

EXTRACTION OIL & GAS

WELD COUNTY

Sec 28-T1N-R68W

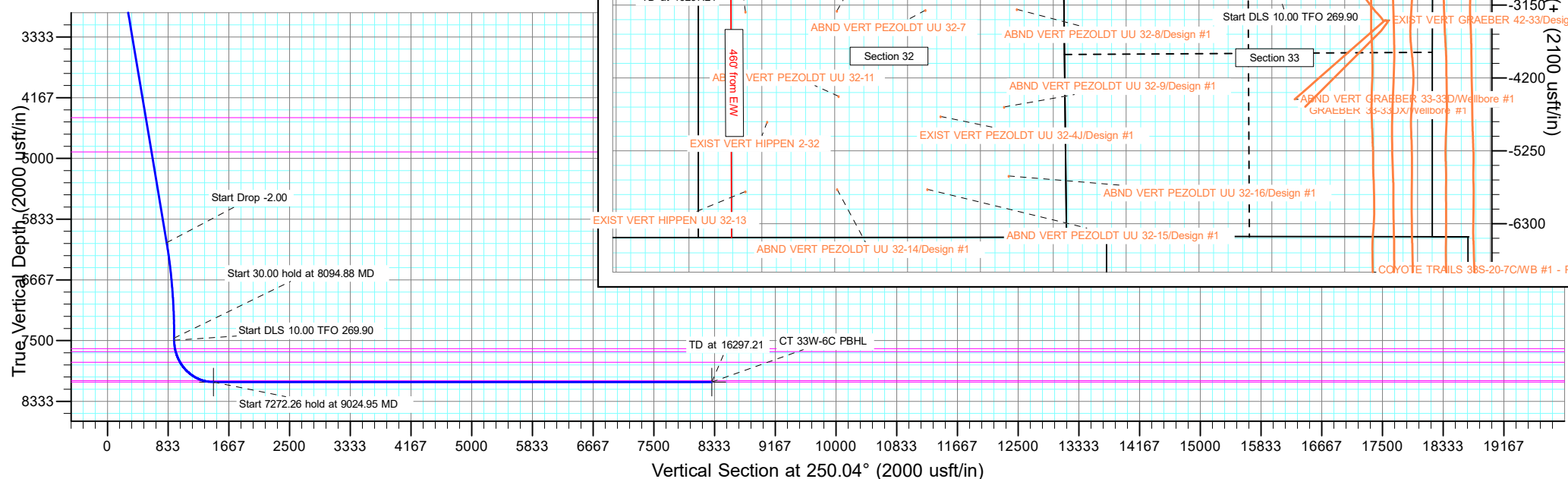
COYOTE TRAILS 33W-15-6C

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

07 June, 2018



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-6C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5269.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 5269.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Project	WELD COUNTY		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 28-T1N-R68W			
Site Position:		Northing:	1,248,660.21 usft	Latitude:	40° 0' 53.536 N
From:	Lat/Long	Easting:	3,140,299.83 usft	Longitude:	104° 59' 56.731 W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.32 °

Well	COYOTE TRAILS 33W-15-6C					
Well Position	+N/-S	1,181.80 usft	Northing:	1,249,828.94 usft	Latitude:	40° 1' 5.214 N
	+E/-W	-2,311.21 usft	Easting:	3,137,981.98 usft	Longitude:	105° 0' 26.438 W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,244.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/29/2017	8.30	66.51	52,160.03908602

Design	PROPOSAL 1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	250.04

Plan Survey Tool Program	Date	6/7/2018		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,297.21	PROPOSAL 1 (ORIGINAL WELL	MWD OWSG
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,961.10	27.22	179.01	1,910.47	-317.25	5.48	2.00	2.00	0.00	179.01	
6,733.79	27.22	179.01	6,154.53	-2,500.15	43.15	0.00	0.00	0.00	0.00	
8,094.89	0.00	0.00	7,465.00	-2,817.40	48.63	2.00	-2.00	0.00	180.00	
8,124.89	0.00	0.00	7,495.00	-2,817.40	48.63	0.00	0.00	0.00	0.00	
9,024.95	90.00	269.90	8,068.00	-2,818.37	-524.37	10.00	10.00	-10.01	269.90	CT 33W-6C LP
16,297.21	90.00	269.90	8,068.00	-2,831.00	-7,796.61	0.00	0.00	0.00	0.00	CT 33W-6C PBHL

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Well:	COYOTE TRAILS 33W-15-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
700.00	2.00	179.01	699.98	-1.74	0.03	0.57	2.00	2.00	0.00
800.00	4.00	179.01	799.84	-6.98	0.12	2.27	2.00	2.00	0.00
900.00	6.00	179.01	899.45	-15.69	0.27	5.10	2.00	2.00	0.00
1,000.00	8.00	179.01	998.70	-27.88	0.48	9.06	2.00	2.00	0.00
1,100.00	10.00	179.01	1,097.47	-43.52	0.75	14.15	2.00	2.00	0.00
1,200.00	12.00	179.01	1,195.62	-62.59	1.08	20.35	2.00	2.00	0.00
1,300.00	14.00	179.01	1,293.06	-85.08	1.47	27.66	2.00	2.00	0.00
1,400.00	16.00	179.01	1,389.64	-110.96	1.92	36.07	2.00	2.00	0.00
1,500.00	18.00	179.01	1,485.27	-140.19	2.42	45.57	2.00	2.00	0.00
1,600.00	20.00	179.01	1,579.82	-172.74	2.98	56.15	2.00	2.00	0.00
1,700.00	22.00	179.01	1,673.17	-208.57	3.60	67.80	2.00	2.00	0.00
1,800.00	24.00	179.01	1,765.21	-247.64	4.27	80.50	2.00	2.00	0.00
1,900.00	26.00	179.01	1,855.84	-289.89	5.00	94.24	2.00	2.00	0.00
1,961.10	27.22	179.01	1,910.47	-317.25	5.48	103.13	2.00	2.00	0.00
Start 4772.69 hold at 1961.10 MD									
2,000.00	27.22	179.01	1,945.06	-335.05	5.78	108.92	0.00	0.00	0.00
2,100.00	27.22	179.01	2,033.98	-380.78	6.57	123.78	0.00	0.00	0.00
2,200.00	27.22	179.01	2,122.91	-426.52	7.36	138.65	0.00	0.00	0.00
2,300.00	27.22	179.01	2,211.83	-472.26	8.15	153.52	0.00	0.00	0.00
2,400.00	27.22	179.01	2,300.75	-518.00	8.94	168.39	0.00	0.00	0.00
2,500.00	27.22	179.01	2,389.68	-563.73	9.73	183.26	0.00	0.00	0.00
2,600.00	27.22	179.01	2,478.60	-609.47	10.52	198.13	0.00	0.00	0.00
2,700.00	27.22	179.01	2,567.53	-655.21	11.31	212.99	0.00	0.00	0.00
2,800.00	27.22	179.01	2,656.45	-700.94	12.10	227.86	0.00	0.00	0.00
2,900.00	27.22	179.01	2,745.38	-746.68	12.89	242.73	0.00	0.00	0.00
3,000.00	27.22	179.01	2,834.30	-792.42	13.68	257.60	0.00	0.00	0.00
3,100.00	27.22	179.01	2,923.22	-838.16	14.47	272.47	0.00	0.00	0.00
3,200.00	27.22	179.01	3,012.15	-883.89	15.26	287.33	0.00	0.00	0.00
3,300.00	27.22	179.01	3,101.07	-929.63	16.05	302.20	0.00	0.00	0.00
3,400.00	27.22	179.01	3,190.00	-975.37	16.84	317.07	0.00	0.00	0.00
3,500.00	27.22	179.01	3,278.92	-1,021.10	17.62	331.94	0.00	0.00	0.00
3,600.00	27.22	179.01	3,367.84	-1,066.84	18.41	346.81	0.00	0.00	0.00
3,700.00	27.22	179.01	3,456.77	-1,112.58	19.20	361.68	0.00	0.00	0.00
3,800.00	27.22	179.01	3,545.69	-1,158.32	19.99	376.54	0.00	0.00	0.00
3,900.00	27.22	179.01	3,634.62	-1,204.05	20.78	391.41	0.00	0.00	0.00
4,000.00	27.22	179.01	3,723.54	-1,249.79	21.57	406.28	0.00	0.00	0.00
4,100.00	27.22	179.01	3,812.46	-1,295.53	22.36	421.15	0.00	0.00	0.00
4,200.00	27.22	179.01	3,901.39	-1,341.26	23.15	436.02	0.00	0.00	0.00
4,300.00	27.22	179.01	3,990.31	-1,387.00	23.94	450.88	0.00	0.00	0.00
4,400.00	27.22	179.01	4,079.24	-1,432.74	24.73	465.75	0.00	0.00	0.00
4,500.00	27.22	179.01	4,168.16	-1,478.48	25.52	480.62	0.00	0.00	0.00
4,600.00	27.22	179.01	4,257.08	-1,524.21	26.31	495.49	0.00	0.00	0.00
4,700.00	27.22	179.01	4,346.01	-1,569.95	27.10	510.36	0.00	0.00	0.00
4,800.00	27.22	179.01	4,434.93	-1,615.69	27.89	525.23	0.00	0.00	0.00
4,805.70	27.22	179.01	4,440.00	-1,618.29	27.93	526.07	0.00	0.00	0.00

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Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
PARKMAN									
4,900.00	27.22	179.01	4,523.86	-1,661.42	28.68	540.09	0.00	0.00	0.00
5,000.00	27.22	179.01	4,612.78	-1,707.16	29.47	554.96	0.00	0.00	0.00
5,100.00	27.22	179.01	4,701.70	-1,752.90	30.26	569.83	0.00	0.00	0.00
5,200.00	27.22	179.01	4,790.63	-1,798.64	31.05	584.70	0.00	0.00	0.00
5,300.00	27.22	179.01	4,879.55	-1,844.37	31.83	599.57	0.00	0.00	0.00
5,334.24	27.22	179.01	4,910.00	-1,860.03	32.11	604.66	0.00	0.00	0.00
SUSSEX									
5,400.00	27.22	179.01	4,968.48	-1,890.11	32.62	614.43	0.00	0.00	0.00
5,500.00	27.22	179.01	5,057.40	-1,935.85	33.41	629.30	0.00	0.00	0.00
5,600.00	27.22	179.01	5,146.33	-1,981.58	34.20	644.17	0.00	0.00	0.00
5,700.00	27.22	179.01	5,235.25	-2,027.32	34.99	659.04	0.00	0.00	0.00
5,800.00	27.22	179.01	5,324.17	-2,073.06	35.78	673.91	0.00	0.00	0.00
5,900.00	27.22	179.01	5,413.10	-2,118.80	36.57	688.78	0.00	0.00	0.00
6,000.00	27.22	179.01	5,502.02	-2,164.53	37.36	703.64	0.00	0.00	0.00
6,100.00	27.22	179.01	5,590.95	-2,210.27	38.15	718.51	0.00	0.00	0.00
6,200.00	27.22	179.01	5,679.87	-2,256.01	38.94	733.38	0.00	0.00	0.00
6,300.00	27.22	179.01	5,768.79	-2,301.74	39.73	748.25	0.00	0.00	0.00
6,400.00	27.22	179.01	5,857.72	-2,347.48	40.52	763.12	0.00	0.00	0.00
6,500.00	27.22	179.01	5,946.64	-2,393.22	41.31	777.98	0.00	0.00	0.00
6,600.00	27.22	179.01	6,035.57	-2,438.96	42.10	792.85	0.00	0.00	0.00
6,700.00	27.22	179.01	6,124.49	-2,484.69	42.89	807.72	0.00	0.00	0.00
6,733.79	27.22	179.01	6,154.53	-2,500.15	43.15	812.74	0.00	0.00	0.00
Start Drop -2.00									
6,800.00	25.90	179.01	6,213.76	-2,529.75	43.66	822.37	2.00	-2.00	0.00
6,900.00	23.90	179.01	6,304.46	-2,571.84	44.39	836.05	2.00	-2.00	0.00
7,000.00	21.90	179.01	6,396.58	-2,610.74	45.06	848.70	2.00	-2.00	0.00
7,100.00	19.90	179.01	6,489.99	-2,646.40	45.68	860.29	2.00	-2.00	0.00
7,200.00	17.90	179.01	6,584.60	-2,678.78	46.24	870.82	2.00	-2.00	0.00
7,300.00	15.90	179.01	6,680.28	-2,707.84	46.74	880.26	2.00	-2.00	0.00
7,400.00	13.90	179.01	6,776.91	-2,733.55	47.18	888.62	2.00	-2.00	0.00
7,500.00	11.90	179.01	6,874.38	-2,755.87	47.57	895.87	2.00	-2.00	0.00
7,600.00	9.90	179.01	6,972.57	-2,774.77	47.89	902.02	2.00	-2.00	0.00
7,700.00	7.90	179.01	7,071.36	-2,790.23	48.16	907.04	2.00	-2.00	0.00
7,800.00	5.90	179.01	7,170.64	-2,802.24	48.37	910.95	2.00	-2.00	0.00
7,900.00	3.90	179.01	7,270.27	-2,810.77	48.52	913.72	2.00	-2.00	0.00
8,000.00	1.90	179.01	7,370.13	-2,815.83	48.60	915.37	2.00	-2.00	0.00
8,094.89	0.00	0.00	7,465.00	-2,817.40	48.63	915.88	2.00	-2.00	0.00
Start 30.00 hold at 8094.88 MD									
8,100.00	0.00	0.00	7,470.12	-2,817.40	48.63	915.88	0.00	0.00	0.00
8,124.89	0.00	0.00	7,495.00	-2,817.40	48.63	915.88	0.00	0.00	0.00
Start DLS 10.00 TFO 269.90									
8,150.00	2.51	269.90	7,520.11	-2,817.40	48.08	916.39	10.00	10.00	0.00
8,200.00	7.51	269.90	7,569.90	-2,817.41	43.71	920.50	10.00	10.00	0.00
8,240.67	11.58	269.90	7,610.00	-2,817.42	36.97	926.84	10.00	10.00	0.00
SHARON SPRINGS									
8,250.00	12.51	269.90	7,619.12	-2,817.42	35.02	928.67	10.00	10.00	0.00
8,281.84	15.69	269.90	7,650.00	-2,817.44	27.27	935.97	10.00	10.00	0.00
NIOBRARA									
8,300.00	17.51	269.90	7,667.40	-2,817.45	22.08	940.85	10.00	10.00	0.00
8,350.00	22.51	269.90	7,714.37	-2,817.47	4.98	956.94	10.00	10.00	0.00
8,400.00	27.51	269.90	7,759.67	-2,817.51	-16.16	976.81	10.00	10.00	0.00
8,442.97	31.81	269.90	7,797.00	-2,817.55	-37.42	996.80	10.00	10.00	0.00

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Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
NIO B									
8,450.00	32.51	269.90	7,802.95	-2,817.55	-41.16	1,000.32	10.00	10.00	0.00
8,500.00	37.51	269.90	7,843.89	-2,817.60	-69.83	1,027.29	10.00	10.00	0.00
8,550.00	42.51	269.90	7,882.18	-2,817.66	-101.97	1,057.52	10.00	10.00	0.00
8,600.00	47.51	269.90	7,917.51	-2,817.72	-137.32	1,090.76	10.00	10.00	0.00
8,650.00	52.51	269.90	7,949.64	-2,817.78	-175.61	1,126.78	10.00	10.00	0.00
8,700.00	57.51	269.90	7,978.30	-2,817.85	-216.56	1,165.29	10.00	10.00	0.00
8,750.00	62.51	269.90	8,003.29	-2,817.92	-259.85	1,206.01	10.00	10.00	0.00
8,800.00	67.51	269.90	8,024.41	-2,818.00	-305.15	1,248.62	10.00	10.00	0.00
8,850.00	72.51	269.90	8,041.50	-2,818.08	-352.12	1,292.80	10.00	10.00	0.00
8,873.11	74.82	269.90	8,048.00	-2,818.12	-374.30	1,313.66	10.00	10.00	0.00
FORT HAYS									
8,900.00	77.51	269.90	8,054.43	-2,818.16	-400.41	1,338.21	10.00	10.00	0.00
8,950.00	82.51	269.90	8,063.11	-2,818.25	-449.63	1,384.51	10.00	10.00	0.00
9,000.00	87.51	269.90	8,067.46	-2,818.33	-499.43	1,431.34	10.00	10.00	0.00
9,024.95	90.00	269.90	8,068.00	-2,818.37	-524.37	1,454.80	10.00	10.00	0.00
Start 7272.26 hold at 9024.95 MD - CODELL									
9,100.00	90.00	269.90	8,068.00	-2,818.50	-599.42	1,525.39	0.00	0.00	0.00
9,200.00	90.00	269.90	8,068.00	-2,818.67	-699.42	1,619.44	0.00	0.00	0.00
9,300.00	90.00	269.90	8,068.00	-2,818.84	-799.42	1,713.49	0.00	0.00	0.00
9,400.00	90.00	269.90	8,068.00	-2,819.01	-899.42	1,807.55	0.00	0.00	0.00
9,500.00	90.00	269.90	8,068.00	-2,819.18	-999.42	1,901.60	0.00	0.00	0.00
9,600.00	90.00	269.90	8,068.00	-2,819.35	-1,099.42	1,995.65	0.00	0.00	0.00
9,700.00	90.00	269.90	8,068.00	-2,819.52	-1,199.42	2,089.71	0.00	0.00	0.00
9,800.00	90.00	269.90	8,068.00	-2,819.69	-1,299.42	2,183.76	0.00	0.00	0.00
9,900.00	90.00	269.90	8,068.00	-2,819.86	-1,399.42	2,277.81	0.00	0.00	0.00
10,000.00	90.00	269.90	8,068.00	-2,820.03	-1,499.42	2,371.87	0.00	0.00	0.00
10,100.00	90.00	269.90	8,068.00	-2,820.20	-1,599.42	2,465.92	0.00	0.00	0.00
10,200.00	90.00	269.90	8,068.00	-2,820.37	-1,699.42	2,559.97	0.00	0.00	0.00
10,300.00	90.00	269.90	8,068.00	-2,820.54	-1,799.42	2,654.02	0.00	0.00	0.00
10,400.00	90.00	269.90	8,068.00	-2,820.71	-1,899.42	2,748.08	0.00	0.00	0.00
10,500.00	90.00	269.90	8,068.00	-2,820.88	-1,999.42	2,842.13	0.00	0.00	0.00
10,600.00	90.00	269.90	8,068.00	-2,821.05	-2,099.42	2,936.18	0.00	0.00	0.00
10,700.00	90.00	269.90	8,068.00	-2,821.22	-2,199.42	3,030.24	0.00	0.00	0.00
10,800.00	90.00	269.90	8,068.00	-2,821.39	-2,299.42	3,124.29	0.00	0.00	0.00
10,900.00	90.00	269.90	8,068.00	-2,821.56	-2,399.42	3,218.34	0.00	0.00	0.00
11,000.00	90.00	269.90	8,068.01	-2,821.73	-2,499.42	3,312.40	0.00	0.00	0.00
11,100.00	90.00	269.90	8,068.01	-2,821.90	-2,599.42	3,406.45	0.00	0.00	0.00
11,200.00	90.00	269.90	8,068.01	-2,822.07	-2,699.41	3,500.50	0.00	0.00	0.00
11,300.00	90.00	269.90	8,068.01	-2,822.24	-2,799.41	3,594.56	0.00	0.00	0.00
11,400.00	90.00	269.90	8,068.01	-2,822.40	-2,899.41	3,688.61	0.00	0.00	0.00
11,500.00	90.00	269.90	8,068.01	-2,822.57	-2,999.41	3,782.66	0.00	0.00	0.00
11,600.00	90.00	269.90	8,068.01	-2,822.74	-3,099.41	3,876.72	0.00	0.00	0.00
11,700.00	90.00	269.90	8,068.01	-2,822.91	-3,199.41	3,970.77	0.00	0.00	0.00
11,800.00	90.00	269.90	8,068.01	-2,823.08	-3,299.41	4,064.82	0.00	0.00	0.00
11,900.00	90.00	269.90	8,068.01	-2,823.25	-3,399.41	4,158.88	0.00	0.00	0.00
12,000.00	90.00	269.90	8,068.01	-2,823.42	-3,499.41	4,252.93	0.00	0.00	0.00
12,100.00	90.00	269.90	8,068.01	-2,823.59	-3,599.41	4,346.98	0.00	0.00	0.00
12,200.00	90.00	269.90	8,068.01	-2,823.76	-3,699.41	4,441.03	0.00	0.00	0.00
12,300.00	90.00	269.90	8,068.01	-2,823.93	-3,799.41	4,535.09	0.00	0.00	0.00
12,400.00	90.00	269.90	8,068.01	-2,824.10	-3,899.41	4,629.14	0.00	0.00	0.00
12,500.00	90.00	269.90	8,068.01	-2,824.27	-3,999.41	4,723.19	0.00	0.00	0.00
12,600.00	90.00	269.90	8,068.01	-2,824.44	-4,099.41	4,817.25	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-6C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5269.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 5269.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
12,700.00	90.00	269.90	8,068.01	-2,824.61	-4,199.41	4,911.30	0.00	0.00	0.00	
12,800.00	90.00	269.90	8,068.01	-2,824.78	-4,299.41	5,005.35	0.00	0.00	0.00	
12,900.00	90.00	269.90	8,068.01	-2,824.95	-4,399.41	5,099.41	0.00	0.00	0.00	
13,000.00	90.00	269.90	8,068.01	-2,825.12	-4,499.41	5,193.46	0.00	0.00	0.00	
13,100.00	90.00	269.90	8,068.01	-2,825.29	-4,599.41	5,287.51	0.00	0.00	0.00	
13,200.00	90.00	269.90	8,068.01	-2,825.46	-4,699.41	5,381.57	0.00	0.00	0.00	
13,300.00	90.00	269.90	8,068.01	-2,825.63	-4,799.41	5,475.62	0.00	0.00	0.00	
13,400.00	90.00	269.90	8,068.01	-2,825.80	-4,899.41	5,569.67	0.00	0.00	0.00	
13,500.00	90.00	269.90	8,068.01	-2,825.97	-4,999.41	5,663.73	0.00	0.00	0.00	
13,600.00	90.00	269.90	8,068.01	-2,826.14	-5,099.41	5,757.78	0.00	0.00	0.00	
13,700.00	90.00	269.90	8,068.01	-2,826.31	-5,199.41	5,851.83	0.00	0.00	0.00	
13,800.00	90.00	269.90	8,068.01	-2,826.48	-5,299.41	5,945.88	0.00	0.00	0.00	
13,900.00	90.00	269.90	8,068.01	-2,826.65	-5,399.41	6,039.94	0.00	0.00	0.00	
14,000.00	90.00	269.90	8,068.01	-2,826.82	-5,499.41	6,133.99	0.00	0.00	0.00	
14,100.00	90.00	269.90	8,068.01	-2,826.99	-5,599.41	6,228.04	0.00	0.00	0.00	
14,200.00	90.00	269.90	8,068.01	-2,827.16	-5,699.41	6,322.10	0.00	0.00	0.00	
14,300.00	90.00	269.90	8,068.01	-2,827.33	-5,799.41	6,416.15	0.00	0.00	0.00	
14,400.00	90.00	269.90	8,068.01	-2,827.50	-5,899.41	6,510.20	0.00	0.00	0.00	
14,500.00	90.00	269.90	8,068.01	-2,827.67	-5,999.41	6,604.26	0.00	0.00	0.00	
14,600.00	90.00	269.90	8,068.01	-2,827.84	-6,099.41	6,698.31	0.00	0.00	0.00	
14,700.00	90.00	269.90	8,068.01	-2,828.01	-6,199.41	6,792.36	0.00	0.00	0.00	
14,800.00	90.00	269.90	8,068.01	-2,828.18	-6,299.41	6,886.42	0.00	0.00	0.00	
14,900.00	90.00	269.90	8,068.02	-2,828.35	-6,399.41	6,980.47	0.00	0.00	0.00	
15,000.00	90.00	269.90	8,068.02	-2,828.52	-6,499.41	7,074.52	0.00	0.00	0.00	
15,100.00	90.00	269.90	8,068.02	-2,828.69	-6,599.41	7,168.58	0.00	0.00	0.00	
15,200.00	90.00	269.90	8,068.02	-2,828.86	-6,699.41	7,262.63	0.00	0.00	0.00	
15,300.00	90.00	269.90	8,068.02	-2,829.03	-6,799.41	7,356.68	0.00	0.00	0.00	
15,400.00	90.00	269.90	8,068.02	-2,829.20	-6,899.41	7,450.74	0.00	0.00	0.00	
15,500.00	90.00	269.90	8,068.02	-2,829.37	-6,999.41	7,544.79	0.00	0.00	0.00	
15,600.00	90.00	269.90	8,068.02	-2,829.54	-7,099.41	7,638.84	0.00	0.00	0.00	
15,700.00	90.00	269.90	8,068.02	-2,829.70	-7,199.41	7,732.89	0.00	0.00	0.00	
15,800.00	90.00	269.90	8,068.02	-2,829.87	-7,299.41	7,826.95	0.00	0.00	0.00	
15,900.00	90.00	269.90	8,068.02	-2,830.04	-7,399.41	7,921.00	0.00	0.00	0.00	
16,000.00	90.00	269.90	8,068.02	-2,830.21	-7,499.41	8,015.05	0.00	0.00	0.00	
16,100.00	90.00	269.90	8,068.02	-2,830.38	-7,599.41	8,109.11	0.00	0.00	0.00	
16,200.00	90.00	269.90	8,068.02	-2,830.55	-7,699.41	8,203.16	0.00	0.00	0.00	
16,297.21	90.00	269.90	8,068.02	-2,830.72	-7,796.61	8,294.59	0.00	0.00	0.00	
TD at 16297.21										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
CT 33W-6C PBHL - hit/miss target - Shape	0.00	0.00	8,068.00	-2,831.00	-7,796.61	1,246,954.67	3,130,201.21	40° 0' 37.224 N	105° 2' 6.641 W	
- plan misses target center by 0.28usft at 16297.21usft MD (8068.02 TVD, -2830.72 N, -7796.61 E)										
- Point										
CT 33W-6C LP - plan hits target center - Point	0.00	0.00	8,068.00	-2,818.37	-524.37	1,247,007.70	3,137,473.28	40° 0' 37.361 N	105° 0' 33.178 W	

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-6C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 25' @ 5269.00usft
Project:	WELD COUNTY	MD Reference:	KB 25' @ 5269.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-6C	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
4,805.70	4,440.00	PARKMAN				
5,334.24	4,910.00	SUSSEX				
8,240.67	7,610.00	SHARON SPRINGS				
8,281.84	7,650.00	NIOBRARA				
8,442.97	7,797.00	NIO B				
8,873.11	8,048.00	FORT HAYS				
9,024.95	8,068.00	CODELL				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
600.00	600.00	0.00	0.00	Start Build 2.00	
1,961.10	1,910.47	-317.25	5.48	Start 4772.69 hold at 1961.10 MD	
6,733.79	6,154.53	-2,500.15	43.15	Start Drop -2.00	
8,094.89	7,465.00	-2,817.40	48.63	Start 30.00 hold at 8094.88 MD	
8,124.89	7,495.00	-2,817.40	48.63	Start DLS 10.00 TFO 269.90	
9,024.95	8,068.00	-2,818.37	-524.37	Start 7272.26 hold at 9024.95 MD	
16,297.21	8,068.02	-2,830.72	-7,796.61	TD at 16297.21	