

# **EXTRACTION OIL & GAS**

**WELD COUNTY**

**Sec 28-T1N-R68W**

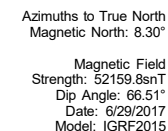
**COYOTE TRAILS 33W-15-6C**

**ORIGINAL WELLBORE**

**Plan: PROPOSAL 1**

## **Standard Planning Report**

**11 February, 2019**



Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
CT 33W-6C LP	8100.00	-2848.61	-461.34	1247007.70	3137473.28	40.010378°N	105.009216°W	Point
- plan hits target center								
CT 33W-6C PBHL	8100.00	-2886.126	-7733.59	1246954.67	3130201.21	40.010340°N	105.035178°W	Point
- plan hits target center								

System Datum: Mean Sea Level

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	PROPOSAL 1		

<b>Project</b>	WELD COUNTY		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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-15-6C					
Well Position	+N/-S	1,212.05 usft	Northing:	1,249,858.83 usft	Latitude:	40.018198°N
	+E/-W	-2,374.23 usft	Easting:	3,137,918.79 usft	Longitude:	105.007569°W
Position Uncertainty		0.00 usft	Wellhead Elevation:		Ground Level:	5,273.00 usft

<b>Wellbore</b>	ORIGINAL WELLBORE				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	6/29/2017	8.30	66.51	52,159.80134428

<b>Design</b>	PROPOSAL 1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	249.81

<b>Plan Survey Tool Program</b>	<b>Date</b>	2/11/2019		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.00	16,351.77	PROPOSAL 1 (ORIGINAL WELL	MWD OWSG
			OWSG MWD - Standard	

<b>Plan Sections</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	<b>TFO (°)</b>	<b>Target</b>
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,097.48	27.95	177.75	2,042.71	-333.89	13.09	2.00	2.00	0.00	177.75	
6,751.96	27.95	177.75	6,154.29	-2,513.76	98.57	0.00	0.00	0.00	0.00	
8,149.44	0.00	0.00	7,497.00	-2,847.65	111.66	2.00	-2.00	0.00	180.00	
8,179.44	0.00	0.00	7,527.00	-2,847.65	111.66	0.00	0.00	0.00	0.00	
9,079.51	90.00	269.90	8,100.00	-2,848.61	-461.34	10.00	10.00	-10.01	269.90	CT 33W-6C LP
16,351.77	90.00	269.90	8,100.00	-2,861.26	-7,733.59	0.00	0.00	0.00	-96.12	CT 33W-6C PBHL

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
800.00	2.00	177.75	799.98	-1.74	0.07	0.54	2.00	2.00	0.00
900.00	4.00	177.75	899.84	-6.97	0.27	2.15	2.00	2.00	0.00
1,000.00	6.00	177.75	999.45	-15.68	0.61	4.84	2.00	2.00	0.00
1,100.00	8.00	177.75	1,098.70	-27.86	1.09	8.59	2.00	2.00	0.00
1,200.00	10.00	177.75	1,197.47	-43.49	1.71	13.41	2.00	2.00	0.00
1,300.00	12.00	177.75	1,295.62	-62.55	2.45	19.29	2.00	2.00	0.00
1,400.00	14.00	177.75	1,393.06	-85.03	3.33	26.22	2.00	2.00	0.00
1,500.00	16.00	177.75	1,489.64	-110.89	4.35	34.20	2.00	2.00	0.00
1,600.00	18.00	177.75	1,585.27	-140.11	5.49	43.21	2.00	2.00	0.00
1,700.00	20.00	177.75	1,679.82	-172.64	6.77	53.24	2.00	2.00	0.00
1,800.00	22.00	177.75	1,773.17	-208.44	8.17	64.28	2.00	2.00	0.00
1,900.00	24.00	177.75	1,865.21	-247.48	9.70	76.32	2.00	2.00	0.00
2,000.00	26.00	177.75	1,955.84	-289.71	11.36	89.34	2.00	2.00	0.00
2,097.48	27.95	177.75	2,042.71	-333.89	13.09	102.97	2.00	2.00	0.00
Start 4654.47 hold at 2097.48 MD									
2,100.00	27.95	177.75	2,044.94	-335.07	13.14	103.33	0.00	0.00	0.00
2,200.00	27.95	177.75	2,133.27	-381.91	14.98	117.78	0.00	0.00	0.00
2,300.00	27.95	177.75	2,221.61	-428.74	16.81	132.22	0.00	0.00	0.00
2,400.00	27.95	177.75	2,309.95	-475.57	18.65	146.66	0.00	0.00	0.00
2,500.00	27.95	177.75	2,398.28	-522.41	20.48	161.10	0.00	0.00	0.00
2,600.00	27.95	177.75	2,486.62	-569.24	22.32	175.55	0.00	0.00	0.00
2,700.00	27.95	177.75	2,574.95	-616.07	24.16	189.99	0.00	0.00	0.00
2,800.00	27.95	177.75	2,663.29	-662.91	25.99	204.43	0.00	0.00	0.00
2,900.00	27.95	177.75	2,751.62	-709.74	27.83	218.88	0.00	0.00	0.00
3,000.00	27.95	177.75	2,839.96	-756.58	29.67	233.32	0.00	0.00	0.00
3,100.00	27.95	177.75	2,928.30	-803.41	31.50	247.76	0.00	0.00	0.00
3,200.00	27.95	177.75	3,016.63	-850.24	33.34	262.21	0.00	0.00	0.00
3,300.00	27.95	177.75	3,104.97	-897.08	35.18	276.65	0.00	0.00	0.00
3,400.00	27.95	177.75	3,193.30	-943.91	37.01	291.09	0.00	0.00	0.00
3,500.00	27.95	177.75	3,281.64	-990.74	38.85	305.54	0.00	0.00	0.00
3,600.00	27.95	177.75	3,369.98	-1,037.58	40.68	319.98	0.00	0.00	0.00
3,700.00	27.95	177.75	3,458.31	-1,084.41	42.52	334.42	0.00	0.00	0.00
3,800.00	27.95	177.75	3,546.65	-1,131.25	44.36	348.86	0.00	0.00	0.00
3,900.00	27.95	177.75	3,634.98	-1,178.08	46.19	363.31	0.00	0.00	0.00
4,000.00	27.95	177.75	3,723.32	-1,224.91	48.03	377.75	0.00	0.00	0.00
4,100.00	27.95	177.75	3,811.66	-1,271.75	49.87	392.19	0.00	0.00	0.00
4,200.00	27.95	177.75	3,899.99	-1,318.58	51.70	406.64	0.00	0.00	0.00
4,300.00	27.95	177.75	3,988.33	-1,365.41	53.54	421.08	0.00	0.00	0.00
4,400.00	27.95	177.75	4,076.66	-1,412.25	55.38	435.52	0.00	0.00	0.00
4,500.00	27.95	177.75	4,165.00	-1,459.08	57.21	449.97	0.00	0.00	0.00
4,600.00	27.95	177.75	4,253.34	-1,505.92	59.05	464.41	0.00	0.00	0.00
4,700.00	27.95	177.75	4,341.67	-1,552.75	60.89	478.85	0.00	0.00	0.00
4,800.00	27.95	177.75	4,430.01	-1,599.58	62.72	493.29	0.00	0.00	0.00
4,811.31	27.95	177.75	4,440.00	-1,604.88	62.93	494.93	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
<b>PARKMAN</b>									
4,900.00	27.95	177.75	4,518.34	-1,646.42	64.56	507.74	0.00	0.00	0.00
5,000.00	27.95	177.75	4,606.68	-1,693.25	66.39	522.18	0.00	0.00	0.00
5,100.00	27.95	177.75	4,695.01	-1,740.08	68.23	536.62	0.00	0.00	0.00
5,200.00	27.95	177.75	4,783.35	-1,786.92	70.07	551.07	0.00	0.00	0.00
5,300.00	27.95	177.75	4,871.69	-1,833.75	71.90	565.51	0.00	0.00	0.00
5,343.37	27.95	177.75	4,910.00	-1,854.06	72.70	571.77	0.00	0.00	0.00
<b>SUSSEX</b>									
5,400.00	27.95	177.75	4,960.02	-1,880.58	73.74	579.95	0.00	0.00	0.00
5,500.00	27.95	177.75	5,048.36	-1,927.42	75.58	594.40	0.00	0.00	0.00
5,600.00	27.95	177.75	5,136.69	-1,974.25	77.41	608.84	0.00	0.00	0.00
5,700.00	27.95	177.75	5,225.03	-2,021.09	79.25	623.28	0.00	0.00	0.00
5,800.00	27.95	177.75	5,313.37	-2,067.92	81.09	637.72	0.00	0.00	0.00
5,900.00	27.95	177.75	5,401.70	-2,114.75	82.92	652.17	0.00	0.00	0.00
6,000.00	27.95	177.75	5,490.04	-2,161.59	84.76	666.61	0.00	0.00	0.00
6,100.00	27.95	177.75	5,578.37	-2,208.42	86.59	681.05	0.00	0.00	0.00
6,200.00	27.95	177.75	5,666.71	-2,255.25	88.43	695.50	0.00	0.00	0.00
6,300.00	27.95	177.75	5,755.05	-2,302.09	90.27	709.94	0.00	0.00	0.00
6,400.00	27.95	177.75	5,843.38	-2,348.92	92.10	724.38	0.00	0.00	0.00
6,500.00	27.95	177.75	5,931.72	-2,395.76	93.94	738.83	0.00	0.00	0.00
6,600.00	27.95	177.75	6,020.05	-2,442.59	95.78	753.27	0.00	0.00	0.00
6,700.00	27.95	177.75	6,108.39	-2,489.42	97.61	767.71	0.00	0.00	0.00
6,751.96	27.95	177.75	6,154.29	-2,513.76	98.57	775.22	0.00	0.00	0.00
<b>Start Drop -2.00</b>									
6,800.00	26.99	177.75	6,196.91	-2,535.90	99.44	782.04	2.00	-2.00	0.00
6,900.00	24.99	177.75	6,286.80	-2,579.68	101.15	795.55	2.00	-2.00	0.00
7,000.00	22.99	177.75	6,378.15	-2,620.31	102.75	808.07	2.00	-2.00	0.00
7,100.00	20.99	177.75	6,470.87	-2,657.72	104.21	819.61	2.00	-2.00	0.00
7,200.00	18.99	177.75	6,564.85	-2,691.87	105.55	830.15	2.00	-2.00	0.00
7,300.00	16.99	177.75	6,659.95	-2,722.73	106.76	839.66	2.00	-2.00	0.00
7,400.00	14.99	177.75	6,756.08	-2,750.25	107.84	848.15	2.00	-2.00	0.00
7,500.00	12.99	177.75	6,853.11	-2,774.41	108.79	855.60	2.00	-2.00	0.00
7,600.00	10.99	177.75	6,950.92	-2,795.16	109.60	862.00	2.00	-2.00	0.00
7,700.00	8.99	177.75	7,049.40	-2,812.49	110.28	867.34	2.00	-2.00	0.00
7,800.00	6.99	177.75	7,148.43	-2,826.38	110.83	871.63	2.00	-2.00	0.00
7,900.00	4.99	177.75	7,247.87	-2,836.81	111.23	874.84	2.00	-2.00	0.00
8,000.00	2.99	177.75	7,347.63	-2,843.76	111.51	876.98	2.00	-2.00	0.00
8,100.00	0.99	177.75	7,447.56	-2,847.22	111.64	878.05	2.00	-2.00	0.00
8,149.44	0.00	0.00	7,497.00	-2,847.65	111.66	878.19	2.00	-2.00	0.00
<b>Start 30.00 hold at 8149.44 MD</b>									
8,179.44	0.00	0.00	7,527.00	-2,847.65	111.66	878.19	0.00	0.00	0.00
<b>Start DLS 10.00 TFO 269.90</b>									
8,200.00	2.06	269.90	7,547.56	-2,847.65	111.29	878.53	10.00	10.00	0.00
8,250.00	7.06	269.90	7,597.38	-2,847.66	107.32	882.26	10.00	10.00	0.00
8,262.73	8.33	269.90	7,610.00	-2,847.66	105.62	883.86	10.00	10.00	0.00
<b>SHARON SPRINGS</b>									
8,300.00	12.06	269.90	7,646.67	-2,847.67	99.02	890.05	10.00	10.00	0.00
8,303.41	12.40	269.90	7,650.00	-2,847.67	98.30	890.73	10.00	10.00	0.00
<b>NIOBRARA</b>									
8,350.00	17.05	269.90	7,695.05	-2,847.69	86.46	901.85	10.00	10.00	0.00
8,400.00	22.05	269.90	7,742.15	-2,847.72	69.73	917.56	10.00	10.00	0.00
8,450.00	27.05	269.90	7,787.62	-2,847.76	48.96	937.07	10.00	10.00	0.00
8,460.59	28.11	269.90	7,797.00	-2,847.76	44.06	941.67	10.00	10.00	0.00

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
<b>NIO B</b>									
8,500.00	32.05	269.90	7,831.10	-2,847.80	24.31	960.22	10.00	10.00	0.00
8,550.00	37.05	269.90	7,872.27	-2,847.84	-4.04	986.84	10.00	10.00	0.00
8,600.00	42.05	269.90	7,910.80	-2,847.90	-35.87	1,016.73	10.00	10.00	0.00
8,650.00	47.05	269.90	7,946.42	-2,847.96	-70.94	1,049.67	10.00	10.00	0.00
8,700.00	52.05	269.90	7,978.85	-2,848.02	-108.98	1,085.39	10.00	10.00	0.00
8,750.00	57.05	269.90	8,007.84	-2,848.09	-149.70	1,123.63	10.00	10.00	0.00
8,800.00	62.05	269.90	8,033.17	-2,848.16	-192.79	1,164.09	10.00	10.00	0.00
8,833.51	65.40	269.90	8,048.00	-2,848.21	-222.83	1,192.31	10.00	10.00	0.00
<b>FORT HAYS</b>									
8,850.00	67.05	269.90	8,054.65	-2,848.24	-237.92	1,206.48	10.00	10.00	0.00
8,887.11	70.76	269.90	8,068.00	-2,848.30	-272.53	1,238.99	10.00	10.00	0.00
<b>CODELL</b>									
8,900.00	72.05	269.90	8,072.11	-2,848.32	-284.75	1,250.46	10.00	10.00	0.00
8,950.00	77.05	269.90	8,085.43	-2,848.40	-332.93	1,295.71	10.00	10.00	0.00
9,000.00	82.05	269.90	8,094.49	-2,848.48	-382.09	1,341.87	10.00	10.00	0.00
9,050.00	87.05	269.90	8,099.24	-2,848.56	-431.85	1,388.60	10.00	10.00	0.00
9,079.51	90.00	269.90	8,100.00	-2,848.61	-461.34	1,416.30	10.00	10.00	0.00
<b>Start DLS 0.00 TFO -96.12</b>									
9,100.00	90.00	269.90	8,100.00	-2,848.65	-481.83	1,435.54	0.00	0.00	0.00
9,200.00	90.00	269.90	8,100.00	-2,848.82	-581.83	1,529.45	0.00	0.00	0.00
9,300.00	90.00	269.90	8,100.00	-2,848.98	-681.83	1,623.36	0.00	0.00	0.00
9,400.00	90.00	269.90	8,100.00	-2,849.15	-781.83	1,717.28	0.00	0.00	0.00
9,500.00	90.00	269.90	8,100.00	-2,849.32	-881.83	1,811.19	0.00	0.00	0.00
9,600.00	90.00	269.90	8,100.00	-2,849.49	-981.83	1,905.10	0.00	0.00	0.00
9,700.00	90.00	269.90	8,100.00	-2,849.66	-1,081.83	1,999.01	0.00	0.00	0.00
9,800.00	90.00	269.90	8,100.00	-2,849.83	-1,181.83	2,092.92	0.00	0.00	0.00
9,900.00	90.00	269.90	8,100.00	-2,850.00	-1,281.83	2,186.83	0.00	0.00	0.00
10,000.00	90.00	269.90	8,100.00	-2,850.17	-1,381.83	2,280.74	0.00	0.00	0.00
10,100.00	90.00	269.90	8,099.99	-2,850.34	-1,481.83	2,374.66	0.00	0.00	0.00
10,200.00	90.00	269.90	8,099.99	-2,850.51	-1,581.83	2,468.57	0.00	0.00	0.00
10,300.00	90.00	269.90	8,099.99	-2,850.68	-1,681.83	2,562.48	0.00	0.00	0.00
10,400.00	90.00	269.90	8,099.99	-2,850.85	-1,781.83	2,656.39	0.00	0.00	0.00
10,500.00	90.00	269.90	8,099.99	-2,851.02	-1,881.83	2,750.30	0.00	0.00	0.00
10,600.00	90.00	269.90	8,099.99	-2,851.19	-1,981.83	2,844.22	0.00	0.00	0.00
10,700.00	90.00	269.90	8,099.99	-2,851.36	-2,081.83	2,938.13	0.00	0.00	0.00
10,800.00	90.00	269.90	8,099.99	-2,851.53	-2,181.83	3,032.04	0.00	0.00	0.00
10,900.00	90.00	269.90	8,099.99	-2,851.70	-2,281.83	3,125.95	0.00	0.00	0.00
11,000.00	90.00	269.90	8,099.99	-2,851.87	-2,381.83	3,219.86	0.00	0.00	0.00
11,100.00	90.00	269.90	8,099.99	-2,852.04	-2,481.83	3,313.78	0.00	0.00	0.00
11,200.00	90.00	269.90	8,099.99	-2,852.21	-2,581.83	3,407.69	0.00	0.00	0.00
11,300.00	90.00	269.90	8,099.99	-2,852.38	-2,681.83	3,501.60	0.00	0.00	0.00
11,400.00	90.00	269.90	8,099.99	-2,852.56	-2,781.83	3,595.51	0.00	0.00	0.00
11,500.00	90.00	269.90	8,099.99	-2,852.73	-2,881.83	3,689.43	0.00	0.00	0.00
11,600.00	90.00	269.90	8,099.99	-2,852.90	-2,981.83	3,783.34	0.00	0.00	0.00
11,700.00	90.00	269.90	8,099.99	-2,853.07	-3,081.83	3,877.25	0.00	0.00	0.00
11,800.00	90.00	269.90	8,099.99	-2,853.24	-3,181.83	3,971.16	0.00	0.00	0.00
11,900.00	90.00	269.90	8,099.99	-2,853.42	-3,281.83	4,065.08	0.00	0.00	0.00
12,000.00	90.00	269.90	8,099.99	-2,853.59	-3,381.83	4,158.99	0.00	0.00	0.00
12,100.00	90.00	269.90	8,099.99	-2,853.76	-3,481.83	4,252.90	0.00	0.00	0.00
12,200.00	90.00	269.90	8,099.99	-2,853.93	-3,581.83	4,346.81	0.00	0.00	0.00
12,300.00	90.00	269.90	8,099.99	-2,854.11	-3,681.83	4,440.73	0.00	0.00	0.00
12,400.00	90.00	269.90	8,099.99	-2,854.28	-3,781.83	4,534.64	0.00	0.00	0.00

# Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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)
12,500.00	90.00	269.90	8,099.99	-2,854.45	-3,881.83	4,628.55	0.00	0.00	0.00
12,600.00	90.00	269.90	8,099.99	-2,854.63	-3,981.83	4,722.47	0.00	0.00	0.00
12,700.00	90.00	269.90	8,099.99	-2,854.80	-4,081.83	4,816.38	0.00	0.00	0.00
12,800.00	90.00	269.90	8,099.99	-2,854.98	-4,181.83	4,910.29	0.00	0.00	0.00
12,900.00	90.00	269.90	8,099.99	-2,855.15	-4,281.83	5,004.21	0.00	0.00	0.00
13,000.00	90.00	269.90	8,099.99	-2,855.32	-4,381.83	5,098.12	0.00	0.00	0.00
13,100.00	90.00	269.90	8,099.99	-2,855.50	-4,481.83	5,192.03	0.00	0.00	0.00
13,200.00	90.00	269.90	8,099.99	-2,855.67	-4,581.83	5,285.94	0.00	0.00	0.00
13,300.00	90.00	269.90	8,099.99	-2,855.85	-4,681.83	5,379.86	0.00	0.00	0.00
13,400.00	90.00	269.90	8,099.99	-2,856.02	-4,781.83	5,473.77	0.00	0.00	0.00
13,500.00	90.00	269.90	8,099.99	-2,856.20	-4,881.83	5,567.69	0.00	0.00	0.00
13,600.00	90.00	269.90	8,099.99	-2,856.37	-4,981.83	5,661.60	0.00	0.00	0.00
13,700.00	90.00	269.90	8,099.99	-2,856.55	-5,081.83	5,755.51	0.00	0.00	0.00
13,800.00	90.00	269.90	8,099.99	-2,856.72	-5,181.83	5,849.43	0.00	0.00	0.00
13,900.00	90.00	269.90	8,099.99	-2,856.90	-5,281.83	5,943.34	0.00	0.00	0.00
14,000.00	90.00	269.90	8,099.99	-2,857.08	-5,381.83	6,037.25	0.00	0.00	0.00
14,100.00	90.00	269.90	8,099.99	-2,857.25	-5,481.83	6,131.17	0.00	0.00	0.00
14,200.00	90.00	269.90	8,099.99	-2,857.43	-5,581.82	6,225.08	0.00	0.00	0.00
14,300.00	90.00	269.90	8,099.99	-2,857.60	-5,681.82	6,319.00	0.00	0.00	0.00
14,400.00	90.00	269.90	8,099.99	-2,857.78	-5,781.82	6,412.91	0.00	0.00	0.00
14,500.00	90.00	269.90	8,099.99	-2,857.96	-5,881.82	6,506.82	0.00	0.00	0.00
14,600.00	90.00	269.90	8,099.99	-2,858.13	-5,981.82	6,600.74	0.00	0.00	0.00
14,700.00	90.00	269.90	8,099.99	-2,858.31	-6,081.82	6,694.65	0.00	0.00	0.00
14,800.00	90.00	269.90	8,099.99	-2,858.49	-6,181.82	6,788.57	0.00	0.00	0.00
14,900.00	90.00	269.90	8,099.99	-2,858.66	-6,281.82	6,882.48	0.00	0.00	0.00
15,000.00	90.00	269.90	8,099.99	-2,858.84	-6,381.82	6,976.40	0.00	0.00	0.00
15,100.00	90.00	269.90	8,099.99	-2,859.02	-6,481.82	7,070.31	0.00	0.00	0.00
15,200.00	90.00	269.90	8,099.99	-2,859.20	-6,581.82	7,164.22	0.00	0.00	0.00
15,300.00	90.00	269.90	8,099.99	-2,859.38	-6,681.82	7,258.14	0.00	0.00	0.00
15,400.00	90.00	269.90	8,100.00	-2,859.55	-6,781.82	7,352.05	0.00	0.00	0.00
15,500.00	90.00	269.90	8,100.00	-2,859.73	-6,881.82	7,445.97	0.00	0.00	0.00
15,600.00	90.00	269.90	8,100.00	-2,859.91	-6,981.82	7,539.88	0.00	0.00	0.00
15,700.00	90.00	269.90	8,100.00	-2,860.09	-7,081.82	7,633.80	0.00	0.00	0.00
15,800.00	90.00	269.90	8,100.00	-2,860.27	-7,181.82	7,727.71	0.00	0.00	0.00
15,900.00	90.00	269.90	8,100.00	-2,860.45	-7,281.82	7,821.63	0.00	0.00	0.00
16,000.00	90.00	269.90	8,100.00	-2,860.62	-7,381.82	7,915.54	0.00	0.00	0.00
16,100.00	90.00	269.90	8,100.00	-2,860.80	-7,481.82	8,009.46	0.00	0.00	0.00
16,200.00	90.00	269.90	8,100.00	-2,860.98	-7,581.82	8,103.37	0.00	0.00	0.00
16,300.00	90.00	269.90	8,100.00	-2,861.16	-7,681.82	8,197.29	0.00	0.00	0.00
16,351.77	90.00	269.90	8,100.00	-2,861.26	-7,733.59	8,245.90	0.00	0.00	0.00
TD at 16351.77									

## Planning Report

<b>Database:</b>	EDT_32Bit_ODBC	<b>Local Co-ordinate Reference:</b>	Well COYOTE TRAILS 33W-15-6C
<b>Company:</b>	EXTRACTION OIL & GAS	<b>TVD Reference:</b>	KB 28' @ 5301.00usft
<b>Project:</b>	WELD COUNTY	<b>MD Reference:</b>	KB 28' @ 5301.00usft
<b>Site:</b>	Sec 28-T1N-R68W	<b>North Reference:</b>	True
<b>Well:</b>	COYOTE TRAILS 33W-15-6C	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	ORIGINAL WELLBORE		
<b>Design:</b>	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-6C PBHL	0.00	0.00	8,100.00	-2,861.26	-7,733.59	1,246,954.67	3,130,201.21	40.010340°N	105.035178°W
- plan hits target center									
- Point									
CT 33W-6C LP	0.00	0.00	8,100.00	-2,848.61	-461.34	1,247,007.70	3,137,473.28	40.010378°N	105.009216°W
- plan hits target center									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
4,811.31	4,440.00	PARKMAN				
5,343.37	4,910.00	SUSSEX				
8,262.73	7,610.00	SHARON SPRINGS				
8,303.41	7,650.00	NIOBRARA				
8,460.59	7,797.00	NIO B				
8,833.51	8,048.00	FORT HAYS				
8,887.11	8,068.00	CODELL				

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment
700.00	700.00	0.00	0.00	Start Build 2.00
2,097.48	2,042.71	-333.89	13.09	Start 4654.47 hold at 2097.48 MD
6,751.96	6,154.29	-2,513.76	98.57	Start Drop -2.00
8,149.44	7,497.00	-2,847.65	111.66	Start 30.00 hold at 8149.44 MD
8,179.44	7,527.00	-2,847.65	111.66	Start DLS 10.00 TFO 269.90
9,079.51	8,100.00	-2,848.61	-461.34	Start DLS 0.00 TFO -96.12
16,351.77	8,100.00	-2,861.26	-7,733.59	TD at 16351.77