600.00	2,579.67	2,562.67	2,562.67	9.56	51.15	-7.24	-433.78	280.56	306.36	246.29	60.07	5.100		
2,700.00	2,677.39	2,660.39	2,660.39	10.02	53.12	-7.78	-433.78	280.56	285.30	222.91	62.39	4.573		
2,800.00	2,775.11	2,758.11	2,758.11	10.49	55.08	-8.40	-433.78	280.56	264.27	199.54	64.73	4.083		
2,900.00	2,872.83	2,855.83	2,855.83	10.96	57.05	-9.13	-433.78	280.56	243.27	176.21	67.06	3.628		
3,000.00	2,970.55	2,953.55	2,953.55	11.44	59.01	-10.00	-433.78	280.56	222.32	152.92	69.40	3.204		
3,100.00	3,068.27	3,051.27	3,051.27	11.92	60.98	-11.05	-433.78	280.56	201.43	129.69	71.74	2.808		
3,200.00	3,165.99	3,148.99	3,148.99	12.40	62.94	-12.34	-433.78	280.56	180.62	106.53	74.09	2.438		
3,300.00	3,263.71	3,246.71	3,246.71	12.88	64.91	-13.96	-433.78	280.56	159.91	83.47	76.45	2.092		
3,400.00	3,361.43	3,344.43	3,344.43	13.37	66.88	-16.06	-433.78	280.56	139.37	60.56	78.82	1.768		
3,500.00	3,459.15	3,442.15	3,442.15	13.86	68.84	-18.88	-433.78	280.56	119.07	37.86	81.21	1.466 Level 3		
3,600.00	3,556.87	3,539.87	3,539.87	14.35	70.81	-22.85	-433.78	280.56	99.16	15.52	83.64	1.186 Level 2		
3,700.00	3,654.59	3,637.59	3,637.59	14.84	72.77	-28.73	-433.78	280.56	79.94	-6.22	86.16	0.928 Level 1		
3,800.00	3,752.31	3,735.31	3,735.31	15.34	74.74	-38.12	-433.78	280.56	62.04	-26.79	88.83	0.698 Level 1		
3,900.00	3,850.03	3,833.03	3,833.03	15.83	76.70	-54.07	-433.78	280.56	47.00	-44.81	91.81	0.512 Level 1		
4,000.00	3,947.75	3,930.75	3,930.75	16.33	78.67	-80.06	-433.78	280.56	38.35	-56.58	94.93	0.404 Level 1		
4,031.87	3,978.89	3,961.89	3,961.89	16.49	79.29	-90.00	-433.78	280.56	37.75	-58.03	95.78	0.394 Level 1, CC, ES, SF		
4,100.00	4,045.47	4,028.47	4,028.47	16.83	80.63	-110.53	-433.78	280.56	40.43	-56.73	97.16	0.416 Level 1		
4,200.00	4,143.19	4,126.19	4,126.19	17.32	82.60	-132.74	-433.78	280.56	51.96	-46.80	98.76	0.526 Level 1		
4,300.00	4,240.91	4,223.91	4,223.91	17.82	84.56	-145.84	-433.78	280.56	68.31	-32.26	100.57	0.679 Level 1		
4,400.00	4,338.63	4,321.63	4,321.63	18.32	86.53	-153.70	-433.78	280.56	86.80	-15.81	102.61	0.846 Level 1		
4,500.00	4,436.35	4,419.35	4,419.35	18.82	88.49	-158.76	-433.78	280.56	106.32	1.54	104.78	1.015 Level 2		
4,600.00	4,534.07	4,517.07	4,517.07	19.33	90.46	-162.24	-433.78	280.56	126.40	19.38	107.02	1.181 Level 2		
4,700.00	4,631.79	4,614.79	4,614.79	19.83	92.42	-164.77	-433.78	280.56	146.80	37.50	109.30	1.343 Level 3		
4,800.00	4,729.51	4,712.51	4,712.51	20.33	94.39	-166.67	-433.78	280.56	167.41	55.81	111.59	1.500		
4,900.00	4,827.23	4,810.23	4,810.23	20.83	96.35	-168.16	-433.78	280.56	188.15	74.25	113.90	1.652		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	4,924.95	4,907.95	4,907.95	21.34	98.32	-169.36	-433.78	280.56	209.00	92.78	116.22	1.798	
5,100.00	5,022.67	5,005.67	5,005.67	21.84	100.29	-170.33	-433.78	280.56	229.91	111.37	118.54	1.939	
5,200.00	5,120.39	5,103.39	5,103.39	22.35	102.25	-171.15	-433.78	280.56	250.88	130.01	120.87	2.076	
5,300.00	5,218.11	5,201.11	5,201.11	22.85	104.22	-171.84	-433.78	280.56	271.89	148.69	123.20	2.207	
5,400.00	5,315.83	5,301.17	5,298.83	23.36	106.23	-172.42	-433.78	280.56	292.93	167.35	125.58	2.333	
5,500.00	5,413.55	5,403.45	5,396.55	23.86	108.29	-172.94	-433.78	280.56	314.00	185.99	128.01	2.453	
5,600.00	5,511.27	5,505.73	5,494.27	24.37	110.34	-173.38	-433.78	280.56	335.09	204.65	130.44	2.569	
5,700.00	5,608.99	5,608.01	5,591.99	24.88	112.40	-173.78	-433.78	280.56	356.19	223.32	132.87	2.681	
5,800.00	5,706.71	5,689.71	5,689.71	25.38	114.04	-174.12	-433.78	280.56	377.31	242.43	134.88	2.797	
5,900.00	5,804.43	5,787.43	5,787.43	25.89	116.01	-174.44	-433.78	280.56	398.44	261.22	137.22	2.904	
6,000.00	5,902.15	5,885.15	5,885.15	26.40	117.97	-174.72	-433.78	280.56	419.59	280.02	139.56	3.006	
6,100.00	5,999.87	5,982.87	5,982.87	26.91	119.94	-174.97	-433.78	280.56	440.74	298.83	141.90	3.106	
6,200.00	6,097.59	6,080.59	6,080.59	27.42	121.90	-175.20	-433.78	280.56	461.89	317.65	144.25	3.202	
6,300.00	6,195.30	6,178.30	6,178.30	27.92	123.87	-175.41	-433.78	280.56	483.06	336.47	146.59	3.295	
6,400.00	6,293.02	6,276.02	6,276.02	28.43	125.83	-175.61	-433.78	280.56	504.23	355.30	148.93	3.386	
6,500.00	6,390.74	6,373.74	6,373.74	28.94	127.80	-175.78	-433.78	280.56	525.40	374.13	151.27	3.473	
6,600.00	6,488.46	6,471.46	6,471.46	29.45	129.76	-175.95	-433.78	280.56	546.58	392.97	153.62	3.558	
6,638.14	6,525.73	6,508.73	6,508.73	29.64	130.51	-176.01	-433.78	280.56	554.66	400.15	154.51	3.590	
6,700.00	6,586.32	6,569.32	6,569.32	29.95	131.73	-176.11	-433.78	280.56	567.12	411.16	155.96	3.636	
6,800.00	6,684.79	6,667.79	6,667.79	30.42	133.71	-176.25	-433.78	280.56	584.48	426.17	158.31	3.692	
6,900.00	6,783.81	6,766.81	6,766.81	30.85	135.70	-176.36	-433.78	280.56	598.40	437.74	160.67	3.724	
7,000.00	6,883.25	6,866.25	6,866.25	31.24	137.70	-176.43	-433.78	280.56	608.87	445.85	163.03	3.735	
7,100.00	6,983.00	6,966.00	6,966.00	31.60	139.71	-176.48	-433.78	280.56	615.87	450.49	165.39	3.724	
7,200.00	7,082.93	7,065.93	7,065.93	31.92	141.72	-176.51	-433.78	280.56	619.39	451.65	167.74	3.693	
7,251.07	7,134.00	7,117.00	7,117.00	32.06	142.74	-25.21	-433.78	280.56	619.85	450.91	168.93	3.669	
7,300.00	7,182.93	7,165.93	7,165.93	32.19	143.73	-25.21	-433.78	280.56	619.85	449.78	170.07	3.645	
7,351.07	7,234.00	7,217.00	7,217.00	32.32	144.76	-25.21	-433.78	280.56	619.85	448.59	171.26	3.619	
7,400.00	7,282.87	7,265.87	7,265.87	32.47	145.74	155.13	-433.78	280.56	621.74	449.34	172.41	3.606	
7,450.00	7,332.44	7,315.44	7,315.44	32.67	146.74	155.13	-433.78	280.56	627.59	454.00	173.59	3.615	
7,500.00	7,381.26	7,364.26	7,364.26	32.90	147.72	155.12	-433.78	280.56	637.36	462.60	174.76	3.647	
7,550.00	7,428.96	7,411.96	7,411.96	33.18	148.68	155.07	-433.78	280.56	651.02	475.11	175.91	3.701	
7,600.00	7,475.17	7,458.17	7,458.17	33.48	149.61	154.97	-433.78	280.56	668.51	491.47	177.04	3.776	
7,650.00	7,519.55	7,502.55	7,502.55	33.82	150.50	154.79	-433.78	280.56	689.75	511.62	178.13	3.872	
7,700.00	7,561.76	7,544.76	7,544.76	34.20	151.35	154.47	-433.78	280.56	714.61	535.44	179.17	3.989	
7,750.00	7,601.47	7,584.47	7,584.47	34.60	152.15	153.97	-433.78	280.56	742.95	562.80	180.15	4.124	
7,800.00	7,638.39	7,621.39	7,621.39	35.04	152.89	153.23	-433.78	280.56	774.60	593.53	181.07	4.278	
7,850.00	7,672.23	7,655.23	7,655.23	35.50	153.57	152.16	-433.78	280.56	809.33	627.42	181.91	4.449	
7,900.00	7,702.74	7,685.74	7,685.74	35.99	154.18	150.64	-433.78	280.56	846.91	664.24	182.67	4.636	
7,950.00	7,729.67	7,712.67	7,712.67	36.50	154.72	148.50	-433.78	280.56	887.07	703.73	183.34	4.838	
8,000.00	7,752.84	7,735.84	7,735.84	37.04	155.19	145.45	-433.78	280.56	929.49	745.57	183.92	5.054	
8,050.00	7,772.06	7,755.06	7,755.06	37.60	155.58	141.06	-433.78	280.56	973.87	789.47	184.40	5.281	
8,100.00	7,787.18	7,770.18	7,770.18	38.17	155.88	134.60	-433.78	280.56	1,019.85	835.08	184.78	5.519	
8,150.00	7,798.10	7,781.10	7,781.10	38.76	156.10	124.88	-433.78	280.56	1,067.08	882.03	185.05	5.766	
8,200.00	7,804.72	7,787.72	7,787.72	39.36	156.23	110.34	-433.78	280.56	1,115.19	929.97	185.22	6.021	
8,251.15	7,807.00	7,790.00	7,790.00	39.97	156.28	90.00	-433.78	280.56	1,164.92	979.63	185.29	6.287	
8,300.00	7,807.00	7,790.00	7,790.00	40.56	156.28	90.00	-433.78	280.56	1,212.58	1,027.28	185.30	6.544	
8,400.00	7,807.00	7,790.00	7,790.00	41.80	156.28	90.00	-433.78	280.56	1,310.42	1,125.10	185.32	7.071	
8,500.00	7,807.00	7,790.00	7,790.00	43.08	156.28	90.00	-433.78	280.56	1,408.56	1,223.22	185.34	7.600	
8,600.00	7,806.99	7,789.99	7,789.99	44.40	156.28	89.99	-433.78	280.56	1,506.95	1,321.58	185.37	8.130	
8,700.00	7,806.99	7,789.99	7,789.99	45.74	156.28	89.99	-433.78	280.56	1,605.53	1,420.14	185.39	8.660	
8,800.00	7,806.99	7,789.99	7,789.99	47.11	156.28	89.99	-433.78	280.56	1,704.28	1,518.87	185.41	9.192	
8,900.00	7,806.99	7,789.99	7,789.99	48.51	156.28	89.99	-433.78	280.56	1,803.17	1,617.73	185.44	9.724	

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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		
9,000.00	7,806.99	7,789.99	7,789.99	49.93	156.28	89.99	-433.78	280.56	1,902.17	1,716.71	185.46	10.256		
9,100.00	7,806.99	7,789.99	7,789.99	51.38	156.28	89.99	-433.78	280.56	2,001.28	1,815.79	185.49	10.789		
9,200.00	7,806.99	7,789.99	7,789.99	52.84	156.28	89.99	-433.78	280.56	2,100.47	1,914.95	185.51	11.322		
9,300.00	7,806.98	7,789.98	7,789.98	54.32	156.28	89.99	-433.78	280.56	2,199.73	2,014.19	185.54	11.856		
9,400.00	7,806.98	7,789.98	7,789.98	55.82	156.28	89.99	-433.78	280.56	2,299.05	2,113.49	185.57	12.389		
9,500.00	7,806.98	7,789.98	7,789.98	57.34	156.28	89.99	-433.78	280.56	2,398.44	2,212.84	185.60	12.923		
9,600.00	7,806.98	7,789.98	7,789.98	58.87	156.28	89.99	-433.78	280.56	2,497.87	2,312.24	185.63	13.456		
9,700.00	7,806.98	7,789.98	7,789.98	60.41	156.28	89.99	-433.78	280.56	2,597.34	2,411.69	185.66	13.990		
9,800.00	7,806.98	7,789.98	7,789.98	61.96	156.28	89.99	-433.78	280.56	2,696.85	2,511.17	185.69	14.524		
9,900.00	7,806.97	7,789.97	7,789.97	63.53	156.28	89.99	-433.78	280.56	2,796.40	2,610.68	185.72	15.057		
10,000.00	7,806.97	7,789.97	7,789.97	65.10	156.28	89.99	-433.78	280.56	2,895.98	2,710.23	185.75	15.591		
10,100.00	7,806.97	7,789.97	7,789.97	66.69	156.28	89.99	-433.78	280.56	2,995.59	2,809.81	185.78	16.124		
10,200.00	7,806.97	7,789.97	7,789.97	68.29	156.28	89.99	-433.78	280.56	3,095.22	2,909.41	185.82	16.657		
10,300.00	7,806.97	7,789.97	7,789.97	69.89	156.28	89.99	-433.78	280.56	3,194.88	3,009.03	185.85	17.190		
10,400.00	7,806.97	7,789.97	7,789.97	71.50	156.28	89.99	-433.78	280.56	3,294.56	3,108.67	185.89	17.723		
10,500.00	7,806.97	7,789.97	7,789.97	73.12	156.28	89.99	-433.78	280.56	3,394.25	3,208.33	185.92	18.256		
10,600.00	7,806.96	7,789.96	7,789.96	74.75	156.28	89.99	-433.78	280.56	3,493.96	3,308.00	185.96	18.789		
10,700.00	7,806.96	7,789.96	7,789.96	76.38	156.28	89.99	-433.78	280.56	3,593.69	3,407.69	186.00	19.321		
10,800.00	7,806.96	7,789.96	7,789.96	78.02	156.28	89.99	-433.78	280.56	3,693.44	3,507.40	186.04	19.853		
10,900.00	7,806.96	7,789.96	7,789.96	79.66	156.28	89.99	-433.78	280.56	3,793.19	3,607.12	186.08	20.385		
11,000.00	7,806.96	7,789.96	7,789.96	81.31	156.28	89.99	-433.78	280.56	3,892.96	3,706.84	186.12	20.917		
11,100.00	7,806.96	7,789.96	7,789.96	82.97	156.28	89.99	-433.78	280.56	3,992.75	3,806.58	186.16	21.448		
11,200.00	7,806.95	7,789.95	7,789.95	84.63	156.28	89.99	-433.78	280.56	4,092.54	3,906.33	186.20	21.979		
11,300.00	7,806.95	7,789.95	7,789.95	86.29	156.28	89.99	-433.78	280.56	4,192.34	4,006.09	186.25	22.510		
11,400.00	7,806.95	7,789.95	7,789.95	87.96	156.28	89.99	-433.78	280.56	4,292.15	4,105.86	186.29	23.040		
11,500.00	7,806.95	7,789.95	7,789.95	89.64	156.28	89.99	-433.78	280.56	4,391.97	4,205.64	186.33	23.570		
11,600.00	7,806.95	7,789.95	7,789.95	91.31	156.28	89.98	-433.78	280.56	4,491.80	4,305.42	186.38	24.100		
11,700.00	7,806.95	7,789.95	7,789.95	92.99	156.28	89.98	-433.78	280.56	4,591.63	4,405.21	186.42	24.630		
11,800.00	7,806.95	7,789.95	7,789.95	94.68	156.28	89.98	-433.78	280.56	4,691.47	4,505.00	186.47	25.159		
11,900.00	7,806.94	7,789.94	7,789.94	96.36	156.28	89.98	-433.78	280.56	4,791.32	4,604.80	186.52	25.688		
12,000.00	7,806.94	7,789.94	7,789.94	98.05	156.28	89.98	-433.78	280.56	4,891.18	4,704.61	186.57	26.217		
12,100.00	7,806.94	7,789.94	7,789.94	99.74	156.28	89.98	-433.78	280.56	4,991.04	4,804.42	186.62	26.745		
12,200.00	7,806.94	7,789.94	7,789.94	101.44	156.28	89.98	-433.78	280.56	5,090.90	4,904.24	186.67	27.273		
12,300.00	7,806.94	7,789.94	7,789.94	103.14	156.28	89.98	-433.78	280.56	5,190.78	5,004.06	186.72	27.800		
12,400.00	7,806.94	7,789.94	7,789.94	104.84	156.28	89.98	-433.78	280.56	5,290.65	5,103.88	186.77	28.327		
12,500.00	7,806.93	7,789.93	7,789.93	106.54	156.28	89.98	-433.78	280.56	5,390.53	5,203.71	186.82	28.854		
12,600.00	7,806.93	7,789.93	7,789.93	108.25	156.28	89.98	-433.78	280.56	5,490.42	5,303.54	186.88	29.380		
12,700.00	7,806.93	7,789.93	7,789.93	109.95	156.28	89.98	-433.78	280.56	5,590.31	5,403.38	186.93	29.906		
12,800.00	7,806.93	7,789.93	7,789.93	111.66	156.28	89.98	-433.78	280.56	5,690.20	5,503.22	186.98	30.432		
12,900.00	7,806.93	7,789.93	7,789.93	113.37	156.28	89.98	-433.78	280.56	5,790.10	5,603.06	187.04	30.957		
13,000.00	7,806.93	7,789.93	7,789.93	115.09	156.28	89.98	-433.78	280.56	5,890.00	5,702.90	187.10	31.481		
13,100.00	7,806.93	7,789.93	7,789.93	116.80	156.28	89.98	-433.78	280.56	5,989.90	5,802.75	187.15	32.005		
13,200.00	7,806.92	7,789.92	7,789.92	118.52	156.28	89.98	-433.78	280.56	6,089.81	5,902.60	187.21	32.529		
13,300.00	7,806.92	7,789.92	7,789.92	120.24	156.28	89.98	-433.78	280.56	6,189.72	6,002.45	187.27	33.053		
13,400.00	7,806.92	7,789.92	7,789.92	121.96	156.28	89.98	-433.78	280.56	6,289.63	6,102.30	187.33	33.576		
13,500.00	7,806.92	7,789.92	7,789.92	123.68	156.28	89.98	-433.78	280.56	6,389.55	6,202.16	187.39	34.098		
13,600.00	7,806.92	7,789.92	7,789.92	125.40	156.28	89.98	-433.78	280.56	6,489.46	6,302.02	187.45	34.620		
13,700.00	7,806.92	7,789.92	7,789.92	127.12	156.28	89.98	-433.78	280.56	6,589.38	6,401.87	187.51	35.142		
13,800.00	7,806.91	7,789.91	7,789.91	128.85	156.28	89.98	-433.78	280.56	6,689.31	6,501.74	187.57	35.663		
13,900.00	7,806.91	7,789.91	7,789.91	130.58	156.28	89.98	-433.78	280.56	6,789.23	6,601.60	187.63	36.183		
14,000.00	7,806.91	7,789.91	7,789.91	132.30	156.28	89.98	-433.78	280.56	6,889.16	6,701.46	187.70	36.703		
14,100.00	7,806.91	7,789.91	7,789.91	134.03	156.28	89.98	-433.78	280.56	6,989.09	6,801.33	187.76	37.223		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 28-T1N-R68W - EXIST VERT MEIKLE 28-1 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,200.00	7,806.91	7,789.91	7,789.91	135.76	156.28	89.98	-433.78	280.56	7,089.02	6,901.19	187.83	37.742	
14,300.00	7,806.91	7,789.91	7,789.91	137.50	156.28	89.98	-433.78	280.56	7,188.95	7,001.06	187.89	38.261	
14,400.00	7,806.91	7,789.91	7,789.91	139.23	156.28	89.98	-433.78	280.56	7,288.89	7,100.93	187.96	38.779	
14,500.00	7,806.90	7,789.90	7,789.90	140.96	156.28	89.97	-433.78	280.56	7,388.83	7,200.80	188.03	39.297	
14,600.00	7,806.90	7,789.90	7,789.90	142.70	156.28	89.97	-433.78	280.56	7,488.76	7,300.67	188.09	39.814	
14,700.00	7,806.90	7,789.90	7,789.90	144.43	156.28	89.97	-433.78	280.56	7,588.70	7,400.54	188.16	40.330	
14,800.00	7,806.90	7,789.90	7,789.90	146.17	156.28	89.97	-433.78	280.56	7,688.65	7,500.41	188.23	40.847	
14,900.00	7,806.90	7,789.90	7,789.90	147.91	156.28	89.97	-433.78	280.56	7,788.59	7,600.29	188.30	41.362	
15,000.00	7,806.90	7,789.90	7,789.90	149.64	156.28	89.97	-433.78	280.56	7,888.53	7,700.16	188.37	41.877	
15,100.00	7,806.89	7,789.89	7,789.89	151.38	156.28	89.97	-433.78	280.56	7,988.48	7,800.04	188.44	42.392	
15,200.00	7,806.89	7,789.89	7,789.89	153.12	156.28	89.97	-433.78	280.56	8,088.43	7,899.91	188.52	42.906	
15,300.00	7,806.89	7,789.89	7,789.89	154.86	156.28	89.97	-433.78	280.56	8,188.38	7,999.79	188.59	43.419	
15,400.00	7,806.89	7,789.89	7,789.89	156.60	156.28	89.97	-433.78	280.56	8,288.33	8,099.66	188.66	43.932	
15,500.00	7,806.89	7,789.89	7,789.89	158.35	156.28	89.97	-433.78	280.56	8,388.28	8,199.54	188.74	44.445	
15,600.00	7,806.89	7,789.89	7,789.89	160.09	156.28	89.97	-433.78	280.56	8,488.23	8,299.42	188.81	44.956	
15,700.00	7,806.89	7,789.89	7,789.89	161.83	156.28	89.97	-433.78	280.56	8,588.18	8,399.30	188.89	45.468	
15,800.00	7,806.88	7,789.88	7,789.88	163.57	156.28	89.97	-433.78	280.56	8,688.14	8,499.18	188.96	45.979	
15,900.00	7,806.88	7,789.88	7,789.88	165.32	156.28	89.97	-433.78	280.56	8,788.09	8,599.06	189.04	46.489	
16,000.00	7,806.88	7,789.88	7,789.88	167.06	156.28	89.97	-433.78	280.56	8,888.05	8,698.94	189.11	46.998	
16,100.00	7,806.88	7,789.88	7,789.88	168.81	156.28	89.97	-433.78	280.56	8,988.01	8,798.82	189.19	47.507	
16,200.00	7,806.88	7,789.88	7,789.88	170.56	156.28	89.97	-433.78	280.56	9,087.97	8,898.70	189.27	48.016	
16,300.00	7,806.88	7,789.88	7,789.88	172.30	156.28	89.97	-433.78	280.56	9,187.92	8,998.58	189.35	48.524	
16,400.00	7,806.87	7,789.87	7,789.87	174.05	156.28	89.97	-433.78	280.56	9,287.88	9,098.46	189.43	49.031	
16,500.00	7,806.87	7,789.87	7,789.87	175.80	156.28	89.97	-433.78	280.56	9,387.85	9,198.34	189.51	49.538	
16,600.00	7,806.87	7,789.87	7,789.87	177.55	156.28	89.97	-433.78	280.56	9,487.81	9,298.22	189.59	50.044	
16,700.00	7,806.87	7,789.87	7,789.87	179.30	156.28	89.97	-433.78	280.56	9,587.77	9,398.10	189.67	50.549	
16,800.00	7,806.87	7,789.87	7,789.87	181.04	156.28	89.97	-433.78	280.56	9,687.73	9,497.98	189.75	51.054	
16,900.00	7,806.87	7,789.87	7,789.87	182.79	156.28	89.97	-433.78	280.56	9,787.70	9,597.86	189.84	51.559	
17,000.00	7,806.87	7,789.87	7,789.87	184.54	156.28	89.97	-433.78	280.56	9,887.66	9,697.74	189.92	52.063	
17,100.00	7,806.86	7,789.86	7,789.86	186.30	156.28	89.97	-433.78	280.56	9,987.63	9,797.63	190.00	52.566	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	36.00	-36.00	0.00	0.06	153.82	-3,282.35	1,613.95	3,657.69					
100.00	100.00	64.00	64.00	0.13	0.11	153.82	-3,282.35	1,613.95	3,657.69	3,657.44	0.25	N/A		
200.00	200.00	164.00	164.00	0.49	0.29	153.82	-3,282.35	1,613.95	3,657.69	3,656.90	0.78	4,665.978		
300.00	300.00	264.00	264.00	0.85	0.47	153.82	-3,282.35	1,613.95	3,657.69	3,656.37	1.32	2,771.352		
400.00	400.00	364.00	364.00	1.21	0.65	153.82	-3,282.35	1,613.95	3,657.69	3,655.83	1.86	1,971.017		
500.00	500.00	464.00	464.00	1.57	0.82	153.82	-3,282.35	1,613.95	3,657.69	3,655.30	2.39	1,529.357		
600.00	600.00	564.00	564.00	1.93	1.00	153.82	-3,282.35	1,613.95	3,657.69	3,654.76	2.93	1,249.395		
700.00	700.00	664.00	664.00	2.29	1.18	153.82	-3,282.35	1,613.95	3,657.69	3,654.22	3.46	1,056.073		
800.00	800.00	764.00	764.00	2.64	1.36	153.82	-3,282.35	1,613.95	3,657.69	3,653.69	4.00	914.560		
900.00	900.00	864.00	864.00	3.00	1.53	153.82	-3,282.35	1,613.95	3,657.69	3,653.15	4.54	806.491		
1,000.00	1,000.00	964.00	964.00	3.36	1.71	153.82	-3,282.35	1,613.95	3,657.69	3,652.62	5.07	721.263		
1,100.00	1,100.00	1,064.00	1,064.00	3.72	1.89	153.82	-3,282.35	1,613.95	3,657.69	3,652.08	5.61	652.327		
1,200.00	1,200.00	1,164.00	1,164.00	4.08	2.07	153.82	-3,282.35	1,613.95	3,657.69	3,651.54	6.14	595.418		
1,300.00	1,300.00	1,264.00	1,264.00	4.44	2.24	153.82	-3,282.35	1,613.95	3,657.69	3,651.01	6.68	547.642		
1,400.00	1,399.98	1,363.98	1,363.98	4.78	2.42	2.52	-3,282.35	1,613.95	3,655.94	3,648.75	7.20	507.895		
1,500.00	1,499.84	1,463.84	1,463.84	5.11	2.60	2.53	-3,282.35	1,613.95	3,650.72	3,643.01	7.70	473.819		
1,600.00	1,599.45	1,563.45	1,563.45	5.44	2.77	2.54	-3,282.35	1,613.95	3,642.01	3,633.79	8.22	443.330		
1,700.00	1,698.70	1,622.37	1,622.33	5.79	3.25	2.60	-3,284.07	1,611.99	3,630.74	3,621.71	9.02	402.366		
1,800.00	1,797.47	1,696.64	1,696.48	6.15	3.62	2.69	-3,286.79	1,608.88	3,616.55	3,606.81	9.73	371.550		
1,900.00	1,895.62	1,770.37	1,769.97	6.53	4.00	2.81	-3,290.75	1,604.36	3,599.60	3,589.15	10.45	344.398		
1,912.93	1,908.27	1,779.86	1,779.41	6.58	4.05	2.82	-3,291.35	1,603.68	3,597.20	3,586.66	10.55	341.051		
2,000.00	1,993.35	1,843.63	1,842.80	6.93	4.39	2.94	-3,295.91	1,598.47	3,581.21	3,570.03	11.17	320.470		
2,100.00	2,091.07	1,916.60	1,915.14	7.34	4.78	3.11	-3,302.27	1,591.20	3,563.50	3,551.59	11.90	299.405		
2,200.00	2,188.79	1,989.22	1,986.84	7.77	5.18	3.30	-3,309.80	1,582.60	3,546.52	3,533.88	12.63	280.711		
2,300.00	2,286.51	2,061.38	2,057.79	8.20	5.57	3.53	-3,318.47	1,572.70	3,530.30	3,516.93	13.37	264.059		
2,400.00	2,384.23	2,132.99	2,127.86	8.65	5.96	3.78	-3,328.23	1,561.55	3,514.87	3,500.77	14.11	249.175		
2,500.00	2,481.95	2,203.99	2,196.92	9.10	6.36	4.05	-3,339.05	1,549.20	3,500.27	3,485.43	14.84	235.824		
2,600.00	2,579.67	2,274.28	2,264.89	9.56	6.75	4.35	-3,350.86	1,535.71	3,486.54	3,470.96	15.58	223.812		
2,700.00	2,677.39	2,343.80	2,331.65	10.02	7.13	4.68	-3,363.62	1,521.13	3,473.71	3,457.40	16.31	212.971		
2,800.00	2,775.11	2,412.47	2,397.12	10.49	7.52	5.03	-3,377.27	1,505.54	3,461.82	3,444.78	17.04	203.163		
2,900.00	2,872.83	2,480.24	2,461.23	10.96	7.90	5.40	-3,391.75	1,489.00	3,450.93	3,433.17	17.76	194.268		
3,000.00	2,970.55	2,547.05	2,523.90	11.44	8.27	5.79	-3,407.00	1,471.58	3,441.09	3,422.60	18.48	186.184		
3,100.00	3,068.27	2,612.85	2,585.07	11.92	8.64	6.20	-3,422.96	1,453.36	3,432.33	3,413.14	19.19	178.825		
3,200.00	3,165.99	2,677.59	2,644.71	12.40	9.01	6.62	-3,439.56	1,434.40	3,424.71	3,404.81	19.90	172.115		
3,300.00	3,263.71	2,741.24	2,702.76	12.88	9.37	7.06	-3,456.74	1,414.78	3,418.29	3,397.69	20.59	165.991		
3,400.00	3,361.43	2,803.75	2,759.21	13.37	9.72	7.51	-3,474.43	1,394.57	3,413.11	3,391.83	21.28	160.396		
3,500.00	3,459.15	2,865.11	2,814.03	13.86	10.07	7.97	-3,492.59	1,373.84	3,409.22	3,387.26	21.96	155.282		
3,600.00	3,556.87	3,172.25	2,827.04	14.35	12.41	8.01	-3,494.23	1,371.96	3,405.65	3,381.18	24.47	139.191		
3,690.42	3,645.23	3,094.01	2,894.46	14.80	11.64	8.67	-3,520.38	1,342.09	3,405.35	3,381.28	24.07	141.485		
3,700.00	3,654.59	3,085.72	2,901.60	14.84	11.56	8.74	-3,523.16	1,338.92	3,405.35	3,381.32	24.03	141.731		
3,800.00	3,752.31	3,050.73	2,976.16	15.34	11.22	9.47	-3,552.09	1,305.88	3,405.79	3,381.73	24.06	141.560		
3,900.00	3,850.03	3,137.26	3,050.71	15.83	12.07	10.20	-3,581.02	1,272.84	3,406.97	3,381.78	25.18	135.294		
4,000.00	3,947.75	3,223.79	3,125.27	16.33	12.91	10.93	-3,609.95	1,239.79	3,408.88	3,382.58	26.30	129.622		
4,100.00	4,045.47	3,310.32	3,199.83	16.83	13.76	11.66	-3,638.88	1,206.75	3,411.53	3,384.12	27.41	124.470		
4,200.00	4,143.19	3,396.85	3,274.39	17.32	14.60	12.39	-3,667.81	1,173.71	3,414.91	3,386.40	28.51	119.775		
4,300.00	4,240.91	3,483.38	3,348.94	17.82	15.45	13.11	-3,696.74	1,140.67	3,419.03	3,389.42	29.61	115.485		
4,400.00	4,338.63	3,569.91	3,423.50	18.32	16.30	13.84	-3,725.67	1,107.62	3,423.87	3,393.18	30.69	111.554		
4,500.00	4,436.35	3,656.44	3,498.06	18.82	17.15	14.56	-3,754.60	1,074.58	3,429.44	3,397.67	31.77	107.943		
4,600.00	4,534.07	3,742.97	3,572.61	19.33	18.00	15.28	-3,783.53	1,041.54	3,435.73	3,402.89	32.84	104.619		
4,700.00	4,631.79	3,829.51	3,647.17	19.83	18.85	16.00	-3,812.46	1,008.50	3,442.74	3,408.84	33.90	101.553		
4,800.00	4,729.51	3,916.04	3,721.73	20.33	19.71	16.72	-3,841.39	975.45	3,450.46	3,415.51	34.95	98.719		
4,900.00	4,827.23	4,002.57	3,796.29	20.83	20.56	17.43	-3,870.32	942.41	3,458.90	3,422.90	35.99	96.094		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1500-MWD OWSG													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,924.95	4,089.10	3,870.84	21.34	21.41	18.14	-3,899.25	909.37	3,468.03	3,431.01	37.03	93.661		
5,100.00	5,022.67	4,175.63	3,945.40	21.84	22.27	18.85	-3,928.18	876.33	3,477.87	3,439.82	38.05	91.400		
5,200.00	5,120.39	4,262.16	4,019.96	22.35	23.12	19.56	-3,957.11	843.28	3,488.40	3,449.33	39.07	89.297		
5,300.00	5,218.11	4,348.69	4,094.52	22.85	23.97	20.26	-3,986.04	810.24	3,499.61	3,459.54	40.07	87.339		
5,400.00	5,315.83	4,435.22	4,169.07	23.36	24.83	20.96	-4,014.97	777.20	3,511.51	3,470.44	41.06	85.513		
5,500.00	5,413.55	4,521.75	4,243.63	23.86	25.68	21.65	-4,043.90	744.16	3,524.07	3,482.02	42.05	83.809		
5,600.00	5,511.27	4,608.28	4,318.19	24.37	26.54	22.34	-4,072.83	711.12	3,537.31	3,494.28	43.02	82.216		
5,700.00	5,608.99	4,694.81	4,392.75	24.88	27.39	23.03	-4,101.76	678.07	3,551.20	3,507.21	43.99	80.726		
5,800.00	5,706.71	4,781.34	4,467.30	25.38	28.25	23.71	-4,130.69	645.03	3,565.74	3,520.79	44.95	79.332		
5,900.00	5,804.43	4,867.87	4,541.86	25.89	29.11	24.39	-4,159.62	611.99	3,580.92	3,535.03	45.89	78.026		
6,000.00	5,902.15	4,947.53	4,617.18	26.40	30.00	25.08	-4,189.55	579.04	3,596.11	3,550.22	46.82	76.731		
6,100.00	5,999.87	5,033.80	4,692.45	26.91	30.90	25.77	-4,219.48	546.09	3,611.30	3,565.41	47.74	75.436		
6,200.00	6,097.59	5,119.96	4,767.72	27.42	31.80	26.46	-4,249.41	513.14	3,626.49	3,580.70	48.66	74.141		
6,300.00	6,195.30	5,206.04	4,842.04	27.93	32.70	27.15	-4,279.34	480.19	3,641.68	3,596.00	49.57	72.846		
6,400.00	6,293.02	5,292.12	4,916.36	28.44	33.60	27.84	-4,309.27	447.24	3,656.87	3,611.29	50.48	71.551		
6,500.00	6,390.74	5,378.20	4,990.68	28.95	34.50	28.53	-4,339.20	414.29	3,672.06	3,626.58	51.39	70.256		
6,600.00	6,488.46	5,464.28	5,064.99	29.46	35.40	29.22	-4,369.13	381.34	3,687.25	3,641.87	52.30	68.961		
6,638.14	6,525.73	5,501.55	5,102.30	29.64	35.80	29.60	-4,381.27	369.20	3,694.40	3,649.00	52.70	68.561		
6,700.00	6,586.32	5,597.64	5,176.61	29.95	36.30	30.10	-4,406.50	341.15	3,705.59	3,660.19	53.61	67.266		
6,800.00	6,684.79	5,693.73	5,250.92	30.46	36.80	30.60	-4,431.73	313.10	3,716.78	3,671.38	54.52	65.971		
6,900.00	6,783.81	5,789.81	5,325.23	30.85	37.30	31.09	-4,456.96	285.05	3,727.97	3,682.57	55.43	64.676		
7,000.00	6,883.25	5,885.90	5,400.54	31.36	37.80	31.59	-4,482.19	257.00	3,739.16	3,693.76	56.34	63.381		
7,093.22	6,976.23	5,982.00	5,475.85	31.57	38.20	31.80	-4,494.33	244.86	3,744.35	3,698.95	56.74	63.081		
7,100.00	6,983.00	5,989.00	5,483.00	31.60	38.23	31.83	-4,496.57	242.71	3,746.59	3,701.19	56.94	62.881		
7,200.00	7,082.93	6,085.09	5,557.91	31.92	38.73	32.15	-4,521.80	214.66	3,757.78	3,712.38	57.85	61.586		
7,251.07	7,134.00	6,136.18	5,609.02	32.06	38.87	32.29	-4,534.04	202.52	3,762.97	3,717.57	58.25	61.286		
7,300.00	7,182.93	6,187.27	5,660.13	32.19	38.99	32.41	-4,546.28	190.38	3,768.16	3,722.76	58.65	60.986		
7,351.07	7,234.00	6,238.36	5,711.24	32.32	39.11	32.54	-4,558.52	178.24	3,773.35	3,727.95	59.05	60.686		
7,400.00	7,282.87	6,289.45	5,762.35	32.47	39.23	32.67	-4,570.76	166.10	3,778.54	3,733.14	59.45	60.386		
7,450.00	7,332.44	6,339.54	5,813.44	32.67	39.37	32.87	-4,583.00	153.96	3,783.73	3,738.33	59.85	59.986		
7,500.00	7,381.26	6,389.63	5,864.53	32.90	39.51	33.10	-4,595.24	141.82	3,788.92	3,743.52	60.25	59.686		
7,550.00	7,428.96	6,439.72	5,915.62	33.18	39.65	33.38	-4,607.48	129.68	3,794.11	3,748.71	60.65	59.386		
7,600.00	7,475.17	6,489.81	5,966.71	33.48	39.79	33.68	-4,619.72	117.54	3,799.30	3,753.90	61.05	59.086		
7,650.00	7,519.55	6,539.90	6,017.80	33.82	39.93	34.02	-4,631.96	105.40	3,804.49	3,759.09	61.45	58.786		
7,700.00	7,561.76	6,589.99	6,068.89	34.20	40.07	34.40	-4,644.20	93.26	3,809.68	3,764.28	61.85	58.486		
7,750.00	7,601.47	6,639.08	6,119.98	34.60	40.21	34.80	-4,656.44	81.12	3,814.87	3,769.47	62.25	58.186		
7,800.00	7,638.39	6,689.17	6,170.07	35.04	40.35	35.24	-4,668.68	68.98	3,820.06	3,774.66	62.65	57.886		
7,850.00	7,672.23	6,739.26	6,220.16	35.50	40.49	35.70	-4,680.92	56.84	3,825.25	3,779.85	63.05	57.586		
7,900.00	7,702.74	6,789.35	6,270.25	35.99	40.63	36.19	-4,693.16	44.70	3,830.44	3,785.04	63.45	57.286		
7,950.00	7,729.67	6,839.44	6,320.34	36.50	40.77	36.70	-4,705.40	32.56	3,835.63	3,790.23	63.85	56.986		
8,000.00	7,752.84	6,889.53	6,370.43	37.04	40.91	37.24	-4,717.64	20.42	3,840.82	3,795.42	64.25	56.686		
8,050.00	7,772.06	6,939.62	6,420.52	37.60	41.05	37.80	-4,729.88	8.28	3,846.01	3,800.61	64.65	56.386		
8,100.00	7,787.18	6,989.71	6,470.61	38.17	41.19	38.37	-4,742.12	-3.86	3,851.20	3,805.80	65.05	56.086		
8,150.00	7,798.10	7,039.80	6,520.70	38.76	41.33	38.96	-4,754.36	-15.99	3,856.39	3,811.00	65.45	55.786		
8,200.00	7,804.72	7,089.89	6,570.79	39.36	41.47	39.56	-4,766.60	-28.13	3,861.58	3,816.19	65.85	55.486		
8,251.15	7,807.00	7,139.98	6,620.88	39.97	41.61	40.17	-4,778.84	-40.27	3,866.77	3,821.38	66.25	55.186		
8,300.00	7,807.00	7,189.07	6,670.97	40.56	41.75	40.76	-4,791.08	-52.41	3,871.96	3,826.57	66.65	54.886		
8,400.00	7,807.00	7,239.16	6,721.06	41.80	41.89	41.36	-4,803.32	-64.55	3,877.15	3,831.76	67.05	54.586		
8,500.00	7,807.00	7,289.25	6,771.15	43.08	42.03	42.64	-4,815.56	-76.69	3,882.34	3,836.95	67.45	54.286		
8,600.00	7,806.99	7,339.34	6,821.24	44.40	42.17	43.96	-4,827.80	-88.83	3,887.53	3,842.14	67.85	53.986		
8,700.00	7,806.99	7,389.43	6,871.33	45.74	42.31	45.30	-4,840.04	-100.97	3,892.72	3,847.33	68.25	53.686		
8,800.00	7,806.99	7,439.52	6,921.42	47.11	42.45	46.67	-4,852.28	-113.11	3,897.91	3,852.52	68.65	53.386		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
8,900.00	7,806.99	7,178.00	6,780.33	48.51	39.14	14.33	-4,422.32	311.95	2,430.01	2,367.65	62.36	38.966		
9,000.00	7,806.99	7,178.00	6,780.33	49.93	39.14	14.33	-4,422.32	311.95	2,339.67	2,277.34	62.34	37.531		
9,100.00	7,806.99	7,178.00	6,780.33	51.38	39.14	14.33	-4,422.32	311.95	2,250.15	2,187.85	62.31	36.114		
9,200.00	7,806.99	7,178.00	6,780.33	52.84	39.14	14.33	-4,422.32	311.95	2,161.55	2,099.29	62.26	34.718		
9,300.00	7,806.98	7,178.00	6,780.33	54.32	39.14	14.33	-4,422.32	311.95	2,073.98	2,011.79	62.20	33.346		
9,400.00	7,806.98	7,178.00	6,780.33	55.82	39.14	14.33	-4,422.32	311.95	1,987.59	1,925.48	62.11	32.000		
9,500.00	7,806.98	7,178.00	6,780.33	57.34	39.14	14.33	-4,422.32	311.95	1,902.53	1,840.53	62.00	30.685		
9,600.00	7,806.98	7,178.00	6,780.33	58.87	39.14	14.33	-4,422.32	311.95	1,819.00	1,757.13	61.86	29.404		
9,700.00	7,806.98	7,178.00	6,780.33	60.41	39.14	14.33	-4,422.32	311.95	1,737.20	1,675.51	61.68	28.163		
9,800.00	7,806.98	7,178.00	6,780.33	61.96	39.14	14.33	-4,422.32	311.95	1,657.40	1,595.94	61.46	26.967		
9,900.00	7,806.97	7,178.00	6,780.33	63.53	39.14	14.33	-4,422.32	311.95	1,579.90	1,518.72	61.18	25.824		
10,000.00	7,806.97	7,178.00	6,780.33	65.10	39.14	14.33	-4,422.32	311.95	1,505.05	1,444.22	60.83	24.742		
10,100.00	7,806.97	7,178.00	6,780.33	66.69	39.14	14.33	-4,422.32	311.95	1,433.28	1,372.88	60.40	23.730		
10,200.00	7,806.97	7,178.00	6,780.33	68.29	39.14	14.33	-4,422.32	311.95	1,365.07	1,305.19	59.88	22.798		
10,300.00	7,806.97	7,178.00	6,780.33	69.89	39.14	14.33	-4,422.32	311.95	1,300.97	1,241.73	59.24	21.960		
10,400.00	7,806.97	7,178.00	6,780.33	71.50	39.14	14.33	-4,422.32	311.95	1,241.62	1,183.13	58.49	21.228		
10,500.00	7,806.97	7,178.00	6,780.33	73.12	39.14	14.33	-4,422.32	311.95	1,187.75	1,130.13	57.62	20.615		
10,600.00	7,806.96	7,178.00	6,780.33	74.75	39.14	14.33	-4,422.32	311.95	1,140.11	1,083.48	56.63	20.132		
10,700.00	7,806.96	7,178.00	6,780.33	76.38	39.14	14.33	-4,422.32	311.95	1,099.53	1,043.96	55.57	19.786		
10,800.00	7,806.96	7,178.00	6,780.33	78.02	39.14	14.33	-4,422.32	311.95	1,066.81	1,012.31	54.50	19.574		
10,900.00	7,806.96	7,178.00	6,780.33	79.66	39.14	14.33	-4,422.32	311.95	1,042.68	989.17	53.51	19.485 SF		
11,000.00	7,806.96	7,178.00	6,780.33	81.31	39.14	14.33	-4,422.32	311.95	1,027.76	975.05	52.72	19.495		
11,100.00	7,806.96	7,178.00	6,780.33	82.97	39.14	14.33	-4,422.32	311.95	1,022.45	970.24	52.22	19.581 ES		
11,104.45	7,806.96	7,178.00	6,780.33	83.04	39.14	14.33	-4,422.32	311.95	1,022.44	970.24	52.20	19.586 CC		
11,200.00	7,806.95	7,178.00	6,780.33	84.63	39.14	14.33	-4,422.32	311.95	1,026.90	974.85	52.05	19.730		
11,300.00	7,806.95	7,178.00	6,780.33	86.29	39.14	14.33	-4,422.32	311.95	1,040.98	988.79	52.19	19.948		
11,400.00	7,806.95	7,178.00	6,780.33	87.96	39.14	14.33	-4,422.32	311.95	1,064.30	1,011.75	52.56	20.251		
11,500.00	7,806.95	7,178.00	6,780.33	89.64	39.14	14.33	-4,422.32	311.95	1,096.29	1,043.22	53.07	20.656		
11,600.00	7,806.95	7,178.00	6,780.33	91.31	39.14	14.33	-4,422.32	311.95	1,136.21	1,082.54	53.66	21.173		
11,700.00	7,806.95	7,178.00	6,780.33	92.99	39.14	14.33	-4,422.32	311.95	1,183.25	1,128.98	54.27	21.803		
11,800.00	7,806.95	7,178.00	6,780.33	94.68	39.14	14.33	-4,422.32	311.95	1,236.60	1,181.74	54.87	22.538		
11,900.00	7,806.94	7,178.00	6,780.33	96.36	39.14	14.33	-4,422.32	311.95	1,295.49	1,240.06	55.43	23.371		
12,000.00	7,806.94	7,178.00	6,780.33	98.05	39.14	14.33	-4,422.32	311.95	1,359.19	1,303.23	55.96	24.288		
12,100.00	7,806.94	7,178.00	6,780.33	99.74	39.14	14.33	-4,422.32	311.95	1,427.07	1,370.61	56.45	25.279		
12,200.00	7,806.94	7,178.00	6,780.33	101.44	39.14	14.33	-4,422.32	311.95	1,498.54	1,441.64	56.90	26.334		
12,300.00	7,806.94	7,178.00	6,780.33	103.14	39.14	14.33	-4,422.32	311.95	1,573.13	1,515.81	57.32	27.444		
12,400.00	7,806.94	7,178.00	6,780.33	104.84	39.14	14.33	-4,422.32	311.95	1,650.41	1,592.70	57.71	28.599		
12,500.00	7,806.93	7,178.00	6,780.33	106.54	39.14	14.33	-4,422.32	311.95	1,730.02	1,671.95	58.06	29.795		
12,600.00	7,806.93	7,178.00	6,780.33	108.25	39.14	14.33	-4,422.32	311.95	1,811.65	1,753.26	58.39	31.025		
12,700.00	7,806.93	7,178.00	6,780.33	109.95	39.14	14.33	-4,422.32	311.95	1,895.04	1,836.34	58.70	32.283		
12,800.00	7,806.93	7,178.00	6,780.33	111.66	39.14	14.33	-4,422.32	311.95	1,979.97	1,920.99	58.99	33.566		
12,900.00	7,806.93	7,178.00	6,780.33	113.37	39.14	14.33	-4,422.32	311.95	2,066.25	2,007.00	59.25	34.871		
13,000.00	7,806.93	7,178.00	6,780.33	115.09	39.14	14.33	-4,422.32	311.95	2,153.72	2,094.22	59.51	36.194		
13,100.00	7,806.93	7,178.00	6,780.33	116.80	39.14	14.33	-4,422.32	311.95	2,242.24	2,182.50	59.74	37.532		
13,200.00	7,806.92	7,178.00	6,780.33	118.52	39.14	14.33	-4,422.32	311.95	2,331.68	2,271.72	59.96	38.884		
13,300.00	7,806.92	7,178.00	6,780.33	120.24	39.14	14.33	-4,422.32	311.95	2,421.95	2,361.78	60.18	40.248		
13,400.00	7,806.92	7,178.00	6,780.33	121.96	39.14	14.33	-4,422.32	311.95	2,512.96	2,452.58	60.38	41.621		
13,500.00	7,806.92	7,178.00	6,780.33	123.68	39.14	14.33	-4,422.32	311.95	2,604.63	2,544.06	60.57	43.003		
13,600.00	7,806.92	7,178.00	6,780.33	125.40	39.14	14.33	-4,422.32	311.95	2,696.88	2,636.13	60.75	44.393		
13,700.00	7,806.92	7,178.00	6,780.33	127.12	39.14	14.33	-4,422.32	311.95	2,789.68	2,728.75	60.93	45.788		
13,800.00	7,806.91	7,178.00	6,780.33	128.85	39.14	14.33	-4,422.32	311.95	2,882.95	2,821.86	61.09	47.189		
13,900.00	7,806.91	7,178.00	6,780.33	130.58	39.14	14.33	-4,422.32	311.95	2,976.66	2,915.41	61.26	48.594		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
14,000.00	7,806.91	7,178.00	6,780.33	132.30	39.14	14.33	-4,422.32	311.95	3,070.77	3,009.36	61.41	50.002		
14,100.00	7,806.91	7,178.00	6,780.33	134.03	39.14	14.33	-4,422.32	311.95	3,165.24	3,103.67	61.56	51.413		
14,200.00	7,806.91	7,178.00	6,780.33	135.76	39.14	14.33	-4,422.32	311.95	3,260.04	3,198.33	61.71	52.827		
14,300.00	7,806.91	7,178.00	6,780.33	137.50	39.14	14.33	-4,422.32	311.95	3,355.14	3,293.28	61.85	54.243		
14,400.00	7,806.91	7,178.00	6,780.33	139.23	39.14	14.33	-4,422.32	311.95	3,450.52	3,388.52	61.99	55.659		
14,500.00	7,806.90	7,178.00	6,780.33	140.96	39.14	14.33	-4,422.32	311.95	3,546.15	3,484.02	62.13	57.077		
14,600.00	7,806.90	7,178.00	6,780.33	142.70	39.14	14.33	-4,422.32	311.95	3,642.02	3,579.76	62.26	58.495		
14,700.00	7,806.90	7,178.00	6,780.33	144.43	39.14	14.33	-4,422.32	311.95	3,738.10	3,675.71	62.39	59.913		
14,800.00	7,806.90	7,178.00	6,780.33	146.17	39.14	14.33	-4,422.32	311.95	3,834.39	3,771.87	62.52	61.331		
14,900.00	7,806.90	7,178.00	6,780.33	147.91	39.14	14.33	-4,422.32	311.95	3,930.86	3,868.21	62.64	62.748		
15,000.00	7,806.90	7,178.00	6,780.33	149.64	39.14	14.33	-4,422.32	311.95	4,027.50	3,964.73	62.77	64.165		
15,100.00	7,806.89	7,178.00	6,780.33	151.38	39.14	14.33	-4,422.32	311.95	4,124.30	4,061.41	62.89	65.580		
15,200.00	7,806.89	7,178.00	6,780.33	153.12	39.14	14.33	-4,422.32	311.95	4,221.25	4,158.24	63.01	66.994		
15,300.00	7,806.89	7,178.00	6,780.33	154.86	39.14	14.33	-4,422.32	311.95	4,318.34	4,255.21	63.13	68.407		
15,400.00	7,806.89	7,178.00	6,780.33	156.60	39.14	14.33	-4,422.32	311.95	4,415.56	4,352.32	63.24	69.818		
15,500.00	7,806.89	7,178.00	6,780.33	158.35	39.14	14.33	-4,422.32	311.95	4,512.90	4,449.54	63.36	71.227		
15,600.00	7,806.89	7,178.00	6,780.33	160.09	39.14	14.33	-4,422.32	311.95	4,610.36	4,546.88	63.47	72.634		
15,700.00	7,806.89	7,178.00	6,780.33	161.83	39.14	14.33	-4,422.32	311.95	4,707.92	4,644.33	63.59	74.039		
15,800.00	7,806.88	7,178.00	6,780.33	163.57	39.14	14.33	-4,422.32	311.95	4,805.58	4,741.88	63.70	75.442		
15,900.00	7,806.88	7,178.00	6,780.33	165.32	39.14	14.33	-4,422.32	311.95	4,903.34	4,839.53	63.81	76.842		
16,000.00	7,806.88	7,178.00	6,780.33	167.06	39.14	14.33	-4,422.32	311.95	5,001.18	4,937.26	63.92	78.240		
16,100.00	7,806.88	7,178.00	6,780.33	168.81	39.14	14.33	-4,422.32	311.95	5,099.11	5,035.08	64.03	79.635		
16,200.00	7,806.88	7,178.00	6,780.33	170.56	39.14	14.33	-4,422.32	311.95	5,197.12	5,132.98	64.14	81.027		
16,300.00	7,806.88	7,178.00	6,780.33	172.30	39.14	14.33	-4,422.32	311.95	5,295.20	5,230.95	64.25	82.416		
16,400.00	7,806.87	7,178.00	6,780.33	174.05	39.14	14.33	-4,422.32	311.95	5,393.36	5,329.00	64.36	83.802		
16,500.00	7,806.87	7,178.00	6,780.33	175.80	39.14	14.33	-4,422.32	311.95	5,491.58	5,427.11	64.47	85.185		
16,600.00	7,806.87	7,178.00	6,780.33	177.55	39.14	14.33	-4,422.32	311.95	5,589.86	5,525.28	64.57	86.565		
16,700.00	7,806.87	7,178.00	6,780.33	179.30	39.14	14.33	-4,422.32	311.95	5,688.20	5,623.52	64.68	87.942		
16,800.00	7,806.87	7,178.00	6,780.33	181.04	39.14	14.33	-4,422.32	311.95	5,786.60	5,721.81	64.79	89.316		
16,900.00	7,806.87	7,178.00	6,780.33	182.79	39.14	14.33	-4,422.32	311.95	5,885.05	5,820.16	64.90	90.686		
17,000.00	7,806.87	7,178.00	6,780.33	184.54	39.14	14.33	-4,422.32	311.95	5,983.56	5,918.56	65.00	92.052		
17,100.00	7,806.86	7,178.00	6,780.33	186.30	39.14	14.33	-4,422.32	311.95	6,082.11	6,017.00	65.11	93.416		
17,200.00	7,806.86	7,178.00	6,780.33	188.05	39.14	14.33	-4,422.32	311.95	6,180.71	6,115.50	65.21	94.775		
17,300.00	7,806.86	7,178.00	6,780.33	189.80	39.14	14.33	-4,422.32	311.95	6,279.35	6,214.03	65.32	96.131		
17,400.00	7,806.86	7,178.00	6,780.33	191.55	39.14	14.33	-4,422.32	311.95	6,378.04	6,312.61	65.43	97.483		
17,500.00	7,806.86	7,178.00	6,780.33	193.30	39.14	14.33	-4,422.32	311.95	6,476.77	6,411.23	65.53	98.832		
17,600.00	7,806.86	7,178.00	6,780.33	195.06	39.14	14.33	-4,422.32	311.95	6,575.53	6,509.89	65.64	100.177		
17,700.00	7,806.85	7,178.00	6,780.33	196.81	39.14	14.33	-4,422.32	311.95	6,674.33	6,608.59	65.75	101.518		
17,800.00	7,806.85	7,178.00	6,780.33	198.56	39.14	14.33	-4,422.32	311.95	6,773.17	6,707.32	65.85	102.855		
17,898.35	7,807.00	7,178.00	6,780.33	200.29	39.14	14.33	-4,422.32	311.95	6,870.43	6,804.48	65.96	104.167		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	153.58	-3,283.08	1,631.32	3,666.24					
100.00	100.00	62.00	62.00	0.13	0.72	153.58	-3,283.08	1,631.32	3,666.04	3,665.19	0.85	4,300.029		
200.00	200.00	162.00	162.00	0.49	2.58	153.58	-3,283.08	1,631.32	3,666.04	3,662.96	3.08	1,191.706		
300.00	300.00	262.00	262.00	0.85	4.75	153.58	-3,283.08	1,631.32	3,666.04	3,660.44	5.60	654.976		
400.00	400.00	362.00	362.00	1.21	6.80	153.58	-3,283.08	1,631.32	3,666.04	3,658.03	8.01	457.570		
500.00	500.00	462.00	462.00	1.57	8.84	153.58	-3,283.08	1,631.32	3,666.04	3,655.63	10.40	352.348		
600.00	600.00	562.00	562.00	1.93	10.86	153.58	-3,283.08	1,631.32	3,666.04	3,653.25	12.79	286.672		
700.00	700.00	662.00	662.00	2.29	12.88	153.58	-3,283.08	1,631.32	3,666.04	3,650.87	15.17	241.706		
800.00	800.00	762.00	762.00	2.64	14.90	153.58	-3,283.08	1,631.32	3,666.04	3,648.50	17.54	208.965		
900.00	900.00	862.00	862.00	3.00	16.92	153.58	-3,283.08	1,631.32	3,666.04	3,646.12	19.92	184.052		
1,000.00	1,000.00	962.00	962.00	3.36	18.93	153.58	-3,283.08	1,631.32	3,666.04	3,643.75	22.29	164.454		
1,100.00	1,100.00	1,062.00	1,062.00	3.72	20.95	153.58	-3,283.08	1,631.32	3,666.04	3,641.37	24.66	148.634		
1,200.00	1,200.00	1,162.00	1,162.00	4.08	22.96	153.58	-3,283.08	1,631.32	3,666.04	3,639.00	27.04	135.593		
1,300.00	1,300.00	1,262.00	1,262.00	4.44	24.97	153.58	-3,283.08	1,631.32	3,666.04	3,636.63	29.41	124.658		
1,400.00	1,399.98	1,361.98	1,361.98	4.78	26.99	2.28	-3,283.08	1,631.32	3,664.30	3,632.53	31.76	115.363		
1,500.00	1,499.84	1,461.84	1,461.84	5.11	29.00	2.29	-3,283.08	1,631.32	3,659.07	3,624.96	34.10	107.296		
1,600.00	1,599.45	1,561.45	1,561.45	5.44	31.00	2.30	-3,283.08	1,631.32	3,650.36	3,613.92	36.44	100.173		
1,700.00	1,698.70	1,660.70	1,660.70	5.79	33.00	2.32	-3,283.08	1,631.32	3,638.18	3,599.41	38.77	93.830		
1,800.00	1,797.47	1,759.47	1,759.47	6.15	34.98	2.34	-3,283.08	1,631.32	3,622.55	3,581.45	41.10	88.138		
1,900.00	1,895.62	1,857.62	1,857.62	6.53	36.96	2.37	-3,283.08	1,631.32	3,603.49	3,560.07	43.42	82.996		
1,912.93	1,908.27	1,870.27	1,870.27	6.58	37.21	2.38	-3,283.08	1,631.32	3,600.77	3,557.05	43.72	82.362		
2,000.00	1,993.35	1,955.35	1,955.35	6.93	38.93	2.39	-3,283.08	1,631.32	3,582.30	3,536.57	45.73	78.342		
2,100.00	2,091.07	2,053.07	2,053.07	7.34	40.89	2.40	-3,283.08	1,631.32	3,561.09	3,513.05	48.04	74.135		
2,200.00	2,188.79	2,150.79	2,150.79	7.77	42.86	2.42	-3,283.08	1,631.32	3,539.87	3,489.52	50.35	70.308		
2,300.00	2,286.51	2,248.51	2,248.51	8.20	44.82	2.43	-3,283.08	1,631.32	3,518.66	3,465.99	52.66	66.813		
2,400.00	2,384.23	2,346.23	2,346.23	8.65	46.79	2.45	-3,283.08	1,631.32	3,497.44	3,442.46	54.98	63.610		
2,500.00	2,481.95	2,443.95	2,443.95	9.10	48.75	2.46	-3,283.08	1,631.32	3,476.23	3,418.92	57.30	60.664		
2,600.00	2,579.67	2,541.67	2,541.67	9.56	50.72	2.48	-3,283.08	1,631.32	3,455.01	3,395.39	59.63	57.944		
2,700.00	2,677.39	2,639.39	2,639.39	10.02	52.69	2.49	-3,283.08	1,631.32	3,433.80	3,371.85	61.95	55.427		
2,800.00	2,775.11	2,737.11	2,737.11	10.49	54.65	2.51	-3,283.08	1,631.32	3,412.59	3,348.31	64.28	53.091		
2,900.00	2,872.83	2,834.83	2,834.83	10.96	56.62	2.52	-3,283.08	1,631.32	3,391.37	3,324.77	66.61	50.917		
3,000.00	2,970.55	2,932.55	2,932.55	11.44	58.58	2.54	-3,283.08	1,631.32	3,370.16	3,301.23	68.94	48.889		
3,100.00	3,068.27	3,030.27	3,030.27	11.92	60.55	2.56	-3,283.08	1,631.32	3,348.95	3,277.68	71.27	46.992		
3,200.00	3,165.99	3,127.99	3,127.99	12.40	62.51	2.57	-3,283.08	1,631.32	3,327.74	3,254.14	73.60	45.215		
3,300.00	3,263.71	3,225.71	3,225.71	12.88	64.48	2.59	-3,283.08	1,631.32	3,306.53	3,230.60	75.93	43.547		
3,400.00	3,361.43	3,323.43	3,323.43	13.37	66.44	2.61	-3,283.08	1,631.32	3,285.31	3,207.05	78.26	41.977		
3,500.00	3,459.15	3,421.15	3,421.15	13.86	68.41	2.62	-3,283.08	1,631.32	3,264.10	3,183.50	80.60	40.499		
3,600.00	3,556.87	3,518.87	3,518.87	14.35	70.37	2.64	-3,283.08	1,631.32	3,242.89	3,159.96	82.93	39.102		
3,700.00	3,654.59	3,616.59	3,616.59	14.84	72.34	2.66	-3,283.08	1,631.32	3,221.68	3,136.41	85.27	37.783		
3,800.00	3,752.31	3,714.31	3,714.31	15.34	74.30	2.67	-3,283.08	1,631.32	3,200.47	3,112.86	87.61	36.533		
3,900.00	3,850.03	3,812.03	3,812.03	15.83	76.27	2.69	-3,283.08	1,631.32	3,179.26	3,089.32	89.94	35.348		
4,000.00	3,947.75	3,909.75	3,909.75	16.33	78.24	2.71	-3,283.08	1,631.32	3,158.05	3,065.77	92.28	34.222		
4,100.00	4,045.47	4,007.47	4,007.47	16.83	80.20	2.73	-3,283.08	1,631.32	3,136.84	3,042.22	94.62	33.153		
4,200.00	4,143.19	4,105.19	4,105.19	17.32	82.17	2.75	-3,283.08	1,631.32	3,115.63	3,018.67	96.96	32.134		
4,300.00	4,240.91	4,202.91	4,202.91	17.82	84.13	2.77	-3,283.08	1,631.32	3,094.42	2,995.12	99.30	31.164		
4,400.00	4,338.63	4,300.63	4,300.63	18.32	86.10	2.79	-3,283.08	1,631.32	3,073.21	2,971.58	101.64	30.238		
4,500.00	4,436.35	4,401.65	4,398.35	18.82	88.13	2.80	-3,283.08	1,631.32	3,052.00	2,947.96	104.04	29.334		
4,600.00	4,534.07	4,503.93	4,496.07	19.33	90.19	2.82	-3,283.08	1,631.32	3,030.80	2,924.32	106.47	28.465		
4,700.00	4,631.79	4,606.21	4,593.79	19.83	92.24	2.84	-3,283.08	1,631.32	3,009.59	2,900.68	108.91	27.635		
4,800.00	4,729.51	4,708.49	4,691.51	20.33	94.30	2.86	-3,283.08	1,631.32	2,988.38	2,877.04	111.34	26.841		
4,900.00	4,827.23	4,789.23	4,789.23	20.83	95.92	2.88	-3,283.08	1,631.32	2,967.17	2,853.84	113.34	26.180		
5,000.00	4,924.95	4,886.95	4,886.95	21.34	97.89	2.91	-3,283.08	1,631.32	2,945.97	2,830.29	115.68	25.467		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,984.67	4,984.67	21.84	99.85	2.93	-3,283.08	1,631.32	2,924.76	2,806.74	118.02	24.782		
5,200.00	5,120.39	5,082.39	5,082.39	22.35	101.82	2.95	-3,283.08	1,631.32	2,903.55	2,783.19	120.36	24.123		
5,300.00	5,218.11	5,180.11	5,180.11	22.85	103.78	2.97	-3,283.08	1,631.32	2,882.35	2,759.64	122.71	23.490		
5,400.00	5,315.83	5,277.83	5,277.83	23.36	105.75	2.99	-3,283.08	1,631.32	2,861.14	2,736.10	125.05	22.880		
5,500.00	5,413.55	5,375.55	5,375.55	23.86	107.71	3.01	-3,283.08	1,631.32	2,839.94	2,712.55	127.39	22.293		
5,600.00	5,511.27	5,473.27	5,473.27	24.37	109.68	3.04	-3,283.08	1,631.32	2,818.73	2,689.00	129.73	21.727		
5,700.00	5,608.99	5,570.99	5,570.99	24.88	111.64	3.06	-3,283.08	1,631.32	2,797.53	2,665.45	132.08	21.181		
5,800.00	5,706.71	5,668.71	5,668.71	25.38	113.61	3.08	-3,283.08	1,631.32	2,776.33	2,641.91	134.42	20.654		
5,900.00	5,804.43	5,766.43	5,766.43	25.89	115.57	3.11	-3,283.08	1,631.32	2,755.12	2,618.36	136.76	20.145		
6,000.00	5,902.15	5,864.15	5,864.15	26.40	117.54	3.13	-3,283.08	1,631.32	2,733.92	2,594.81	139.11	19.653		
6,100.00	5,999.87	5,961.87	5,961.87	26.91	119.51	3.16	-3,283.08	1,631.32	2,712.72	2,571.27	141.45	19.178		
6,200.00	6,097.59	6,059.59	6,059.59	27.42	121.47	3.18	-3,283.08	1,631.32	2,691.52	2,547.72	143.80	18.718		
6,300.00	6,195.30	6,157.30	6,157.30	27.92	123.44	3.21	-3,283.08	1,631.32	2,670.32	2,524.18	146.14	18.272		
6,400.00	6,293.02	6,255.02	6,255.02	28.43	125.40	3.23	-3,283.08	1,631.32	2,649.12	2,500.63	148.48	17.841		
6,500.00	6,390.74	6,352.74	6,352.74	28.94	127.37	3.26	-3,283.08	1,631.32	2,627.92	2,477.09	150.83	17.423		
6,600.00	6,488.46	6,450.46	6,450.46	29.45	129.33	3.28	-3,283.08	1,631.32	2,606.72	2,453.54	153.17	17.018		
6,638.14	6,525.73	6,487.73	6,487.73	29.64	130.08	3.29	-3,283.08	1,631.32	2,598.63	2,444.56	154.07	16.867		
6,700.00	6,586.32	6,548.32	6,548.32	29.95	131.30	3.30	-3,283.08	1,631.32	2,586.17	2,430.65	155.52	16.629		
6,800.00	6,684.79	6,646.79	6,646.79	30.42	133.28	3.30	-3,283.08	1,631.32	2,568.80	2,410.92	157.87	16.271		
6,900.00	6,783.81	6,745.81	6,745.81	30.85	135.27	3.30	-3,283.08	1,631.32	2,554.87	2,394.63	160.23	15.945		
7,000.00	6,883.25	6,845.25	6,845.25	31.24	137.27	3.30	-3,283.08	1,631.32	2,544.39	2,381.80	162.59	15.649		
7,100.00	6,983.00	6,945.00	6,945.00	31.60	139.28	3.30	-3,283.08	1,631.32	2,537.39	2,372.44	164.95	15.383		
7,200.00	7,082.93	7,044.93	7,044.93	31.92	141.29	3.30	-3,283.08	1,631.32	2,533.87	2,366.57	167.30	15.145		
7,251.07	7,134.00	7,104.00	7,104.00	32.06	142.47	154.60	-3,283.08	1,631.32	2,533.42	2,364.76	168.66	15.021		
7,300.00	7,182.93	7,144.93	7,144.93	32.19	143.30	154.60	-3,283.08	1,631.32	2,533.42	2,363.78	169.64	14.934		
7,351.07	7,234.00	7,204.00	7,196.00	32.32	144.48	154.60	-3,283.08	1,631.32	2,533.42	2,362.43	170.99	14.817		
7,400.00	7,282.87	7,244.87	7,244.87	32.47	145.31	-25.16	-3,283.08	1,631.32	2,531.53	2,359.56	171.97	14.721		
7,450.00	7,332.44	7,305.56	7,294.44	32.67	146.53	-25.47	-3,283.08	1,631.32	2,525.70	2,352.33	173.37	14.568		
7,500.00	7,381.26	7,343.26	7,343.26	32.90	147.28	-26.01	-3,283.08	1,631.32	2,516.00	2,341.68	174.31	14.434		
7,550.00	7,428.96	7,409.04	7,390.96	33.18	148.61	-26.78	-3,283.08	1,631.32	2,502.49	2,326.67	175.83	14.233		
7,600.00	7,475.17	7,437.17	7,437.17	33.48	149.17	-27.82	-3,283.08	1,631.32	2,485.30	2,308.72	176.58	14.075		
7,650.00	7,519.55	7,481.55	7,481.55	33.82	150.07	-29.15	-3,283.08	1,631.32	2,464.58	2,286.92	177.66	13.872		
7,700.00	7,561.76	7,523.76	7,523.76	34.20	150.91	-30.83	-3,283.08	1,631.32	2,440.51	2,261.81	178.70	13.657		
7,750.00	7,601.47	7,563.47	7,563.47	34.60	151.71	-32.90	-3,283.08	1,631.32	2,413.28	2,233.60	179.68	13.431		
7,800.00	7,638.39	7,600.39	7,600.39	35.04	152.46	-35.44	-3,283.08	1,631.32	2,383.15	2,202.54	180.60	13.196		
7,850.00	7,672.23	7,634.23	7,634.23	35.50	153.14	-38.54	-3,283.08	1,631.32	2,350.36	2,168.90	181.46	12.953		
7,900.00	7,702.74	7,664.74	7,664.74	35.99	153.75	-42.28	-3,283.08	1,631.32	2,315.20	2,132.96	182.24	12.704		
7,950.00	7,729.67	7,708.33	7,691.67	36.50	154.63	-46.79	-3,283.08	1,631.32	2,277.97	2,094.69	183.28	12.429		
8,000.00	7,752.84	7,714.84	7,714.84	37.04	154.76	-52.15	-3,283.08	1,631.32	2,239.00	2,055.43	183.57	12.197		
8,050.00	7,772.06	7,734.06	7,734.06	37.60	155.14	-58.41	-3,283.08	1,631.32	2,198.62	2,014.50	184.12	11.941		
8,100.00	7,787.18	7,749.18	7,749.18	38.17	155.45	-65.55	-3,283.08	1,631.32	2,157.16	1,972.57	184.59	11.686		
8,150.00	7,798.10	7,760.10	7,760.10	38.76	155.67	-73.39	-3,283.08	1,631.32	2,114.98	1,930.01	184.97	11.434		
8,200.00	7,804.72	7,766.72	7,766.72	39.36	155.80	-81.62	-3,283.08	1,631.32	2,072.44	1,887.17	185.28	11.186		
8,251.15	7,807.00	7,769.00	7,769.00	39.97	155.85	-90.00	-3,283.08	1,631.32	2,028.92	1,843.41	185.51	10.937		
8,300.00	7,807.00	7,769.00	7,769.00	40.56	155.85	-90.00	-3,283.08	1,631.32	1,987.62	1,801.92	185.71	10.703		
8,400.00	7,807.00	7,769.00	7,769.00	41.80	155.85	-90.00	-3,283.08	1,631.32	1,904.21	1,718.00	186.21	10.226		
8,500.00	7,807.00	7,769.00	7,769.00	43.08	155.85	-90.00	-3,283.08	1,631.32	1,822.48	1,635.61	186.87	9.753		
8,600.00	7,806.99	7,768.99	7,768.99	44.40	155.85	-90.00	-3,283.08	1,631.32	1,742.64	1,554.95	187.69	9.284		
8,700.00	7,806.99	7,768.99	7,768.99	45.74	155.85	-90.00	-3,283.08	1,631.32	1,664.99	1,476.27	188.72	8.822		
8,800.00	7,806.99	7,768.99	7,768.99	47.11	155.85	-90.00	-3,283.08	1,631.32	1,589.83	1,399.86	189.98	8.369		
8,900.00	7,806.99	7,768.99	7,768.99	48.51	155.85	-90.00	-3,283.08	1,631.32	1,517.55	1,326.07	191.48	7.925		
9,000.00	7,806.99	7,768.99	7,768.99	49.93	155.85	-90.00	-3,283.08	1,631.32	1,448.57	1,255.32	193.25	7.496		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,768.99	7,768.99	51.38	155.85	-90.00	-3,283.08	1,631.32	1,383.38	1,188.07	195.30	7.083		
9,200.00	7,806.99	7,768.99	7,768.99	52.84	155.85	-90.00	-3,283.08	1,631.32	1,322.54	1,124.90	197.64	6.692		
9,300.00	7,806.98	7,768.98	7,768.98	54.32	155.85	-90.00	-3,283.08	1,631.32	1,266.69	1,066.44	200.24	6.326		
9,400.00	7,806.98	7,768.98	7,768.98	55.82	155.85	-90.00	-3,283.08	1,631.32	1,216.51	1,013.42	203.09	5.990		
9,500.00	7,806.98	7,768.98	7,768.98	57.34	155.85	-90.00	-3,283.08	1,631.32	1,172.72	966.61	206.11	5.690		
9,600.00	7,806.98	7,768.98	7,768.98	58.87	155.85	-90.00	-3,283.08	1,631.32	1,136.07	926.83	209.24	5.430		
9,700.00	7,806.98	7,768.98	7,768.98	60.41	155.85	-90.00	-3,283.08	1,631.32	1,107.27	894.90	212.36	5.214		
9,800.00	7,806.98	7,768.98	7,768.98	61.96	155.85	-90.00	-3,283.08	1,631.32	1,086.93	871.57	215.37	5.047		
9,900.00	7,806.97	7,768.97	7,768.97	63.53	155.85	-90.00	-3,283.08	1,631.32	1,075.55	857.42	218.13	4.931		
9,973.07	7,806.97	7,768.97	7,768.97	64.68	155.85	-90.00	-3,283.08	1,631.32	1,073.07	853.14	219.93	4.879 CC		
10,000.00	7,806.97	7,768.97	7,768.97	65.10	155.85	-90.00	-3,283.08	1,631.32	1,073.40	852.87	220.54	4.867 ES		
10,100.00	7,806.97	7,768.97	7,768.97	66.69	155.85	-90.00	-3,283.08	1,631.32	1,080.55	858.03	222.51	4.856 SF		
10,200.00	7,806.97	7,768.97	7,768.97	68.29	155.85	-90.00	-3,283.08	1,631.32	1,096.80	872.79	224.01	4.896		
10,300.00	7,806.97	7,768.97	7,768.97	69.89	155.85	-90.00	-3,283.08	1,631.32	1,121.76	896.73	225.03	4.985		
10,400.00	7,806.97	7,768.97	7,768.97	71.50	155.85	-90.00	-3,283.08	1,631.32	1,154.88	929.27	225.60	5.119		
10,500.00	7,806.97	7,768.97	7,768.97	73.12	155.85	-90.00	-3,283.08	1,631.32	1,195.46	969.68	225.78	5.295		
10,600.00	7,806.96	7,768.96	7,768.96	74.75	155.85	-90.00	-3,283.08	1,631.32	1,242.78	1,017.15	225.63	5.508		
10,700.00	7,806.96	7,768.96	7,768.96	76.38	155.85	-90.00	-3,283.08	1,631.32	1,296.11	1,070.87	225.24	5.754		
10,800.00	7,806.96	7,768.96	7,768.96	78.02	155.85	-90.00	-3,283.08	1,631.32	1,354.72	1,130.07	224.66	6.030		
10,900.00	7,806.96	7,768.96	7,768.96	79.66	155.85	-90.00	-3,283.08	1,631.32	1,417.98	1,194.03	223.94	6.332		
11,000.00	7,806.96	7,768.96	7,768.96	81.31	155.85	-90.00	-3,283.08	1,631.32	1,485.28	1,262.13	223.15	6.656		
11,100.00	7,806.96	7,768.96	7,768.96	82.97	155.85	-90.00	-3,283.08	1,631.32	1,556.10	1,333.79	222.31	7.000		
11,200.00	7,806.95	7,768.95	7,768.95	84.63	155.85	-90.00	-3,283.08	1,631.32	1,629.98	1,408.53	221.44	7.361		
11,300.00	7,806.95	7,768.95	7,768.95	86.29	155.85	-90.00	-3,283.08	1,631.32	1,706.52	1,485.94	220.58	7.736		
11,400.00	7,806.95	7,768.95	7,768.95	87.96	155.85	-90.00	-3,283.08	1,631.32	1,785.38	1,565.65	219.73	8.125		
11,500.00	7,806.95	7,768.95	7,768.95	89.64	155.85	-90.00	-3,283.08	1,631.32	1,866.27	1,647.36	218.91	8.525		
11,600.00	7,806.95	7,768.95	7,768.95	91.31	155.85	-90.00	-3,283.08	1,631.32	1,948.94	1,730.82	218.12	8.935		
11,700.00	7,806.95	7,768.95	7,768.95	92.99	155.85	-90.00	-3,283.08	1,631.32	2,033.16	1,815.80	217.36	9.354		
11,800.00	7,806.95	7,768.95	7,768.95	94.68	155.85	-90.00	-3,283.08	1,631.32	2,118.76	1,902.12	216.64	9.780		
11,900.00	7,806.94	7,768.94	7,768.94	96.36	155.85	-90.00	-3,283.08	1,631.32	2,205.56	1,989.62	215.95	10.213		
12,000.00	7,806.94	7,768.94	7,768.94	98.05	155.85	-90.00	-3,283.08	1,631.32	2,293.45	2,078.15	215.30	10.652		
12,100.00	7,806.94	7,768.94	7,768.94	99.74	155.85	-90.00	-3,283.08	1,631.32	2,382.29	2,167.60	214.69	11.097		
12,200.00	7,806.94	7,768.94	7,768.94	101.44	155.85	-90.00	-3,283.08	1,631.32	2,471.98	2,257.87	214.11	11.546		
12,300.00	7,806.94	7,768.94	7,768.94	103.14	155.85	-90.00	-3,283.08	1,631.32	2,562.43	2,348.87	213.56	11.999		
12,400.00	7,806.94	7,768.94	7,768.94	104.84	155.85	-90.00	-3,283.08	1,631.32	2,653.57	2,440.53	213.04	12.455		
12,500.00	7,806.93	7,768.93	7,768.93	106.54	155.85	-90.00	-3,283.08	1,631.32	2,745.33	2,532.77	212.56	12.916		
12,600.00	7,806.93	7,768.93	7,768.93	108.25	155.85	-90.00	-3,283.08	1,631.32	2,837.64	2,625.54	212.10	13.379		
12,700.00	7,806.93	7,768.93	7,768.93	109.95	155.85	-90.00	-3,283.08	1,631.32	2,930.46	2,718.79	211.67	13.844		
12,800.00	7,806.93	7,768.93	7,768.93	111.66	155.85	-90.00	-3,283.08	1,631.32	3,023.74	2,812.47	211.26	14.313		
12,900.00	7,806.93	7,768.93	7,768.93	113.37	155.85	-90.00	-3,283.08	1,631.32	3,117.43	2,906.55	210.88	14.783		
13,000.00	7,806.93	7,768.93	7,768.93	115.09	155.85	-90.00	-3,283.08	1,631.32	3,211.50	3,000.98	210.52	15.255		
13,100.00	7,806.93	7,768.93	7,768.93	116.80	155.85	-90.00	-3,283.08	1,631.32	3,305.92	3,095.75	210.18	15.729		
13,200.00	7,806.92	7,768.92	7,768.92	118.52	155.85	-90.00	-3,283.08	1,631.32	3,400.67	3,190.81	209.86	16.205		
13,300.00	7,806.92	7,768.92	7,768.92	120.24	155.85	-90.00	-3,283.08	1,631.32	3,495.70	3,286.14	209.56	16.682		
13,400.00	7,806.92	7,768.92	7,768.92	121.96	155.85	-90.00	-3,283.08	1,631.32	3,591.00	3,381.73	209.27	17.160		
13,500.00	7,806.92	7,768.92	7,768.92	123.68	155.85	-90.00	-3,283.08	1,631.32	3,686.55	3,477.56	209.00	17.639		
13,600.00	7,806.92	7,768.92	7,768.92	125.40	155.84	-90.00	-3,283.08	1,631.32	3,782.34	3,573.59	208.74	18.120		
13,700.00	7,806.92	7,768.92	7,768.92	127.12	155.84	-90.00	-3,283.08	1,631.32	3,878.33	3,669.83	208.50	18.601		
13,800.00	7,806.91	7,768.91	7,768.91	128.85	155.84	-90.00	-3,283.08	1,631.32	3,974.52	3,766.25	208.27	19.083		
13,900.00	7,806.91	7,768.91	7,768.91	130.58	155.84	-90.00	-3,283.08	1,631.32	4,070.90	3,862.84	208.06	19.566		
14,000.00	7,806.91	7,768.91	7,768.91	132.30	155.84	-90.00	-3,283.08	1,631.32	4,167.45	3,959.59	207.86	20.050		
14,100.00	7,806.91	7,768.91	7,768.91	134.03	155.84	-90.00	-3,283.08	1,631.32	4,264.15	4,056.49	207.66	20.534		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	7,768.91	7,768.91	135.76	155.84	-90.00	-3,283.08	1,631.32	4,361.01	4,153.52	207.48	21.019		
14,300.00	7,806.91	7,768.91	7,768.91	137.50	155.84	-90.00	-3,283.08	1,631.32	4,458.00	4,250.69	207.31	21.504		
14,400.00	7,806.91	7,768.91	7,768.91	139.23	155.84	-90.00	-3,283.08	1,631.32	4,555.12	4,347.98	207.15	21.990		
14,500.00	7,806.90	7,768.90	7,768.90	140.96	155.84	-90.00	-3,283.08	1,631.32	4,652.37	4,445.37	206.99	22.476		
14,600.00	7,806.90	7,768.90	7,768.90	142.70	155.84	-90.00	-3,283.08	1,631.32	4,749.73	4,542.88	206.85	22.962		
14,700.00	7,806.90	7,768.90	7,768.90	144.43	155.84	-90.00	-3,283.08	1,631.32	4,847.20	4,640.48	206.71	23.449		
14,800.00	7,806.90	7,768.90	7,768.90	146.17	155.84	-90.00	-3,283.08	1,631.32	4,944.76	4,738.18	206.58	23.936		
14,900.00	7,806.90	7,768.90	7,768.90	147.91	155.84	-90.00	-3,283.08	1,631.32	5,042.43	4,835.97	206.46	24.423		
15,000.00	7,806.90	7,768.90	7,768.90	149.64	155.84	-90.00	-3,283.08	1,631.32	5,140.18	4,933.84	206.34	24.911		
15,100.00	7,806.89	7,768.89	7,768.89	151.38	155.84	-90.00	-3,283.08	1,631.32	5,238.02	5,031.78	206.24	25.398		
15,200.00	7,806.89	7,768.89	7,768.89	153.12	155.84	-90.00	-3,283.08	1,631.32	5,335.94	5,129.80	206.13	25.886		
15,300.00	7,806.89	7,768.89	7,768.89	154.86	155.84	-90.00	-3,283.08	1,631.32	5,433.93	5,227.89	206.04	26.374		
15,400.00	7,806.89	7,768.89	7,768.89	156.60	155.84	-90.00	-3,283.08	1,631.32	5,532.00	5,326.05	205.95	26.861		
15,500.00	7,806.89	7,768.89	7,768.89	158.35	155.84	-90.00	-3,283.08	1,631.32	5,630.13	5,424.27	205.86	27.349		
15,600.00	7,806.89	7,768.89	7,768.89	160.09	155.84	-90.00	-3,283.08	1,631.32	5,728.33	5,522.55	205.78	27.837		
15,700.00	7,806.89	7,768.89	7,768.89	161.83	155.84	-90.00	-3,283.08	1,631.32	5,826.59	5,620.88	205.71	28.325		
15,800.00	7,806.88	7,768.88	7,768.88	163.57	155.84	-90.00	-3,283.08	1,631.32	5,924.91	5,719.27	205.64	28.813		
15,900.00	7,806.88	7,768.88	7,768.88	165.32	155.84	-90.00	-3,283.08	1,631.32	6,023.28	5,817.71	205.57	29.300		
16,000.00	7,806.88	7,768.88	7,768.88	167.06	155.84	-90.00	-3,283.08	1,631.32	6,121.71	5,916.20	205.51	29.788		
16,100.00	7,806.88	7,768.88	7,768.88	168.81	155.84	-89.99	-3,283.08	1,631.32	6,220.18	6,014.73	205.45	30.276		
16,200.00	7,806.88	7,768.88	7,768.88	170.56	155.84	-89.99	-3,283.08	1,631.32	6,318.71	6,113.31	205.40	30.763		
16,300.00	7,806.88	7,768.88	7,768.88	172.30	155.84	-89.99	-3,283.08	1,631.32	6,417.28	6,211.93	205.35	31.251		
16,400.00	7,806.87	7,768.87	7,768.87	174.05	155.84	-89.99	-3,283.08	1,631.32	6,515.89	6,310.59	205.30	31.738		
16,500.00	7,806.87	7,768.87	7,768.87	175.80	155.84	-89.99	-3,283.08	1,631.32	6,614.55	6,409.29	205.26	32.225		
16,600.00	7,806.87	7,768.87	7,768.87	177.55	155.84	-89.99	-3,283.08	1,631.32	6,713.24	6,508.02	205.22	32.712		
16,700.00	7,806.87	7,768.87	7,768.87	179.30	155.84	-89.99	-3,283.08	1,631.32	6,811.98	6,606.79	205.19	33.199		
16,800.00	7,806.87	7,768.87	7,768.87	181.04	155.84	-89.99	-3,283.08	1,631.32	6,910.74	6,705.59	205.16	33.685		
16,900.00	7,806.87	7,768.87	7,768.87	182.79	155.84	-89.99	-3,283.08	1,631.32	7,009.55	6,804.42	205.13	34.172		
17,000.00	7,806.87	7,768.87	7,768.87	184.54	155.84	-89.99	-3,283.08	1,631.32	7,108.39	6,903.29	205.10	34.658		
17,100.00	7,806.86	7,768.86	7,768.86	186.30	155.84	-89.99	-3,283.08	1,631.32	7,207.26	7,002.18	205.08	35.144		
17,200.00	7,806.86	7,768.86	7,768.86	188.05	155.84	-89.99	-3,283.08	1,631.32	7,306.16	7,101.10	205.06	35.630		
17,300.00	7,806.86	7,768.86	7,768.86	189.80	155.84	-89.99	-3,283.08	1,631.32	7,405.09	7,200.05	205.04	36.115		
17,400.00	7,806.86	7,768.86	7,768.86	191.55	155.84	-89.99	-3,283.08	1,631.32	7,504.05	7,299.02	205.03	36.600		
17,500.00	7,806.86	7,768.86	7,768.86	193.30	155.84	-89.99	-3,283.08	1,631.32	7,603.03	7,398.02	205.02	37.085		
17,600.00	7,806.86	7,768.86	7,768.86	195.06	155.84	-89.99	-3,283.08	1,631.32	7,702.04	7,497.04	205.01	37.570		
17,700.00	7,806.85	7,768.85	7,768.85	196.81	155.84	-89.99	-3,283.08	1,631.32	7,801.08	7,596.08	205.00	38.054		
17,800.00	7,806.85	7,768.85	7,768.85	198.56	155.84	-89.99	-3,283.08	1,631.32	7,900.14	7,695.15	204.99	38.538		
17,898.35	7,807.00	7,769.00	7,769.00	200.29	155.85	-89.99	-3,283.08	1,631.32	7,997.59	7,792.60	204.99	39.014		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	154.22	-3,286.00	1,586.78	3,649.11					
100.00	100.00	100.00	1,225.65	0.13	2.43	155.04	-3,137.88	1,460.62	3,645.53	3,644.38	1.15	3,175.088		
200.00	200.00	1,327.29	1,299.52	0.49	5.96	155.14	-3,118.20	1,444.74	3,614.08	3,608.30	5.77	625.844		
300.00	300.00	1,420.61	1,388.19	0.85	6.54	155.25	-3,095.04	1,427.13	3,583.55	3,577.15	6.40	560.136		
400.00	400.00	1,615.13	1,571.91	1.21	7.80	155.50	-3,044.85	1,387.58	3,551.73	3,544.21	7.52	472.354		
500.00	500.00	1,729.64	1,679.25	1.57	8.57	155.65	-3,013.13	1,363.42	3,517.62	3,509.31	8.31	423.117		
600.00	600.00	1,792.36	1,738.15	1.93	8.99	155.73	-2,995.74	1,350.70	3,483.94	3,475.04	8.90	391.476		
700.00	700.00	1,854.15	1,796.39	2.29	9.40	155.81	-2,979.13	1,338.45	3,451.19	3,441.70	9.49	363.493		
800.00	800.00	1,928.00	1,866.18	2.64	9.89	155.91	-2,960.01	1,323.68	3,419.27	3,409.12	10.15	336.905		
900.00	900.00	2,017.65	1,950.92	3.00	10.48	156.05	-2,937.51	1,305.00	3,387.73	3,376.85	10.88	311.384		
1,000.00	1,000.00	2,068.89	1,999.40	3.36	10.82	156.14	-2,925.11	1,293.93	3,356.74	3,345.28	11.46	292.974		
1,100.00	1,100.00	2,122.48	2,050.29	3.72	11.16	156.24	-2,912.97	1,282.33	3,327.06	3,315.01	12.05	276.094		
1,200.00	1,200.00	2,302.62	2,220.97	4.08	12.34	156.60	-2,871.54	1,242.37	3,297.08	3,283.90	13.18	250.188		
1,300.00	1,300.00	2,363.36	2,278.41	4.44	12.74	156.72	-2,856.77	1,229.25	3,266.04	3,252.23	13.81	236.520		
1,400.00	1,399.98	2,441.36	2,352.42	4.78	13.25	5.63	-2,838.34	1,212.91	3,234.24	3,219.74	14.50	223.049		
1,500.00	1,499.84	2,527.08	2,433.74	5.11	13.81	5.89	-2,818.27	1,194.72	3,199.31	3,184.09	15.21	210.287		
1,600.00	1,599.45	2,620.74	2,522.79	5.44	14.41	6.17	-2,796.52	1,175.46	3,161.61	3,145.65	15.96	198.103		
1,700.00	1,698.70	2,722.11	2,618.92	5.79	15.07	6.50	-2,772.19	1,154.42	3,119.96	3,103.22	16.73	186.436		
1,800.00	1,797.47	2,786.84	2,680.40	6.15	15.49	6.77	-2,757.03	1,141.04	3,075.77	3,058.40	17.37	177.121		
1,900.00	1,895.62	2,853.22	2,743.65	6.53	15.91	7.07	-2,741.72	1,127.89	3,029.18	3,011.18	18.00	168.293		
1,912.93	1,908.27	2,866.00	2,755.85	6.58	15.99	7.12	-2,738.79	1,125.46	3,022.98	3,004.88	18.10	166.989		
2,000.00	1,993.35	2,931.83	2,818.74	6.93	16.40	7.28	-2,723.64	1,113.25	2,981.20	2,962.53	18.67	159.662		
2,100.00	2,091.07	3,019.76	2,902.81	7.34	16.95	7.49	-2,703.25	1,097.51	2,933.33	2,913.96	19.37	151.410		
2,200.00	2,188.79	3,110.34	2,989.35	7.77	17.51	7.72	-2,682.33	1,080.87	2,885.40	2,865.31	20.09	143.602		
2,300.00	2,286.51	3,250.81	3,123.02	8.20	18.40	8.16	-2,649.88	1,052.43	2,836.96	2,815.95	21.01	135.044		
2,400.00	2,384.23	3,338.41	3,206.07	8.65	18.98	8.44	-2,628.90	1,034.08	2,787.50	2,765.76	21.74	128.217		
2,500.00	2,481.95	3,427.55	3,290.55	9.10	19.57	8.74	-2,607.32	1,015.57	2,737.94	2,715.46	22.48	121.785		
2,600.00	2,579.67	3,492.30	3,351.99	9.56	19.99	8.97	-2,591.85	1,002.16	2,688.72	2,665.58	23.14	116.170		
2,700.00	2,677.39	3,600.12	3,454.37	10.02	20.69	9.36	-2,566.36	979.97	2,639.88	2,615.92	23.96	110.189		
2,800.00	2,775.11	3,692.91	3,542.30	10.49	21.30	9.69	-2,543.39	961.25	2,590.22	2,565.50	24.72	104.779		
2,900.00	2,872.83	3,795.06	3,638.95	10.96	21.98	10.08	-2,518.00	940.05	2,540.37	2,514.85	25.52	99.539		
3,000.00	2,970.55	3,850.40	3,691.32	11.44	22.34	10.31	-2,504.36	928.45	2,490.73	2,464.54	26.18	95.132		
3,100.00	3,068.27	3,907.32	3,745.44	11.92	22.72	10.54	-2,490.99	917.01	2,442.33	2,415.47	26.85	90.952		
3,200.00	3,165.99	4,004.84	3,838.18	12.40	23.34	10.96	-2,468.51	896.90	2,394.25	2,366.59	27.66	86.571		
3,300.00	3,263.71	4,084.34	3,913.73	12.88	23.86	11.34	-2,450.32	880.13	2,346.24	2,317.83	28.42	82.564		
3,400.00	3,361.43	4,176.38	4,001.20	13.37	24.46	11.78	-2,429.22	860.73	2,298.31	2,269.08	29.22	78.651		
3,500.00	3,459.15	4,262.69	4,083.21	13.86	25.02	12.21	-2,409.26	842.70	2,250.36	2,220.35	30.01	74.978		
3,600.00	3,556.87	4,333.39	4,150.50	14.35	25.47	12.57	-2,392.97	828.43	2,202.81	2,172.04	30.76	71.605		
3,700.00	3,654.59	4,412.12	4,225.67	14.84	25.96	12.96	-2,375.15	813.20	2,155.95	2,124.41	31.54	68.356		
3,800.00	3,752.31	4,508.13	4,317.19	15.34	26.57	13.49	-2,353.76	793.60	2,109.20	2,076.82	32.38	65.148		
3,900.00	3,850.03	4,600.07	4,404.69	15.83	27.16	14.02	-2,332.73	774.81	2,062.04	2,028.83	33.21	62.090		
4,000.00	3,947.75	4,696.30	4,496.23	16.33	27.78	14.61	-2,310.82	754.75	2,015.02	1,980.96	34.07	59.148		
4,100.00	4,045.47	4,851.81	4,643.20	16.83	28.82	15.65	-2,272.66	721.25	1,966.57	1,931.51	35.06	56.094		
4,200.00	4,143.19	4,898.41	4,687.23	17.32	29.14	15.97	-2,261.01	711.37	1,917.59	1,881.75	35.84	53.508		
4,300.00	4,240.91	4,972.70	4,757.68	17.82	29.63	16.49	-2,242.92	696.27	1,869.77	1,833.10	36.67	50.983		
4,400.00	4,338.63	5,084.78	4,863.89	18.32	30.37	17.29	-2,215.18	673.63	1,821.90	1,784.31	37.58	48.476		
4,500.00	4,436.35	5,195.07	4,967.74	18.82	31.12	18.16	-2,186.16	650.48	1,772.56	1,734.06	38.50	46.039		
4,600.00	4,534.07	5,276.34	5,044.11	19.33	31.68	18.84	-2,164.37	633.24	1,722.99	1,683.59	39.40	43.731		
4,700.00	4,631.79	5,347.78	5,111.30	19.83	32.18	19.49	-2,145.64	617.77	1,674.08	1,633.76	40.31	41.529		
4,800.00	4,729.51	5,426.70	5,185.75	20.33	32.72	20.23	-2,125.58	600.97	1,626.15	1,584.90	41.25	39.421		
4,900.00	4,827.23	5,517.47	5,271.25	20.83	33.33	21.13	-2,102.21	581.38	1,578.16	1,535.94	42.23	37.375		
5,000.00	4,924.95	5,592.74	5,342.29	21.34	33.85	21.91	-2,082.99	565.57	1,530.78	1,487.57	43.20	35.431		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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					
5,100.00	5,022.67	5,671.25	5,416.59	21.84	34.37	22.75	-2,063.24	549.67	1,484.17	1,439.97	44.20	33.579					
5,200.00	5,120.39	5,765.18	5,505.38	22.35	35.00	23.83	-2,039.71	530.03	1,437.89	1,392.64	45.25	31.780					
5,300.00	5,218.11	5,855.28	5,590.26	22.85	35.62	24.98	-2,016.88	510.23	1,391.59	1,345.25	46.34	30.032					
5,400.00	5,315.83	5,929.13	5,659.96	23.36	36.11	25.96	-1,998.22	494.53	1,345.90	1,298.46	47.44	28.369					
5,500.00	5,413.55	6,000.30	5,727.42	23.86	36.58	26.93	-1,980.85	479.96	1,301.54	1,252.97	48.57	26.796					
5,600.00	5,511.27	6,072.13	5,795.71	24.37	37.05	27.96	-1,964.18	465.18	1,258.72	1,208.98	49.74	25.307					
5,700.00	5,608.99	6,148.25	5,868.41	24.88	37.53	29.07	-1,947.16	450.39	1,217.31	1,166.38	50.93	23.903					
5,800.00	5,706.71	6,223.52	5,940.52	25.38	37.99	30.21	-1,931.00	436.07	1,177.30	1,125.15	52.15	22.577					
5,900.00	5,804.43	6,302.62	6,016.54	25.89	38.45	31.46	-1,914.74	421.45	1,138.75	1,085.35	53.39	21.328					
6,000.00	5,902.15	6,384.53	6,095.71	26.40	38.92	32.72	-1,898.42	408.27	1,101.42	1,046.79	54.63	20.160					
6,100.00	5,999.87	6,467.06	6,175.74	26.91	39.37	34.01	-1,882.48	395.92	1,065.25	1,009.36	55.89	19.059					
6,200.00	6,097.59	6,544.50	6,250.97	27.42	39.78	35.27	-1,868.11	384.51	1,030.42	973.25	57.18	18.022					
6,300.00	6,195.30	6,614.49	6,319.24	27.92	40.13	36.45	-1,856.39	374.50	997.88	939.41	58.47	17.065					
6,400.00	6,293.02	6,688.99	6,392.23	28.43	40.49	37.71	-1,845.36	364.43	967.78	908.00	59.78	16.190					
6,500.00	6,390.74	6,777.56	6,479.28	28.94	40.90	39.24	-1,833.42	353.28	939.50	878.40	61.11	15.375					
6,600.00	6,488.46	6,868.15	6,568.48	29.45	41.29	40.81	-1,821.47	342.96	912.07	849.63	62.44	14.607					
6,638.14	6,525.73	6,902.67	6,602.56	29.64	41.44	41.39	-1,817.08	339.61	901.86	838.92	62.94	14.329					
6,700.00	6,586.32	6,958.66	6,657.87	29.95	41.67	42.09	-1,810.10	334.47	886.09	822.35	63.74	13.902					
6,800.00	6,684.79	7,042.81	6,741.09	30.42	42.01	43.08	-1,800.15	327.00	863.65	798.68	64.97	13.292					
6,900.00	6,783.81	7,122.96	6,820.49	30.85	42.32	43.97	-1,791.98	319.66	845.82	779.68	66.14	12.789					
7,000.00	6,883.25	7,204.30	6,901.28	31.24	42.61	44.76	-1,785.55	312.86	832.85	765.67	67.19	12.396					
7,100.00	6,983.00	7,289.45	6,986.09	31.60	42.89	45.43	-1,780.68	306.91	824.34	756.24	68.10	12.105					
7,200.00	7,082.93	7,375.03	7,071.47	31.92	43.14	45.91	-1,777.55	301.96	820.06	751.18	68.87	11.907					
7,248.16	7,131.09	7,415.16	7,111.52	32.05	43.25	46.09	-1,776.67	299.69	819.54	750.35	69.19	11.845					
7,251.07	7,134.00	7,417.58	7,113.93	32.06	43.26	-162.60	-1,776.62	299.55	819.54	750.33	69.21	11.842					
7,300.00	7,182.93	7,458.66	7,154.94	32.19	43.37	-162.43	-1,776.11	297.07	819.85	750.34	69.51	11.794					
7,351.07	7,234.00	7,510.68	7,206.88	32.32	43.50	-162.23	-1,775.79	294.27	820.38	750.52	69.86	11.743					
7,400.00	7,282.87	7,561.70	7,257.86	32.47	43.62	18.34	-1,775.66	292.34	818.85	748.64	70.20	11.664					
7,450.00	7,332.44	7,618.43	7,314.57	32.67	43.75	18.79	-1,775.38	290.91	812.89	742.29	70.60	11.514					
7,500.00	7,381.26	7,670.16	7,366.29	32.90	43.87	19.47	-1,774.89	290.15	802.52	731.50	71.01	11.301					
7,550.00	7,428.96	7,717.10	7,413.23	33.18	43.98	20.38	-1,774.50	289.68	788.18	716.73	71.45	11.032					
7,600.00	7,475.17	7,762.41	7,458.54	33.48	44.08	21.59	-1,774.22	289.39	770.05	698.14	71.91	10.708					
7,650.00	7,519.55	7,805.78	7,501.91	33.82	44.17	23.17	-1,774.03	289.17	748.34	675.93	72.41	10.334					
7,700.00	7,561.76	7,847.09	7,543.22	34.20	44.26	25.19	-1,773.92	289.01	723.24	650.29	72.96	9.913					
7,750.00	7,601.47	7,886.03	7,582.16	34.60	44.34	27.76	-1,773.87	288.90	695.01	621.46	73.55	9.450					
7,800.00	7,638.39	7,922.32	7,618.45	35.04	44.42	31.00	-1,773.88	288.83	663.92	589.73	74.19	8.949					
7,850.00	7,672.23	7,956.12	7,652.24	35.50	44.49	35.10	-1,773.93	288.80	630.30	555.40	74.89	8.416					
7,900.00	7,702.74	7,986.69	7,682.82	35.99	44.55	40.20	-1,773.99	288.82	594.51	518.85	75.66	7.857					
7,950.00	7,729.67	8,013.76	7,709.89	36.50	44.60	46.43	-1,774.06	288.87	557.01	480.49	76.52	7.279					
8,000.00	7,752.84	8,037.10	7,733.23	37.04	44.65	53.76	-1,774.14	288.95	518.29	440.83	77.47	6.690					
8,050.00	7,772.06	8,056.54	7,752.67	37.60	44.69	61.95	-1,774.21	289.03	478.97	400.44	78.53	6.099					
8,100.00	7,787.18	8,071.91	7,768.04	38.17	44.72	70.41	-1,774.27	289.10	439.74	360.04	79.70	5.517					
8,150.00	7,798.10	8,083.09	7,779.22	38.76	44.74	78.36	-1,774.32	289.16	401.45	320.48	80.97	4.958					
8,200.00	7,804.72	8,089.98	7,786.10	39.36	44.76	85.06	-1,774.35	289.20	365.12	282.83	82.29	4.437					
8,251.15	7,807.00	8,092.51	7,788.64	39.97	44.76	90.14	-1,774.36	289.22	331.26	247.73	83.53	3.966					
8,300.00	7,807.00	8,092.74	7,788.87	40.56	44.76	90.19	-1,774.36	289.22	303.43	219.03	84.39	3.595					
8,400.00	7,807.00	8,093.21	7,789.34	41.80	44.76	90.30	-1,774.36	289.22	266.07	182.43	83.64	3.181 SF					
8,456.39	7,807.00	8,093.48	7,789.60	42.52	44.76	90.35	-1,774.36	289.22	260.02	179.06	80.96	3.212 CC, ES					
8,500.00	7,807.00	8,093.69	7,789.81	43.08	44.76	90.40	-1,774.36	289.23	263.65	185.72	77.93	3.383					
8,600.00	7,806.99	8,094.16	7,790.29	44.40	44.76	90.50	-1,774.37	289.23	297.05	226.49	70.56	4.210					
8,700.00	7,806.99	8,094.64	7,790.76	45.74	44.77	90.61	-1,774.37	289.23	356.31	290.57	65.74	5.420					
8,800.00	7,806.99	8,095.12	7,791.24	47.11	44.77	90.72	-1,774.37	289.23	430.91	367.37	63.54	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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	8,095.60	7,791.73	48.51	44.77	90.82	-1,774.37	289.24	514.20	451.46	62.74	8.196		
9,000.00	7,806.99	8,096.09	7,792.21	49.93	44.77	90.93	-1,774.38	289.24	602.60	540.03	62.57	9.631		
9,100.00	7,806.99	8,096.57	7,792.70	51.38	44.77	91.04	-1,774.38	289.24	694.15	631.48	62.66	11.077		
9,200.00	7,806.99	8,097.06	7,793.19	52.84	44.77	91.14	-1,774.38	289.25	787.76	724.89	62.87	12.531		
9,300.00	7,806.98	8,097.55	7,793.68	54.32	44.77	91.25	-1,774.38	289.25	882.77	819.66	63.11	13.989		
9,400.00	7,806.98	8,098.04	7,794.17	55.82	44.77	91.36	-1,774.39	289.25	978.77	915.42	63.35	15.450		
9,500.00	7,806.98	8,098.54	7,794.66	57.34	44.77	91.47	-1,774.39	289.26	1,075.51	1,011.92	63.59	16.914		
9,600.00	7,806.98	8,099.04	7,795.16	58.87	44.77	91.58	-1,774.39	289.26	1,172.79	1,108.98	63.81	18.379		
9,700.00	7,806.98	8,099.54	7,795.66	60.41	44.78	91.69	-1,774.39	289.26	1,270.49	1,206.47	64.02	19.845		
9,800.00	7,806.98	8,100.04	7,796.16	61.96	44.78	91.80	-1,774.39	289.27	1,368.53	1,304.31	64.22	21.312		
9,900.00	7,806.97	8,100.54	7,796.67	63.53	44.78	91.91	-1,774.40	289.27	1,466.83	1,402.43	64.40	22.778		
10,000.00	7,806.97	8,101.05	7,797.17	65.10	44.78	92.02	-1,774.40	289.27	1,565.34	1,500.78	64.57	24.244		
10,100.00	7,806.97	8,101.56	7,797.68	66.69	44.78	92.13	-1,774.40	289.28	1,664.04	1,599.31	64.72	25.710		
10,200.00	7,806.97	8,102.07	7,798.19	68.29	44.78	92.25	-1,774.40	289.28	1,762.88	1,698.01	64.87	27.175		
10,300.00	7,806.97	8,102.58	7,798.71	69.89	44.78	92.36	-1,774.41	289.28	1,861.84	1,796.83	65.01	28.639		
10,400.00	7,806.97	8,103.10	7,799.22	71.50	44.78	92.47	-1,774.41	289.29	1,960.91	1,895.77	65.14	30.101		
10,500.00	7,806.97	8,103.62	7,799.74	73.12	44.78	92.59	-1,774.41	289.29	2,060.07	1,994.80	65.27	31.563		
10,600.00	7,806.96	8,104.14	7,800.26	74.75	44.79	92.70	-1,774.41	289.29	2,159.30	2,093.91	65.39	33.023		
10,700.00	7,806.96	8,104.66	7,800.79	76.38	44.79	92.82	-1,774.42	289.30	2,258.61	2,193.10	65.50	34.481		
10,800.00	7,806.96	8,105.19	7,801.31	78.02	44.79	92.93	-1,774.42	289.30	2,357.97	2,292.35	65.61	35.937		
10,900.00	7,806.96	8,105.71	7,801.84	79.66	44.79	93.05	-1,774.42	289.30	2,457.38	2,391.66	65.72	37.392		
11,000.00	7,806.96	8,106.24	7,802.37	81.31	44.79	93.16	-1,774.43	289.31	2,556.84	2,491.02	65.82	38.845		
11,100.00	7,806.96	8,106.78	7,802.90	82.97	44.79	93.28	-1,774.43	289.31	2,656.34	2,590.42	65.92	40.296		
11,200.00	7,806.95	8,107.31	7,803.44	84.63	44.79	93.40	-1,774.43	289.31	2,755.88	2,689.86	66.02	41.744		
11,300.00	7,806.95	8,107.85	7,803.97	86.29	44.79	93.52	-1,774.43	289.32	2,855.44	2,789.33	66.11	43.191		
11,400.00	7,806.95	8,108.39	7,804.52	87.96	44.79	93.64	-1,774.44	289.32	2,955.04	2,888.84	66.20	44.635		
11,500.00	7,806.95	8,108.93	7,805.06	89.64	44.79	93.76	-1,774.44	289.33	3,054.67	2,988.37	66.29	46.077		
11,600.00	7,806.95	8,109.48	7,805.60	91.31	44.80	93.88	-1,774.44	289.33	3,154.31	3,087.93	66.38	47.517		
11,700.00	7,806.95	8,110.03	7,806.15	92.99	44.80	94.00	-1,774.44	289.33	3,253.98	3,187.51	66.47	48.954		
11,800.00	7,806.95	8,110.58	7,806.70	94.68	44.80	94.12	-1,774.45	289.34	3,353.67	3,287.11	66.56	50.389		
11,900.00	7,806.94	8,111.13	7,807.26	96.36	44.80	94.24	-1,774.45	289.34	3,453.38	3,386.74	66.64	51.821		
12,000.00	7,806.94	8,111.69	7,807.81	98.05	44.80	94.36	-1,774.45	289.34	3,553.10	3,486.38	66.72	53.251		
12,100.00	7,806.94	8,112.25	7,808.37	99.74	44.80	94.48	-1,774.46	289.35	3,652.84	3,586.03	66.81	54.678		
12,200.00	7,806.94	8,112.81	7,808.93	101.44	44.80	94.61	-1,774.46	289.35	3,752.59	3,685.70	66.89	56.102		
12,300.00	7,806.94	8,113.37	7,809.50	103.14	44.80	94.73	-1,774.46	289.36	3,852.35	3,785.38	66.97	57.524		
12,400.00	7,806.94	8,113.94	7,810.06	104.84	44.80	94.85	-1,774.46	289.36	3,952.13	3,885.08	67.05	58.943		
12,500.00	7,806.93	8,114.51	7,810.63	106.54	44.81	94.98	-1,774.47	289.36	4,051.92	3,984.79	67.13	60.359		
12,600.00	7,806.93	8,115.08	7,811.20	108.25	44.81	95.10	-1,774.47	289.37	4,151.71	4,084.50	67.21	61.772		
12,700.00	7,806.93	8,115.65	7,811.78	109.95	44.81	95.23	-1,774.47	289.37	4,251.52	4,184.23	67.29	63.182		
12,800.00	7,806.93	8,116.23	7,812.36	111.66	44.81	95.36	-1,774.48	289.38	4,351.34	4,283.97	67.37	64.589		
12,900.00	7,806.93	8,116.81	7,812.94	113.37	44.81	95.48	-1,774.48	289.38	4,451.16	4,383.71	67.45	65.993		
13,000.00	7,806.93	8,117.40	7,813.52	115.09	44.81	95.61	-1,774.48	289.39	4,550.99	4,483.46	67.53	67.394		
13,100.00	7,806.93	8,117.98	7,814.11	116.80	44.81	95.74	-1,774.48	289.39	4,650.83	4,583.22	67.61	68.792		
13,200.00	7,806.92	8,118.57	7,814.70	118.52	44.81	95.87	-1,774.49	289.39	4,750.68	4,682.99	67.69	70.186		
13,300.00	7,806.92	8,119.16	7,815.29	120.24	44.82	96.00	-1,774.49	289.40	4,850.53	4,782.76	67.77	71.578		
13,400.00	7,806.92	8,119.76	7,815.88	121.96	44.82	96.13	-1,774.49	289.40	4,950.39	4,882.54	67.84	72.966		
13,500.00	7,806.92	8,120.36	7,816.48	123.68	44.82	96.26	-1,774.50	289.41	5,050.25	4,982.33	67.92	74.351		
13,600.00	7,806.92	8,120.96	7,817.08	125.40	44.82	96.39	-1,774.50	289.41	5,150.12	5,082.12	68.00	75.733		
13,700.00	7,806.92	8,121.56	7,817.69	127.12	44.82	96.52	-1,774.50	289.42	5,249.99	5,181.91	68.08	77.112		
13,800.00	7,806.91	8,122.17	7,818.29	128.85	44.82	96.65	-1,774.51	289.42	5,349.87	5,281.71	68.16	78.487		
13,900.00	7,806.91	8,122.78	7,818.90	130.58	44.82	96.78	-1,774.51	289.43	5,449.75	5,381.51	68.24	79.859		
14,000.00	7,806.91	8,123.39	7,819.52	132.30	44.82	96.92	-1,774.51	289.43	5,549.64	5,481.32	68.32	81.227		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 16-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,100.00	7,806.91	8,124.01	7,820.13	134.03	44.83	97.05	-1,774.52	289.43	5,649.53	5,581.13	68.40	82.592		
14,200.00	7,806.91	8,124.63	7,820.75	135.76	44.83	97.19	-1,774.52	289.44	5,749.42	5,680.94	68.48	83.953		
14,300.00	7,806.91	8,125.25	7,821.37	137.50	44.83	97.32	-1,774.52	289.44	5,849.32	5,780.76	68.56	85.311		
14,400.00	7,806.91	8,125.87	7,822.00	139.23	44.83	97.46	-1,774.53	289.45	5,949.22	5,880.58	68.65	86.665		
14,500.00	7,806.90	8,126.50	7,822.63	140.96	44.83	97.59	-1,774.53	289.45	6,049.13	5,980.40	68.73	88.016		
14,600.00	7,806.90	8,127.13	7,823.26	142.70	44.83	97.73	-1,774.53	289.46	6,149.04	6,080.23	68.81	89.363		
14,700.00	7,806.90	8,127.77	7,823.89	144.43	44.83	97.87	-1,774.54	289.46	6,248.95	6,180.06	68.89	90.707		
14,800.00	7,806.90	8,128.41	7,824.53	146.17	44.83	98.01	-1,774.54	289.47	6,348.86	6,279.89	68.97	92.047		
14,900.00	7,806.90	8,129.05	7,825.17	147.91	44.84	98.14	-1,774.54	289.47	6,448.78	6,379.72	69.06	93.383		
15,000.00	7,806.90	8,129.69	7,825.82	149.64	44.84	98.28	-1,774.55	289.48	6,548.69	6,479.55	69.14	94.716		
15,100.00	7,806.89	8,130.34	7,826.47	151.38	44.84	98.42	-1,774.55	289.48	6,648.62	6,579.39	69.22	96.045		
15,200.00	7,806.89	8,130.99	7,827.12	153.12	44.84	98.56	-1,774.55	289.49	6,748.54	6,679.23	69.31	97.370		
15,300.00	7,806.89	8,131.65	7,827.77	154.86	44.84	98.71	-1,774.56	289.49	6,848.46	6,779.07	69.39	98.692		
15,400.00	7,806.89	8,132.31	7,828.43	156.60	44.84	98.85	-1,774.56	289.50	6,948.39	6,878.91	69.48	100.009		
15,500.00	7,806.89	8,132.97	7,829.09	158.35	44.84	98.99	-1,774.56	289.50	7,048.32	6,978.76	69.56	101.323		
15,600.00	7,806.89	8,133.63	7,829.76	160.09	44.84	99.13	-1,774.57	289.51	7,148.25	7,078.60	69.65	102.633		
15,700.00	7,806.89	8,134.30	7,830.43	161.83	44.85	99.28	-1,774.57	289.52	7,248.18	7,178.45	69.73	103.940		
15,800.00	7,806.88	8,134.98	7,831.10	163.57	44.85	99.42	-1,774.58	289.52	7,348.12	7,278.30	69.82	105.242		
15,900.00	7,806.88	8,135.65	7,831.77	165.32	44.85	99.57	-1,774.58	289.53	7,448.06	7,378.15	69.91	106.541		
16,000.00	7,806.88	8,136.33	7,832.45	167.06	44.85	99.71	-1,774.58	289.53	7,547.99	7,478.00	70.00	107.835		
16,100.00	7,806.88	8,137.01	7,833.14	168.81	44.85	99.86	-1,774.59	289.54	7,647.93	7,577.85	70.08	109.126		
16,200.00	7,806.88	8,137.70	7,833.82	170.56	44.85	100.01	-1,774.59	289.54	7,747.88	7,677.70	70.17	110.413		
16,300.00	7,806.88	8,138.39	7,834.51	172.30	44.85	100.16	-1,774.59	289.55	7,847.82	7,777.56	70.26	111.696		
16,400.00	7,806.87	8,139.08	7,835.21	174.05	44.86	100.30	-1,774.60	289.55	7,947.76	7,877.41	70.35	112.975		
16,500.00	7,806.87	8,139.78	7,835.91	175.80	44.86	100.45	-1,774.60	289.56	8,047.71	7,977.27	70.44	114.250		
16,600.00	7,806.87	8,140.48	7,836.61	177.55	44.86	100.60	-1,774.61	289.57	8,147.66	8,077.13	70.53	115.521		
16,700.00	7,806.87	8,141.19	7,837.31	179.30	44.86	100.75	-1,774.61	289.57	8,247.60	8,176.98	70.62	116.788		
16,800.00	7,806.87	8,141.90	7,838.02	181.04	44.86	100.90	-1,774.61	289.58	8,347.55	8,276.84	70.71	118.051		
16,900.00	7,806.87	8,142.61	7,838.73	182.79	44.86	101.06	-1,774.62	289.58	8,447.50	8,376.70	70.80	119.310		
17,000.00	7,806.87	8,143.33	7,839.45	184.54	44.86	101.21	-1,774.62	289.59	8,547.45	8,476.56	70.89	120.565		
17,100.00	7,806.86	8,144.05	7,840.17	186.30	44.87	101.36	-1,774.63	289.60	8,647.41	8,576.42	70.99	121.816		
17,200.00	7,806.86	8,144.77	7,840.89	188.05	44.87	101.52	-1,774.63	289.60	8,747.36	8,676.28	71.08	123.063		
17,300.00	7,806.86	8,145.50	7,841.62	189.80	44.87	101.67	-1,774.64	289.61	8,847.31	8,776.14	71.17	124.306		
17,400.00	7,806.86	8,146.23	7,842.36	191.55	44.87	101.83	-1,774.64	289.61	8,947.27	8,876.00	71.27	125.545		
17,500.00	7,806.86	8,146.97	7,843.09	193.30	44.87	101.98	-1,774.64	289.62	9,047.23	8,975.87	71.36	126.780		
17,600.00	7,806.86	8,147.71	7,843.83	195.06	44.87	102.14	-1,774.65	289.63	9,147.18	9,075.73	71.46	128.011		
17,700.00	7,806.85	8,148.45	7,844.58	196.81	44.87	102.29	-1,774.65	289.63	9,247.14	9,175.59	71.55	129.238		
17,800.00	7,806.85	8,149.20	7,845.33	198.56	44.88	102.45	-1,774.66	289.64	9,347.10	9,275.45	71.65	130.460		
17,898.35	7,807.00	8,150.13	7,846.26	200.29	44.88	102.62	-1,774.66	289.65	9,445.41	9,373.67	71.74	131.658		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1200-MVWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	20.00	-20.00	0.00	0.04	153.19	-3,285.63	1,660.17	3,681.24					
100.00	100.00	80.00	80.00	0.13	0.14	153.19	-3,285.63	1,660.17	3,681.24	3,680.96	0.28	N/A		
200.00	200.00	180.00	180.00	0.49	0.32	153.19	-3,285.63	1,660.17	3,681.24	3,680.43	0.81	4,537.897		
300.00	300.00	280.00	280.00	0.85	0.50	153.19	-3,285.63	1,660.17	3,681.24	3,679.89	1.35	2,733.852		
400.00	400.00	380.00	380.00	1.21	0.67	153.19	-3,285.63	1,660.17	3,681.24	3,679.36	1.88	1,956.174		
500.00	500.00	480.00	480.00	1.57	0.85	153.19	-3,285.63	1,660.17	3,681.24	3,678.82	2.42	1,522.951		
600.00	600.00	580.00	580.00	1.93	1.03	153.19	-3,285.63	1,660.17	3,681.24	3,678.29	2.95	1,246.824		
700.00	700.00	680.00	680.00	2.29	1.20	153.19	-3,285.63	1,660.17	3,681.24	3,677.75	3.49	1,055.459		
800.00	800.00	780.00	780.00	2.64	1.38	153.19	-3,285.63	1,660.17	3,681.24	3,677.22	4.02	915.019		
900.00	900.00	880.00	880.00	3.00	1.56	153.19	-3,285.63	1,660.17	3,681.24	3,676.68	4.56	807.565		
1,000.00	1,000.00	980.00	980.00	3.36	1.73	153.19	-3,285.63	1,660.17	3,681.24	3,676.14	5.09	722.696		
1,100.00	1,100.00	1,080.00	1,080.00	3.72	1.91	153.19	-3,285.63	1,660.17	3,681.24	3,675.61	5.63	653.968		
1,200.00	1,200.00	1,180.00	1,180.00	4.08	2.09	153.19	-3,285.63	1,660.17	3,681.24	3,675.07	6.16	597.177		
1,300.00	1,300.00	1,280.00	1,280.00	4.44	2.26	153.19	-3,285.63	1,660.17	3,681.24	3,674.54	6.70	549.462		
1,400.00	1,399.98	1,283.83	1,283.82	4.78	2.43	1.91	-3,286.85	1,660.17	3,681.84	3,674.64	7.20	511.353		
1,500.00	1,499.84	1,330.38	1,330.34	5.11	2.59	1.92	-3,288.59	1,660.17	3,679.95	3,672.26	7.69	478.289		
1,600.00	1,599.45	1,376.91	1,376.80	5.44	2.76	1.94	-3,291.09	1,660.17	3,676.02	3,667.83	8.19	448.829		
1,700.00	1,698.70	1,450.00	1,449.68	5.79	3.03	1.99	-3,296.53	1,660.17	3,670.26	3,661.47	8.79	417.749		
1,800.00	1,797.47	1,487.02	1,486.55	6.15	3.18	2.03	-3,299.88	1,659.98	3,661.96	3,652.69	9.27	395.108		
1,900.00	1,895.62	1,573.21	1,572.26	6.53	3.55	2.13	-3,308.70	1,657.98	3,650.93	3,640.97	9.96	366.469		
1,912.93	1,908.27	1,584.30	1,583.28	6.58	3.60	2.15	-3,309.94	1,657.56	3,649.28	3,639.22	10.05	362.957		
2,000.00	1,993.35	1,658.79	1,657.14	6.93	3.93	2.28	-3,318.84	1,653.86	3,638.12	3,627.46	10.66	341.209		
2,100.00	2,091.07	1,743.85	1,741.19	7.34	4.31	2.46	-3,330.28	1,647.68	3,625.68	3,614.32	11.37	318.935		
2,200.00	2,188.79	1,828.24	1,824.22	7.77	4.69	2.68	-3,342.96	1,639.49	3,613.67	3,601.59	12.08	299.165		
2,300.00	2,286.51	1,911.84	1,906.04	8.20	5.07	2.93	-3,356.80	1,629.35	3,602.10	3,589.31	12.79	281.564		
2,400.00	2,384.23	1,994.52	1,986.46	8.65	5.44	3.22	-3,371.75	1,617.36	3,591.04	3,577.53	13.51	265.841		
2,500.00	2,481.95	2,558.25	2,029.98	9.10	8.61	3.20	-3,373.69	1,620.20	3,579.05	3,562.15	16.90	211.833		
2,600.00	2,579.67	2,464.38	2,118.18	9.56	7.97	3.71	-3,396.39	1,597.50	3,569.95	3,553.32	16.64	214.581		
2,700.00	2,677.39	2,370.52	2,206.39	10.02	7.34	4.22	-3,419.09	1,574.80	3,561.17	3,544.78	16.39	217.329		
2,800.00	2,775.11	2,317.35	2,294.59	10.49	6.98	4.73	-3,441.80	1,552.10	3,552.70	3,536.29	16.40	216.567		
2,900.00	2,872.83	2,411.21	2,382.80	10.96	7.61	5.24	-3,464.50	1,529.40	3,544.54	3,527.17	17.37	204.050		
3,000.00	2,970.55	2,505.08	2,471.00	11.44	8.25	5.75	-3,487.20	1,506.70	3,536.70	3,518.36	18.34	192.844		
3,100.00	3,068.27	2,598.94	2,559.20	11.92	8.89	6.27	-3,509.90	1,484.00	3,529.18	3,509.87	19.31	182.766		
3,200.00	3,165.99	2,692.81	2,647.41	12.40	9.53	6.78	-3,532.61	1,461.30	3,521.98	3,501.70	20.28	173.663		
3,300.00	3,263.71	2,786.67	2,735.61	12.88	10.18	7.30	-3,555.31	1,438.60	3,515.11	3,493.86	21.25	165.406		
3,400.00	3,361.43	2,880.54	2,823.82	13.37	10.83	7.82	-3,578.01	1,415.90	3,508.56	3,486.34	22.22	157.890		
3,500.00	3,459.15	2,974.40	2,912.02	13.86	11.48	8.34	-3,600.71	1,393.21	3,502.34	3,479.15	23.19	151.023		
3,600.00	3,556.87	3,068.26	3,000.23	14.35	12.13	8.87	-3,623.42	1,370.51	3,496.45	3,472.29	24.16	144.728		
3,700.00	3,654.59	3,162.13	3,088.43	14.84	12.79	9.39	-3,646.12	1,347.81	3,490.89	3,465.76	25.13	138.940		
3,800.00	3,752.31	3,255.99	3,176.63	15.34	13.44	9.92	-3,668.82	1,325.11	3,485.66	3,459.57	26.09	133.603		
3,900.00	3,850.03	3,349.86	3,264.84	15.83	14.10	10.45	-3,691.52	1,302.41	3,480.77	3,453.71	27.05	128.668		
4,000.00	3,947.75	3,443.72	3,353.04	16.33	14.75	10.98	-3,714.22	1,279.71	3,476.21	3,448.19	28.01	124.095		
4,100.00	4,045.47	3,537.59	3,441.25	16.83	15.41	11.51	-3,736.93	1,257.01	3,471.98	3,443.01	28.97	119.846		
4,200.00	4,143.19	3,631.45	3,529.45	17.32	16.07	12.04	-3,759.63	1,234.31	3,468.10	3,438.17	29.93	115.890		
4,300.00	4,240.91	3,725.32	3,617.65	17.82	16.72	12.57	-3,782.33	1,211.61	3,464.55	3,433.67	30.88	112.199		
4,400.00	4,338.63	3,819.18	3,705.86	18.32	17.38	13.11	-3,805.03	1,188.91	3,461.35	3,429.52	31.83	108.750		
4,500.00	4,436.35	3,913.05	3,794.06	18.82	18.04	13.64	-3,827.74	1,166.21	3,458.48	3,425.70	32.78	105.520		
4,600.00	4,534.07	4,006.91	3,882.27	19.33	18.70	14.18	-3,850.44	1,143.51	3,455.96	3,422.24	33.72	102.490		
4,700.00	4,631.79	4,100.78	3,970.47	19.83	19.36	14.71	-3,873.14	1,120.81	3,453.78	3,419.12	34.66	99.644		
4,800.00	4,729.51	4,194.64	4,058.68	20.33	20.02	15.25	-3,895.84	1,098.12	3,451.94	3,416.34	35.60	96.967		
4,900.00	4,827.23	4,288.51	4,146.88	20.83	20.68	15.79	-3,918.54	1,075.42	3,450.44	3,413.91	36.53	94.444		
5,000.00	4,924.95	4,382.37	4,235.08	21.34	21.34	16.33	-3,941.25	1,052.72	3,449.30	3,411.83	37.47	92.065		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,100.00	5,022.67	4,476.24	4,323.29	21.84	22.00	16.86	-3,963.95	1,030.02	3,448.49	3,410.10	38.39	89.817		
5,200.00	5,120.39	4,570.10	4,411.49	22.35	22.66	17.40	-3,986.65	1,007.32	3,448.03	3,408.71	39.32	87.692		
5,283.47	5,201.95	4,648.45	4,485.11	22.77	23.21	17.85	-4,005.60	988.37	3,447.91	3,407.82	40.09	86.005		
5,300.00	5,218.11	4,663.97	4,499.70	22.85	23.32	17.94	-4,009.35	984.62	3,447.91	3,407.67	40.24	85.680		
5,400.00	5,315.83	4,757.83	4,587.90	23.36	23.98	18.48	-4,032.06	961.92	3,448.14	3,406.98	41.16	83.773		
5,500.00	5,413.55	4,851.70	4,676.10	23.86	24.64	19.01	-4,054.76	939.22	3,448.72	3,406.64	42.08	81.965		
5,600.00	5,511.27	4,945.56	4,764.31	24.37	25.31	19.55	-4,077.46	916.52	3,449.64	3,406.65	42.99	80.247		
5,700.00	5,608.99	5,039.43	4,852.51	24.88	25.97	20.09	-4,100.16	893.82	3,450.90	3,407.00	43.90	78.615		
5,800.00	5,706.71	5,133.29	4,940.72	25.38	26.63	20.63	-4,122.86	871.12	3,452.51	3,407.71	44.80	77.063		
5,900.00	5,804.43	5,227.16	5,028.92	25.89	27.29	21.16	-4,145.57	848.42	3,454.46	3,408.76	45.70	75.585		
6,000.00	5,902.15	5,321.02	5,117.12	26.40	27.95	21.70	-4,168.27	825.72	3,456.75	3,410.15	46.60	74.177		
6,100.00	5,999.87	5,414.89	5,205.33	26.91	28.61	22.23	-4,190.97	803.03	3,459.39	3,411.89	47.50	72.835		
6,200.00	6,097.59	5,508.75	5,293.53	27.42	29.28	22.77	-4,213.67	780.33	3,462.37	3,413.98	48.39	71.555		
6,300.00	6,195.30	5,602.62	5,381.74	27.92	29.94	23.30	-4,236.38	757.63	3,465.69	3,416.41	49.28	70.332		
6,400.00	6,293.02	5,696.48	5,469.94	28.43	30.60	23.83	-4,259.08	734.93	3,469.34	3,419.18	50.16	69.165		
6,500.00	6,390.74	5,790.35	5,558.15	28.94	31.26	24.37	-4,281.78	712.23	3,473.34	3,422.30	51.04	68.049		
6,600.00	6,488.46	5,937.10	5,696.52	29.45	31.98	25.18	-4,316.35	677.66	3,477.12	3,425.06	52.06	66.788		
6,638.14	6,525.73	5,999.33	5,755.55	29.64	32.26	25.51	-4,330.26	663.76	3,478.17	3,425.71	52.47	66.292		
6,700.00	6,586.32	6,101.14	5,852.59	29.95	32.71	26.05	-4,352.04	641.98	3,479.99	3,426.87	53.13	65.504		
6,800.00	6,684.79	6,268.12	6,012.88	30.42	33.47	26.85	-4,385.11	608.92	3,484.11	3,429.92	54.19	64.298		
6,900.00	6,783.81	6,437.83	6,177.12	30.85	34.23	27.59	-4,415.32	578.71	3,489.54	3,434.30	55.24	63.172		
7,000.00	6,883.25	6,609.99	6,344.95	31.24	35.01	28.24	-4,442.43	551.60	3,496.15	3,439.88	56.28	62.124		
7,100.00	6,983.00	6,784.27	6,515.94	31.60	35.79	28.80	-4,466.24	527.79	3,503.82	3,446.53	57.30	61.153		
7,200.00	7,082.93	6,960.35	6,689.65	31.92	36.59	29.26	-4,486.55	507.49	3,512.46	3,454.16	58.29	60.255		
7,251.07	7,134.00	7,050.84	6,779.25	32.06	36.99	-179.25	-4,495.52	498.52	3,517.20	3,458.42	58.79	59.828		
7,300.00	7,182.93	7,137.87	6,866.60	32.19	37.39	-179.12	-4,503.19	490.85	3,521.60	3,462.35	59.25	59.433		
7,351.07	7,234.00	7,229.05	6,956.23	32.32	37.80	-179.01	-4,510.24	483.80	3,525.62	3,465.89	59.74	59.020		
7,400.00	7,282.87	7,316.80	7,043.60	32.47	38.19	1.42	-4,516.06	477.98	3,526.85	3,466.64	60.20	58.583		
7,450.00	7,332.44	7,406.35	7,132.87	32.67	38.60	1.52	-4,521.02	473.02	3,523.23	3,462.54	60.69	58.055		
7,500.00	7,381.26	7,494.79	7,221.14	32.90	39.00	1.61	-4,524.95	469.09	3,514.74	3,453.57	61.17	57.457		
7,550.00	7,428.96	7,581.17	7,307.42	33.18	39.38	1.71	-4,527.86	466.18	3,501.45	3,439.81	61.65	56.798		
7,600.00	7,475.17	7,664.57	7,390.77	33.48	39.76	1.82	-4,529.80	464.24	3,483.52	3,421.41	62.11	56.087		
7,650.00	7,519.55	7,744.14	7,470.32	33.82	40.12	1.95	-4,530.85	463.20	3,461.14	3,398.59	62.55	55.332		
7,700.00	7,561.76	7,819.08	7,545.27	34.20	40.46	2.09	-4,531.12	462.92	3,434.53	3,371.56	62.97	54.542		
7,750.00	7,601.47	7,888.72	7,614.91	34.60	40.77	2.26	-4,530.75	463.29	3,403.98	3,340.62	63.36	53.725		
7,800.00	7,638.39	7,952.46	7,678.63	35.04	41.06	2.48	-4,529.89	464.15	3,369.79	3,306.07	63.71	52.889		
7,850.00	7,672.23	8,009.81	7,735.96	35.50	41.32	2.76	-4,528.68	465.36	3,332.30	3,268.26	64.03	52.039		
7,900.00	7,702.74	8,060.37	7,786.48	35.99	41.55	3.13	-4,527.29	466.76	3,291.87	3,227.55	64.32	51.182		
7,950.00	7,729.67	8,103.86	7,829.92	36.50	41.74	3.66	-4,525.83	468.21	3,248.89	3,184.33	64.56	50.324		
8,000.00	7,752.84	8,140.08	7,866.09	37.04	41.91	4.44	-4,524.44	469.60	3,203.74	3,138.98	64.76	49.470		
8,050.00	7,772.06	8,168.92	7,894.87	37.60	42.04	5.70	-4,523.22	470.82	3,156.83	3,091.90	64.92	48.624		
8,100.00	7,787.18	8,190.35	7,916.26	38.17	42.13	8.03	-4,522.25	471.80	3,108.55	3,043.51	65.05	47.791		
8,150.00	7,798.10	8,204.42	7,930.30	38.76	42.20	13.55	-4,521.57	472.47	3,059.32	2,994.19	65.13	46.973		
8,200.00	7,804.72	8,211.24	7,937.10	39.36	42.23	38.67	-4,521.24	472.80	3,009.53	2,944.36	65.18	46.175		
8,251.15	7,807.00	8,210.87	7,936.73	39.97	42.23	148.21	-4,521.26	472.78	2,958.43	2,893.24	65.19	45.380		
8,300.00	7,807.00	8,207.07	7,932.94	40.56	42.21	147.50	-4,521.45	472.60	2,909.66	2,844.47	65.19	44.633		
8,400.00	7,807.00	8,199.52	7,925.41	41.80	42.18	146.00	-4,521.81	472.23	2,809.84	2,744.65	65.19	43.102		
8,500.00	7,807.00	8,192.26	7,918.16	43.08	42.14	144.46	-4,522.16	471.89	2,710.02	2,644.82	65.19	41.569		
8,600.00	7,806.99	8,185.26	7,911.18	44.40	42.11	142.87	-4,522.48	471.56	2,610.19	2,544.99	65.20	40.033		
8,700.00	7,806.99	8,178.51	7,904.44	45.74	42.08	141.23	-4,522.79	471.25	2,510.37	2,445.16	65.21	38.496		
8,800.00	7,806.99	8,172.00	7,897.95	47.11	42.05	139.54	-4,523.08	470.96	2,410.56	2,345.33	65.22	36.958		
8,900.00	7,806.99	8,165.72	7,891.68	48.51	42.02	137.80	-4,523.36	470.68	2,310.74	2,245.50	65.24	35.418		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
9,000.00	7,806.99	8,159.65	7,885.62	49.93	42.00	136.02	-4,523.62	470.42	2,210.93	2,145.67	65.26	33.876		
9,100.00	7,806.99	8,153.79	7,879.77	51.38	41.97	134.19	-4,523.87	470.17	2,111.13	2,045.83	65.29	32.334		
9,200.00	7,806.99	8,148.11	7,874.10	52.84	41.94	132.32	-4,524.11	469.93	2,011.33	1,946.00	65.32	30.790		
9,300.00	7,806.98	8,142.63	7,868.63	54.32	41.92	130.41	-4,524.34	469.70	1,911.54	1,846.18	65.36	29.246		
9,400.00	7,806.98	8,137.32	7,863.32	55.82	41.89	128.46	-4,524.55	469.49	1,811.76	1,746.36	65.41	27.700		
9,500.00	7,806.98	8,132.17	7,858.19	57.34	41.87	126.48	-4,524.76	469.28	1,712.00	1,646.54	65.46	26.154		
9,600.00	7,806.98	8,127.19	7,853.21	58.87	41.85	124.46	-4,524.95	469.09	1,612.26	1,546.73	65.52	24.607		
9,700.00	7,806.98	8,122.36	7,848.39	60.41	41.83	122.42	-4,525.14	468.90	1,512.53	1,446.94	65.59	23.059		
9,800.00	7,806.98	8,117.67	7,843.71	61.96	41.81	120.35	-4,525.32	468.72	1,412.83	1,347.15	65.68	21.510		
9,900.00	7,806.97	8,113.12	7,839.17	63.53	41.79	118.27	-4,525.49	468.55	1,313.17	1,247.38	65.79	19.961		
10,000.00	7,806.97	8,108.71	7,834.76	65.10	41.77	116.18	-4,525.65	468.39	1,213.54	1,147.63	65.91	18.412		
10,100.00	7,806.97	8,104.42	7,830.47	66.69	41.75	114.07	-4,525.81	468.23	1,113.97	1,047.90	66.07	16.861		
10,200.00	7,806.97	8,100.25	7,826.31	68.29	41.73	111.97	-4,525.96	468.08	1,014.47	948.21	66.26	15.310		
10,300.00	7,806.97	8,096.20	7,822.27	69.89	41.71	109.87	-4,526.10	467.94	915.06	848.55	66.51	13.758		
10,400.00	7,806.97	8,092.26	7,818.33	71.50	41.69	107.78	-4,526.24	467.80	815.77	748.94	66.84	12.205		
10,500.00	7,806.97	8,088.43	7,814.51	73.12	41.67	105.71	-4,526.37	467.67	716.67	649.39	67.28	10.651		
10,600.00	7,806.96	8,084.70	7,810.78	74.75	41.66	103.65	-4,526.50	467.54	617.84	549.92	67.92	9.096		
10,700.00	7,806.96	8,081.07	7,807.16	76.38	41.64	101.62	-4,526.62	467.42	519.43	450.54	68.89	7.540		
10,800.00	7,806.96	8,077.54	7,803.63	78.02	41.62	99.62	-4,526.74	467.30	421.74	351.29	70.45	5.986		
10,900.00	7,806.96	8,074.09	7,800.19	79.66	41.61	97.65	-4,526.85	467.19	325.42	252.17	73.25	4.443		
11,000.00	7,806.96	8,060.77	7,786.96	81.31	41.00	90.00	-4,531.12	462.92	237.51	157.93	79.58	2.984		
11,100.00	7,806.96	8,060.77	7,786.96	82.97	41.00	90.00	-4,531.12	462.92	153.57	60.43	93.14	1.649		
11,200.00	7,806.95	8,060.77	7,786.95	84.63	41.00	90.00	-4,531.12	462.92	103.72	-14.51	118.23	0.877 Level 1		
11,214.13	7,806.95	8,060.77	7,786.95	84.86	41.00	90.00	-4,531.12	462.92	102.75	-17.05	119.80	0.858 Level 1, CC, ES, SF		
11,300.00	7,806.95	8,060.77	7,786.95	86.29	41.00	90.00	-4,531.12	462.92	133.91	29.44	104.47	1.282 Level 3		
11,400.00	7,806.95	8,060.77	7,786.95	87.96	41.00	90.00	-4,531.12	462.92	212.38	128.62	83.76	2.536		
11,500.00	7,806.95	8,060.77	7,786.95	89.64	41.00	90.00	-4,531.12	462.92	303.78	229.09	74.69	4.067		
11,600.00	7,806.95	8,060.76	7,786.95	91.31	41.00	90.00	-4,531.12	462.92	399.32	328.65	70.66	5.651		
11,700.00	7,806.95	8,060.76	7,786.95	92.99	41.00	90.00	-4,531.12	462.92	496.62	427.94	68.68	7.231		
11,800.00	7,806.95	8,060.76	7,786.95	94.68	41.00	89.99	-4,531.12	462.92	594.81	527.21	67.60	8.798		
11,900.00	7,806.94	8,060.76	7,786.94	96.36	41.00	89.99	-4,531.12	462.92	693.52	626.54	66.99	10.353		
12,000.00	7,806.94	8,060.76	7,786.94	98.05	41.00	89.99	-4,531.12	462.92	792.56	725.95	66.61	11.898		
12,100.00	7,806.94	8,060.76	7,786.94	99.74	41.00	89.99	-4,531.12	462.92	891.81	825.43	66.38	13.435		
12,200.00	7,806.94	8,060.75	7,786.94	101.44	41.00	89.99	-4,531.12	462.92	991.21	924.97	66.24	14.965		
12,300.00	7,806.94	8,060.75	7,786.94	103.14	41.00	89.99	-4,531.12	462.92	1,090.72	1,024.57	66.15	16.489		
12,400.00	7,806.94	8,060.75	7,786.94	104.84	41.00	89.99	-4,531.12	462.92	1,190.31	1,124.21	66.10	18.008		
12,500.00	7,806.93	8,060.75	7,786.93	106.54	41.00	89.99	-4,531.12	462.92	1,289.97	1,223.89	66.08	19.523		
12,600.00	7,806.93	8,060.75	7,786.93	108.25	41.00	89.99	-4,531.12	462.92	1,389.67	1,323.60	66.07	21.033		
12,700.00	7,806.93	8,060.75	7,786.93	109.95	41.00	89.99	-4,531.12	462.92	1,489.42	1,423.34	66.08	22.540		
12,800.00	7,806.93	8,060.75	7,786.93	111.66	41.00	89.99	-4,531.12	462.92	1,589.20	1,523.10	66.10	24.042		
12,900.00	7,806.93	8,060.74	7,786.93	113.37	41.00	89.99	-4,531.12	462.92	1,689.00	1,622.87	66.13	25.542		
13,000.00	7,806.93	8,060.74	7,786.93	115.09	41.00	89.98	-4,531.12	462.92	1,788.82	1,722.66	66.16	27.037		
13,100.00	7,806.93	8,060.74	7,786.93	116.80	41.00	89.98	-4,531.12	462.92	1,888.67	1,822.47	66.20	28.530		
13,200.00	7,806.92	8,060.74	7,786.92	118.52	41.00	89.98	-4,531.12	462.92	1,988.53	1,922.28	66.24	30.019		
13,300.00	7,806.92	8,060.74	7,786.92	120.24	41.00	89.98	-4,531.12	462.92	2,088.40	2,022.11	66.29	31.505		
13,400.00	7,806.92	8,060.74	7,786.92	121.96	41.00	89.98	-4,531.12	462.92	2,188.28	2,121.95	66.34	32.987		
13,500.00	7,806.92	8,060.73	7,786.92	123.68	41.00	89.98	-4,531.12	462.92	2,288.18	2,221.79	66.39	34.466		
13,600.00	7,806.92	8,060.73	7,786.92	125.40	41.00	89.98	-4,531.12	462.92	2,388.08	2,321.64	66.44	35.942		
13,700.00	7,806.92	8,060.73	7,786.92	127.12	41.00	89.98	-4,531.12	462.92	2,487.99	2,421.49	66.50	37.414		
13,800.00	7,806.91	8,060.73	7,786.91	128.85	41.00	89.98	-4,531.12	462.92	2,587.91	2,521.36	66.56	38.884		
13,900.00	7,806.91	8,060.73	7,786.91	130.58	41.00	89.98	-4,531.12	462.92	2,687.83	2,621.22	66.61	40.350		
14,000.00	7,806.91	8,060.73	7,786.91	132.30	41.00	89.98	-4,531.12	462.92	2,787.76	2,721.09	66.67	41.812		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
14,100.00	7,806.91	8,060.73	7,786.91	134.03	41.00	89.98	-4,531.12	462.92	2,887.70	2,820.96	66.73	43.271		
14,200.00	7,806.91	8,060.72	7,786.91	135.76	41.00	89.97	-4,531.12	462.92	2,987.64	2,920.84	66.80	44.727		
14,300.00	7,806.91	8,060.72	7,786.91	137.50	41.00	89.97	-4,531.12	462.92	3,087.58	3,020.72	66.86	46.180		
14,400.00	7,806.91	8,060.72	7,786.91	139.23	41.00	89.97	-4,531.12	462.92	3,187.53	3,120.60	66.92	47.629		
14,500.00	7,806.90	8,060.72	7,786.90	140.96	41.00	89.97	-4,531.12	462.92	3,287.48	3,220.49	66.99	49.074		
14,600.00	7,806.90	8,060.72	7,786.90	142.70	41.00	89.97	-4,531.12	462.92	3,387.43	3,320.37	67.06	50.516		
14,700.00	7,806.90	8,060.72	7,786.90	144.43	41.00	89.97	-4,531.12	462.92	3,487.38	3,420.26	67.12	51.955		
14,800.00	7,806.90	8,060.71	7,786.90	146.17	41.00	89.97	-4,531.12	462.92	3,587.34	3,520.15	67.19	53.390		
14,900.00	7,806.90	8,060.71	7,786.90	147.91	41.00	89.97	-4,531.12	462.92	3,687.30	3,620.04	67.26	54.822		
15,000.00	7,806.90	8,060.71	7,786.90	149.64	41.00	89.97	-4,531.12	462.92	3,787.26	3,719.94	67.33	56.250		
15,100.00	7,806.89	8,060.71	7,786.89	151.38	41.00	89.97	-4,531.12	462.92	3,887.23	3,819.83	67.40	57.675		
15,200.00	7,806.89	8,060.71	7,786.89	153.12	41.00	89.97	-4,531.12	462.92	3,987.19	3,919.72	67.47	59.096		
15,300.00	7,806.89	8,060.71	7,786.89	154.86	41.00	89.96	-4,531.12	462.92	4,087.16	4,019.62	67.54	60.513		
15,400.00	7,806.89	8,060.71	7,786.89	156.60	41.00	89.96	-4,531.12	462.92	4,187.13	4,119.52	67.61	61.927		
15,500.00	7,806.89	8,060.70	7,786.89	158.35	41.00	89.96	-4,531.12	462.92	4,287.10	4,219.41	67.69	63.337		
15,600.00	7,806.89	8,060.70	7,786.89	160.09	41.00	89.96	-4,531.12	462.92	4,387.07	4,319.31	67.76	64.743		
15,700.00	7,806.89	8,060.70	7,786.89	161.83	41.00	89.96	-4,531.12	462.92	4,487.05	4,419.21	67.84	66.146		
15,800.00	7,806.88	8,060.70	7,786.88	163.57	41.00	89.96	-4,531.12	462.92	4,587.02	4,519.11	67.91	67.545		
15,900.00	7,806.88	8,060.70	7,786.88	165.32	41.00	89.96	-4,531.12	462.92	4,687.00	4,619.01	67.99	68.940		
16,000.00	7,806.88	8,060.70	7,786.88	167.06	41.00	89.96	-4,531.12	462.92	4,786.97	4,718.91	68.06	70.331		
16,100.00	7,806.88	8,060.69	7,786.88	168.81	41.00	89.96	-4,531.12	462.92	4,886.95	4,818.81	68.14	71.719		
16,200.00	7,806.88	8,060.69	7,786.88	170.56	41.00	89.96	-4,531.12	462.92	4,986.93	4,918.71	68.22	73.103		
16,300.00	7,806.88	8,060.69	7,786.88	172.30	41.00	89.96	-4,531.12	462.92	5,086.91	5,018.61	68.30	74.483		
16,400.00	7,806.87	8,060.69	7,786.87	174.05	41.00	89.96	-4,531.12	462.92	5,186.89	5,118.51	68.38	75.859		
16,500.00	7,806.87	8,060.69	7,786.87	175.80	41.00	89.95	-4,531.12	462.92	5,286.87	5,218.41	68.46	77.231		
16,600.00	7,806.87	8,060.69	7,786.87	177.55	41.00	89.95	-4,531.12	462.92	5,386.85	5,318.31	68.54	78.600		
16,700.00	7,806.87	8,060.69	7,786.87	179.30	41.00	89.95	-4,531.12	462.92	5,486.83	5,418.22	68.62	79.964		
16,800.00	7,806.87	8,060.68	7,786.87	181.04	41.00	89.95	-4,531.12	462.92	5,586.81	5,518.12	68.70	81.325		
16,900.00	7,806.87	8,060.68	7,786.87	182.79	41.00	89.95	-4,531.12	462.92	5,686.80	5,618.02	68.78	82.682		
17,000.00	7,806.87	8,060.68	7,786.87	184.54	41.00	89.95	-4,531.12	462.92	5,786.78	5,717.92	68.86	84.034		
17,100.00	7,806.86	8,060.68	7,786.86	186.30	41.00	89.95	-4,531.12	462.92	5,886.77	5,817.82	68.95	85.383		
17,200.00	7,806.86	8,060.68	7,786.86	188.05	41.00	89.95	-4,531.12	462.92	5,986.75	5,917.72	69.03	86.728		
17,300.00	7,806.86	8,060.68	7,786.86	189.80	41.00	89.95	-4,531.12	462.92	6,086.74	6,017.62	69.11	88.069		
17,400.00	7,806.86	8,060.67	7,786.86	191.55	41.00	89.95	-4,531.12	462.92	6,186.72	6,117.53	69.20	89.406		
17,500.00	7,806.86	8,060.67	7,786.86	193.30	41.00	89.95	-4,531.12	462.92	6,286.71	6,217.43	69.28	90.739		
17,600.00	7,806.86	8,060.67	7,786.86	195.06	41.00	89.95	-4,531.12	462.92	6,386.70	6,317.33	69.37	92.068		
17,700.00	7,806.85	8,060.67	7,786.85	196.81	41.00	89.94	-4,531.12	462.92	6,486.68	6,417.23	69.46	93.392		
17,800.00	7,806.85	8,060.67	7,786.85	198.56	41.00	89.94	-4,531.12	462.92	6,586.67	6,517.13	69.54	94.713		
17,898.35	7,807.00	8,060.82	7,787.00	200.29	41.00	89.94	-4,531.12	462.92	6,685.01	6,615.38	69.63	96.008		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	146.37	-4,922.88	3,273.86	5,912.40					
100.00	100.00	40.00	40.00	0.13	0.47	146.37	-4,922.88	3,273.86	5,912.10	5,911.49	0.61	9,717.607		
200.00	200.00	140.00	140.00	0.49	2.10	146.37	-4,922.88	3,273.86	5,912.10	5,909.50	2.59	2,278.398		
300.00	300.00	240.00	240.00	0.85	4.31	146.37	-4,922.88	3,273.86	5,912.10	5,906.94	5.16	1,145.688		
400.00	400.00	340.00	340.00	1.21	6.37	146.37	-4,922.88	3,273.86	5,912.10	5,904.52	7.58	779.671		
500.00	500.00	440.00	440.00	1.57	8.41	146.37	-4,922.88	3,273.86	5,912.10	5,902.12	9.98	592.498		
600.00	600.00	540.00	540.00	1.93	10.44	146.37	-4,922.88	3,273.86	5,912.10	5,899.74	12.36	478.198		
700.00	700.00	640.00	640.00	2.29	12.46	146.37	-4,922.88	3,273.86	5,912.10	5,897.36	14.74	401.006		
800.00	800.00	740.00	740.00	2.64	14.48	146.37	-4,922.88	3,273.86	5,912.10	5,894.98	17.12	345.332		
900.00	900.00	840.00	840.00	3.00	16.49	146.37	-4,922.88	3,273.86	5,912.10	5,892.60	19.50	303.261		
1,000.00	1,000.00	940.00	940.00	3.36	18.51	146.37	-4,922.88	3,273.86	5,912.10	5,890.23	21.87	270.343		
1,100.00	1,100.00	1,040.00	1,040.00	3.72	20.52	146.37	-4,922.88	3,273.86	5,912.10	5,887.86	24.24	243.880		
1,200.00	1,200.00	1,140.00	1,140.00	4.08	22.54	146.37	-4,922.88	3,273.86	5,912.10	5,885.49	26.61	222.141		
1,300.00	1,300.00	1,240.00	1,240.00	4.44	24.55	146.37	-4,922.88	3,273.86	5,912.10	5,883.11	28.99	203.964		
1,400.00	1,399.98	1,339.98	1,339.98	4.78	26.56	-4.93	-4,922.88	3,273.86	5,910.36	5,879.02	31.34	188.586		
1,500.00	1,499.84	1,439.84	1,439.84	5.11	28.57	-4.94	-4,922.88	3,273.86	5,905.15	5,871.47	33.68	175.334		
1,600.00	1,599.45	1,539.45	1,539.45	5.44	30.58	-4.96	-4,922.88	3,273.86	5,896.46	5,860.45	36.02	163.712		
1,700.00	1,698.70	1,638.70	1,638.70	5.79	32.57	-4.99	-4,922.88	3,273.86	5,884.32	5,845.97	38.35	153.434		
1,800.00	1,797.47	1,737.47	1,737.47	6.15	34.56	-5.03	-4,922.88	3,273.86	5,868.74	5,828.06	40.68	144.276		
1,900.00	1,895.62	1,835.62	1,835.62	6.53	36.54	-5.08	-4,922.88	3,273.86	5,849.73	5,806.74	42.99	136.060		
1,912.93	1,908.27	1,848.27	1,848.27	6.58	36.79	-5.09	-4,922.88	3,273.86	5,847.02	5,803.73	43.30	135.051		
2,000.00	1,993.35	1,933.35	1,933.35	6.93	38.50	-5.11	-4,922.88	3,273.86	5,828.61	5,783.30	45.30	128.659		
2,100.00	2,091.07	2,031.07	2,031.07	7.34	40.47	-5.13	-4,922.88	3,273.86	5,807.45	5,759.84	47.61	121.975		
2,200.00	2,188.79	2,128.79	2,128.79	7.77	42.43	-5.15	-4,922.88	3,273.86	5,786.30	5,736.38	49.93	115.900		
2,300.00	2,286.51	2,226.51	2,226.51	8.20	44.40	-5.16	-4,922.88	3,273.86	5,765.15	5,712.91	52.24	110.356		
2,400.00	2,384.23	2,324.23	2,324.23	8.65	46.37	-5.18	-4,922.88	3,273.86	5,744.00	5,689.44	54.56	105.277		
2,500.00	2,481.95	2,421.95	2,421.95	9.10	48.33	-5.20	-4,922.88	3,273.86	5,722.85	5,665.97	56.88	100.609		
2,600.00	2,579.67	2,519.67	2,519.67	9.56	50.30	-5.22	-4,922.88	3,273.86	5,701.70	5,642.50	59.21	96.302		
2,700.00	2,677.39	2,617.39	2,617.39	10.02	52.26	-5.24	-4,922.88	3,273.86	5,680.56	5,619.02	61.53	92.319		
2,800.00	2,775.11	2,715.11	2,715.11	10.49	54.23	-5.26	-4,922.88	3,273.86	5,659.41	5,595.55	63.86	88.623		
2,900.00	2,872.83	2,812.83	2,812.83	10.96	56.19	-5.28	-4,922.88	3,273.86	5,638.26	5,572.07	66.19	85.185		
3,000.00	2,970.55	2,910.55	2,910.55	11.44	58.16	-5.30	-4,922.88	3,273.86	5,617.12	5,548.60	68.52	81.979		
3,100.00	3,068.27	3,008.27	3,008.27	11.92	60.12	-5.32	-4,922.88	3,273.86	5,595.97	5,525.12	70.85	78.982		
3,200.00	3,165.99	3,105.99	3,105.99	12.40	62.09	-5.34	-4,922.88	3,273.86	5,574.83	5,501.64	73.18	76.175		
3,300.00	3,263.71	3,203.71	3,203.71	12.88	64.06	-5.36	-4,922.88	3,273.86	5,553.68	5,478.16	75.52	73.541		
3,400.00	3,361.43	3,301.43	3,301.43	13.37	66.02	-5.38	-4,922.88	3,273.86	5,532.54	5,454.69	77.85	71.064		
3,500.00	3,459.15	3,400.85	3,399.15	13.86	68.02	-5.40	-4,922.88	3,273.86	5,511.40	5,431.17	80.22	68.701		
3,600.00	3,556.87	3,503.13	3,496.87	14.35	70.08	-5.42	-4,922.88	3,273.86	5,490.25	5,407.60	82.65	66.427		
3,700.00	3,654.59	3,605.41	3,594.59	14.84	72.13	-5.44	-4,922.88	3,273.86	5,469.11	5,384.03	85.08	64.282		
3,800.00	3,752.31	3,707.69	3,692.31	15.34	74.19	-5.47	-4,922.88	3,273.86	5,447.97	5,360.46	87.51	62.255		
3,900.00	3,850.03	3,809.97	3,790.03	15.83	76.25	-5.49	-4,922.88	3,273.86	5,426.83	5,336.89	89.94	60.338		
4,000.00	3,947.75	3,887.75	3,887.75	16.33	77.81	-5.51	-4,922.88	3,273.86	5,405.69	5,313.81	91.88	58.835		
4,100.00	4,045.47	3,985.47	3,985.47	16.83	79.78	-5.53	-4,922.88	3,273.86	5,384.55	5,290.34	94.22	57.150		
4,200.00	4,143.19	4,083.19	4,083.19	17.32	81.74	-5.55	-4,922.88	3,273.86	5,363.42	5,266.86	96.56	55.546		
4,300.00	4,240.91	4,180.91	4,180.91	17.82	83.71	-5.57	-4,922.88	3,273.86	5,342.28	5,243.38	98.90	54.018		
4,400.00	4,338.63	4,278.63	4,278.63	18.32	85.67	-5.60	-4,922.88	3,273.86	5,321.14	5,219.90	101.24	52.560		
4,500.00	4,436.35	4,376.35	4,376.35	18.82	87.64	-5.62	-4,922.88	3,273.86	5,300.01	5,196.43	103.58	51.167		
4,600.00	4,534.07	4,474.07	4,474.07	19.33	89.60	-5.64	-4,922.88	3,273.86	5,278.87	5,172.95	105.92	49.837		
4,700.00	4,631.79	4,571.79	4,571.79	19.83	91.57	-5.66	-4,922.88	3,273.86	5,257.74	5,149.47	108.27	48.563		
4,800.00	4,729.51	4,669.51	4,669.51	20.33	93.54	-5.69	-4,922.88	3,273.86	5,236.61	5,126.00	110.61	47.343		
4,900.00	4,827.23	4,767.23	4,767.23	20.83	95.50	-5.71	-4,922.88	3,273.86	5,215.47	5,102.52	112.95	46.174		
5,000.00	4,924.95	4,864.95	4,864.95	21.34	97.47	-5.73	-4,922.88	3,273.86	5,194.34	5,079.05	115.30	45.052		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,962.67	4,962.67	21.84	99.43	-5.76	-4,922.88	3,273.86	5,173.21	5,055.57	117.64	43.975		
5,200.00	5,120.39	5,060.39	5,060.39	22.35	101.40	-5.78	-4,922.88	3,273.86	5,152.08	5,032.10	119.98	42.940		
5,300.00	5,218.11	5,158.11	5,158.11	22.85	103.36	-5.80	-4,922.88	3,273.86	5,130.95	5,008.62	122.33	41.944		
5,400.00	5,315.83	5,255.83	5,255.83	23.36	105.33	-5.83	-4,922.88	3,273.86	5,109.82	4,985.15	124.67	40.986		
5,500.00	5,413.55	5,353.55	5,353.55	23.86	107.29	-5.85	-4,922.88	3,273.86	5,088.70	4,961.68	127.02	40.063		
5,600.00	5,511.27	5,451.27	5,451.27	24.37	109.26	-5.88	-4,922.88	3,273.86	5,067.57	4,938.21	129.36	39.174		
5,700.00	5,608.99	5,548.99	5,548.99	24.88	111.22	-5.90	-4,922.88	3,273.86	5,046.44	4,914.74	131.71	38.316		
5,800.00	5,706.71	5,646.71	5,646.71	25.38	113.19	-5.93	-4,922.88	3,273.86	5,025.32	4,891.27	134.05	37.488		
5,900.00	5,804.43	5,744.43	5,744.43	25.89	115.15	-5.95	-4,922.88	3,273.86	5,004.20	4,867.80	136.40	36.688		
6,000.00	5,902.15	5,842.15	5,842.15	26.40	117.12	-5.98	-4,922.88	3,273.86	4,983.07	4,844.33	138.74	35.915		
6,100.00	5,999.87	5,939.87	5,939.87	26.91	119.08	-6.00	-4,922.88	3,273.86	4,961.95	4,820.86	141.09	35.169		
6,200.00	6,097.59	6,037.59	6,037.59	27.42	121.05	-6.03	-4,922.88	3,273.86	4,940.83	4,797.39	143.44	34.446		
6,300.00	6,195.30	6,135.30	6,135.30	27.92	123.01	-6.05	-4,922.88	3,273.86	4,919.71	4,773.93	145.78	33.747		
6,400.00	6,293.02	6,233.02	6,233.02	28.43	124.98	-6.08	-4,922.88	3,273.86	4,898.59	4,750.46	148.13	33.069		
6,500.00	6,390.74	6,330.74	6,330.74	28.94	126.94	-6.11	-4,922.88	3,273.86	4,877.47	4,727.00	150.48	32.413		
6,600.00	6,488.46	6,428.46	6,428.46	29.45	128.91	-6.13	-4,922.88	3,273.86	4,856.36	4,703.53	152.83	31.777		
6,638.14	6,525.73	6,465.73	6,465.73	29.64	129.66	-6.14	-4,922.88	3,273.86	4,848.30	4,694.58	153.72	31.540		
6,700.00	6,586.32	6,526.32	6,526.32	29.95	130.88	-6.13	-4,922.88	3,273.86	4,835.89	4,680.72	155.17	31.164		
6,800.00	6,684.79	6,624.79	6,624.79	30.42	132.86	-6.12	-4,922.88	3,273.86	4,818.59	4,661.06	157.53	30.589		
6,900.00	6,783.81	6,723.81	6,723.81	30.85	134.85	-6.10	-4,922.88	3,273.86	4,804.71	4,644.82	159.89	30.050		
7,000.00	6,883.25	6,823.25	6,823.25	31.24	136.85	-6.10	-4,922.88	3,273.86	4,794.28	4,632.03	162.25	29.549		
7,100.00	6,983.00	6,923.00	6,923.00	31.60	138.85	-6.09	-4,922.88	3,273.86	4,787.31	4,622.70	164.61	29.083		
7,200.00	7,082.93	7,022.93	7,022.93	31.92	140.86	-6.09	-4,922.88	3,273.86	4,783.80	4,616.84	166.96	28.652		
7,251.07	7,134.00	7,074.00	7,074.00	32.06	141.89	145.21	-4,922.88	3,273.86	4,783.35	4,615.19	168.16	28.446		
7,300.00	7,182.93	7,122.93	7,122.93	32.19	142.87	145.21	-4,922.88	3,273.86	4,783.35	4,614.05	169.29	28.255		
7,351.07	7,234.00	7,174.00	7,174.00	32.32	143.90	145.21	-4,922.88	3,273.86	4,783.35	4,612.87	170.48	28.058		
7,400.00	7,282.87	7,222.87	7,222.87	32.47	144.88	-34.56	-4,922.88	3,273.86	4,781.63	4,610.00	171.63	27.860		
7,450.00	7,332.44	7,272.44	7,272.44	32.67	145.88	-34.91	-4,922.88	3,273.86	4,776.32	4,603.51	172.81	27.639		
7,500.00	7,381.26	7,321.26	7,321.26	32.90	146.86	-35.50	-4,922.88	3,273.86	4,767.49	4,593.50	173.99	27.401		
7,550.00	7,428.96	7,368.96	7,368.96	33.18	147.82	-36.35	-4,922.88	3,273.86	4,755.20	4,580.04	175.15	27.149		
7,600.00	7,475.17	7,415.17	7,415.17	33.48	148.75	-37.47	-4,922.88	3,273.86	4,739.55	4,563.25	176.30	26.884		
7,650.00	7,519.55	7,459.55	7,459.55	33.82	149.64	-38.90	-4,922.88	3,273.86	4,720.69	4,543.28	177.41	26.609		
7,700.00	7,561.76	7,501.76	7,501.76	34.20	150.49	-40.65	-4,922.88	3,273.86	4,698.77	4,520.30	178.48	26.327		
7,750.00	7,601.47	7,541.47	7,541.47	34.60	151.29	-42.78	-4,922.88	3,273.86	4,673.99	4,494.49	179.50	26.039		
7,800.00	7,638.39	7,578.39	7,578.39	35.04	152.03	-45.32	-4,922.88	3,273.86	4,646.56	4,466.09	180.47	25.748		
7,850.00	7,672.23	7,612.23	7,612.23	35.50	152.71	-48.31	-4,922.88	3,273.86	4,616.70	4,435.33	181.37	25.454		
7,900.00	7,702.74	7,642.74	7,642.74	35.99	153.33	-51.81	-4,922.88	3,273.86	4,584.68	4,402.46	182.21	25.161		
7,950.00	7,729.67	7,669.67	7,669.67	36.50	153.87	-55.85	-4,922.88	3,273.86	4,550.75	4,367.77	182.98	24.870		
8,000.00	7,752.84	7,707.16	7,692.84	37.04	154.62	-60.45	-4,922.88	3,273.86	4,515.22	4,331.26	183.96	24.544		
8,050.00	7,772.06	7,712.06	7,712.06	37.60	154.72	-65.61	-4,922.88	3,273.86	4,478.37	4,294.07	184.29	24.300		
8,100.00	7,787.18	7,727.18	7,727.18	38.17	155.03	-71.26	-4,922.88	3,273.86	4,440.50	4,255.67	184.83	24.025		
8,150.00	7,798.10	7,738.10	7,738.10	38.76	155.25	-77.30	-4,922.88	3,273.86	4,401.92	4,216.64	185.28	23.758		
8,200.00	7,804.72	7,744.72	7,744.72	39.36	155.38	-83.57	-4,922.88	3,273.86	4,362.95	4,177.30	185.65	23.501		
8,251.15	7,807.00	7,747.00	7,747.00	39.97	155.42	-90.00	-4,922.88	3,273.86	4,323.00	4,137.05	185.94	23.249		
8,300.00	7,807.00	7,747.00	7,747.00	40.56	155.42	-90.00	-4,922.88	3,273.86	4,285.00	4,098.81	186.19	23.014		
8,400.00	7,807.00	7,747.00	7,747.00	41.80	155.42	-90.00	-4,922.88	3,273.86	4,207.94	4,021.17	186.76	22.531		
8,500.00	7,807.00	7,747.00	7,747.00	43.08	155.42	-90.00	-4,922.88	3,273.86	4,131.85	3,944.43	187.42	22.046		
8,600.00	7,806.99	7,746.99	7,746.99	44.40	155.42	-90.00	-4,922.88	3,273.86	4,056.81	3,868.63	188.17	21.559		
8,700.00	7,806.99	7,746.99	7,746.99	45.74	155.42	-90.00	-4,922.88	3,273.86	3,982.86	3,793.84	189.02	21.072		
8,800.00	7,806.99	7,746.99	7,746.99	47.11	155.42	-90.00	-4,922.88	3,273.86	3,910.07	3,720.11	189.96	20.584		
8,900.00	7,806.99	7,746.99	7,746.99	48.51	155.42	-90.00	-4,922.88	3,273.86	3,838.50	3,647.51	191.00	20.097		
9,000.00	7,806.99	7,746.99	7,746.99	49.93	155.42	-90.00	-4,922.88	3,273.86	3,768.23	3,576.10	192.14	19.612		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,746.99	7,746.99	51.38	155.42	-90.00	-4,922.88	3,273.86	3,699.33	3,505.96	193.38	19.130		
9,200.00	7,806.99	7,746.99	7,746.99	52.84	155.42	-90.00	-4,922.88	3,273.86	3,631.88	3,437.16	194.72	18.652		
9,300.00	7,806.98	7,746.98	7,746.98	54.32	155.42	-90.00	-4,922.88	3,273.86	3,565.95	3,369.79	196.16	18.179		
9,400.00	7,806.98	7,746.98	7,746.98	55.82	155.42	-90.00	-4,922.88	3,273.86	3,501.64	3,303.94	197.70	17.712		
9,500.00	7,806.98	7,746.98	7,746.98	57.34	155.42	-90.00	-4,922.88	3,273.86	3,439.03	3,239.69	199.34	17.252		
9,600.00	7,806.98	7,746.98	7,746.98	58.87	155.42	-90.00	-4,922.88	3,273.86	3,378.23	3,177.15	201.08	16.800		
9,700.00	7,806.98	7,746.98	7,746.98	60.41	155.42	-90.00	-4,922.88	3,273.86	3,319.32	3,116.41	202.91	16.358		
9,800.00	7,806.98	7,746.98	7,746.98	61.96	155.42	-90.00	-4,922.88	3,273.86	3,262.42	3,057.58	204.83	15.927		
9,900.00	7,806.97	7,746.97	7,746.97	63.53	155.42	-90.00	-4,922.88	3,273.86	3,207.62	3,000.78	206.84	15.507		
10,000.00	7,806.97	7,746.97	7,746.97	65.10	155.42	-90.00	-4,922.88	3,273.86	3,155.05	2,946.11	208.94	15.101		
10,100.00	7,806.97	7,746.97	7,746.97	66.69	155.42	-90.00	-4,922.88	3,273.86	3,104.80	2,893.70	211.10	14.707		
10,200.00	7,806.97	7,746.97	7,746.97	68.29	155.42	-90.00	-4,922.88	3,273.86	3,057.00	2,843.66	213.34	14.329		
10,300.00	7,806.97	7,746.97	7,746.97	69.89	155.42	-90.00	-4,922.88	3,273.86	3,011.77	2,796.13	215.64	13.967		
10,400.00	7,806.97	7,746.97	7,746.97	71.50	155.42	-90.00	-4,922.88	3,273.86	2,969.21	2,751.22	217.99	13.621		
10,500.00	7,806.97	7,746.97	7,746.97	73.12	155.42	-90.00	-4,922.88	3,273.86	2,929.45	2,709.06	220.39	13.292		
10,600.00	7,806.96	7,746.96	7,746.96	74.75	155.42	-90.00	-4,922.88	3,273.86	2,892.61	2,669.78	222.82	12.982		
10,700.00	7,806.96	7,746.96	7,746.96	76.38	155.42	-90.00	-4,922.88	3,273.86	2,858.78	2,633.51	225.28	12.690		
10,800.00	7,806.96	7,746.96	7,746.96	78.02	155.42	-90.00	-4,922.88	3,273.86	2,828.10	2,600.35	227.74	12.418		
10,900.00	7,806.96	7,746.96	7,746.96	79.66	155.42	-90.00	-4,922.88	3,273.86	2,800.64	2,570.44	230.20	12.166		
11,000.00	7,806.96	7,746.96	7,746.96	81.31	155.42	-90.00	-4,922.88	3,273.86	2,776.52	2,543.87	232.65	11.934		
11,100.00	7,806.96	7,746.96	7,746.96	82.97	155.42	-90.00	-4,922.88	3,273.86	2,755.82	2,520.76	235.06	11.724		
11,200.00	7,806.95	7,746.95	7,746.95	84.63	155.42	-90.00	-4,922.88	3,273.86	2,738.62	2,501.18	237.44	11.534		
11,300.00	7,806.95	7,746.95	7,746.95	86.29	155.42	-90.00	-4,922.88	3,273.86	2,724.98	2,485.22	239.75	11.366		
11,400.00	7,806.95	7,746.95	7,746.95	87.96	155.42	-90.00	-4,922.88	3,273.86	2,714.95	2,472.95	242.00	11.219		
11,500.00	7,806.95	7,746.95	7,746.95	89.64	155.42	-90.00	-4,922.88	3,273.86	2,708.59	2,464.42	244.16	11.093		
11,600.00	7,806.95	7,746.95	7,746.95	91.31	155.42	-90.00	-4,922.88	3,273.86	2,705.90	2,459.67	246.23	10.989		
11,622.63	7,806.95	7,746.95	7,746.95	91.69	155.42	-90.00	-4,922.88	3,273.86	2,705.81	2,459.12	246.69	10.969 CC		
11,700.00	7,806.95	7,746.95	7,746.95	92.99	155.42	-90.00	-4,922.88	3,273.86	2,706.92	2,458.72	248.20	10.906 ES		
11,800.00	7,806.95	7,746.95	7,746.95	94.68	155.42	-90.00	-4,922.88	3,273.86	2,711.62	2,461.57	250.05	10.844		
11,900.00	7,806.94	7,746.94	7,746.94	96.36	155.42	-90.00	-4,922.88	3,273.86	2,719.99	2,468.21	251.78	10.803		
12,000.00	7,806.94	7,746.94	7,746.94	98.05	155.42	-90.00	-4,922.88	3,273.86	2,732.00	2,478.61	253.39	10.782		
12,100.00	7,806.94	7,746.94	7,746.94	99.74	155.42	-90.00	-4,922.88	3,273.86	2,747.60	2,492.73	254.87	10.780 SF		
12,200.00	7,806.94	7,746.94	7,746.94	101.44	155.42	-90.00	-4,922.88	3,273.86	2,766.72	2,510.51	256.21	10.798		
12,300.00	7,806.94	7,746.94	7,746.94	103.14	155.42	-90.00	-4,922.88	3,273.86	2,789.31	2,531.88	257.43	10.835		
12,400.00	7,806.94	7,746.94	7,746.94	104.84	155.42	-90.00	-4,922.88	3,273.86	2,815.26	2,556.75	258.51	10.890		
12,500.00	7,806.93	7,746.93	7,746.93	106.54	155.42	-90.00	-4,922.88	3,273.86	2,844.50	2,585.04	259.46	10.963		
12,600.00	7,806.93	7,746.93	7,746.93	108.25	155.42	-90.00	-4,922.88	3,273.86	2,876.92	2,616.62	260.29	11.053		
12,700.00	7,806.93	7,746.93	7,746.93	109.95	155.42	-90.00	-4,922.88	3,273.86	2,912.41	2,651.41	261.00	11.158		
12,800.00	7,806.93	7,746.93	7,746.93	111.66	155.42	-90.00	-4,922.88	3,273.86	2,950.87	2,689.27	261.60	11.280		
12,900.00	7,806.93	7,746.93	7,746.93	113.37	155.42	-90.00	-4,922.88	3,273.86	2,992.17	2,730.08	262.09	11.417		
13,000.00	7,806.93	7,746.93	7,746.93	115.09	155.42	-90.00	-4,922.88	3,273.86	3,036.21	2,773.73	262.47	11.568		
13,100.00	7,806.93	7,746.93	7,746.93	116.80	155.42	-90.00	-4,922.88	3,273.86	3,082.86	2,820.09	262.77	11.732		
13,200.00	7,806.92	7,746.92	7,746.92	118.52	155.42	-90.00	-4,922.88	3,273.86	3,132.01	2,869.04	262.97	11.910		
13,300.00	7,806.92	7,746.92	7,746.92	120.24	155.42	-90.00	-4,922.88	3,273.86	3,183.55	2,920.45	263.10	12.100		
13,400.00	7,806.92	7,746.92	7,746.92	121.96	155.42	-90.00	-4,922.88	3,273.86	3,237.35	2,974.20	263.15	12.302		
13,500.00	7,806.92	7,746.92	7,746.92	123.68	155.42	-90.00	-4,922.88	3,273.86	3,293.32	3,030.18	263.14	12.515		
13,600.00	7,806.92	7,746.92	7,746.92	125.40	155.42	-90.00	-4,922.88	3,273.86	3,351.33	3,088.26	263.07	12.739		
13,700.00	7,806.92	7,746.92	7,746.92	127.12	155.42	-90.00	-4,922.88	3,273.86	3,411.29	3,148.34	262.95	12.973		
13,800.00	7,806.91	7,746.91	7,746.91	128.85	155.42	-90.00	-4,922.88	3,273.86	3,473.09	3,210.32	262.77	13.217		
13,900.00	7,806.91	7,746.91	7,746.91	130.58	155.42	-90.00	-4,922.88	3,273.86	3,536.64	3,274.08	262.56	13.470		
14,000.00	7,806.91	7,746.91	7,746.91	132.30	155.42	-90.00	-4,922.88	3,273.86	3,601.85	3,339.53	262.31	13.731		
14,100.00	7,806.91	7,746.91	7,746.91	134.03	155.42	-90.00	-4,922.88	3,273.86	3,668.62	3,406.59	262.03	14.001		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - ABND VERT BICKLER A UNIT 2 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.91	7,746.91	7,746.91	135.76	155.42	-90.00	-4,922.88	3,273.86	3,736.88	3,475.15	261.72	14.278		
14,300.00	7,806.91	7,746.91	7,746.91	137.50	155.42	-90.00	-4,922.88	3,273.86	3,806.54	3,545.15	261.39	14.563		
14,400.00	7,806.91	7,746.91	7,746.91	139.23	155.42	-90.00	-4,922.88	3,273.86	3,877.53	3,616.49	261.04	14.854		
14,500.00	7,806.90	7,746.90	7,746.90	140.96	155.42	-90.00	-4,922.88	3,273.86	3,949.77	3,689.10	260.67	15.152		
14,600.00	7,806.90	7,746.90	7,746.90	142.70	155.42	-90.00	-4,922.88	3,273.86	4,023.20	3,762.91	260.29	15.457		
14,700.00	7,806.90	7,746.90	7,746.90	144.43	155.42	-90.00	-4,922.88	3,273.86	4,097.76	3,837.86	259.90	15.767		
14,800.00	7,806.90	7,746.90	7,746.90	146.17	155.42	-90.00	-4,922.88	3,273.86	4,173.38	3,913.88	259.50	16.083		
14,900.00	7,806.90	7,746.90	7,746.90	147.91	155.42	-90.00	-4,922.88	3,273.86	4,250.01	3,990.92	259.09	16.404		
15,000.00	7,806.90	7,746.90	7,746.90	149.64	155.42	-90.00	-4,922.88	3,273.86	4,327.59	4,068.92	258.68	16.730		
15,100.00	7,806.89	7,746.89	7,746.89	151.38	155.42	-90.00	-4,922.88	3,273.86	4,406.08	4,147.82	258.26	17.061		
15,200.00	7,806.89	7,746.89	7,746.89	153.12	155.42	-90.00	-4,922.88	3,273.86	4,485.42	4,227.58	257.84	17.396		
15,300.00	7,806.89	7,746.89	7,746.89	154.86	155.42	-90.00	-4,922.88	3,273.86	4,565.58	4,308.15	257.42	17.736		
15,400.00	7,806.89	7,746.89	7,746.89	156.60	155.42	-90.00	-4,922.88	3,273.86	4,646.50	4,389.49	257.01	18.079		
15,500.00	7,806.89	7,746.89	7,746.89	158.35	155.42	-90.00	-4,922.88	3,273.86	4,728.15	4,471.56	256.59	18.427		
15,600.00	7,806.89	7,746.89	7,746.89	160.09	155.42	-90.00	-4,922.88	3,273.86	4,810.50	4,554.32	256.18	18.778		
15,700.00	7,806.89	7,746.89	7,746.89	161.83	155.42	-90.00	-4,922.88	3,273.86	4,893.50	4,637.74	255.77	19.133		
15,800.00	7,806.88	7,746.88	7,746.88	163.57	155.42	-90.00	-4,922.88	3,273.86	4,977.13	4,721.77	255.36	19.491		
15,900.00	7,806.88	7,746.88	7,746.88	165.32	155.42	-90.00	-4,922.88	3,273.86	5,061.36	4,806.40	254.96	19.852		
16,000.00	7,806.88	7,746.88	7,746.88	167.06	155.42	-90.00	-4,922.88	3,273.86	5,146.14	4,891.58	254.56	20.216		
16,100.00	7,806.88	7,746.88	7,746.88	168.81	155.42	-90.00	-4,922.88	3,273.86	5,231.47	4,977.30	254.17	20.582		
16,200.00	7,806.88	7,746.88	7,746.88	170.56	155.42	-90.00	-4,922.88	3,273.86	5,317.31	5,063.52	253.79	20.952		
16,300.00	7,806.88	7,746.88	7,746.88	172.30	155.42	-90.00	-4,922.88	3,273.86	5,403.63	5,150.22	253.41	21.324		
16,400.00	7,806.87	7,746.87	7,746.87	174.05	155.42	-90.00	-4,922.88	3,273.86	5,490.42	5,237.38	253.03	21.698		
16,500.00	7,806.87	7,746.87	7,746.87	175.80	155.42	-90.00	-4,922.88	3,273.86	5,577.65	5,324.98	252.67	22.075		
16,600.00	7,806.87	7,746.87	7,746.87	177.55	155.42	-90.00	-4,922.88	3,273.86	5,665.30	5,413.00	252.31	22.454		
16,700.00	7,806.87	7,746.87	7,746.87	179.30	155.42	-90.00	-4,922.88	3,273.86	5,753.36	5,501.40	251.95	22.835		
16,800.00	7,806.87	7,746.87	7,746.87	181.04	155.42	-90.00	-4,922.88	3,273.86	5,841.80	5,590.19	251.61	23.218		
16,900.00	7,806.87	7,746.87	7,746.87	182.79	155.42	-90.00	-4,922.88	3,273.86	5,930.60	5,679.34	251.26	23.603		
17,000.00	7,806.87	7,746.87	7,746.87	184.54	155.42	-90.00	-4,922.88	3,273.86	6,019.76	5,768.83	250.93	23.990		
17,100.00	7,806.86	7,746.86	7,746.86	186.30	155.42	-90.00	-4,922.88	3,273.86	6,109.26	5,858.65	250.60	24.378		
17,200.00	7,806.86	7,746.86	7,746.86	188.05	155.42	-90.00	-4,922.88	3,273.86	6,199.07	5,948.79	250.28	24.768		
17,300.00	7,806.86	7,746.86	7,746.86	189.80	155.42	-90.00	-4,922.88	3,273.86	6,289.19	6,039.23	249.97	25.160		
17,400.00	7,806.86	7,746.86	7,746.86	191.55	155.42	-90.00	-4,922.88	3,273.86	6,379.61	6,129.95	249.66	25.553		
17,500.00	7,806.86	7,746.86	7,746.86	193.30	155.42	-90.00	-4,922.88	3,273.86	6,470.31	6,220.95	249.36	25.948		
17,600.00	7,806.86	7,746.86	7,746.86	195.06	155.42	-90.00	-4,922.88	3,273.86	6,561.28	6,312.21	249.07	26.344		
17,700.00	7,806.85	7,746.85	7,746.85	196.81	155.42	-90.00	-4,922.88	3,273.86	6,652.51	6,403.73	248.78	26.741		
17,800.00	7,806.85	7,746.85	7,746.85	198.56	155.42	-90.00	-4,922.88	3,273.86	6,743.99	6,495.49	248.50	27.139		
17,898.35	7,807.00	7,747.00	7,747.00	200.29	155.42	-90.00	-4,922.88	3,273.86	6,834.19	6,585.96	248.23	27.532		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	123.18	-4,407.10	6,740.40	8,053.67					
100.00	100.00	22.00	22.00	0.13	0.26	123.18	-4,407.10	6,740.40	8,053.29	8,052.90	0.40	N/A		
200.00	200.00	122.00	122.00	0.49	1.70	123.18	-4,407.10	6,740.40	8,053.29	8,051.10	2.19	3,669.187		
300.00	300.00	222.00	222.00	0.85	3.95	123.18	-4,407.10	6,740.40	8,053.29	8,048.50	4.80	1,679.003		
400.00	400.00	322.00	322.00	1.21	6.02	123.18	-4,407.10	6,740.40	8,053.29	8,046.07	7.23	1,114.594		
500.00	500.00	422.00	422.00	1.57	8.05	123.18	-4,407.10	6,740.40	8,053.29	8,043.67	9.62	836.872		
600.00	600.00	522.00	522.00	1.93	10.08	123.18	-4,407.10	6,740.40	8,053.29	8,041.28	12.01	670.592		
700.00	700.00	622.00	622.00	2.29	12.10	123.18	-4,407.10	6,740.40	8,053.29	8,038.90	14.39	559.656		
800.00	800.00	722.00	722.00	2.64	14.12	123.18	-4,407.10	6,740.40	8,053.29	8,036.53	16.77	480.306		
900.00	900.00	822.00	822.00	3.00	16.14	123.18	-4,407.10	6,740.40	8,053.29	8,034.15	19.14	420.706		
1,000.00	1,000.00	922.00	922.00	3.36	18.16	123.18	-4,407.10	6,740.40	8,053.29	8,031.78	21.52	374.288		
1,100.00	1,100.00	1,022.00	1,022.00	3.72	20.17	123.18	-4,407.10	6,740.40	8,053.29	8,029.40	23.89	337.108		
1,200.00	1,200.00	1,122.00	1,122.00	4.08	22.18	123.18	-4,407.10	6,740.40	8,053.29	8,027.03	26.26	306.655		
1,300.00	1,300.00	1,222.00	1,222.00	4.44	24.20	123.18	-4,407.10	6,740.40	8,053.29	8,024.66	28.63	281.253		
1,400.00	1,399.98	1,321.98	1,321.98	4.78	26.21	-28.14	-4,407.10	6,740.40	8,051.75	8,020.77	30.99	259.836		
1,500.00	1,499.84	1,421.84	1,421.84	5.11	28.22	-28.20	-4,407.10	6,740.40	8,047.14	8,013.81	33.33	241.466		
1,600.00	1,599.45	1,521.45	1,521.45	5.44	30.22	-28.30	-4,407.10	6,740.40	8,039.46	8,003.79	35.66	225.423		
1,700.00	1,698.70	1,620.70	1,620.70	5.79	32.22	-28.45	-4,407.10	6,740.40	8,028.71	7,990.72	38.00	211.290		
1,800.00	1,797.47	1,719.47	1,719.47	6.15	34.21	-28.63	-4,407.10	6,740.40	8,014.93	7,974.60	40.33	198.740		
1,900.00	1,895.62	1,817.62	1,817.62	6.53	36.18	-28.86	-4,407.10	6,740.40	7,998.13	7,955.48	42.65	187.518		
1,912.93	1,908.27	1,830.27	1,830.27	6.58	36.44	-28.89	-4,407.10	6,740.40	7,995.74	7,952.79	42.95	186.144		
2,000.00	1,993.35	1,915.35	1,915.35	6.93	38.15	-28.96	-4,407.10	6,740.40	7,979.48	7,934.50	44.97	177.426		
2,100.00	2,091.07	2,013.07	2,013.07	7.34	40.12	-29.03	-4,407.10	6,740.40	7,960.81	7,913.51	47.30	168.311		
2,200.00	2,188.79	2,110.79	2,110.79	7.77	42.08	-29.11	-4,407.10	6,740.40	7,942.15	7,892.52	49.63	160.029		
2,300.00	2,286.51	2,208.51	2,208.51	8.20	44.05	-29.18	-4,407.10	6,740.40	7,923.50	7,871.54	51.97	152.476		
2,400.00	2,384.23	2,306.23	2,306.23	8.65	46.01	-29.25	-4,407.10	6,740.40	7,904.87	7,850.56	54.31	145.560		
2,500.00	2,481.95	2,403.95	2,403.95	9.10	47.98	-29.33	-4,407.10	6,740.40	7,886.25	7,829.60	56.65	139.206		
2,600.00	2,579.67	2,501.67	2,501.67	9.56	49.95	-29.41	-4,407.10	6,740.40	7,867.65	7,808.65	59.00	133.349		
2,700.00	2,677.39	2,600.61	2,599.39	10.02	51.94	-29.48	-4,407.10	6,740.40	7,849.06	7,787.68	61.38	127.883		
2,800.00	2,775.11	2,702.89	2,697.11	10.49	53.99	-29.56	-4,407.10	6,740.40	7,830.48	7,766.65	63.82	122.690		
2,900.00	2,872.83	2,805.17	2,794.83	10.96	56.05	-29.63	-4,407.10	6,740.40	7,811.91	7,745.64	66.27	117.876		
3,000.00	2,970.55	2,907.45	2,892.55	11.44	58.11	-29.71	-4,407.10	6,740.40	7,793.36	7,724.64	68.72	113.401		
3,100.00	3,068.27	3,009.73	2,990.27	11.92	60.16	-29.79	-4,407.10	6,740.40	7,774.82	7,703.65	71.18	109.231		
3,200.00	3,165.99	3,087.99	3,087.99	12.40	61.74	-29.86	-4,407.10	6,740.40	7,756.30	7,683.15	73.15	106.033		
3,300.00	3,263.71	3,185.71	3,185.71	12.88	63.70	-29.94	-4,407.10	6,740.40	7,737.79	7,662.27	75.52	102.466		
3,400.00	3,361.43	3,283.43	3,283.43	13.37	65.67	-30.02	-4,407.10	6,740.40	7,719.29	7,641.41	77.88	99.114		
3,500.00	3,459.15	3,381.15	3,381.15	13.86	67.63	-30.10	-4,407.10	6,740.40	7,700.81	7,620.56	80.25	95.958		
3,600.00	3,556.87	3,478.87	3,478.87	14.35	69.60	-30.18	-4,407.10	6,740.40	7,682.35	7,599.72	82.62	92.981		
3,700.00	3,654.59	3,576.59	3,576.59	14.84	71.57	-30.26	-4,407.10	6,740.40	7,663.89	7,578.90	84.99	90.170		
3,800.00	3,752.31	3,674.31	3,674.31	15.34	73.53	-30.34	-4,407.10	6,740.40	7,645.45	7,558.09	87.37	87.510		
3,900.00	3,850.03	3,772.03	3,772.03	15.83	75.50	-30.42	-4,407.10	6,740.40	7,627.03	7,537.29	89.74	84.989		
4,000.00	3,947.75	3,869.75	3,869.75	16.33	77.46	-30.50	-4,407.10	6,740.40	7,608.62	7,516.50	92.12	82.598		
4,100.00	4,045.47	3,967.47	3,967.47	16.83	79.43	-30.58	-4,407.10	6,740.40	7,590.23	7,495.73	94.49	80.326		
4,200.00	4,143.19	4,065.19	4,065.19	17.32	81.39	-30.66	-4,407.10	6,740.40	7,571.85	7,474.97	96.87	78.165		
4,300.00	4,240.91	4,162.91	4,162.91	17.82	83.36	-30.74	-4,407.10	6,740.40	7,553.48	7,454.23	99.25	76.106		
4,400.00	4,338.63	4,260.63	4,260.63	18.32	85.32	-30.82	-4,407.10	6,740.40	7,535.13	7,433.50	101.63	74.144		
4,500.00	4,436.35	4,358.35	4,358.35	18.82	87.29	-30.91	-4,407.10	6,740.40	7,516.80	7,412.79	104.01	72.271		
4,600.00	4,534.07	4,456.07	4,456.07	19.33	89.25	-30.99	-4,407.10	6,740.40	7,498.48	7,392.09	106.39	70.481		
4,700.00	4,631.79	4,553.79	4,553.79	19.83	91.22	-31.07	-4,407.10	6,740.40	7,480.17	7,371.40	108.77	68.769		
4,800.00	4,729.51	4,651.51	4,651.51	20.33	93.18	-31.16	-4,407.10	6,740.40	7,461.88	7,350.73	111.15	67.131		
4,900.00	4,827.23	4,749.23	4,749.23	20.83	95.15	-31.24	-4,407.10	6,740.40	7,443.61	7,330.07	113.54	65.560		
5,000.00	4,924.95	4,846.95	4,846.95	21.34	97.11	-31.32	-4,407.10	6,740.40	7,425.35	7,309.43	115.92	64.054		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,944.67	4,944.67	21.84	99.08	-31.41	-4,407.10	6,740.40	7,407.11	7,288.81	118.31	62.609		
5,200.00	5,120.39	5,042.39	5,042.39	22.35	101.04	-31.49	-4,407.10	6,740.40	7,388.89	7,268.19	120.69	61.220		
5,300.00	5,218.11	5,140.11	5,140.11	22.85	103.01	-31.58	-4,407.10	6,740.40	7,370.68	7,247.60	123.08	59.885		
5,400.00	5,315.83	5,237.83	5,237.83	23.36	104.97	-31.67	-4,407.10	6,740.40	7,352.49	7,227.02	125.47	58.601		
5,500.00	5,413.55	5,335.55	5,335.55	23.86	106.94	-31.75	-4,407.10	6,740.40	7,334.31	7,206.45	127.86	57.364		
5,600.00	5,511.27	5,433.27	5,433.27	24.37	108.90	-31.84	-4,407.10	6,740.40	7,316.15	7,185.90	130.24	56.172		
5,700.00	5,608.99	5,503.00	5,503.00	24.88	110.31	-31.90	-4,407.10	6,740.40	7,298.06	7,165.98	132.08	55.255		
5,800.00	5,706.71	5,503.00	5,503.00	25.38	110.31	-31.90	-4,407.10	6,740.40	7,280.96	7,148.45	132.52	54.944		
5,900.00	5,804.43	5,503.00	5,503.00	25.89	110.31	-31.90	-4,407.10	6,740.40	7,265.20	7,132.27	132.93	54.653		
6,000.00	5,902.15	5,503.00	5,503.00	26.40	110.31	-31.90	-4,407.10	6,740.40	7,250.79	7,117.46	133.33	54.384		
6,100.00	5,999.87	5,503.00	5,503.00	26.91	110.31	-31.90	-4,407.10	6,740.40	7,237.73	7,104.03	133.70	54.135		
6,200.00	6,097.59	5,503.00	5,503.00	27.42	110.31	-31.90	-4,407.10	6,740.40	7,226.03	7,091.98	134.05	53.907		
6,300.00	6,195.30	5,503.00	5,503.00	27.92	110.31	-31.90	-4,407.10	6,740.40	7,215.70	7,081.33	134.37	53.700		
6,400.00	6,293.02	5,503.00	5,503.00	28.43	110.31	-31.90	-4,407.10	6,740.40	7,206.74	7,072.06	134.67	53.513		
6,500.00	6,390.74	5,503.00	5,503.00	28.94	110.31	-31.90	-4,407.10	6,740.40	7,199.15	7,064.20	134.95	53.347		
6,600.00	6,488.46	5,503.00	5,503.00	29.45	110.31	-31.90	-4,407.10	6,740.40	7,192.95	7,057.75	135.20	53.202		
6,638.14	6,525.73	5,503.00	5,503.00	29.64	110.31	-31.90	-4,407.10	6,740.40	7,190.95	7,055.66	135.29	53.151		
6,700.00	6,586.32	5,503.00	5,503.00	29.95	110.31	-31.88	-4,407.10	6,740.40	7,188.71	7,053.28	135.43	53.082		
6,752.52	6,637.97	5,503.00	5,503.00	30.20	110.31	-31.87	-4,407.10	6,740.40	7,188.10	7,052.58	135.53	53.039		
6,800.00	6,684.79	5,503.00	5,503.00	30.42	110.31	-31.88	-4,407.10	6,740.40	7,188.60	7,052.99	135.61	53.010		
6,900.00	6,783.81	5,503.00	5,503.00	30.85	110.31	-31.92	-4,407.10	6,740.40	7,192.84	7,057.09	135.75	52.987		
7,000.00	6,883.25	5,503.00	5,503.00	31.24	110.31	-32.01	-4,407.10	6,740.40	7,201.42	7,065.58	135.84	53.014		
7,100.00	6,983.00	5,503.00	5,503.00	31.60	110.31	-32.15	-4,407.10	6,740.40	7,214.32	7,078.43	135.89	53.089		
7,200.00	7,082.93	5,503.00	5,503.00	31.92	110.31	-32.34	-4,407.10	6,740.40	7,231.49	7,095.59	135.90	53.213		
7,251.07	7,134.00	5,503.00	5,503.00	32.06	110.31	118.85	-4,407.10	6,740.40	7,241.90	7,106.02	135.88	53.297		
7,300.00	7,182.93	5,503.00	5,503.00	32.19	110.31	118.85	-4,407.10	6,740.40	7,252.55	7,116.70	135.85	53.388		
7,351.07	7,234.00	5,503.00	5,503.00	32.32	110.31	118.85	-4,407.10	6,740.40	7,264.00	7,128.19	135.81	53.487		
7,400.00	7,282.87	5,503.00	5,503.00	32.47	110.31	-59.90	-4,407.10	6,740.40	7,274.28	7,138.50	135.78	53.573		
7,450.00	7,332.44	5,503.00	5,503.00	32.67	110.31	-59.14	-4,407.10	6,740.40	7,283.00	7,147.21	135.79	53.635		
7,500.00	7,381.26	5,503.00	5,503.00	32.90	110.31	-58.55	-4,407.10	6,740.40	7,289.84	7,154.02	135.82	53.674		
7,550.00	7,428.96	5,503.00	5,503.00	33.18	110.31	-58.12	-4,407.10	6,740.40	7,294.76	7,158.89	135.87	53.690		
7,600.00	7,475.17	5,503.00	5,503.00	33.48	110.31	-57.87	-4,407.10	6,740.40	7,297.72	7,161.78	135.95	53.680		
7,650.00	7,519.55	5,503.00	5,503.00	33.82	110.31	-57.79	-4,407.10	6,740.40	7,298.71	7,162.66	136.05	53.646		
7,700.00	7,561.76	5,503.00	5,503.00	34.20	110.31	-57.87	-4,407.10	6,740.40	7,297.72	7,161.53	136.18	53.587		
7,750.00	7,601.47	5,503.00	5,503.00	34.60	110.31	-58.13	-4,407.10	6,740.40	7,294.75	7,158.41	136.35	53.502		
7,800.00	7,638.39	5,503.00	5,503.00	35.04	110.31	-58.55	-4,407.10	6,740.40	7,289.83	7,153.29	136.54	53.391		
7,850.00	7,672.23	5,503.00	5,503.00	35.50	110.31	-59.14	-4,407.10	6,740.40	7,282.98	7,146.23	136.76	53.255		
7,900.00	7,702.74	5,503.00	5,503.00	35.99	110.31	-59.90	-4,407.10	6,740.40	7,274.26	7,137.25	137.01	53.093		
7,950.00	7,729.67	5,503.00	5,503.00	36.50	110.31	-60.84	-4,407.10	6,740.40	7,263.73	7,126.43	137.29	52.906		
8,000.00	7,752.84	5,503.00	5,503.00	37.04	110.31	-61.95	-4,407.10	6,740.40	7,251.45	7,113.84	137.61	52.695		
8,050.00	7,772.06	5,503.00	5,503.00	37.60	110.31	-63.24	-4,407.10	6,740.40	7,237.52	7,099.55	137.96	52.459		
8,100.00	7,787.18	5,503.00	5,503.00	38.17	110.31	-64.70	-4,407.10	6,740.40	7,222.02	7,083.67	138.35	52.202		
8,150.00	7,798.10	5,503.00	5,503.00	38.76	110.31	-66.34	-4,407.10	6,740.40	7,205.07	7,066.31	138.76	51.924		
8,200.00	7,804.72	5,503.00	5,503.00	39.36	110.31	-68.15	-4,407.10	6,740.40	7,186.79	7,047.58	139.20	51.627		
8,251.15	7,807.00	5,503.00	5,503.00	39.97	110.31	-70.18	-4,407.10	6,740.40	7,166.84	7,027.15	139.69	51.306		
8,300.00	7,807.00	5,503.00	5,503.00	40.56	110.31	-70.18	-4,407.10	6,740.40	7,147.37	7,007.21	140.17	50.991		
8,400.00	7,807.00	5,503.00	5,503.00	41.80	110.31	-70.18	-4,407.10	6,740.40	7,108.41	6,967.20	141.20	50.341		
8,500.00	7,807.00	5,503.00	5,503.00	43.08	110.31	-70.18	-4,407.10	6,740.40	7,070.64	6,928.34	142.30	49.687		
8,600.00	7,806.99	5,503.00	5,503.00	44.40	110.31	-70.18	-4,407.10	6,740.40	7,034.09	6,890.63	143.46	49.031		
8,700.00	7,806.99	5,503.00	5,503.00	45.74	110.31	-70.18	-4,407.10	6,740.40	6,998.78	6,854.10	144.68	48.375		
8,800.00	7,806.99	5,503.00	5,503.00	47.11	110.31	-70.18	-4,407.10	6,740.40	6,964.73	6,818.78	145.95	47.721		
8,900.00	7,806.99	5,503.00	5,503.00	48.51	110.31	-70.18	-4,407.10	6,740.40	6,931.95	6,784.68	147.26	47.072		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,000.00	7,806.99	5,503.00	5,503.00	49.93	110.31	-70.18	-4,407.10	6,740.40	6,900.46	6,751.84	148.63	46.428		
9,100.00	7,806.99	5,503.00	5,503.00	51.38	110.31	-70.18	-4,407.10	6,740.40	6,870.29	6,720.26	150.03	45.793		
9,200.00	7,806.99	5,503.00	5,503.00	52.84	110.31	-70.18	-4,407.10	6,740.40	6,841.45	6,689.97	151.47	45.166		
9,300.00	7,806.98	5,503.00	5,503.00	54.32	110.31	-70.18	-4,407.10	6,740.40	6,813.95	6,660.99	152.95	44.549		
9,400.00	7,806.98	5,503.00	5,503.00	55.82	110.31	-70.18	-4,407.10	6,740.40	6,787.81	6,633.35	154.46	43.944		
9,500.00	7,806.98	5,503.00	5,503.00	57.34	110.31	-70.18	-4,407.10	6,740.40	6,763.05	6,607.05	156.01	43.351		
9,600.00	7,806.98	5,503.00	5,503.00	58.87	110.31	-70.18	-4,407.10	6,740.40	6,739.68	6,582.11	157.57	42.772		
9,700.00	7,806.98	5,503.00	5,503.00	60.41	110.31	-70.18	-4,407.10	6,740.40	6,717.73	6,558.56	159.17	42.206		
9,800.00	7,806.98	5,503.00	5,503.00	61.96	110.31	-70.18	-4,407.10	6,740.40	6,697.19	6,536.41	160.78	41.654		
9,900.00	7,806.97	5,503.00	5,503.00	63.53	110.31	-70.18	-4,407.10	6,740.40	6,678.08	6,515.67	162.41	41.118		
10,000.00	7,806.97	5,503.00	5,503.00	65.10	110.31	-70.18	-4,407.10	6,740.40	6,660.43	6,496.36	164.06	40.596		
10,100.00	7,806.97	5,503.00	5,503.00	66.69	110.31	-70.18	-4,407.10	6,740.40	6,644.23	6,478.50	165.73	40.091		
10,200.00	7,806.97	5,503.00	5,503.00	68.29	110.31	-70.18	-4,407.10	6,740.40	6,629.50	6,462.09	167.41	39.601		
10,300.00	7,806.97	5,503.00	5,503.00	69.89	110.31	-70.18	-4,407.10	6,740.40	6,616.25	6,447.16	169.10	39.127		
10,400.00	7,806.97	5,503.00	5,503.00	71.50	110.31	-70.18	-4,407.10	6,740.40	6,604.49	6,433.70	170.79	38.670		
10,500.00	7,806.97	5,503.00	5,503.00	73.12	110.31	-70.18	-4,407.10	6,740.40	6,594.22	6,421.73	172.49	38.229		
10,600.00	7,806.96	5,503.00	5,503.00	74.75	110.31	-70.18	-4,407.10	6,740.40	6,585.46	6,411.26	174.20	37.804		
10,700.00	7,806.96	5,503.00	5,503.00	76.38	110.31	-70.18	-4,407.10	6,740.40	6,578.20	6,402.30	175.91	37.396		
10,800.00	7,806.96	5,503.00	5,503.00	78.02	110.31	-70.18	-4,407.10	6,740.40	6,572.46	6,394.85	177.61	37.004		
10,900.00	7,806.96	5,503.00	5,503.00	79.66	110.31	-70.18	-4,407.10	6,740.40	6,568.24	6,388.92	179.32	36.628		
11,000.00	7,806.96	5,503.00	5,503.00	81.31	110.31	-70.18	-4,407.10	6,740.40	6,565.53	6,384.51	181.02	36.269		
11,100.00	7,806.96	5,503.00	5,503.00	82.97	110.31	-70.18	-4,407.10	6,740.40	6,564.35	6,381.63	182.72	35.926		
11,127.54	7,806.96	5,503.00	5,503.00	83.43	110.31	-70.18	-4,407.10	6,740.40	6,564.29	6,381.11	183.19	35.834 CC		
11,200.00	7,806.95	5,503.00	5,503.00	84.63	110.31	-70.18	-4,407.10	6,740.40	6,564.69	6,380.28	184.41	35.598 ES		
11,300.00	7,806.95	5,503.00	5,503.00	86.29	110.31	-70.18	-4,407.10	6,740.40	6,566.56	6,380.47	186.09	35.287		
11,400.00	7,806.95	5,503.00	5,503.00	87.96	110.31	-70.18	-4,407.10	6,740.40	6,569.95	6,382.18	187.76	34.991		
11,500.00	7,806.95	5,503.00	5,503.00	89.64	110.31	-70.18	-4,407.10	6,740.40	6,574.85	6,385.43	189.42	34.710		
11,600.00	7,806.95	5,503.00	5,503.00	91.31	110.31	-70.18	-4,407.10	6,740.40	6,581.27	6,390.21	191.07	34.445		
11,700.00	7,806.95	5,503.00	5,503.00	92.99	110.31	-70.18	-4,407.10	6,740.40	6,589.21	6,396.51	192.70	34.195		
11,800.00	7,806.95	5,503.00	5,503.00	94.68	110.31	-70.18	-4,407.10	6,740.40	6,598.65	6,404.34	194.31	33.959		
11,900.00	7,806.94	5,503.00	5,503.00	96.36	110.31	-70.18	-4,407.10	6,740.40	6,609.59	6,413.68	195.91	33.738		
12,000.00	7,806.94	5,503.00	5,503.00	98.05	110.31	-70.18	-4,407.10	6,740.40	6,622.02	6,424.53	197.49	33.531		
12,100.00	7,806.94	5,503.00	5,503.00	99.74	110.31	-70.18	-4,407.10	6,740.40	6,635.93	6,436.89	199.05	33.338		
12,200.00	7,806.94	5,503.00	5,503.00	101.44	110.31	-70.18	-4,407.10	6,740.40	6,651.32	6,450.74	200.59	33.159		
12,300.00	7,806.94	5,503.00	5,503.00	103.14	110.31	-70.18	-4,407.10	6,740.40	6,668.18	6,466.07	202.10	32.994		
12,400.00	7,806.94	5,503.00	5,503.00	104.84	110.31	-70.18	-4,407.10	6,740.40	6,686.49	6,482.89	203.60	32.841		
12,500.00	7,806.93	5,503.00	5,503.00	106.54	110.31	-70.18	-4,407.10	6,740.40	6,706.24	6,501.16	205.07	32.702		
12,600.00	7,806.93	5,503.00	5,503.00	108.25	110.31	-70.18	-4,407.10	6,740.40	6,727.41	6,520.89	206.52	32.575		
12,700.00	7,806.93	5,503.00	5,503.00	109.95	110.31	-70.18	-4,407.10	6,740.40	6,750.01	6,542.06	207.94	32.461		
12,800.00	7,806.93	5,503.00	5,503.00	111.66	110.31	-70.18	-4,407.10	6,740.40	6,774.00	6,564.66	209.34	32.359		
12,900.00	7,806.93	5,503.00	5,503.00	113.37	110.31	-70.18	-4,407.10	6,740.40	6,799.38	6,588.67	210.71	32.269		
13,000.00	7,806.93	5,503.00	5,503.00	115.09	110.31	-70.18	-4,407.10	6,740.40	6,826.13	6,614.07	212.05	32.190		
13,100.00	7,806.93	5,503.00	5,503.00	116.80	110.31	-70.18	-4,407.10	6,740.40	6,854.24	6,640.86	213.37	32.123		
13,200.00	7,806.92	5,503.00	5,503.00	118.52	110.31	-70.18	-4,407.10	6,740.40	6,883.68	6,669.02	214.66	32.067		
13,300.00	7,806.92	5,503.00	5,503.00	120.24	110.31	-70.18	-4,407.10	6,740.40	6,914.44	6,698.52	215.93	32.022		
13,400.00	7,806.92	5,503.00	5,503.00	121.96	110.31	-70.18	-4,407.10	6,740.40	6,946.51	6,729.35	217.16	31.988		
13,500.00	7,806.92	5,503.00	5,503.00	123.68	110.31	-70.18	-4,407.10	6,740.40	6,979.86	6,761.50	218.37	31.964		
13,600.00	7,806.92	5,503.00	5,503.00	125.40	110.31	-70.18	-4,407.10	6,740.40	7,014.48	6,794.94	219.55	31.950		
13,700.00	7,806.92	5,503.00	5,503.00	127.12	110.31	-70.18	-4,407.10	6,740.40	7,050.35	6,829.65	220.70	31.946 SF		
13,800.00	7,806.91	5,503.00	5,503.00	128.85	110.31	-70.18	-4,407.10	6,740.40	7,087.45	6,865.63	221.82	31.951		
13,900.00	7,806.91	5,503.00	5,503.00	130.58	110.31	-70.18	-4,407.10	6,740.40	7,125.76	6,902.84	222.92	31.966		
14,000.00	7,806.91	5,503.00	5,503.00	132.30	110.31	-70.18	-4,407.10	6,740.40	7,165.26	6,941.28	223.98	31.990		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	5,503.00	5,503.00	134.03	110.31	-70.18	-4,407.10	6,740.40	7,205.93	6,980.91	225.02	32.023		
14,200.00	7,806.91	5,503.00	5,503.00	135.76	110.31	-70.18	-4,407.10	6,740.40	7,247.75	7,021.72	226.04	32.065		
14,300.00	7,806.91	5,503.00	5,503.00	137.50	110.31	-70.18	-4,407.10	6,740.40	7,290.71	7,063.69	227.02	32.115		
14,400.00	7,806.91	5,503.00	5,503.00	139.23	110.31	-70.18	-4,407.10	6,740.40	7,334.78	7,106.80	227.98	32.173		
14,500.00	7,806.90	5,503.00	5,503.00	140.96	110.31	-70.18	-4,407.10	6,740.40	7,379.93	7,151.03	228.91	32.240		
14,600.00	7,806.90	5,503.00	5,503.00	142.70	110.31	-70.18	-4,407.10	6,740.40	7,426.16	7,196.35	229.81	32.314		
14,700.00	7,806.90	5,503.00	5,503.00	144.43	110.31	-70.18	-4,407.10	6,740.40	7,473.45	7,242.76	230.69	32.396		
14,800.00	7,806.90	5,503.00	5,503.00	146.17	110.31	-70.18	-4,407.10	6,740.40	7,521.76	7,290.22	231.54	32.486		
14,900.00	7,806.90	5,503.00	5,503.00	147.91	110.31	-70.18	-4,407.10	6,740.40	7,571.09	7,338.72	232.37	32.582		
15,000.00	7,806.90	5,503.00	5,503.00	149.64	110.31	-70.18	-4,407.10	6,740.40	7,621.41	7,388.24	233.17	32.686		
15,100.00	7,806.89	5,503.00	5,503.00	151.38	110.31	-70.18	-4,407.10	6,740.40	7,672.70	7,438.76	233.95	32.797		
15,200.00	7,806.89	5,503.00	5,503.00	153.12	110.31	-70.18	-4,407.10	6,740.40	7,724.95	7,490.25	234.70	32.914		
15,300.00	7,806.89	5,503.00	5,503.00	154.86	110.31	-70.18	-4,407.10	6,740.40	7,778.13	7,542.71	235.43	33.038		
15,400.00	7,806.89	5,503.00	5,503.00	156.60	110.31	-70.18	-4,407.10	6,740.40	7,832.23	7,596.10	236.13	33.169		
15,500.00	7,806.89	5,503.00	5,503.00	158.35	110.31	-70.18	-4,407.10	6,740.40	7,887.23	7,650.41	236.82	33.305		
15,600.00	7,806.89	5,503.00	5,503.00	160.09	110.31	-70.18	-4,407.10	6,740.40	7,943.10	7,705.62	237.48	33.448		
15,700.00	7,806.89	5,503.00	5,503.00	161.83	110.31	-70.18	-4,407.10	6,740.40	7,999.83	7,761.71	238.12	33.596		
15,800.00	7,806.88	5,503.00	5,503.00	163.57	110.31	-70.18	-4,407.10	6,740.40	8,057.41	7,818.67	238.74	33.750		
15,900.00	7,806.88	5,503.00	5,503.00	165.32	110.31	-70.18	-4,407.10	6,740.40	8,115.81	7,876.47	239.33	33.910		
16,000.00	7,806.88	5,503.00	5,503.00	167.06	110.31	-70.18	-4,407.10	6,740.40	8,175.01	7,935.10	239.91	34.075		
16,100.00	7,806.88	5,503.00	5,503.00	168.81	110.31	-70.18	-4,407.10	6,740.40	8,235.00	7,994.53	240.47	34.246		
16,200.00	7,806.88	5,503.00	5,503.00	170.56	110.31	-70.18	-4,407.10	6,740.40	8,295.77	8,054.76	241.01	34.421		
16,300.00	7,806.88	5,503.00	5,503.00	172.30	110.31	-70.18	-4,407.10	6,740.40	8,357.29	8,115.76	241.53	34.602		
16,400.00	7,806.87	5,503.00	5,503.00	174.05	110.31	-70.18	-4,407.10	6,740.40	8,419.55	8,177.52	242.03	34.787		
16,500.00	7,806.87	5,503.00	5,503.00	175.80	110.31	-70.18	-4,407.10	6,740.40	8,482.53	8,240.01	242.51	34.978		
16,600.00	7,806.87	5,503.00	5,503.00	177.55	110.31	-70.18	-4,407.10	6,740.40	8,546.21	8,303.23	242.98	35.172		
16,700.00	7,806.87	5,503.00	5,503.00	179.30	110.31	-70.18	-4,407.10	6,740.40	8,610.59	8,367.16	243.43	35.372		
16,800.00	7,806.87	5,503.00	5,503.00	181.04	110.31	-70.18	-4,407.10	6,740.40	8,675.64	8,431.77	243.86	35.576		
16,900.00	7,806.87	5,503.00	5,503.00	182.79	110.31	-70.18	-4,407.10	6,740.40	8,741.35	8,497.07	244.28	35.784		
17,000.00	7,806.87	5,503.00	5,503.00	184.54	110.31	-70.18	-4,407.10	6,740.40	8,807.71	8,563.02	244.69	35.996		
17,100.00	7,806.86	5,503.00	5,503.00	186.30	110.31	-70.18	-4,407.10	6,740.40	8,874.69	8,629.62	245.08	36.212		
17,200.00	7,806.86	5,503.00	5,503.00	188.05	110.31	-70.18	-4,407.10	6,740.40	8,942.30	8,696.85	245.45	36.432		
17,300.00	7,806.86	5,503.00	5,503.00	189.80	110.31	-70.18	-4,407.10	6,740.40	9,010.50	8,764.69	245.81	36.656		
17,400.00	7,806.86	5,503.00	5,503.00	191.55	110.31	-70.18	-4,407.10	6,740.40	9,079.30	8,833.14	246.16	36.884		
17,500.00	7,806.86	5,503.00	5,503.00	193.30	110.31	-70.18	-4,407.10	6,740.40	9,148.67	8,902.18	246.49	37.116		
17,600.00	7,806.86	5,503.00	5,503.00	195.06	110.31	-70.18	-4,407.10	6,740.40	9,218.60	8,971.79	246.81	37.351		
17,700.00	7,806.85	5,503.00	5,503.00	196.81	110.31	-70.18	-4,407.10	6,740.40	9,289.09	9,041.97	247.12	37.589		
17,800.00	7,806.85	5,503.00	5,503.00	198.56	110.31	-70.18	-4,407.10	6,740.40	9,360.11	9,112.69	247.42	37.831		
17,898.35	7,807.00	5,503.00	5,503.00	200.29	110.31	-70.18	-4,407.10	6,740.40	9,430.50	9,182.81	247.70	38.073		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	129.39	-5,395.05	6,571.19	8,502.82					
100.00	100.00	4.00	-4.00	0.13	0.05	129.39	-5,395.05	6,571.19	8,502.18	8,502.00	0.18	N/A		
200.00	200.00	104.00	96.00	0.49	1.29	129.39	-5,395.05	6,571.19	8,502.18	8,500.40	1.78	4,769.254		
300.00	300.00	204.00	196.00	0.85	3.57	129.39	-5,395.05	6,571.19	8,502.18	8,497.76	4.42	1,922.537		
400.00	400.00	304.00	296.00	1.21	5.65	129.39	-5,395.05	6,571.19	8,502.18	8,495.32	6.86	1,239.796		
500.00	500.00	404.00	396.00	1.57	7.69	129.39	-5,395.05	6,571.19	8,502.18	8,492.92	9.26	918.374		
600.00	600.00	504.00	496.00	1.93	9.72	129.39	-5,395.05	6,571.19	8,502.18	8,490.54	11.65	730.106		
700.00	700.00	604.00	596.00	2.29	11.74	129.39	-5,395.05	6,571.19	8,502.18	8,488.15	14.03	606.162		
800.00	800.00	704.00	696.00	2.64	13.76	129.39	-5,395.05	6,571.19	8,502.18	8,485.78	16.40	518.302		
900.00	900.00	804.00	796.00	3.00	15.78	129.39	-5,395.05	6,571.19	8,502.18	8,483.40	18.78	452.738		
1,000.00	1,000.00	904.00	896.00	3.36	17.79	129.39	-5,395.05	6,571.19	8,502.18	8,481.03	21.15	401.925		
1,100.00	1,100.00	1,004.00	996.00	3.72	19.81	129.39	-5,395.05	6,571.19	8,502.18	8,478.65	23.53	361.382		
1,200.00	1,200.00	1,104.00	1,096.00	4.08	21.82	129.39	-5,395.05	6,571.19	8,502.18	8,476.28	25.90	328.278		
1,300.00	1,300.00	1,204.00	1,196.00	4.44	23.84	129.39	-5,395.05	6,571.19	8,502.18	8,473.91	28.27	300.735		
1,400.00	1,399.98	1,304.02	1,295.98	4.78	25.85	-21.93	-5,395.05	6,571.19	8,500.56	8,469.94	30.63	277.557		
1,500.00	1,499.84	1,404.16	1,395.84	5.11	27.86	-21.98	-5,395.05	6,571.19	8,495.71	8,462.74	32.97	257.674		
1,600.00	1,599.45	1,504.55	1,495.45	5.44	29.88	-22.06	-5,395.05	6,571.19	8,487.62	8,452.30	35.32	240.280		
1,700.00	1,698.70	1,605.30	1,594.70	5.79	31.91	-22.18	-5,395.05	6,571.19	8,476.32	8,438.63	37.69	224.906		
1,800.00	1,797.47	1,706.53	1,693.47	6.15	33.95	-22.33	-5,395.05	6,571.19	8,461.82	8,421.75	40.07	211.194		
1,900.00	1,895.62	1,808.38	1,791.62	6.53	36.00	-22.51	-5,395.05	6,571.19	8,444.13	8,401.67	42.46	198.865		
1,912.93	1,908.27	1,804.27	1,804.27	6.58	35.92	-22.54	-5,395.05	6,571.19	8,441.61	8,399.19	42.43	198.971		
2,000.00	1,993.35	1,889.35	1,889.35	6.93	37.63	-22.59	-5,395.05	6,571.19	8,424.49	8,380.04	44.44	189.567		
2,100.00	2,091.07	1,987.07	1,987.07	7.34	39.59	-22.64	-5,395.05	6,571.19	8,404.82	8,358.06	46.76	179.746		
2,200.00	2,188.79	2,084.79	2,084.79	7.77	41.56	-22.70	-5,395.05	6,571.19	8,385.16	8,336.08	49.08	170.834		
2,300.00	2,286.51	2,182.51	2,182.51	8.20	43.52	-22.75	-5,395.05	6,571.19	8,365.51	8,314.10	51.41	162.714		
2,400.00	2,384.23	2,280.23	2,280.23	8.65	45.49	-22.81	-5,395.05	6,571.19	8,345.87	8,292.12	53.74	155.287		
2,500.00	2,481.95	2,377.95	2,377.95	9.10	47.46	-22.87	-5,395.05	6,571.19	8,326.23	8,270.15	56.08	148.468		
2,600.00	2,579.67	2,475.67	2,475.67	9.56	49.42	-22.92	-5,395.05	6,571.19	8,306.61	8,248.19	58.42	142.187		
2,700.00	2,677.39	2,573.39	2,573.39	10.02	51.39	-22.98	-5,395.05	6,571.19	8,286.99	8,226.23	60.76	136.384		
2,800.00	2,775.11	2,671.11	2,671.11	10.49	53.35	-23.04	-5,395.05	6,571.19	8,267.38	8,204.27	63.11	131.006		
2,900.00	2,872.83	2,768.83	2,768.83	10.96	55.32	-23.10	-5,395.05	6,571.19	8,247.77	8,182.32	65.45	126.010		
3,000.00	2,970.55	2,866.55	2,866.55	11.44	57.28	-23.15	-5,395.05	6,571.19	8,228.18	8,160.38	67.80	121.355		
3,100.00	3,068.27	2,964.27	2,964.27	11.92	59.25	-23.21	-5,395.05	6,571.19	8,208.59	8,138.44	70.15	117.010		
3,200.00	3,165.99	3,061.99	3,061.99	12.40	61.22	-23.27	-5,395.05	6,571.19	8,189.01	8,116.51	72.51	112.944		
3,300.00	3,263.71	3,159.71	3,159.71	12.88	63.18	-23.33	-5,395.05	6,571.19	8,169.44	8,094.58	74.86	109.131		
3,400.00	3,361.43	3,257.43	3,257.43	13.37	65.15	-23.39	-5,395.05	6,571.19	8,149.88	8,072.67	77.21	105.549		
3,500.00	3,459.15	3,355.15	3,355.15	13.86	67.11	-23.45	-5,395.05	6,571.19	8,130.33	8,050.76	79.57	102.177		
3,600.00	3,556.87	3,452.87	3,452.87	14.35	69.08	-23.51	-5,395.05	6,571.19	8,110.78	8,028.85	81.93	98.998		
3,700.00	3,654.59	3,550.59	3,550.59	14.84	71.04	-23.57	-5,395.05	6,571.19	8,091.25	8,006.96	84.29	95.996		
3,800.00	3,752.31	3,648.31	3,648.31	15.34	73.01	-23.63	-5,395.05	6,571.19	8,071.72	7,985.07	86.65	93.156		
3,900.00	3,850.03	3,746.03	3,746.03	15.83	74.97	-23.69	-5,395.05	6,571.19	8,052.20	7,963.19	89.01	90.466		
4,000.00	3,947.75	3,843.75	3,843.75	16.33	76.94	-23.75	-5,395.05	6,571.19	8,032.69	7,941.32	91.37	87.914		
4,100.00	4,045.47	3,941.47	3,941.47	16.83	78.90	-23.81	-5,395.05	6,571.19	8,013.19	7,919.45	93.73	85.490		
4,200.00	4,143.19	4,039.19	4,039.19	17.32	80.87	-23.87	-5,395.05	6,571.19	7,993.69	7,897.60	96.10	83.184		
4,300.00	4,240.91	4,136.91	4,136.91	17.82	82.83	-23.93	-5,395.05	6,571.19	7,974.21	7,875.75	98.46	80.989		
4,400.00	4,338.63	4,234.63	4,234.63	18.32	84.80	-23.99	-5,395.05	6,571.19	7,954.73	7,853.91	100.83	78.896		
4,500.00	4,436.35	4,332.35	4,332.35	18.82	86.76	-24.05	-5,395.05	6,571.19	7,935.27	7,832.08	103.19	76.898		
4,600.00	4,534.07	4,430.07	4,430.07	19.33	88.73	-24.12	-5,395.05	6,571.19	7,915.81	7,810.25	105.56	74.990		
4,700.00	4,631.79	4,527.79	4,527.79	19.83	90.69	-24.18	-5,395.05	6,571.19	7,896.36	7,788.44	107.93	73.165		
4,800.00	4,729.51	4,625.51	4,625.51	20.33	92.66	-24.24	-5,395.05	6,571.19	7,876.92	7,766.63	110.29	71.418		
4,900.00	4,827.23	4,723.23	4,723.23	20.83	94.63	-24.31	-5,395.05	6,571.19	7,857.49	7,744.83	112.66	69.744		
5,000.00	4,924.95	4,820.95	4,820.95	21.34	96.59	-24.37	-5,395.05	6,571.19	7,838.07	7,723.04	115.03	68.139		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,918.67	4,918.67	21.84	98.56	-24.43	-5,395.05	6,571.19	7,818.66	7,701.26	117.40	66.598		
5,200.00	5,120.39	5,016.39	5,016.39	22.35	100.52	-24.50	-5,395.05	6,571.19	7,799.26	7,679.49	119.77	65.118		
5,300.00	5,218.11	5,114.11	5,114.11	22.85	102.49	-24.56	-5,395.05	6,571.19	7,779.87	7,657.73	122.14	63.695		
5,400.00	5,315.83	5,211.83	5,211.83	23.36	104.45	-24.63	-5,395.05	6,571.19	7,760.49	7,635.97	124.51	62.326		
5,500.00	5,413.55	5,309.55	5,309.55	23.86	106.42	-24.69	-5,395.05	6,571.19	7,741.12	7,614.23	126.89	61.008		
5,600.00	5,511.27	5,407.27	5,407.27	24.37	108.38	-24.76	-5,395.05	6,571.19	7,721.75	7,592.49	129.26	59.739		
5,700.00	5,608.99	5,504.99	5,504.99	24.88	110.35	-24.82	-5,395.05	6,571.19	7,702.40	7,570.77	131.63	58.515		
5,800.00	5,706.71	5,602.71	5,602.71	25.38	112.31	-24.89	-5,395.05	6,571.19	7,683.06	7,549.05	134.01	57.334		
5,900.00	5,804.43	5,700.43	5,700.43	25.89	114.28	-24.96	-5,395.05	6,571.19	7,663.72	7,527.34	136.38	56.194		
6,000.00	5,902.15	5,801.85	5,798.15	26.40	116.32	-25.02	-5,395.05	6,571.19	7,644.40	7,505.57	138.83	55.064		
6,100.00	5,999.87	5,904.14	5,895.87	26.91	118.37	-25.09	-5,395.05	6,571.19	7,625.09	7,483.79	141.30	53.966		
6,200.00	6,097.59	6,006.42	5,993.59	27.42	120.43	-25.16	-5,395.05	6,571.19	7,605.79	7,462.02	143.76	52.905		
6,300.00	6,195.30	6,108.70	6,091.30	27.92	122.49	-25.23	-5,395.05	6,571.19	7,586.49	7,440.26	146.23	51.880		
6,400.00	6,293.02	6,189.02	6,189.02	28.43	124.10	-25.29	-5,395.05	6,571.19	7,567.21	7,418.96	148.26	51.041		
6,500.00	6,390.74	6,286.74	6,286.74	28.94	126.07	-25.36	-5,395.05	6,571.19	7,547.94	7,397.31	150.63	50.108		
6,600.00	6,488.46	6,384.46	6,384.46	29.45	128.03	-25.43	-5,395.05	6,571.19	7,528.68	7,375.67	153.01	49.203		
6,638.14	6,525.73	6,421.73	6,421.73	29.64	128.78	-25.46	-5,395.05	6,571.19	7,521.34	7,367.42	153.92	48.866		
6,700.00	6,586.32	6,482.32	6,482.32	29.95	130.00	-25.40	-5,395.05	6,571.19	7,510.02	7,354.63	155.39	48.330		
6,800.00	6,684.79	6,580.79	6,580.79	30.42	131.98	-25.32	-5,395.05	6,571.19	7,494.26	7,336.49	157.77	47.502		
6,900.00	6,783.81	6,679.81	6,679.81	30.85	133.97	-25.26	-5,395.05	6,571.19	7,481.62	7,321.47	160.14	46.718		
7,000.00	6,883.25	6,779.25	6,779.25	31.24	135.97	-25.21	-5,395.05	6,571.19	7,472.12	7,309.61	162.51	45.979		
7,100.00	6,983.00	6,879.00	6,879.00	31.60	137.98	-25.18	-5,395.05	6,571.19	7,465.77	7,300.90	164.87	45.282		
7,200.00	7,082.93	6,978.93	6,978.93	31.92	139.99	-25.16	-5,395.05	6,571.19	7,462.58	7,295.35	167.22	44.627		
7,251.07	7,134.00	7,030.00	7,030.00	32.06	141.02	126.14	-5,395.05	6,571.19	7,462.16	7,293.75	168.41	44.309		
7,300.00	7,182.93	7,078.93	7,078.93	32.19	142.00	126.14	-5,395.05	6,571.19	7,462.16	7,292.62	169.54	44.014		
7,351.07	7,234.00	7,130.00	7,130.00	32.32	143.03	126.14	-5,395.05	6,571.19	7,462.16	7,291.44	170.72	43.710		
7,400.00	7,282.87	7,178.87	7,178.87	32.47	144.01	-53.64	-5,395.05	6,571.19	7,460.92	7,289.06	171.87	43.411		
7,450.00	7,332.44	7,228.44	7,228.44	32.67	145.01	-53.98	-5,395.05	6,571.19	7,457.10	7,284.04	173.06	43.089		
7,500.00	7,381.26	7,277.26	7,277.26	32.90	145.99	-54.57	-5,395.05	6,571.19	7,450.74	7,276.47	174.27	42.754		
7,550.00	7,428.96	7,324.96	7,324.96	33.18	146.95	-55.40	-5,395.05	6,571.19	7,441.89	7,266.42	175.47	42.410		
7,600.00	7,475.17	7,371.17	7,371.17	33.48	147.88	-56.47	-5,395.05	6,571.19	7,430.64	7,253.97	176.67	42.060		
7,650.00	7,519.55	7,415.55	7,415.55	33.82	148.77	-57.79	-5,395.05	6,571.19	7,417.10	7,239.26	177.85	41.705		
7,700.00	7,561.76	7,457.76	7,457.76	34.20	149.62	-59.36	-5,395.05	6,571.19	7,401.39	7,222.39	179.00	41.348		
7,750.00	7,601.47	7,502.53	7,497.47	34.60	150.52	-61.18	-5,395.05	6,571.19	7,383.67	7,203.44	180.22	40.969		
7,800.00	7,638.39	7,534.39	7,534.39	35.04	151.16	-63.25	-5,395.05	6,571.19	7,364.08	7,182.87	181.21	40.639		
7,850.00	7,672.23	7,568.23	7,568.23	35.50	151.84	-65.56	-5,395.05	6,571.19	7,342.81	7,160.57	182.24	40.291		
7,900.00	7,702.74	7,601.26	7,598.74	35.99	152.50	-68.10	-5,395.05	6,571.19	7,320.06	7,136.78	183.28	39.939		
7,950.00	7,729.67	7,625.67	7,625.67	36.50	152.99	-70.86	-5,395.05	6,571.19	7,296.03	7,111.87	184.16	39.618		
8,000.00	7,752.84	7,648.84	7,648.84	37.04	153.46	-73.80	-5,395.05	6,571.19	7,270.92	7,085.89	185.03	39.296		
8,050.00	7,772.06	7,668.06	7,668.06	37.60	153.85	-76.90	-5,395.05	6,571.19	7,244.96	7,059.13	185.83	38.986		
8,100.00	7,787.18	7,683.18	7,683.18	38.17	154.15	-80.11	-5,395.05	6,571.19	7,218.37	7,031.80	186.57	38.691		
8,150.00	7,798.10	7,705.90	7,694.10	38.76	154.61	-83.38	-5,395.05	6,571.19	7,191.37	7,003.90	187.46	38.361		
8,200.00	7,804.72	7,700.72	7,700.72	39.36	154.50	-86.67	-5,395.05	6,571.19	7,164.18	6,976.37	187.81	38.146		
8,251.15	7,807.00	7,703.00	7,703.00	39.97	154.55	-90.00	-5,395.05	6,571.19	7,136.40	6,948.07	188.32	37.895		
8,300.00	7,807.00	7,703.00	7,703.00	40.56	154.55	-90.00	-5,395.05	6,571.19	7,110.07	6,921.29	188.78	37.663		
8,400.00	7,807.00	7,703.00	7,703.00	41.80	154.55	-90.00	-5,395.05	6,571.19	7,056.92	6,867.15	189.78	37.185		
8,500.00	7,807.00	7,703.00	7,703.00	43.08	154.55	-90.00	-5,395.05	6,571.19	7,004.80	6,813.96	190.85	36.703		
8,600.00	7,806.99	7,702.99	7,702.99	44.40	154.55	-90.00	-5,395.05	6,571.19	6,953.73	6,761.74	191.99	36.219		
8,700.00	7,806.99	7,702.99	7,702.99	45.74	154.55	-90.00	-5,395.05	6,571.19	6,903.73	6,710.53	193.20	35.734		
8,800.00	7,806.99	7,702.99	7,702.99	47.11	154.55	-90.00	-5,395.05	6,571.19	6,854.82	6,660.35	194.47	35.248		
8,900.00	7,806.99	7,702.99	7,702.99	48.51	154.55	-90.00	-5,395.05	6,571.19	6,807.04	6,611.23	195.81	34.764		
9,000.00	7,806.99	7,702.99	7,702.99	49.93	154.55	-90.00	-5,395.05	6,571.19	6,760.39	6,563.19	197.20	34.282		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,702.99	7,702.99	51.38	154.55	-90.00	-5,395.05	6,571.19	6,714.91	6,516.26	198.64	33.804		
9,200.00	7,806.99	7,702.99	7,702.99	52.84	154.55	-90.00	-5,395.05	6,571.19	6,670.61	6,470.47	200.14	33.330		
9,300.00	7,806.98	7,702.98	7,702.98	54.32	154.55	-90.00	-5,395.05	6,571.19	6,627.53	6,425.85	201.69	32.860		
9,400.00	7,806.98	7,702.98	7,702.98	55.82	154.55	-90.00	-5,395.05	6,571.19	6,585.69	6,382.41	203.28	32.397		
9,500.00	7,806.98	7,702.98	7,702.98	57.34	154.55	-90.00	-5,395.05	6,571.19	6,545.11	6,340.19	204.91	31.941		
9,600.00	7,806.98	7,702.98	7,702.98	58.87	154.55	-90.00	-5,395.05	6,571.19	6,505.81	6,299.22	206.59	31.492		
9,700.00	7,806.98	7,702.98	7,702.98	60.41	154.55	-90.00	-5,395.05	6,571.19	6,467.82	6,259.52	208.30	31.051		
9,800.00	7,806.98	7,702.98	7,702.98	61.96	154.55	-90.00	-5,395.05	6,571.19	6,431.15	6,221.11	210.04	30.619		
9,900.00	7,806.97	7,702.97	7,702.97	63.53	154.55	-90.00	-5,395.05	6,571.19	6,395.85	6,184.03	211.82	30.195		
10,000.00	7,806.97	7,702.97	7,702.97	65.10	154.55	-90.00	-5,395.05	6,571.19	6,361.92	6,148.29	213.62	29.781		
10,100.00	7,806.97	7,702.97	7,702.97	66.69	154.55	-90.00	-5,395.05	6,571.19	6,329.38	6,113.93	215.45	29.377		
10,200.00	7,806.97	7,702.97	7,702.97	68.29	154.55	-90.00	-5,395.05	6,571.19	6,298.27	6,080.96	217.31	28.983		
10,300.00	7,806.97	7,702.97	7,702.97	69.89	154.55	-90.00	-5,395.05	6,571.19	6,268.60	6,049.41	219.18	28.600		
10,400.00	7,806.97	7,702.97	7,702.97	71.50	154.55	-90.00	-5,395.05	6,571.19	6,240.39	6,019.31	221.08	28.227		
10,500.00	7,806.97	7,702.97	7,702.97	73.12	154.55	-90.00	-5,395.05	6,571.19	6,213.66	5,990.66	222.99	27.865		
10,600.00	7,806.96	7,702.96	7,702.96	74.75	154.55	-90.00	-5,395.05	6,571.19	6,188.43	5,963.51	224.92	27.514		
10,700.00	7,806.96	7,702.96	7,702.96	76.38	154.55	-90.00	-5,395.05	6,571.19	6,164.72	5,937.86	226.86	27.175		
10,800.00	7,806.96	7,702.96	7,702.96	78.02	154.55	-90.00	-5,395.05	6,571.19	6,142.55	5,913.74	228.80	26.846		
10,900.00	7,806.96	7,702.96	7,702.96	79.66	154.55	-90.00	-5,395.05	6,571.19	6,121.93	5,891.17	230.76	26.530		
11,000.00	7,806.96	7,702.96	7,702.96	81.31	154.55	-90.00	-5,395.05	6,571.19	6,102.88	5,870.16	232.71	26.225		
11,100.00	7,806.96	7,702.96	7,702.96	82.97	154.55	-90.00	-5,395.05	6,571.19	6,085.41	5,850.74	234.67	25.931		
11,200.00	7,806.95	7,702.95	7,702.95	84.63	154.55	-90.00	-5,395.05	6,571.19	6,069.54	5,832.91	236.63	25.650		
11,300.00	7,806.95	7,702.95	7,702.95	86.29	154.55	-90.00	-5,395.05	6,571.19	6,055.28	5,816.69	238.59	25.379		
11,400.00	7,806.95	7,702.95	7,702.95	87.96	154.55	-90.00	-5,395.05	6,571.19	6,042.64	5,802.10	240.54	25.121		
11,500.00	7,806.95	7,702.95	7,702.95	89.64	154.55	-90.00	-5,395.05	6,571.19	6,031.64	5,789.15	242.49	24.874		
11,600.00	7,806.95	7,702.95	7,702.95	91.31	154.55	-90.00	-5,395.05	6,571.19	6,022.27	5,777.85	244.42	24.639		
11,700.00	7,806.95	7,702.95	7,702.95	92.99	154.55	-90.00	-5,395.05	6,571.19	6,014.56	5,768.21	246.34	24.415		
11,800.00	7,806.95	7,702.95	7,702.95	94.68	154.55	-90.00	-5,395.05	6,571.19	6,008.49	5,760.24	248.25	24.203		
11,900.00	7,806.94	7,702.94	7,702.94	96.36	154.55	-90.00	-5,395.05	6,571.19	6,004.09	5,753.94	250.15	24.002		
12,000.00	7,806.94	7,702.94	7,702.94	98.05	154.55	-90.00	-5,395.05	6,571.19	6,001.35	5,749.33	252.02	23.813		
12,100.00	7,806.94	7,702.94	7,702.94	99.74	154.55	-90.00	-5,395.05	6,571.19	6,000.28	5,746.40	253.88	23.635		
12,114.44	7,806.94	7,702.94	7,702.94	99.99	154.55	-90.00	-5,395.05	6,571.19	6,000.26	5,746.12	254.14	23.610 CC		
12,200.00	7,806.94	7,702.94	7,702.94	101.44	154.55	-90.00	-5,395.05	6,571.19	6,000.87	5,745.16	255.71	23.467 ES		
12,300.00	7,806.94	7,702.94	7,702.94	103.14	154.55	-90.00	-5,395.05	6,571.19	6,003.13	5,745.61	257.52	23.311		
12,400.00	7,806.94	7,702.94	7,702.94	104.84	154.55	-90.00	-5,395.05	6,571.19	6,007.05	5,747.75	259.31	23.166		
12,500.00	7,806.93	7,702.93	7,702.93	106.54	154.55	-90.00	-5,395.05	6,571.19	6,012.63	5,751.57	261.06	23.031		
12,600.00	7,806.93	7,702.93	7,702.93	108.25	154.55	-90.00	-5,395.05	6,571.19	6,019.87	5,757.08	262.79	22.907		
12,700.00	7,806.93	7,702.93	7,702.93	109.95	154.55	-90.00	-5,395.05	6,571.19	6,028.76	5,764.27	264.49	22.794		
12,800.00	7,806.93	7,702.93	7,702.93	111.66	154.55	-90.00	-5,395.05	6,571.19	6,039.30	5,773.14	266.16	22.690		
12,900.00	7,806.93	7,702.93	7,702.93	113.37	154.55	-90.00	-5,395.05	6,571.19	6,051.46	5,783.67	267.80	22.597		
13,000.00	7,806.93	7,702.93	7,702.93	115.09	154.55	-90.00	-5,395.05	6,571.19	6,065.26	5,795.86	269.40	22.514		
13,100.00	7,806.93	7,702.93	7,702.93	116.80	154.55	-90.00	-5,395.05	6,571.19	6,080.66	5,809.69	270.97	22.441		
13,200.00	7,806.92	7,702.92	7,702.92	118.52	154.55	-90.00	-5,395.05	6,571.19	6,097.67	5,825.17	272.50	22.377		
13,300.00	7,806.92	7,702.92	7,702.92	120.24	154.55	-90.00	-5,395.05	6,571.19	6,116.26	5,842.27	274.00	22.322		
13,400.00	7,806.92	7,702.92	7,702.92	121.96	154.55	-90.00	-5,395.05	6,571.19	6,136.43	5,860.97	275.46	22.277		
13,500.00	7,806.92	7,702.92	7,702.92	123.68	154.55	-90.00	-5,395.05	6,571.19	6,158.16	5,881.28	276.88	22.241		
13,600.00	7,806.92	7,702.92	7,702.92	125.40	154.55	-90.00	-5,395.05	6,571.19	6,181.42	5,903.16	278.26	22.214		
13,700.00	7,806.92	7,702.92	7,702.92	127.12	154.55	-90.00	-5,395.05	6,571.19	6,206.22	5,926.61	279.61	22.196		
13,800.00	7,806.91	7,702.91	7,702.91	128.85	154.55	-90.00	-5,395.05	6,571.19	6,232.51	5,951.60	280.92	22.186		
13,900.00	7,806.91	7,702.91	7,702.91	130.58	154.55	-90.00	-5,395.05	6,571.19	6,260.30	5,978.11	282.19	22.185 SF		
14,000.00	7,806.91	7,702.91	7,702.91	132.30	154.55	-90.00	-5,395.05	6,571.19	6,289.55	6,006.13	283.42	22.192		
14,100.00	7,806.91	7,702.91	7,702.91	134.03	154.55	-90.00	-5,395.05	6,571.19	6,320.25	6,035.64	284.61	22.207		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - ABND VERT KATS B UNIT 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,200.00	7,806.91	7,702.91	7,702.91	135.76	154.55	-90.00	-5,395.05	6,571.19	6,352.38	6,066.61	285.76	22.230		
14,300.00	7,806.91	7,702.91	7,702.91	137.50	154.55	-90.00	-5,395.05	6,571.19	6,385.91	6,099.03	286.88	22.260		
14,400.00	7,806.91	7,702.91	7,702.91	139.23	154.55	-90.00	-5,395.05	6,571.19	6,420.82	6,132.86	287.95	22.298		
14,500.00	7,806.90	7,702.90	7,702.90	140.96	154.55	-90.00	-5,395.05	6,571.19	6,457.09	6,168.10	288.99	22.343		
14,600.00	7,806.90	7,702.90	7,702.90	142.70	154.55	-90.00	-5,395.05	6,571.19	6,494.70	6,204.70	290.00	22.396		
14,700.00	7,806.90	7,702.90	7,702.90	144.43	154.55	-90.00	-5,395.05	6,571.19	6,533.62	6,242.66	290.96	22.455		
14,800.00	7,806.90	7,702.90	7,702.90	146.17	154.55	-90.00	-5,395.05	6,571.19	6,573.84	6,281.95	291.89	22.522		
14,900.00	7,806.90	7,702.90	7,702.90	147.91	154.55	-90.00	-5,395.05	6,571.19	6,615.32	6,322.54	292.78	22.595		
15,000.00	7,806.90	7,702.90	7,702.90	149.64	154.55	-90.00	-5,395.05	6,571.19	6,658.05	6,364.41	293.64	22.674		
15,100.00	7,806.89	7,702.89	7,702.89	151.38	154.55	-90.00	-5,395.05	6,571.19	6,701.99	6,407.53	294.46	22.760		
15,200.00	7,806.89	7,702.89	7,702.89	153.12	154.55	-90.00	-5,395.05	6,571.19	6,747.13	6,451.88	295.25	22.852		
15,300.00	7,806.89	7,702.89	7,702.89	154.86	154.55	-90.00	-5,395.05	6,571.19	6,793.45	6,497.44	296.00	22.951		
15,400.00	7,806.89	7,702.89	7,702.89	156.60	154.55	-90.00	-5,395.05	6,571.19	6,840.91	6,544.18	296.73	23.055		
15,500.00	7,806.89	7,702.89	7,702.89	158.35	154.55	-90.00	-5,395.05	6,571.19	6,889.49	6,592.08	297.42	23.164		
15,600.00	7,806.89	7,702.89	7,702.89	160.09	154.55	-90.00	-5,395.05	6,571.19	6,939.18	6,641.10	298.08	23.280		
15,700.00	7,806.89	7,702.89	7,702.89	161.83	154.55	-90.00	-5,395.05	6,571.19	6,989.95	6,691.24	298.71	23.401		
15,800.00	7,806.88	7,702.88	7,702.88	163.57	154.55	-90.00	-5,395.05	6,571.19	7,041.77	6,742.46	299.31	23.527		
15,900.00	7,806.88	7,702.88	7,702.88	165.32	154.55	-90.00	-5,395.05	6,571.19	7,094.62	6,794.73	299.88	23.658		
16,000.00	7,806.88	7,702.88	7,702.88	167.06	154.55	-90.00	-5,395.05	6,571.19	7,148.47	6,848.05	300.43	23.794		
16,100.00	7,806.88	7,702.88	7,702.88	168.81	154.55	-90.00	-5,395.05	6,571.19	7,203.32	6,902.37	300.95	23.936		
16,200.00	7,806.88	7,702.88	7,702.88	170.56	154.55	-90.00	-5,395.05	6,571.19	7,259.13	6,957.69	301.44	24.082		
16,300.00	7,806.88	7,702.88	7,702.88	172.30	154.55	-90.00	-5,395.05	6,571.19	7,315.88	7,013.97	301.90	24.232		
16,400.00	7,806.87	7,702.87	7,702.87	174.05	154.55	-90.00	-5,395.05	6,571.19	7,373.54	7,071.20	302.35	24.388		
16,500.00	7,806.87	7,702.87	7,702.87	175.80	154.55	-90.00	-5,395.05	6,571.19	7,432.11	7,129.34	302.77	24.547		
16,600.00	7,806.87	7,702.87	7,702.87	177.55	154.55	-90.00	-5,395.05	6,571.19	7,491.55	7,188.39	303.16	24.711		
16,700.00	7,806.87	7,702.87	7,702.87	179.30	154.55	-90.00	-5,395.05	6,571.19	7,551.85	7,248.31	303.54	24.879		
16,800.00	7,806.87	7,702.87	7,702.87	181.04	154.55	-90.00	-5,395.05	6,571.19	7,612.99	7,309.10	303.89	25.052		
16,900.00	7,806.87	7,702.87	7,702.87	182.79	154.55	-90.00	-5,395.05	6,571.19	7,674.94	7,370.71	304.23	25.228		
17,000.00	7,806.87	7,702.87	7,702.87	184.54	154.55	-90.00	-5,395.05	6,571.19	7,737.69	7,433.15	304.54	25.408		
17,100.00	7,806.86	7,702.86	7,702.86	186.30	154.55	-90.00	-5,395.05	6,571.19	7,801.21	7,496.38	304.83	25.592		
17,200.00	7,806.86	7,702.86	7,702.86	188.05	154.55	-90.00	-5,395.05	6,571.19	7,865.50	7,560.39	305.11	25.779		
17,300.00	7,806.86	7,702.86	7,702.86	189.80	154.55	-90.00	-5,395.05	6,571.19	7,930.52	7,625.15	305.37	25.970		
17,400.00	7,806.86	7,702.86	7,702.86	191.55	154.55	-90.00	-5,395.05	6,571.19	7,996.27	7,690.65	305.61	26.165		
17,500.00	7,806.86	7,702.86	7,702.86	193.30	154.55	-90.00	-5,395.05	6,571.19	8,062.72	7,756.87	305.84	26.362		
17,600.00	7,806.86	7,702.86	7,702.86	195.06	154.55	-90.00	-5,395.05	6,571.19	8,129.85	7,823.80	306.05	26.564		
17,700.00	7,806.85	7,702.85	7,702.85	196.81	154.55	-90.00	-5,395.05	6,571.19	8,197.66	7,891.41	306.25	26.768		
17,800.00	7,806.85	7,702.85	7,702.85	198.56	154.55	-90.00	-5,395.05	6,571.19	8,266.12	7,959.69	306.43	26.976		
17,898.35	7,807.00	7,703.00	7,703.00	200.29	154.55	-90.00	-5,395.05	6,571.19	8,334.07	8,027.47	306.60	27.182		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	107.16	-1,737.97	5,629.08	5,891.63					
100.00	100.00	35.00	35.00	0.13	0.42	107.16	-1,737.97	5,629.08	5,891.28	5,890.72	0.55	N/A		
200.00	200.00	135.00	135.00	0.49	2.00	107.16	-1,737.97	5,629.08	5,891.28	5,888.78	2.49	2,363.602		
300.00	300.00	235.00	235.00	0.85	4.22	107.16	-1,737.97	5,629.08	5,891.28	5,886.21	5.07	1,162.754		
400.00	400.00	335.00	335.00	1.21	6.28	107.16	-1,737.97	5,629.08	5,891.28	5,883.78	7.49	786.468		
500.00	500.00	435.00	435.00	1.57	8.32	107.16	-1,737.97	5,629.08	5,891.28	5,881.39	9.89	595.869		
600.00	600.00	535.00	535.00	1.93	10.35	107.16	-1,737.97	5,629.08	5,891.28	5,879.00	12.27	480.051		
700.00	700.00	635.00	635.00	2.29	12.37	107.16	-1,737.97	5,629.08	5,891.28	5,876.62	14.65	402.074		
800.00	800.00	735.00	735.00	2.64	14.39	107.16	-1,737.97	5,629.08	5,891.28	5,874.25	17.03	345.951		
900.00	900.00	835.00	835.00	3.00	16.40	107.16	-1,737.97	5,629.08	5,891.28	5,871.87	19.40	303.606		
1,000.00	1,000.00	935.00	935.00	3.36	18.42	107.16	-1,737.97	5,629.08	5,891.28	5,869.50	21.78	270.512		
1,100.00	1,100.00	1,035.00	1,035.00	3.72	20.43	107.16	-1,737.97	5,629.08	5,891.28	5,867.12	24.15	243.933		
1,200.00	1,200.00	1,135.00	1,135.00	4.08	22.45	107.16	-1,737.97	5,629.08	5,891.28	5,864.75	26.52	222.115		
1,300.00	1,300.00	1,235.00	1,235.00	4.44	24.46	107.16	-1,737.97	5,629.08	5,891.28	5,862.38	28.90	203.883		
1,400.00	1,399.98	1,334.98	1,334.98	4.78	26.47	-44.17	-1,737.97	5,629.08	5,890.02	5,858.77	31.25	188.485		
1,500.00	1,499.84	1,434.84	1,434.84	5.11	28.48	-44.26	-1,737.97	5,629.08	5,886.27	5,852.68	33.59	175.253		
1,600.00	1,599.45	1,534.45	1,534.45	5.44	30.49	-44.40	-1,737.97	5,629.08	5,880.02	5,844.10	35.93	163.673		
1,700.00	1,698.70	1,633.70	1,633.70	5.79	32.48	-44.61	-1,737.97	5,629.08	5,871.30	5,833.04	38.26	153.449		
1,800.00	1,797.47	1,732.47	1,732.47	6.15	34.47	-44.87	-1,737.97	5,629.08	5,860.12	5,819.52	40.60	144.346		
1,900.00	1,895.62	1,830.62	1,830.62	6.53	36.45	-45.20	-1,737.97	5,629.08	5,846.51	5,803.58	42.93	136.182		
1,912.93	1,908.27	1,843.27	1,843.27	6.58	36.70	-45.24	-1,737.97	5,629.08	5,844.57	5,801.34	43.23	135.183		
2,000.00	1,993.35	1,928.35	1,928.35	6.93	38.41	-45.37	-1,737.97	5,629.08	5,831.42	5,786.15	45.27	128.821		
2,100.00	2,091.07	2,026.07	2,026.07	7.34	40.38	-45.52	-1,737.97	5,629.08	5,816.35	5,768.74	47.61	122.161		
2,200.00	2,188.79	2,123.79	2,123.79	7.77	42.34	-45.67	-1,737.97	5,629.08	5,801.32	5,751.36	49.96	116.108		
2,300.00	2,286.51	2,221.51	2,221.51	8.20	44.31	-45.82	-1,737.97	5,629.08	5,786.33	5,734.00	52.33	110.583		
2,400.00	2,384.23	2,319.23	2,319.23	8.65	46.28	-45.97	-1,737.97	5,629.08	5,771.38	5,716.68	54.69	105.524		
2,500.00	2,481.95	2,416.95	2,416.95	9.10	48.24	-46.12	-1,737.97	5,629.08	5,756.46	5,699.40	57.07	100.875		
2,600.00	2,579.67	2,514.67	2,514.67	9.56	50.21	-46.27	-1,737.97	5,629.08	5,741.59	5,682.14	59.44	96.589		
2,700.00	2,677.39	2,612.39	2,612.39	10.02	52.17	-46.42	-1,737.97	5,629.08	5,726.75	5,664.93	61.83	92.627		
2,800.00	2,775.11	2,710.11	2,710.11	10.49	54.14	-46.57	-1,737.97	5,629.08	5,711.96	5,647.75	64.21	88.953		
2,900.00	2,872.83	2,807.83	2,807.83	10.96	56.10	-46.72	-1,737.97	5,629.08	5,697.21	5,630.60	66.60	85.539		
3,000.00	2,970.55	2,905.55	2,905.55	11.44	58.07	-46.88	-1,737.97	5,629.08	5,682.50	5,613.50	69.00	82.358		
3,100.00	3,068.27	3,003.27	3,003.27	11.92	60.03	-47.03	-1,737.97	5,629.08	5,667.83	5,596.43	71.39	79.387		
3,200.00	3,165.99	3,100.99	3,100.99	12.40	62.00	-47.19	-1,737.97	5,629.08	5,653.20	5,579.40	73.79	76.607		
3,300.00	3,263.71	3,201.29	3,198.71	12.88	64.02	-47.34	-1,737.97	5,629.08	5,638.61	5,562.36	76.25	73.950		
3,400.00	3,361.43	3,303.57	3,296.43	13.37	66.07	-47.50	-1,737.97	5,629.08	5,624.07	5,545.32	78.75	71.421		
3,500.00	3,459.15	3,405.85	3,394.15	13.86	68.13	-47.66	-1,737.97	5,629.08	5,609.56	5,528.32	81.24	69.046		
3,600.00	3,556.87	3,508.13	3,491.87	14.35	70.19	-47.82	-1,737.97	5,629.08	5,595.11	5,511.36	83.75	66.811		
3,700.00	3,654.59	3,589.59	3,589.59	14.84	71.83	-47.98	-1,737.97	5,629.08	5,580.69	5,494.86	85.83	65.021		
3,800.00	3,752.31	3,687.31	3,687.31	15.34	73.79	-48.14	-1,737.97	5,629.08	5,566.32	5,478.08	88.24	63.080		
3,900.00	3,850.03	3,785.03	3,785.03	15.83	75.76	-48.30	-1,737.97	5,629.08	5,551.99	5,461.33	90.66	61.241		
4,000.00	3,947.75	3,882.75	3,882.75	16.33	77.72	-48.46	-1,737.97	5,629.08	5,537.71	5,444.63	93.07	59.498		
4,100.00	4,045.47	3,980.47	3,980.47	16.83	79.69	-48.62	-1,737.97	5,629.08	5,523.47	5,427.98	95.49	57.842		
4,200.00	4,143.19	4,078.19	4,078.19	17.32	81.65	-48.79	-1,737.97	5,629.08	5,509.27	5,411.36	97.91	56.267		
4,300.00	4,240.91	4,175.91	4,175.91	17.82	83.62	-48.95	-1,737.97	5,629.08	5,495.13	5,394.79	100.33	54.768		
4,400.00	4,338.63	4,273.63	4,273.63	18.32	85.58	-49.12	-1,737.97	5,629.08	5,481.02	5,378.27	102.76	53.340		
4,500.00	4,436.35	4,371.35	4,371.35	18.82	87.55	-49.28	-1,737.97	5,629.08	5,466.97	5,361.79	105.18	51.977		
4,600.00	4,534.07	4,469.07	4,469.07	19.33	89.51	-49.45	-1,737.97	5,629.08	5,452.96	5,345.35	107.61	50.675		
4,700.00	4,631.79	4,566.79	4,566.79	19.83	91.48	-49.62	-1,737.97	5,629.08	5,438.99	5,328.96	110.03	49.430		
4,800.00	4,729.51	4,664.51	4,664.51	20.33	93.44	-49.79	-1,737.97	5,629.08	5,425.08	5,312.62	112.46	48.239		
4,900.00	4,827.23	4,762.23	4,762.23	20.83	95.41	-49.96	-1,737.97	5,629.08	5,411.21	5,296.32	114.89	47.098		
5,000.00	4,924.95	4,859.95	4,859.95	21.34	97.37	-50.13	-1,737.97	5,629.08	5,397.39	5,280.07	117.32	46.005		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,957.67	4,957.67	21.84	99.34	-50.30	-1,737.97	5,629.08	5,383.62	5,263.86	119.75	44.955		
5,200.00	5,120.39	5,055.39	5,055.39	22.35	101.31	-50.47	-1,737.97	5,629.08	5,369.89	5,247.70	122.19	43.948		
5,300.00	5,218.11	5,145.00	5,145.00	22.85	103.10	-50.63	-1,737.97	5,629.08	5,356.22	5,231.77	124.46	43.036		
5,400.00	5,315.83	5,145.00	5,145.00	23.36	103.10	-50.63	-1,737.97	5,629.08	5,343.64	5,218.71	124.93	42.773		
5,500.00	5,413.55	5,145.00	5,145.00	23.86	103.10	-50.63	-1,737.97	5,629.08	5,332.90	5,207.54	125.37	42.539		
5,600.00	5,511.27	5,145.00	5,145.00	24.37	103.10	-50.63	-1,737.97	5,629.08	5,324.02	5,198.26	125.76	42.334		
5,700.00	5,608.99	5,145.00	5,145.00	24.88	103.10	-50.63	-1,737.97	5,629.08	5,317.01	5,190.89	126.12	42.160		
5,800.00	5,706.71	5,145.00	5,145.00	25.38	103.10	-50.63	-1,737.97	5,629.08	5,311.87	5,185.44	126.43	42.015		
5,900.00	5,804.43	5,145.00	5,145.00	25.89	103.10	-50.63	-1,737.97	5,629.08	5,308.60	5,181.91	126.70	41.899		
6,000.00	5,902.15	5,145.00	5,145.00	26.40	103.10	-50.63	-1,737.97	5,629.08	5,307.22	5,180.30	126.93	41.813		
6,023.21	5,924.83	5,145.00	5,145.00	26.52	103.10	-50.63	-1,737.97	5,629.08	5,307.17	5,180.20	126.97	41.797 CC, ES		
6,100.00	5,999.87	5,145.00	5,145.00	26.91	103.10	-50.63	-1,737.97	5,629.08	5,307.73	5,180.62	127.11	41.756		
6,200.00	6,097.59	5,145.00	5,145.00	27.42	103.10	-50.63	-1,737.97	5,629.08	5,310.12	5,182.86	127.26	41.728		
6,300.00	6,195.30	5,145.00	5,145.00	27.92	103.10	-50.63	-1,737.97	5,629.08	5,314.39	5,187.03	127.36	41.728		
6,400.00	6,293.02	5,145.00	5,145.00	28.43	103.10	-50.63	-1,737.97	5,629.08	5,320.53	5,193.12	127.42	41.757		
6,500.00	6,390.74	5,145.00	5,145.00	28.94	103.10	-50.63	-1,737.97	5,629.08	5,328.55	5,201.11	127.43	41.815		
6,600.00	6,488.46	5,145.00	5,145.00	29.45	103.10	-50.63	-1,737.97	5,629.08	5,338.42	5,211.02	127.41	41.900		
6,638.14	6,525.73	5,145.00	5,145.00	29.64	103.10	-50.63	-1,737.97	5,629.08	5,342.68	5,215.29	127.39	41.941		
6,700.00	6,586.32	5,145.00	5,145.00	29.95	103.10	-50.75	-1,737.97	5,629.08	5,350.57	5,223.24	127.34	42.019		
6,800.00	6,684.79	5,145.00	5,145.00	30.42	103.10	-51.00	-1,737.97	5,629.08	5,366.58	5,239.38	127.20	42.191		
6,900.00	6,783.81	5,145.00	5,145.00	30.85	103.10	-51.32	-1,737.97	5,629.08	5,386.55	5,259.56	126.99	42.418		
7,000.00	6,883.25	5,145.00	5,145.00	31.24	103.10	-51.70	-1,737.97	5,629.08	5,410.41	5,283.69	126.72	42.697		
7,100.00	6,983.00	5,145.00	5,145.00	31.60	103.10	-52.16	-1,737.97	5,629.08	5,438.09	5,311.71	126.38	43.030		
7,200.00	7,082.93	5,145.00	5,145.00	31.92	103.10	-52.68	-1,737.97	5,629.08	5,469.49	5,343.50	125.99	43.413		
7,251.07	7,134.00	5,145.00	5,145.00	32.06	103.10	98.32	-1,737.97	5,629.08	5,486.93	5,361.17	125.76	43.631		
7,300.00	7,182.93	5,145.00	5,145.00	32.19	103.10	98.32	-1,737.97	5,629.08	5,504.28	5,378.75	125.52	43.850		
7,351.07	7,234.00	5,145.00	5,145.00	32.32	103.10	98.32	-1,737.97	5,629.08	5,522.79	5,397.51	125.27	44.086		
7,400.00	7,282.87	5,145.00	5,145.00	32.47	103.10	-79.46	-1,737.97	5,629.08	5,540.59	5,415.54	125.05	44.307		
7,450.00	7,332.44	5,145.00	5,145.00	32.67	103.10	-77.58	-1,737.97	5,629.08	5,558.44	5,433.58	124.86	44.518		
7,500.00	7,381.26	5,145.00	5,145.00	32.90	103.10	-75.78	-1,737.97	5,629.08	5,575.80	5,451.10	124.70	44.713		
7,550.00	7,428.96	5,145.00	5,145.00	33.18	103.10	-74.07	-1,737.97	5,629.08	5,592.55	5,467.97	124.58	44.891		
7,600.00	7,475.17	5,145.00	5,145.00	33.48	103.10	-72.45	-1,737.97	5,629.08	5,608.57	5,484.07	124.50	45.050		
7,650.00	7,519.55	5,145.00	5,145.00	33.82	103.10	-70.93	-1,737.97	5,629.08	5,623.74	5,499.29	124.46	45.186		
7,700.00	7,561.76	5,145.00	5,145.00	34.20	103.10	-69.54	-1,737.97	5,629.08	5,637.96	5,513.50	124.46	45.300		
7,750.00	7,601.47	5,145.00	5,145.00	34.60	103.10	-68.27	-1,737.97	5,629.08	5,651.12	5,526.61	124.51	45.388		
7,800.00	7,638.39	5,145.00	5,145.00	35.04	103.10	-67.12	-1,737.97	5,629.08	5,663.14	5,538.53	124.61	45.448		
7,850.00	7,672.23	5,145.00	5,145.00	35.50	103.10	-66.11	-1,737.97	5,629.08	5,673.92	5,549.16	124.75	45.481		
7,900.00	7,702.74	5,145.00	5,145.00	35.99	103.10	-65.23	-1,737.97	5,629.08	5,683.39	5,558.44	124.95	45.484		
7,950.00	7,729.67	5,145.00	5,145.00	36.50	103.10	-64.49	-1,737.97	5,629.08	5,691.49	5,566.28	125.21	45.457		
8,000.00	7,752.84	5,145.00	5,145.00	37.04	103.10	-63.88	-1,737.97	5,629.08	5,698.16	5,572.65	125.51	45.399		
8,050.00	7,772.06	5,145.00	5,145.00	37.60	103.10	-63.41	-1,737.97	5,629.08	5,703.36	5,577.49	125.87	45.311		
8,100.00	7,787.18	5,145.00	5,145.00	38.17	103.10	-63.08	-1,737.97	5,629.08	5,707.05	5,580.77	126.29	45.192		
8,150.00	7,798.10	5,145.00	5,145.00	38.76	103.10	-62.89	-1,737.97	5,629.08	5,709.21	5,582.46	126.75	45.044		
8,200.00	7,804.72	5,145.00	5,145.00	39.36	103.10	-62.83	-1,737.97	5,629.08	5,709.81	5,582.55	127.26	44.867		
8,251.15	7,807.00	5,145.00	5,145.00	39.97	103.10	-62.92	-1,737.97	5,629.08	5,708.83	5,581.00	127.83	44.659		
8,300.00	7,807.00	5,145.00	5,145.00	40.56	103.10	-62.92	-1,737.97	5,629.08	5,707.32	5,578.91	128.40	44.448		
8,400.00	7,807.00	5,145.00	5,145.00	41.80	103.10	-62.92	-1,737.97	5,629.08	5,705.53	5,575.92	129.61	44.019		
8,451.85	7,807.00	5,145.00	5,145.00	42.47	103.10	-62.92	-1,737.97	5,629.08	5,705.30	5,575.03	130.26	43.798		
8,500.00	7,807.00	5,145.00	5,145.00	43.08	103.10	-62.92	-1,737.97	5,629.08	5,705.50	5,574.63	130.87	43.597		
8,600.00	7,806.99	5,145.00	5,145.00	44.40	103.10	-62.92	-1,737.97	5,629.08	5,707.22	5,575.06	132.16	43.183		
8,700.00	7,806.99	5,145.00	5,145.00	45.74	103.10	-62.92	-1,737.97	5,629.08	5,710.69	5,577.20	133.49	42.781		
8,800.00	7,806.99	5,145.00	5,145.00	47.11	103.10	-62.92	-1,737.97	5,629.08	5,715.91	5,581.07	134.84	42.390		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	5,145.00	5,145.00	48.51	103.10	-62.92	-1,737.97	5,629.08	5,722.87	5,586.65	136.22	42.013		
9,000.00	7,806.99	5,145.00	5,145.00	49.93	103.10	-62.92	-1,737.97	5,629.08	5,731.57	5,593.96	137.61	41.650		
9,100.00	7,806.99	5,145.00	5,145.00	51.38	103.10	-62.92	-1,737.97	5,629.08	5,742.00	5,602.97	139.03	41.302		
9,200.00	7,806.99	5,145.00	5,145.00	52.84	103.10	-62.92	-1,737.97	5,629.08	5,754.14	5,613.69	140.45	40.970		
9,300.00	7,806.98	5,145.00	5,145.00	54.32	103.10	-62.92	-1,737.97	5,629.08	5,768.00	5,626.12	141.88	40.655		
9,400.00	7,806.98	5,145.00	5,145.00	55.82	103.10	-62.92	-1,737.97	5,629.08	5,783.55	5,640.23	143.31	40.356		
9,500.00	7,806.98	5,145.00	5,145.00	57.34	103.10	-62.92	-1,737.97	5,629.08	5,800.78	5,656.03	144.75	40.074		
9,600.00	7,806.98	5,145.00	5,145.00	58.87	103.10	-62.92	-1,737.97	5,629.08	5,819.68	5,673.49	146.19	39.810		
9,700.00	7,806.98	5,145.00	5,145.00	60.41	103.10	-62.92	-1,737.97	5,629.08	5,840.23	5,692.61	147.62	39.563		
9,800.00	7,806.98	5,145.00	5,145.00	61.96	103.10	-62.92	-1,737.97	5,629.08	5,862.42	5,713.37	149.05	39.333		
9,900.00	7,806.97	5,145.00	5,145.00	63.53	103.10	-62.92	-1,737.97	5,629.08	5,886.22	5,735.75	150.47	39.120		
10,000.00	7,806.97	5,145.00	5,145.00	65.10	103.10	-62.92	-1,737.97	5,629.08	5,911.62	5,759.74	151.87	38.924		
10,100.00	7,806.97	5,145.00	5,145.00	66.69	103.10	-62.92	-1,737.97	5,629.08	5,938.59	5,785.32	153.27	38.746		
10,200.00	7,806.97	5,145.00	5,145.00	68.29	103.10	-62.92	-1,737.97	5,629.08	5,967.11	5,812.46	154.65	38.583		
10,300.00	7,806.97	5,145.00	5,145.00	69.89	103.10	-62.92	-1,737.97	5,629.08	5,997.17	5,841.15	156.02	38.438		
10,400.00	7,806.97	5,145.00	5,145.00	71.50	103.10	-62.92	-1,737.97	5,629.08	6,028.74	5,871.37	157.38	38.308		
10,500.00	7,806.97	5,145.00	5,145.00	73.12	103.10	-62.92	-1,737.97	5,629.08	6,061.79	5,903.08	158.71	38.194		
10,600.00	7,806.96	5,145.00	5,145.00	74.75	103.10	-62.92	-1,737.97	5,629.08	6,096.31	5,936.28	160.02	38.096		
10,700.00	7,806.96	5,145.00	5,145.00	76.38	103.10	-62.92	-1,737.97	5,629.08	6,132.26	5,970.94	161.32	38.013		
10,800.00	7,806.96	5,145.00	5,145.00	78.02	103.10	-62.92	-1,737.97	5,629.08	6,169.62	6,007.03	162.60	37.945		
10,900.00	7,806.96	5,145.00	5,145.00	79.66	103.10	-62.92	-1,737.97	5,629.08	6,208.37	6,044.52	163.85	37.891		
11,000.00	7,806.96	5,145.00	5,145.00	81.31	103.10	-62.92	-1,737.97	5,629.08	6,248.48	6,083.40	165.08	37.851		
11,100.00	7,806.96	5,145.00	5,145.00	82.97	103.10	-62.92	-1,737.97	5,629.08	6,289.92	6,123.63	166.29	37.825		
11,200.00	7,806.95	5,145.00	5,145.00	84.63	103.10	-62.92	-1,737.97	5,629.08	6,332.67	6,165.20	167.48	37.813 SF		
11,300.00	7,806.95	5,145.00	5,145.00	86.29	103.10	-62.92	-1,737.97	5,629.08	6,376.71	6,208.07	168.64	37.813		
11,400.00	7,806.95	5,145.00	5,145.00	87.96	103.10	-62.92	-1,737.97	5,629.08	6,421.99	6,252.22	169.78	37.826		
11,500.00	7,806.95	5,145.00	5,145.00	89.64	103.10	-62.92	-1,737.97	5,629.08	6,468.51	6,297.62	170.89	37.852		
11,600.00	7,806.95	5,145.00	5,145.00	91.31	103.10	-62.92	-1,737.97	5,629.08	6,516.23	6,344.25	171.98	37.889		
11,700.00	7,806.95	5,145.00	5,145.00	92.99	103.10	-62.92	-1,737.97	5,629.08	6,565.13	6,392.08	173.05	37.938		
11,800.00	7,806.95	5,145.00	5,145.00	94.68	103.10	-62.92	-1,737.97	5,629.08	6,615.17	6,441.09	174.09	37.999		
11,900.00	7,806.94	5,145.00	5,145.00	96.36	103.10	-62.92	-1,737.97	5,629.08	6,666.35	6,491.24	175.11	38.070		
12,000.00	7,806.94	5,145.00	5,145.00	98.05	103.10	-62.92	-1,737.97	5,629.08	6,718.62	6,542.51	176.10	38.152		
12,100.00	7,806.94	5,145.00	5,145.00	99.74	103.10	-62.92	-1,737.97	5,629.08	6,771.96	6,594.89	177.07	38.244		
12,200.00	7,806.94	5,145.00	5,145.00	101.44	103.10	-62.92	-1,737.97	5,629.08	6,826.35	6,648.33	178.02	38.347		
12,300.00	7,806.94	5,145.00	5,145.00	103.14	103.10	-62.92	-1,737.97	5,629.08	6,881.76	6,702.83	178.94	38.459		
12,400.00	7,806.94	5,145.00	5,145.00	104.84	103.10	-62.92	-1,737.97	5,629.08	6,938.18	6,758.34	179.84	38.580		
12,500.00	7,806.93	5,145.00	5,145.00	106.54	103.10	-62.92	-1,737.97	5,629.08	6,995.57	6,814.85	180.72	38.710		
12,600.00	7,806.93	5,145.00	5,145.00	108.25	103.10	-62.92	-1,737.97	5,629.08	7,053.90	6,872.34	181.57	38.850		
12,700.00	7,806.93	5,145.00	5,145.00	109.95	103.10	-62.92	-1,737.97	5,629.08	7,113.17	6,930.77	182.40	38.997		
12,800.00	7,806.93	5,145.00	5,145.00	111.66	103.10	-62.92	-1,737.97	5,629.08	7,173.34	6,990.13	183.21	39.153		
12,900.00	7,806.93	5,145.00	5,145.00	113.37	103.10	-62.92	-1,737.97	5,629.08	7,234.39	7,050.39	184.00	39.317		
13,000.00	7,806.93	5,145.00	5,145.00	115.09	103.10	-62.92	-1,737.97	5,629.08	7,296.31	7,111.54	184.77	39.489		
13,100.00	7,806.93	5,145.00	5,145.00	116.80	103.10	-62.92	-1,737.97	5,629.08	7,359.06	7,173.54	185.51	39.669		
13,200.00	7,806.92	5,145.00	5,145.00	118.52	103.10	-62.92	-1,737.97	5,629.08	7,422.62	7,236.38	186.24	39.855		
13,300.00	7,806.92	5,145.00	5,145.00	120.24	103.10	-62.92	-1,737.97	5,629.08	7,486.99	7,300.04	186.95	40.049		
13,400.00	7,806.92	5,145.00	5,145.00	121.96	103.10	-62.92	-1,737.97	5,629.08	7,552.13	7,364.49	187.63	40.249		
13,500.00	7,806.92	5,145.00	5,145.00	123.68	103.10	-62.92	-1,737.97	5,629.08	7,618.02	7,429.72	188.30	40.457		
13,600.00	7,806.92	5,145.00	5,145.00	125.40	103.10	-62.92	-1,737.97	5,629.08	7,684.65	7,495.70	188.95	40.670		
13,700.00	7,806.92	5,145.00	5,145.00	127.12	103.10	-62.92	-1,737.97	5,629.08	7,752.00	7,562.42	189.58	40.890		
13,800.00	7,806.91	5,145.00	5,145.00	128.85	103.10	-62.92	-1,737.97	5,629.08	7,820.05	7,629.85	190.20	41.116		
13,900.00	7,806.91	5,145.00	5,145.00	130.58	103.10	-62.92	-1,737.97	5,629.08	7,888.77	7,697.98	190.79	41.347		
14,000.00	7,806.91	5,145.00	5,145.00	132.30	103.10	-62.92	-1,737.97	5,629.08	7,958.17	7,766.79	191.37	41.584		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
14,100.00	7,806.91	5,145.00	5,145.00	134.03	103.10	-62.92	-1,737.97	5,629.08	8,028.20	7,836.26	191.94	41.827	
14,200.00	7,806.91	5,145.00	5,145.00	135.76	103.10	-62.92	-1,737.97	5,629.08	8,098.87	7,906.38	192.49	42.075	
14,300.00	7,806.91	5,145.00	5,145.00	137.50	103.10	-62.92	-1,737.97	5,629.08	8,170.15	7,977.13	193.02	42.328	
14,400.00	7,806.91	5,145.00	5,145.00	139.23	103.10	-62.92	-1,737.97	5,629.08	8,242.02	8,048.49	193.54	42.587	
14,500.00	7,806.90	5,145.00	5,145.00	140.96	103.10	-62.92	-1,737.97	5,629.08	8,314.48	8,120.44	194.04	42.850	
14,600.00	7,806.90	5,145.00	5,145.00	142.70	103.10	-62.92	-1,737.97	5,629.08	8,387.50	8,192.97	194.53	43.117	
14,700.00	7,806.90	5,145.00	5,145.00	144.43	103.10	-62.92	-1,737.97	5,629.08	8,461.08	8,266.07	195.00	43.389	
14,800.00	7,806.90	5,145.00	5,145.00	146.17	103.10	-62.92	-1,737.97	5,629.08	8,535.19	8,339.72	195.47	43.666	
14,900.00	7,806.90	5,145.00	5,145.00	147.91	103.10	-62.92	-1,737.97	5,629.08	8,609.82	8,413.91	195.91	43.947	
15,000.00	7,806.90	5,145.00	5,145.00	149.64	103.10	-62.92	-1,737.97	5,629.08	8,684.97	8,488.62	196.35	44.232	
15,100.00	7,806.89	5,145.00	5,145.00	151.38	103.10	-62.92	-1,737.97	5,629.08	8,760.61	8,563.84	196.78	44.521	
15,200.00	7,806.89	5,145.00	5,145.00	153.12	103.10	-62.92	-1,737.97	5,629.08	8,836.74	8,639.55	197.19	44.814	
15,300.00	7,806.89	5,145.00	5,145.00	154.86	103.10	-62.92	-1,737.97	5,629.08	8,913.34	8,715.75	197.59	45.110	
15,400.00	7,806.89	5,145.00	5,145.00	156.60	103.10	-62.92	-1,737.97	5,629.08	8,990.40	8,792.42	197.98	45.411	
15,500.00	7,806.89	5,145.00	5,145.00	158.35	103.10	-62.92	-1,737.97	5,629.08	9,067.90	8,869.54	198.36	45.715	
15,600.00	7,806.89	5,145.00	5,145.00	160.09	103.10	-62.92	-1,737.97	5,629.08	9,145.84	8,947.12	198.73	46.022	
15,700.00	7,806.89	5,145.00	5,145.00	161.83	103.10	-62.92	-1,737.97	5,629.08	9,224.21	9,025.13	199.09	46.333	
15,800.00	7,806.88	5,145.00	5,145.00	163.57	103.10	-62.92	-1,737.97	5,629.08	9,303.00	9,103.56	199.44	46.647	
15,900.00	7,806.88	5,145.00	5,145.00	165.32	103.10	-62.92	-1,737.97	5,629.08	9,382.18	9,182.41	199.78	46.964	
16,000.00	7,806.88	5,145.00	5,145.00	167.06	103.10	-62.92	-1,737.97	5,629.08	9,461.76	9,261.66	200.11	47.284	
16,100.00	7,806.88	5,145.00	5,145.00	168.81	103.10	-62.92	-1,737.97	5,629.08	9,541.73	9,341.30	200.43	47.607	
16,200.00	7,806.88	5,145.00	5,145.00	170.56	103.10	-62.92	-1,737.97	5,629.08	9,622.07	9,421.33	200.74	47.933	
16,300.00	7,806.88	5,145.00	5,145.00	172.30	103.10	-62.92	-1,737.97	5,629.08	9,702.78	9,501.73	201.05	48.262	
16,400.00	7,806.87	5,145.00	5,145.00	174.05	103.10	-62.92	-1,737.97	5,629.08	9,783.84	9,582.50	201.34	48.593	
16,500.00	7,806.87	5,145.00	5,145.00	175.80	103.10	-62.92	-1,737.97	5,629.08	9,865.25	9,663.62	201.63	48.927	
16,600.00	7,806.87	5,145.00	5,145.00	177.55	103.10	-62.92	-1,737.97	5,629.08	9,947.00	9,745.09	201.91	49.264	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	130.18	-3,970.44	4,700.98	6,153.90					
100.00	100.00	13.28	13.28	0.13	0.02	130.18	-3,970.43	4,700.98	6,153.34	6,153.19	0.15	N/A		
200.00	200.00	92.60	92.60	0.49	0.15	130.18	-3,970.28	4,701.36	6,153.58	6,152.94	0.64	9,636.965		
300.00	300.00	198.83	198.82	0.85	0.53	130.17	-3,969.86	4,702.21	6,153.94	6,152.56	1.38	4,466.985		
400.00	400.00	292.00	291.99	1.21	0.86	130.16	-3,969.27	4,703.04	6,154.22	6,152.15	2.07	2,973.097		
500.00	500.00	500.00	415.85	1.57	1.61	130.15	-3,968.39	4,704.15	6,154.45	6,151.27	3.17	1,939.644		
600.00	600.00	490.31	490.29	1.93	1.57	130.14	-3,967.80	4,704.96	6,154.74	6,151.24	3.50	1,759.816		
700.00	700.00	760.12	760.05	2.29	2.50	130.15	-3,967.28	4,703.30	6,154.73	6,149.95	4.78	1,286.618		
800.00	800.00	908.00	907.54	2.64	3.01	130.24	-3,971.66	4,693.89	6,151.66	6,146.02	5.64	1,090.159		
900.00	900.00	988.61	987.63	3.00	3.29	130.32	-3,976.94	4,686.41	6,148.79	6,142.50	6.29	978.191		
1,000.00	1,000.00	1,114.17	1,112.24	3.36	3.75	130.46	-3,985.76	4,673.83	6,145.65	6,138.55	7.10	865.205		
1,100.00	1,100.00	1,263.68	1,260.45	3.72	4.32	130.63	-3,996.71	4,657.51	6,142.10	6,134.07	8.03	764.919		
1,200.00	1,200.00	1,330.69	1,326.79	4.08	4.59	130.72	-4,002.07	4,649.68	6,138.41	6,129.76	8.65	709.478		
1,300.00	1,300.00	1,467.90	1,462.55	4.44	5.14	130.90	-4,013.22	4,633.24	6,134.59	6,125.03	9.56	641.764		
1,400.00	1,399.98	1,540.19	1,534.03	4.78	5.44	-20.34	-4,019.34	4,624.38	6,129.19	6,119.00	10.20	601.120		
1,500.00	1,499.84	1,628.41	1,621.31	5.11	5.80	-20.30	-4,026.81	4,613.89	6,120.85	6,109.96	10.89	562.167		
1,600.00	1,599.45	1,735.48	1,727.21	5.44	6.25	-20.26	-4,036.01	4,601.08	6,109.29	6,097.63	11.66	523.755		
1,700.00	1,698.70	1,822.12	1,812.94	5.79	6.61	-20.29	-4,043.28	4,590.91	6,094.55	6,082.19	12.36	493.009		
1,800.00	1,797.47	1,929.52	1,919.28	6.15	7.06	-20.33	-4,051.96	4,578.61	6,076.60	6,063.45	13.15	462.176		
1,900.00	1,895.62	2,008.14	1,997.17	6.53	7.38	-20.43	-4,058.12	4,569.88	6,055.55	6,041.73	13.82	438.217		
1,912.93	1,908.27	2,019.62	2,008.55	6.58	7.43	-20.44	-4,059.00	4,568.65	6,052.61	6,038.70	13.91	435.021		
2,000.00	1,993.35	2,098.25	2,086.52	6.93	7.76	-20.40	-4,064.90	4,560.34	6,032.70	6,018.16	14.54	414.989		
2,100.00	2,091.07	2,187.79	2,175.30	7.34	8.13	-20.36	-4,071.73	4,550.93	6,009.95	5,994.69	15.26	393.926		
2,200.00	2,188.79	2,322.22	2,308.46	7.77	8.70	-20.28	-4,082.48	4,535.99	5,987.02	5,970.85	16.17	370.249		
2,300.00	2,286.51	2,445.58	2,430.56	8.20	9.22	-20.20	-4,092.25	4,521.31	5,963.44	5,946.39	17.05	349.836		
2,400.00	2,384.23	2,523.08	2,507.27	8.65	9.55	-20.15	-4,098.25	4,512.11	5,939.81	5,922.07	17.74	334.858		
2,500.00	2,481.95	2,581.00	2,564.59	9.10	9.80	-20.11	-4,103.13	4,505.32	5,916.73	5,898.37	18.35	322.370		
2,600.00	2,579.67	2,650.05	2,632.96	9.56	10.09	-20.07	-4,109.00	4,497.71	5,894.20	5,875.18	19.02	309.957		
2,700.00	2,677.39	2,790.43	2,772.20	10.02	10.68	-19.99	-4,119.77	4,483.42	5,871.82	5,851.86	19.96	294.106		
2,800.00	2,775.11	2,849.78	2,831.04	10.49	10.93	-19.96	-4,124.50	4,477.19	5,849.28	5,828.69	20.59	284.053		
2,900.00	2,872.83	2,943.83	2,924.19	10.96	11.33	-19.90	-4,132.55	4,467.10	5,827.02	5,805.65	21.37	272.733		
3,000.00	2,970.55	3,060.16	3,039.40	11.44	11.82	-19.82	-4,142.48	4,454.40	5,804.62	5,782.39	22.23	261.095		
3,100.00	3,068.27	3,201.29	3,179.11	11.92	12.43	-19.73	-4,153.95	4,438.10	5,781.41	5,758.21	23.20	249.186		
3,200.00	3,165.99	3,281.95	3,258.97	12.40	12.77	-19.67	-4,160.42	4,428.75	5,758.20	5,734.28	23.93	240.656		
3,300.00	3,263.71	3,431.11	3,406.71	12.88	13.41	-19.58	-4,172.06	4,411.93	5,735.27	5,710.34	24.93	230.094		
3,400.00	3,361.43	3,496.86	3,471.79	13.37	13.69	-19.53	-4,177.16	4,403.99	5,711.58	5,685.98	25.60	223.137		
3,500.00	3,459.15	3,580.07	3,554.11	13.86	14.05	-19.47	-4,184.18	4,394.13	5,688.44	5,662.10	26.34	215.962		
3,600.00	3,556.87	3,675.39	3,648.46	14.35	14.46	-19.40	-4,191.94	4,382.96	5,665.25	5,638.12	27.13	208.814		
3,700.00	3,654.59	3,744.64	3,717.10	14.84	14.76	-19.36	-4,197.16	4,375.49	5,642.34	5,614.53	27.82	202.850		
3,800.00	3,752.31	3,797.88	3,769.89	15.34	14.98	-19.33	-4,201.39	4,370.05	5,620.12	5,591.68	28.44	197.640		
3,900.00	3,850.03	3,939.87	3,910.57	15.83	15.59	-19.23	-4,213.38	4,355.00	5,597.97	5,568.56	29.41	190.345		
4,000.00	3,947.75	4,014.77	3,984.80	16.33	15.91	-19.18	-4,219.48	4,347.04	5,575.57	5,545.45	30.12	185.111		
4,100.00	4,045.47	4,130.98	4,100.11	16.83	16.39	-19.12	-4,228.18	4,335.51	5,553.28	5,522.30	30.98	179.230		
4,200.00	4,143.19	4,273.34	4,241.22	17.32	16.99	-19.03	-4,238.77	4,320.01	5,530.21	5,498.26	31.95	173.080		
4,300.00	4,240.91	4,363.55	4,330.59	17.82	17.38	-18.97	-4,245.59	4,309.72	5,506.91	5,474.19	32.72	168.290		
4,400.00	4,338.63	4,443.34	4,409.73	18.32	17.71	-18.92	-4,251.18	4,301.30	5,483.86	5,450.41	33.45	163.939		
4,500.00	4,436.35	4,509.31	4,475.20	18.82	17.99	-18.88	-4,255.84	4,294.64	5,461.20	5,427.07	34.13	160.029		
4,600.00	4,534.07	4,560.99	4,526.46	19.33	18.21	-18.85	-4,260.00	4,289.51	5,439.28	5,404.53	34.75	156.528		
4,700.00	4,631.79	4,621.67	4,586.59	19.83	18.46	-18.81	-4,265.48	4,283.61	5,418.15	5,382.74	35.41	153.020		
4,800.00	4,729.51	4,712.18	4,676.35	20.33	18.84	-18.75	-4,273.79	4,275.34	5,397.56	5,361.38	36.18	149.180		
4,900.00	4,827.23	4,868.83	4,831.76	20.83	19.50	-18.65	-4,286.81	4,260.72	5,376.22	5,339.02	37.20	144.520		
5,000.00	4,924.95	4,993.81	4,955.70	21.34	20.02	-18.57	-4,296.80	4,248.08	5,354.16	5,316.05	38.10	140.523		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 89-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,098.34	5,059.31	21.84	20.47	-18.50	-4,305.18	4,237.10	5,331.84	5,292.92	38.93	136.964		
5,200.00	5,120.39	5,190.50	5,150.72	22.35	20.85	-18.44	-4,312.18	4,227.71	5,309.49	5,269.78	39.71	133.719		
5,300.00	5,218.11	5,395.94	5,354.61	22.85	21.71	-18.32	-4,325.41	4,206.27	5,286.15	5,245.27	40.88	129.311		
5,400.00	5,315.83	5,491.10	5,448.96	23.36	22.11	-18.26	-4,331.23	4,195.30	5,261.87	5,220.21	41.67	126.285		
5,500.00	5,413.55	5,592.41	5,549.41	23.86	22.54	-18.19	-4,337.39	4,183.69	5,237.63	5,195.15	42.47	123.314		
5,600.00	5,511.27	5,677.01	5,633.39	24.37	22.89	-18.15	-4,341.94	4,174.54	5,213.37	5,170.15	43.22	120.629		
5,700.00	5,608.99	5,733.59	5,689.57	24.88	23.12	-18.12	-4,345.18	4,168.68	5,189.68	5,145.81	43.87	118.304		
5,800.00	5,706.71	5,798.66	5,754.19	25.38	23.39	-18.08	-4,349.32	4,162.23	5,166.71	5,122.16	44.55	115.984		
5,900.00	5,804.43	5,882.67	5,837.56	25.89	23.74	-18.03	-4,355.35	4,153.84	5,144.23	5,098.93	45.29	113.574		
6,000.00	5,902.15	5,988.67	5,942.67	26.40	24.18	-17.96	-4,363.32	4,142.70	5,121.62	5,075.50	46.12	111.046		
6,100.00	5,999.87	6,076.42	6,029.79	26.91	24.55	-17.90	-4,369.33	4,134.12	5,099.11	5,052.23	46.88	108.770		
6,200.00	6,097.59	6,161.59	6,114.50	27.42	24.89	-17.87	-4,374.30	4,126.87	5,076.80	5,029.18	47.62	106.611		
6,300.00	6,195.30	6,243.91	6,196.50	27.92	25.21	-17.85	-4,378.48	4,120.78	5,054.77	5,006.43	48.34	104.563		
6,400.00	6,293.02	6,326.67	6,279.00	28.43	25.52	-17.83	-4,382.27	4,115.40	5,033.03	4,983.97	49.06	102.592		
6,500.00	6,390.74	6,392.06	6,344.20	28.94	25.77	-17.83	-4,385.31	4,111.52	5,011.74	4,962.03	49.72	100.801		
6,600.00	6,488.46	6,460.38	6,412.32	29.45	26.03	-17.82	-4,388.79	4,107.79	4,991.08	4,940.69	50.39	99.058		
6,638.14	6,525.73	6,487.38	6,439.27	29.64	26.13	-17.82	-4,390.09	4,106.53	4,983.34	4,932.70	50.64	98.404		
6,700.00	6,586.32	6,532.87	6,484.68	29.95	26.29	-17.75	-4,392.12	4,104.73	4,971.57	4,920.52	51.06	97.374		
6,800.00	6,684.79	6,612.02	6,563.78	30.42	26.56	-17.67	-4,394.23	4,103.33	4,955.54	4,903.81	51.72	95.812		
6,900.00	6,783.81	6,711.94	6,663.68	30.85	26.87	-17.62	-4,395.67	4,103.00	4,942.99	4,890.57	52.42	94.302		
7,000.00	6,883.25	6,830.88	6,782.63	31.24	27.24	-17.60	-4,396.59	4,103.04	4,933.54	4,880.40	53.14	92.847		
7,100.00	6,983.00	6,938.93	6,890.67	31.60	27.55	-17.59	-4,396.65	4,103.34	4,927.09	4,873.29	53.80	91.576		
7,200.00	7,082.93	7,042.91	6,994.65	31.92	27.87	-17.59	-4,396.79	4,103.42	4,923.88	4,869.42	54.46	90.414		
7,245.75	7,128.67	7,085.21	7,036.95	32.04	28.00	-17.58	-4,396.88	4,103.41	4,923.51	4,868.76	54.74	89.943		
7,251.07	7,134.00	7,089.87	7,041.61	32.06	28.01	133.71	-4,396.89	4,103.41	4,923.51	4,868.74	54.77	89.890		
7,300.00	7,182.93	7,132.70	7,084.44	32.19	28.15	133.71	-4,397.05	4,103.41	4,923.63	4,868.57	55.06	89.422		
7,351.07	7,234.00	7,184.72	7,136.46	32.32	28.31	133.72	-4,397.31	4,103.40	4,923.81	4,868.42	55.38	88.906		
7,400.00	7,282.87	7,239.82	7,191.56	32.47	28.49	-46.06	-4,397.58	4,103.32	4,922.47	4,866.75	55.72	88.343		
7,450.00	7,332.44	7,294.32	7,246.06	32.67	28.67	-46.43	-4,397.83	4,103.18	4,918.06	4,861.97	56.09	87.684		
7,500.00	7,381.26	7,347.79	7,299.53	32.90	28.84	-47.07	-4,398.03	4,102.99	4,910.62	4,854.15	56.47	86.956		
7,550.00	7,428.96	7,399.99	7,351.72	33.18	29.01	-47.99	-4,398.20	4,102.78	4,900.24	4,843.37	56.87	86.165		
7,600.00	7,475.17	7,451.22	7,402.96	33.48	29.18	-49.20	-4,398.33	4,102.54	4,887.01	4,829.73	57.28	85.317		
7,650.00	7,519.55	7,502.42	7,454.15	33.82	29.34	-50.71	-4,398.48	4,102.20	4,871.04	4,813.34	57.70	84.414		
7,700.00	7,561.76	7,551.17	7,502.90	34.20	29.50	-52.53	-4,398.67	4,101.74	4,852.49	4,794.36	58.13	83.471		
7,750.00	7,601.47	7,573.27	7,525.00	34.60	29.58	-54.51	-4,398.82	4,101.56	4,831.67	4,773.17	58.50	82.586		
7,800.00	7,638.39	7,600.24	7,551.97	35.04	29.67	-56.84	-4,399.05	4,101.34	4,808.76	4,749.87	58.90	81.645		
7,850.00	7,672.23	7,625.11	7,576.84	35.50	29.75	-59.47	-4,399.31	4,101.16	4,783.97	4,724.67	59.30	80.678		
7,900.00	7,702.74	7,647.69	7,599.41	35.99	29.82	-62.42	-4,399.59	4,101.01	4,757.49	4,697.79	59.70	79.690		
7,950.00	7,729.67	7,668.77	7,620.49	36.50	29.89	-65.68	-4,399.89	4,100.88	4,729.56	4,669.45	60.11	78.684		
8,000.00	7,752.84	7,688.30	7,640.02	37.04	29.96	-69.23	-4,400.16	4,100.81	4,700.40	4,639.88	60.52	77.665		
8,050.00	7,772.06	7,704.54	7,656.26	37.60	30.01	-73.02	-4,400.36	4,100.77	4,670.26	4,609.32	60.94	76.643		
8,100.00	7,787.18	7,717.39	7,669.11	38.17	30.05	-76.99	-4,400.51	4,100.77	4,639.39	4,578.04	61.35	75.621		
8,150.00	7,798.10	7,726.76	7,678.48	38.76	30.08	-81.08	-4,400.62	4,100.77	4,608.04	4,546.28	61.77	74.605		
8,200.00	7,804.72	7,732.60	7,684.32	39.36	30.10	-85.21	-4,400.68	4,100.78	4,576.49	4,514.30	62.18	73.601		
8,251.15	7,807.00	7,734.90	7,686.62	39.97	30.11	-89.39	-4,400.71	4,100.78	4,544.25	4,481.65	62.60	72.590		
8,300.00	7,807.00	7,735.32	7,687.04	40.56	30.11	-89.40	-4,400.71	4,100.79	4,513.72	4,450.71	63.01	71.631		
8,400.00	7,807.00	7,736.18	7,687.90	41.80	30.11	-89.42	-4,400.72	4,100.79	4,452.26	4,388.33	63.93	69.644		
8,500.00	7,807.00	7,737.03	7,688.75	43.08	30.11	-89.43	-4,400.73	4,100.79	4,392.21	4,327.28	64.94	67.637		
8,600.00	7,806.99	7,737.88	7,689.60	44.40	30.12	-89.44	-4,400.74	4,100.79	4,333.64	4,267.60	66.04	65.621		
8,700.00	7,806.99	7,738.72	7,690.43	45.74	30.12	-89.46	-4,400.75	4,100.79	4,276.61	4,209.37	67.23	63.609		
8,800.00	7,806.99	7,739.55	7,691.26	47.11	30.12	-89.47	-4,400.76	4,100.80	4,221.17	4,152.66	68.51	61.611		
8,900.00	7,806.99	7,740.37	7,692.09	48.51	30.12	-89.48	-4,400.77	4,100.80	4,167.40	4,097.52	69.88	59.638		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
9,000.00	7,806.99	7,741.19	7,692.90	49.93	30.13	-89.50	-4,400.77	4,100.80	4,115.35	4,044.02	71.32	57.699		
9,100.00	7,806.99	7,742.00	7,693.72	51.38	30.13	-89.51	-4,400.78	4,100.80	4,065.10	3,992.25	72.85	55.802		
9,200.00	7,806.99	7,742.80	7,694.52	52.84	30.13	-89.52	-4,400.79	4,100.80	4,016.70	3,942.26	74.45	53.955		
9,300.00	7,806.98	7,743.60	7,695.32	54.32	30.13	-89.54	-4,400.80	4,100.81	3,970.24	3,894.13	76.11	52.164		
9,400.00	7,806.98	7,744.39	7,696.11	55.82	30.14	-89.55	-4,400.81	4,100.81	3,925.78	3,847.94	77.84	50.435		
9,500.00	7,806.98	7,745.18	7,696.89	57.34	30.14	-89.56	-4,400.82	4,100.81	3,883.38	3,803.75	79.63	48.770		
9,600.00	7,806.98	7,745.96	7,697.67	58.87	30.14	-89.57	-4,400.82	4,100.81	3,843.11	3,761.65	81.47	47.175		
9,700.00	7,806.98	7,746.73	7,698.45	60.41	30.14	-89.59	-4,400.83	4,100.82	3,805.05	3,721.70	83.35	45.650		
9,800.00	7,806.98	7,747.50	7,699.21	61.96	30.15	-89.60	-4,400.84	4,100.82	3,769.26	3,683.98	85.28	44.198		
9,900.00	7,806.97	7,748.26	7,699.97	63.53	30.15	-89.61	-4,400.85	4,100.82	3,735.80	3,648.56	87.24	42.820		
10,000.00	7,806.97	7,749.01	7,700.73	65.10	30.15	-89.62	-4,400.85	4,100.82	3,704.74	3,615.50	89.24	41.516		
10,100.00	7,806.97	7,749.76	7,701.48	66.69	30.15	-89.64	-4,400.86	4,100.83	3,676.14	3,584.89	91.25	40.286		
10,200.00	7,806.97	7,750.00	7,702.22	68.29	30.17	-89.72	-4,400.91	4,100.85	3,650.06	3,556.76	93.29	39.124		
10,300.00	7,806.97	7,750.00	7,702.72	69.89	30.17	-89.72	-4,400.91	4,100.85	3,626.54	3,531.21	95.33	38.042		
10,400.00	7,806.97	7,750.00	7,703.22	71.50	30.17	-89.72	-4,400.91	4,100.85	3,605.64	3,508.28	97.37	37.031		
10,500.00	7,806.97	7,750.00	7,703.72	73.12	30.17	-89.72	-4,400.91	4,100.85	3,587.42	3,488.02	99.40	36.091		
10,600.00	7,806.96	7,750.00	7,704.22	74.75	30.17	-89.72	-4,400.91	4,100.85	3,571.89	3,470.48	101.42	35.220		
10,700.00	7,806.96	7,750.00	7,704.72	76.38	30.17	-89.72	-4,400.91	4,100.85	3,559.12	3,455.70	103.42	34.416		
10,800.00	7,806.96	7,750.00	7,705.22	78.02	30.17	-89.72	-4,400.91	4,100.85	3,549.11	3,443.72	105.39	33.676		
10,900.00	7,806.96	7,750.00	7,705.72	79.66	30.17	-89.72	-4,400.91	4,100.85	3,541.90	3,434.57	107.33	33.001		
11,000.00	7,806.96	7,750.00	7,706.22	81.31	30.17	-89.72	-4,400.91	4,100.85	3,537.51	3,428.28	109.23	32.386		
11,100.00	7,806.96	7,750.00	7,706.72	82.97	30.17	-89.72	-4,400.91	4,100.85	3,535.93	3,424.85	111.09	31.831		
11,105.60	7,806.96	7,750.00	7,706.72	83.06	30.17	-89.72	-4,400.91	4,100.85	3,535.93	3,424.74	111.19	31.801 CC		
11,200.00	7,806.95	7,750.00	7,706.72	84.63	30.17	-89.72	-4,400.91	4,100.85	3,537.19	3,424.30	112.89	31.333 ES		
11,300.00	7,806.95	7,750.00	7,706.72	86.29	30.17	-89.72	-4,400.91	4,100.85	3,541.27	3,426.63	114.64	30.890		
11,400.00	7,806.95	7,750.00	7,706.72	87.96	30.17	-89.72	-4,400.91	4,100.85	3,548.16	3,431.83	116.33	30.500		
11,500.00	7,806.95	7,750.00	7,706.72	89.64	30.17	-89.72	-4,400.91	4,100.85	3,557.86	3,439.90	117.96	30.161		
11,600.00	7,806.95	7,760.57	7,712.28	91.31	30.19	-89.81	-4,400.97	4,100.87	3,570.32	3,450.78	119.54	29.867		
11,700.00	7,806.95	7,761.28	7,712.99	92.99	30.19	-89.82	-4,400.97	4,100.87	3,585.53	3,464.50	121.04	29.624		
11,800.00	7,806.95	7,761.99	7,713.70	94.68	30.19	-89.83	-4,400.98	4,100.88	3,603.46	3,481.00	122.46	29.426		
11,900.00	7,806.94	7,762.69	7,714.41	96.36	30.19	-89.85	-4,400.99	4,100.88	3,624.06	3,500.25	123.81	29.271		
12,000.00	7,806.94	7,763.40	7,715.12	98.05	30.20	-89.86	-4,400.99	4,100.89	3,647.28	3,522.19	125.09	29.158		
12,100.00	7,806.94	7,764.11	7,715.82	99.74	30.20	-89.87	-4,401.00	4,100.89	3,673.08	3,546.79	126.29	29.085		
12,200.00	7,806.94	7,764.81	7,716.53	101.44	30.20	-89.88	-4,401.01	4,100.89	3,701.40	3,573.98	127.42	29.049 SF		
12,300.00	7,806.94	7,765.51	7,717.23	103.14	30.20	-89.89	-4,401.01	4,100.90	3,732.19	3,603.72	128.47	29.050		
12,400.00	7,806.94	7,766.21	7,717.93	104.84	30.21	-89.90	-4,401.02	4,100.90	3,765.38	3,635.93	129.46	29.086		
12,500.00	7,806.93	7,766.91	7,718.63	106.54	30.21	-89.91	-4,401.03	4,100.90	3,800.92	3,670.55	130.37	29.155		
12,600.00	7,806.93	7,767.61	7,719.33	108.25	30.21	-89.93	-4,401.03	4,100.91	3,838.73	3,707.52	131.21	29.256		
12,700.00	7,806.93	7,768.31	7,720.03	109.95	30.21	-89.94	-4,401.04	4,100.91	3,878.75	3,746.76	131.99	29.388		
12,800.00	7,806.93	7,769.01	7,720.72	111.66	30.21	-89.95	-4,401.05	4,100.91	3,920.91	3,788.21	132.70	29.548		
12,900.00	7,806.93	7,769.70	7,721.42	113.37	30.22	-89.96	-4,401.05	4,100.92	3,965.15	3,831.80	133.35	29.736		
13,000.00	7,806.93	7,770.40	7,722.11	115.09	30.22	-89.97	-4,401.06	4,100.92	4,011.39	3,877.45	133.93	29.950		
13,100.00	7,806.93	7,771.09	7,722.80	116.80	30.22	-89.98	-4,401.07	4,100.93	4,059.57	3,925.10	134.47	30.190		
13,200.00	7,806.92	7,771.78	7,723.50	118.52	30.22	-89.99	-4,401.07	4,100.93	4,109.61	3,974.67	134.94	30.454		
13,300.00	7,806.92	7,772.47	7,724.19	120.24	30.22	-90.00	-4,401.08	4,100.93	4,161.46	4,026.09	135.37	30.741		
13,400.00	7,806.92	7,773.16	7,724.88	121.96	30.23	-90.01	-4,401.08	4,100.94	4,215.05	4,079.30	135.75	31.050		
13,500.00	7,806.92	7,773.85	7,725.56	123.68	30.23	-90.03	-4,401.09	4,100.94	4,270.30	4,134.22	136.08	31.381		
13,600.00	7,806.92	7,774.54	7,726.25	125.40	30.23	-90.04	-4,401.10	4,100.95	4,327.16	4,190.79	136.37	31.731		
13,700.00	7,806.92	7,775.22	7,726.94	127.12	30.23	-90.05	-4,401.10	4,100.95	4,385.56	4,248.94	136.62	32.101		
13,800.00	7,806.91	7,775.91	7,727.62	128.85	30.23	-90.06	-4,401.11	4,100.95	4,445.45	4,308.62	136.83	32.488		
13,900.00	7,806.91	7,776.59	7,728.31	130.58	30.24	-90.07	-4,401.12	4,100.96	4,506.75	4,369.75	137.01	32.894		
14,000.00	7,806.91	7,777.27	7,728.99	132.30	30.24	-90.08	-4,401.12	4,100.96	4,569.43	4,432.28	137.15	33.316		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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 23-34 - Wellbore #1 - Wellbore #1													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		
14,100.00	7,806.91	7,777.95	7,729.67	134.03	30.24	-90.09	-4,401.13	4,100.97	4,633.41	4,496.15	137.27	33.755		
14,200.00	7,806.91	7,778.63	7,730.35	135.76	30.24	-90.10	-4,401.14	4,100.97	4,698.65	4,561.30	137.35	34.208		
14,300.00	7,806.91	7,779.31	7,731.03	137.50	30.25	-90.11	-4,401.14	4,100.98	4,765.10	4,627.69	137.42	34.677		
14,400.00	7,806.91	7,779.99	7,731.70	139.23	30.25	-90.13	-4,401.15	4,100.98	4,832.70	4,695.25	137.45	35.159		
14,500.00	7,806.90	7,780.67	7,732.38	140.96	30.25	-90.14	-4,401.15	4,100.98	4,901.41	4,763.95	137.47	35.655		
14,600.00	7,806.90	7,781.34	7,733.06	142.70	30.25	-90.15	-4,401.16	4,100.99	4,971.19	4,833.72	137.46	36.164		
14,700.00	7,806.90	7,782.02	7,733.73	144.43	30.25	-90.16	-4,401.17	4,100.99	5,041.98	4,904.53	137.44	36.685		
14,800.00	7,806.90	7,782.69	7,734.40	146.17	30.26	-90.17	-4,401.17	4,101.00	5,113.74	4,976.34	137.40	37.217		
14,900.00	7,806.90	7,783.36	7,735.08	147.91	30.26	-90.18	-4,401.18	4,101.00	5,186.44	5,049.09	137.35	37.762		
15,000.00	7,806.90	7,784.03	7,735.75	149.64	30.26	-90.19	-4,401.19	4,101.01	5,260.04	5,122.76	137.28	38.316		
15,100.00	7,806.89	7,784.70	7,736.42	151.38	30.26	-90.20	-4,401.19	4,101.01	5,334.49	5,197.30	137.20	38.882		
15,200.00	7,806.89	7,785.37	7,737.08	153.12	30.26	-90.21	-4,401.20	4,101.02	5,409.77	5,272.67	137.11	39.457		
15,300.00	7,806.89	7,786.04	7,737.75	154.86	30.27	-90.22	-4,401.20	4,101.02	5,485.84	5,348.84	137.00	40.042		
15,400.00	7,806.89	7,786.70	7,738.42	156.60	30.27	-90.23	-4,401.21	4,101.03	5,562.67	5,425.78	136.89	40.635		
15,500.00	7,806.89	7,787.37	7,739.08	158.35	30.27	-90.25	-4,401.22	4,101.03	5,640.22	5,503.45	136.77	41.238		
15,600.00	7,806.89	7,788.03	7,739.75	160.09	30.27	-90.26	-4,401.22	4,101.04	5,718.47	5,581.83	136.65	41.849		
15,700.00	7,806.89	7,788.69	7,740.41	161.83	30.27	-90.27	-4,401.23	4,101.04	5,797.39	5,660.88	136.51	42.468		
15,800.00	7,806.88	7,789.36	7,741.07	163.57	30.28	-90.28	-4,401.24	4,101.05	5,876.95	5,740.58	136.37	43.095		
15,900.00	7,806.88	7,790.02	7,741.73	165.32	30.28	-90.29	-4,401.24	4,101.05	5,957.13	5,820.90	136.23	43.729		
16,000.00	7,806.88	7,790.68	7,742.39	167.06	30.28	-90.30	-4,401.25	4,101.06	6,037.90	5,901.82	136.08	44.370		
16,100.00	7,806.88	7,791.33	7,743.05	168.81	30.28	-90.31	-4,401.25	4,101.06	6,119.23	5,983.30	135.93	45.018		
16,200.00	7,806.88	7,791.99	7,743.71	170.56	30.28	-90.32	-4,401.26	4,101.07	6,201.11	6,065.34	135.77	45.673		
16,300.00	7,806.88	7,792.65	7,744.36	172.30	30.29	-90.33	-4,401.27	4,101.07	6,283.52	6,147.90	135.62	46.333		
16,400.00	7,806.87	7,793.30	7,745.02	174.05	30.29	-90.34	-4,401.27	4,101.08	6,366.43	6,230.98	135.45	47.000		
16,500.00	7,806.87	7,793.96	7,745.67	175.80	30.29	-90.35	-4,401.28	4,101.08	6,449.82	6,314.53	135.29	47.673		
16,600.00	7,806.87	7,794.61	7,746.32	177.55	30.29	-90.36	-4,401.28	4,101.09	6,533.69	6,398.56	135.13	48.351		
16,700.00	7,806.87	7,795.26	7,746.97	179.30	30.29	-90.37	-4,401.29	4,101.09	6,617.99	6,483.03	134.97	49.035		
16,800.00	7,806.87	7,795.91	7,747.63	181.04	30.30	-90.38	-4,401.30	4,101.10	6,702.74	6,567.94	134.80	49.724		
16,900.00	7,806.87	7,796.56	7,748.27	182.79	30.30	-90.39	-4,401.30	4,101.10	6,787.89	6,653.26	134.63	50.417		
17,000.00	7,806.87	7,797.21	7,748.92	184.54	30.30	-90.40	-4,401.31	4,101.11	6,873.45	6,738.98	134.47	51.116		
17,100.00	7,806.86	7,797.86	7,749.57	186.30	30.30	-90.42	-4,401.31	4,101.11	6,959.39	6,825.08	134.30	51.819		
17,200.00	7,806.86	7,798.50	7,750.22	188.05	30.30	-90.43	-4,401.32	4,101.12	7,045.70	6,911.56	134.14	52.526		
17,300.00	7,806.86	7,799.15	7,750.86	189.80	30.31	-90.44	-4,401.32	4,101.12	7,132.37	6,998.39	133.97	53.238		
17,400.00	7,806.86	7,799.79	7,751.51	191.55	30.31	-90.45	-4,401.33	4,101.13	7,219.38	7,085.57	133.81	53.953		
17,500.00	7,806.86	7,800.44	7,752.15	193.30	30.31	-90.46	-4,401.34	4,101.13	7,306.73	7,173.08	133.64	54.673		
17,600.00	7,806.86	7,801.08	7,752.79	195.06	30.31	-90.47	-4,401.34	4,101.14	7,394.39	7,260.91	133.48	55.396		
17,700.00	7,806.85	7,801.72	7,753.43	196.81	30.31	-90.48	-4,401.35	4,101.15	7,482.37	7,349.05	133.32	56.123		
17,800.00	7,806.85	7,802.36	7,754.07	198.56	30.32	-90.49	-4,401.35	4,101.15	7,570.64	7,437.48	133.16	56.853		
17,898.35	7,807.00	7,803.09	7,754.80	200.29	30.32	-90.50	-4,401.36	4,101.16	7,657.74	7,524.73	133.01	57.574		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	130.25	-3,991.93	4,715.27	6,178.69					
100.00	100.00	28.58	28.58	0.13	0.04	130.25	-3,991.97	4,715.19	6,178.11	6,177.93	0.17	N/A		
174.00	174.00	90.00	90.00	0.40	0.19	130.26	-3,992.31	4,714.65	6,177.90	6,177.31	0.59	N/A		
200.00	200.00	103.12	103.12	0.49	0.24	130.26	-3,992.45	4,714.53	6,177.91	6,177.19	0.73	8,495.677		
300.00	300.00	151.95	151.94	0.85	0.41	130.27	-3,993.46	4,714.16	6,178.60	6,177.34	1.26	4,898.442		
400.00	400.00	235.00	234.94	1.21	0.71	130.29	-3,996.04	4,713.06	6,179.63	6,177.71	1.92	3,217.458		
500.00	500.00	264.00	263.90	1.57	0.82	130.31	-3,997.40	4,712.60	6,181.50	6,179.11	2.39	2,591.030		
600.00	600.00	316.87	316.64	1.93	1.02	130.34	-4,000.84	4,711.69	6,184.37	6,181.43	2.94	2,103.474		
700.00	700.00	385.00	384.54	2.29	1.27	130.38	-4,006.26	4,710.10	6,187.79	6,184.23	3.56	1,740.523		
800.00	800.00	477.00	475.98	2.64	1.64	130.47	-4,015.75	4,706.51	6,191.54	6,187.26	4.27	1,448.913		
900.00	900.00	516.20	514.83	3.00	1.80	130.52	-4,020.63	4,704.56	6,195.89	6,191.10	4.79	1,293.583		
1,000.00	1,000.00	549.33	547.61	3.36	1.94	130.56	-4,025.18	4,703.04	6,201.31	6,196.03	5.28	1,173.879		
1,100.00	1,100.00	598.00	595.66	3.72	2.15	130.62	-4,032.51	4,700.76	6,207.65	6,201.81	5.84	1,062.344		
1,200.00	1,200.00	638.10	635.13	4.08	2.33	130.68	-4,039.31	4,698.67	6,214.88	6,208.51	6.37	975.224		
1,300.00	1,300.00	688.00	684.04	4.44	2.56	130.77	-4,048.78	4,695.82	6,223.05	6,216.10	6.95	895.260		
1,400.00	1,399.98	727.56	722.64	4.78	2.75	-20.41	-4,057.05	4,693.29	6,230.44	6,222.97	7.47	833.969		
1,500.00	1,499.84	764.19	758.23	5.11	2.93	-20.30	-4,065.36	4,690.84	6,235.58	6,227.62	7.97	782.661		
1,600.00	1,599.45	813.00	805.38	5.44	3.19	-20.19	-4,077.47	4,687.29	6,238.43	6,229.90	8.54	730.819		
1,700.00	1,698.70	862.54	852.92	5.79	3.46	-20.09	-4,090.79	4,683.27	6,238.85	6,229.72	9.13	683.649		
1,800.00	1,797.47	908.00	896.29	6.15	3.72	-20.01	-4,103.81	4,679.21	6,236.75	6,227.04	9.71	642.515		
1,900.00	1,895.62	1,900.00	983.76	6.53	9.91	-19.85	-4,132.52	4,670.18	6,232.41	6,215.51	16.89	368.899		
1,912.93	1,908.27	1,013.54	996.06	6.58	4.37	-19.82	-4,136.59	4,668.78	6,231.55	6,220.84	10.71	581.968		
2,000.00	1,993.35	1,049.97	1,030.40	6.93	4.60	-19.74	-4,148.14	4,664.92	6,225.97	6,214.74	11.22	554.744		
2,100.00	2,091.07	1,113.45	1,090.17	7.34	5.00	-19.60	-4,168.53	4,658.60	6,220.36	6,208.40	11.95	520.367		
2,200.00	2,188.79	1,186.43	1,159.13	7.77	5.47	-19.45	-4,191.56	4,652.15	6,215.24	6,202.49	12.75	487.594		
2,300.00	2,286.51	1,244.29	1,213.76	8.20	5.84	-19.33	-4,209.97	4,647.22	6,210.64	6,197.19	13.45	461.711		
2,400.00	2,384.23	1,289.84	1,256.65	8.65	6.14	-19.24	-4,224.83	4,643.49	6,206.89	6,192.81	14.09	440.666		
2,500.00	2,481.95	1,410.75	1,370.66	9.10	6.93	-18.99	-4,264.01	4,634.27	6,203.47	6,188.28	15.19	408.467		
2,600.00	2,579.67	1,492.51	1,447.24	9.56	7.49	-18.80	-4,291.68	4,626.85	6,200.10	6,184.03	16.07	385.851		
2,700.00	2,677.39	1,610.96	1,557.18	10.02	8.33	-18.50	-4,333.80	4,613.92	6,196.82	6,179.60	17.22	359.870		
2,800.00	2,775.11	1,755.30	1,691.14	10.49	9.36	-18.14	-4,384.84	4,597.07	6,192.97	6,174.41	18.55	333.793		
2,900.00	2,872.83	1,936.52	1,860.94	10.96	10.61	-17.71	-4,445.02	4,577.48	6,188.36	6,168.26	20.10	307.904		
3,000.00	2,970.55	2,011.00	1,930.85	11.44	11.12	-17.54	-4,469.38	4,569.32	6,183.33	6,162.39	20.94	295.222		
3,100.00	3,068.27	2,143.77	2,056.35	11.92	11.99	-17.25	-4,510.55	4,555.83	6,177.57	6,155.44	22.14	279.063		
3,200.00	3,165.99	2,201.00	2,110.71	12.40	12.36	-17.14	-4,527.83	4,551.26	6,172.80	6,149.95	22.85	270.164		
3,300.00	3,263.71	2,250.95	2,158.02	12.88	12.69	-17.04	-4,543.35	4,547.31	6,168.77	6,145.25	23.52	262.245		
3,400.00	3,361.43	2,336.59	2,238.44	13.37	13.27	-16.85	-4,571.58	4,538.85	6,165.05	6,140.62	24.43	252.360		
3,500.00	3,459.15	2,391.00	2,289.39	13.86	13.65	-16.72	-4,589.85	4,533.33	6,161.78	6,136.64	25.14	245.051		
3,600.00	3,556.87	3,600.00	2,419.35	14.35	21.92	-16.40	-4,636.66	4,520.02	6,159.12	6,125.99	33.13	185.931		
3,700.00	3,654.59	2,683.17	2,563.71	14.84	15.66	-16.05	-4,686.13	4,504.61	6,154.86	6,127.12	27.74	221.871		
3,800.00	3,752.31	2,782.18	2,656.68	15.34	16.34	-15.82	-4,718.49	4,493.97	6,150.75	6,122.01	28.74	214.018		
3,900.00	3,850.03	2,857.60	2,727.66	15.83	16.85	-15.65	-4,742.82	4,486.42	6,146.91	6,117.33	29.58	207.812		
4,000.00	3,947.75	2,995.74	2,858.00	16.33	17.78	-15.35	-4,786.60	4,473.06	6,142.95	6,112.14	30.80	199.415		
4,100.00	4,045.47	3,076.11	2,933.68	16.83	18.32	-15.17	-4,812.34	4,464.68	6,138.87	6,107.19	31.67	193.812		
4,200.00	4,143.19	3,128.36	2,982.67	17.32	18.68	-15.04	-4,829.60	4,459.09	6,135.45	6,103.07	32.37	189.534		
4,300.00	4,240.91	3,227.86	3,075.91	17.82	19.37	-14.81	-4,862.77	4,448.87	6,132.63	6,099.26	33.37	183.782		
4,400.00	4,338.63	3,284.37	3,128.93	18.32	19.76	-14.68	-4,881.55	4,443.34	6,130.09	6,096.01	34.09	179.839		
4,500.00	4,436.35	3,441.56	3,276.58	18.82	20.84	-14.31	-4,933.06	4,427.44	6,126.96	6,091.53	35.44	172.887		
4,600.00	4,534.07	4,600.00	3,393.78	19.33	28.66	-14.04	-4,973.08	4,415.62	6,124.15	6,081.19	42.96	142.552		
4,700.00	4,631.79	3,646.88	3,469.98	19.83	22.24	-13.85	-4,998.81	4,406.94	6,120.38	6,082.95	37.44	163.483		
4,800.00	4,729.51	3,692.00	3,512.27	20.33	22.54	-13.75	-5,013.90	4,402.44	6,118.03	6,079.96	38.08	160.670		
4,900.00	4,827.23	3,939.51	3,746.16	20.83	24.19	-13.21	-5,091.39	4,379.63	6,115.22	6,075.28	39.94	153.122		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWVD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.00	4,924.95	3,998.63	3,802.53	21.34	24.56	-13.10	-5,108.57	4,374.90	6,111.19	6,070.55	40.64	150.369		
5,100.00	5,022.67	4,086.18	3,885.59	21.84	25.13	-12.91	-5,135.05	4,366.83	6,107.45	6,065.93	41.52	147.111		
5,200.00	5,120.39	4,135.00	3,931.84	22.35	25.45	-12.81	-5,150.06	4,362.53	6,104.38	6,062.22	42.16	144.779		
5,300.00	5,218.11	4,232.15	4,023.69	22.85	26.09	-12.60	-5,180.40	4,353.51	6,101.51	6,058.41	43.11	141.549		
5,400.00	5,315.83	4,330.00	4,102.49	23.36	34.09	-12.41	-5,207.57	4,345.12	6,099.20	6,048.50	50.70	120.299		
5,500.00	5,413.55	4,357.90	4,141.85	23.86	26.96	-12.31	-5,221.46	4,340.71	6,097.32	6,052.73	44.59	136.743		
5,600.00	5,511.27	4,525.19	4,298.57	24.37	28.12	-11.91	-5,277.39	4,323.51	6,096.09	6,050.09	45.99	132.541		
5,700.00	5,608.99	4,579.00	4,349.07	24.88	28.49	-11.78	-5,295.04	4,317.73	6,094.04	6,047.37	46.68	130.558		
5,800.00	5,706.71	4,633.79	4,400.40	25.38	28.88	-11.65	-5,313.33	4,312.05	6,092.78	6,045.42	47.36	128.638		
5,900.00	5,804.43	4,683.98	4,588.85	25.89	30.24	-11.20	-5,378.34	4,293.87	6,091.92	6,042.98	48.94	124.483		
6,000.00	5,902.15	4,971.38	4,719.05	26.40	31.13	-10.91	-5,420.38	4,281.34	6,089.27	6,039.18	50.09	121.559		
6,100.00	5,999.87	5,048.03	4,792.32	26.91	31.61	-10.77	-5,442.31	4,276.24	6,086.62	6,035.75	50.87	119.658		
6,200.00	6,097.59	5,112.94	4,854.26	27.42	32.02	-10.65	-5,461.20	4,271.95	6,084.46	6,032.88	51.58	117.959		
6,300.00	6,195.30	5,309.00	5,040.12	27.92	33.29	-10.23	-5,520.66	4,253.04	6,081.22	6,028.15	53.07	114.579		
6,400.00	6,293.02	5,363.45	5,091.61	28.43	33.66	-10.10	-5,537.41	4,247.32	6,078.25	6,024.50	53.75	113.084		
6,500.00	6,390.74	5,516.91	5,236.94	28.94	34.66	-9.76	-5,584.09	4,231.73	6,075.30	6,020.30	55.00	110.470		
6,600.00	6,488.46	5,602.33	5,318.40	29.45	35.20	-9.59	-5,608.75	4,224.40	6,072.09	6,016.26	55.83	108.769		
6,638.14	6,525.73	5,641.44	5,355.64	29.64	35.45	-9.51	-5,620.17	4,220.92	6,070.91	6,014.73	56.18	108.062		
6,700.00	6,586.32	5,727.89	5,437.82	29.95	36.00	-9.32	-5,645.66	4,212.49	6,069.53	6,012.64	56.89	106.695		
6,735.98	6,621.68	5,742.99	5,452.14	30.12	36.10	-9.29	-5,650.16	4,210.95	6,069.34	6,012.24	57.10	106.299		
6,800.00	6,684.79	5,774.29	5,481.83	30.42	36.31	-9.22	-5,659.59	4,207.81	6,070.38	6,012.88	57.49	105.583		
6,900.00	6,783.81	5,848.74	5,552.32	30.85	36.79	-9.07	-5,682.45	4,200.62	6,075.52	6,017.27	58.25	104.301		
7,000.00	6,883.25	7,000.00	6,115.40	31.24	42.97	-7.97	-5,829.40	4,152.89	6,082.30	6,018.15	64.14	94.824		
7,100.00	6,983.00	6,763.97	6,441.70	31.60	41.62	-7.57	-5,881.23	4,134.30	6,084.59	6,021.51	63.08	96.456		
7,200.00	7,082.93	7,363.95	7,039.78	31.92	43.40	-7.29	-5,917.37	4,119.76	6,084.63	6,019.86	64.77	93.944		
7,251.07	7,134.00	7,416.45	7,092.29	32.06	43.49	144.01	-5,916.98	4,119.73	6,083.87	6,018.83	65.04	93.541		
7,300.00	7,182.93	7,484.35	7,160.19	32.19	43.61	144.00	-5,916.18	4,119.84	6,083.44	6,018.13	65.30	93.155		
7,351.07	7,234.00	7,538.86	7,214.68	32.32	43.70	144.00	-5,915.23	4,120.15	6,082.89	6,017.32	65.57	92.775		
7,400.00	7,282.87	7,580.41	7,256.23	32.47	43.77	-35.81	-5,914.40	4,120.58	6,080.70	6,014.88	65.82	92.380		
7,450.00	7,332.44	7,610.65	7,286.45	32.67	43.82	-36.17	-5,913.79	4,121.01	6,075.09	6,008.99	66.10	91.911		
7,500.00	7,381.26	7,639.94	7,315.73	32.90	43.87	-36.75	-5,913.25	4,121.52	6,066.16	5,999.77	66.39	91.374		
7,550.00	7,428.96	7,677.00	7,352.78	33.18	43.93	-37.59	-5,912.63	4,122.30	6,053.98	5,987.29	66.70	90.768		
7,600.00	7,475.17	7,695.16	7,370.94	33.48	43.96	-38.63	-5,912.37	4,122.73	6,038.64	5,971.63	67.00	90.125		
7,650.00	7,519.55	7,720.33	7,396.10	33.82	44.00	-39.96	-5,912.08	4,123.33	6,020.27	5,952.94	67.32	89.424		
7,700.00	7,561.76	7,744.34	7,420.09	34.20	44.05	-41.59	-5,911.88	4,123.93	5,999.00	5,931.35	67.65	88.680		
7,750.00	7,601.47	7,750.00	7,492.42	34.60	44.06	-43.81	-5,911.27	4,125.58	5,974.84	5,906.95	67.89	88.003		
7,800.00	7,638.39	7,897.21	7,572.92	35.04	44.32	-46.55	-5,910.20	4,127.16	5,947.85	5,879.45	68.40	86.952		
7,850.00	7,672.23	7,922.70	7,598.40	35.50	44.36	-49.44	-5,909.77	4,127.63	5,918.31	5,849.57	68.74	86.096		
7,900.00	7,702.74	7,945.63	7,621.33	35.99	44.40	-52.81	-5,909.39	4,128.08	5,886.66	5,817.59	69.08	85.219		
7,950.00	7,729.67	7,962.00	7,637.69	36.50	44.43	-56.64	-5,909.13	4,128.42	5,853.16	5,783.75	69.41	84.331		
8,000.00	7,752.84	7,962.00	7,637.69	37.04	44.43	-60.84	-5,909.13	4,128.42	5,818.11	5,748.39	69.72	83.445		
8,050.00	7,772.06	7,986.03	7,661.71	37.60	44.47	-65.87	-5,908.79	4,128.96	5,781.69	5,711.63	70.06	82.527		
8,100.00	7,787.18	7,993.63	7,669.31	38.17	44.49	-71.22	-5,908.69	4,129.15	5,744.27	5,673.90	70.38	81.621		
8,150.00	7,798.10	7,999.06	7,674.73	38.76	44.50	-76.98	-5,908.63	4,129.28	5,706.11	5,635.42	70.69	80.716		
8,200.00	7,804.72	8,002.25	7,677.92	39.36	44.50	-83.01	-5,908.59	4,129.36	5,667.50	5,596.49	71.00	79.818		
8,251.15	7,807.00	8,003.15	7,678.82	39.97	44.51	-89.29	-5,908.58	4,129.39	5,627.83	5,556.51	71.32	78.911		
8,300.00	7,807.00	8,002.86	7,678.53	40.56	44.50	-89.28	-5,908.58	4,129.38	5,590.05	5,518.42	71.62	78.047		
8,400.00	7,807.00	8,002.26	7,677.94	41.80	44.50	-89.27	-5,908.59	4,129.36	5,513.25	5,440.95	72.31	76.249		
8,500.00	7,807.00	8,001.66	7,677.34	43.08	44.50	-89.27	-5,908.60	4,129.35	5,437.21	5,364.15	73.06	74.418		
8,600.00	7,806.99	8,001.05	7,676.73	44.40	44.50	-89.26	-5,908.60	4,129.33	5,361.96	5,288.06	73.90	72.559		
8,700.00	7,806.99	8,000.43	7,676.11	45.74	44.50	-89.25	-5,908.61	4,129.32	5,287.52	5,212.71	74.81	70.679		
8,800.00	7,806.99	7,999.81	7,675.49	47.11	44.50	-89.24	-5,908.62	4,129.30	5,213.94	5,138.14	75.80	68.784		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 61-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
8,900.00	7,806.99	7,999.18	7,674.85	48.51	44.50	-89.23	-5,908.62	4,129.28	5,141.25	5,064.38	76.87	66.880		
9,000.00	7,806.99	7,998.54	7,674.22	49.93	44.50	-89.21	-5,908.63	4,129.27	5,069.50	4,991.47	78.02	64.974		
9,100.00	7,806.99	7,997.89	7,673.57	51.38	44.50	-89.20	-5,908.64	4,129.25	4,998.71	4,919.46	79.25	63.073		
9,200.00	7,806.99	7,997.24	7,672.92	52.84	44.49	-89.19	-5,908.65	4,129.24	4,928.94	4,848.38	80.56	61.182		
9,300.00	7,806.98	7,996.58	7,672.26	54.32	44.49	-89.18	-5,908.65	4,129.22	4,860.22	4,778.27	81.95	59.308		
9,400.00	7,806.98	7,995.91	7,671.59	55.82	44.49	-89.17	-5,908.66	4,129.20	4,792.60	4,709.19	83.41	57.456		
9,500.00	7,806.98	7,995.23	7,670.91	57.34	44.49	-89.16	-5,908.67	4,129.18	4,726.13	4,641.18	84.95	55.632		
9,600.00	7,806.98	7,994.55	7,670.22	58.87	44.49	-89.15	-5,908.68	4,129.17	4,660.86	4,574.29	86.57	53.840		
9,700.00	7,806.98	7,993.85	7,669.53	60.41	44.49	-89.14	-5,908.69	4,129.15	4,596.84	4,508.58	88.26	52.085		
9,800.00	7,806.98	7,993.15	7,668.83	61.96	44.49	-89.13	-5,908.70	4,129.13	4,534.12	4,444.10	90.02	50.370		
9,900.00	7,806.97	7,992.44	7,668.12	63.53	44.49	-89.12	-5,908.71	4,129.12	4,472.75	4,380.91	91.84	48.700		
10,000.00	7,806.97	7,991.72	7,667.40	65.10	44.48	-89.11	-5,908.71	4,129.10	4,412.80	4,319.06	93.74	47.076		
10,100.00	7,806.97	7,990.99	7,666.67	66.69	44.48	-89.09	-5,908.72	4,129.08	4,354.32	4,258.62	95.70	45.501		
10,200.00	7,806.97	7,990.25	7,665.93	68.29	44.48	-89.08	-5,908.73	4,129.06	4,297.37	4,199.65	97.72	43.978		
10,300.00	7,806.97	7,989.51	7,665.18	69.89	44.48	-89.07	-5,908.74	4,129.04	4,242.01	4,142.22	99.79	42.507		
10,400.00	7,806.97	7,988.75	7,664.43	71.50	44.48	-89.06	-5,908.75	4,129.03	4,188.31	4,086.39	101.93	41.091		
10,500.00	7,806.97	7,987.98	7,663.66	73.12	44.48	-89.04	-5,908.76	4,129.01	4,136.33	4,032.22	104.11	39.730		
10,600.00	7,806.96	7,987.21	7,662.89	74.75	44.48	-89.03	-5,908.77	4,128.99	4,086.14	3,979.80	106.34	38.426		
10,700.00	7,806.96	7,986.42	7,662.10	76.38	44.47	-89.02	-5,908.78	4,128.97	4,037.80	3,929.19	108.61	37.177		
10,800.00	7,806.96	7,985.62	7,661.30	78.02	44.47	-89.01	-5,908.79	4,128.95	3,991.38	3,880.46	110.92	35.985		
10,900.00	7,806.96	7,984.82	7,660.50	79.66	44.47	-88.99	-5,908.80	4,128.93	3,946.94	3,833.69	113.26	34.849		
11,000.00	7,806.96	7,984.00	7,659.68	81.31	44.47	-88.98	-5,908.81	4,128.91	3,904.57	3,788.94	115.62	33.770		
11,100.00	7,806.96	7,983.17	7,658.85	82.97	44.47	-88.97	-5,908.83	4,128.89	3,864.31	3,746.30	118.01	32.746		
11,200.00	7,806.95	7,982.33	7,658.01	84.63	44.47	-88.95	-5,908.84	4,128.87	3,826.25	3,705.84	120.41	31.778		
11,300.00	7,806.95	7,981.48	7,657.16	86.29	44.47	-88.94	-5,908.85	4,128.85	3,790.44	3,667.63	122.81	30.864		
11,400.00	7,806.95	7,980.62	7,656.30	87.96	44.46	-88.93	-5,908.86	4,128.83	3,756.95	3,631.74	125.21	30.004		
11,500.00	7,806.95	7,979.74	7,655.42	89.64	44.46	-88.91	-5,908.87	4,128.81	3,725.85	3,598.24	127.61	29.197		
11,600.00	7,806.95	7,978.86	7,654.54	91.31	44.46	-88.90	-5,908.88	4,128.79	3,697.19	3,567.20	129.99	28.442		
11,700.00	7,806.95	7,977.96	7,653.64	92.99	44.46	-88.88	-5,908.90	4,128.77	3,671.03	3,538.68	132.35	27.738		
11,800.00	7,806.95	7,977.05	7,652.73	94.68	44.46	-88.87	-5,908.91	4,128.75	3,647.43	3,512.75	134.67	27.083		
11,900.00	7,806.94	7,976.12	7,651.81	96.36	44.46	-88.85	-5,908.92	4,128.73	3,626.43	3,489.47	136.96	26.478		
12,000.00	7,806.94	7,975.19	7,650.87	98.05	44.45	-88.84	-5,908.94	4,128.71	3,608.08	3,468.88	139.20	25.920		
12,100.00	7,806.94	7,974.23	7,649.92	99.74	44.45	-88.82	-5,908.95	4,128.69	3,592.42	3,451.04	141.38	25.409		
12,200.00	7,806.94	7,973.27	7,648.96	101.44	44.45	-88.81	-5,908.96	4,128.66	3,579.49	3,435.98	143.50	24.943		
12,300.00	7,806.94	7,972.29	7,647.98	103.14	44.45	-88.79	-5,908.98	4,128.64	3,569.31	3,423.75	145.56	24.522		
12,400.00	7,806.94	7,971.30	7,646.99	104.84	44.45	-88.78	-5,908.99	4,128.62	3,561.91	3,414.38	147.53	24.143		
12,500.00	7,806.93	7,970.29	7,645.98	106.54	44.45	-88.76	-5,909.01	4,128.60	3,557.31	3,407.88	149.43	23.806		
12,600.00	7,806.93	7,969.20	7,637.69	108.25	44.43	-88.63	-5,909.13	4,128.42	3,555.52	3,404.31	151.21	23.513		
12,613.96	7,806.93	7,962.00	7,637.69	108.48	44.43	-88.63	-5,909.13	4,128.42	3,555.50	3,404.04	151.46	23.475 CC		
12,700.00	7,806.93	7,962.00	7,637.69	109.95	44.43	-88.63	-5,909.13	4,128.42	3,556.54	3,403.61	152.93	23.256 ES		
12,800.00	7,806.93	7,962.00	7,637.69	111.66	44.43	-88.63	-5,909.13	4,128.42	3,560.36	3,405.81	154.55	23.037		
12,900.00	7,806.93	7,962.00	7,637.69	113.37	44.43	-88.63	-5,909.13	4,128.42	3,566.98	3,410.91	156.07	22.855		
13,000.00	7,806.93	7,962.00	7,637.69	115.09	44.43	-88.63	-5,909.13	4,128.42	3,576.39	3,418.90	157.49	22.709		
13,100.00	7,806.93	7,962.00	7,637.69	116.80	44.43	-88.63	-5,909.13	4,128.42	3,588.56	3,429.76	158.80	22.597		
13,200.00	7,806.92	7,962.96	7,638.65	118.52	44.43	-88.64	-5,909.12	4,128.44	3,603.47	3,443.45	160.02	22.519		
13,300.00	7,806.92	7,961.62	7,637.31	120.24	44.43	-88.62	-5,909.14	4,128.41	3,621.08	3,459.96	161.12	22.475		
13,400.00	7,806.92	7,960.28	7,635.97	121.96	44.43	-88.60	-5,909.16	4,128.38	3,641.35	3,479.23	162.11	22.462 SF		
13,500.00	7,806.92	7,958.92	7,634.61	123.68	44.43	-88.58	-5,909.18	4,128.36	3,664.23	3,501.23	163.01	22.479		
13,600.00	7,806.92	7,957.57	7,633.26	125.40	44.42	-88.55	-5,909.20	4,128.33	3,689.69	3,525.89	163.80	22.526		
13,700.00	7,806.92	7,956.20	7,631.89	127.12	44.42	-88.53	-5,909.22	4,128.30	3,717.66	3,553.17	164.49	22.601		
13,800.00	7,806.91	7,954.83	7,630.52	128.85	44.42	-88.51	-5,909.24	4,128.27	3,748.09	3,583.00	165.09	22.703		
13,900.00	7,806.91	7,953.45	7,629.14	130.58	44.42	-88.49	-5,909.27	4,128.24	3,780.92	3,615.32	165.60	22.832		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 34-T1N-R68W - BICKLER 24-34 - Wellbore #1 - Wellbore #1												Offset Site Error:	0.00 usft
Survey Program: 61-MWD												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,000.00	7,806.91	7,952.07	7,627.76	132.30	44.41	-88.47	-5,909.29	4,128.21	3,816.09	3,650.07	166.02	22.986	
14,100.00	7,806.91	7,950.68	7,626.37	134.03	44.41	-88.44	-5,909.31	4,128.18	3,853.53	3,687.18	166.35	23.165	
14,200.00	7,806.91	7,949.28	7,624.97	135.76	44.41	-88.42	-5,909.33	4,128.16	3,893.19	3,726.58	166.61	23.367	
14,300.00	7,806.91	7,947.87	7,623.57	137.50	44.41	-88.40	-5,909.36	4,128.13	3,934.98	3,768.19	166.79	23.593	
14,400.00	7,806.91	7,946.46	7,622.16	139.23	44.40	-88.38	-5,909.38	4,128.10	3,978.85	3,811.95	166.90	23.840	
14,500.00	7,806.90	7,945.05	7,620.74	140.96	44.40	-88.35	-5,909.40	4,128.07	4,024.72	3,857.78	166.94	24.108	
14,600.00	7,806.90	7,943.62	7,619.32	142.70	44.40	-88.33	-5,909.42	4,128.04	4,072.53	3,905.61	166.93	24.397	
14,700.00	7,806.90	7,942.19	7,617.89	144.43	44.40	-88.31	-5,909.45	4,128.01	4,122.22	3,955.36	166.85	24.706	
14,800.00	7,806.90	7,940.75	7,616.45	146.17	44.39	-88.28	-5,909.47	4,127.98	4,173.71	4,006.98	166.73	25.033	
14,900.00	7,806.90	7,939.30	7,615.00	147.91	44.39	-88.26	-5,909.49	4,127.96	4,226.93	4,060.38	166.56	25.378	
15,000.00	7,806.90	7,937.85	7,613.55	149.64	44.39	-88.24	-5,909.52	4,127.93	4,281.83	4,115.49	166.34	25.741	
15,100.00	7,806.89	7,936.39	7,612.09	151.38	44.39	-88.21	-5,909.54	4,127.90	4,338.34	4,172.25	166.09	26.120	
15,200.00	7,806.89	7,934.93	7,610.62	153.12	44.38	-88.19	-5,909.56	4,127.87	4,396.40	4,230.60	165.80	26.516	
15,300.00	7,806.89	7,933.45	7,609.15	154.86	44.38	-88.17	-5,909.59	4,127.84	4,455.95	4,290.47	165.48	26.927	
15,400.00	7,806.89	7,931.97	7,607.67	156.60	44.38	-88.14	-5,909.61	4,127.81	4,516.92	4,351.79	165.13	27.354	
15,500.00	7,806.89	7,930.48	7,606.18	158.35	44.38	-88.12	-5,909.64	4,127.78	4,579.27	4,414.51	164.76	27.794	
15,600.00	7,806.89	7,928.98	7,604.68	160.09	44.37	-88.09	-5,909.66	4,127.75	4,642.93	4,478.57	164.36	28.248	
15,700.00	7,806.89	7,927.48	7,603.18	161.83	44.37	-88.07	-5,909.69	4,127.72	4,707.86	4,543.91	163.94	28.716	
15,800.00	7,806.88	7,925.97	7,601.67	163.57	44.37	-88.05	-5,909.71	4,127.69	4,773.99	4,610.48	163.51	29.196	
15,900.00	7,806.88	7,924.45	7,600.15	165.32	44.37	-88.02	-5,909.74	4,127.67	4,841.29	4,678.22	163.07	29.689	
16,000.00	7,806.88	7,922.92	7,598.63	167.06	44.36	-88.00	-5,909.76	4,127.64	4,909.70	4,747.10	162.61	30.194	
16,100.00	7,806.88	7,921.39	7,597.09	168.81	44.36	-87.97	-5,909.79	4,127.61	4,979.18	4,817.04	162.14	30.709	
16,200.00	7,806.88	7,919.85	7,595.55	170.56	44.36	-87.95	-5,909.81	4,127.58	5,049.69	4,888.02	161.66	31.236	
16,300.00	7,806.88	7,918.30	7,594.00	172.30	44.35	-87.92	-5,909.84	4,127.55	5,121.17	4,959.99	161.18	31.773	
16,400.00	7,806.87	7,916.74	7,592.45	174.05	44.35	-87.90	-5,909.87	4,127.52	5,193.60	5,032.91	160.69	32.320	
16,500.00	7,806.87	7,915.18	7,590.88	175.80	44.35	-87.87	-5,909.89	4,127.49	5,266.93	5,106.73	160.20	32.877	
16,600.00	7,806.87	7,913.60	7,589.31	177.55	44.35	-87.85	-5,909.92	4,127.46	5,341.12	5,181.42	159.71	33.444	
16,700.00	7,806.87	7,912.02	7,587.73	179.30	44.34	-87.82	-5,909.95	4,127.43	5,416.15	5,256.94	159.21	34.019	
16,800.00	7,806.87	7,910.43	7,586.14	181.04	44.34	-87.80	-5,909.97	4,127.40	5,491.97	5,333.25	158.72	34.603	
16,900.00	7,806.87	7,908.83	7,584.54	182.79	44.34	-87.77	-5,910.00	4,127.37	5,568.55	5,410.33	158.22	35.195	
17,000.00	7,806.87	7,907.23	7,582.94	184.54	44.34	-87.74	-5,910.03	4,127.34	5,645.86	5,488.13	157.73	35.795	
17,100.00	7,806.86	7,905.62	7,581.32	186.30	44.33	-87.72	-5,910.05	4,127.31	5,723.88	5,566.64	157.24	36.403	
17,200.00	7,806.86	7,903.99	7,579.70	188.05	44.33	-87.69	-5,910.08	4,127.28	5,802.57	5,645.82	156.75	37.018	
17,300.00	7,806.86	7,902.36	7,578.07	189.80	44.33	-87.67	-5,910.11	4,127.25	5,881.91	5,725.64	156.27	37.640	
17,400.00	7,806.86	7,900.72	7,576.43	191.55	44.32	-87.64	-5,910.14	4,127.22	5,961.87	5,806.08	155.79	38.269	
17,500.00	7,806.86	7,899.07	7,574.78	193.30	44.32	-87.61	-5,910.17	4,127.19	6,042.42	5,887.11	155.31	38.905	
17,600.00	7,806.86	7,897.42	7,573.13	195.06	44.32	-87.59	-5,910.20	4,127.16	6,123.55	5,968.71	154.84	39.547	
17,700.00	7,806.85	7,895.75	7,571.46	196.81	44.32	-87.56	-5,910.23	4,127.14	6,205.23	6,050.85	154.38	40.195	
17,800.00	7,806.85	7,894.08	7,569.79	198.56	44.31	-87.53	-5,910.25	4,127.11	6,287.43	6,133.52	153.92	40.850	
17,898.35	7,807.00	7,892.57	7,568.28	200.29	44.31	-87.51	-5,910.28	4,127.08	6,368.78	6,215.31	153.47	41.498	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	130.09	-3,975.53	4,722.55	6,173.67					
100.00	100.00	18.28	18.28	0.13	0.03	130.09	-3,975.53	4,722.54	6,173.11	6,172.94	0.17	N/A		
200.00	200.00	125.79	125.79	0.49	0.22	130.09	-3,975.55	4,722.42	6,173.03	6,172.31	0.72	8,616.873		
300.00	300.00	233.31	233.31	0.85	0.41	130.09	-3,975.59	4,722.10	6,172.82	6,171.56	1.27	4,876.344		
400.00	400.00	340.82	340.82	1.21	0.61	130.10	-3,975.65	4,721.59	6,172.50	6,170.68	1.82	3,400.178		
500.00	500.00	448.33	448.33	1.57	0.80	130.10	-3,975.74	4,720.89	6,172.05	6,169.69	2.36	2,609.957		
600.00	600.00	555.84	555.83	1.93	0.99	130.11	-3,975.85	4,719.99	6,171.48	6,168.57	2.91	2,117.684		
700.00	700.00	663.35	663.33	2.29	1.18	130.12	-3,975.98	4,718.91	6,170.79	6,167.33	3.46	1,781.562		
800.00	800.00	770.85	770.83	2.64	1.37	130.12	-3,976.14	4,717.64	6,169.98	6,165.97	4.01	1,537.453		
900.00	900.00	878.34	878.31	3.00	1.56	130.14	-3,976.32	4,716.18	6,169.05	6,164.49	4.56	1,352.114		
1,000.00	1,000.00	985.83	985.79	3.36	1.75	130.15	-3,976.52	4,714.52	6,167.99	6,162.88	5.11	1,206.595		
1,100.00	1,100.00	1,093.32	1,093.26	3.72	1.94	130.16	-3,976.75	4,712.68	6,166.82	6,161.16	5.66	1,089.301		
1,200.00	1,200.00	1,200.80	1,200.72	4.08	2.14	130.17	-3,977.00	4,710.64	6,165.52	6,159.31	6.21	992.743		
1,300.00	1,300.00	1,299.46	1,299.36	4.44	2.58	130.19	-3,977.21	4,708.78	6,164.22	6,157.21	7.01	879.439		
1,400.00	1,399.98	1,414.10	1,413.98	4.78	2.99	-21.12	-3,977.39	4,706.50	6,161.18	6,153.41	7.76	793.620		
1,500.00	1,499.84	1,535.49	1,535.34	5.11	3.43	-21.18	-3,977.37	4,703.74	6,154.55	6,146.02	8.53	721.601		
1,600.00	1,599.45	1,647.19	1,647.00	5.44	3.83	-21.27	-3,977.15	4,700.90	6,144.35	6,135.09	9.26	663.272		
1,700.00	1,698.70	1,728.92	1,728.71	5.79	4.12	-21.39	-3,976.97	4,698.89	6,130.99	6,121.10	9.89	619.639		
1,800.00	1,797.47	1,802.87	1,802.64	6.15	4.39	-21.54	-3,976.82	4,697.39	6,114.76	6,104.25	10.50	582.302		
1,900.00	1,895.62	1,862.23	1,862.00	6.53	4.60	-21.72	-3,976.74	4,696.56	6,095.85	6,084.79	11.06	551.219		
1,912.93	1,908.27	1,867.43	1,867.19	6.58	4.62	-21.74	-3,976.73	4,696.52	6,093.22	6,082.09	11.12	547.732		
2,000.00	1,993.35	1,909.00	1,908.76	6.93	4.76	-21.78	-3,976.57	4,696.50	6,075.73	6,064.16	11.57	525.195		
2,100.00	2,091.07	1,969.59	1,969.35	7.34	4.96	-21.83	-3,976.22	4,697.09	6,056.31	6,044.19	12.12	499.748		
2,200.00	2,188.79	2,073.48	2,073.22	7.77	5.30	-21.93	-3,975.05	4,698.84	6,037.11	6,024.29	12.82	471.010		
2,300.00	2,286.51	2,174.79	2,174.47	8.20	5.64	-22.04	-3,972.81	4,701.38	6,017.87	6,004.35	13.52	445.201		
2,400.00	2,384.23	2,260.01	2,259.61	8.65	5.92	-22.14	-3,970.24	4,704.15	5,998.70	5,984.53	14.17	423.305		
2,500.00	2,481.95	2,372.10	2,371.57	9.10	6.30	-22.28	-3,966.59	4,708.11	5,979.63	5,964.71	14.92	400.741		
2,600.00	2,579.67	2,463.89	2,463.25	9.56	6.62	-22.39	-3,963.58	4,711.21	5,960.45	5,944.84	15.61	381.839		
2,700.00	2,677.39	2,557.22	2,556.47	10.02	6.94	-22.51	-3,960.30	4,714.67	5,941.40	5,925.09	16.31	364.309		
2,800.00	2,775.11	2,642.25	2,641.37	10.49	7.23	-22.63	-3,957.23	4,718.08	5,922.53	5,905.55	16.98	348.714		
2,900.00	2,872.83	2,750.57	2,749.56	10.96	7.61	-22.76	-3,953.84	4,721.96	5,903.68	5,885.93	17.74	332.755		
3,000.00	2,970.55	2,871.59	2,870.52	11.44	8.03	-22.90	-3,951.21	4,724.77	5,884.47	5,865.92	18.55	317.307		
3,100.00	3,068.27	2,979.11	2,978.02	11.92	8.41	-23.01	-3,949.87	4,725.98	5,864.93	5,845.63	19.30	303.812		
3,200.00	3,165.99	3,059.39	3,058.29	12.40	8.69	-23.09	-3,948.93	4,727.14	5,845.69	5,825.72	19.97	292.655		
3,300.00	3,263.71	3,169.69	3,168.53	12.88	9.07	-23.22	-3,946.20	4,729.68	5,826.35	5,805.60	20.75	280.786		
3,400.00	3,361.43	3,281.02	3,279.70	13.37	9.47	-23.37	-3,941.77	4,733.43	5,806.94	5,785.40	21.53	269.662		
3,500.00	3,459.15	3,373.72	3,372.23	13.86	9.80	-23.50	-3,937.30	4,736.89	5,787.34	5,765.08	22.26	260.003		
3,600.00	3,556.87	3,452.00	3,450.36	14.35	10.08	-23.62	-3,933.59	4,740.04	5,768.03	5,745.09	22.94	251.478		
3,700.00	3,654.59	3,530.47	3,528.70	14.84	10.36	-23.73	-3,930.20	4,743.28	5,749.09	5,725.48	23.62	243.432		
3,800.00	3,752.31	3,630.47	3,628.52	15.34	10.72	-23.88	-3,926.19	4,747.48	5,730.43	5,706.06	24.37	235.121		
3,900.00	3,850.03	3,756.28	3,754.09	15.83	11.17	-24.07	-3,920.32	4,752.60	5,711.27	5,686.05	25.22	226.470		
4,000.00	3,947.75	3,898.88	3,896.39	16.33	11.69	-24.29	-3,912.95	4,758.13	5,691.79	5,665.66	26.12	217.876		
4,100.00	4,045.47	3,972.74	3,970.10	16.83	11.95	-24.40	-3,909.18	4,760.78	5,672.10	5,645.30	26.80	211.660		
4,200.00	4,143.19	4,035.24	4,032.48	17.32	12.18	-24.50	-3,906.16	4,763.21	5,652.86	5,625.42	27.43	206.046		
4,300.00	4,240.91	4,120.32	4,117.42	17.82	12.49	-24.63	-3,902.70	4,766.64	5,634.20	5,606.05	28.15	200.155		
4,400.00	4,338.63	4,208.76	4,205.70	18.32	12.81	-24.76	-3,898.79	4,770.33	5,615.50	5,586.62	28.88	194.465		
4,500.00	4,436.35	4,277.91	4,274.71	18.82	13.06	-24.87	-3,895.76	4,773.64	5,597.31	5,567.77	29.54	189.479		
4,600.00	4,534.07	4,383.91	4,380.49	19.33	13.44	-25.04	-3,891.32	4,778.79	5,579.35	5,549.02	30.33	183.947		
4,700.00	4,631.79	4,496.99	4,493.30	19.83	13.86	-25.23	-3,885.84	4,784.28	5,561.04	5,529.89	31.15	178.529		
4,800.00	4,729.51	4,601.64	4,597.66	20.33	14.24	-25.41	-3,880.34	4,789.72	5,542.81	5,510.87	31.94	173.535		
4,900.00	4,827.23	4,776.75	4,772.56	20.83	14.87	-25.66	-3,873.93	4,794.72	5,523.68	5,490.72	32.96	167.589		
5,000.00	4,924.95	4,868.26	4,864.00	21.34	15.20	-25.79	-3,870.77	4,796.41	5,503.94	5,470.24	33.70	163.315		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 1154-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,939.31	4,934.97	21.84	15.46	-25.89	-3,867.99	4,798.29	5,484.59	5,450.21	34.38	159.532		
5,200.00	5,120.39	5,013.21	5,008.76	22.35	15.73	-26.01	-3,864.89	4,800.82	5,465.72	5,430.66	35.07	155.856		
5,300.00	5,218.11	5,115.35	5,110.69	22.85	16.10	-26.18	-3,859.98	4,805.14	5,447.20	5,411.34	35.86	151.920		
5,400.00	5,315.83	5,211.39	5,206.51	23.36	16.46	-26.35	-3,854.93	4,809.22	5,428.42	5,391.79	36.62	148.218		
5,500.00	5,413.55	5,281.57	5,276.55	23.86	16.71	-26.47	-3,851.42	4,812.24	5,410.01	5,372.70	37.31	145.010		
5,600.00	5,511.27	5,344.16	5,339.01	24.37	16.94	-26.57	-3,848.67	4,815.19	5,392.24	5,354.27	37.97	142.029		
5,700.00	5,608.99	5,429.55	5,424.21	24.88	17.26	-26.72	-3,845.15	4,819.51	5,374.92	5,336.22	38.70	138.883		
5,800.00	5,706.71	5,541.80	5,536.20	25.38	17.67	-26.91	-3,840.18	4,825.43	5,357.66	5,318.13	39.53	135.537		
5,900.00	5,804.43	5,665.97	5,660.05	25.89	18.13	-27.14	-3,833.95	4,831.81	5,340.01	5,299.61	40.40	132.180		
6,000.00	5,902.15	5,771.80	5,765.67	26.40	18.52	-27.32	-3,829.22	4,836.40	5,322.06	5,280.85	41.21	129.154		
6,100.00	5,999.87	5,866.26	5,879.89	26.91	18.94	-27.52	-3,823.87	4,841.33	5,304.04	5,262.00	42.04	126.156		
6,200.00	6,097.59	5,988.58	5,982.01	27.42	19.31	-27.70	-3,818.88	4,845.46	5,285.73	5,242.88	42.84	123.378		
6,300.00	6,195.30	6,074.48	6,067.73	27.92	19.63	-27.86	-3,814.65	4,849.05	5,267.55	5,223.97	43.59	120.850		
6,400.00	6,293.02	6,155.75	6,148.84	28.43	19.93	-28.00	-3,810.84	4,852.58	5,249.69	5,205.37	44.32	118.453		
6,500.00	6,390.74	6,267.77	6,260.67	28.94	20.34	-28.20	-3,806.25	4,857.22	5,232.05	5,186.90	45.15	115.883		
6,600.00	6,488.46	6,390.83	6,383.61	29.45	20.78	-28.39	-3,802.36	4,860.61	5,213.77	5,167.76	46.01	113.322		
6,638.14	6,525.73	6,423.10	6,415.88	29.64	20.90	-28.44	-3,801.76	4,861.18	5,206.79	5,160.50	46.29	112.487		
6,700.00	6,586.32	6,489.22	6,481.99	29.95	21.13	-28.42	-3,801.15	4,862.00	5,196.09	5,149.31	46.78	111.077		
6,800.00	6,684.79	6,603.48	6,596.24	30.42	21.54	-28.39	-3,800.16	4,862.89	5,180.89	5,133.31	47.58	108.886		
6,900.00	6,783.81	6,691.60	6,684.36	30.85	21.85	-28.35	-3,799.72	4,863.36	5,168.76	5,120.47	48.29	107.042		
7,000.00	6,883.25	6,779.85	6,772.60	31.24	22.16	-28.32	-3,799.55	4,863.96	5,159.97	5,111.00	48.98	105.358		
7,100.00	6,983.00	6,878.35	6,871.10	31.60	22.50	-28.31	-3,799.35	4,864.74	5,154.35	5,104.68	49.68	103.758		
7,200.00	7,082.93	6,977.86	6,970.61	31.92	22.85	-28.31	-3,799.27	4,865.46	5,151.80	5,101.44	50.36	102.294		
7,232.11	7,115.04	7,009.27	7,002.02	32.01	22.95	-28.31	-3,799.27	4,865.67	5,151.64	5,101.07	50.57	101.866		
7,251.07	7,134.00	7,027.82	7,020.57	32.06	23.02	122.99	-3,799.27	4,865.80	5,151.70	5,101.00	50.70	101.618		
7,300.00	7,182.93	7,075.47	7,068.21	32.19	23.18	122.98	-3,799.29	4,866.13	5,151.99	5,100.99	51.01	101.005		
7,351.07	7,234.00	7,125.21	7,117.95	32.32	23.36	122.98	-3,799.33	4,866.48	5,152.32	5,100.98	51.33	100.373		
7,400.00	7,282.87	7,163.91	7,156.66	32.47	23.49	-56.76	-3,799.37	4,866.80	5,151.53	5,099.90	51.64	99.765		
7,450.00	7,332.44	7,203.91	7,196.65	32.67	23.63	-57.07	-3,799.42	4,867.21	5,148.47	5,096.49	51.98	99.041		
7,500.00	7,381.26	7,247.47	7,240.21	32.90	23.78	-57.61	-3,799.50	4,867.73	5,143.13	5,090.76	52.37	98.215		
7,550.00	7,428.96	7,291.91	7,284.64	33.18	23.93	-58.39	-3,799.69	4,868.22	5,135.53	5,082.75	52.78	97.307		
7,600.00	7,475.17	7,328.62	7,321.35	33.48	24.06	-59.38	-3,799.92	4,868.61	5,125.77	5,072.58	53.19	96.370		
7,650.00	7,519.55	7,359.03	7,351.76	33.82	24.16	-60.56	-3,800.16	4,869.01	5,114.02	5,060.41	53.60	95.403		
7,700.00	7,561.76	7,388.00	7,380.72	34.20	24.26	-61.96	-3,800.40	4,869.47	5,100.40	5,046.36	54.04	94.386		
7,750.00	7,601.47	7,416.73	7,409.45	34.60	24.36	-63.58	-3,800.68	4,869.99	5,085.04	5,030.55	54.49	93.316		
7,800.00	7,638.39	7,446.08	7,438.79	35.04	24.46	-65.43	-3,801.01	4,870.56	5,068.06	5,013.09	54.97	92.196		
7,850.00	7,672.23	7,473.15	7,465.85	35.50	24.55	-67.47	-3,801.37	4,871.09	5,049.61	4,994.15	55.46	91.046		
7,900.00	7,702.74	7,497.73	7,490.42	35.99	24.64	-69.69	-3,801.74	4,871.58	5,029.88	4,973.91	55.97	89.871		
7,950.00	7,729.67	7,520.47	7,513.15	36.50	24.72	-72.08	-3,802.12	4,872.05	5,009.04	4,952.55	56.49	88.677		
8,000.00	7,752.84	7,540.42	7,533.10	37.04	24.78	-74.61	-3,802.49	4,872.46	4,987.28	4,930.27	57.02	87.472		
8,050.00	7,772.06	7,557.23	7,549.90	37.60	24.84	-77.25	-3,802.82	4,872.81	4,964.81	4,907.26	57.55	86.263		
8,100.00	7,787.18	7,570.73	7,563.39	38.17	24.89	-79.95	-3,803.11	4,873.08	4,941.82	4,883.72	58.10	85.058		
8,150.00	7,798.10	7,580.80	7,573.46	38.76	24.92	-82.68	-3,803.33	4,873.29	4,918.53	4,859.88	58.65	83.864		
8,200.00	7,804.72	7,587.32	7,579.98	39.36	24.94	-85.40	-3,803.48	4,873.43	4,895.12	4,835.92	59.20	82.688		
8,251.15	7,807.00	7,590.25	7,582.90	39.97	24.95	-88.13	-3,803.55	4,873.49	4,871.26	4,811.50	59.76	81.511		
8,300.00	7,807.00	7,591.21	7,583.87	40.56	24.96	-88.14	-3,803.57	4,873.51	4,848.77	4,788.46	60.31	80.400		
8,400.00	7,807.00	7,593.21	7,585.86	41.80	24.96	-88.17	-3,803.62	4,873.55	4,803.96	4,742.46	61.49	78.123		
8,500.00	7,807.00	7,595.23	7,587.88	43.08	24.97	-88.19	-3,803.66	4,873.59	4,760.82	4,698.06	62.76	75.857		
8,600.00	7,806.99	7,597.46	7,590.11	44.40	24.98	-88.22	-3,803.72	4,873.64	4,719.41	4,655.30	64.11	73.617		
8,700.00	7,806.99	7,600.86	7,593.51	45.74	24.99	-88.27	-3,803.80	4,873.71	4,679.76	4,614.23	65.53	71.411		
8,800.00	7,806.99	7,604.16	7,596.81	47.11	25.00	-88.31	-3,803.87	4,873.77	4,641.94	4,574.91	67.03	69.256		
8,900.00	7,806.99	7,607.36	7,600.01	48.51	25.01	-88.35	-3,803.94	4,873.84	4,605.97	4,537.38	68.58	67.161		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
9,000.00	7,806.99	7,610.47	7,603.12	49.93	25.02	-88.39	-3,804.01	4,873.90	4,571.90	4,501.70	70.19	65.132		
9,100.00	7,806.99	7,613.49	7,606.13	51.38	25.03	-88.43	-3,804.08	4,873.96	4,539.78	4,467.92	71.86	63.176		
9,200.00	7,806.99	7,616.42	7,609.06	52.84	25.04	-88.47	-3,804.14	4,874.02	4,509.65	4,436.07	73.57	61.296		
9,300.00	7,806.98	7,619.27	7,611.91	54.32	25.05	-88.51	-3,804.21	4,874.08	4,481.54	4,406.22	75.32	59.497		
9,400.00	7,806.98	7,622.04	7,614.68	55.82	25.06	-88.55	-3,804.26	4,874.13	4,455.50	4,378.39	77.11	57.780		
9,500.00	7,806.98	7,624.74	7,617.38	57.34	25.07	-88.58	-3,804.32	4,874.19	4,431.57	4,352.64	78.93	56.145		
9,600.00	7,806.98	7,627.36	7,620.00	58.87	25.08	-88.62	-3,804.37	4,874.24	4,409.77	4,328.99	80.77	54.594		
9,700.00	7,806.98	7,629.92	7,622.56	60.41	25.09	-88.65	-3,804.43	4,874.29	4,390.14	4,307.50	82.64	53.126		
9,800.00	7,806.98	7,632.40	7,625.04	61.96	25.10	-88.69	-3,804.48	4,874.34	4,372.71	4,288.19	84.51	51.741		
9,900.00	7,806.97	7,634.83	7,627.46	63.53	25.10	-88.72	-3,804.52	4,874.39	4,357.50	4,271.10	86.40	50.435		
10,000.00	7,806.97	7,637.19	7,629.82	65.10	25.11	-88.75	-3,804.57	4,874.43	4,344.54	4,256.25	88.29	49.210		
10,100.00	7,806.97	7,639.49	7,632.13	66.69	25.12	-88.78	-3,804.61	4,874.48	4,333.85	4,243.67	90.17	48.061		
10,200.00	7,806.97	7,641.74	7,634.37	68.29	25.13	-88.81	-3,804.66	4,874.52	4,325.44	4,233.39	92.06	46.987		
10,300.00	7,806.97	7,643.93	7,636.56	69.89	25.14	-88.84	-3,804.70	4,874.57	4,319.34	4,225.41	93.93	45.986		
10,400.00	7,806.97	7,646.06	7,638.69	71.50	25.14	-88.87	-3,804.74	4,874.61	4,315.54	4,219.75	95.78	45.055		
10,500.00	7,806.97	7,648.15	7,640.78	73.12	25.15	-88.90	-3,804.78	4,874.65	4,314.05	4,216.43	97.62	44.193		
10,514.09	7,806.97	7,648.44	7,641.07	73.35	25.15	-88.90	-3,804.78	4,874.65	4,314.03	4,216.15	97.88	44.077 CC		
10,600.00	7,806.96	7,650.18	7,642.81	74.75	25.16	-88.92	-3,804.81	4,874.69	4,314.88	4,215.45	99.43	43.396 ES		
10,700.00	7,806.96	7,652.17	7,644.80	76.38	25.16	-88.95	-3,804.85	4,874.73	4,318.03	4,216.82	101.22	42.662		
10,800.00	7,806.96	7,654.11	7,646.74	78.02	25.17	-88.97	-3,804.88	4,874.76	4,323.49	4,220.52	102.97	41.989		
10,900.00	7,806.96	7,656.01	7,648.64	79.66	25.18	-89.00	-3,804.92	4,874.80	4,331.25	4,226.56	104.69	41.373		
11,000.00	7,806.96	7,657.87	7,650.49	81.31	25.18	-89.02	-3,804.95	4,874.83	4,341.30	4,234.93	106.37	40.814		
11,100.00	7,806.96	7,659.68	7,652.31	82.97	25.19	-89.05	-3,804.98	4,874.87	4,353.62	4,245.61	108.01	40.308		
11,200.00	7,806.95	7,661.45	7,654.08	84.63	25.20	-89.07	-3,805.01	4,874.90	4,368.20	4,258.59	109.61	39.854		
11,300.00	7,806.95	7,663.19	7,655.81	86.29	25.20	-89.09	-3,805.04	4,874.94	4,385.01	4,273.85	111.16	39.449		
11,400.00	7,806.95	7,664.88	7,657.51	87.96	25.21	-89.12	-3,805.07	4,874.97	4,404.02	4,291.36	112.66	39.091		
11,500.00	7,806.95	7,666.54	7,659.17	89.64	25.21	-89.14	-3,805.09	4,875.00	4,425.22	4,311.10	114.12	38.777		
11,600.00	7,806.95	7,668.17	7,660.79	91.31	25.22	-89.16	-3,805.12	4,875.03	4,448.56	4,333.03	115.53	38.507		
11,700.00	7,806.95	7,669.76	7,662.39	92.99	25.22	-89.18	-3,805.14	4,875.06	4,474.01	4,357.13	116.88	38.278		
11,800.00	7,806.95	7,671.32	7,663.94	94.68	25.23	-89.20	-3,805.17	4,875.09	4,501.54	4,383.36	118.19	38.089		
11,900.00	7,806.94	7,672.85	7,665.47	96.36	25.23	-89.22	-3,805.19	4,875.12	4,531.11	4,411.67	119.44	37.937		
12,000.00	7,806.94	7,674.34	7,666.96	98.05	25.24	-89.24	-3,805.22	4,875.15	4,562.68	4,442.04	120.64	37.821		
12,100.00	7,806.94	7,675.81	7,668.43	99.74	25.24	-89.26	-3,805.24	4,875.17	4,596.21	4,474.42	121.79	37.739		
12,200.00	7,806.94	7,677.24	7,669.86	101.44	25.25	-89.28	-3,805.26	4,875.20	4,631.66	4,508.77	122.89	37.691		
12,300.00	7,806.94	7,678.65	7,671.27	103.14	25.25	-89.30	-3,805.28	4,875.23	4,668.98	4,545.04	123.93	37.674 SF		
12,400.00	7,806.94	7,680.03	7,672.65	104.84	25.26	-89.32	-3,805.30	4,875.25	4,708.12	4,583.20	124.93	37.687		
12,500.00	7,806.93	7,681.38	7,674.01	106.54	25.26	-89.34	-3,805.32	4,875.28	4,749.05	4,623.18	125.87	37.729		
12,600.00	7,806.93	7,682.71	7,675.33	108.25	25.27	-89.35	-3,805.34	4,875.30	4,791.72	4,664.95	126.77	37.798		
12,700.00	7,806.93	7,684.01	7,676.63	109.95	25.27	-89.37	-3,805.36	4,875.32	4,836.08	4,708.45	127.62	37.894		
12,800.00	7,806.93	7,685.29	7,677.91	111.66	25.28	-89.39	-3,805.38	4,875.35	4,882.08	4,753.65	128.43	38.015		
12,900.00	7,806.93	7,686.55	7,679.17	113.37	25.28	-89.41	-3,805.40	4,875.37	4,929.68	4,800.50	129.19	38.160		
13,000.00	7,806.93	7,687.78	7,680.40	115.09	25.28	-89.42	-3,805.41	4,875.39	4,978.84	4,848.94	129.90	38.328		
13,100.00	7,806.93	7,688.99	7,681.61	116.80	25.29	-89.44	-3,805.43	4,875.42	5,029.50	4,898.92	130.57	38.518		
13,200.00	7,806.92	7,690.17	7,682.79	118.52	25.29	-89.45	-3,805.45	4,875.44	5,081.63	4,950.42	131.21	38.730		
13,300.00	7,806.92	7,691.34	7,683.96	120.24	25.30	-89.47	-3,805.46	4,875.46	5,135.17	5,003.37	131.80	38.961		
13,400.00	7,806.92	7,692.57	7,685.19	121.96	25.30	-89.49	-3,805.48	4,875.48	5,190.09	5,057.73	132.36	39.212		
13,500.00	7,806.92	7,693.92	7,686.54	123.68	25.31	-89.50	-3,805.50	4,875.51	5,246.34	5,113.45	132.88	39.481		
13,600.00	7,806.92	7,695.27	7,687.88	125.40	25.31	-89.52	-3,805.52	4,875.53	5,303.87	5,170.51	133.37	39.768		
13,700.00	7,806.92	7,696.60	7,689.22	127.12	25.32	-89.54	-3,805.53	4,875.55	5,362.66	5,228.84	133.82	40.073		
13,800.00	7,806.91	7,697.94	7,690.55	128.85	25.32	-89.56	-3,805.55	4,875.58	5,422.65	5,288.40	134.25	40.393		
13,900.00	7,806.91	7,699.27	7,691.88	130.58	25.32	-89.57	-3,805.57	4,875.60	5,483.81	5,349.17	134.64	40.729		
14,000.00	7,806.91	7,700.59	7,693.21	132.30	25.33	-89.59	-3,805.59	4,875.63	5,546.10	5,411.09	135.01	41.081		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
14,100.00	7,806.91	7,701.91	7,694.53	134.03	25.33	-89.61	-3,805.61	4,875.65	5,609.47	5,474.13	135.34	41.446		
14,200.00	7,806.91	7,703.23	7,695.84	135.76	25.34	-89.63	-3,805.62	4,875.67	5,673.91	5,538.25	135.66	41.826		
14,300.00	7,806.91	7,704.54	7,697.15	137.50	25.34	-89.64	-3,805.64	4,875.70	5,739.36	5,603.41	135.94	42.219		
14,400.00	7,806.91	7,705.84	7,698.46	139.23	25.35	-89.66	-3,805.66	4,875.72	5,805.79	5,669.58	136.21	42.624		
14,500.00	7,806.90	7,707.14	7,699.76	140.96	25.35	-89.68	-3,805.68	4,875.75	5,873.18	5,736.73	136.45	43.042		
14,600.00	7,806.90	7,708.44	7,701.06	142.70	25.36	-89.70	-3,805.69	4,875.77	5,941.48	5,804.81	136.68	43.471		
14,700.00	7,806.90	7,709.73	7,702.35	144.43	25.36	-89.71	-3,805.71	4,875.79	6,010.68	5,873.80	136.88	43.912		
14,800.00	7,806.90	7,711.02	7,703.64	146.17	25.36	-89.73	-3,805.73	4,875.82	6,080.73	5,943.66	137.06	44.364		
14,900.00	7,806.90	7,712.31	7,704.92	147.91	25.37	-89.75	-3,805.74	4,875.84	6,151.60	6,014.37	137.23	44.826		
15,000.00	7,806.90	7,713.58	7,706.20	149.64	25.37	-89.76	-3,805.76	4,875.86	6,223.28	6,085.90	137.38	45.299		
15,100.00	7,806.89	7,714.86	7,707.47	151.38	25.38	-89.78	-3,805.78	4,875.88	6,295.73	6,158.21	137.52	45.780		
15,200.00	7,806.89	7,716.13	7,708.74	153.12	25.38	-89.80	-3,805.79	4,875.91	6,368.92	6,231.28	137.64	46.272		
15,300.00	7,806.89	7,717.40	7,710.01	154.86	25.39	-89.81	-3,805.81	4,875.93	6,442.84	6,305.09	137.75	46.772		
15,400.00	7,806.89	7,718.66	7,711.27	156.60	25.39	-89.83	-3,805.83	4,875.95	6,517.45	6,379.60	137.85	47.281		
15,500.00	7,806.89	7,719.91	7,712.53	158.35	25.40	-89.85	-3,805.84	4,875.97	6,592.73	6,454.80	137.93	47.798		
15,600.00	7,806.89	7,721.17	7,713.78	160.09	25.40	-89.86	-3,805.86	4,876.00	6,668.66	6,530.66	138.00	48.323		
15,700.00	7,806.89	7,722.42	7,715.03	161.83	25.40	-89.88	-3,805.88	4,876.02	6,745.22	6,607.16	138.07	48.855		
15,800.00	7,806.88	7,723.66	7,716.27	163.57	25.41	-89.90	-3,805.89	4,876.04	6,822.39	6,684.27	138.12	49.395		
15,900.00	7,806.88	7,724.90	7,717.51	165.32	25.41	-89.91	-3,805.91	4,876.06	6,900.14	6,761.98	138.16	49.942		
16,000.00	7,806.88	7,726.14	7,718.75	167.06	25.42	-89.93	-3,805.92	4,876.09	6,978.46	6,840.26	138.20	50.497		
16,100.00	7,806.88	7,727.37	7,719.98	168.81	25.42	-89.95	-3,805.94	4,876.11	7,057.33	6,919.10	138.22	51.057		
16,200.00	7,806.88	7,728.60	7,721.21	170.56	25.42	-89.96	-3,805.96	4,876.13	7,136.72	6,998.48	138.24	51.624		
16,300.00	7,806.88	7,729.82	7,722.43	172.30	25.43	-89.98	-3,805.97	4,876.15	7,216.63	7,078.37	138.26	52.197		
16,400.00	7,806.87	7,731.04	7,723.65	174.05	25.43	-90.00	-3,805.99	4,876.17	7,297.03	7,158.77	138.26	52.777		
16,500.00	7,806.87	7,732.26	7,724.86	175.80	25.44	-90.01	-3,806.00	4,876.20	7,377.91	7,239.65	138.26	53.361		
16,600.00	7,806.87	7,733.47	7,726.07	177.55	25.44	-90.03	-3,806.02	4,876.22	7,459.26	7,321.00	138.26	53.952		
16,700.00	7,806.87	7,734.67	7,727.28	179.30	25.45	-90.04	-3,806.03	4,876.24	7,541.05	7,402.81	138.25	54.547		
16,800.00	7,806.87	7,735.88	7,728.48	181.04	25.45	-90.06	-3,806.05	4,876.26	7,623.28	7,485.05	138.23	55.148		
16,900.00	7,806.87	7,737.08	7,729.68	182.79	25.45	-90.08	-3,806.07	4,876.28	7,705.93	7,567.72	138.21	55.754		
17,000.00	7,806.87	7,738.27	7,730.88	184.54	25.46	-90.09	-3,806.08	4,876.30	7,788.98	7,650.79	138.19	56.365		
17,100.00	7,806.86	7,739.46	7,732.07	186.30	25.46	-90.11	-3,806.10	4,876.32	7,872.43	7,734.27	138.16	56.980		
17,200.00	7,806.86	7,740.65	7,733.26	188.05	25.47	-90.12	-3,806.11	4,876.34	7,956.26	7,818.13	138.13	57.599		
17,300.00	7,806.86	7,741.83	7,734.44	189.80	25.47	-90.14	-3,806.13	4,876.37	8,040.46	7,902.36	138.10	58.223		
17,400.00	7,806.86	7,743.01	7,735.62	191.55	25.47	-90.15	-3,806.14	4,876.39	8,125.02	7,986.96	138.06	58.851		
17,500.00	7,806.86	7,744.19	7,736.79	193.30	25.48	-90.17	-3,806.16	4,876.41	8,209.92	8,071.90	138.02	59.483		
17,600.00	7,806.86	7,745.36	7,737.97	195.06	25.48	-90.19	-3,806.17	4,876.43	8,295.16	8,157.18	137.98	60.119		
17,700.00	7,806.85	7,746.53	7,739.13	196.81	25.49	-90.20	-3,806.19	4,876.45	8,380.73	8,242.79	137.93	60.759		
17,800.00	7,806.85	7,747.69	7,740.30	198.56	25.49	-90.22	-3,806.20	4,876.47	8,466.61	8,328.72	137.89	61.402		
17,898.35	7,807.00	7,748.97	7,741.57	200.29	25.49	-90.23	-3,806.22	4,876.49	8,551.38	8,413.53	137.84	62.038		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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	130.15	-3,993.02	4,733.75	6,193.52					
100.00	100.00	0.00	0.00	0.13	0.00	130.15	-3,993.02	4,733.75	6,192.97	6,192.83	0.13	N/A		
200.00	200.00	61.00	61.00	0.49	0.09	130.15	-3,993.26	4,734.03	6,193.56	6,192.99	0.58	N/A		
300.00	300.00	93.80	93.79	0.85	0.20	130.15	-3,993.71	4,734.36	6,195.07	6,194.01	1.05	5,883.939		
400.00	400.00	187.92	187.89	1.21	0.54	130.16	-3,995.46	4,735.19	6,196.95	6,195.20	1.75	3,544.482		
500.00	500.00	254.95	254.89	1.57	0.78	130.17	-3,997.70	4,735.26	6,199.22	6,196.87	2.35	2,640.803		
600.00	600.00	324.00	323.84	1.93	1.04	130.20	-4,001.18	4,734.86	6,202.03	6,199.08	2.96	2,098.070		
700.00	700.00	360.44	360.20	2.29	1.17	130.22	-4,003.57	4,734.56	6,205.64	6,202.20	3.45	1,799.807		
800.00	800.00	434.53	434.05	2.64	1.45	130.27	-4,009.47	4,733.63	6,209.88	6,205.80	4.08	1,521.530		
900.00	900.00	489.37	488.65	3.00	1.66	130.31	-4,014.55	4,732.79	6,214.75	6,210.10	4.65	1,337.597		
1,000.00	1,000.00	523.59	522.71	3.36	1.79	130.33	-4,017.91	4,732.50	6,220.52	6,215.39	5.13	1,211.958		
1,100.00	1,100.00	556.30	555.22	3.72	1.92	130.36	-4,021.46	4,732.43	6,227.39	6,221.78	5.61	1,109.348		
1,200.00	1,200.00	585.02	583.74	4.08	2.04	130.38	-4,024.82	4,732.55	6,235.34	6,229.26	6.08	1,025.739		
1,300.00	1,300.00	614.94	613.41	4.44	2.16	130.40	-4,028.66	4,732.86	6,244.45	6,237.90	6.55	953.643		
1,400.00	1,399.98	659.00	657.06	4.78	2.34	-20.80	-4,034.66	4,733.64	6,252.97	6,245.92	7.05	886.388		
1,500.00	1,499.84	706.36	703.91	5.11	2.54	-20.72	-4,041.50	4,734.55	6,259.03	6,251.46	7.56	827.755		
1,600.00	1,599.45	736.86	734.03	5.44	2.67	-20.67	-4,046.24	4,735.25	6,262.80	6,254.80	8.01	782.297		
1,700.00	1,698.70	772.76	769.43	5.79	2.83	-20.64	-4,052.12	4,736.37	6,264.43	6,255.95	8.48	738.770		
1,800.00	1,797.47	813.00	809.02	6.15	3.01	-20.62	-4,059.22	4,737.63	6,263.73	6,254.75	8.97	698.001		
1,900.00	1,895.62	877.00	871.83	6.53	3.30	-20.61	-4,071.33	4,739.52	6,260.50	6,250.92	9.58	653.425		
1,912.93	1,908.27	877.00	871.83	6.58	3.30	-20.62	-4,071.33	4,739.52	6,259.90	6,250.27	9.63	650.377		
2,000.00	1,993.35	930.60	924.35	6.93	3.56	-20.59	-4,081.89	4,741.25	6,255.94	6,245.78	10.15	616.096		
2,100.00	2,091.07	1,009.15	1,001.24	7.34	3.93	-20.55	-4,097.61	4,744.35	6,252.06	6,241.22	10.84	576.789		
2,200.00	2,188.79	1,154.31	1,143.21	7.77	4.64	-20.47	-4,127.68	4,748.29	6,247.75	6,235.92	11.84	527.893		
2,300.00	2,286.51	1,224.32	1,211.57	8.20	4.99	-20.42	-4,142.69	4,749.68	6,243.41	6,230.90	12.51	499.160		
2,400.00	2,384.23	1,406.13	1,389.06	8.65	5.91	-20.28	-4,182.01	4,751.96	6,238.67	6,224.96	13.70	455.333		
2,500.00	2,481.95	1,548.14	1,527.84	9.10	6.62	-20.17	-4,212.14	4,752.41	6,232.96	6,218.24	14.72	423.486		
2,600.00	2,579.67	1,598.00	1,576.53	9.56	6.87	-20.13	-4,222.89	4,752.49	6,227.33	6,212.02	15.31	406.618		
2,700.00	2,677.39	1,629.00	1,606.72	10.02	7.03	-20.10	-4,229.91	4,752.66	6,222.67	6,206.84	15.83	393.162		
2,800.00	2,775.11	1,629.00	1,606.72	10.49	7.03	-20.10	-4,229.91	4,752.66	6,219.31	6,203.12	16.19	384.071		
2,900.00	2,872.83	1,661.00	1,637.76	10.96	7.20	-20.08	-4,237.67	4,753.28	6,217.19	6,200.47	16.71	372.010		
3,000.00	2,970.55	1,770.79	1,744.14	11.44	7.80	-19.98	-4,264.64	4,756.10	6,215.48	6,197.87	17.61	353.006		
3,100.00	3,068.27	1,925.12	1,894.34	11.92	8.61	-19.88	-4,299.55	4,762.32	6,213.62	6,194.92	18.70	332.311		
3,200.00	3,165.99	2,024.47	1,990.97	12.40	9.13	-19.81	-4,322.39	4,765.48	6,211.32	6,191.79	19.53	318.042		
3,300.00	3,263.71	2,153.03	2,116.54	12.88	9.79	-19.74	-4,349.37	4,771.08	6,208.51	6,188.02	20.49	303.046		
3,400.00	3,361.43	2,350.65	2,309.84	13.37	10.78	-19.63	-4,389.87	4,777.85	6,204.59	6,182.84	21.75	285.264		
3,500.00	3,459.15	2,510.98	2,467.06	13.86	11.57	-19.55	-4,420.99	4,782.39	6,199.58	6,176.74	22.84	271.446		
3,600.00	3,556.87	2,560.86	2,515.93	14.35	11.82	-19.52	-4,430.89	4,783.55	6,194.53	6,171.09	23.44	264.241		
3,700.00	3,654.59	2,625.91	2,579.55	14.84	12.15	-19.48	-4,444.38	4,785.20	6,190.21	6,166.10	24.12	256.686		
3,800.00	3,752.31	2,697.51	2,649.55	15.34	12.51	-19.44	-4,459.22	4,787.41	6,186.34	6,161.52	24.82	249.265		
3,900.00	3,850.03	2,772.00	2,722.41	15.83	12.89	-19.40	-4,474.43	4,790.51	6,183.02	6,157.49	25.53	242.180		
4,000.00	3,947.75	2,916.42	2,863.87	16.33	13.61	-19.33	-4,502.96	4,796.29	6,179.03	6,152.48	26.55	232.746		
4,100.00	4,045.47	3,064.24	3,008.68	16.83	14.34	-19.27	-4,532.07	4,802.08	6,175.24	6,147.66	27.58	223.908		
4,200.00	4,143.19	3,176.41	3,118.49	17.32	14.91	-19.20	-4,554.77	4,804.47	6,170.32	6,141.86	28.47	216.762		
4,300.00	4,240.91	3,248.00	3,188.44	17.82	15.27	-19.15	-4,570.00	4,805.62	6,165.72	6,136.55	29.18	211.320		
4,400.00	4,338.63	4,400.00	3,340.64	18.32	21.03	-19.04	-4,602.18	4,808.48	6,160.98	6,126.31	34.67	177.721		
4,500.00	4,436.35	3,504.29	3,439.27	18.82	16.56	-18.98	-4,622.37	4,809.87	6,155.42	6,124.32	31.10	197.927		
4,600.00	4,534.07	3,590.09	3,523.25	19.33	16.99	-18.92	-4,639.95	4,811.21	6,150.29	6,118.42	31.87	192.972		
4,700.00	4,631.79	3,661.33	3,592.98	19.83	17.35	-18.87	-4,654.49	4,812.47	6,145.32	6,112.74	32.58	188.638		
4,800.00	4,729.51	3,724.00	3,654.29	20.33	17.67	-18.84	-4,667.31	4,814.26	6,141.09	6,107.85	33.24	184.730		
4,900.00	4,827.23	4,072.65	3,997.29	20.83	19.32	-18.68	-4,729.02	4,822.20	6,133.47	6,098.36	35.10	174.739		
5,000.00	4,924.95	4,105.00	4,029.17	21.34	19.46	-18.67	-4,734.42	4,822.68	6,125.87	6,090.23	35.64	171.906		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
5,100.00	5,022.67	4,154.76	4,078.17	21.84	19.70	-18.65	-4,743.04	4,823.79	6,119.18	6,082.94	36.24	168.852		
5,200.00	5,120.39	4,200.00	4,122.64	22.35	19.91	-18.63	-4,751.19	4,825.25	6,113.53	6,076.71	36.82	166.019		
5,300.00	5,218.11	4,422.00	4,341.23	22.85	20.95	-18.54	-4,789.52	4,830.55	6,106.28	6,068.14	38.14	160.102		
5,400.00	5,315.83	4,461.91	4,380.52	23.36	21.14	-18.52	-4,796.51	4,831.46	6,099.56	6,060.86	38.70	157.598		
5,500.00	5,413.55	4,532.50	4,450.12	23.86	21.46	-18.51	-4,807.78	4,834.77	6,093.62	6,054.23	39.38	154.725		
5,600.00	5,511.27	4,590.67	4,507.46	24.37	21.73	-18.50	-4,817.11	4,837.76	6,088.11	6,048.10	40.01	152.153		
5,700.00	5,608.99	4,852.99	4,766.26	24.88	22.92	-18.44	-4,858.91	4,846.19	6,080.16	6,038.70	41.46	146.651		
5,800.00	5,706.71	4,907.07	4,819.64	25.38	23.17	-18.42	-4,867.46	4,847.75	6,072.79	6,030.71	42.08	144.313		
5,900.00	5,804.43	5,122.03	5,031.40	25.89	24.16	-18.32	-4,904.25	4,849.89	6,065.17	6,021.81	43.36	139.884		
6,000.00	5,902.15	6,000.00	5,155.90	26.40	28.10	-18.26	-4,924.75	4,850.08	6,056.18	6,008.78	47.39	127.787		
6,100.00	5,999.87	5,354.18	5,260.70	26.91	25.20	-18.22	-4,940.41	4,850.69	6,046.43	6,001.33	45.10	134.081		
6,200.00	6,097.59	5,405.00	5,310.99	27.42	25.42	-18.20	-4,947.76	4,851.45	6,037.26	5,991.55	45.71	132.087		
6,300.00	6,195.30	5,473.79	5,378.96	27.92	25.73	-18.18	-4,958.30	4,852.48	6,028.66	5,982.27	46.39	129.959		
6,400.00	6,293.02	5,578.96	5,482.79	28.43	26.20	-18.15	-4,974.82	4,854.70	6,020.71	5,973.50	47.21	127.533		
6,500.00	6,390.74	5,634.71	5,537.92	28.94	26.45	-18.14	-4,982.98	4,856.39	6,012.75	5,964.91	47.84	125.695		
6,600.00	6,488.46	5,845.26	5,746.14	29.45	27.37	-18.11	-5,013.24	4,863.58	6,005.34	5,956.30	49.04	122.464		
6,638.14	6,525.73	5,874.90	5,775.51	29.64	27.49	-18.10	-5,017.17	4,864.35	6,001.80	5,952.50	49.31	121.724		
6,700.00	6,586.32	6,373.43	6,271.60	29.95	29.40	-18.07	-5,064.42	4,870.17	5,993.91	5,942.74	51.17	117.130		
6,800.00	6,684.79	6,634.43	6,532.36	30.42	30.23	-18.03	-5,074.91	4,868.55	5,979.33	5,927.02	52.31	114.302		
6,900.00	6,783.81	6,761.75	6,659.65	30.85	30.62	-17.98	-5,077.64	4,867.58	5,966.96	5,913.88	53.08	112.415		
7,000.00	6,883.25	6,896.68	6,794.57	31.24	31.01	-17.94	-5,079.43	4,866.53	5,957.32	5,903.47	53.84	110.640		
7,100.00	6,983.00	7,008.95	6,906.82	31.60	31.33	-17.91	-5,080.62	4,865.33	5,950.60	5,896.05	54.54	109.101		
7,200.00	7,082.93	7,117.63	7,015.49	31.92	31.64	-17.88	-5,081.55	4,864.15	5,947.04	5,891.83	55.22	107.704		
7,251.07	7,134.00	7,169.15	7,067.00	32.06	31.79	133.42	-5,081.89	4,863.62	5,946.45	5,890.91	55.54	107.065		
7,300.00	7,182.93	7,211.65	7,109.51	32.19	31.91	133.43	-5,082.15	4,863.24	5,946.34	5,890.51	55.83	106.509		
7,351.07	7,234.00	7,256.74	7,154.59	32.32	32.03	133.43	-5,082.41	4,862.92	5,946.28	5,890.14	56.13	105.933		
7,400.00	7,282.87	7,302.25	7,200.10	32.47	32.17	-46.35	-5,082.64	4,862.67	5,944.81	5,888.36	56.45	105.319		
7,450.00	7,332.44	7,352.78	7,250.63	32.67	32.31	-46.71	-5,082.85	4,862.47	5,940.36	5,883.56	56.80	104.580		
7,500.00	7,381.26	7,424.97	7,322.82	32.90	32.51	-47.38	-5,083.00	4,862.09	5,932.84	5,875.62	57.22	103.680		
7,550.00	7,428.96	7,467.98	7,365.83	33.18	32.63	-48.27	-5,083.02	4,861.82	5,922.33	5,864.73	57.60	102.820		
7,600.00	7,475.17	7,504.72	7,402.56	33.48	32.73	-49.40	-5,083.03	4,861.67	5,909.11	5,851.13	57.98	101.918		
7,650.00	7,519.55	7,539.30	7,437.15	33.82	32.83	-50.81	-5,083.05	4,861.60	5,893.28	5,834.91	58.37	100.964		
7,700.00	7,561.76	7,570.28	7,468.13	34.20	32.92	-52.48	-5,083.09	4,861.59	5,874.99	5,816.22	58.77	99.968		
7,750.00	7,601.47	7,599.47	7,497.31	34.60	33.00	-54.45	-5,083.14	4,861.64	5,854.41	5,795.24	59.18	98.933		
7,800.00	7,638.39	7,627.00	7,524.85	35.04	33.08	-56.72	-5,083.21	4,861.74	5,831.71	5,772.12	59.59	97.863		
7,850.00	7,672.23	7,659.49	7,557.34	35.50	33.17	-59.36	-5,083.28	4,861.91	5,807.05	5,747.02	60.03	96.744		
7,900.00	7,702.74	7,689.14	7,586.99	35.99	33.25	-62.32	-5,083.30	4,862.10	5,780.62	5,720.16	60.46	95.604		
7,950.00	7,729.67	7,715.24	7,613.09	36.50	33.33	-65.58	-5,083.29	4,862.31	5,752.67	5,691.76	60.91	94.453		
8,000.00	7,752.84	7,734.78	7,632.62	37.04	33.38	-69.11	-5,083.27	4,862.48	5,723.42	5,662.08	61.34	93.305		
8,050.00	7,772.06	7,749.94	7,647.79	37.60	33.42	-72.87	-5,083.25	4,862.63	5,693.14	5,631.37	61.78	92.158		
8,100.00	7,787.18	7,761.85	7,659.69	38.17	33.46	-76.84	-5,083.23	4,862.77	5,662.09	5,599.87	62.21	91.012		
8,150.00	7,798.10	7,770.41	7,668.26	38.76	33.48	-80.94	-5,083.21	4,862.87	5,630.50	5,567.85	62.65	89.874		
8,200.00	7,804.72	7,775.58	7,673.42	39.36	33.49	-85.11	-5,083.20	4,862.93	5,598.64	5,535.55	63.08	88.749		
8,251.15	7,807.00	7,777.31	7,675.15	39.97	33.50	-89.36	-5,083.20	4,862.95	5,566.02	5,502.49	63.53	87.618		
8,300.00	7,807.00	7,777.24	7,675.08	40.56	33.50	-89.36	-5,083.20	4,862.95	5,535.07	5,471.11	63.96	86.544		
8,400.00	7,807.00	7,777.09	7,674.93	41.80	33.50	-89.36	-5,083.20	4,862.95	5,472.52	5,407.62	64.90	84.317		
8,500.00	7,807.00	7,776.94	7,674.79	43.08	33.50	-89.36	-5,083.20	4,862.95	5,411.10	5,345.16	65.94	82.064		
8,600.00	7,806.99	7,776.80	7,674.64	44.40	33.50	-89.36	-5,083.20	4,862.95	5,350.84	5,283.78	67.06	79.796		
8,700.00	7,806.99	7,776.65	7,674.50	45.74	33.50	-89.35	-5,083.20	4,862.95	5,291.79	5,223.53	68.26	77.527		
8,800.00	7,806.99	7,776.51	7,674.35	47.11	33.50	-89.35	-5,083.20	4,862.94	5,233.98	5,164.44	69.54	75.267		
8,900.00	7,806.99	7,776.36	7,674.21	48.51	33.50	-89.35	-5,083.20	4,862.94	5,177.46	5,106.56	70.90	73.027		
9,000.00	7,806.99	7,776.22	7,674.06	49.93	33.50	-89.35	-5,083.20	4,862.94	5,122.26	5,049.93	72.33	70.815		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
9,100.00	7,806.99	7,776.08	7,673.92	51.38	33.50	-89.35	-5,083.20	4,862.94	5,068.44	4,994.60	73.84	68.641		
9,200.00	7,806.99	7,775.93	7,673.77	52.84	33.50	-89.34	-5,083.20	4,862.94	5,016.03	4,940.62	75.42	66.512		
9,300.00	7,806.98	7,775.79	7,673.63	54.32	33.50	-89.34	-5,083.20	4,862.93	4,965.09	4,888.03	77.06	64.434		
9,400.00	7,806.98	7,775.65	7,673.49	55.82	33.50	-89.34	-5,083.20	4,862.93	4,915.65	4,836.89	78.76	62.412		
9,500.00	7,806.98	7,775.50	7,673.35	57.34	33.49	-89.34	-5,083.20	4,862.93	4,867.77	4,787.24	80.52	60.451		
9,600.00	7,806.98	7,775.36	7,673.20	58.87	33.49	-89.34	-5,083.20	4,862.93	4,821.48	4,739.14	82.34	58.553		
9,700.00	7,806.98	7,775.22	7,673.06	60.41	33.49	-89.33	-5,083.20	4,862.93	4,776.84	4,692.62	84.21	56.722		
9,800.00	7,806.98	7,775.08	7,672.92	61.96	33.49	-89.33	-5,083.20	4,862.93	4,733.89	4,647.76	86.13	54.960		
9,900.00	7,806.97	7,774.93	7,672.78	63.53	33.49	-89.33	-5,083.20	4,862.92	4,692.68	4,604.58	88.10	53.268		
10,000.00	7,806.97	7,774.79	7,672.64	65.10	33.49	-89.33	-5,083.20	4,862.92	4,653.25	4,563.15	90.10	51.647		
10,100.00	7,806.97	7,774.65	7,672.49	66.69	33.49	-89.33	-5,083.20	4,862.92	4,615.65	4,523.52	92.14	50.096		
10,200.00	7,806.97	7,774.51	7,672.35	68.29	33.49	-89.32	-5,083.20	4,862.92	4,579.93	4,485.73	94.21	48.616		
10,300.00	7,806.97	7,774.37	7,672.21	69.89	33.49	-89.32	-5,083.20	4,862.92	4,546.13	4,449.83	96.30	47.207		
10,400.00	7,806.97	7,774.23	7,672.07	71.50	33.49	-89.32	-5,083.20	4,862.91	4,514.29	4,415.87	98.42	45.867		
10,500.00	7,806.97	7,774.09	7,671.93	73.12	33.49	-89.32	-5,083.20	4,862.91	4,484.45	4,383.89	100.56	44.596		
10,600.00	7,806.96	7,773.95	7,671.79	74.75	33.49	-89.32	-5,083.21	4,862.91	4,456.66	4,353.95	102.71	43.392		
10,700.00	7,806.96	7,773.81	7,671.65	76.38	33.49	-89.32	-5,083.21	4,862.91	4,430.95	4,326.09	104.86	42.254		
10,800.00	7,806.96	7,773.67	7,671.51	78.02	33.49	-89.31	-5,083.21	4,862.91	4,407.36	4,300.34	107.03	41.180		
10,900.00	7,806.96	7,773.53	7,671.38	79.66	33.49	-89.31	-5,083.21	4,862.91	4,385.93	4,276.74	109.19	40.170		
11,000.00	7,806.96	7,773.39	7,671.24	81.31	33.49	-89.31	-5,083.21	4,862.90	4,366.68	4,255.34	111.34	39.220		
11,100.00	7,806.96	7,773.26	7,671.10	82.97	33.49	-89.31	-5,083.21	4,862.90	4,349.64	4,236.17	113.48	38.330		
11,200.00	7,806.95	7,773.12	7,670.96	84.63	33.49	-89.31	-5,083.21	4,862.90	4,334.85	4,219.25	115.60	37.498		
11,300.00	7,806.95	7,772.98	7,670.82	86.29	33.49	-89.30	-5,083.21	4,862.90	4,322.32	4,204.61	117.70	36.722		
11,400.00	7,806.95	7,772.84	7,670.68	87.96	33.49	-89.30	-5,083.21	4,862.90	4,312.07	4,192.29	119.78	36.000		
11,500.00	7,806.95	7,772.70	7,670.55	89.64	33.49	-89.30	-5,083.21	4,862.90	4,304.12	4,182.30	121.83	35.330		
11,600.00	7,806.95	7,772.57	7,670.41	91.31	33.49	-89.30	-5,083.21	4,862.89	4,298.49	4,174.65	123.84	34.711		
11,700.00	7,806.95	7,772.43	7,670.27	92.99	33.49	-89.30	-5,083.21	4,862.89	4,295.17	4,169.36	125.81	34.141		
11,792.42	7,806.95	7,772.30	7,670.15	94.55	33.49	-89.30	-5,083.21	4,862.89	4,294.18	4,166.59	127.59	33.656 CC		
11,800.00	7,806.95	7,772.29	7,670.14	94.68	33.49	-89.30	-5,083.21	4,862.89	4,294.18	4,166.45	127.73	33.618		
11,900.00	7,806.94	7,772.16	7,670.00	96.36	33.49	-89.29	-5,083.21	4,862.89	4,295.52	4,165.91	129.61	33.141 ES		
12,000.00	7,806.94	7,772.02	7,669.86	98.05	33.49	-89.29	-5,083.21	4,862.89	4,299.19	4,167.75	131.44	32.708		
12,100.00	7,806.94	7,771.89	7,669.73	99.74	33.48	-89.29	-5,083.21	4,862.89	4,305.18	4,171.96	133.22	32.317		
12,200.00	7,806.94	7,771.75	7,669.59	101.44	33.48	-89.29	-5,083.21	4,862.88	4,313.48	4,178.54	134.93	31.967		
12,300.00	7,806.94	7,771.62	7,669.46	103.14	33.48	-89.29	-5,083.21	4,862.88	4,324.07	4,187.48	136.59	31.656		
12,400.00	7,806.94	7,771.48	7,669.32	104.84	33.48	-89.28	-5,083.21	4,862.88	4,336.95	4,198.76	138.19	31.384		
12,500.00	7,806.93	7,771.35	7,669.19	106.54	33.48	-89.28	-5,083.21	4,862.88	4,352.08	4,212.36	139.73	31.147		
12,600.00	7,806.93	7,771.21	7,669.05	108.25	33.48	-89.28	-5,083.21	4,862.88	4,369.46	4,228.26	141.20	30.946		
12,700.00	7,806.93	7,771.08	7,668.92	109.95	33.48	-89.28	-5,083.21	4,862.88	4,389.04	4,246.44	142.60	30.779		
12,800.00	7,806.93	7,770.94	7,668.79	111.66	33.48	-89.28	-5,083.21	4,862.87	4,410.80	4,266.86	143.94	30.644		
12,900.00	7,806.93	7,770.81	7,668.65	113.37	33.48	-89.28	-5,083.21	4,862.87	4,434.71	4,289.50	145.21	30.540		
13,000.00	7,806.93	7,770.68	7,668.52	115.09	33.48	-89.27	-5,083.21	4,862.87	4,460.74	4,314.32	146.42	30.466		
13,100.00	7,806.93	7,770.54	7,668.39	116.80	33.48	-89.27	-5,083.21	4,862.87	4,488.84	4,341.29	147.56	30.421		
13,200.00	7,806.92	7,770.41	7,668.25	118.52	33.48	-89.27	-5,083.21	4,862.87	4,518.99	4,370.36	148.63	30.405 SF		
13,300.00	7,806.92	7,770.28	7,668.12	120.24	33.48	-89.27	-5,083.21	4,862.87	4,551.13	4,401.49	149.64	30.414		
13,400.00	7,806.92	7,770.14	7,667.99	121.96	33.48	-89.27	-5,083.21	4,862.86	4,585.22	4,434.64	150.58	30.450		
13,500.00	7,806.92	7,770.01	7,667.86	123.68	33.48	-89.26	-5,083.21	4,862.86	4,621.23	4,469.76	151.47	30.510		
13,600.00	7,806.92	7,769.88	7,667.72	125.40	33.48	-89.26	-5,083.21	4,862.86	4,659.11	4,506.82	152.29	30.594		
13,700.00	7,806.92	7,769.75	7,667.59	127.12	33.48	-89.26	-5,083.21	4,862.86	4,698.81	4,545.76	153.05	30.701		
13,800.00	7,806.91	7,769.62	7,667.46	128.85	33.48	-89.26	-5,083.21	4,862.86	4,740.29	4,586.53	153.76	30.830		
13,900.00	7,806.91	7,769.49	7,667.33	130.58	33.48	-89.26	-5,083.21	4,862.86	4,783.50	4,629.09	154.41	30.980		
14,000.00	7,806.91	7,769.36	7,667.20	132.30	33.48	-89.26	-5,083.21	4,862.86	4,828.39	4,673.39	155.00	31.150		
14,100.00	7,806.91	7,769.23	7,667.07	134.03	33.48	-89.25	-5,083.21	4,862.85	4,874.92	4,719.37	155.55	31.340		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
14,200.00	7,806.91	7,769.09	7,666.94	135.76	33.48	-89.25	-5,083.21	4,862.85	4,923.05	4,767.00	156.04	31.549		
14,300.00	7,806.91	7,768.96	7,666.81	137.50	33.48	-89.25	-5,083.21	4,862.85	4,972.71	4,816.22	156.49	31.776		
14,400.00	7,806.91	7,768.83	7,666.68	139.23	33.48	-89.25	-5,083.21	4,862.85	5,023.88	4,866.99	156.89	32.021		
14,500.00	7,806.90	7,768.70	7,666.55	140.96	33.48	-89.25	-5,083.21	4,862.85	5,076.51	4,919.25	157.25	32.282		
14,600.00	7,806.90	7,768.58	7,666.42	142.70	33.48	-89.25	-5,083.21	4,862.85	5,130.54	4,972.97	157.57	32.560		
14,700.00	7,806.90	7,768.45	7,666.29	144.43	33.48	-89.24	-5,083.22	4,862.84	5,185.94	5,028.08	157.85	32.853		
14,800.00	7,806.90	7,768.32	7,666.16	146.17	33.47	-89.24	-5,083.22	4,862.84	5,242.66	5,084.56	158.10	33.161		
14,900.00	7,806.90	7,768.19	7,666.03	147.91	33.47	-89.24	-5,083.22	4,862.84	5,300.66	5,142.35	158.31	33.483		
15,000.00	7,806.90	7,768.06	7,665.90	149.64	33.47	-89.24	-5,083.22	4,862.84	5,359.90	5,201.41	158.48	33.820		
15,100.00	7,806.89	7,767.93	7,665.78	151.38	33.47	-89.24	-5,083.22	4,862.84	5,420.33	5,261.70	158.63	34.170		
15,200.00	7,806.89	7,767.80	7,665.65	153.12	33.47	-89.24	-5,083.22	4,862.84	5,481.93	5,323.18	158.75	34.532		
15,300.00	7,806.89	7,767.68	7,665.52	154.86	33.47	-89.23	-5,083.22	4,862.83	5,544.64	5,385.80	158.84	34.907		
15,400.00	7,806.89	7,767.55	7,665.39	156.60	33.47	-89.23	-5,083.22	4,862.83	5,608.43	5,449.53	158.90	35.295		
15,500.00	7,806.89	7,767.42	7,665.26	158.35	33.47	-89.23	-5,083.22	4,862.83	5,673.28	5,514.33	158.95	35.693		
15,600.00	7,806.89	7,767.29	7,665.14	160.09	33.47	-89.23	-5,083.22	4,862.83	5,739.13	5,580.16	158.97	36.103		
15,700.00	7,806.89	7,767.17	7,665.01	161.83	33.47	-89.23	-5,083.22	4,862.83	5,805.95	5,646.99	158.96	36.524		
15,800.00	7,806.88	7,767.04	7,664.88	163.57	33.47	-89.23	-5,083.22	4,862.83	5,873.72	5,714.78	158.94	36.954		
15,900.00	7,806.88	7,766.91	7,664.76	165.32	33.47	-89.22	-5,083.22	4,862.83	5,942.40	5,783.49	158.91	37.395		
16,000.00	7,806.88	7,766.79	7,664.63	167.06	33.47	-89.22	-5,083.22	4,862.82	6,011.96	5,853.10	158.85	37.846		
16,100.00	7,806.88	7,766.66	7,664.51	168.81	33.47	-89.22	-5,083.22	4,862.82	6,082.36	5,923.58	158.78	38.306		
16,200.00	7,806.88	7,766.54	7,664.38	170.56	33.47	-89.22	-5,083.22	4,862.82	6,153.59	5,994.89	158.70	38.775		
16,300.00	7,806.88	7,766.41	7,664.26	172.30	33.47	-89.22	-5,083.22	4,862.82	6,225.61	6,067.00	158.61	39.252		
16,400.00	7,806.87	7,766.29	7,664.13	174.05	33.47	-89.22	-5,083.22	4,862.82	6,298.39	6,139.89	158.50	39.738		
16,500.00	7,806.87	7,766.16	7,664.01	175.80	33.47	-89.21	-5,083.22	4,862.82	6,371.91	6,213.53	158.38	40.232		
16,600.00	7,806.87	7,766.04	7,663.88	177.55	33.47	-89.21	-5,083.22	4,862.82	6,446.14	6,287.89	158.25	40.733		
16,700.00	7,806.87	7,765.91	7,663.76	179.30	33.47	-89.21	-5,083.22	4,862.81	6,521.06	6,362.94	158.12	41.242		
16,800.00	7,806.87	7,765.79	7,663.63	181.04	33.47	-89.21	-5,083.22	4,862.81	6,596.65	6,438.68	157.97	41.759		
16,900.00	7,806.87	7,765.66	7,663.51	182.79	33.47	-89.21	-5,083.22	4,862.81	6,672.87	6,515.06	157.82	42.282		
17,000.00	7,806.87	7,765.54	7,663.38	184.54	33.47	-89.21	-5,083.22	4,862.81	6,749.72	6,592.07	157.66	42.813		
17,100.00	7,806.86	7,765.42	7,663.26	186.30	33.47	-89.20	-5,083.22	4,862.81	6,827.17	6,669.68	157.49	43.349		
17,200.00	7,806.86	7,765.29	7,663.14	188.05	33.47	-89.20	-5,083.22	4,862.81	6,905.20	6,747.88	157.32	43.893		
17,300.00	7,806.86	7,765.17	7,663.01	189.80	33.47	-89.20	-5,083.22	4,862.81	6,983.79	6,826.64	157.14	44.442		
17,400.00	7,806.86	7,765.05	7,662.89	191.55	33.47	-89.20	-5,083.22	4,862.80	7,062.92	6,905.95	156.96	44.997		
17,500.00	7,806.86	7,764.93	7,662.77	193.30	33.47	-89.20	-5,083.22	4,862.80	7,142.57	6,985.79	156.78	45.558		
17,600.00	7,806.86	7,764.80	7,662.65	195.06	33.47	-89.20	-5,083.22	4,862.80	7,222.73	7,066.14	156.59	46.124		
17,700.00	7,806.85	7,764.68	7,662.52	196.81	33.46	-89.19	-5,083.22	4,862.80	7,303.38	7,146.98	156.40	46.696		
17,800.00	7,806.85	7,764.56	7,662.40	198.56	33.46	-89.19	-5,083.22	4,862.80	7,384.50	7,228.29	156.21	47.273		
17,898.35	7,807.00	7,764.55	7,662.39	200.29	33.46	-89.19	-5,083.22	4,862.80	7,464.73	7,308.71	156.02	47.845		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	3.00	3.00	0.00	0.04	135.89	-3,227.20	3,128.82	4,494.92					
100.00	100.00	103.00	103.00	0.13	1.25	135.89	-3,227.20	3,128.82	4,494.92	4,493.54	1.39	3,238.153		
200.00	200.00	203.00	203.00	0.49	3.54	135.89	-3,227.20	3,128.82	4,494.92	4,490.89	4.03	1,114.600		
300.00	300.00	303.00	303.00	0.85	5.62	135.89	-3,227.20	3,128.82	4,494.92	4,488.46	6.47	694.872		
400.00	400.00	403.00	403.00	1.21	7.66	135.89	-3,227.20	3,128.82	4,494.92	4,486.06	8.87	506.811		
500.00	500.00	503.00	503.00	1.57	9.69	135.89	-3,227.20	3,128.82	4,494.92	4,483.67	11.26	399.322		
600.00	600.00	603.00	603.00	1.93	11.71	135.89	-3,227.20	3,128.82	4,494.92	4,481.29	13.64	329.599		
700.00	700.00	703.00	703.00	2.29	13.73	135.89	-3,227.20	3,128.82	4,494.92	4,478.91	16.02	280.665		
800.00	800.00	803.00	803.00	2.64	15.75	135.89	-3,227.20	3,128.82	4,494.92	4,476.53	18.39	244.411		
900.00	900.00	903.00	903.00	3.00	17.76	135.89	-3,227.20	3,128.82	4,494.92	4,474.16	20.76	216.466		
1,000.00	1,000.00	1,003.00	1,003.00	3.36	19.78	135.89	-3,227.20	3,128.82	4,494.92	4,471.79	23.14	194.264		
1,100.00	1,100.00	1,103.00	1,103.00	3.72	21.79	135.89	-3,227.20	3,128.82	4,494.92	4,469.41	25.51	176.198		
1,200.00	1,200.00	1,203.00	1,203.00	4.08	23.81	135.89	-3,227.20	3,128.82	4,494.92	4,467.04	27.88	161.209		
1,300.00	1,300.00	1,303.00	1,303.00	4.44	25.82	135.89	-3,227.20	3,128.82	4,494.92	4,464.67	30.25	148.572		
1,400.00	1,399.98	1,402.98	1,402.98	4.78	27.83	-15.42	-3,227.20	3,128.82	4,493.24	4,460.63	32.61	137.795		
1,500.00	1,499.84	1,502.84	1,502.84	5.11	29.84	-15.47	-3,227.20	3,128.82	4,488.20	4,453.25	34.95	128.429		
1,600.00	1,599.45	1,602.45	1,602.45	5.44	31.84	-15.54	-3,227.20	3,128.82	4,479.80	4,442.51	37.28	120.152		
1,700.00	1,698.70	1,701.70	1,701.70	5.79	33.84	-15.65	-3,227.20	3,128.82	4,468.05	4,428.43	39.62	112.778		
1,800.00	1,797.47	1,800.47	1,800.47	6.15	35.83	-15.79	-3,227.20	3,128.82	4,452.98	4,411.04	41.95	106.162		
1,900.00	1,895.62	1,901.38	1,898.62	6.53	37.86	-15.96	-3,227.20	3,128.82	4,434.60	4,390.28	44.32	100.061		
1,912.93	1,908.27	1,911.27	1,911.27	6.58	38.06	-15.98	-3,227.20	3,128.82	4,431.99	4,387.42	44.57	99.450		
2,000.00	1,993.35	2,003.65	1,996.35	6.93	39.92	-16.05	-3,227.20	3,128.82	4,414.19	4,367.46	46.72	94.476		
2,100.00	2,091.07	2,105.93	2,094.07	7.34	41.97	-16.12	-3,227.20	3,128.82	4,393.75	4,344.62	49.13	89.434		
2,200.00	2,188.79	2,208.21	2,191.79	7.77	44.03	-16.20	-3,227.20	3,128.82	4,373.32	4,321.78	51.54	84.855		
2,300.00	2,286.51	2,289.51	2,289.51	8.20	45.67	-16.28	-3,227.20	3,128.82	4,352.90	4,299.37	53.53	81.316		
2,400.00	2,384.23	2,387.23	2,387.23	8.65	47.63	-16.36	-3,227.20	3,128.82	4,332.49	4,276.63	55.86	77.564		
2,500.00	2,481.95	2,484.95	2,484.95	9.10	49.60	-16.44	-3,227.20	3,128.82	4,312.08	4,253.89	58.19	74.109		
2,600.00	2,579.67	2,582.67	2,582.67	9.56	51.56	-16.52	-3,227.20	3,128.82	4,291.68	4,231.16	60.52	70.916		
2,700.00	2,677.39	2,680.39	2,680.39	10.02	53.53	-16.60	-3,227.20	3,128.82	4,271.29	4,208.44	62.85	67.958		
2,800.00	2,775.11	2,778.11	2,778.11	10.49	55.50	-16.68	-3,227.20	3,128.82	4,250.91	4,185.72	65.19	65.209		
2,900.00	2,872.83	2,875.83	2,875.83	10.96	57.46	-16.76	-3,227.20	3,128.82	4,230.54	4,163.01	67.53	62.649		
3,000.00	2,970.55	2,973.55	2,973.55	11.44	59.43	-16.84	-3,227.20	3,128.82	4,210.17	4,140.31	69.87	60.259		
3,100.00	3,068.27	3,071.27	3,071.27	11.92	61.39	-16.93	-3,227.20	3,128.82	4,189.82	4,117.61	72.21	58.023		
3,200.00	3,165.99	3,168.99	3,168.99	12.40	63.36	-17.01	-3,227.20	3,128.82	4,169.47	4,094.92	74.55	55.926		
3,300.00	3,263.71	3,266.71	3,266.71	12.88	65.32	-17.10	-3,227.20	3,128.82	4,149.13	4,072.23	76.90	53.956		
3,400.00	3,361.43	3,364.43	3,364.43	13.37	67.29	-17.18	-3,227.20	3,128.82	4,128.80	4,049.56	79.25	52.102		
3,500.00	3,459.15	3,462.15	3,462.15	13.86	69.25	-17.27	-3,227.20	3,128.82	4,108.48	4,026.89	81.59	50.354		
3,600.00	3,556.87	3,559.87	3,559.87	14.35	71.22	-17.36	-3,227.20	3,128.82	4,088.17	4,004.23	83.94	48.703		
3,700.00	3,654.59	3,657.59	3,657.59	14.84	73.18	-17.45	-3,227.20	3,128.82	4,067.87	3,981.58	86.29	47.141		
3,800.00	3,752.31	3,755.31	3,755.31	15.34	75.15	-17.54	-3,227.20	3,128.82	4,047.58	3,958.94	88.64	45.662		
3,900.00	3,850.03	3,853.03	3,853.03	15.83	77.11	-17.63	-3,227.20	3,128.82	4,027.30	3,936.30	90.99	44.259		
4,000.00	3,947.75	3,950.75	3,950.75	16.33	79.08	-17.72	-3,227.20	3,128.82	4,007.02	3,913.68	93.35	42.926		
4,100.00	4,045.47	4,048.47	4,048.47	16.83	81.05	-17.81	-3,227.20	3,128.82	3,986.76	3,891.06	95.70	41.659		
4,200.00	4,143.19	4,146.19	4,146.19	17.32	83.01	-17.91	-3,227.20	3,128.82	3,966.51	3,868.45	98.06	40.452		
4,300.00	4,240.91	4,243.91	4,243.91	17.82	84.98	-18.00	-3,227.20	3,128.82	3,946.27	3,845.86	100.41	39.301		
4,400.00	4,338.63	4,341.63	4,341.63	18.32	86.94	-18.10	-3,227.20	3,128.82	3,926.04	3,823.27	102.77	38.203		
4,500.00	4,436.35	4,439.35	4,439.35	18.82	88.91	-18.19	-3,227.20	3,128.82	3,905.81	3,800.69	105.12	37.154		
4,600.00	4,534.07	4,537.07	4,537.07	19.33	90.87	-18.29	-3,227.20	3,128.82	3,885.60	3,778.12	107.48	36.151		
4,700.00	4,631.79	4,634.79	4,634.79	19.83	92.84	-18.39	-3,227.20	3,128.82	3,865.41	3,755.56	109.84	35.191		
4,800.00	4,729.51	4,732.51	4,732.51	20.33	94.80	-18.49	-3,227.20	3,128.82	3,845.22	3,733.02	112.20	34.271		
4,900.00	4,827.23	4,830.23	4,830.23	20.83	96.77	-18.59	-3,227.20	3,128.82	3,825.04	3,710.48	114.56	33.389		
5,000.00	4,924.95	4,927.95	4,927.95	21.34	98.73	-18.69	-3,227.20	3,128.82	3,804.88	3,687.96	116.92	32.542		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,025.67	5,025.67	21.84	100.70	-18.80	-3,227.20	3,128.82	3,784.72	3,665.44	119.28	31.729		
5,200.00	5,120.39	5,123.39	5,123.39	22.35	102.66	-18.90	-3,227.20	3,128.82	3,764.58	3,642.94	121.64	30.948		
5,300.00	5,218.11	5,221.11	5,221.11	22.85	104.63	-19.00	-3,227.20	3,128.82	3,744.45	3,620.44	124.01	30.196		
5,400.00	5,315.83	5,318.83	5,318.83	23.36	106.59	-19.11	-3,227.20	3,128.82	3,724.33	3,597.96	126.37	29.472		
5,500.00	5,413.55	5,416.55	5,416.55	23.86	108.56	-19.22	-3,227.20	3,128.82	3,704.23	3,575.50	128.73	28.774		
5,600.00	5,511.27	5,514.27	5,514.27	24.37	110.52	-19.33	-3,227.20	3,128.82	3,684.14	3,553.04	131.10	28.102		
5,700.00	5,608.99	5,611.99	5,611.99	24.88	112.49	-19.44	-3,227.20	3,128.82	3,664.06	3,530.59	133.46	27.454		
5,800.00	5,706.71	5,709.71	5,709.71	25.38	114.45	-19.55	-3,227.20	3,128.82	3,643.99	3,508.16	135.83	26.828		
5,900.00	5,804.43	5,807.43	5,807.43	25.89	116.42	-19.66	-3,227.20	3,128.82	3,623.94	3,485.74	138.20	26.223		
6,000.00	5,902.15	5,905.15	5,905.15	26.40	118.38	-19.77	-3,227.20	3,128.82	3,603.90	3,463.33	140.56	25.639		
6,100.00	5,999.87	6,002.87	6,002.87	26.91	120.35	-19.89	-3,227.20	3,128.82	3,583.87	3,440.94	142.93	25.074		
6,200.00	6,097.59	6,100.59	6,100.59	27.42	122.31	-20.00	-3,227.20	3,128.82	3,563.86	3,418.56	145.30	24.528		
6,300.00	6,195.30	6,201.70	6,198.30	27.92	124.35	-20.12	-3,227.20	3,128.82	3,543.86	3,396.13	147.74	23.987		
6,400.00	6,293.02	6,303.98	6,296.02	28.43	126.41	-20.24	-3,227.20	3,128.82	3,523.88	3,373.68	150.20	23.461		
6,500.00	6,390.74	6,406.26	6,393.74	28.94	128.46	-20.36	-3,227.20	3,128.82	3,503.91	3,351.25	152.66	22.952		
6,600.00	6,488.46	6,508.54	6,491.46	29.45	130.52	-20.48	-3,227.20	3,128.82	3,483.96	3,328.83	155.13	22.459		
6,638.14	6,525.73	6,528.73	6,528.73	29.64	130.92	-20.52	-3,227.20	3,128.82	3,476.35	3,320.67	155.69	22.329		
6,700.00	6,586.32	6,589.32	6,589.32	29.95	132.14	-20.51	-3,227.20	3,128.82	3,464.63	3,307.48	157.15	22.046		
6,800.00	6,684.79	6,687.79	6,687.79	30.42	134.12	-20.50	-3,227.20	3,128.82	3,448.31	3,288.78	159.53	21.616		
6,900.00	6,783.81	6,786.81	6,786.81	30.85	136.11	-20.49	-3,227.20	3,128.82	3,435.22	3,273.32	161.90	21.218		
7,000.00	6,883.25	6,886.25	6,886.25	31.24	138.11	-20.48	-3,227.20	3,128.82	3,425.39	3,261.11	164.27	20.852		
7,100.00	6,983.00	6,986.00	6,986.00	31.60	140.12	-20.47	-3,227.20	3,128.82	3,418.81	3,252.18	166.63	20.517		
7,200.00	7,082.93	7,085.93	7,085.93	31.92	142.13	-20.47	-3,227.20	3,128.82	3,415.51	3,246.52	168.98	20.212		
7,251.07	7,134.00	7,137.00	7,137.00	32.06	143.16	130.83	-3,227.20	3,128.82	3,415.08	3,244.91	170.17	20.068		
7,300.00	7,182.93	7,185.93	7,185.93	32.19	144.14	130.83	-3,227.20	3,128.82	3,415.08	3,243.78	171.31	19.935		
7,351.07	7,234.00	7,237.00	7,237.00	32.32	145.17	130.83	-3,227.20	3,128.82	3,415.08	3,242.59	172.49	19.799		
7,400.00	7,282.87	7,285.87	7,285.87	32.47	146.15	-48.96	-3,227.20	3,128.82	3,413.71	3,240.07	173.64	19.660		
7,450.00	7,332.44	7,335.44	7,335.44	32.67	147.15	-49.37	-3,227.20	3,128.82	3,409.48	3,234.65	174.83	19.501		
7,500.00	7,381.26	7,384.26	7,384.26	32.90	148.13	-50.04	-3,227.20	3,128.82	3,402.45	3,226.41	176.04	19.328		
7,550.00	7,428.96	7,431.96	7,431.96	33.18	149.09	-51.00	-3,227.20	3,128.82	3,392.68	3,215.44	177.24	19.142		
7,600.00	7,475.17	7,478.17	7,478.17	33.48	150.02	-52.25	-3,227.20	3,128.82	3,380.28	3,201.85	178.43	18.944		
7,650.00	7,519.55	7,522.55	7,522.55	33.82	150.91	-53.78	-3,227.20	3,128.82	3,365.40	3,185.79	179.61	18.737		
7,700.00	7,561.76	7,564.76	7,564.76	34.20	151.76	-55.61	-3,227.20	3,128.82	3,348.18	3,167.42	180.76	18.523		
7,750.00	7,601.47	7,604.47	7,604.47	34.60	152.56	-57.74	-3,227.20	3,128.82	3,328.82	3,146.94	181.88	18.302		
7,800.00	7,638.39	7,641.39	7,641.39	35.04	153.30	-60.17	-3,227.20	3,128.82	3,307.52	3,124.55	182.97	18.077		
7,850.00	7,672.23	7,675.23	7,675.23	35.50	153.98	-62.88	-3,227.20	3,128.82	3,284.49	3,100.49	184.01	17.850		
7,900.00	7,702.74	7,705.74	7,705.74	35.99	154.59	-65.85	-3,227.20	3,128.82	3,260.00	3,074.99	185.00	17.621		
7,950.00	7,729.67	7,732.67	7,732.67	36.50	155.14	-69.05	-3,227.20	3,128.82	3,234.28	3,048.33	185.95	17.393		
8,000.00	7,752.84	7,755.84	7,755.84	37.04	155.60	-72.43	-3,227.20	3,128.82	3,207.60	3,020.76	186.84	17.167		
8,050.00	7,772.06	7,775.06	7,775.06	37.60	155.99	-75.94	-3,227.20	3,128.82	3,180.22	2,992.54	187.68	16.945		
8,100.00	7,787.18	7,809.82	7,790.18	38.17	156.69	-79.52	-3,227.20	3,128.82	3,152.41	2,963.56	188.85	16.693		
8,150.00	7,798.10	7,801.10	7,801.10	38.76	156.51	-83.09	-3,227.20	3,128.82	3,124.44	2,935.27	189.17	16.517		
8,200.00	7,804.72	7,807.72	7,807.72	39.36	156.65	-86.58	-3,227.20	3,128.82	3,096.55	2,906.74	189.81	16.314		
8,251.15	7,807.00	7,810.00	7,810.00	39.97	156.69	-90.00	-3,227.20	3,128.82	3,068.37	2,877.97	190.40	16.115		
8,300.00	7,807.00	7,810.00	7,810.00	40.56	156.69	-90.00	-3,227.20	3,128.82	3,041.98	2,851.03	190.95	15.931		
8,400.00	7,807.00	7,810.00	7,810.00	41.80	156.69	-90.00	-3,227.20	3,128.82	2,989.72	2,797.56	192.16	15.559		
8,500.00	7,807.00	7,810.00	7,810.00	43.08	156.69	-90.00	-3,227.20	3,128.82	2,939.93	2,746.44	193.49	15.194		
8,600.00	7,806.99	7,809.99	7,809.99	44.40	156.69	-90.00	-3,227.20	3,128.82	2,892.74	2,697.81	194.93	14.840		
8,700.00	7,806.99	7,809.99	7,809.99	45.74	156.69	-90.00	-3,227.20	3,128.82	2,848.29	2,651.80	196.49	14.496		
8,800.00	7,806.99	7,809.99	7,809.99	47.11	156.69	-90.00	-3,227.20	3,128.82	2,806.69	2,608.55	198.14	14.165		
8,900.00	7,806.99	7,809.99	7,809.99	48.51	156.69	-90.00	-3,227.20	3,128.82	2,768.09	2,568.20	199.89	13.848		
9,000.00	7,806.99	7,809.99	7,809.99	49.93	156.69	-90.00	-3,227.20	3,128.82	2,732.59	2,530.88	201.71	13.547		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,809.99	7,809.99	51.38	156.69	-90.00	-3,227.20	3,128.82	2,700.34	2,496.74	203.61	13.263		
9,200.00	7,806.99	7,809.99	7,809.99	52.84	156.69	-90.00	-3,227.20	3,128.82	2,671.45	2,465.89	205.55	12.996		
9,300.00	7,806.98	7,809.98	7,809.98	54.32	156.69	-90.00	-3,227.20	3,128.82	2,646.02	2,438.47	207.54	12.749		
9,400.00	7,806.98	7,809.98	7,809.98	55.82	156.69	-90.00	-3,227.20	3,128.82	2,624.15	2,414.59	209.56	12.522		
9,500.00	7,806.98	7,809.98	7,809.98	57.34	156.69	-90.00	-3,227.20	3,128.82	2,605.95	2,394.36	211.59	12.316		
9,600.00	7,806.98	7,809.98	7,809.98	58.87	156.69	-90.00	-3,227.20	3,128.82	2,591.47	2,377.86	213.61	12.132		
9,700.00	7,806.98	7,809.98	7,809.98	60.41	156.69	-90.00	-3,227.20	3,128.82	2,580.80	2,365.17	215.62	11.969		
9,800.00	7,806.98	7,809.98	7,809.98	61.96	156.69	-90.00	-3,227.20	3,128.82	2,573.96	2,356.36	217.60	11.829		
9,900.00	7,806.97	7,809.97	7,809.97	63.53	156.69	-90.00	-3,227.20	3,128.82	2,571.00	2,351.47	219.53	11.711		
9,926.12	7,806.97	7,809.97	7,809.97	63.94	156.69	-90.00	-3,227.20	3,128.82	2,570.87	2,350.84	220.03	11.684 CC		
10,000.00	7,806.97	7,809.97	7,809.97	65.10	156.69	-90.00	-3,227.20	3,128.82	2,571.93	2,350.53	221.41	11.616 ES		
10,100.00	7,806.97	7,809.97	7,809.97	66.69	156.69	-90.00	-3,227.20	3,128.82	2,576.75	2,353.53	223.21	11.544		
10,200.00	7,806.97	7,809.97	7,809.97	68.29	156.69	-90.00	-3,227.20	3,128.82	2,585.42	2,360.48	224.94	11.494		
10,300.00	7,806.97	7,809.97	7,809.97	69.89	156.69	-90.00	-3,227.20	3,128.82	2,597.92	2,371.34	226.58	11.466		
10,400.00	7,806.97	7,809.97	7,809.97	71.50	156.69	-90.00	-3,227.20	3,128.82	2,614.18	2,386.06	228.13	11.459 SF		
10,500.00	7,806.97	7,809.97	7,809.97	73.12	156.69	-90.00	-3,227.20	3,128.82	2,634.15	2,404.57	229.58	11.474		
10,600.00	7,806.96	7,809.96	7,809.96	74.75	156.69	-90.00	-3,227.20	3,128.82	2,657.73	2,426.80	230.92	11.509		
10,700.00	7,806.96	7,809.96	7,809.96	76.38	156.69	-90.00	-3,227.20	3,128.82	2,684.82	2,452.66	232.17	11.564		
10,800.00	7,806.96	7,809.96	7,809.96	78.02	156.69	-90.00	-3,227.20	3,128.82	2,715.34	2,482.03	233.31	11.638		
10,900.00	7,806.96	7,809.96	7,809.96	79.66	156.69	-90.00	-3,227.20	3,128.82	2,749.15	2,514.80	234.35	11.731		
11,000.00	7,806.96	7,809.96	7,809.96	81.31	156.69	-90.00	-3,227.20	3,128.82	2,786.15	2,550.86	235.29	11.842		
11,100.00	7,806.96	7,809.96	7,809.96	82.97	156.69	-90.00	-3,227.20	3,128.82	2,826.20	2,590.07	236.13	11.969		
11,200.00	7,806.95	7,809.95	7,809.95	84.63	156.69	-90.00	-3,227.20	3,128.82	2,869.17	2,632.30	236.88	12.112		
11,300.00	7,806.95	7,809.95	7,809.95	86.29	156.69	-90.00	-3,227.20	3,128.82	2,914.95	2,677.41	237.54	12.271		
11,400.00	7,806.95	7,809.95	7,809.95	87.96	156.69	-90.00	-3,227.20	3,128.82	2,963.40	2,725.27	238.12	12.445		
11,500.00	7,806.95	7,809.95	7,809.95	89.64	156.69	-90.00	-3,227.20	3,128.82	3,014.38	2,775.76	238.62	12.632		
11,600.00	7,806.95	7,809.95	7,809.95	91.31	156.69	-90.00	-3,227.20	3,128.82	3,067.78	2,828.73	239.05	12.833		
11,700.00	7,806.95	7,809.95	7,809.95	92.99	156.69	-90.00	-3,227.20	3,128.82	3,123.47	2,884.05	239.42	13.046		
11,800.00	7,806.95	7,809.95	7,809.95	94.68	156.69	-90.00	-3,227.20	3,128.82	3,181.32	2,941.60	239.72	13.271		
11,900.00	7,806.94	7,809.94	7,809.94	96.36	156.69	-90.00	-3,227.20	3,128.82	3,241.23	3,001.27	239.97	13.507		
12,000.00	7,806.94	7,809.94	7,809.94	98.05	156.69	-90.00	-3,227.20	3,128.82	3,303.09	3,062.92	240.17	13.753		
12,100.00	7,806.94	7,809.94	7,809.94	99.74	156.69	-90.00	-3,227.20	3,128.82	3,366.77	3,126.46	240.32	14.010		
12,200.00	7,806.94	7,809.94	7,809.94	101.44	156.69	-90.00	-3,227.20	3,128.82	3,432.19	3,191.76	240.43	14.275		
12,300.00	7,806.94	7,809.94	7,809.94	103.14	156.69	-90.00	-3,227.20	3,128.82	3,499.24	3,258.75	240.50	14.550		
12,400.00	7,806.94	7,809.94	7,809.94	104.84	156.69	-90.00	-3,227.20	3,128.82	3,567.84	3,327.30	240.54	14.833		
12,500.00	7,806.93	7,809.93	7,809.93	106.54	156.69	-90.00	-3,227.20	3,128.82	3,637.89	3,397.35	240.55	15.123		
12,600.00	7,806.93	7,809.93	7,809.93	108.25	156.69	-90.00	-3,227.20	3,128.82	3,709.32	3,468.79	240.53	15.422		
12,700.00	7,806.93	7,809.93	7,809.93	109.95	156.69	-90.00	-3,227.20	3,128.82	3,782.04	3,541.55	240.49	15.726		
12,800.00	7,806.93	7,809.93	7,809.93	111.66	156.69	-90.00	-3,227.20	3,128.82	3,855.98	3,615.55	240.43	16.038		
12,900.00	7,806.93	7,809.93	7,809.93	113.37	156.69	-90.00	-3,227.20	3,128.82	3,931.08	3,690.73	240.35	16.356		
13,000.00	7,806.93	7,809.93	7,809.93	115.09	156.69	-90.00	-3,227.20	3,128.82	4,007.26	3,767.01	240.25	16.679		
13,100.00	7,806.93	7,809.93	7,809.93	116.80	156.69	-90.00	-3,227.20	3,128.82	4,084.47	3,844.33	240.15	17.008		
13,200.00	7,806.92	7,809.92	7,809.92	118.52	156.69	-90.00	-3,227.20	3,128.82	4,162.66	3,922.63	240.03	17.342		
13,300.00	7,806.92	7,809.92	7,809.92	120.24	156.69	-90.00	-3,227.20	3,128.82	4,241.75	4,001.85	239.90	17.681		
13,400.00	7,806.92	7,809.92	7,809.92	121.96	156.69	-90.00	-3,227.20	3,128.82	4,321.72	4,081.96	239.76	18.025		
13,500.00	7,806.92	7,809.92	7,809.92	123.68	156.69	-90.00	-3,227.20	3,128.82	4,402.50	4,162.89	239.62	18.373		
13,600.00	7,806.92	7,809.92	7,809.92	125.40	156.69	-90.00	-3,227.20	3,128.82	4,484.06	4,244.59	239.47	18.725		
13,700.00	7,806.92	7,809.92	7,809.92	127.12	156.69	-90.00	-3,227.20	3,128.82	4,566.35	4,327.04	239.31	19.081		
13,800.00	7,806.91	7,809.91	7,809.91	128.85	156.69	-90.00	-3,227.20	3,128.82	4,649.34	4,410.19	239.15	19.441		
13,900.00	7,806.91	7,809.91	7,809.91	130.58	156.69	-90.00	-3,227.20	3,128.82	4,732.98	4,493.99	238.99	19.804		
14,000.00	7,806.91	7,809.91	7,809.91	132.30	156.69	-90.00	-3,227.20	3,128.82	4,817.25	4,578.43	238.83	20.170		
14,100.00	7,806.91	7,809.91	7,809.91	134.03	156.69	-90.00	-3,227.20	3,128.82	4,902.11	4,663.45	238.66	20.540		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	7,809.91	7,809.91	135.76	156.69	-90.00	-3,227.20	3,128.82	4,987.53	4,749.04	238.49	20.913		
14,300.00	7,806.91	7,809.91	7,809.91	137.50	156.69	-90.00	-3,227.20	3,128.82	5,073.48	4,835.16	238.33	21.288		
14,400.00	7,806.91	7,809.91	7,809.91	139.23	156.69	-90.00	-3,227.20	3,128.82	5,159.94	4,921.78	238.16	21.666		
14,500.00	7,806.90	7,809.90	7,809.90	140.96	156.69	-90.00	-3,227.20	3,128.82	5,246.88	5,008.89	238.00	22.046		
14,600.00	7,806.90	7,809.90	7,809.90	142.70	156.69	-90.00	-3,227.20	3,128.82	5,334.28	5,096.45	237.83	22.429		
14,700.00	7,806.90	7,809.90	7,809.90	144.43	156.69	-90.00	-3,227.20	3,128.82	5,422.12	5,184.45	237.67	22.814		
14,800.00	7,806.90	7,809.90	7,809.90	146.17	156.69	-90.00	-3,227.20	3,128.82	5,510.37	5,272.86	237.50	23.201		
14,900.00	7,806.90	7,809.90	7,809.90	147.91	156.69	-90.00	-3,227.20	3,128.82	5,599.01	5,361.67	237.34	23.590		
15,000.00	7,806.90	7,809.90	7,809.90	149.64	156.69	-90.00	-3,227.20	3,128.82	5,688.03	5,450.85	237.18	23.982		
15,100.00	7,806.89	7,809.89	7,809.89	151.38	156.69	-90.00	-3,227.20	3,128.82	5,777.41	5,540.38	237.03	24.374		
15,200.00	7,806.89	7,809.89	7,809.89	153.12	156.69	-90.00	-3,227.20	3,128.82	5,867.13	5,630.26	236.87	24.769		
15,300.00	7,806.89	7,809.89	7,809.89	154.86	156.69	-90.00	-3,227.20	3,128.82	5,957.18	5,720.46	236.72	25.165		
15,400.00	7,806.89	7,809.89	7,809.89	156.60	156.69	-90.00	-3,227.20	3,128.82	6,047.54	5,810.97	236.57	25.563		
15,500.00	7,806.89	7,809.89	7,809.89	158.35	156.69	-90.00	-3,227.20	3,128.82	6,138.21	5,901.78	236.42	25.963		
15,600.00	7,806.89	7,809.89	7,809.89	160.09	156.69	-90.00	-3,227.20	3,128.82	6,229.15	5,992.87	236.28	26.364		
15,700.00	7,806.89	7,809.89	7,809.89	161.83	156.69	-90.00	-3,227.20	3,128.82	6,320.37	6,084.24	236.14	26.766		
15,800.00	7,806.88	7,809.88	7,809.88	163.57	156.69	-90.00	-3,227.20	3,128.82	6,411.86	6,175.86	236.00	27.169		
15,900.00	7,806.88	7,809.88	7,809.88	165.32	156.69	-90.00	-3,227.20	3,128.82	6,503.59	6,267.73	235.86	27.574		
16,000.00	7,806.88	7,809.88	7,809.88	167.06	156.69	-90.00	-3,227.20	3,128.82	6,595.56	6,359.84	235.73	27.980		
16,100.00	7,806.88	7,809.88	7,809.88	168.81	156.69	-90.00	-3,227.20	3,128.82	6,687.77	6,452.17	235.60	28.386		
16,200.00	7,806.88	7,809.88	7,809.88	170.56	156.69	-90.00	-3,227.20	3,128.82	6,780.19	6,544.72	235.47	28.794		
16,300.00	7,806.88	7,809.88	7,809.88	172.30	156.69	-90.00	-3,227.20	3,128.82	6,872.83	6,637.49	235.34	29.203		
16,400.00	7,806.87	7,809.87	7,809.87	174.05	156.69	-90.00	-3,227.20	3,128.82	6,965.67	6,730.45	235.22	29.613		
16,500.00	7,806.87	7,809.87	7,809.87	175.80	156.69	-90.00	-3,227.20	3,128.82	7,058.71	6,823.60	235.10	30.024		
16,600.00	7,806.87	7,809.87	7,809.87	177.55	156.69	-90.00	-3,227.20	3,128.82	7,151.93	6,916.94	234.99	30.436		
16,700.00	7,806.87	7,809.87	7,809.87	179.30	156.69	-90.00	-3,227.20	3,128.82	7,245.34	7,010.46	234.87	30.848		
16,800.00	7,806.87	7,809.87	7,809.87	181.04	156.69	-90.00	-3,227.20	3,128.82	7,338.91	7,104.15	234.76	31.261		
16,900.00	7,806.87	7,809.87	7,809.87	182.79	156.69	-90.00	-3,227.20	3,128.82	7,432.66	7,198.01	234.65	31.675		
17,000.00	7,806.87	7,809.87	7,809.87	184.54	156.69	-90.00	-3,227.20	3,128.82	7,526.57	7,292.02	234.55	32.090		
17,100.00	7,806.86	7,809.86	7,809.86	186.30	156.69	-90.00	-3,227.20	3,128.82	7,620.63	7,386.19	234.44	32.505		
17,200.00	7,806.86	7,809.86	7,809.86	188.05	156.69	-90.00	-3,227.20	3,128.82	7,714.84	7,480.50	234.34	32.921		
17,300.00	7,806.86	7,809.86	7,809.86	189.80	156.69	-90.00	-3,227.20	3,128.82	7,809.20	7,574.95	234.25	33.337		
17,400.00	7,806.86	7,809.86	7,809.86	191.55	156.69	-90.00	-3,227.20	3,128.82	7,903.69	7,669.54	234.15	33.754		
17,500.00	7,806.86	7,809.86	7,809.86	193.30	156.69	-90.00	-3,227.20	3,128.82	7,998.32	7,764.26	234.06	34.172		
17,600.00	7,806.86	7,809.86	7,809.86	195.06	156.69	-90.00	-3,227.20	3,128.82	8,093.08	7,859.11	233.97	34.590		
17,700.00	7,806.85	7,809.85	7,809.85	196.81	156.69	-90.00	-3,227.20	3,128.82	8,187.96	7,954.08	233.88	35.009		
17,800.00	7,806.85	7,809.85	7,809.85	198.56	156.69	-90.00	-3,227.20	3,128.82	8,282.96	8,049.16	233.80	35.428		
17,898.35	7,807.00	7,810.00	7,810.00	200.29	156.69	-90.00	-3,227.20	3,128.82	8,376.51	8,142.79	233.72	35.840		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 6-MWD													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,200.00	7,082.93	7,562.56	7,274.71	31.92	41.07	-4.44	-9,363.12	6,008.63	9,998.78	9,934.37	64.40	155.251		
7,251.07	7,134.00	7,588.49	7,300.63	32.06	41.13	146.86	-9,362.57	6,008.21	9,996.96	9,932.32	64.64	154.653		
7,300.00	7,182.93	7,630.00	7,342.13	32.19	41.23	146.86	-9,361.99	6,007.33	9,995.80	9,930.90	64.90	154.018		
7,351.07	7,234.00	7,630.00	7,342.13	32.32	41.23	146.86	-9,361.99	6,007.33	9,994.66	9,929.59	65.07	153.592		
7,400.00	7,282.87	7,661.21	7,373.32	32.47	41.31	-32.94	-9,361.73	6,006.60	9,991.97	9,926.64	65.32	152.964		
7,450.00	7,332.44	7,684.24	7,396.35	32.67	41.37	-33.29	-9,361.59	6,006.12	9,985.74	9,920.17	65.57	152.292		
7,500.00	7,381.26	7,724.00	7,436.11	32.90	41.47	-33.87	-9,361.47	6,005.37	9,976.08	9,910.22	65.86	151.464		
7,550.00	7,428.96	7,732.91	7,445.01	33.18	41.50	-34.64	-9,361.45	6,005.21	9,962.96	9,896.87	66.09	150.753		
7,600.00	7,475.17	7,770.34	7,482.43	33.48	41.59	-35.69	-9,361.43	6,004.56	9,946.52	9,880.13	66.38	149.834		
7,650.00	7,519.55	7,806.31	7,518.40	33.82	41.68	-37.02	-9,361.45	6,003.93	9,926.82	9,860.15	66.68	148.882		
7,700.00	7,561.76	7,843.29	7,555.38	34.20	41.77	-38.67	-9,361.49	6,003.30	9,904.03	9,837.06	66.97	147.890		
7,750.00	7,601.47	7,879.41	7,591.49	34.60	41.86	-40.68	-9,361.52	6,002.73	9,878.29	9,811.04	67.26	146.874		
7,800.00	7,638.39	7,912.97	7,625.05	35.04	41.95	-43.10	-9,361.53	6,002.24	9,849.83	9,782.29	67.53	145.851		
7,850.00	7,672.23	7,932.78	7,644.86	35.50	41.99	-45.94	-9,361.54	6,001.98	9,818.87	9,751.10	67.77	144.886		
7,900.00	7,702.74	7,950.98	7,663.05	35.99	42.04	-49.30	-9,361.56	6,001.77	9,785.67	9,717.68	68.00	143.917		
7,950.00	7,729.67	7,967.07	7,679.15	36.50	42.08	-53.25	-9,361.59	6,001.61	9,750.49	9,682.28	68.21	142.951		
8,000.00	7,752.84	7,980.94	7,693.02	37.04	42.11	-57.84	-9,361.62	6,001.49	9,713.59	9,645.18	68.41	141.992		
8,050.00	7,772.06	7,992.48	7,704.55	37.60	42.14	-63.13	-9,361.64	6,001.39	9,675.24	9,606.64	68.60	141.046		
8,100.00	7,787.18	8,006.00	7,718.07	38.17	42.17	-69.13	-9,361.68	6,001.30	9,635.74	9,566.96	68.78	140.094		
8,150.00	7,798.10	8,009.46	7,721.53	38.76	42.18	-75.68	-9,361.69	6,001.28	9,595.39	9,526.46	68.93	139.197		
8,200.00	7,804.72	8,015.82	7,727.89	39.36	42.20	-82.72	-9,361.71	6,001.24	9,554.49	9,485.41	69.09	138.298		
8,251.15	7,807.00	8,018.10	7,730.18	39.97	42.20	-90.12	-9,361.71	6,001.22	9,512.42	9,443.20	69.23	137.410		
8,300.00	7,807.00	8,018.24	7,730.31	40.56	42.20	-90.12	-9,361.72	6,001.22	9,472.27	9,402.91	69.36	136.571		
8,400.00	7,807.00	8,018.51	7,730.59	41.80	42.20	-90.12	-9,361.72	6,001.22	9,390.33	9,320.67	69.66	134.798		
8,500.00	7,807.00	8,018.79	7,730.86	43.08	42.20	-90.13	-9,361.72	6,001.22	9,308.75	9,238.73	70.01	132.955		
8,600.00	7,806.99	8,019.06	7,731.14	44.40	42.20	-90.13	-9,361.72	6,001.22	9,227.53	9,157.11	70.41	131.046		
8,700.00	7,806.99	8,019.34	7,731.41	45.74	42.20	-90.13	-9,361.72	6,001.22	9,146.68	9,075.82	70.86	129.076		
8,800.00	7,806.99	8,019.62	7,731.69	47.11	42.20	-90.14	-9,361.72	6,001.22	9,066.21	8,994.85	71.36	127.049		
8,900.00	7,806.99	8,019.89	7,731.97	48.51	42.21	-90.14	-9,361.72	6,001.21	8,986.14	8,914.23	71.91	124.971		
9,000.00	7,806.99	8,020.17	7,732.25	49.93	42.21	-90.14	-9,361.72	6,001.21	8,906.47	8,833.97	72.50	122.848		
9,100.00	7,806.99	8,020.45	7,732.52	51.38	42.21	-90.14	-9,361.72	6,001.21	8,827.21	8,754.07	73.14	120.685		
9,200.00	7,806.99	8,020.73	7,732.80	52.84	42.21	-90.15	-9,361.72	6,001.21	8,748.38	8,674.54	73.83	118.488		
9,300.00	7,806.98	8,021.01	7,733.08	54.32	42.21	-90.15	-9,361.72	6,001.21	8,669.98	8,595.41	74.57	116.263		
9,400.00	7,806.98	8,021.28	7,733.36	55.82	42.21	-90.15	-9,361.72	6,001.20	8,592.03	8,516.68	75.36	114.016		
9,500.00	7,806.98	8,021.56	7,733.64	57.34	42.21	-90.16	-9,361.73	6,001.20	8,514.55	8,438.36	76.19	111.753		
9,600.00	7,806.98	8,021.84	7,733.92	58.87	42.21	-90.16	-9,361.73	6,001.20	8,437.53	8,360.46	77.07	109.479		
9,700.00	7,806.98	8,022.12	7,734.20	60.41	42.21	-90.16	-9,361.73	6,001.20	8,361.01	8,283.01	77.99	107.200		
9,800.00	7,806.98	8,022.40	7,734.48	61.96	42.21	-90.17	-9,361.73	6,001.20	8,284.98	8,206.02	78.96	104.920		
9,900.00	7,806.97	8,022.68	7,734.76	63.53	42.21	-90.17	-9,361.73	6,001.20	8,209.47	8,129.49	79.98	102.645		
10,000.00	7,806.97	8,022.96	7,735.04	65.10	42.21	-90.17	-9,361.73	6,001.19	8,134.49	8,053.45	81.04	100.379		
10,100.00	7,806.97	8,023.24	7,735.32	66.69	42.21	-90.17	-9,361.73	6,001.19	8,060.05	7,977.91	82.14	98.127		
10,200.00	7,806.97	8,023.53	7,735.60	68.29	42.21	-90.18	-9,361.73	6,001.19	7,986.16	7,902.88	83.28	95.891		
10,300.00	7,806.97	8,023.81	7,735.88	69.89	42.21	-90.18	-9,361.73	6,001.19	7,912.86	7,828.39	84.47	93.676		
10,400.00	7,806.97	8,024.09	7,736.16	71.50	42.22	-90.18	-9,361.73	6,001.19	7,840.14	7,754.44	85.70	91.485		
10,500.00	7,806.97	8,024.37	7,736.45	73.12	42.22	-90.19	-9,361.73	6,001.19	7,768.03	7,681.06	86.97	89.320		
10,600.00	7,806.96	8,024.65	7,736.73	74.75	42.22	-90.19	-9,361.73	6,001.18	7,696.54	7,608.26	88.28	87.184		
10,700.00	7,806.96	8,024.94	7,737.01	76.38	42.22	-90.19	-9,361.74	6,001.18	7,625.69	7,536.06	89.63	85.080		
10,800.00	7,806.96	8,025.22	7,737.29	78.02	42.22	-90.20	-9,361.74	6,001.18	7,555.50	7,464.48	91.02	83.010		
10,900.00	7,806.96	8,025.50	7,737.58	79.66	42.22	-90.20	-9,361.74	6,001.18	7,485.99	7,393.55	92.45	80.975		
11,000.00	7,806.96	8,025.79	7,737.86	81.31	42.22	-90.20	-9,361.74	6,001.18	7,417.18	7,323.26	93.92	78.977		
11,100.00	7,806.96	8,026.07	7,738.15	82.97	42.22	-90.20	-9,361.74	6,001.17	7,349.08	7,253.66	95.42	77.017		
11,200.00	7,806.95	8,026.36	7,738.43	84.63	42.22	-90.21	-9,361.74	6,001.17	7,281.72	7,184.76	96.97	75.096		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL 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		
11,300.00	7,806.95	8,026.64	7,738.72	86.29	42.22	-90.21	-9,361.74	6,001.17	7,215.12	7,116.57	98.55	73.215		
11,400.00	7,806.95	8,026.93	7,739.00	87.96	42.22	-90.21	-9,361.74	6,001.17	7,149.30	7,049.13	100.16	71.376		
11,500.00	7,806.95	8,027.21	7,739.29	89.64	42.22	-90.22	-9,361.74	6,001.17	7,084.27	6,982.45	101.82	69.578		
11,600.00	7,806.95	8,027.50	7,739.57	91.31	42.22	-90.22	-9,361.74	6,001.17	7,020.07	6,916.56	103.51	67.822		
11,700.00	7,806.95	8,027.78	7,739.86	92.99	42.22	-90.22	-9,361.74	6,001.16	6,956.71	6,851.48	105.23	66.108		
11,800.00	7,806.95	8,028.07	7,740.14	94.68	42.22	-90.23	-9,361.74	6,001.16	6,894.22	6,787.23	106.99	64.437		
11,900.00	7,806.94	8,028.36	7,740.43	96.36	42.23	-90.23	-9,361.75	6,001.16	6,832.63	6,723.84	108.79	62.808		
12,000.00	7,806.94	8,028.64	7,740.72	98.05	42.23	-90.23	-9,361.75	6,001.16	6,771.95	6,661.33	110.61	61.222		
12,100.00	7,806.94	8,028.93	7,741.01	99.74	42.23	-90.23	-9,361.75	6,001.16	6,712.21	6,599.73	112.47	59.678		
12,200.00	7,806.94	8,029.22	7,741.29	101.44	42.23	-90.24	-9,361.75	6,001.15	6,653.43	6,539.07	114.37	58.177		
12,300.00	7,806.94	8,029.51	7,741.58	103.14	42.23	-90.24	-9,361.75	6,001.15	6,595.65	6,479.36	116.29	56.717		
12,400.00	7,806.94	8,029.80	7,741.87	104.84	42.23	-90.24	-9,361.75	6,001.15	6,538.89	6,420.65	118.24	55.300		
12,500.00	7,806.93	8,030.08	7,742.16	106.54	42.23	-90.25	-9,361.75	6,001.15	6,483.18	6,362.95	120.23	53.924		
12,600.00	7,806.93	8,030.37	7,742.45	108.25	42.23	-90.25	-9,361.75	6,001.15	6,428.53	6,306.29	122.24	52.589		
12,700.00	7,806.93	8,030.66	7,742.74	109.95	42.23	-90.25	-9,361.75	6,001.15	6,374.99	6,250.71	124.28	51.294		
12,800.00	7,806.93	8,030.95	7,743.03	111.66	42.23	-90.26	-9,361.75	6,001.14	6,322.58	6,196.23	126.35	50.040		
12,900.00	7,806.93	8,031.24	7,743.32	113.37	42.23	-90.26	-9,361.75	6,001.14	6,271.32	6,142.87	128.44	48.825		
13,000.00	7,806.93	8,031.53	7,743.61	115.09	42.23	-90.26	-9,361.76	6,001.14	6,221.25	6,090.68	130.56	47.650		
13,100.00	7,806.93	8,031.82	7,743.90	116.80	42.23	-90.27	-9,361.76	6,001.14	6,172.39	6,039.68	132.70	46.513		
13,200.00	7,806.92	8,032.12	7,744.19	118.52	42.23	-90.27	-9,361.76	6,001.14	6,124.77	5,989.90	134.87	45.413		
13,300.00	7,806.92	8,032.41	7,744.48	120.24	42.24	-90.27	-9,361.76	6,001.13	6,078.43	5,941.38	137.05	44.352		
13,400.00	7,806.92	8,032.70	7,744.77	121.96	42.24	-90.27	-9,361.76	6,001.13	6,033.39	5,894.13	139.25	43.327		
13,500.00	7,806.92	8,032.99	7,745.07	123.68	42.24	-90.28	-9,361.76	6,001.13	5,989.68	5,848.20	141.47	42.338		
13,600.00	7,806.92	8,033.28	7,745.36	125.40	42.24	-90.28	-9,361.76	6,001.13	5,947.33	5,803.62	143.71	41.384		
13,700.00	7,806.92	8,033.58	7,745.65	127.12	42.24	-90.28	-9,361.76	6,001.13	5,906.37	5,760.41	145.96	40.466		
13,800.00	7,806.91	8,033.87	7,745.94	128.85	42.24	-90.29	-9,361.76	6,001.13	5,866.82	5,718.60	148.22	39.582		
13,900.00	7,806.91	8,034.16	7,746.24	130.58	42.24	-90.29	-9,361.76	6,001.12	5,828.73	5,678.24	150.49	38.731		
14,000.00	7,806.91	8,034.46	7,746.53	132.30	42.24	-90.29	-9,361.76	6,001.12	5,792.11	5,639.34	152.77	37.914		
14,100.00	7,806.91	8,034.75	7,746.83	134.03	42.24	-90.30	-9,361.77	6,001.12	5,757.00	5,601.94	155.06	37.128		
14,200.00	7,806.91	8,035.05	7,747.12	135.76	42.24	-90.30	-9,361.77	6,001.12	5,723.41	5,566.07	157.35	36.375		
14,300.00	7,806.91	8,035.34	7,747.42	137.50	42.24	-90.30	-9,361.77	6,001.12	5,691.39	5,531.76	159.64	35.652		
14,400.00	7,806.91	8,035.64	7,747.71	139.23	42.24	-90.31	-9,361.77	6,001.11	5,660.95	5,499.03	161.92	34.961		
14,500.00	7,806.90	8,035.93	7,748.01	140.96	42.24	-90.31	-9,361.77	6,001.11	5,632.13	5,467.92	164.21	34.298		
14,600.00	7,806.90	8,036.23	7,748.30	142.70	42.24	-90.31	-9,361.77	6,001.11	5,604.94	5,438.45	166.49	33.665		
14,700.00	7,806.90	8,036.52	7,748.60	144.43	42.25	-90.31	-9,361.77	6,001.11	5,579.41	5,410.65	168.76	33.061		
14,800.00	7,806.90	8,036.82	7,748.90	146.17	42.25	-90.32	-9,361.77	6,001.11	5,555.56	5,384.54	171.02	32.485		
14,900.00	7,806.90	8,037.12	7,749.19	147.91	42.25	-90.32	-9,361.77	6,001.11	5,533.42	5,360.15	173.27	31.936		
15,000.00	7,806.90	8,037.42	7,749.49	149.64	42.25	-90.32	-9,361.77	6,001.10	5,513.00	5,337.50	175.50	31.414		
15,100.00	7,806.89	8,037.71	7,749.79	151.38	42.25	-90.33	-9,361.77	6,001.10	5,494.33	5,316.62	177.71	30.918		
15,200.00	7,806.89	8,038.01	7,750.09	153.12	42.25	-90.33	-9,361.78	6,001.10	5,477.42	5,297.52	179.90	30.447		
15,300.00	7,806.89	8,038.31	7,750.38	154.86	42.25	-90.33	-9,361.78	6,001.10	5,462.28	5,280.22	182.06	30.002		
15,400.00	7,806.89	8,038.61	7,750.68	156.60	42.25	-90.34	-9,361.78	6,001.10	5,448.95	5,264.74	184.20	29.581		
15,500.00	7,806.89	8,038.91	7,750.98	158.35	42.25	-90.34	-9,361.78	6,001.09	5,437.41	5,251.10	186.31	29.184		
15,600.00	7,806.89	8,039.21	7,751.28	160.09	42.25	-90.34	-9,361.78	6,001.09	5,427.70	5,239.31	188.39	28.811		
15,700.00	7,806.89	8,039.51	7,751.58	161.83	42.25	-90.35	-9,361.78	6,001.09	5,419.81	5,229.38	190.44	28.460		
15,800.00	7,806.88	8,039.81	7,751.88	163.57	42.25	-90.35	-9,361.78	6,001.09	5,413.76	5,221.32	192.45	28.131		
15,900.00	7,806.88	8,040.11	7,752.18	165.32	42.25	-90.35	-9,361.78	6,001.09	5,409.56	5,215.14	194.42	27.825		
16,000.00	7,806.88	8,040.41	7,752.48	167.06	42.25	-90.36	-9,361.78	6,001.08	5,407.20	5,210.85	196.35	27.539		
16,077.70	7,806.88	8,040.64	7,752.72	168.42	42.25	-90.36	-9,361.78	6,001.08	5,406.64	5,208.82	197.82	27.332 CC		
16,100.00	7,806.88	8,040.71	7,752.78	168.81	42.25	-90.36	-9,361.78	6,001.08	5,406.68	5,208.45	198.23	27.274		
16,200.00	7,806.88	8,041.01	7,753.09	170.56	42.26	-90.36	-9,361.78	6,001.08	5,408.02	5,207.95	200.07	27.030 ES		
16,300.00	7,806.88	8,041.31	7,753.39	172.30	42.26	-90.37	-9,361.79	6,001.08	5,411.21	5,209.34	201.87	26.805		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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	
16,400.00	7,806.87	8,041.62	7,753.69	174.05	42.26	-90.37	-9,361.79	6,001.08	5,416.24	5,212.62	203.62	26.600	
16,500.00	7,806.87	8,041.92	7,753.99	175.80	42.26	-90.37	-9,361.79	6,001.08	5,423.10	5,217.79	205.31	26.414	
16,600.00	7,806.87	8,042.22	7,754.30	177.55	42.26	-90.38	-9,361.79	6,001.07	5,431.81	5,224.85	206.96	26.246	
16,700.00	7,806.87	8,042.52	7,754.60	179.30	42.26	-90.38	-9,361.79	6,001.07	5,442.33	5,233.78	208.55	26.096	
16,800.00	7,806.87	8,042.83	7,754.90	181.04	42.26	-90.38	-9,361.79	6,001.07	5,454.67	5,244.58	210.09	25.963	
16,900.00	7,806.87	8,043.13	7,755.21	182.79	42.26	-90.38	-9,361.79	6,001.07	5,468.81	5,257.23	211.58	25.848	
17,000.00	7,806.87	8,043.44	7,755.51	184.54	42.26	-90.39	-9,361.79	6,001.07	5,484.74	5,271.73	213.01	25.749	
17,100.00	7,806.86	8,043.74	7,755.82	186.30	42.26	-90.39	-9,361.79	6,001.06	5,502.44	5,288.05	214.38	25.666	
17,200.00	7,806.86	8,044.05	7,756.12	188.05	42.26	-90.39	-9,361.79	6,001.06	5,521.89	5,306.19	215.70	25.600	
17,300.00	7,806.86	8,044.35	7,756.43	189.80	42.26	-90.40	-9,361.80	6,001.06	5,543.08	5,326.12	216.96	25.548	
17,400.00	7,806.86	8,044.66	7,756.73	191.55	42.26	-90.40	-9,361.80	6,001.06	5,565.98	5,347.82	218.17	25.512	
17,500.00	7,806.86	8,044.97	7,757.04	193.30	42.27	-90.40	-9,361.80	6,001.06	5,590.59	5,371.27	219.32	25.491	
17,600.00	7,806.86	8,045.27	7,757.35	195.06	42.27	-90.41	-9,361.80	6,001.05	5,616.86	5,396.45	220.41	25.484 SF	
17,700.00	7,806.85	8,045.58	7,757.65	196.81	42.27	-90.41	-9,361.80	6,001.05	5,644.78	5,423.34	221.44	25.491	
17,800.00	7,806.85	8,045.89	7,757.96	198.56	42.27	-90.41	-9,361.80	6,001.05	5,674.33	5,451.91	222.42	25.512	
17,898.35	7,807.00	8,046.34	7,758.41	200.29	42.27	-90.42	-9,361.80	6,001.05	5,704.94	5,481.61	223.33	25.545	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
8,200.00	7,804.72	7,769.72	7,769.72	39.36	155.88	-77.60	-10,730.69	4,346.12	9,966.41	9,781.59	184.82	53.925		
8,251.15	7,807.00	7,772.00	7,772.00	39.97	155.93	-90.00	-10,730.69	4,346.12	9,919.09	9,734.18	184.90	53.644		
8,300.00	7,807.00	7,772.00	7,772.00	40.56	155.93	-90.00	-10,730.69	4,346.12	9,873.86	9,688.93	184.94	53.390		
8,400.00	7,807.00	7,772.00	7,772.00	41.80	155.93	-90.00	-10,730.69	4,346.12	9,781.40	9,596.38	185.02	52.866		
8,500.00	7,807.00	7,772.00	7,772.00	43.08	155.93	-90.00	-10,730.69	4,346.12	9,689.09	9,503.96	185.13	52.335		
8,600.00	7,806.99	7,771.99	7,771.99	44.40	155.93	-90.00	-10,730.69	4,346.12	9,596.93	9,411.66	185.27	51.800		
8,700.00	7,806.99	7,771.99	7,771.99	45.74	155.93	-90.00	-10,730.69	4,346.12	9,504.93	9,319.51	185.43	51.259		
8,800.00	7,806.99	7,771.99	7,771.99	47.11	155.93	-90.00	-10,730.69	4,346.12	9,413.10	9,227.48	185.62	50.712		
8,900.00	7,806.99	7,771.99	7,771.99	48.51	155.93	-90.00	-10,730.69	4,346.12	9,321.43	9,135.60	185.83	50.160		
9,000.00	7,806.99	7,771.99	7,771.99	49.93	155.93	-90.00	-10,730.69	4,346.12	9,229.94	9,043.86	186.08	49.603		
9,100.00	7,806.99	7,771.99	7,771.99	51.38	155.93	-90.00	-10,730.69	4,346.12	9,138.62	8,952.27	186.35	49.040		
9,200.00	7,806.99	7,771.99	7,771.99	52.84	155.93	-90.00	-10,730.69	4,346.12	9,047.49	8,860.83	186.66	48.471		
9,300.00	7,806.98	7,771.98	7,771.98	54.32	155.93	-90.00	-10,730.69	4,346.12	8,956.55	8,769.55	186.99	47.898		
9,400.00	7,806.98	7,771.98	7,771.98	55.82	155.93	-90.00	-10,730.69	4,346.12	8,865.80	8,678.44	187.36	47.319		
9,500.00	7,806.98	7,771.98	7,771.98	57.34	155.93	-90.00	-10,730.69	4,346.12	8,775.25	8,587.49	187.76	46.736		
9,600.00	7,806.98	7,771.98	7,771.98	58.87	155.93	-90.00	-10,730.69	4,346.12	8,684.91	8,496.71	188.20	46.148		
9,700.00	7,806.98	7,771.98	7,771.98	60.41	155.93	-90.00	-10,730.69	4,346.12	8,594.79	8,406.12	188.67	45.555		
9,800.00	7,806.98	7,771.98	7,771.98	61.96	155.93	-90.00	-10,730.69	4,346.12	8,504.88	8,315.71	189.17	44.958		
9,900.00	7,806.97	7,771.97	7,771.97	63.53	155.93	-90.00	-10,730.69	4,346.12	8,415.20	8,225.49	189.72	44.357		
10,000.00	7,806.97	7,771.97	7,771.97	65.10	155.93	-90.00	-10,730.69	4,346.12	8,325.76	8,135.47	190.29	43.752		
10,100.00	7,806.97	7,771.97	7,771.97	66.69	155.93	-90.00	-10,730.69	4,346.12	8,236.56	8,045.65	190.91	43.144		
10,200.00	7,806.97	7,771.97	7,771.97	68.29	155.93	-90.00	-10,730.69	4,346.12	8,147.61	7,956.05	191.56	42.533		
10,300.00	7,806.97	7,771.97	7,771.97	69.89	155.93	-90.00	-10,730.69	4,346.12	8,058.92	7,866.67	192.25	41.918		
10,400.00	7,806.97	7,771.97	7,771.97	71.50	155.93	-90.00	-10,730.69	4,346.12	7,970.50	7,777.52	192.98	41.302		
10,500.00	7,806.97	7,771.97	7,771.97	73.12	155.93	-90.00	-10,730.69	4,346.12	7,882.36	7,688.61	193.75	40.683		
10,600.00	7,806.96	7,771.96	7,771.96	74.75	155.93	-90.00	-10,730.69	4,346.12	7,794.50	7,599.94	194.56	40.062		
10,700.00	7,806.96	7,771.96	7,771.96	76.38	155.93	-90.00	-10,730.69	4,346.12	7,706.94	7,511.53	195.41	39.440		
10,800.00	7,806.96	7,771.96	7,771.96	78.02	155.93	-90.00	-10,730.69	4,346.12	7,619.68	7,423.38	196.30	38.816		
10,900.00	7,806.96	7,771.96	7,771.96	79.66	155.93	-90.00	-10,730.69	4,346.12	7,532.74	7,335.51	197.23	38.192		
11,000.00	7,806.96	7,771.96	7,771.96	81.31	155.93	-90.00	-10,730.69	4,346.12	7,446.13	7,247.92	198.21	37.567		
11,100.00	7,806.96	7,771.96	7,771.96	82.97	155.93	-90.00	-10,730.69	4,346.12	7,359.86	7,160.63	199.22	36.943		
11,200.00	7,806.95	7,771.95	7,771.95	84.63	155.93	-90.00	-10,730.69	4,346.12	7,273.94	7,073.65	200.28	36.319		
11,300.00	7,806.95	7,771.95	7,771.95	86.29	155.93	-90.00	-10,730.69	4,346.12	7,188.38	6,987.00	201.38	35.695		
11,400.00	7,806.95	7,771.95	7,771.95	87.96	155.93	-90.00	-10,730.69	4,346.12	7,103.20	6,900.67	202.53	35.072		
11,500.00	7,806.95	7,771.95	7,771.95	89.64	155.93	-90.00	-10,730.69	4,346.12	7,018.41	6,814.69	203.72	34.451		
11,600.00	7,806.95	7,771.95	7,771.95	91.31	155.93	-90.00	-10,730.69	4,346.12	6,934.03	6,729.07	204.95	33.832		
11,700.00	7,806.95	7,771.95	7,771.95	92.99	155.93	-90.00	-10,730.69	4,346.12	6,850.07	6,643.83	206.24	33.215		
11,800.00	7,806.95	7,771.95	7,771.95	94.68	155.93	-90.00	-10,730.69	4,346.12	6,766.54	6,558.98	207.56	32.600		
11,900.00	7,806.94	7,771.94	7,771.94	96.36	155.93	-90.00	-10,730.69	4,346.12	6,683.47	6,474.53	208.94	31.988		
12,000.00	7,806.94	7,771.94	7,771.94	98.05	155.93	-90.00	-10,730.69	4,346.12	6,600.86	6,390.50	210.36	31.379		
12,100.00	7,806.94	7,771.94	7,771.94	99.74	155.93	-90.00	-10,730.69	4,346.12	6,518.74	6,306.92	211.83	30.774		
12,200.00	7,806.94	7,771.94	7,771.94	101.44	155.93	-90.00	-10,730.69	4,346.12	6,437.13	6,223.79	213.34	30.173		
12,300.00	7,806.94	7,771.94	7,771.94	103.14	155.93	-90.00	-10,730.69	4,346.12	6,356.05	6,141.14	214.91	29.575		
12,400.00	7,806.94	7,771.94	7,771.94	104.84	155.93	-90.00	-10,730.69	4,346.12	6,275.51	6,058.98	216.53	28.982		
12,500.00	7,806.93	7,771.93	7,771.93	106.54	155.93	-90.00	-10,730.69	4,346.12	6,195.53	5,977.34	218.20	28.394		
12,600.00	7,806.93	7,771.93	7,771.93	108.25	155.93	-90.00	-10,730.69	4,346.12	6,116.15	5,896.24	219.91	27.811		
12,700.00	7,806.93	7,771.93	7,771.93	109.95	155.93	-90.00	-10,730.69	4,346.12	6,037.38	5,815.69	221.69	27.234		
12,800.00	7,806.93	7,771.93	7,771.93	111.66	155.93	-90.00	-10,730.69	4,346.12	5,959.25	5,735.74	223.51	26.662		
12,900.00	7,806.93	7,771.93	7,771.93	113.37	155.93	-90.00	-10,730.69	4,346.12	5,881.77	5,656.39	225.39	26.096		
13,000.00	7,806.93	7,771.93	7,771.93	115.09	155.93	-90.00	-10,730.69	4,346.12	5,804.99	5,577.67	227.32	25.537		
13,100.00	7,806.93	7,771.93	7,771.93	116.80	155.93	-90.00	-10,730.69	4,346.12	5,728.92	5,499.62	229.31	24.984		
13,200.00	7,806.92	7,771.92	7,771.92	118.52	155.93	-90.00	-10,730.69	4,346.12	5,653.60	5,422.26	231.35	24.438		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
13,300.00	7,806.92	7,771.92	7,771.92	120.24	155.93	-90.00	-10,730.69	4,346.12	5,579.06	5,345.61	233.44	23.899		
13,400.00	7,806.92	7,771.92	7,771.92	121.96	155.93	-90.00	-10,730.69	4,346.12	5,505.32	5,269.72	235.60	23.367		
13,500.00	7,806.92	7,771.92	7,771.92	123.68	155.93	-90.00	-10,730.69	4,346.12	5,432.42	5,194.61	237.81	22.844		
13,600.00	7,806.92	7,771.92	7,771.92	125.40	155.93	-90.00	-10,730.69	4,346.12	5,360.40	5,120.32	240.07	22.328		
13,700.00	7,806.92	7,771.92	7,771.92	127.12	155.93	-90.00	-10,730.69	4,346.12	5,289.28	5,046.88	242.40	21.821		
13,800.00	7,806.91	7,771.91	7,771.91	128.85	155.93	-90.00	-10,730.69	4,346.12	5,219.11	4,974.33	244.78	21.322		
13,900.00	7,806.91	7,771.91	7,771.91	130.58	155.93	-90.00	-10,730.69	4,346.12	5,149.93	4,902.71	247.22	20.832		
14,000.00	7,806.91	7,771.91	7,771.91	132.30	155.93	-90.00	-10,730.69	4,346.12	5,081.78	4,832.06	249.71	20.350		
14,100.00	7,806.91	7,771.91	7,771.91	134.03	155.93	-90.00	-10,730.69	4,346.12	5,014.69	4,762.42	252.27	19.879		
14,200.00	7,806.91	7,771.91	7,771.91	135.76	155.93	-90.00	-10,730.69	4,346.12	4,948.71	4,693.84	254.87	19.416		
14,300.00	7,806.91	7,771.91	7,771.91	137.50	155.93	-90.00	-10,730.69	4,346.12	4,883.89	4,626.36	257.54	18.964		
14,400.00	7,806.91	7,771.91	7,771.91	139.23	155.93	-90.00	-10,730.69	4,346.12	4,820.28	4,560.02	260.25	18.521		
14,500.00	7,806.90	7,771.90	7,771.90	140.96	155.93	-90.00	-10,730.69	4,346.12	4,757.91	4,494.89	263.02	18.089		
14,600.00	7,806.90	7,771.90	7,771.90	142.70	155.93	-90.00	-10,730.69	4,346.12	4,696.85	4,431.00	265.85	17.668		
14,700.00	7,806.90	7,771.90	7,771.90	144.43	155.93	-90.00	-10,730.69	4,346.12	4,637.14	4,368.42	268.72	17.257		
14,800.00	7,806.90	7,771.90	7,771.90	146.17	155.93	-90.00	-10,730.69	4,346.12	4,578.83	4,307.19	271.64	16.857		
14,900.00	7,806.90	7,771.90	7,771.90	147.91	155.92	-90.00	-10,730.69	4,346.12	4,521.98	4,247.39	274.60	16.468		
15,000.00	7,806.90	7,771.90	7,771.90	149.64	155.92	-90.00	-10,730.69	4,346.12	4,466.65	4,189.05	277.60	16.090		
15,100.00	7,806.89	7,771.89	7,771.89	151.38	155.92	-90.00	-10,730.69	4,346.12	4,412.90	4,132.25	280.65	15.724		
15,200.00	7,806.89	7,771.89	7,771.89	153.12	155.92	-90.00	-10,730.69	4,346.12	4,360.77	4,077.04	283.72	15.370		
15,300.00	7,806.89	7,771.89	7,771.89	154.86	155.92	-90.00	-10,730.69	4,346.12	4,310.33	4,023.50	286.83	15.027		
15,400.00	7,806.89	7,771.89	7,771.89	156.60	155.92	-90.00	-10,730.69	4,346.12	4,261.64	3,971.68	289.96	14.697		
15,500.00	7,806.89	7,771.89	7,771.89	158.35	155.92	-90.00	-10,730.69	4,346.12	4,214.77	3,921.65	293.12	14.379		
15,600.00	7,806.89	7,771.89	7,771.89	160.09	155.92	-90.00	-10,730.69	4,346.12	4,169.76	3,873.48	296.29	14.073		
15,700.00	7,806.89	7,771.89	7,771.89	161.83	155.92	-90.00	-10,730.69	4,346.12	4,126.69	3,827.23	299.46	13.780		
15,800.00	7,806.88	7,771.88	7,771.88	163.57	155.92	-90.00	-10,730.69	4,346.12	4,085.61	3,782.97	302.64	13.500		
15,900.00	7,806.88	7,771.88	7,771.88	165.32	155.92	-90.00	-10,730.69	4,346.12	4,046.59	3,740.77	305.81	13.232		
16,000.00	7,806.88	7,771.88	7,771.88	167.06	155.92	-90.00	-10,730.69	4,346.12	4,009.68	3,700.71	308.97	12.977		
16,100.00	7,806.88	7,771.88	7,771.88	168.81	155.92	-90.00	-10,730.69	4,346.12	3,974.95	3,662.83	312.11	12.736		
16,200.00	7,806.88	7,771.88	7,771.88	170.56	155.92	-90.00	-10,730.69	4,346.12	3,942.44	3,627.22	315.23	12.507		
16,300.00	7,806.88	7,771.88	7,771.88	172.30	155.92	-90.00	-10,730.69	4,346.12	3,912.22	3,593.93	318.30	12.291		
16,400.00	7,806.87	7,771.87	7,771.87	174.05	155.92	-90.00	-10,730.69	4,346.12	3,884.35	3,563.02	321.33	12.088		
16,500.00	7,806.87	7,771.87	7,771.87	175.80	155.92	-90.00	-10,730.69	4,346.12	3,858.86	3,534.56	324.30	11.899		
16,600.00	7,806.87	7,771.87	7,771.87	177.55	155.92	-90.00	-10,730.69	4,346.12	3,835.81	3,508.60	327.21	11.723		
16,700.00	7,806.87	7,771.87	7,771.87	179.30	155.92	-90.00	-10,730.69	4,346.12	3,815.25	3,485.20	330.04	11.560		
16,800.00	7,806.87	7,771.87	7,771.87	181.04	155.92	-90.00	-10,730.69	4,346.12	3,797.21	3,464.41	332.80	11.410		
16,900.00	7,806.87	7,771.87	7,771.87	182.79	155.92	-90.00	-10,730.69	4,346.12	3,781.72	3,446.26	335.46	11.273		
17,000.00	7,806.87	7,771.87	7,771.87	184.54	155.92	-90.00	-10,730.69	4,346.12	3,768.83	3,430.80	338.03	11.149		
17,100.00	7,806.86	7,771.86	7,771.86	186.30	155.92	-90.00	-10,730.69	4,346.12	3,758.55	3,418.06	340.49	11.039		
17,200.00	7,806.86	7,771.86	7,771.86	188.05	155.92	-90.00	-10,730.69	4,346.12	3,750.92	3,408.08	342.84	10.941		
17,300.00	7,806.86	7,771.86	7,771.86	189.80	155.92	-90.00	-10,730.69	4,346.12	3,745.94	3,400.87	345.07	10.856		
17,400.00	7,806.86	7,771.86	7,771.86	191.55	155.92	-90.00	-10,730.69	4,346.12	3,743.62	3,396.45	347.17	10.783		
17,436.73	7,806.86	7,771.86	7,771.86	192.19	155.92	-90.00	-10,730.69	4,346.12	3,743.44	3,395.53	347.91	10.760 CC		
17,500.00	7,806.86	7,771.86	7,771.86	193.30	155.92	-90.00	-10,730.69	4,346.12	3,743.98	3,394.83	349.14	10.723 ES		
17,600.00	7,806.86	7,771.86	7,771.86	195.06	155.92	-90.00	-10,730.69	4,346.12	3,747.00	3,396.02	350.98	10.676		
17,700.00	7,806.85	7,771.85	7,771.85	196.81	155.92	-90.00	-10,730.69	4,346.12	3,752.69	3,400.01	352.68	10.641		
17,800.00	7,806.85	7,771.85	7,771.85	198.56	155.92	-90.00	-10,730.69	4,346.12	3,761.03	3,406.79	354.24	10.617		
17,898.35	7,807.00	7,772.00	7,772.00	200.29	155.93	-90.00	-10,730.69	4,346.12	3,771.79	3,416.16	355.63	10.606 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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - ABND VERT ASHER 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	9.00	9.00	0.00	0.11	-174.48	-7,377.56	-712.82	7,411.92					
100.00	100.00	109.00	109.00	0.13	1.40	-174.48	-7,377.56	-712.82	7,411.92	7,410.38	1.54	4,816.944		
200.00	200.00	209.00	209.00	0.49	3.67	-174.48	-7,377.56	-712.82	7,411.92	7,407.75	4.17	1,778.368		
300.00	300.00	309.00	309.00	0.85	5.75	-174.48	-7,377.56	-712.82	7,411.92	7,405.32	6.60	1,122.786		
400.00	400.00	409.00	409.00	1.21	7.79	-174.48	-7,377.56	-712.82	7,411.92	7,402.92	9.00	823.470		
500.00	500.00	509.00	509.00	1.57	9.82	-174.48	-7,377.56	-712.82	7,411.92	7,400.53	11.39	650.865		
600.00	600.00	609.00	609.00	1.93	11.84	-174.48	-7,377.56	-712.82	7,411.92	7,398.15	13.77	538.315		
700.00	700.00	709.00	709.00	2.29	13.86	-174.48	-7,377.56	-712.82	7,411.92	7,395.77	16.15	459.047		
800.00	800.00	809.00	809.00	2.64	15.88	-174.48	-7,377.56	-712.82	7,411.92	7,393.40	18.52	400.173		
900.00	900.00	909.00	909.00	3.00	17.89	-174.48	-7,377.56	-712.82	7,411.92	7,391.02	20.90	354.707		
1,000.00	1,000.00	1,009.00	1,009.00	3.36	19.91	-174.48	-7,377.56	-712.82	7,411.92	7,388.65	23.27	318.531		
1,100.00	1,100.00	1,109.00	1,109.00	3.72	21.92	-174.48	-7,377.56	-712.82	7,411.92	7,386.28	25.64	289.059		
1,200.00	1,200.00	1,209.00	1,209.00	4.08	23.94	-174.48	-7,377.56	-712.82	7,411.92	7,383.90	28.01	264.584		
1,300.00	1,300.00	1,309.00	1,309.00	4.44	25.95	-174.48	-7,377.56	-712.82	7,411.92	7,381.53	30.39	243.933		
1,400.00	1,399.98	1,408.98	1,408.98	4.78	27.96	34.25	-7,377.56	-712.82	7,410.47	7,377.74	32.74	226.347		
1,500.00	1,499.84	1,508.84	1,508.84	5.11	29.97	34.32	-7,377.56	-712.82	7,406.15	7,371.07	35.08	211.128		
1,600.00	1,599.45	1,608.45	1,608.45	5.44	31.98	34.44	-7,377.56	-712.82	7,398.95	7,361.53	37.42	197.734		
1,700.00	1,698.70	1,707.70	1,707.70	5.79	33.97	34.61	-7,377.56	-712.82	7,388.88	7,349.12	39.76	185.854		
1,800.00	1,797.47	1,806.47	1,806.47	6.15	35.96	34.82	-7,377.56	-712.82	7,375.97	7,333.88	42.09	175.239		
1,900.00	1,895.62	1,904.62	1,904.62	6.53	37.93	35.09	-7,377.56	-712.82	7,360.24	7,315.82	44.42	165.694		
1,912.93	1,908.27	1,917.27	1,917.27	6.58	38.19	35.13	-7,377.56	-712.82	7,358.00	7,313.28	44.72	164.523		
2,000.00	1,993.35	2,002.35	2,002.35	6.93	39.90	35.21	-7,377.56	-712.82	7,342.77	7,296.02	46.75	157.069		
2,100.00	2,091.07	2,100.07	2,100.07	7.34	41.87	35.31	-7,377.56	-712.82	7,325.30	7,276.22	49.08	149.247		
2,200.00	2,188.79	2,202.21	2,197.79	7.77	43.92	35.40	-7,377.56	-712.82	7,307.85	7,256.34	51.51	141.872		
2,300.00	2,286.51	2,304.49	2,295.51	8.20	45.98	35.50	-7,377.56	-712.82	7,290.42	7,236.48	53.95	135.141		
2,400.00	2,384.23	2,406.77	2,393.23	8.65	48.04	35.59	-7,377.56	-712.82	7,273.01	7,216.63	56.39	128.981		
2,500.00	2,481.95	2,509.05	2,490.95	9.10	50.09	35.69	-7,377.56	-712.82	7,255.63	7,196.79	58.83	123.323		
2,600.00	2,579.67	2,588.67	2,588.67	9.56	51.70	35.79	-7,377.56	-712.82	7,238.26	7,177.43	60.83	118.995		
2,700.00	2,677.39	2,686.39	2,686.39	10.02	53.66	35.89	-7,377.56	-712.82	7,220.91	7,157.72	63.19	114.274		
2,800.00	2,775.11	2,784.11	2,784.11	10.49	55.63	35.98	-7,377.56	-712.82	7,203.58	7,138.03	65.55	109.888		
2,900.00	2,872.83	2,881.83	2,881.83	10.96	57.59	36.08	-7,377.56	-712.82	7,186.28	7,118.36	67.92	105.803		
3,000.00	2,970.55	2,979.55	2,979.55	11.44	59.56	36.18	-7,377.56	-712.82	7,168.99	7,098.70	70.29	101.991		
3,100.00	3,068.27	3,077.27	3,077.27	11.92	61.52	36.28	-7,377.56	-712.82	7,151.73	7,079.07	72.66	98.424		
3,200.00	3,165.99	3,174.99	3,174.99	12.40	63.49	36.38	-7,377.56	-712.82	7,134.49	7,059.45	75.04	95.080		
3,300.00	3,263.71	3,272.71	3,272.71	12.88	65.45	36.48	-7,377.56	-712.82	7,117.27	7,039.85	77.41	91.939		
3,400.00	3,361.43	3,370.43	3,370.43	13.37	67.42	36.58	-7,377.56	-712.82	7,100.07	7,020.28	79.79	88.983		
3,500.00	3,459.15	3,468.15	3,468.15	13.86	69.38	36.68	-7,377.56	-712.82	7,082.89	7,000.72	82.17	86.198		
3,600.00	3,556.87	3,565.87	3,565.87	14.35	71.35	36.79	-7,377.56	-712.82	7,065.74	6,981.18	84.55	83.567		
3,700.00	3,654.59	3,663.59	3,663.59	14.84	73.31	36.89	-7,377.56	-712.82	7,048.60	6,961.67	86.93	81.080		
3,800.00	3,752.31	3,761.31	3,761.31	15.34	75.28	36.99	-7,377.56	-712.82	7,031.49	6,942.17	89.32	78.724		
3,900.00	3,850.03	3,859.03	3,859.03	15.83	77.25	37.10	-7,377.56	-712.82	7,014.40	6,922.70	91.70	76.490		
4,000.00	3,947.75	3,956.75	3,956.75	16.33	79.21	37.20	-7,377.56	-712.82	6,997.34	6,903.25	94.09	74.368		
4,100.00	4,045.47	4,054.47	4,054.47	16.83	81.18	37.30	-7,377.56	-712.82	6,980.30	6,883.82	96.48	72.351		
4,200.00	4,143.19	4,152.19	4,152.19	17.32	83.14	37.41	-7,377.56	-712.82	6,963.28	6,864.41	98.87	70.431		
4,300.00	4,240.91	4,249.91	4,249.91	17.82	85.11	37.51	-7,377.56	-712.82	6,946.28	6,845.02	101.26	68.600		
4,400.00	4,338.63	4,347.63	4,347.63	18.32	87.07	37.62	-7,377.56	-712.82	6,929.31	6,825.66	103.65	66.854		
4,500.00	4,436.35	4,445.35	4,445.35	18.82	89.04	37.73	-7,377.56	-712.82	6,912.36	6,806.32	106.04	65.186		
4,600.00	4,534.07	4,543.07	4,543.07	19.33	91.00	37.83	-7,377.56	-712.82	6,895.44	6,787.00	108.43	63.591		
4,700.00	4,631.79	4,640.79	4,640.79	19.83	92.97	37.94	-7,377.56	-712.82	6,878.53	6,767.71	110.83	62.065		
4,800.00	4,729.51	4,738.51	4,738.51	20.33	94.93	38.05	-7,377.56	-712.82	6,861.66	6,748.43	113.22	60.603		
4,900.00	4,827.23	4,836.23	4,836.23	20.83	96.90	38.16	-7,377.56	-712.82	6,844.80	6,729.18	115.62	59.201		
5,000.00	4,924.95	4,933.95	4,933.95	21.34	98.86	38.27	-7,377.56	-712.82	6,827.97	6,709.96	118.02	57.856		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	5,031.67	5,031.67	21.84	100.83	38.38	-7,377.56	-712.82	6,811.17	6,690.76	120.41	56.564		
5,200.00	5,120.39	5,129.39	5,129.39	22.35	102.79	38.49	-7,377.56	-712.82	6,794.39	6,671.58	122.81	55.323		
5,300.00	5,218.11	5,227.11	5,227.11	22.85	104.76	38.60	-7,377.56	-712.82	6,777.64	6,652.42	125.21	54.129		
5,400.00	5,315.83	5,324.83	5,324.83	23.36	106.72	38.71	-7,377.56	-712.82	6,760.91	6,633.29	127.61	52.979		
5,500.00	5,413.55	5,422.55	5,422.55	23.86	108.69	38.82	-7,377.56	-712.82	6,744.20	6,614.19	130.02	51.872		
5,600.00	5,511.27	5,520.27	5,520.27	24.37	110.65	38.93	-7,377.56	-712.82	6,727.53	6,595.11	132.42	50.806		
5,700.00	5,608.99	5,617.99	5,617.99	24.88	112.62	39.05	-7,377.56	-712.82	6,710.87	6,576.05	134.82	49.777		
5,800.00	5,706.71	5,625.00	5,625.00	25.38	112.76	39.05	-7,377.56	-712.82	6,694.86	6,559.45	135.41	49.441		
5,900.00	5,804.43	5,625.00	5,625.00	25.89	112.76	39.05	-7,377.56	-712.82	6,680.30	6,544.46	135.84	49.177		
6,000.00	5,902.15	5,625.00	5,625.00	26.40	112.76	39.05	-7,377.56	-712.82	6,667.21	6,530.97	136.24	48.936		
6,100.00	5,999.87	5,625.00	5,625.00	26.91	112.76	39.05	-7,377.56	-712.82	6,655.60	6,518.98	136.62	48.717		
6,200.00	6,097.59	5,625.00	5,625.00	27.42	112.76	39.05	-7,377.56	-712.82	6,645.48	6,508.51	136.97	48.519		
6,300.00	6,195.30	5,625.00	5,625.00	27.92	112.76	39.05	-7,377.56	-712.82	6,636.84	6,499.56	137.28	48.344		
6,400.00	6,293.02	5,625.00	5,625.00	28.43	112.76	39.05	-7,377.56	-712.82	6,629.70	6,492.13	137.57	48.190		
6,500.00	6,390.74	5,625.00	5,625.00	28.94	112.76	39.05	-7,377.56	-712.82	6,624.06	6,486.23	137.83	48.059		
6,600.00	6,488.46	5,625.00	5,625.00	29.45	112.76	39.05	-7,377.56	-712.82	6,619.93	6,481.87	138.06	47.949		
6,638.14	6,525.73	5,625.00	5,625.00	29.64	112.76	39.05	-7,377.56	-712.82	6,618.76	6,480.61	138.14	47.912		
6,700.00	6,586.32	5,625.00	5,625.00	29.95	112.76	39.04	-7,377.56	-712.82	6,617.83	6,479.57	138.26	47.865		
6,704.49	6,590.73	5,625.00	5,625.00	29.97	112.76	39.04	-7,377.56	-712.82	6,617.83	6,479.56	138.27	47.863		
6,800.00	6,684.79	5,625.00	5,625.00	30.42	112.76	39.07	-7,377.56	-712.82	6,619.75	6,481.35	138.40	47.829		
6,900.00	6,783.81	5,625.00	5,625.00	30.85	112.76	39.14	-7,377.56	-712.82	6,625.89	6,487.39	138.50	47.841		
7,000.00	6,883.25	5,625.00	5,625.00	31.24	112.76	39.28	-7,377.56	-712.82	6,636.22	6,497.68	138.54	47.902		
7,100.00	6,983.00	5,625.00	5,625.00	31.60	112.76	39.46	-7,377.56	-712.82	6,650.72	6,512.19	138.52	48.011		
7,200.00	7,082.93	5,625.00	5,625.00	31.92	112.76	39.70	-7,377.56	-712.82	6,669.33	6,530.87	138.46	48.168		
7,251.07	7,134.00	5,625.00	5,625.00	32.06	112.76	-168.86	-7,377.56	-712.82	6,680.41	6,542.00	138.41	48.267		
7,300.00	7,182.93	5,625.00	5,625.00	32.19	112.76	-168.86	-7,377.56	-712.82	6,691.70	6,553.36	138.34	48.372		
7,351.07	7,234.00	5,625.00	5,625.00	32.32	112.76	-168.86	-7,377.56	-712.82	6,703.84	6,565.58	138.26	48.486		
7,400.00	7,282.87	5,625.00	5,625.00	32.47	112.76	11.28	-7,377.56	-712.82	6,713.82	6,575.63	138.19	48.583		
7,450.00	7,332.44	5,625.00	5,625.00	32.67	112.76	11.16	-7,377.56	-712.82	6,720.21	6,582.08	138.13	48.652		
7,500.00	7,381.26	5,625.00	5,625.00	32.90	112.76	11.11	-7,377.56	-712.82	6,722.70	6,584.63	138.07	48.691		
7,550.00	7,428.96	5,625.00	5,625.00	33.18	112.76	11.14	-7,377.56	-712.82	6,721.28	6,583.27	138.01	48.700		
7,600.00	7,475.17	5,625.00	5,625.00	33.48	112.76	11.24	-7,377.56	-712.82	6,715.97	6,578.01	137.96	48.680		
7,650.00	7,519.55	5,625.00	5,625.00	33.82	112.76	11.43	-7,377.56	-712.82	6,706.79	6,568.87	137.92	48.630		
7,700.00	7,561.76	5,625.00	5,625.00	34.20	112.76	11.70	-7,377.56	-712.82	6,693.79	6,555.92	137.87	48.551		
7,750.00	7,601.47	5,625.00	5,625.00	34.60	112.76	12.06	-7,377.56	-712.82	6,677.06	6,539.23	137.83	48.445		
7,800.00	7,638.39	5,625.00	5,625.00	35.04	112.76	12.54	-7,377.56	-712.82	6,656.69	6,518.90	137.79	48.311		
7,850.00	7,672.23	5,625.00	5,625.00	35.50	112.76	13.14	-7,377.56	-712.82	6,632.81	6,495.06	137.75	48.151		
7,900.00	7,702.74	5,625.00	5,625.00	35.99	112.76	13.90	-7,377.56	-712.82	6,605.55	6,467.84	137.72	47.965		
7,950.00	7,729.67	5,625.00	5,625.00	36.50	112.76	14.86	-7,377.56	-712.82	6,575.10	6,437.41	137.69	47.755		
8,000.00	7,752.84	5,625.00	5,625.00	37.04	112.76	16.06	-7,377.56	-712.82	6,541.63	6,403.97	137.66	47.521		
8,050.00	7,772.06	5,625.00	5,625.00	37.60	112.76	17.58	-7,377.56	-712.82	6,505.35	6,367.72	137.64	47.265		
8,100.00	7,787.18	5,625.00	5,625.00	38.17	112.76	19.55	-7,377.56	-712.82	6,466.51	6,328.89	137.62	46.988		
8,150.00	7,798.10	5,625.00	5,625.00	38.76	112.76	22.13	-7,377.56	-712.82	6,425.34	6,287.73	137.61	46.692		
8,200.00	7,804.72	5,625.00	5,625.00	39.36	112.76	25.62	-7,377.56	-712.82	6,382.12	6,244.51	137.61	46.378		
8,251.15	7,807.00	5,625.00	5,625.00	39.97	112.76	30.59	-7,377.56	-712.82	6,336.09	6,198.47	137.62	46.039		
8,300.00	7,807.00	5,625.00	5,625.00	40.56	112.76	30.59	-7,377.56	-712.82	6,291.38	6,153.74	137.64	45.708		
8,400.00	7,807.00	5,625.00	5,625.00	41.80	112.76	30.59	-7,377.56	-712.82	6,200.07	6,062.39	137.67	45.034		
8,500.00	7,807.00	5,625.00	5,625.00	43.08	112.76	30.59	-7,377.56	-712.82	6,109.02	5,971.31	137.71	44.362		
8,600.00	7,806.99	5,625.00	5,625.00	44.40	112.76	30.59	-7,377.56	-712.82	6,018.25	5,880.51	137.75	43.690		
8,700.00	7,806.99	5,625.00	5,625.00	45.74	112.76	30.59	-7,377.56	-712.82	5,927.79	5,790.00	137.79	43.020		
8,800.00	7,806.99	5,625.00	5,625.00	47.11	112.76	30.59	-7,377.56	-712.82	5,837.63	5,699.80	137.84	42.352		
8,900.00	7,806.99	5,625.00	5,625.00	48.51	112.76	30.59	-7,377.56	-712.82	5,747.81	5,609.92	137.89	41.685		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors 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					
9,000.00	7,806.99	5,625.00	5,625.00	49.93	112.76	30.59	-7,377.56	-712.82	5,658.32	5,520.38	137.94	41.021					
9,100.00	7,806.99	5,625.00	5,625.00	51.38	112.76	30.59	-7,377.56	-712.82	5,569.19	5,431.19	138.00	40.358					
9,200.00	7,806.99	5,625.00	5,625.00	52.84	112.76	30.59	-7,377.56	-712.82	5,480.43	5,342.38	138.06	39.697					
9,300.00	7,806.98	5,625.00	5,625.00	54.32	112.76	30.59	-7,377.56	-712.82	5,392.07	5,253.95	138.12	39.039					
9,400.00	7,806.98	5,625.00	5,625.00	55.82	112.76	30.59	-7,377.56	-712.82	5,304.12	5,165.94	138.19	38.384					
9,500.00	7,806.98	5,625.00	5,625.00	57.34	112.76	30.59	-7,377.56	-712.82	5,216.61	5,078.35	138.26	37.731					
9,600.00	7,806.98	5,625.00	5,625.00	58.87	112.76	30.59	-7,377.56	-712.82	5,129.55	4,991.22	138.33	37.082					
9,700.00	7,806.98	5,625.00	5,625.00	60.41	112.76	30.59	-7,377.56	-712.82	5,042.97	4,904.57	138.41	36.436					
9,800.00	7,806.98	5,625.00	5,625.00	61.96	112.76	30.59	-7,377.56	-712.82	4,956.90	4,818.42	138.49	35.794					
9,900.00	7,806.97	5,625.00	5,625.00	63.53	112.76	30.59	-7,377.56	-712.82	4,871.36	4,732.80	138.57	35.155					
10,000.00	7,806.97	5,625.00	5,625.00	65.10	112.76	30.59	-7,377.56	-712.82	4,786.38	4,647.73	138.65	34.521					
10,100.00	7,806.97	5,625.00	5,625.00	66.69	112.76	30.59	-7,377.56	-712.82	4,701.99	4,563.26	138.74	33.892					
10,200.00	7,806.97	5,625.00	5,625.00	68.29	112.76	30.59	-7,377.56	-712.82	4,618.23	4,479.41	138.82	33.267					
10,300.00	7,806.97	5,625.00	5,625.00	69.89	112.76	30.59	-7,377.56	-712.82	4,535.12	4,396.21	138.91	32.648					
10,400.00	7,806.97	5,625.00	5,625.00	71.50	112.76	30.59	-7,377.56	-712.82	4,452.71	4,313.71	139.00	32.034					
10,500.00	7,806.97	5,625.00	5,625.00	73.12	112.76	30.59	-7,377.56	-712.82	4,371.03	4,231.94	139.09	31.427					
10,600.00	7,806.96	5,625.00	5,625.00	74.75	112.76	30.59	-7,377.56	-712.82	4,290.13	4,150.95	139.17	30.826					
10,700.00	7,806.96	5,625.00	5,625.00	76.38	112.76	30.59	-7,377.56	-712.82	4,210.05	4,070.79	139.26	30.232					
10,800.00	7,806.96	5,625.00	5,625.00	78.02	112.76	30.59	-7,377.56	-712.82	4,130.83	3,991.49	139.34	29.646					
10,900.00	7,806.96	5,625.00	5,625.00	79.66	112.76	30.59	-7,377.56	-712.82	4,052.54	3,913.12	139.42	29.068					
11,000.00	7,806.96	5,625.00	5,625.00	81.31	112.76	30.59	-7,377.56	-712.82	3,975.22	3,835.73	139.49	28.498					
11,100.00	7,806.96	5,625.00	5,625.00	82.97	112.76	30.59	-7,377.56	-712.82	3,898.93	3,759.37	139.56	27.938					
11,200.00	7,806.95	5,625.00	5,625.00	84.63	112.76	30.59	-7,377.56	-712.82	3,823.73	3,684.12	139.61	27.388					
11,300.00	7,806.95	5,625.00	5,625.00	86.29	112.76	30.59	-7,377.56	-712.82	3,749.70	3,610.04	139.66	26.848					
11,400.00	7,806.95	5,625.00	5,625.00	87.96	112.76	30.59	-7,377.56	-712.82	3,676.89	3,537.19	139.70	26.320					
11,500.00	7,806.95	5,625.00	5,625.00	89.64	112.76	30.59	-7,377.56	-712.82	3,605.39	3,465.67	139.72	25.804					
11,600.00	7,806.95	5,625.00	5,625.00	91.31	112.76	30.59	-7,377.56	-712.82	3,535.27	3,395.54	139.73	25.301					
11,700.00	7,806.95	5,625.00	5,625.00	92.99	112.76	30.59	-7,377.56	-712.82	3,466.61	3,326.89	139.72	24.811					
11,800.00	7,806.95	5,625.00	5,625.00	94.68	112.76	30.59	-7,377.56	-712.82	3,399.51	3,259.82	139.69	24.335					
11,900.00	7,806.94	5,625.00	5,625.00	96.36	112.76	30.59	-7,377.56	-712.82	3,334.06	3,194.42	139.64	23.875					
12,000.00	7,806.94	5,625.00	5,625.00	98.05	112.76	30.59	-7,377.56	-712.82	3,270.36	3,130.79	139.57	23.431					
12,100.00	7,806.94	5,625.00	5,625.00	99.74	112.76	30.59	-7,377.56	-712.82	3,208.51	3,069.04	139.48	23.004					
12,200.00	7,806.94	5,625.00	5,625.00	101.44	112.76	30.59	-7,377.56	-712.82	3,148.63	3,009.27	139.35	22.595					
12,300.00	7,806.94	5,625.00	5,625.00	103.14	112.76	30.59	-7,377.56	-712.82	3,090.82	2,951.61	139.20	22.204					
12,400.00	7,806.94	5,625.00	5,625.00	104.84	112.76	30.59	-7,377.56	-712.82	3,035.20	2,896.18	139.02	21.832					
12,500.00	7,806.93	5,625.00	5,625.00	106.54	112.76	30.59	-7,377.56	-712.82	2,981.90	2,843.08	138.82	21.481					
12,600.00	7,806.93	5,625.00	5,625.00	108.25	112.76	30.59	-7,377.56	-712.82	2,931.04	2,792.46	138.59	21.150					
12,700.00	7,806.93	5,625.00	5,625.00	109.95	112.76	30.59	-7,377.56	-712.82	2,882.76	2,744.43	138.33	20.840					
12,800.00	7,806.93	5,625.00	5,625.00	111.66	112.76	30.59	-7,377.56	-712.82	2,837.18	2,699.13	138.05	20.551					
12,900.00	7,806.93	5,625.00	5,625.00	113.37	112.76	30.59	-7,377.56	-712.82	2,794.44	2,656.67	137.76	20.284					
13,000.00	7,806.93	5,625.00	5,625.00	115.09	112.76	30.59	-7,377.56	-712.82	2,754.67	2,617.20	137.47	20.039					
13,100.00	7,806.93	5,625.00	5,625.00	116.80	112.76	30.59	-7,377.56	-712.82	2,717.99	2,580.81	137.18	19.814					
13,200.00	7,806.92	5,625.00	5,625.00	118.52	112.76	30.59	-7,377.56	-712.82	2,684.54	2,547.64	136.90	19.609					
13,300.00	7,806.92	5,625.00	5,625.00	120.24	112.76	30.59	-7,377.56	-712.82	2,654.44	2,517.78	136.66	19.424					
13,400.00	7,806.92	5,625.00	5,625.00	121.96	112.76	30.59	-7,377.56	-712.82	2,627.80	2,491.34	136.46	19.257					
13,500.00	7,806.92	5,625.00	5,625.00	123.68	112.76	30.59	-7,377.56	-712.82	2,604.73	2,468.40	136.33	19.106					
13,600.00	7,806.92	5,625.00	5,625.00	125.40	112.76	30.59	-7,377.56	-712.82	2,585.33	2,449.04	136.29	18.970					
13,700.00	7,806.92	5,625.00	5,625.00	127.12	112.76	30.59	-7,377.56	-712.82	2,569.67	2,433.33	136.34	18.847					
13,800.00	7,806.91	5,625.00	5,625.00	128.85	112.76	30.59	-7,377.56	-712.82	2,557.83	2,421.31	136.52	18.735					
13,900.00	7,806.91	5,625.00	5,625.00	130.58	112.76	30.59	-7,377.56	-712.82	2,549.86	2,413.02	136.84	18.634					
14,000.00	7,806.91	5,625.00	5,625.00	132.30	112.76	30.59	-7,377.56	-712.82	2,545.80	2,408.50	137.30	18.542					
14,053.55	7,806.91	5,625.00	5,625.00	133.23	112.76	30.59	-7,377.56	-712.82	2,545.23	2,407.63	137.60	18.497	CC, 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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	7,806.91	5,625.00	5,625.00	134.03	112.76	30.59	-7,377.56	-712.82	2,545.66	2,407.76	137.90	18.460		
14,200.00	7,806.91	5,625.00	5,625.00	135.76	112.76	30.59	-7,377.56	-712.82	2,549.44	2,410.79	138.65	18.387		
14,300.00	7,806.91	5,625.00	5,625.00	137.50	112.76	30.59	-7,377.56	-712.82	2,557.14	2,417.60	139.54	18.326		
14,400.00	7,806.91	5,625.00	5,625.00	139.23	112.76	30.59	-7,377.56	-712.82	2,568.71	2,428.16	140.55	18.277		
14,500.00	7,806.90	5,625.00	5,625.00	140.96	112.76	30.59	-7,377.56	-712.82	2,584.09	2,442.44	141.65	18.242		
14,600.00	7,806.90	5,625.00	5,625.00	142.70	112.76	30.59	-7,377.56	-712.82	2,603.23	2,460.39	142.84	18.225 SF		
14,700.00	7,806.90	5,625.00	5,625.00	144.43	112.76	30.59	-7,377.56	-712.82	2,626.05	2,481.96	144.09	18.225		
14,800.00	7,806.90	5,625.00	5,625.00	146.17	112.76	30.59	-7,377.56	-712.82	2,652.43	2,507.07	145.37	18.246		
14,900.00	7,806.90	5,625.00	5,625.00	147.91	112.76	30.59	-7,377.56	-712.82	2,682.29	2,535.63	146.66	18.289		
15,000.00	7,806.90	5,625.00	5,625.00	149.64	112.76	30.59	-7,377.56	-712.82	2,715.51	2,567.56	147.95	18.355		
15,100.00	7,806.89	5,625.00	5,625.00	151.38	112.76	30.59	-7,377.56	-712.82	2,751.96	2,602.75	149.21	18.444		
15,200.00	7,806.89	5,625.00	5,625.00	153.12	112.76	30.59	-7,377.56	-712.82	2,791.52	2,641.09	150.43	18.557		
15,300.00	7,806.89	5,625.00	5,625.00	154.86	112.76	30.59	-7,377.56	-712.82	2,834.05	2,682.45	151.60	18.694		
15,400.00	7,806.89	5,625.00	5,625.00	156.60	112.76	30.59	-7,377.56	-712.82	2,879.44	2,726.72	152.72	18.855		
15,500.00	7,806.89	5,625.00	5,625.00	158.35	112.76	30.59	-7,377.56	-712.82	2,927.53	2,773.76	153.77	19.039		
15,600.00	7,806.89	5,625.00	5,625.00	160.09	112.76	30.59	-7,377.56	-712.82	2,978.21	2,823.46	154.75	19.245		
15,700.00	7,806.89	5,625.00	5,625.00	161.83	112.76	30.59	-7,377.56	-712.82	3,031.34	2,875.67	155.67	19.473		
15,800.00	7,806.88	5,625.00	5,625.00	163.57	112.76	30.59	-7,377.56	-712.82	3,086.80	2,930.28	156.51	19.722		
15,900.00	7,806.88	5,625.00	5,625.00	165.32	112.76	30.59	-7,377.56	-712.82	3,144.46	2,987.17	157.29	19.992		
16,000.00	7,806.88	5,625.00	5,625.00	167.06	112.76	30.59	-7,377.56	-712.82	3,204.20	3,046.20	158.00	20.280		
16,100.00	7,806.88	5,625.00	5,625.00	168.81	112.76	30.59	-7,377.56	-712.82	3,265.91	3,107.27	158.64	20.586		
16,200.00	7,806.88	5,625.00	5,625.00	170.56	112.76	30.59	-7,377.56	-712.82	3,329.49	3,170.26	159.23	20.910		
16,300.00	7,806.88	5,625.00	5,625.00	172.30	112.76	30.59	-7,377.56	-712.82	3,394.82	3,235.06	159.75	21.250		
16,400.00	7,806.87	5,625.00	5,625.00	174.05	112.76	30.59	-7,377.56	-712.82	3,461.80	3,301.57	160.23	21.606		
16,500.00	7,806.87	5,625.00	5,625.00	175.80	112.76	30.59	-7,377.56	-712.82	3,530.35	3,369.70	160.65	21.976		
16,600.00	7,806.87	5,625.00	5,625.00	177.55	112.76	30.59	-7,377.56	-712.82	3,600.37	3,439.34	161.02	22.359		
16,700.00	7,806.87	5,625.00	5,625.00	179.30	112.76	30.59	-7,377.56	-712.82	3,671.78	3,510.42	161.35	22.756		
16,800.00	7,806.87	5,625.00	5,625.00	181.04	112.76	30.59	-7,377.56	-712.82	3,744.49	3,582.85	161.65	23.165		
16,900.00	7,806.87	5,625.00	5,625.00	182.79	112.76	30.59	-7,377.56	-712.82	3,818.44	3,656.54	161.90	23.585		
17,000.00	7,806.87	5,625.00	5,625.00	184.54	112.76	30.59	-7,377.56	-712.82	3,893.56	3,731.44	162.12	24.016		
17,100.00	7,806.86	5,625.00	5,625.00	186.30	112.76	30.59	-7,377.56	-712.82	3,969.77	3,807.46	162.32	24.457		
17,200.00	7,806.86	5,625.00	5,625.00	188.05	112.76	30.59	-7,377.56	-712.82	4,047.02	3,884.54	162.48	24.908		
17,300.00	7,806.86	5,625.00	5,625.00	189.80	112.76	30.59	-7,377.56	-712.82	4,125.25	3,962.63	162.62	25.367		
17,400.00	7,806.86	5,625.00	5,625.00	191.55	112.76	30.59	-7,377.56	-712.82	4,204.40	4,041.66	162.74	25.835		
17,500.00	7,806.86	5,625.00	5,625.00	193.30	112.76	30.59	-7,377.56	-712.82	4,284.42	4,121.58	162.84	26.311		
17,600.00	7,806.86	5,625.00	5,625.00	195.06	112.76	30.59	-7,377.56	-712.82	4,365.27	4,202.35	162.92	26.794		
17,700.00	7,806.85	5,625.00	5,625.00	196.81	112.76	30.59	-7,377.56	-712.82	4,446.89	4,283.91	162.98	27.284		
17,800.00	7,806.85	5,625.00	5,625.00	198.56	112.76	30.59	-7,377.56	-712.82	4,529.25	4,366.22	163.03	27.781		
17,898.35	7,807.00	5,625.00	5,625.00	200.29	112.76	30.59	-7,377.56	-712.82	4,611.01	4,447.94	163.07	28.276		

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	164.70	-8,175.60	2,235.97	8,476.01					
100.00	100.00	47.00	47.00	0.13	0.56	164.70	-8,175.60	2,235.97	8,475.85	8,475.15	0.70	N/A		
200.00	200.00	147.00	147.00	0.49	2.27	164.70	-8,175.60	2,235.97	8,475.85	8,473.08	2.77	3,062.906		
300.00	300.00	247.00	247.00	0.85	4.46	164.70	-8,175.60	2,235.97	8,475.85	8,470.53	5.32	1,594.387		
400.00	400.00	347.00	347.00	1.21	6.53	164.70	-8,175.60	2,235.97	8,475.85	8,468.11	7.74	1,095.656		
500.00	500.00	447.00	447.00	1.57	8.56	164.70	-8,175.60	2,235.97	8,475.85	8,465.72	10.13	836.679		
600.00	600.00	547.00	547.00	1.93	10.59	164.70	-8,175.60	2,235.97	8,475.85	8,463.33	12.51	677.259		
700.00	700.00	647.00	647.00	2.29	12.61	164.70	-8,175.60	2,235.97	8,475.85	8,460.95	14.89	569.057		
800.00	800.00	747.00	747.00	2.64	14.63	164.70	-8,175.60	2,235.97	8,475.85	8,458.58	17.27	490.748		
900.00	900.00	847.00	847.00	3.00	16.64	164.70	-8,175.60	2,235.97	8,475.85	8,456.20	19.65	431.423		
1,000.00	1,000.00	947.00	947.00	3.36	18.66	164.70	-8,175.60	2,235.97	8,475.85	8,453.83	22.02	384.916		
1,100.00	1,100.00	1,047.00	1,047.00	3.72	20.67	164.70	-8,175.60	2,235.97	8,475.85	8,451.46	24.39	347.472		
1,200.00	1,200.00	1,147.00	1,147.00	4.08	22.69	164.70	-8,175.60	2,235.97	8,475.85	8,449.08	26.77	316.675		
1,300.00	1,300.00	1,247.00	1,247.00	4.44	24.70	164.70	-8,175.60	2,235.97	8,475.85	8,446.71	29.14	290.897		
1,400.00	1,399.98	1,346.98	1,346.98	4.78	26.71	13.42	-8,175.60	2,235.97	8,474.15	8,442.66	31.49	269.094		
1,500.00	1,499.84	1,446.84	1,446.84	5.11	28.72	13.45	-8,175.60	2,235.97	8,469.06	8,435.23	33.83	250.334		
1,600.00	1,599.45	1,546.45	1,546.45	5.44	30.73	13.50	-8,175.60	2,235.97	8,460.58	8,424.41	36.17	233.914		
1,700.00	1,698.70	1,645.70	1,645.70	5.79	32.73	13.58	-8,175.60	2,235.97	8,448.73	8,410.23	38.50	219.422		
1,800.00	1,797.47	1,744.47	1,744.47	6.15	34.71	13.68	-8,175.60	2,235.97	8,433.52	8,392.69	40.83	206.538		
1,900.00	1,895.62	1,842.62	1,842.62	6.53	36.69	13.80	-8,175.60	2,235.97	8,414.96	8,371.81	43.15	195.008		
1,912.93	1,908.27	1,855.27	1,855.27	6.58	36.94	13.81	-8,175.60	2,235.97	8,412.32	8,368.87	43.45	193.594		
2,000.00	1,993.35	1,940.35	1,940.35	6.93	38.65	13.84	-8,175.60	2,235.97	8,394.35	8,348.88	45.46	184.637		
2,100.00	2,091.07	2,038.07	2,038.07	7.34	40.62	13.88	-8,175.60	2,235.97	8,373.71	8,325.93	47.78	175.265		
2,200.00	2,188.79	2,135.79	2,135.79	7.77	42.59	13.91	-8,175.60	2,235.97	8,353.07	8,302.97	50.09	166.746		
2,300.00	2,286.51	2,233.51	2,233.51	8.20	44.55	13.95	-8,175.60	2,235.97	8,332.43	8,280.02	52.42	158.969		
2,400.00	2,384.23	2,331.23	2,331.23	8.65	46.52	13.98	-8,175.60	2,235.97	8,311.80	8,257.06	54.74	151.844		
2,500.00	2,481.95	2,428.95	2,428.95	9.10	48.48	14.02	-8,175.60	2,235.97	8,291.17	8,234.11	57.07	145.292		
2,600.00	2,579.67	2,526.67	2,526.67	9.56	50.45	14.06	-8,175.60	2,235.97	8,270.55	8,211.15	59.39	139.248		
2,700.00	2,677.39	2,624.39	2,624.39	10.02	52.41	14.09	-8,175.60	2,235.97	8,249.92	8,188.20	61.73	133.656		
2,800.00	2,775.11	2,722.11	2,722.11	10.49	54.38	14.13	-8,175.60	2,235.97	8,229.31	8,165.25	64.06	128.467		
2,900.00	2,872.83	2,819.83	2,819.83	10.96	56.34	14.16	-8,175.60	2,235.97	8,208.69	8,142.30	66.39	123.639		
3,000.00	2,970.55	2,917.55	2,917.55	11.44	58.31	14.20	-8,175.60	2,235.97	8,188.08	8,119.35	68.73	119.137		
3,100.00	3,068.27	3,015.27	3,015.27	11.92	60.28	14.24	-8,175.60	2,235.97	8,167.46	8,096.40	71.07	114.929		
3,200.00	3,165.99	3,112.99	3,112.99	12.40	62.24	14.27	-8,175.60	2,235.97	8,146.86	8,073.45	73.40	110.986		
3,300.00	3,263.71	3,210.71	3,210.71	12.88	64.21	14.31	-8,175.60	2,235.97	8,126.25	8,050.51	75.74	107.286		
3,400.00	3,361.43	3,308.43	3,308.43	13.37	66.17	14.35	-8,175.60	2,235.97	8,105.65	8,027.57	78.08	103.806		
3,500.00	3,459.15	3,406.15	3,406.15	13.86	68.14	14.38	-8,175.60	2,235.97	8,085.06	8,004.63	80.43	100.528		
3,600.00	3,556.87	3,503.87	3,503.87	14.35	70.10	14.42	-8,175.60	2,235.97	8,064.46	7,981.69	82.77	97.434		
3,700.00	3,654.59	3,601.59	3,601.59	14.84	72.07	14.46	-8,175.60	2,235.97	8,043.87	7,958.76	85.11	94.509		
3,800.00	3,752.31	3,700.69	3,699.31	15.34	74.06	14.50	-8,175.60	2,235.97	8,023.28	7,935.80	87.48	91.711		
3,900.00	3,850.03	3,802.97	3,797.03	15.83	76.12	14.53	-8,175.60	2,235.97	8,002.70	7,912.78	89.92	88.997		
4,000.00	3,947.75	3,905.25	3,894.75	16.33	78.18	14.57	-8,175.60	2,235.97	7,982.12	7,889.76	92.36	86.426		
4,100.00	4,045.47	4,002.53	3,992.47	16.83	80.23	14.61	-8,175.60	2,235.97	7,961.54	7,866.75	94.80	83.986		
4,200.00	4,143.19	4,109.81	4,090.19	17.32	82.29	14.65	-8,175.60	2,235.97	7,940.97	7,843.73	97.23	81.668		
4,300.00	4,240.91	4,187.91	4,187.91	17.82	83.86	14.69	-8,175.60	2,235.97	7,920.40	7,821.21	99.19	79.853		
4,400.00	4,338.63	4,285.63	4,285.63	18.32	85.82	14.73	-8,175.60	2,235.97	7,899.83	7,798.30	101.54	77.804		
4,500.00	4,436.35	4,383.35	4,383.35	18.82	87.79	14.77	-8,175.60	2,235.97	7,879.27	7,775.38	103.88	75.847		
4,600.00	4,534.07	4,481.07	4,481.07	19.33	89.76	14.81	-8,175.60	2,235.97	7,858.71	7,752.48	106.23	73.977		
4,700.00	4,631.79	4,578.79	4,578.79	19.83	91.72	14.85	-8,175.60	2,235.97	7,838.15	7,729.57	108.58	72.187		
4,800.00	4,729.51	4,676.51	4,676.51	20.33	93.69	14.89	-8,175.60	2,235.97	7,817.60	7,706.67	110.93	70.472		
4,900.00	4,827.23	4,774.23	4,774.23	20.83	95.65	14.93	-8,175.60	2,235.97	7,797.05	7,683.77	113.28	68.829		
5,000.00	4,924.95	4,871.95	4,871.95	21.34	97.62	14.97	-8,175.60	2,235.97	7,776.51	7,660.87	115.63	67.252		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - ABND VERT HULSTROM G UNIT 1 - Wellbore #1 - Design #1													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.00	5,022.67	4,969.67	4,969.67	21.84	99.58	15.01	-8,175.60	2,235.97	7,755.96	7,637.98	117.98	65.738		
5,200.00	5,120.39	5,067.39	5,067.39	22.35	101.55	15.05	-8,175.60	2,235.97	7,735.43	7,615.09	120.33	64.283		
5,300.00	5,218.11	5,165.11	5,165.11	22.85	103.51	15.09	-8,175.60	2,235.97	7,714.89	7,592.21	122.69	62.883		
5,400.00	5,315.83	5,262.83	5,262.83	23.36	105.48	15.13	-8,175.60	2,235.97	7,694.36	7,569.33	125.04	61.536		
5,500.00	5,413.55	5,360.55	5,360.55	23.86	107.44	15.17	-8,175.60	2,235.97	7,673.84	7,546.45	127.39	60.239		
5,600.00	5,511.27	5,458.27	5,458.27	24.37	109.41	15.21	-8,175.60	2,235.97	7,653.31	7,523.57	129.74	58.988		
5,700.00	5,608.99	5,555.99	5,555.99	24.88	111.37	15.25	-8,175.60	2,235.97	7,632.80	7,500.70	132.10	57.782		
5,800.00	5,706.71	5,653.71	5,653.71	25.38	113.34	15.30	-8,175.60	2,235.97	7,612.28	7,477.83	134.45	56.618		
5,900.00	5,804.43	5,751.43	5,751.43	25.89	115.30	15.34	-8,175.60	2,235.97	7,591.77	7,454.97	136.80	55.494		
6,000.00	5,902.15	5,849.15	5,849.15	26.40	117.27	15.38	-8,175.60	2,235.97	7,571.26	7,432.11	139.16	54.408		
6,100.00	5,999.87	5,946.87	5,946.87	26.91	119.23	15.42	-8,175.60	2,235.97	7,550.76	7,409.25	141.51	53.358		
6,200.00	6,097.59	6,044.59	6,044.59	27.42	121.20	15.47	-8,175.60	2,235.97	7,530.26	7,386.40	143.87	52.342		
6,300.00	6,195.30	6,142.30	6,142.30	27.92	123.16	15.51	-8,175.60	2,235.97	7,509.77	7,363.55	146.22	51.359		
6,400.00	6,293.02	6,240.02	6,240.02	28.43	125.13	15.55	-8,175.60	2,235.97	7,489.28	7,340.70	148.58	50.407		
6,500.00	6,390.74	6,337.74	6,337.74	28.94	127.09	15.60	-8,175.60	2,235.97	7,468.79	7,317.86	150.93	49.485		
6,600.00	6,488.46	6,435.46	6,435.46	29.45	129.06	15.64	-8,175.60	2,235.97	7,448.31	7,295.02	153.29	48.591		
6,638.14	6,525.73	6,472.73	6,472.73	29.64	129.81	15.66	-8,175.60	2,235.97	7,440.50	7,286.31	154.19	48.257		
6,700.00	6,586.32	6,533.32	6,533.32	29.95	131.03	15.62	-8,175.60	2,235.97	7,428.46	7,272.82	155.64	47.727		
6,800.00	6,684.79	6,631.79	6,631.79	30.42	133.01	15.56	-8,175.60	2,235.97	7,411.68	7,253.68	158.01	46.908		
6,900.00	6,783.81	6,730.81	6,730.81	30.85	135.00	15.52	-8,175.60	2,235.97	7,398.23	7,237.86	160.37	46.133		
7,000.00	6,883.25	6,830.25	6,830.25	31.24	137.00	15.48	-8,175.60	2,235.97	7,388.12	7,225.39	162.73	45.401		
7,100.00	6,983.00	6,930.00	6,930.00	31.60	139.00	15.46	-8,175.60	2,235.97	7,381.36	7,216.27	165.09	44.711		
7,200.00	7,082.93	7,029.93	7,029.93	31.92	141.01	15.45	-8,175.60	2,235.97	7,377.96	7,210.52	167.44	44.063		
7,251.07	7,134.00	7,081.00	7,081.00	32.06	142.04	166.75	-8,175.60	2,235.97	7,377.52	7,208.89	168.63	43.749		
7,300.00	7,182.93	7,129.93	7,129.93	32.19	143.03	166.75	-8,175.60	2,235.97	7,377.52	7,207.75	169.77	43.456		
7,351.07	7,234.00	7,181.00	7,181.00	32.32	144.05	166.75	-8,175.60	2,235.97	7,377.52	7,206.56	170.95	43.155		
7,400.00	7,282.87	7,229.87	7,229.87	32.47	145.03	-12.96	-8,175.60	2,235.97	7,375.48	7,203.39	172.10	42.856		
7,450.00	7,332.44	7,279.44	7,279.44	32.67	146.03	-13.12	-8,175.60	2,235.97	7,369.22	7,195.95	173.27	42.531		
7,500.00	7,381.26	7,328.26	7,328.26	32.90	147.01	-13.38	-8,175.60	2,235.97	7,358.76	7,184.33	174.43	42.188		
7,550.00	7,428.96	7,375.96	7,375.96	33.18	147.97	-13.76	-8,175.60	2,235.97	7,344.20	7,168.63	175.57	41.831		
7,600.00	7,475.17	7,422.17	7,422.17	33.48	148.90	-14.28	-8,175.60	2,235.97	7,325.65	7,148.97	176.67	41.464		
7,650.00	7,519.55	7,466.55	7,466.55	33.82	149.79	-14.96	-8,175.60	2,235.97	7,303.24	7,125.50	177.74	41.090		
7,700.00	7,561.76	7,508.76	7,508.76	34.20	150.64	-15.83	-8,175.60	2,235.97	7,277.16	7,098.41	178.75	40.711		
7,750.00	7,601.47	7,548.47	7,548.47	34.60	151.44	-16.93	-8,175.60	2,235.97	7,247.60	7,067.89	179.71	40.330		
7,800.00	7,638.39	7,585.39	7,585.39	35.04	152.18	-18.33	-8,175.60	2,235.97	7,214.79	7,034.20	180.59	39.950		
7,850.00	7,672.23	7,619.23	7,619.23	35.50	152.86	-20.11	-8,175.60	2,235.97	7,178.98	6,997.58	181.41	39.574		
7,900.00	7,702.74	7,649.74	7,649.74	35.99	153.48	-22.42	-8,175.60	2,235.97	7,140.45	6,958.32	182.13	39.204		
7,950.00	7,729.67	7,676.67	7,676.67	36.50	154.02	-25.45	-8,175.60	2,235.97	7,099.49	6,916.72	182.77	38.843		
8,000.00	7,752.84	7,700.16	7,699.84	37.04	154.49	-29.52	-8,175.60	2,235.97	7,056.42	6,873.09	183.33	38.491		
8,050.00	7,772.06	7,719.06	7,719.06	37.60	154.87	-35.13	-8,175.60	2,235.97	7,011.56	6,827.79	183.77	38.155		
8,100.00	7,787.18	7,734.18	7,734.18	38.17	155.18	-43.06	-8,175.60	2,235.97	6,965.26	6,781.15	184.12	37.831		
8,150.00	7,798.10	7,745.10	7,745.10	38.76	155.40	-54.41	-8,175.60	2,235.97	6,917.88	6,733.52	184.36	37.524		
8,200.00	7,804.72	7,751.72	7,751.72	39.36	155.53	-70.17	-8,175.60	2,235.97	6,869.78	6,685.27	184.50	37.234		
8,251.15	7,807.00	7,754.00	7,754.00	39.97	155.58	-90.00	-8,175.60	2,235.97	6,820.20	6,635.66	184.55	36.957		
8,300.00	7,807.00	7,754.00	7,754.00	40.56	155.58	-90.00	-8,175.60	2,235.97	6,772.81	6,588.27	184.53	36.702		
8,400.00	7,807.00	7,754.00	7,754.00	41.80	155.58	-90.00	-8,175.60	2,235.97	6,675.86	6,491.34	184.52	36.180		
8,500.00	7,807.00	7,754.00	7,754.00	43.08	155.58	-90.00	-8,175.60	2,235.97	6,579.00	6,394.48	184.52	35.655		
8,600.00	7,806.99	7,753.99	7,753.99	44.40	155.58	-90.00	-8,175.60	2,235.97	6,482.24	6,297.72	184.52	35.130		
8,700.00	7,806.99	7,753.99	7,753.99	45.74	155.57	-90.00	-8,175.60	2,235.97	6,385.58	6,201.03	184.54	34.602		
8,800.00	7,806.99	7,753.99	7,753.99	47.11	155.57	-90.00	-8,175.60	2,235.97	6,289.02	6,104.44	184.58	34.073		
8,900.00	7,806.99	7,753.99	7,753.99	48.51	155.57	-90.00	-8,175.60	2,235.97	6,192.57	6,007.95	184.63	33.541		
9,000.00	7,806.99	7,753.99	7,753.99	49.93	155.57	-90.00	-8,175.60	2,235.97	6,096.24	5,911.55	184.69	33.008		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,753.99	7,753.99	51.38	155.57	-90.00	-8,175.60	2,235.97	6,000.03	5,815.26	184.77	32.473		
9,200.00	7,806.99	7,753.99	7,753.99	52.84	155.57	-90.00	-8,175.60	2,235.97	5,903.94	5,719.07	184.87	31.936		
9,300.00	7,806.98	7,753.98	7,753.98	54.32	155.57	-90.00	-8,175.60	2,235.97	5,807.98	5,622.99	184.99	31.396		
9,400.00	7,806.98	7,753.98	7,753.98	55.82	155.57	-90.00	-8,175.60	2,235.97	5,712.17	5,527.04	185.13	30.854		
9,500.00	7,806.98	7,753.98	7,753.98	57.34	155.57	-90.00	-8,175.60	2,235.97	5,616.50	5,431.20	185.30	30.311		
9,600.00	7,806.98	7,753.98	7,753.98	58.87	155.57	-90.00	-8,175.60	2,235.97	5,520.98	5,335.49	185.49	29.765		
9,700.00	7,806.98	7,753.98	7,753.98	60.41	155.57	-90.00	-8,175.60	2,235.97	5,425.62	5,239.92	185.71	29.216		
9,800.00	7,806.98	7,753.98	7,753.98	61.96	155.57	-90.00	-8,175.60	2,235.97	5,330.44	5,144.49	185.95	28.666		
9,900.00	7,806.97	7,753.97	7,753.97	63.53	155.57	-90.00	-8,175.60	2,235.97	5,235.43	5,049.20	186.23	28.113		
10,000.00	7,806.97	7,753.97	7,753.97	65.10	155.57	-90.00	-8,175.60	2,235.97	5,140.62	4,954.08	186.54	27.558		
10,100.00	7,806.97	7,753.97	7,753.97	66.69	155.57	-90.00	-8,175.60	2,235.97	5,046.00	4,859.11	186.89	27.000		
10,200.00	7,806.97	7,753.97	7,753.97	68.29	155.57	-90.00	-8,175.60	2,235.97	4,951.60	4,764.32	187.27	26.440		
10,300.00	7,806.97	7,753.97	7,753.97	69.89	155.57	-90.00	-8,175.60	2,235.97	4,857.41	4,669.71	187.70	25.879		
10,400.00	7,806.97	7,753.97	7,753.97	71.50	155.57	-90.00	-8,175.60	2,235.97	4,763.47	4,575.30	188.17	25.315		
10,500.00	7,806.97	7,753.97	7,753.97	73.12	155.57	-90.00	-8,175.60	2,235.97	4,669.78	4,481.09	188.69	24.749		
10,600.00	7,806.96	7,753.96	7,753.96	74.75	155.57	-90.00	-8,175.60	2,235.97	4,576.35	4,387.10	189.25	24.181		
10,700.00	7,806.96	7,753.96	7,753.96	76.38	155.57	-90.00	-8,175.60	2,235.97	4,483.21	4,293.34	189.87	23.612		
10,800.00	7,806.96	7,753.96	7,753.96	78.02	155.57	-90.00	-8,175.60	2,235.97	4,390.37	4,199.82	190.55	23.041		
10,900.00	7,806.96	7,753.96	7,753.96	79.66	155.57	-90.00	-8,175.60	2,235.97	4,297.85	4,106.57	191.28	22.468		
11,000.00	7,806.96	7,753.96	7,753.96	81.31	155.57	-90.00	-8,175.60	2,235.97	4,205.68	4,013.59	192.08	21.895		
11,100.00	7,806.96	7,753.96	7,753.96	82.97	155.57	-90.00	-8,175.60	2,235.97	4,113.87	3,920.92	192.95	21.321		
11,200.00	7,806.95	7,753.95	7,753.95	84.63	155.57	-90.00	-8,175.60	2,235.97	4,022.45	3,828.56	193.89	20.746		
11,300.00	7,806.95	7,753.95	7,753.95	86.29	155.57	-90.00	-8,175.60	2,235.97	3,931.45	3,736.55	194.90	20.172		
11,400.00	7,806.95	7,753.95	7,753.95	87.96	155.57	-90.00	-8,175.60	2,235.97	3,840.89	3,644.90	195.99	19.597		
11,500.00	7,806.95	7,753.95	7,753.95	89.64	155.57	-90.00	-8,175.60	2,235.97	3,750.82	3,553.65	197.17	19.024		
11,600.00	7,806.95	7,753.95	7,753.95	91.31	155.57	-90.00	-8,175.60	2,235.97	3,661.26	3,462.83	198.43	18.451		
11,700.00	7,806.95	7,753.95	7,753.95	92.99	155.57	-90.00	-8,175.60	2,235.97	3,572.25	3,372.46	199.79	17.880		
11,800.00	7,806.95	7,753.95	7,753.95	94.68	155.57	-90.00	-8,175.60	2,235.97	3,483.84	3,282.59	201.25	17.311		
11,900.00	7,806.94	7,753.94	7,753.94	96.36	155.57	-90.00	-8,175.60	2,235.97	3,396.08	3,193.26	202.81	16.745		
12,000.00	7,806.94	7,753.94	7,753.94	98.05	155.57	-90.00	-8,175.60	2,235.97	3,309.00	3,104.52	204.49	16.182		
12,100.00	7,806.94	7,753.94	7,753.94	99.74	155.57	-90.00	-8,175.60	2,235.97	3,222.68	3,016.40	206.28	15.623		
12,200.00	7,806.94	7,753.94	7,753.94	101.44	155.57	-90.00	-8,175.60	2,235.97	3,137.18	2,928.98	208.19	15.068		
12,300.00	7,806.94	7,753.94	7,753.94	103.14	155.57	-90.00	-8,175.60	2,235.97	3,052.55	2,842.31	210.24	14.519		
12,400.00	7,806.94	7,753.94	7,753.94	104.84	155.57	-90.00	-8,175.60	2,235.97	2,968.88	2,756.46	212.42	13.976		
12,500.00	7,806.93	7,753.93	7,753.93	106.54	155.57	-90.00	-8,175.60	2,235.97	2,886.24	2,671.50	214.75	13.440		
12,600.00	7,806.93	7,753.93	7,753.93	108.25	155.57	-90.00	-8,175.60	2,235.97	2,804.74	2,587.52	217.22	12.912		
12,700.00	7,806.93	7,753.93	7,753.93	109.95	155.57	-90.00	-8,175.60	2,235.97	2,724.47	2,504.62	219.85	12.392		
12,800.00	7,806.93	7,753.93	7,753.93	111.66	155.57	-90.00	-8,175.60	2,235.97	2,645.55	2,422.91	222.65	11.882		
12,900.00	7,806.93	7,753.93	7,753.93	113.37	155.57	-90.00	-8,175.60	2,235.97	2,568.10	2,342.49	225.61	11.383		
13,000.00	7,806.93	7,753.93	7,753.93	115.09	155.57	-90.00	-8,175.60	2,235.97	2,492.25	2,263.50	228.75	10.895		
13,100.00	7,806.93	7,753.93	7,753.93	116.80	155.57	-90.00	-8,175.60	2,235.97	2,418.16	2,186.09	232.06	10.420		
13,200.00	7,806.92	7,753.92	7,753.92	118.52	155.57	-90.00	-8,175.60	2,235.97	2,345.99	2,110.43	235.56	9.959		
13,300.00	7,806.92	7,753.92	7,753.92	120.24	155.57	-90.00	-8,175.60	2,235.97	2,275.93	2,036.69	239.24	9.513		
13,400.00	7,806.92	7,753.92	7,753.92	121.96	155.57	-90.00	-8,175.60	2,235.97	2,208.17	1,965.08	243.09	9.084		
13,500.00	7,806.92	7,753.92	7,753.92	123.68	155.57	-90.00	-8,175.60	2,235.97	2,142.94	1,895.82	247.12	8.672		
13,600.00	7,806.92	7,753.92	7,753.92	125.40	155.57	-90.00	-8,175.60	2,235.97	2,080.47	1,829.17	251.31	8.279		
13,700.00	7,806.92	7,753.92	7,753.92	127.12	155.57	-90.00	-8,175.60	2,235.97	2,021.03	1,765.39	255.64	7.906		
13,800.00	7,806.91	7,753.91	7,753.91	128.85	155.57	-90.00	-8,175.60	2,235.97	1,964.87	1,704.78	260.09	7.554		
13,900.00	7,806.91	7,753.91	7,753.91	130.58	155.57	-90.00	-8,175.60	2,235.97	1,912.30	1,647.66	264.64	7.226		
14,000.00	7,806.91	7,753.91	7,753.91	132.30	155.57	-90.00	-8,175.60	2,235.97	1,863.62	1,594.38	269.24	6.922		
14,100.00	7,806.91	7,753.91	7,753.91	134.03	155.57	-90.00	-8,175.60	2,235.97	1,819.14	1,545.29	273.85	6.643		
14,200.00	7,806.91	7,753.91	7,753.91	135.76	155.57	-90.00	-8,175.60	2,235.97	1,779.17	1,500.77	278.40	6.391		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	
14,300.00	7,806.91	7,753.91	7,753.91	137.50	155.57	-90.00	-8,175.60	2,235.97	1,744.02	1,461.18	282.85	6.166	
14,400.00	7,806.91	7,753.91	7,753.91	139.23	155.57	-90.00	-8,175.60	2,235.97	1,714.00	1,426.89	287.11	5.970	
14,500.00	7,806.90	7,753.90	7,753.90	140.96	155.57	-90.00	-8,175.60	2,235.97	1,689.37	1,398.25	291.13	5.803	
14,600.00	7,806.90	7,753.90	7,753.90	142.70	155.57	-90.00	-8,175.60	2,235.97	1,670.38	1,375.56	294.82	5.666	
14,700.00	7,806.90	7,753.90	7,753.90	144.43	155.57	-90.00	-8,175.60	2,235.97	1,657.21	1,359.08	298.12	5.559	
14,800.00	7,806.90	7,753.90	7,753.90	146.17	155.57	-90.00	-8,175.60	2,235.97	1,650.01	1,349.02	300.98	5.482	
14,869.11	7,806.90	7,753.90	7,753.90	147.37	155.57	-90.00	-8,175.60	2,235.97	1,648.56	1,345.89	302.67	5.447	CC
14,900.00	7,806.90	7,753.90	7,753.90	147.91	155.57	-90.00	-8,175.60	2,235.97	1,648.85	1,345.50	303.35	5.436	ES
15,000.00	7,806.90	7,753.90	7,753.90	149.64	155.57	-90.00	-8,175.60	2,235.97	1,653.75	1,348.55	305.19	5.419	SF
15,100.00	7,806.89	7,753.89	7,753.89	151.38	155.57	-90.00	-8,175.60	2,235.97	1,664.65	1,358.14	306.51	5.431	
15,200.00	7,806.89	7,753.89	7,753.89	153.12	155.57	-90.00	-8,175.60	2,235.97	1,681.44	1,374.14	307.30	5.472	
15,300.00	7,806.89	7,753.89	7,753.89	154.86	155.57	-90.00	-8,175.60	2,235.97	1,703.94	1,396.36	307.58	5.540	
15,400.00	7,806.89	7,753.89	7,753.89	156.60	155.57	-90.00	-8,175.60	2,235.97	1,731.93	1,424.54	307.40	5.634	
15,500.00	7,806.89	7,753.89	7,753.89	158.35	155.57	-90.00	-8,175.60	2,235.97	1,765.15	1,458.36	306.79	5.754	
15,600.00	7,806.89	7,753.89	7,753.89	160.09	155.57	-90.00	-8,175.60	2,235.97	1,803.32	1,497.50	305.82	5.897	
15,700.00	7,806.89	7,753.89	7,753.89	161.83	155.57	-90.00	-8,175.60	2,235.97	1,846.11	1,541.59	304.52	6.062	
15,800.00	7,806.88	7,753.88	7,753.88	163.57	155.57	-90.00	-8,175.60	2,235.97	1,893.23	1,590.25	302.97	6.249	
15,900.00	7,806.88	7,753.88	7,753.88	165.32	155.57	-90.00	-8,175.60	2,235.97	1,944.35	1,643.13	301.21	6.455	
16,000.00	7,806.88	7,753.88	7,753.88	167.06	155.57	-90.00	-8,175.60	2,235.97	1,999.17	1,699.87	299.29	6.680	
16,100.00	7,806.88	7,753.88	7,753.88	168.81	155.57	-90.00	-8,175.60	2,235.97	2,057.39	1,760.13	297.26	6.921	
16,200.00	7,806.88	7,753.88	7,753.88	170.56	155.57	-90.00	-8,175.60	2,235.97	2,118.73	1,823.59	295.14	7.179	
16,300.00	7,806.88	7,753.88	7,753.88	172.30	155.57	-90.00	-8,175.60	2,235.97	2,182.93	1,889.96	292.98	7.451	
16,400.00	7,806.87	7,753.87	7,753.87	174.05	155.57	-90.00	-8,175.60	2,235.97	2,249.75	1,958.96	290.79	7.737	
16,500.00	7,806.87	7,753.87	7,753.87	175.80	155.57	-90.00	-8,175.60	2,235.97	2,318.96	2,030.34	288.61	8.035	
16,600.00	7,806.87	7,753.87	7,753.87	177.55	155.57	-90.00	-8,175.60	2,235.97	2,390.34	2,103.89	286.45	8.345	
16,700.00	7,806.87	7,753.87	7,753.87	179.30	155.57	-90.00	-8,175.60	2,235.97	2,463.72	2,179.40	284.32	8.665	
16,800.00	7,806.87	7,753.87	7,753.87	181.04	155.57	-90.00	-8,175.60	2,235.97	2,538.92	2,256.69	282.23	8.996	
16,900.00	7,806.87	7,753.87	7,753.87	182.79	155.57	-90.00	-8,175.60	2,235.97	2,615.77	2,335.58	280.19	9.336	
17,000.00	7,806.87	7,753.87	7,753.87	184.54	155.57	-90.00	-8,175.60	2,235.97	2,694.15	2,415.94	278.21	9.684	
17,100.00	7,806.86	7,753.86	7,753.86	186.30	155.57	-90.00	-8,175.60	2,235.97	2,773.92	2,497.62	276.29	10.040	
17,200.00	7,806.86	7,753.86	7,753.86	188.05	155.57	-90.00	-8,175.60	2,235.97	2,854.96	2,580.52	274.44	10.403	
17,300.00	7,806.86	7,753.86	7,753.86	189.80	155.57	-90.00	-8,175.60	2,235.97	2,937.17	2,664.53	272.65	10.773	
17,400.00	7,806.86	7,753.86	7,753.86	191.55	155.57	-90.00	-8,175.60	2,235.97	3,020.46	2,749.54	270.92	11.149	
17,500.00	7,806.86	7,753.86	7,753.86	193.30	155.57	-90.00	-8,175.60	2,235.97	3,104.73	2,835.47	269.26	11.531	
17,600.00	7,806.86	7,753.86	7,753.86	195.06	155.57	-90.00	-8,175.60	2,235.97	3,189.91	2,922.25	267.66	11.918	
17,700.00	7,806.85	7,753.85	7,753.85	196.81	155.57	-90.00	-8,175.60	2,235.97	3,275.93	3,009.81	266.12	12.310	
17,800.00	7,806.85	7,753.85	7,753.85	198.56	155.57	-90.00	-8,175.60	2,235.97	3,362.72	3,098.08	264.64	12.707	
17,898.35	7,807.00	7,754.00	7,754.00	200.29	155.58	-90.00	-8,175.60	2,235.97	3,448.78	3,185.52	263.25	13.101	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance							Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
6,900.00	6,783.81	6,807.19	6,792.81	30.85	136.52	42.36	-10,701.50	-1,790.00	9,999.64	9,835.43	164.21	60.895		
7,000.00	6,883.25	6,907.75	6,892.25	31.24	138.55	42.29	-10,701.50	-1,790.00	9,991.87	9,825.26	166.61	59.971		
7,100.00	6,983.00	7,008.00	6,992.00	31.60	140.56	42.25	-10,701.50	-1,790.00	9,986.67	9,817.69	168.98	59.099		
7,200.00	7,082.93	7,108.07	7,091.93	31.92	142.58	42.23	-10,701.50	-1,790.00	9,984.06	9,812.74	171.32	58.276		
7,251.07	7,134.00	7,143.00	7,143.00	32.06	143.28	-166.48	-10,701.50	-1,790.00	9,983.72	9,811.54	172.18	57.984		
7,300.00	7,182.93	7,208.07	7,191.93	32.19	144.59	-166.48	-10,701.50	-1,790.00	9,983.72	9,810.09	173.63	57.500		
7,351.07	7,234.00	7,243.00	7,243.00	32.32	145.29	-166.48	-10,701.50	-1,790.00	9,983.72	9,809.24	174.48	57.220		
7,400.00	7,282.87	7,308.13	7,291.87	32.47	146.60	13.92	-10,701.50	-1,790.00	9,981.70	9,805.75	175.94	56.732		
7,450.00	7,332.44	7,341.44	7,341.44	32.67	147.27	14.08	-10,701.50	-1,790.00	9,975.45	9,798.66	176.79	56.426		
7,500.00	7,381.26	7,409.74	7,390.26	32.90	148.64	14.35	-10,701.50	-1,790.00	9,965.04	9,786.69	178.35	55.873		
7,550.00	7,428.96	7,437.96	7,437.96	33.18	149.21	14.76	-10,701.50	-1,790.00	9,950.54	9,771.42	179.12	55.553		
7,600.00	7,475.17	7,484.17	7,484.17	33.48	150.14	15.30	-10,701.50	-1,790.00	9,932.06	9,751.80	180.25	55.101		
7,650.00	7,519.55	7,528.55	7,528.55	33.82	151.03	16.01	-10,701.50	-1,790.00	9,909.74	9,728.38	181.36	54.642		
7,700.00	7,561.76	7,570.76	7,570.76	34.20	151.88	16.92	-10,701.50	-1,790.00	9,883.76	9,701.34	182.42	54.181		
7,750.00	7,601.47	7,610.47	7,610.47	34.60	152.68	18.06	-10,701.50	-1,790.00	9,854.31	9,670.88	183.43	53.722		
7,800.00	7,638.39	7,647.39	7,647.39	35.04	153.42	19.52	-10,701.50	-1,790.00	9,821.63	9,637.24	184.39	53.267		
7,850.00	7,672.23	7,681.23	7,681.23	35.50	154.10	21.37	-10,701.50	-1,790.00	9,785.95	9,600.68	185.27	52.819		
7,900.00	7,702.74	7,711.74	7,711.74	35.99	154.72	23.76	-10,701.50	-1,790.00	9,747.56	9,561.47	186.09	52.382		
7,950.00	7,729.67	7,738.67	7,738.67	36.50	155.26	26.88	-10,701.50	-1,790.00	9,706.75	9,519.93	186.82	51.957		
8,000.00	7,752.84	7,761.84	7,761.84	37.04	155.72	31.05	-10,701.50	-1,790.00	9,663.83	9,476.36	187.47	51.548		
8,050.00	7,772.06	7,781.06	7,781.06	37.60	156.11	36.75	-10,701.50	-1,790.00	9,619.13	9,431.10	188.03	51.157		
8,100.00	7,787.18	7,803.82	7,796.18	38.17	156.57	44.71	-10,701.50	-1,790.00	9,573.00	9,384.34	188.65	50.744		
8,150.00	7,798.10	7,807.10	7,807.10	38.76	156.63	55.91	-10,701.50	-1,790.00	9,525.77	9,336.90	188.87	50.435		
8,200.00	7,804.72	7,813.72	7,813.72	39.36	156.77	71.14	-10,701.50	-1,790.00	9,477.83	9,288.68	189.15	50.107		
8,251.15	7,807.00	7,816.00	7,816.00	39.97	156.81	90.00	-10,701.50	-1,790.00	9,428.41	9,239.08	189.33	49.798		
8,300.00	7,807.00	7,816.00	7,816.00	40.56	156.81	90.00	-10,701.50	-1,790.00	9,381.16	9,191.70	189.46	49.515		
8,400.00	7,807.00	7,816.00	7,816.00	41.80	156.81	90.00	-10,701.50	-1,790.00	9,284.50	9,094.77	189.73	48.935		
8,500.00	7,807.00	7,816.00	7,816.00	43.08	156.81	90.00	-10,701.50	-1,790.00	9,187.92	8,997.91	190.01	48.354		
8,600.00	7,806.99	7,815.99	7,815.99	44.40	156.81	90.00	-10,701.50	-1,790.00	9,091.40	8,901.10	190.31	47.772		
8,700.00	7,806.99	7,815.99	7,815.99	45.74	156.81	90.00	-10,701.50	-1,790.00	8,994.97	8,804.35	190.61	47.189		
8,800.00	7,806.99	7,815.99	7,815.99	47.11	156.81	90.00	-10,701.50	-1,790.00	8,898.61	8,707.67	190.94	46.605		
8,900.00	7,806.99	7,815.99	7,815.99	48.51	156.81	90.00	-10,701.50	-1,790.00	8,802.33	8,611.06	191.27	46.020		
9,000.00	7,806.99	7,815.99	7,815.99	49.93	156.81	90.00	-10,701.50	-1,790.00	8,706.14	8,514.52	191.62	45.434		
9,100.00	7,806.99	7,815.99	7,815.99	51.38	156.81	90.00	-10,701.50	-1,790.00	8,610.03	8,418.05	191.98	44.848		
9,200.00	7,806.99	7,815.99	7,815.99	52.84	156.81	90.00	-10,701.50	-1,790.00	8,514.02	8,321.65	192.36	44.260		
9,300.00	7,806.98	7,815.98	7,815.98	54.32	156.81	90.00	-10,701.50	-1,790.00	8,418.09	8,225.33	192.76	43.672		
9,400.00	7,806.98	7,815.98	7,815.98	55.82	156.81	90.00	-10,701.50	-1,790.00	8,322.26	8,129.09	193.17	43.083		
9,500.00	7,806.98	7,815.98	7,815.98	57.34	156.81	90.00	-10,701.50	-1,790.00	8,226.54	8,032.94	193.60	42.493		
9,600.00	7,806.98	7,815.98	7,815.98	58.87	156.81	90.00	-10,701.50	-1,790.00	8,130.91	7,936.87	194.04	41.903		
9,700.00	7,806.98	7,815.98	7,815.98	60.41	156.81	90.00	-10,701.50	-1,790.00	8,035.39	7,840.88	194.51	41.312		
9,800.00	7,806.98	7,815.98	7,815.98	61.96	156.81	90.00	-10,701.50	-1,790.00	7,939.98	7,744.99	194.99	40.721		
9,900.00	7,806.97	7,815.97	7,815.97	63.53	156.81	90.00	-10,701.50	-1,790.00	7,844.69	7,649.20	195.49	40.129		
10,000.00	7,806.97	7,815.97	7,815.97	65.10	156.81	90.00	-10,701.50	-1,790.00	7,749.51	7,553.50	196.01	39.537		
10,100.00	7,806.97	7,815.97	7,815.97	66.69	156.81	90.00	-10,701.50	-1,790.00	7,654.46	7,457.91	196.55	38.945		
10,200.00	7,806.97	7,815.97	7,815.97	68.29	156.81	90.00	-10,701.50	-1,790.00	7,559.53	7,362.42	197.11	38.353		
10,300.00	7,806.97	7,815.97	7,815.97	69.89	156.81	90.00	-10,701.50	-1,790.00	7,464.74	7,267.05	197.69	37.760		
10,400.00	7,806.97	7,815.97	7,815.97	71.50	156.81	90.00	-10,701.50	-1,790.00	7,370.08	7,171.79	198.29	37.168		
10,500.00	7,806.97	7,815.97	7,815.97	73.12	156.81	90.00	-10,701.50	-1,790.00	7,275.57	7,076.65	198.92	36.576		
10,600.00	7,806.96	7,815.96	7,815.96	74.75	156.81	90.00	-10,701.50	-1,790.00	7,181.21	6,981.64	199.57	35.984		
10,700.00	7,806.96	7,815.96	7,815.96	76.38	156.81	90.00	-10,701.50	-1,790.00	7,087.00	6,886.75	200.24	35.392		
10,800.00	7,806.96	7,815.96	7,815.96	78.02	156.81	90.00	-10,701.50	-1,790.00	6,992.95	6,792.00	200.94	34.800		
10,900.00	7,806.96	7,815.96	7,815.96	79.66	156.81	90.00	-10,701.50	-1,790.00	6,899.07	6,697.40	201.67	34.210		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
11,000.00	7,806.96	7,815.96	7,815.96	81.31	156.81	90.00	-10,701.50	-1,790.00	6,805.36	6,602.94	202.42	33.619		
11,100.00	7,806.96	7,815.96	7,815.96	82.97	156.81	90.00	-10,701.50	-1,790.00	6,711.84	6,508.63	203.21	33.030		
11,200.00	7,806.95	7,815.95	7,815.95	84.63	156.81	90.00	-10,701.50	-1,790.00	6,618.50	6,414.49	204.02	32.441		
11,300.00	7,806.95	7,815.95	7,815.95	86.29	156.81	90.00	-10,701.50	-1,790.00	6,525.36	6,320.51	204.86	31.853		
11,400.00	7,806.95	7,815.95	7,815.95	87.96	156.81	90.00	-10,701.50	-1,790.00	6,432.43	6,226.70	205.73	31.267		
11,500.00	7,806.95	7,815.95	7,815.95	89.64	156.81	90.00	-10,701.50	-1,790.00	6,339.71	6,133.08	206.63	30.682		
11,600.00	7,806.95	7,815.95	7,815.95	91.31	156.81	90.00	-10,701.50	-1,790.00	6,247.22	6,039.65	207.57	30.097		
11,700.00	7,806.95	7,815.95	7,815.95	92.99	156.81	90.00	-10,701.50	-1,790.00	6,154.96	5,946.43	208.54	29.515		
11,800.00	7,806.95	7,815.95	7,815.95	94.68	156.81	90.00	-10,701.50	-1,790.00	6,062.95	5,853.41	209.54	28.934		
11,900.00	7,806.94	7,815.94	7,815.94	96.36	156.81	90.00	-10,701.50	-1,790.00	5,971.20	5,760.61	210.59	28.355		
12,000.00	7,806.94	7,815.94	7,815.94	98.05	156.81	90.00	-10,701.50	-1,790.00	5,879.71	5,668.04	211.67	27.778		
12,100.00	7,806.94	7,815.94	7,815.94	99.74	156.81	90.00	-10,701.50	-1,790.00	5,788.50	5,575.71	212.79	27.203		
12,200.00	7,806.94	7,815.94	7,815.94	101.44	156.81	90.00	-10,701.50	-1,790.00	5,697.60	5,483.64	213.95	26.630		
12,300.00	7,806.94	7,815.94	7,815.94	103.14	156.81	90.00	-10,701.50	-1,790.00	5,607.00	5,391.84	215.16	26.060		
12,400.00	7,806.94	7,815.94	7,815.94	104.84	156.81	90.00	-10,701.50	-1,790.00	5,516.72	5,300.31	216.41	25.492		
12,500.00	7,806.93	7,815.93	7,815.93	106.54	156.81	90.00	-10,701.50	-1,790.00	5,426.79	5,209.08	217.71	24.927		
12,600.00	7,806.93	7,815.93	7,815.93	108.25	156.81	90.00	-10,701.50	-1,790.00	5,337.21	5,118.16	219.05	24.365		
12,700.00	7,806.93	7,815.93	7,815.93	109.95	156.81	90.00	-10,701.50	-1,790.00	5,248.01	5,027.56	220.45	23.806		
12,800.00	7,806.93	7,815.93	7,815.93	111.66	156.81	90.00	-10,701.50	-1,790.00	5,159.21	4,937.31	221.89	23.251		
12,900.00	7,806.93	7,815.93	7,815.93	113.37	156.81	90.00	-10,701.50	-1,790.00	5,070.82	4,847.43	223.39	22.699		
13,000.00	7,806.93	7,815.93	7,815.93	115.09	156.81	90.00	-10,701.50	-1,790.00	4,982.87	4,757.92	224.95	22.151		
13,100.00	7,806.93	7,815.93	7,815.93	116.80	156.81	90.00	-10,701.50	-1,790.00	4,895.39	4,668.83	226.56	21.607		
13,200.00	7,806.92	7,815.92	7,815.92	118.52	156.81	90.00	-10,701.50	-1,790.00	4,808.39	4,580.15	228.24	21.067		
13,300.00	7,806.92	7,815.92	7,815.92	120.24	156.81	90.00	-10,701.50	-1,790.00	4,721.91	4,491.94	229.97	20.532		
13,400.00	7,806.92	7,815.92	7,815.92	121.96	156.81	90.00	-10,701.50	-1,790.00	4,635.97	4,404.20	231.78	20.002		
13,500.00	7,806.92	7,815.92	7,815.92	123.68	156.81	90.00	-10,701.50	-1,790.00	4,550.61	4,316.97	233.64	19.477		
13,600.00	7,806.92	7,815.92	7,815.92	125.40	156.81	90.00	-10,701.50	-1,790.00	4,465.85	4,230.27	235.58	18.957		
13,700.00	7,806.92	7,815.92	7,815.92	127.12	156.81	90.00	-10,701.50	-1,790.00	4,381.74	4,144.15	237.59	18.442		
13,800.00	7,806.91	7,815.91	7,815.91	128.85	156.81	90.00	-10,701.50	-1,790.00	4,298.31	4,058.64	239.67	17.934		
13,900.00	7,806.91	7,815.91	7,815.91	130.58	156.81	90.00	-10,701.50	-1,790.00	4,215.60	3,973.76	241.83	17.432		
14,000.00	7,806.91	7,815.91	7,815.91	132.30	156.81	90.00	-10,701.50	-1,790.00	4,133.65	3,889.58	244.07	16.936		
14,100.00	7,806.91	7,815.91	7,815.91	134.03	156.81	90.00	-10,701.50	-1,790.00	4,052.51	3,806.12	246.40	16.447		
14,200.00	7,806.91	7,815.91	7,815.91	135.76	156.81	90.00	-10,701.50	-1,790.00	3,972.24	3,723.44	248.80	15.966		
14,300.00	7,806.91	7,815.91	7,815.91	137.50	156.81	90.00	-10,701.50	-1,790.00	3,892.88	3,641.58	251.29	15.491		
14,400.00	7,806.91	7,815.91	7,815.91	139.23	156.81	90.00	-10,701.50	-1,790.00	3,814.48	3,560.61	253.87	15.025		
14,500.00	7,806.90	7,815.90	7,815.90	140.96	156.81	90.00	-10,701.50	-1,790.00	3,737.12	3,480.58	256.54	14.567		
14,600.00	7,806.90	7,815.90	7,815.90	142.70	156.81	90.00	-10,701.50	-1,790.00	3,660.86	3,401.56	259.30	14.118		
14,700.00	7,806.90	7,815.90	7,815.90	144.43	156.81	90.00	-10,701.50	-1,790.00	3,585.76	3,323.61	262.16	13.678		
14,800.00	7,806.90	7,815.90	7,815.90	146.17	156.81	90.00	-10,701.50	-1,790.00	3,511.91	3,246.81	265.10	13.247		
14,900.00	7,806.90	7,815.90	7,815.90	147.91	156.81	90.00	-10,701.50	-1,790.00	3,439.38	3,171.23	268.14	12.827		
15,000.00	7,806.90	7,815.90	7,815.90	149.64	156.81	90.00	-10,701.50	-1,790.00	3,368.25	3,096.98	271.28	12.416		
15,100.00	7,806.89	7,815.89	7,815.89	151.38	156.81	90.00	-10,701.50	-1,790.00	3,298.62	3,024.12	274.50	12.017		
15,200.00	7,806.89	7,815.89	7,815.89	153.12	156.81	90.00	-10,701.50	-1,790.00	3,230.59	2,952.78	277.81	11.629		
15,300.00	7,806.89	7,815.89	7,815.89	154.86	156.81	90.00	-10,701.50	-1,790.00	3,164.26	2,883.05	281.21	11.252		
15,400.00	7,806.89	7,815.89	7,815.89	156.60	156.81	90.00	-10,701.50	-1,790.00	3,099.73	2,815.04	284.69	10.888		
15,500.00	7,806.89	7,815.89	7,815.89	158.35	156.81	90.00	-10,701.50	-1,790.00	3,037.13	2,748.88	288.24	10.537		
15,600.00	7,806.89	7,815.89	7,815.89	160.09	156.81	90.00	-10,701.50	-1,790.00	2,976.57	2,684.70	291.87	10.198		
15,700.00	7,806.89	7,815.89	7,815.89	161.83	156.81	90.00	-10,701.50	-1,790.00	2,918.17	2,622.63	295.54	9.874		
15,800.00	7,806.88	7,815.88	7,815.88	163.57	156.81	90.00	-10,701.50	-1,790.00	2,862.09	2,562.82	299.27	9.564		
15,900.00	7,806.88	7,815.88	7,815.88	165.32	156.81	90.00	-10,701.50	-1,790.00	2,808.44	2,505.42	303.02	9.268		
16,000.00	7,806.88	7,815.88	7,815.88	167.06	156.81	90.00	-10,701.50	-1,790.00	2,757.38	2,450.59	306.79	8.988		
16,100.00	7,806.88	7,815.88	7,815.88	168.81	156.81	90.00	-10,701.50	-1,790.00	2,709.05	2,398.49	310.56	8.723		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design Sec 4-T1N-R68W - EXIST VERT NORDSTROM 2-4 - Wellbore #1 - Design #1												Offset Site Error:	0.00 usft
Survey Program: 0-INC												Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
16,200.00	7,806.88	7,815.88	7,815.88	170.56	156.81	90.00	-10,701.50	-1,790.00	2,663.60	2,349.29	314.31	8.474	
16,300.00	7,806.88	7,815.88	7,815.88	172.30	156.81	90.00	-10,701.50	-1,790.00	2,621.18	2,303.17	318.01	8.242	
16,400.00	7,806.87	7,815.87	7,815.87	174.05	156.81	90.00	-10,701.50	-1,790.00	2,581.93	2,260.29	321.64	8.027	
16,500.00	7,806.87	7,815.87	7,815.87	175.80	156.81	90.00	-10,701.50	-1,790.00	2,546.01	2,220.84	325.17	7.830	
16,600.00	7,806.87	7,815.87	7,815.87	177.55	156.81	90.00	-10,701.50	-1,790.00	2,513.56	2,184.98	328.58	7.650	
16,700.00	7,806.87	7,815.87	7,815.87	179.30	156.81	90.00	-10,701.50	-1,790.00	2,484.71	2,152.88	331.83	7.488	
16,800.00	7,806.87	7,815.87	7,815.87	181.04	156.81	90.00	-10,701.50	-1,790.00	2,459.59	2,124.69	334.90	7.344	
16,900.00	7,806.87	7,815.87	7,815.87	182.79	156.81	90.00	-10,701.50	-1,790.00	2,438.32	2,100.56	337.76	7.219	
17,000.00	7,806.87	7,815.87	7,815.87	184.54	156.81	90.00	-10,701.50	-1,790.00	2,420.99	2,080.61	340.38	7.113	
17,100.00	7,806.86	7,815.86	7,815.86	186.30	156.81	90.00	-10,701.50	-1,790.00	2,407.70	2,064.96	342.74	7.025	
17,200.00	7,806.86	7,815.86	7,815.86	188.05	156.81	90.00	-10,701.50	-1,790.00	2,398.50	2,053.69	344.81	6.956	
17,300.00	7,806.86	7,815.86	7,815.86	189.80	156.81	90.00	-10,701.50	-1,790.00	2,393.45	2,046.88	346.58	6.906	
17,370.98	7,806.86	7,815.86	7,815.86	191.04	156.81	90.00	-10,701.50	-1,790.00	2,392.40	2,044.76	347.64	6.882 CC	
17,400.00	7,806.86	7,815.86	7,815.86	191.55	156.81	90.00	-10,701.50	-1,790.00	2,392.58	2,044.55	348.03	6.875 ES	
17,500.00	7,806.86	7,815.86	7,815.86	193.30	156.81	90.00	-10,701.50	-1,790.00	2,395.88	2,046.72	349.16	6.862 SF	
17,600.00	7,806.86	7,815.86	7,815.86	195.06	156.81	90.00	-10,701.50	-1,790.00	2,403.34	2,053.38	349.96	6.868	
17,700.00	7,806.85	7,815.85	7,815.85	196.81	156.81	90.00	-10,701.50	-1,790.00	2,414.92	2,064.49	350.43	6.891	
17,800.00	7,806.85	7,815.85	7,815.85	198.56	156.81	90.00	-10,701.50	-1,790.00	2,430.56	2,079.97	350.59	6.933	
17,898.35	7,807.00	7,816.00	7,816.00	200.29	156.81	90.00	-10,701.50	-1,790.00	2,449.84	2,099.40	350.44	6.991	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	Database:	EDT_32Bit_ODBC
Reference Design:	PROPOSAL 1	Offset TVD Reference:	Offset Datum

Offset Design													Offset Site Error:	0.00 usft
Survey Program: 0-INC													Offset Well Error:	0.00 usft
Reference		Offset		Semi Major Axis			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.00	0.00	0.00	0.00	0.00	0.00	175.75	-9,698.35	720.29	9,725.10					
100.00	100.00	73.00	73.00	0.13	0.85	175.75	-9,698.35	720.29	9,725.06	9,724.08	0.98	9,923.809		
200.00	200.00	173.00	173.00	0.49	2.84	175.75	-9,698.35	720.29	9,725.06	9,721.73	3.33	2,921.196		
300.00	300.00	273.00	273.00	0.85	4.97	175.75	-9,698.35	720.29	9,725.06	9,719.23	5.83	1,669.281		
400.00	400.00	373.00	373.00	1.21	7.03	175.75	-9,698.35	720.29	9,725.06	9,716.82	8.24	1,180.709		
500.00	500.00	473.00	473.00	1.57	9.06	175.75	-9,698.35	720.29	9,725.06	9,714.43	10.63	915.060		
600.00	600.00	573.00	573.00	1.93	11.08	175.75	-9,698.35	720.29	9,725.06	9,712.05	13.01	747.463		
700.00	700.00	673.00	673.00	2.29	13.10	175.75	-9,698.35	720.29	9,725.06	9,709.67	15.39	631.929		
800.00	800.00	773.00	773.00	2.64	15.12	175.75	-9,698.35	720.29	9,725.06	9,707.29	17.77	547.407		
900.00	900.00	873.00	873.00	3.00	17.14	175.75	-9,698.35	720.29	9,725.06	9,704.92	20.14	482.867		
1,000.00	1,000.00	973.00	973.00	3.36	19.15	175.75	-9,698.35	720.29	9,725.06	9,702.55	22.51	431.961		
1,100.00	1,100.00	1,073.00	1,073.00	3.72	21.17	175.75	-9,698.35	720.29	9,725.06	9,700.17	24.89	390.777		
1,200.00	1,200.00	1,173.00	1,173.00	4.08	23.18	175.75	-9,698.35	720.29	9,725.06	9,697.80	27.26	356.771		
1,300.00	1,300.00	1,273.00	1,273.00	4.44	25.19	175.75	-9,698.35	720.29	9,725.06	9,695.43	29.63	328.214		
1,400.00	1,399.98	1,372.98	1,372.98	4.78	27.21	24.47	-9,698.35	720.29	9,723.47	9,691.49	31.98	304.003		
1,500.00	1,499.84	1,472.84	1,472.84	5.11	29.22	24.53	-9,698.35	720.29	9,718.71	9,684.38	34.32	283.143		
1,600.00	1,599.45	1,572.45	1,572.45	5.44	31.22	24.61	-9,698.35	720.29	9,710.78	9,674.11	36.66	264.861		
1,700.00	1,698.70	1,671.70	1,671.70	5.79	33.22	24.74	-9,698.35	720.29	9,699.69	9,660.69	39.00	248.711		
1,800.00	1,797.47	1,770.47	1,770.47	6.15	35.21	24.90	-9,698.35	720.29	9,685.46	9,644.13	41.33	234.339		
1,900.00	1,895.62	1,868.62	1,868.62	6.53	37.18	25.09	-9,698.35	720.29	9,668.11	9,624.45	43.65	221.466		
1,912.93	1,908.27	1,881.27	1,881.27	6.58	37.43	25.12	-9,698.35	720.29	9,665.64	9,621.68	43.96	219.888		
2,000.00	1,993.35	1,966.35	1,966.35	6.93	39.15	25.17	-9,698.35	720.29	9,648.83	9,602.86	45.97	209.874		
2,100.00	2,091.07	2,064.07	2,064.07	7.34	41.11	25.22	-9,698.35	720.29	9,629.54	9,581.25	48.30	199.384		
2,200.00	2,188.79	2,161.79	2,161.79	7.77	43.08	25.27	-9,698.35	720.29	9,610.26	9,559.64	50.62	189.837		
2,300.00	2,286.51	2,259.51	2,259.51	8.20	45.04	25.33	-9,698.35	720.29	9,590.98	9,538.03	52.96	181.115		
2,400.00	2,384.23	2,357.23	2,357.23	8.65	47.01	25.38	-9,698.35	720.29	9,571.72	9,516.43	55.29	173.117		
2,500.00	2,481.95	2,454.95	2,454.95	9.10	48.98	25.44	-9,698.35	720.29	9,552.46	9,494.83	57.63	165.757		
2,600.00	2,579.67	2,552.67	2,552.67	9.56	50.94	25.49	-9,698.35	720.29	9,533.21	9,473.24	59.97	158.964		
2,700.00	2,677.39	2,650.39	2,650.39	10.02	52.91	25.55	-9,698.35	720.29	9,513.97	9,451.65	62.32	152.675		
2,800.00	2,775.11	2,748.11	2,748.11	10.49	54.87	25.60	-9,698.35	720.29	9,494.73	9,430.07	64.66	146.836		
2,900.00	2,872.83	2,845.83	2,845.83	10.96	56.84	25.66	-9,698.35	720.29	9,475.51	9,408.50	67.01	141.403		
3,000.00	2,970.55	2,943.55	2,943.55	11.44	58.80	25.71	-9,698.35	720.29	9,456.29	9,386.93	69.36	136.333		
3,100.00	3,068.27	3,041.27	3,041.27	11.92	60.77	25.77	-9,698.35	720.29	9,437.08	9,365.37	71.71	131.593		
3,200.00	3,165.99	3,138.99	3,138.99	12.40	62.73	25.82	-9,698.35	720.29	9,417.89	9,343.82	74.07	127.151		
3,300.00	3,263.71	3,236.71	3,236.71	12.88	64.70	25.88	-9,698.35	720.29	9,398.70	9,322.27	76.42	122.981		
3,400.00	3,361.43	3,334.43	3,334.43	13.37	66.66	25.94	-9,698.35	720.29	9,379.51	9,300.73	78.78	119.058		
3,500.00	3,459.15	3,432.15	3,432.15	13.86	68.63	25.99	-9,698.35	720.29	9,360.34	9,279.20	81.14	115.362		
3,600.00	3,556.87	3,529.87	3,529.87	14.35	70.60	26.05	-9,698.35	720.29	9,341.18	9,257.68	83.50	111.873		
3,700.00	3,654.59	3,627.59	3,627.59	14.84	72.56	26.11	-9,698.35	720.29	9,322.02	9,236.16	85.86	108.574		
3,800.00	3,752.31	3,725.31	3,725.31	15.34	74.53	26.16	-9,698.35	720.29	9,302.88	9,214.66	88.22	105.451		
3,900.00	3,850.03	3,823.03	3,823.03	15.83	76.49	26.22	-9,698.35	720.29	9,283.74	9,193.16	90.58	102.489		
4,000.00	3,947.75	3,920.75	3,920.75	16.33	78.46	26.28	-9,698.35	720.29	9,264.61	9,171.67	92.95	99.677		
4,100.00	4,045.47	4,018.47	4,018.47	16.83	80.42	26.34	-9,698.35	720.29	9,245.50	9,150.19	95.31	97.004		
4,200.00	4,143.19	4,116.19	4,116.19	17.32	82.39	26.40	-9,698.35	720.29	9,226.39	9,128.71	97.68	94.460		
4,300.00	4,240.91	4,213.91	4,213.91	17.82	84.35	26.45	-9,698.35	720.29	9,207.29	9,107.25	100.04	92.035		
4,400.00	4,338.63	4,311.63	4,311.63	18.32	86.32	26.51	-9,698.35	720.29	9,188.20	9,085.79	102.41	89.722		
4,500.00	4,436.35	4,409.35	4,409.35	18.82	88.28	26.57	-9,698.35	720.29	9,169.12	9,064.34	104.77	87.513		
4,600.00	4,534.07	4,507.07	4,507.07	19.33	90.25	26.63	-9,698.35	720.29	9,150.04	9,042.90	107.14	85.401		
4,700.00	4,631.79	4,604.79	4,604.79	19.83	92.21	26.69	-9,698.35	720.29	9,130.98	9,021.47	109.51	83.380		
4,800.00	4,729.51	4,702.51	4,702.51	20.33	94.18	26.75	-9,698.35	720.29	9,111.93	9,000.05	111.88	81.444		
4,900.00	4,827.23	4,800.23	4,800.23	20.83	96.14	26.81	-9,698.35	720.29	9,092.89	8,978.64	114.25	79.588		
5,000.00	4,924.95	4,902.05	4,897.95	21.34	98.19	26.87	-9,698.35	720.29	9,073.85	8,957.15	116.70	77.752		

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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
5,100.00	5,022.67	5,004.33	4,995.67	21.84	100.25	26.93	-9,698.35	720.29	9,054.83	8,935.67	119.17	75.986	
5,200.00	5,120.39	5,106.61	5,093.39	22.35	102.31	26.99	-9,698.35	720.29	9,035.82	8,914.19	121.63	74.291	
5,300.00	5,218.11	5,208.89	5,191.11	22.85	104.36	27.05	-9,698.35	720.29	9,016.81	8,892.72	124.09	72.662	
5,400.00	5,315.83	5,288.83	5,288.83	23.36	105.97	27.11	-9,698.35	720.29	8,997.82	8,871.71	126.11	71.351	
5,500.00	5,413.55	5,386.55	5,386.55	23.86	107.94	27.17	-9,698.35	720.29	8,978.84	8,850.36	128.48	69.885	
5,600.00	5,511.27	5,484.27	5,484.27	24.37	109.90	27.24	-9,698.35	720.29	8,959.86	8,829.01	130.85	68.473	
5,700.00	5,608.99	5,581.99	5,581.99	24.88	111.87	27.30	-9,698.35	720.29	8,940.90	8,807.67	133.23	67.110	
5,800.00	5,706.71	5,679.71	5,679.71	25.38	113.83	27.36	-9,698.35	720.29	8,921.95	8,786.35	135.60	65.795	
5,900.00	5,804.43	5,777.43	5,777.43	25.89	115.80	27.42	-9,698.35	720.29	8,903.01	8,765.03	137.98	64.526	
6,000.00	5,902.15	5,875.15	5,875.15	26.40	117.76	27.49	-9,698.35	720.29	8,884.07	8,743.72	140.35	63.299	
6,100.00	5,999.87	5,972.87	5,972.87	26.91	119.73	27.55	-9,698.35	720.29	8,865.15	8,722.42	142.73	62.112	
6,200.00	6,097.59	6,070.59	6,070.59	27.42	121.69	27.61	-9,698.35	720.29	8,846.24	8,701.14	145.10	60.965	
6,300.00	6,195.30	6,168.30	6,168.30	27.92	123.66	27.68	-9,698.35	720.29	8,827.34	8,679.86	147.48	59.854	
6,400.00	6,293.02	6,266.02	6,266.02	28.43	125.62	27.74	-9,698.35	720.29	8,808.45	8,658.59	149.86	58.779	
6,500.00	6,390.74	6,363.74	6,363.74	28.94	127.58	27.80	-9,698.35	720.29	8,789.57	8,637.33	152.24	57.737	
6,600.00	6,488.46	6,461.46	6,461.46	29.45	129.55	27.87	-9,698.35	720.29	8,770.70	8,616.09	154.61	56.726	
6,638.14	6,525.73	6,501.27	6,498.73	29.64	130.35	27.89	-9,698.35	720.29	8,763.51	8,607.94	155.57	56.331	
6,700.00	6,586.32	6,559.32	6,559.32	29.95	131.52	27.83	-9,698.35	720.29	8,752.42	8,595.43	156.99	55.751	
6,800.00	6,684.79	6,657.79	6,657.79	30.42	133.50	27.73	-9,698.35	720.29	8,736.98	8,577.61	159.37	54.822	
6,900.00	6,783.81	6,756.81	6,756.81	30.85	135.49	27.66	-9,698.35	720.29	8,724.60	8,562.85	161.74	53.941	
7,000.00	6,883.25	6,856.25	6,856.25	31.24	137.49	27.60	-9,698.35	720.29	8,715.29	8,551.18	164.11	53.106	
7,100.00	6,983.00	6,956.00	6,956.00	31.60	139.50	27.57	-9,698.35	720.29	8,709.07	8,542.60	166.47	52.316	
7,200.00	7,082.93	7,055.93	7,055.93	31.92	141.51	27.55	-9,698.35	720.29	8,705.95	8,537.13	168.82	51.570	
7,251.07	7,134.00	7,107.00	7,107.00	32.06	142.53	178.84	-9,698.35	720.29	8,705.54	8,535.54	170.01	51.208	
7,300.00	7,182.93	7,155.93	7,155.93	32.19	143.52	178.84	-9,698.35	720.29	8,705.54	8,534.40	171.14	50.869	
7,351.07	7,234.00	7,207.00	7,207.00	32.32	144.54	178.84	-9,698.35	720.29	8,705.54	8,533.22	172.32	50.520	
7,400.00	7,282.87	7,255.87	7,255.87	32.47	145.53	-0.82	-9,698.35	720.29	8,703.45	8,530.00	173.46	50.176	
7,450.00	7,332.44	7,305.44	7,305.44	32.67	146.52	-0.83	-9,698.35	720.29	8,697.02	8,522.40	174.63	49.803	
7,500.00	7,381.26	7,354.26	7,354.26	32.90	147.51	-0.85	-9,698.35	720.29	8,686.30	8,510.51	175.79	49.413	
7,550.00	7,428.96	7,401.96	7,401.96	33.18	148.47	-0.87	-9,698.35	720.29	8,671.36	8,494.43	176.93	49.010	
7,600.00	7,475.17	7,448.17	7,448.17	33.48	149.39	-0.90	-9,698.35	720.29	8,652.32	8,474.28	178.04	48.597	
7,650.00	7,519.55	7,507.45	7,492.55	33.82	150.59	-0.95	-9,698.35	720.29	8,629.33	8,449.91	179.41	48.097	
7,700.00	7,561.76	7,534.76	7,534.76	34.20	151.14	-1.01	-9,698.35	720.29	8,602.55	8,422.42	180.14	47.755	
7,750.00	7,601.47	7,574.47	7,574.47	34.60	151.93	-1.08	-9,698.35	720.29	8,572.21	8,391.10	181.10	47.333	
7,800.00	7,638.39	7,611.39	7,611.39	35.04	152.68	-1.17	-9,698.35	720.29	8,538.51	8,356.51	182.00	46.915	
7,850.00	7,672.23	7,645.23	7,645.23	35.50	153.36	-1.30	-9,698.35	720.29	8,501.73	8,318.90	182.83	46.502	
7,900.00	7,702.74	7,675.74	7,675.74	35.99	153.97	-1.46	-9,698.35	720.29	8,462.14	8,278.57	183.57	46.098	
7,950.00	7,729.67	7,702.67	7,702.67	36.50	154.51	-1.68	-9,698.35	720.29	8,420.04	8,235.81	184.22	45.706	
8,000.00	7,752.84	7,725.84	7,725.84	37.04	154.98	-2.00	-9,698.35	720.29	8,375.75	8,190.97	184.78	45.327	
8,050.00	7,772.06	7,745.06	7,745.06	37.60	155.37	-2.48	-9,698.35	720.29	8,329.61	8,144.36	185.25	44.964	
8,100.00	7,787.18	7,760.18	7,760.18	38.17	155.67	-3.28	-9,698.35	720.29	8,281.98	8,096.36	185.61	44.619	
8,150.00	7,798.10	7,771.10	7,771.10	38.76	155.89	-4.90	-9,698.35	720.29	8,233.21	8,047.33	185.88	44.294	
8,200.00	7,804.72	7,777.72	7,777.72	39.36	156.02	-9.64	-9,698.35	720.29	8,183.67	7,997.63	186.04	43.990	
8,251.15	7,807.00	7,780.00	7,780.00	39.97	156.07	-90.06	-9,698.35	720.29	8,132.60	7,946.50	186.09	43.702	
8,300.00	7,807.00	7,780.00	7,780.00	40.56	156.07	-90.06	-9,698.35	720.29	8,083.75	7,897.65	186.10	43.439	
8,400.00	7,807.00	7,780.00	7,780.00	41.80	156.07	-90.06	-9,698.35	720.29	7,983.76	7,797.66	186.10	42.900	
8,500.00	7,807.00	7,780.00	7,780.00	43.08	156.07	-90.06	-9,698.35	720.29	7,883.77	7,697.66	186.11	42.361	
8,600.00	7,806.99	7,779.99	7,779.99	44.40	156.07	-90.06	-9,698.35	720.29	7,783.78	7,597.66	186.12	41.821	
8,700.00	7,806.99	7,779.99	7,779.99	45.74	156.07	-90.05	-9,698.35	720.29	7,683.80	7,497.67	186.13	41.282	
8,800.00	7,806.99	7,779.99	7,779.99	47.11	156.07	-90.05	-9,698.35	720.29	7,583.81	7,397.67	186.14	40.743	
8,900.00	7,806.99	7,779.99	7,779.99	48.51	156.07	-90.05	-9,698.35	720.29	7,483.82	7,297.67	186.15	40.203	
9,000.00	7,806.99	7,779.99	7,779.99	49.93	156.07	-90.05	-9,698.35	720.29	7,383.84	7,197.68	186.16	39.664	

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

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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		
9,100.00	7,806.99	7,779.99	7,779.99	51.38	156.07	-90.05	-9,698.35	720.29	7,283.85	7,097.68	186.17	39.124		
9,200.00	7,806.99	7,779.99	7,779.99	52.84	156.07	-90.05	-9,698.35	720.29	7,183.87	6,997.68	186.19	38.585		
9,300.00	7,806.98	7,779.98	7,779.98	54.32	156.07	-90.05	-9,698.35	720.29	7,083.88	6,897.68	186.20	38.045		
9,400.00	7,806.98	7,779.98	7,779.98	55.82	156.07	-90.05	-9,698.35	720.29	6,983.90	6,797.68	186.21	37.505		
9,500.00	7,806.98	7,779.98	7,779.98	57.34	156.07	-90.05	-9,698.35	720.29	6,883.91	6,697.69	186.23	36.965		
9,600.00	7,806.98	7,779.98	7,779.98	58.87	156.07	-90.05	-9,698.35	720.29	6,783.93	6,597.69	186.24	36.425		
9,700.00	7,806.98	7,779.98	7,779.98	60.41	156.07	-90.05	-9,698.35	720.29	6,683.95	6,497.69	186.26	35.886		
9,800.00	7,806.98	7,779.98	7,779.98	61.96	156.07	-90.05	-9,698.35	720.29	6,583.96	6,397.69	186.27	35.346		
9,900.00	7,806.97	7,779.97	7,779.97	63.53	156.07	-90.05	-9,698.35	720.29	6,483.98	6,297.69	186.29	34.806		
10,000.00	7,806.97	7,779.97	7,779.97	65.10	156.07	-90.05	-9,698.35	720.29	6,384.00	6,197.69	186.31	34.266		
10,100.00	7,806.97	7,779.97	7,779.97	66.69	156.07	-90.04	-9,698.35	720.29	6,284.02	6,097.69	186.32	33.726		
10,200.00	7,806.97	7,779.97	7,779.97	68.29	156.07	-90.04	-9,698.35	720.29	6,184.04	5,997.70	186.34	33.186		
10,300.00	7,806.97	7,779.97	7,779.97	69.89	156.07	-90.04	-9,698.35	720.29	6,084.06	5,897.70	186.36	32.647		
10,400.00	7,806.97	7,779.97	7,779.97	71.50	156.07	-90.04	-9,698.35	720.29	5,984.08	5,797.70	186.38	32.107		
10,500.00	7,806.97	7,779.97	7,779.97	73.12	156.07	-90.04	-9,698.35	720.29	5,884.10	5,697.70	186.40	31.567		
10,600.00	7,806.96	7,779.96	7,779.96	74.75	156.07	-90.04	-9,698.35	720.29	5,784.12	5,597.70	186.42	31.027		
10,700.00	7,806.96	7,779.96	7,779.96	76.38	156.07	-90.04	-9,698.35	720.29	5,684.15	5,497.71	186.44	30.488		
10,800.00	7,806.96	7,779.96	7,779.96	78.02	156.07	-90.04	-9,698.35	720.29	5,584.17	5,397.71	186.46	29.948		
10,900.00	7,806.96	7,779.96	7,779.96	79.66	156.07	-90.04	-9,698.35	720.29	5,484.20	5,297.71	186.48	29.408		
11,000.00	7,806.96	7,779.96	7,779.96	81.31	156.07	-90.04	-9,698.35	720.29	5,384.22	5,197.72	186.51	28.869		
11,100.00	7,806.96	7,779.96	7,779.96	82.97	156.07	-90.04	-9,698.35	720.29	5,284.25	5,097.72	186.53	28.329		
11,200.00	7,806.95	7,779.95	7,779.95	84.63	156.07	-90.04	-9,698.35	720.29	5,184.28	4,997.73	186.55	27.790		
11,300.00	7,806.95	7,779.95	7,779.95	86.29	156.07	-90.04	-9,698.35	720.29	5,084.31	4,897.73	186.57	27.251		
11,400.00	7,806.95	7,779.95	7,779.95	87.96	156.07	-90.04	-9,698.35	720.29	4,984.34	4,797.74	186.60	26.712		
11,500.00	7,806.95	7,779.95	7,779.95	89.64	156.07	-90.03	-9,698.35	720.29	4,884.37	4,697.75	186.62	26.172		
11,600.00	7,806.95	7,779.95	7,779.95	91.31	156.07	-90.03	-9,698.35	720.29	4,784.40	4,597.75	186.65	25.634		
11,700.00	7,806.95	7,779.95	7,779.95	92.99	156.07	-90.03	-9,698.35	720.29	4,684.43	4,497.76	186.67	25.095		
11,800.00	7,806.95	7,779.95	7,779.95	94.68	156.07	-90.03	-9,698.35	720.29	4,584.47	4,397.78	186.70	24.556		
11,900.00	7,806.94	7,779.94	7,779.94	96.36	156.07	-90.03	-9,698.35	720.29	4,484.51	4,297.79	186.72	24.017		
12,000.00	7,806.94	7,779.94	7,779.94	98.05	156.07	-90.03	-9,698.35	720.29	4,384.55	4,197.80	186.75	23.479		
12,100.00	7,806.94	7,779.94	7,779.94	99.74	156.07	-90.03	-9,698.35	720.29	4,284.59	4,097.82	186.77	22.940		
12,200.00	7,806.94	7,779.94	7,779.94	101.44	156.07	-90.03	-9,698.35	720.29	4,184.63	3,997.83	186.80	22.402		
12,300.00	7,806.94	7,779.94	7,779.94	103.14	156.07	-90.03	-9,698.35	720.29	4,084.68	3,897.85	186.82	21.864		
12,400.00	7,806.94	7,779.94	7,779.94	104.84	156.07	-90.03	-9,698.35	720.29	3,984.72	3,797.87	186.85	21.326		
12,500.00	7,806.93	7,779.93	7,779.93	106.54	156.07	-90.03	-9,698.35	720.29	3,884.77	3,697.90	186.87	20.788		
12,600.00	7,806.93	7,779.93	7,779.93	108.25	156.07	-90.03	-9,698.35	720.29	3,784.82	3,597.92	186.90	20.251		
12,700.00	7,806.93	7,779.93	7,779.93	109.95	156.07	-90.03	-9,698.35	720.29	3,684.88	3,497.95	186.93	19.713		
12,800.00	7,806.93	7,779.93	7,779.93	111.66	156.07	-90.03	-9,698.35	720.29	3,584.94	3,397.98	186.95	19.176		
12,900.00	7,806.93	7,779.93	7,779.93	113.37	156.07	-90.02	-9,698.35	720.29	3,485.00	3,298.02	186.98	18.638		
13,000.00	7,806.93	7,779.93	7,779.93	115.09	156.07	-90.02	-9,698.35	720.29	3,385.06	3,198.06	187.01	18.101		
13,100.00	7,806.93	7,779.93	7,779.93	116.80	156.07	-90.02	-9,698.35	720.29	3,285.13	3,098.10	187.03	17.564		
13,200.00	7,806.92	7,779.92	7,779.92	118.52	156.07	-90.02	-9,698.35	720.29	3,185.21	2,998.15	187.06	17.028		
13,300.00	7,806.92	7,779.92	7,779.92	120.24	156.07	-90.02	-9,698.35	720.29	3,085.28	2,898.20	187.09	16.491		
13,400.00	7,806.92	7,779.92	7,779.92	121.96	156.07	-90.02	-9,698.35	720.29	2,985.37	2,798.25	187.12	15.955		
13,500.00	7,806.92	7,779.92	7,779.92	123.68	156.07	-90.02	-9,698.35	720.29	2,885.46	2,698.31	187.14	15.418		
13,600.00	7,806.92	7,779.92	7,779.92	125.40	156.07	-90.02	-9,698.35	720.29	2,785.55	2,598.38	187.17	14.882		
13,700.00	7,806.92	7,779.92	7,779.92	127.12	156.07	-90.02	-9,698.35	720.29	2,685.65	2,498.45	187.20	14.346		
13,800.00	7,806.91	7,779.91	7,779.91	128.85	156.07	-90.02	-9,698.35	720.29	2,585.76	2,398.53	187.24	13.810		
13,900.00	7,806.91	7,779.91	7,779.91	130.58	156.07	-90.02	-9,698.35	720.29	2,485.88	2,298.61	187.27	13.274		
14,000.00	7,806.91	7,779.91	7,779.91	132.30	156.07	-90.02	-9,698.35	720.29	2,386.01	2,198.71	187.31	12.739		
14,100.00	7,806.91	7,779.91	7,779.91	134.03	156.07	-90.02	-9,698.35	720.29	2,286.15	2,098.81	187.34	12.203		
14,200.00	7,806.91	7,779.91	7,779.91	135.76	156.07	-90.02	-9,698.35	720.29	2,186.31	1,998.92	187.39	11.667		

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-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	Output errors are at	2.00 sigma
Reference Wellbore	ORIGINAL WELLBORE	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	
14,300.00	7,806.91	7,779.91	7,779.91	137.50	156.07	-90.01	-9,698.35	720.29	2,086.48	1,899.04	187.43	11.132	
14,400.00	7,806.91	7,779.91	7,779.91	139.23	156.07	-90.01	-9,698.35	720.29	1,986.66	1,799.17	187.49	10.596	
14,500.00	7,806.90	7,779.90	7,779.90	140.96	156.07	-90.01	-9,698.35	720.29	1,886.87	1,699.31	187.55	10.060	
14,600.00	7,806.90	7,779.90	7,779.90	142.70	156.07	-90.01	-9,698.35	720.29	1,787.09	1,599.46	187.63	9.525	
14,700.00	7,806.90	7,779.90	7,779.90	144.43	156.07	-90.01	-9,698.35	720.29	1,687.35	1,499.63	187.72	8.989	
14,800.00	7,806.90	7,779.90	7,779.90	146.17	156.07	-90.01	-9,698.35	720.29	1,587.63	1,399.80	187.83	8.452	
14,900.00	7,806.90	7,779.90	7,779.90	147.91	156.07	-90.01	-9,698.35	720.29	1,487.96	1,299.98	187.98	7.916	
15,000.00	7,806.90	7,779.90	7,779.90	149.64	156.07	-90.01	-9,698.35	720.29	1,388.33	1,200.17	188.16	7.378	
15,100.00	7,806.89	7,779.89	7,779.89	151.38	156.07	-90.01	-9,698.35	720.29	1,288.76	1,100.35	188.41	6.840	
15,200.00	7,806.89	7,779.89	7,779.89	153.12	156.07	-90.01	-9,698.35	720.29	1,189.26	1,000.53	188.73	6.301	
15,300.00	7,806.89	7,779.89	7,779.89	154.86	156.07	-90.01	-9,698.35	720.29	1,089.85	900.68	189.17	5.761	
15,400.00	7,806.89	7,779.89	7,779.89	156.60	156.07	-90.01	-9,698.35	720.29	990.57	800.78	189.79	5.219	
15,500.00	7,806.89	7,779.89	7,779.89	158.35	156.07	-90.01	-9,698.35	720.29	891.44	700.78	190.66	4.676	
15,600.00	7,806.89	7,779.89	7,779.89	160.09	156.07	-90.01	-9,698.35	720.29	792.53	600.61	191.92	4.129	
15,700.00	7,806.89	7,779.89	7,779.89	161.83	156.07	-90.00	-9,698.35	720.29	693.93	500.13	193.81	3.581	
15,800.00	7,806.88	7,779.88	7,779.88	163.57	156.07	-90.00	-9,698.35	720.29	595.81	399.09	196.71	3.029	
15,900.00	7,806.88	7,779.88	7,779.88	165.32	156.07	-90.00	-9,698.35	720.29	498.42	297.07	201.35	2.475	
16,000.00	7,806.88	7,779.88	7,779.88	167.06	156.07	-90.00	-9,698.35	720.29	402.33	193.23	209.09	1.924	
16,100.00	7,806.88	7,779.88	7,779.88	168.81	156.07	-90.00	-9,698.35	720.29	308.72	85.98	222.74	1.386	Level 3
16,200.00	7,806.88	7,779.88	7,779.88	170.56	156.07	-90.00	-9,698.35	720.29	220.79	-27.60	248.39	0.889	Level 1
16,300.00	7,806.88	7,779.88	7,779.88	172.30	156.07	-90.00	-9,698.35	720.29	148.96	-146.47	295.42	0.504	Level 1
16,382.80	7,806.87	7,779.87	7,779.87	173.75	156.07	-90.00	-9,698.35	720.29	123.82	-205.76	329.58	0.376	Level 1, CC, ES, SF
16,400.00	7,806.87	7,779.87	7,779.87	174.05	156.07	-90.00	-9,698.35	720.29	125.01	-204.49	329.50	0.379	Level 1
16,500.00	7,806.87	7,779.87	7,779.87	175.80	156.07	-90.00	-9,698.35	720.29	170.49	-121.04	291.53	0.585	Level 1
16,600.00	7,806.87	7,779.87	7,779.87	177.55	156.07	-90.00	-9,698.35	720.29	250.02	-5.74	255.76	0.978	Level 1
16,700.00	7,806.87	7,779.87	7,779.87	179.30	156.07	-90.00	-9,698.35	720.29	340.51	104.89	235.63	1.445	Level 3
16,800.00	7,806.87	7,779.87	7,779.87	181.04	156.07	-90.00	-9,698.35	720.29	435.19	211.28	223.91	1.944	
16,900.00	7,806.87	7,779.87	7,779.87	182.79	156.07	-90.00	-9,698.35	720.29	531.82	315.26	216.56	2.456	
17,000.00	7,806.87	7,779.87	7,779.87	184.54	156.07	-90.00	-9,698.35	720.29	629.50	417.85	211.65	2.974	
17,100.00	7,806.86	7,779.86	7,779.86	186.30	156.07	-89.99	-9,698.35	720.29	727.81	519.62	208.20	3.496	
17,200.00	7,806.86	7,779.86	7,779.86	188.05	156.07	-89.99	-9,698.35	720.29	826.53	620.85	205.68	4.019	
17,300.00	7,806.86	7,779.86	7,779.86	189.80	156.07	-89.99	-9,698.35	720.29	925.52	721.74	203.78	4.542	
17,400.00	7,806.86	7,779.86	7,779.86	191.55	156.07	-89.99	-9,698.35	720.29	1,024.71	822.39	202.32	5.065	
17,500.00	7,806.86	7,779.86	7,779.86	193.30	156.06	-89.99	-9,698.35	720.29	1,124.04	922.88	201.17	5.588	
17,600.00	7,806.86	7,779.86	7,779.86	195.06	156.06	-89.99	-9,698.35	720.29	1,223.48	1,023.24	200.24	6.110	
17,700.00	7,806.85	7,779.85	7,779.85	196.81	156.06	-89.99	-9,698.35	720.29	1,323.01	1,123.51	199.50	6.632	
17,800.00	7,806.85	7,779.85	7,779.85	198.56	156.06	-89.99	-9,698.35	720.29	1,422.60	1,223.71	198.89	7.153	
17,898.35	7,807.00	7,780.00	7,780.00	200.29	156.07	-89.99	-9,698.35	720.29	1,520.60	1,322.21	198.39	7.665	

Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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

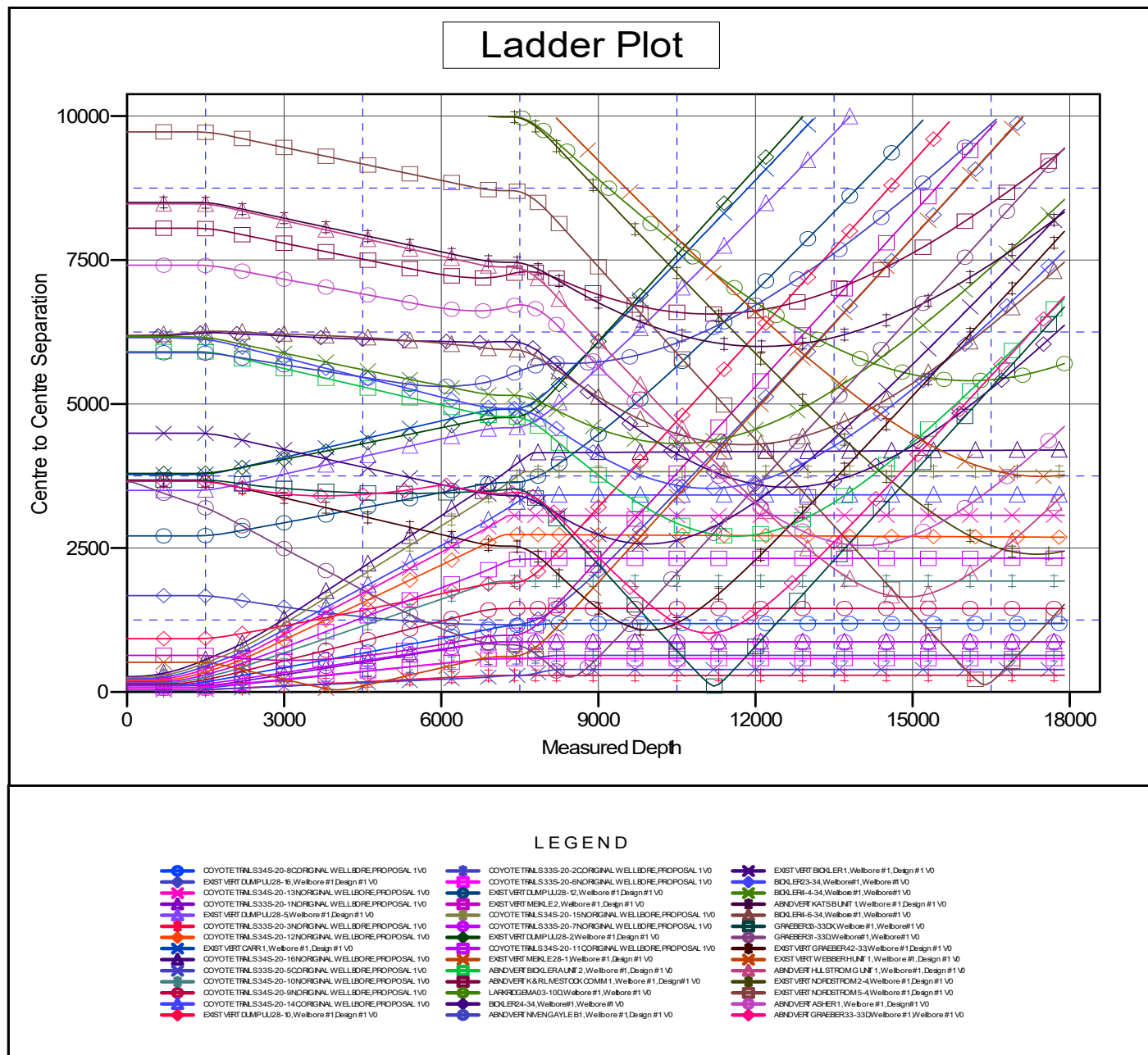
Offset Depths are relative to Offset Datum

Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-4N

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°



Anticollision Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well COYOTE TRAILS 33S-20-4N
Project:	Weld County	TVD Reference:	KB 25' @ 5269.00usft
Reference Site:	Sec 28-T1N-R68W	MD Reference:	KB 25' @ 5269.00usft
Site Error:	0.00 usft	North Reference:	True
Reference Well:	COYOTE TRAILS 33S-20-4N	Survey Calculation Method:	Minimum Curvature
Well Error:	0.00 usft	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

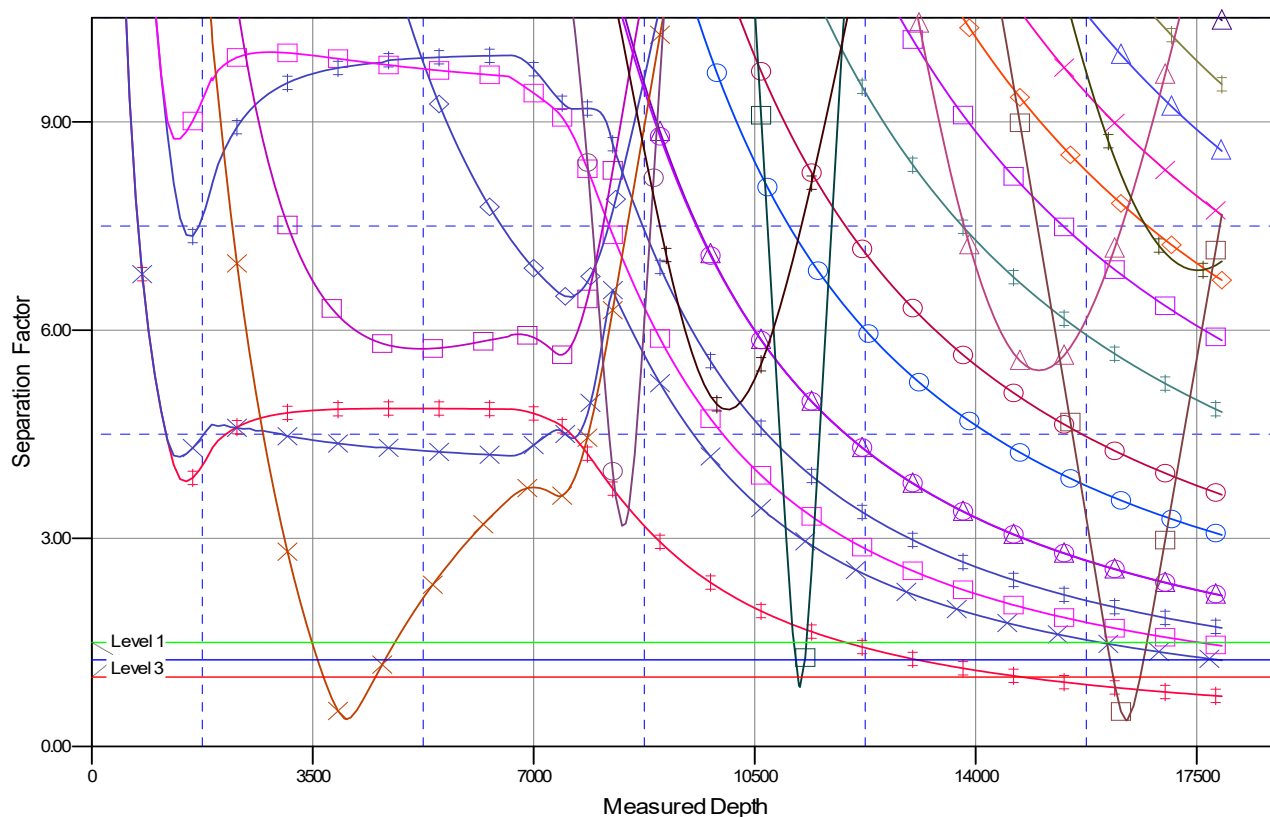
Central Meridian is 105° 30' 0.000 W

Coordinates are relative to: COYOTE TRAILS 33S-20-4N

Coordinate System is US State Plane 1983, Colorado Northern Zone

Grid Convergence at Surface is: 0.32°

Separation Factor Plot



LEGEND

COYOTETRL33S-20-8CORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-2CORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT BOKLER1, Wellbore #1, Design #1 V0
EXIST VERT DUMPLU28-15, Wellbore #1, Design #1 V0	COYOTETRL33S-20-6NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER23-34, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-13NORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT DUMPLU28-12, Wellbore #1, Design #1 V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
EXIST VERT DUMPLU28-5, Wellbore #1, Design #1 V0	EXIST VERT MEKLE2, Wellbore #1, Design #1 V0	ABNDVERT KATSBUNT 1, Wellbore #1, Design #1 V0
COYOTETRL33S-20-3NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-15NORIGINAL WELLBORE,PROPOSAL 1V0	BOKLER4-34, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-12NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-7NORIGINAL WELLBORE,PROPOSAL 1V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
EXIST VERT CARR1, Wellbore #1, Design #1 V0	EXIST VERT DUMPLU28-2, Wellbore #1, Design #1 V0	GRABER33-33D, Wellbore #1, Wellbore #1 V0
COYOTETRL33S-20-16NORIGINAL WELLBORE,PROPOSAL 1V0	COYOTETRL33S-20-11CORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT GRABER42-33, Wellbore #1, Design #1 V0
COYOTETRL33S-20-5CORIGINAL WELLBORE,PROPOSAL 1V0	EXIST VERT MEKLE28-1, Wellbore #1, Design #1 V0	EXIST VERT WEBBERHUNT 1, Wellbore #1, Design #1 V0
COYOTETRL33S-20-10NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT BOKLER4, Wellbore #1, Design #1 V0	ABNDVERT HLLSTROM G, Wellbore #1, Design #1 V0
COYOTETRL33S-20-9NORIGINAL WELLBORE,PROPOSAL 1V0	ABNDVERT KARLWEST COCK COOM 1, Wellbore #1, Design #1 V0	EXIST VERT NORDSTROM 2-4, Wellbore #1, Design #1 V0
COYOTETRL33S-20-14CORIGINAL WELLBORE,PROPOSAL 1V0	LARROSBEMAD3-10D, Wellbore #1, Wellbore #1 V0	EXIST VERT NORDSTROM 5-4, Wellbore #1, Design #1 V0
EXIST VERT DUMPLU28-10, Wellbore #1, Design #1 V0	BOKLER24-34, Wellbore #1, Wellbore #1 V0	ABNDVERT ASHER1, Wellbore #1, Design #1 V0
	ABNDVERT NIVENGAYLEB1, Wellbore #1, Design #1 V0	ABNDVERT GRABER33-33D, Wellbore #1, Wellbore #1 V0