

EXTRACTION OIL & GAS

WELD COUNTY

Sec 28-T1N-R68W

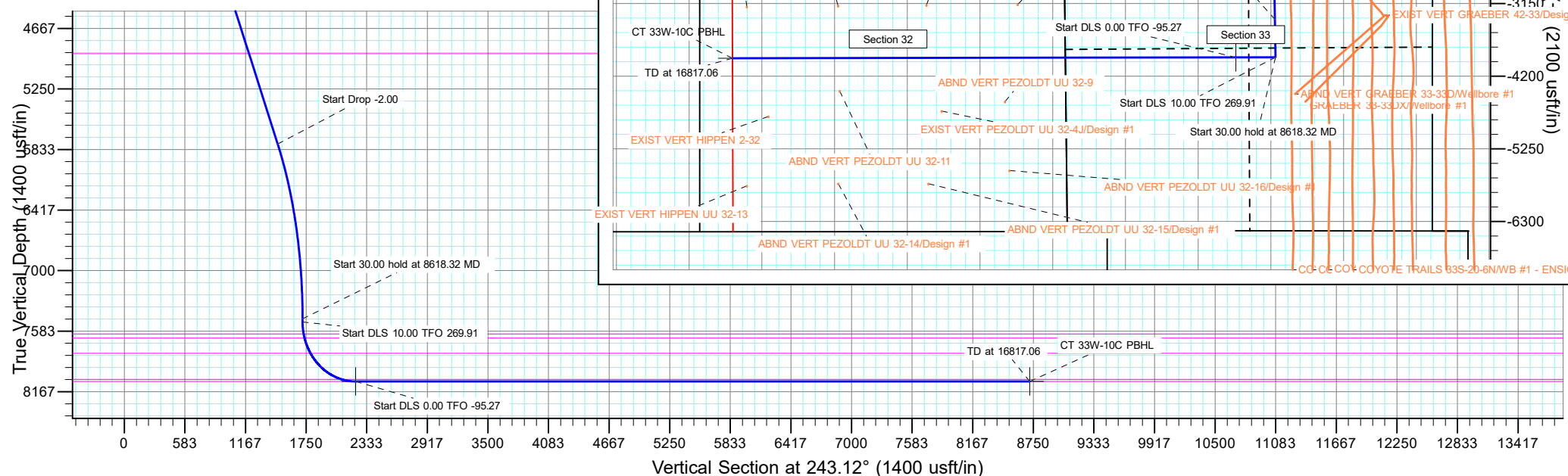
COYOTE TRAILS 33W-15-10C

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

21 March, 2019



Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-10C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 28' @ 5302.00usft
Project:	WELD COUNTY	MD Reference:	KB 28' @ 5302.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-10C	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:	40.014871°N
From:	Lat/Long	Easting:	3,140,299.83 usft	Longitude:	104.999092°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.32 °

Well	COYOTE TRAILS 33W-15-10C					
Well Position	+N/-S	1,131.52 usft	Northing:	1,249,778.56 usft	Latitude:	40.017977°N
	+E/-W	-2,329.70 usft	Easting:	3,137,963.77 usft	Longitude:	105.007410°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,274.00 usft

Wellbore	ORIGINAL WELLBORE				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	6/29/2017	8.30	66.51	52,159.95958881

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	243.12

Plan Survey Tool Program	Date	3/21/2019		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	16,817.06	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	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.87	36.02	179.02	1,884.58	-547.56	9.36	2.00	2.00	0.00	179.02	
6,817.45	36.02	179.02	5,780.42	-3,379.44	57.74	0.00	0.00	0.00	0.00	
8,618.32	0.00	0.00	7,465.00	-3,927.00	67.10	2.00	-2.00	0.00	180.00	
8,648.32	0.00	0.00	7,495.00	-3,927.00	67.10	0.00	0.00	0.00	0.00	
9,548.39	90.00	269.91	8,068.00	-3,927.94	-505.90	10.00	10.00	-10.01	269.91	CT 33W-10C LP
16,817.06	90.00	269.90	8,068.00	-3,940.57	-7,774.57	0.00	0.00	0.00	-95.27	CT 33W-10C PBHL

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Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-10C	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
Start Build 2.00									
300.00	2.00	179.02	299.98	-1.74	0.03	0.76	2.00	2.00	0.00
400.00	4.00	179.02	399.84	-6.98	0.12	3.05	2.00	2.00	0.00
500.00	6.00	179.02	499.45	-15.69	0.27	6.85	2.00	2.00	0.00
600.00	8.00	179.02	598.70	-27.88	0.48	12.18	2.00	2.00	0.00
700.00	10.00	179.02	697.47	-43.52	0.74	19.01	2.00	2.00	0.00
800.00	12.00	179.02	795.62	-62.59	1.07	27.34	2.00	2.00	0.00
900.00	14.00	179.02	893.06	-85.08	1.45	37.17	2.00	2.00	0.00
1,000.00	16.00	179.02	989.64	-110.96	1.90	48.47	2.00	2.00	0.00
1,100.00	18.00	179.02	1,085.27	-140.19	2.40	61.24	2.00	2.00	0.00
1,200.00	20.00	179.02	1,179.82	-172.74	2.95	75.46	2.00	2.00	0.00
1,300.00	22.00	179.02	1,273.17	-208.57	3.56	91.12	2.00	2.00	0.00
1,400.00	24.00	179.02	1,365.21	-247.64	4.23	108.18	2.00	2.00	0.00
1,500.00	26.00	179.02	1,455.84	-289.89	4.95	126.64	2.00	2.00	0.00
1,600.00	28.00	179.02	1,544.94	-335.28	5.73	146.47	2.00	2.00	0.00
1,700.00	30.00	179.02	1,632.39	-383.75	6.56	167.65	2.00	2.00	0.00
1,800.00	32.00	179.02	1,718.11	-435.25	7.44	190.14	2.00	2.00	0.00
1,900.00	34.00	179.02	1,801.97	-489.70	8.37	213.93	2.00	2.00	0.00
2,000.87	36.02	179.02	1,884.58	-547.56	9.36	239.20	2.00	2.00	0.00
Start 4816.58 hold at 2000.87 MD									
2,100.00	36.02	179.02	1,964.76	-605.84	10.35	264.67	0.00	0.00	0.00
2,200.00	36.02	179.02	2,045.65	-664.64	11.36	290.35	0.00	0.00	0.00
2,300.00	36.02	179.02	2,126.53	-723.43	12.36	316.04	0.00	0.00	0.00
2,400.00	36.02	179.02	2,207.42	-782.23	13.37	341.72	0.00	0.00	0.00
2,500.00	36.02	179.02	2,288.30	-841.02	14.37	367.41	0.00	0.00	0.00
2,600.00	36.02	179.02	2,369.18	-899.81	15.37	393.09	0.00	0.00	0.00
2,700.00	36.02	179.02	2,450.07	-958.61	16.38	418.78	0.00	0.00	0.00
2,800.00	36.02	179.02	2,530.95	-1,017.40	17.38	444.46	0.00	0.00	0.00
2,900.00	36.02	179.02	2,611.83	-1,076.20	18.39	470.14	0.00	0.00	0.00
3,000.00	36.02	179.02	2,692.72	-1,134.99	19.39	495.83	0.00	0.00	0.00
3,100.00	36.02	179.02	2,773.60	-1,193.79	20.40	521.51	0.00	0.00	0.00
3,200.00	36.02	179.02	2,854.49	-1,252.58	21.40	547.20	0.00	0.00	0.00
3,300.00	36.02	179.02	2,935.37	-1,311.38	22.41	572.88	0.00	0.00	0.00
3,400.00	36.02	179.02	3,016.25	-1,370.17	23.41	598.57	0.00	0.00	0.00
3,500.00	36.02	179.02	3,097.14	-1,428.96	24.42	624.25	0.00	0.00	0.00
3,600.00	36.02	179.02	3,178.02	-1,487.76	25.42	649.94	0.00	0.00	0.00
3,700.00	36.02	179.02	3,258.91	-1,546.55	26.43	675.62	0.00	0.00	0.00
3,800.00	36.02	179.02	3,339.79	-1,605.35	27.43	701.31	0.00	0.00	0.00
3,900.00	36.02	179.02	3,420.67	-1,664.14	28.43	726.99	0.00	0.00	0.00
4,000.00	36.02	179.02	3,501.56	-1,722.94	29.44	752.68	0.00	0.00	0.00
4,100.00	36.02	179.02	3,582.44	-1,781.73	30.44	778.36	0.00	0.00	0.00
4,200.00	36.02	179.02	3,663.32	-1,840.53	31.45	804.05	0.00	0.00	0.00
4,300.00	36.02	179.02	3,744.21	-1,899.32	32.45	829.73	0.00	0.00	0.00
4,400.00	36.02	179.02	3,825.09	-1,958.12	33.46	855.42	0.00	0.00	0.00
4,500.00	36.02	179.02	3,905.98	-2,016.91	34.46	881.10	0.00	0.00	0.00
4,600.00	36.02	179.02	3,986.86	-2,075.70	35.47	906.79	0.00	0.00	0.00
4,700.00	36.02	179.02	4,067.74	-2,134.50	36.47	932.47	0.00	0.00	0.00
4,800.00	36.02	179.02	4,148.63	-2,193.29	37.48	958.16	0.00	0.00	0.00
4,900.00	36.02	179.02	4,229.51	-2,252.09	38.48	983.84	0.00	0.00	0.00
5,000.00	36.02	179.02	4,310.40	-2,310.88	39.49	1,009.53	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)	
5,100.00	36.02	179.02	4,391.28	-2,369.68	40.49	1,035.21	0.00	0.00	0.00	
5,160.24	36.02	179.02	4,440.00	-2,405.09	41.10	1,050.68	0.00	0.00	0.00	
PARKMAN										
5,200.00	36.02	179.02	4,472.16	-2,428.47	41.49	1,060.90	0.00	0.00	0.00	
5,300.00	36.02	179.02	4,553.05	-2,487.27	42.50	1,086.58	0.00	0.00	0.00	
5,400.00	36.02	179.02	4,633.93	-2,546.06	43.50	1,112.27	0.00	0.00	0.00	
5,500.00	36.02	179.02	4,714.81	-2,604.86	44.51	1,137.95	0.00	0.00	0.00	
5,600.00	36.02	179.02	4,795.70	-2,663.65	45.51	1,163.63	0.00	0.00	0.00	
5,700.00	36.02	179.02	4,876.58	-2,722.44	46.52	1,189.32	0.00	0.00	0.00	
5,741.32	36.02	179.02	4,910.00	-2,746.74	46.93	1,199.93	0.00	0.00	0.00	
SUSSEX										
5,800.00	36.02	179.02	4,957.47	-2,781.24	47.52	1,215.00	0.00	0.00	0.00	
5,900.00	36.02	179.02	5,038.35	-2,840.03	48.53	1,240.69	0.00	0.00	0.00	
6,000.00	36.02	179.02	5,119.23	-2,898.83	49.53	1,266.37	0.00	0.00	0.00	
6,100.00	36.02	179.02	5,200.12	-2,957.62	50.54	1,292.06	0.00	0.00	0.00	
6,200.00	36.02	179.02	5,281.00	-3,016.42	51.54	1,317.74	0.00	0.00	0.00	
6,300.00	36.02	179.02	5,361.89	-3,075.21	52.55	1,343.43	0.00	0.00	0.00	
6,400.00	36.02	179.02	5,442.77	-3,134.01	53.55	1,369.11	0.00	0.00	0.00	
6,500.00	36.02	179.02	5,523.65	-3,192.80	54.55	1,394.80	0.00	0.00	0.00	
6,600.00	36.02	179.02	5,604.54	-3,251.59	55.56	1,420.48	0.00	0.00	0.00	
6,700.00	36.02	179.02	5,685.42	-3,310.39	56.56	1,446.17	0.00	0.00	0.00	
6,800.00	36.02	179.02	5,766.30	-3,369.18	57.57	1,471.85	0.00	0.00	0.00	
6,817.45	36.02	179.02	5,780.42	-3,379.44	57.74	1,476.33	0.00	0.00	0.00	
Start Drop -2.00										
6,900.00	34.37	179.02	5,847.88	-3,427.01	58.56	1,497.11	2.00	-2.00	0.00	
7,000.00	32.37	179.02	5,931.39	-3,482.00	59.50	1,521.14	2.00	-2.00	0.00	
7,100.00	30.37	179.02	6,016.77	-3,534.04	60.39	1,543.87	2.00	-2.00	0.00	
7,200.00	28.37	179.02	6,103.92	-3,583.07	61.22	1,565.29	2.00	-2.00	0.00	
7,300.00	26.37	179.02	6,192.72	-3,629.03	62.01	1,585.37	2.00	-2.00	0.00	
7,400.00	24.37	179.02	6,283.08	-3,671.86	62.74	1,604.08	2.00	-2.00	0.00	
7,500.00	22.37	179.02	6,374.87	-3,711.51	63.42	1,621.40	2.00	-2.00	0.00	
7,600.00	20.37	179.02	6,467.99	-3,747.94	64.04	1,637.31	2.00	-2.00	0.00	
7,700.00	18.37	179.02	6,562.33	-3,781.09	64.61	1,651.80	2.00	-2.00	0.00	
7,800.00	16.37	179.02	6,657.77	-3,810.93	65.12	1,664.83	2.00	-2.00	0.00	
7,900.00	14.37	179.02	6,754.19	-3,837.43	65.57	1,676.41	2.00	-2.00	0.00	
8,000.00	12.37	179.02	6,851.47	-3,860.54	65.96	1,686.51	2.00	-2.00	0.00	
8,100.00	10.37	179.02	6,949.51	-3,880.25	66.30	1,695.11	2.00	-2.00	0.00	
8,200.00	8.37	179.02	7,048.17	-3,896.52	66.58	1,702.22	2.00	-2.00	0.00	
8,300.00	6.37	179.02	7,147.34	-3,909.34	66.80	1,707.82	2.00	-2.00	0.00	
8,400.00	4.37	179.02	7,246.89	-3,918.69	66.96	1,711.91	2.00	-2.00	0.00	
8,500.00	2.37	179.02	7,346.72	-3,924.56	67.06	1,714.47	2.00	-2.00	0.00	
8,600.00	0.37	179.02	7,446.68	-3,926.94	67.10	1,715.51	2.00	-2.00	0.00	
8,618.32	0.00	0.00	7,465.00	-3,927.00	67.10	1,715.54	2.00	-2.00	0.00	
Start 30.00 hold at 8618.32 MD										
8,648.32	0.00	0.00	7,495.00	-3,927.00	67.10	1,715.54	0.00	0.00	0.00	
Start DLS 10.00 TFO 269.91										
8,650.00	0.17	269.91	7,496.68	-3,927.00	67.10	1,715.54	10.00	10.00	0.00	
8,700.00	5.17	269.91	7,546.61	-3,927.00	64.77	1,717.62	10.00	10.00	0.00	
8,750.00	10.17	269.91	7,596.15	-3,927.01	58.10	1,723.57	10.00	10.00	0.00	
8,764.10	11.58	269.91	7,610.00	-3,927.02	55.44	1,725.95	10.00	10.00	0.00	
SHARON SPRINGS										
8,800.00	15.17	269.91	7,644.92	-3,927.03	47.14	1,733.36	10.00	10.00	0.00	
8,805.27	15.69	269.91	7,650.00	-3,927.04	45.74	1,734.61	10.00	10.00	0.00	

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Project:	WELD COUNTY	MD Reference:	KB 28' @ 5302.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-10C	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)
NIOBARA									
8,850.00	20.17	269.91	7,692.55	-3,927.06	31.97	1,746.90	10.00	10.00	0.00
8,900.00	25.17	269.91	7,738.67	-3,927.09	12.71	1,764.09	10.00	10.00	0.00
8,950.00	30.17	269.91	7,782.94	-3,927.13	-10.50	1,784.81	10.00	10.00	0.00
8,966.40	31.81	269.91	7,797.00	-3,927.14	-18.95	1,792.35	10.00	10.00	0.00
NIO B									
9,000.00	35.17	269.91	7,825.02	-3,927.17	-37.48	1,808.90	10.00	10.00	0.00
9,050.00	40.17	269.91	7,864.58	-3,927.22	-68.02	1,836.16	10.00	10.00	0.00
9,100.00	45.17	269.91	7,901.34	-3,927.28	-101.90	1,866.40	10.00	10.00	0.00
9,150.00	50.16	269.91	7,935.00	-3,927.34	-138.85	1,899.39	10.00	10.00	0.00
9,200.00	55.16	269.91	7,965.31	-3,927.40	-178.59	1,934.87	10.00	10.00	0.00
9,250.00	60.16	269.91	7,992.05	-3,927.47	-220.82	1,972.57	10.00	10.00	0.00
9,300.00	65.16	269.91	8,015.00	-3,927.55	-265.22	2,012.21	10.00	10.00	0.00
9,350.00	70.16	269.91	8,034.00	-3,927.62	-311.46	2,053.48	10.00	10.00	0.00
9,396.55	74.82	269.91	8,048.00	-3,927.70	-355.83	2,093.10	10.00	10.00	0.00
FORT HAYS									
9,400.00	75.16	269.91	8,048.89	-3,927.70	-359.17	2,096.07	10.00	10.00	0.00
9,450.00	80.16	269.91	8,059.57	-3,927.78	-408.00	2,139.67	10.00	10.00	0.00
9,500.00	85.16	269.91	8,065.96	-3,927.86	-457.57	2,183.92	10.00	10.00	0.00
9,548.38	90.00	269.91	8,068.00	-3,927.94	-505.89	2,227.06	10.00	10.00	0.00
CODELL									
9,548.39	90.00	269.91	8,068.00	-3,927.94	-505.90	2,227.07	10.00	10.00	0.00
Start DLS 0.00 TFO -95.27									
9,600.00	90.00	269.91	8,068.00	-3,928.03	-557.52	2,273.14	0.00	0.00	0.00
9,700.00	90.00	269.91	8,068.00	-3,928.19	-657.52	2,362.41	0.00	0.00	0.00
9,800.00	90.00	269.91	8,068.00	-3,928.36	-757.52	2,451.68	0.00	0.00	0.00
9,900.00	90.00	269.91	8,068.00	-3,928.52	-857.52	2,540.96	0.00	0.00	0.00
10,000.00	90.00	269.90	8,068.00	-3,928.69	-957.52	2,630.23	0.00	0.00	0.00
10,100.00	90.00	269.90	8,068.00	-3,928.86	-1,057.52	2,719.50	0.00	0.00	0.00
10,200.00	90.00	269.90	8,068.00	-3,929.02	-1,157.52	2,808.77	0.00	0.00	0.00
10,300.00	90.00	269.90	8,067.99	-3,929.19	-1,257.52	2,898.04	0.00	0.00	0.00
10,400.00	90.00	269.90	8,067.99	-3,929.36	-1,357.52	2,987.32	0.00	0.00	0.00
10,500.00	90.00	269.90	8,067.99	-3,929.52	-1,457.52	3,076.59	0.00	0.00	0.00
10,600.00	90.00	269.90	8,067.99	-3,929.69	-1,557.52	3,165.86	0.00	0.00	0.00
10,700.00	90.00	269.90	8,067.99	-3,929.86	-1,657.51	3,255.13	0.00	0.00	0.00
10,800.00	90.00	269.90	8,067.99	-3,930.03	-1,757.51	3,344.40	0.00	0.00	0.00
10,900.00	90.00	269.90	8,067.99	-3,930.19	-1,857.51	3,433.68	0.00	0.00	0.00
11,000.00	90.00	269.90	8,067.99	-3,930.36	-1,957.51	3,522.95	0.00	0.00	0.00
11,100.00	90.00	269.90	8,067.99	-3,930.53	-2,057.51	3,612.22	0.00	0.00	0.00
11,200.00	90.00	269.90	8,067.99	-3,930.70	-2,157.51	3,701.50	0.00	0.00	0.00
11,300.00	90.00	269.90	8,067.99	-3,930.87	-2,257.51	3,790.77	0.00	0.00	0.00
11,400.00	90.00	269.90	8,067.99	-3,931.04	-2,357.51	3,880.04	0.00	0.00	0.00
11,500.00	90.00	269.90	8,067.99	-3,931.21	-2,457.51	3,969.32	0.00	0.00	0.00
11,600.00	90.00	269.90	8,067.99	-3,931.38	-2,557.51	4,058.59	0.00	0.00	0.00
11,700.00	90.00	269.90	8,067.99	-3,931.55	-2,657.51	4,147.86	0.00	0.00	0.00
11,800.00	90.00	269.90	8,067.99	-3,931.72	-2,757.51	4,237.14	0.00	0.00	0.00
11,900.00	90.00	269.90	8,067.99	-3,931.89	-2,857.51	4,326.41	0.00	0.00	0.00
12,000.00	90.00	269.90	8,067.99	-3,932.06	-2,957.51	4,415.68	0.00	0.00	0.00
12,100.00	90.00	269.90	8,067.99	-3,932.23	-3,057.51	4,504.96	0.00	0.00	0.00
12,200.00	90.00	269.90	8,067.99	-3,932.40	-3,157.51	4,594.23	0.00	0.00	0.00
12,300.00	90.00	269.90	8,067.99	-3,932.57	-3,257.51	4,683.51	0.00	0.00	0.00
12,400.00	90.00	269.90	8,067.99	-3,932.74	-3,357.51	4,772.78	0.00	0.00	0.00
12,500.00	90.00	269.90	8,067.99	-3,932.91	-3,457.51	4,862.05	0.00	0.00	0.00

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-10C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 28' @ 5302.00usft
Project:	WELD COUNTY	MD Reference:	KB 28' @ 5302.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-10C	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)	
12,600.00	90.00	269.90	8,067.99	-3,933.09	-3,557.51	4,951.33	0.00	0.00	0.00	
12,700.00	90.00	269.90	8,067.99	-3,933.26	-3,657.51	5,040.60	0.00	0.00	0.00	
12,800.00	90.00	269.90	8,067.99	-3,933.43	-3,757.51	5,129.88	0.00	0.00	0.00	
12,900.00	90.00	269.90	8,067.99	-3,933.60	-3,857.51	5,219.15	0.00	0.00	0.00	
13,000.00	90.00	269.90	8,067.99	-3,933.78	-3,957.51	5,308.43	0.00	0.00	0.00	
13,100.00	90.00	269.90	8,067.98	-3,933.95	-4,057.51	5,397.70	0.00	0.00	0.00	
13,200.00	90.00	269.90	8,067.98	-3,934.12	-4,157.51	5,486.98	0.00	0.00	0.00	
13,300.00	90.00	269.90	8,067.99	-3,934.30	-4,257.51	5,576.25	0.00	0.00	0.00	
13,400.00	90.00	269.90	8,067.99	-3,934.47	-4,357.51	5,665.53	0.00	0.00	0.00	
13,500.00	90.00	269.90	8,067.99	-3,934.65	-4,457.51	5,754.80	0.00	0.00	0.00	
13,600.00	90.00	269.90	8,067.99	-3,934.82	-4,557.51	5,844.08	0.00	0.00	0.00	
13,700.00	90.00	269.90	8,067.99	-3,935.00	-4,657.51	5,933.36	0.00	0.00	0.00	
13,800.00	90.00	269.90	8,067.99	-3,935.17	-4,757.51	6,022.63	0.00	0.00	0.00	
13,900.00	90.00	269.90	8,067.99	-3,935.35	-4,857.51	6,111.91	0.00	0.00	0.00	
14,000.00	90.00	269.90	8,067.99	-3,935.52	-4,957.51	6,201.18	0.00	0.00	0.00	
14,100.00	90.00	269.90	8,067.99	-3,935.70	-5,057.51	6,290.46	0.00	0.00	0.00	
14,200.00	90.00	269.90	8,067.99	-3,935.88	-5,157.51	6,379.74	0.00	0.00	0.00	
14,300.00	90.00	269.90	8,067.99	-3,936.05	-5,257.51	6,469.01	0.00	0.00	0.00	
14,400.00	90.00	269.90	8,067.99	-3,936.23	-5,357.51	6,558.29	0.00	0.00	0.00	
14,500.00	90.00	269.90	8,067.99	-3,936.41	-5,457.51	6,647.57	0.00	0.00	0.00	
14,600.00	90.00	269.90	8,067.99	-3,936.58	-5,557.51	6,736.84	0.00	0.00	0.00	
14,700.00	90.00	269.90	8,067.99	-3,936.76	-5,657.51	6,826.12	0.00	0.00	0.00	
14,800.00	90.00	269.90	8,067.99	-3,936.94	-5,757.51	6,915.40	0.00	0.00	0.00	
14,900.00	90.00	269.90	8,067.99	-3,937.12	-5,857.51	7,004.67	0.00	0.00	0.00	
15,000.00	90.00	269.90	8,067.99	-3,937.29	-5,957.51	7,093.95	0.00	0.00	0.00	
15,100.00	90.00	269.90	8,067.99	-3,937.47	-6,057.51	7,183.23	0.00	0.00	0.00	
15,200.00	90.00	269.90	8,067.99	-3,937.65	-6,157.51	7,272.51	0.00	0.00	0.00	
15,300.00	90.00	269.90	8,067.99	-3,937.83	-6,257.51	7,361.78	0.00	0.00	0.00	
15,400.00	90.00	269.90	8,067.99	-3,938.01	-6,357.51	7,451.06	0.00	0.00	0.00	
15,500.00	90.00	269.90	8,067.99	-3,938.19	-6,457.51	7,540.34	0.00	0.00	0.00	
15,600.00	90.00	269.90	8,067.99	-3,938.37	-6,557.51	7,629.62	0.00	0.00	0.00	
15,700.00	90.00	269.90	8,067.99	-3,938.55	-6,657.51	7,718.90	0.00	0.00	0.00	
15,800.00	90.00	269.90	8,067.99	-3,938.73	-6,757.51	7,808.17	0.00	0.00	0.00	
15,900.00	90.00	269.90	8,067.99	-3,938.91	-6,857.51	7,897.45	0.00	0.00	0.00	
16,000.00	90.00	269.90	8,067.99	-3,939.09	-6,957.51	7,986.73	0.00	0.00	0.00	
16,100.00	90.00	269.90	8,067.99	-3,939.27	-7,057.51	8,076.01	0.00	0.00	0.00	
16,200.00	90.00	269.90	8,068.00	-3,939.45	-7,157.51	8,165.29	0.00	0.00	0.00	
16,300.00	90.00	269.90	8,068.00	-3,939.63	-7,257.51	8,254.57	0.00	0.00	0.00	
16,400.00	90.00	269.90	8,068.00	-3,939.81	-7,357.51	8,343.84	0.00	0.00	0.00	
16,500.00	90.00	269.90	8,068.00	-3,940.00	-7,457.51	8,433.12	0.00	0.00	0.00	
16,600.00	90.00	269.90	8,068.00	-3,940.18	-7,557.51	8,522.40	0.00	0.00	0.00	
16,700.00	90.00	269.90	8,068.00	-3,940.36	-7,657.51	8,611.68	0.00	0.00	0.00	
16,800.00	90.00	269.90	8,068.00	-3,940.54	-7,757.51	8,700.96	0.00	0.00	0.00	
16,817.06	90.00	269.90	8,068.00	-3,940.57	-7,774.57	8,716.19	0.00	0.00	0.00	
TD at 16817.06										

Planning Report

Database:	EDT_32Bit_ODBC	Local Co-ordinate Reference:	Well COYOTE TRAILS 33W-15-10C
Company:	EXTRACTION OIL & GAS	TVD Reference:	KB 28' @ 5302.00usft
Project:	WELD COUNTY	MD Reference:	KB 28' @ 5302.00usft
Site:	Sec 28-T1N-R68W	North Reference:	True
Well:	COYOTE TRAILS 33W-15-10C	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
CT 33W-10C LP	0.00	0.00	8,068.00	-3,927.94	-505.90	1,245,847.87	3,137,479.69	40.007194°N	105.009216°W
- plan hits target center									
- Point									
CT 33W-10C PBHL	0.00	0.00	8,068.00	-3,940.57	-7,774.57	1,245,794.86	3,130,211.21	40.007156°N	105.035164°W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
5,160.24	4,440.00	PARKMAN				
5,741.32	4,910.00	SUSSEX				
8,764.10	7,610.00	SHARON SPRINGS				
8,805.27	7,650.00	NIOBRARA				
8,966.40	7,797.00	NIO B				
9,396.55	8,048.00	FORT HAYS				
9,548.39	8,068.00	CODELL				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
200.00	200.00	0.00	0.00	Start Build 2.00
2,000.87	1,884.58	-547.56	9.36	Start 4816.58 hold at 2000.87 MD
6,817.45	5,780.42	-3,379.44	57.74	Start Drop -2.00
8,618.32	7,465.00	-3,927.00	67.10	Start 30.00 hold at 8618.32 MD
8,648.32	7,495.00	-3,927.00	67.10	Start DLS 10.00 TFO 269.91
9,548.39	8,068.00	-3,927.94	-505.90	Start DLS 0.00 TFO -95.27
16,817.06	8,068.00	-3,940.57	-7,774.57	TD at 16817.06