

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

Sec 28-T1N-R68W 29' KB TRUE

Coyote Trails 34S-20-11C

Wellbore #1

Survey: Survey #1

Standard Survey Report

23 February, 2018

Survey Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well Coyote Trails 34S-20-11C
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KB=29 @ 5299.0usft
Site:	Sec 28-T1N-R68W 29' KB TRUE	MD Reference:	KB=29 @ 5299.0usft
Well:	Coyote Trails 34S-20-11C	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Project	WELD COUNTY, COLORADO (NAD 83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		Using geodetic scale factor

Site		Sec 28-T1N-R68W 29' KB TRUE			
Site Position:		Northing:	1,249,743.73 usft	Latitude:	40° 1' 4.362 N
From:	Map	Easting:	3,138,161.85 usft	Longitude:	105° 0' 24.133 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.32 °

Well	Coyote Trails 34S-20-11C					
Well Position	+N/-S	0.0 usft	Northing:	1,249,743.73 usft	Latitude:	40° 1' 4.361 N
	+E/-W	0.0 usft	Easting:	3,138,179.85 usft	Longitude:	105° 0' 23.901 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	5,270.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	12/29/2017	8.42	66.38	52,089

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	166.31	

Survey Program	Date	2/23/2018			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
125.0	18,760.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
124.0	0.58	209.84	124.0	-0.5	-0.3	0.5	0.46	0.46	0.00	
1st MWD Survey										
125.0	0.58	209.84	125.0	-0.5	-0.3	0.5	0.46	0.46	0.00	
224.0	0.44	204.06	224.0	-1.3	-0.7	1.1	0.15	-0.14	-5.84	
315.0	0.52	194.20	315.0	-2.0	-1.0	1.8	0.13	0.09	-10.84	
410.0	0.56	180.75	410.0	-2.9	-1.1	2.6	0.14	0.04	-14.16	
505.0	0.66	170.94	505.0	-3.9	-1.0	3.6	0.15	0.11	-10.33	
601.0	1.11	120.57	601.0	-5.0	-0.1	4.8	0.89	0.47	-52.47	
697.0	3.02	97.78	696.9	-5.8	3.2	6.4	2.13	1.99	-23.74	
792.0	5.33	107.65	791.6	-7.4	9.9	9.6	2.54	2.43	10.39	

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Site:	Sec 28-T1N-R68W 29' KB TRUE	MD Reference:	KB=29 @ 5299.0usft
Well:	Coyote Trails 34S-20-11C	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
888.0	7.53	107.26	887.0	-10.7	20.1	15.1	2.29	2.29	-0.41
983.0	8.07	108.45	981.2	-14.6	32.4	21.9	0.59	0.57	1.25
1,078.0	9.45	103.18	1,075.0	-18.5	46.3	29.0	1.68	1.45	-5.55
1,174.0	12.42	104.69	1,169.3	-22.9	64.0	37.4	3.11	3.09	1.57
1,269.0	14.45	103.10	1,261.7	-28.2	85.4	47.6	2.17	2.14	-1.67
1,364.0	15.21	103.32	1,353.5	-33.8	109.1	58.6	0.80	0.80	0.23
1,460.0	15.86	109.38	1,446.0	-41.0	133.7	71.5	1.82	0.68	6.31
1,555.0	17.72	111.87	1,537.0	-50.7	159.4	87.0	2.10	1.96	2.62
1,667.0	18.25	114.95	1,643.5	-64.5	191.1	107.9	0.97	0.47	2.75
1,763.0	20.55	114.15	1,734.0	-77.7	220.1	127.6	2.41	2.40	-0.83
1,858.0	21.82	110.87	1,822.6	-90.8	251.8	147.8	1.83	1.34	-3.45
1,953.0	23.60	109.20	1,910.3	-103.4	286.3	168.2	1.99	1.87	-1.76
2,049.0	25.66	111.01	1,997.5	-117.1	323.8	190.5	2.28	2.15	1.89
2,145.0	25.85	110.69	2,084.0	-132.0	362.8	214.1	0.25	0.20	-0.33
2,240.0	27.21	110.00	2,169.0	-146.7	402.6	237.9	1.47	1.43	-0.73
2,335.0	29.07	109.20	2,252.7	-161.7	444.8	262.4	2.00	1.96	-0.84
2,431.0	29.71	110.22	2,336.4	-177.6	489.2	288.4	0.85	0.67	1.06
2,526.0	28.45	109.31	2,419.4	-193.3	532.6	313.8	1.41	-1.33	-0.96
2,622.0	30.25	108.63	2,503.1	-208.5	577.1	339.2	1.91	1.88	-0.71
2,717.0	28.18	108.14	2,586.0	-223.2	621.1	363.9	2.19	-2.18	-0.52
2,812.0	29.66	109.34	2,669.2	-237.9	664.6	388.5	1.67	1.56	1.26
2,908.0	28.32	109.63	2,753.1	-253.5	708.5	414.0	1.40	-1.40	0.30
3,003.0	29.38	114.52	2,836.3	-270.7	750.9	440.8	2.72	1.12	5.15
3,099.0	27.34	113.66	2,920.8	-289.3	792.5	468.7	2.17	-2.13	-0.90
3,194.0	26.94	115.37	3,005.4	-307.3	832.0	495.5	0.92	-0.42	1.80
3,290.0	28.28	115.22	3,090.4	-326.3	872.2	523.5	1.40	1.40	-0.16
3,385.0	26.67	115.37	3,174.7	-345.0	911.8	551.1	1.70	-1.69	0.16
3,481.0	27.66	111.74	3,260.1	-362.5	952.0	577.6	2.01	1.03	-3.78
3,576.0	28.10	111.11	3,344.1	-378.7	993.3	603.1	0.56	0.46	-0.66
3,672.0	26.52	110.61	3,429.4	-394.4	1,034.5	628.1	1.66	-1.65	-0.52
3,767.0	27.14	116.15	3,514.2	-411.4	1,073.8	653.9	2.71	0.65	5.83
3,863.0	28.31	115.04	3,599.2	-430.7	1,114.1	682.2	1.33	1.22	-1.16
3,958.0	26.18	115.08	3,683.6	-449.2	1,153.5	709.4	2.24	-2.24	0.04
4,054.0	27.50	110.39	3,769.3	-465.9	1,193.4	735.1	2.60	1.38	-4.89
4,149.0	24.77	110.43	3,854.6	-480.4	1,232.7	758.6	2.87	-2.87	0.04
4,245.0	25.41	110.02	3,941.5	-494.5	1,270.8	781.3	0.69	0.67	-0.43
4,340.0	25.90	109.07	4,027.1	-508.3	1,309.6	803.8	0.67	0.52	-1.00
4,436.0	29.98	116.16	4,111.9	-525.7	1,351.0	830.6	5.47	4.25	7.39
4,531.0	32.32	116.38	4,193.2	-547.5	1,395.0	862.1	2.47	2.46	0.23
4,626.0	31.53	111.38	4,273.9	-567.8	1,440.9	892.8	2.90	-0.83	-5.26
4,722.0	32.46	108.63	4,355.3	-585.2	1,488.7	921.0	1.80	0.97	-2.86
4,817.0	32.37	110.17	4,435.5	-602.1	1,536.8	948.8	0.87	-0.09	1.62
4,913.0	32.49	107.27	4,516.5	-618.6	1,585.5	976.4	1.62	0.13	-3.02

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Survey										
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5,007.0	35.86	107.45	4,594.3	-634.4	1,635.9	1,003.6	3.59	3.59	0.19	
5,103.0	34.42	108.16	4,672.8	-651.3	1,688.5	1,032.5	1.56	-1.50	0.74	
5,198.0	31.15	107.82	4,752.7	-667.2	1,737.4	1,059.5	3.45	-3.44	-0.36	
5,294.0	32.89	109.71	4,834.1	-683.5	1,785.6	1,086.8	2.09	1.81	1.97	
5,389.0	32.49	110.71	4,914.0	-701.3	1,833.7	1,115.4	0.71	-0.42	1.05	
5,484.0	33.59	108.29	4,993.6	-718.5	1,882.6	1,143.8	1.81	1.16	-2.55	
5,580.0	36.41	107.51	5,072.3	-735.4	1,935.0	1,172.6	2.97	2.94	-0.81	
5,675.0	35.30	107.68	5,149.3	-752.3	1,988.0	1,201.5	1.17	-1.17	0.18	
5,771.0	32.16	106.41	5,229.1	-767.9	2,039.0	1,228.8	3.35	-3.27	-1.32	
5,866.0	33.32	108.95	5,309.0	-783.5	2,087.9	1,255.5	1.89	1.22	2.67	
5,962.0	30.83	107.69	5,390.4	-799.6	2,136.3	1,282.5	2.69	-2.59	-1.31	
6,057.0	32.59	107.40	5,471.2	-814.6	2,183.9	1,308.4	1.86	1.85	-0.31	
6,153.0	38.49	109.27	5,549.3	-832.2	2,236.8	1,338.1	6.25	6.15	1.95	
6,248.0	36.68	109.44	5,624.5	-851.4	2,291.5	1,369.7	1.91	-1.91	0.18	
6,343.0	34.09	109.06	5,702.0	-869.6	2,343.4	1,399.6	2.74	-2.73	-0.40	
6,439.0	30.79	107.33	5,783.0	-885.7	2,392.3	1,426.8	3.57	-3.44	-1.80	
6,534.0	30.61	112.05	5,864.7	-902.0	2,437.9	1,453.5	2.54	-0.19	4.97	
6,630.0	28.49	111.65	5,948.2	-919.6	2,481.9	1,481.0	2.22	-2.21	-0.42	
6,725.0	25.46	111.61	6,032.8	-935.5	2,521.9	1,505.9	3.19	-3.19	-0.04	
6,821.0	22.21	103.84	6,120.7	-947.5	2,558.7	1,526.2	4.70	-3.39	-8.09	
6,916.0	19.22	102.19	6,209.5	-955.1	2,591.5	1,541.4	3.21	-3.15	-1.74	
7,012.0	16.08	107.37	6,301.0	-962.4	2,619.6	1,555.1	3.65	-3.27	5.40	
7,107.0	12.37	113.28	6,393.1	-970.3	2,641.5	1,568.0	4.19	-3.91	6.22	
7,203.0	10.01	115.17	6,487.2	-977.9	2,658.5	1,579.5	2.49	-2.46	1.97	
7,298.0	7.96	102.46	6,581.1	-982.9	2,672.4	1,587.5	2.99	-2.16	-13.38	
7,393.0	5.87	112.45	6,675.4	-986.1	2,683.3	1,593.3	2.53	-2.20	10.52	
7,489.0	3.32	94.30	6,771.1	-988.2	2,690.6	1,597.1	3.03	-2.66	-18.91	
7,585.0	2.17	85.33	6,867.0	-988.3	2,695.2	1,598.2	1.28	-1.20	-9.34	
7,680.0	1.10	15.85	6,961.9	-987.3	2,697.3	1,597.7	2.17	-1.13	-73.14	
7,776.0	1.75	312.56	7,057.9	-985.4	2,696.4	1,595.7	1.66	0.68	-65.93	
7,872.0	1.68	316.06	7,153.9	-983.4	2,694.4	1,593.2	0.13	-0.07	3.65	
7,967.0	1.77	302.21	7,248.8	-981.6	2,692.2	1,591.0	0.45	0.09	-14.58	
8,063.0	2.22	272.40	7,344.8	-980.7	2,689.1	1,589.4	1.16	0.47	-31.05	
8,158.0	2.81	281.75	7,439.7	-980.2	2,685.0	1,587.9	0.75	0.62	9.84	
8,277.0	2.28	259.02	7,558.6	-980.0	2,679.8	1,586.5	0.95	-0.45	-19.10	
8,373.0	11.10	185.34	7,653.9	-989.6	2,677.0	1,595.2	11.13	9.19	-76.75	
8,468.0	20.32	183.33	7,745.2	-1,015.2	2,675.2	1,619.7	9.72	9.71	-2.12	
8,564.0	29.28	184.58	7,832.3	-1,055.4	2,672.4	1,658.0	9.35	9.33	1.30	
8,659.0	41.76	184.03	7,909.5	-1,110.3	2,668.3	1,710.4	13.14	13.14	-0.58	
8,755.0	54.48	181.60	7,973.4	-1,181.5	2,664.9	1,778.8	13.38	13.25	-2.53	
8,850.0	65.73	178.35	8,020.7	-1,263.8	2,665.1	1,858.7	12.21	11.84	-3.42	
8,946.0	73.30	177.97	8,054.3	-1,353.6	2,668.0	1,946.7	7.89	7.89	-0.40	
9,041.0	77.07	177.61	8,078.6	-1,445.3	2,671.5	2,036.7	3.99	3.97	-0.38	

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9,137.0	85.64	178.00	8,093.0	-1,540.1	2,675.2	2,129.6	8.94	8.93	0.41
9,144.7	85.76	178.05	8,093.6	-1,547.8	2,675.4	2,137.1	1.67	1.52	0.71
Cross 460' FNL 9144.7 MD/8093.6 TVD -1547.8 S 2675.4 E N: 1248210.9 E: 3140863.7									
9,232.0	87.08	178.67	8,099.0	-1,634.8	2,677.9	2,222.3	1.67	1.52	0.71
9,328.0	90.45	179.14	8,101.1	-1,730.8	2,679.7	2,316.0	3.54	3.51	0.49
9,423.0	90.89	178.86	8,100.0	-1,825.8	2,681.4	2,408.6	0.55	0.46	-0.29
9,519.0	91.01	179.30	8,098.4	-1,921.7	2,682.9	2,502.2	0.48	0.13	0.46
9,614.0	90.17	179.88	8,097.4	-2,016.7	2,683.6	2,594.7	1.07	-0.88	0.61
9,710.0	89.88	180.96	8,097.4	-2,112.7	2,682.9	2,687.8	1.16	-0.30	1.13
9,805.0	87.96	180.93	8,099.2	-2,207.7	2,681.3	2,779.7	2.02	-2.02	-0.03
9,900.0	89.13	181.55	8,101.6	-2,302.6	2,679.3	2,871.4	1.39	1.23	0.65
9,996.0	87.86	181.90	8,104.1	-2,398.6	2,676.4	2,964.0	1.37	-1.32	0.36
10,091.0	87.89	181.40	8,107.6	-2,493.5	2,673.7	3,055.5	0.53	0.03	-0.53
10,187.0	88.22	181.30	8,110.9	-2,589.4	2,671.4	3,148.2	0.36	0.34	-0.10
10,283.0	88.77	181.52	8,113.4	-2,685.3	2,669.1	3,240.8	0.62	0.57	0.23
10,378.0	87.99	182.10	8,116.1	-2,780.2	2,666.1	3,332.3	1.02	-0.82	0.61
10,474.0	88.55	182.20	8,119.0	-2,876.1	2,662.5	3,424.6	0.59	0.58	0.10
10,569.0	88.87	182.15	8,121.1	-2,971.0	2,658.8	3,516.0	0.34	0.34	-0.05
10,665.0	88.61	180.02	8,123.2	-3,067.0	2,657.0	3,608.8	2.23	-0.27	-2.22
10,760.0	87.93	178.42	8,126.1	-3,161.9	2,658.3	3,701.3	1.83	-0.72	-1.68
10,856.0	87.33	177.55	8,130.1	-3,257.8	2,661.7	3,795.3	1.10	-0.63	-0.91
10,951.0	90.17	177.39	8,132.1	-3,352.7	2,665.9	3,888.4	2.99	2.99	-0.17
11,047.0	90.54	177.36	8,131.5	-3,448.6	2,670.3	3,982.6	0.39	0.39	-0.03
11,143.0	90.25	178.24	8,130.9	-3,544.5	2,674.0	4,076.7	0.97	-0.30	0.92
11,238.0	89.77	179.26	8,130.9	-3,639.5	2,676.0	4,169.5	1.19	-0.51	1.07
11,334.0	89.79	179.63	8,131.2	-3,735.4	2,677.0	4,263.0	0.39	0.02	0.39
11,429.0	89.19	179.45	8,132.1	-3,830.4	2,677.7	4,355.4	0.66	-0.63	-0.19
11,525.0	89.35	179.06	8,133.3	-3,926.4	2,679.0	4,449.0	0.44	0.17	-0.41
11,620.0	89.79	179.23	8,134.0	-4,021.4	2,680.4	4,541.6	0.50	0.46	0.18
11,716.0	89.64	178.98	8,134.5	-4,117.4	2,681.9	4,635.2	0.30	-0.16	-0.26
11,811.0	89.63	178.52	8,135.1	-4,212.4	2,684.0	4,728.0	0.48	-0.01	-0.48
11,907.0	90.35	178.47	8,135.1	-4,308.3	2,686.5	4,821.8	0.75	0.75	-0.05
12,003.0	88.94	179.48	8,135.7	-4,404.3	2,688.2	4,915.5	1.81	-1.47	1.05
12,098.0	89.09	179.48	8,137.3	-4,499.3	2,689.1	5,008.0	0.16	0.16	0.00
12,193.0	89.74	179.28	8,138.3	-4,594.3	2,690.1	5,100.5	0.72	0.68	-0.21
12,288.0	90.14	178.78	8,138.4	-4,689.3	2,691.7	5,193.2	0.67	0.42	-0.53
12,384.0	90.76	178.48	8,137.7	-4,785.2	2,694.0	5,287.0	0.72	0.65	-0.31
12,479.0	88.46	178.35	8,138.3	-4,880.2	2,696.6	5,379.8	2.42	-2.42	-0.14
12,575.0	88.38	177.41	8,141.0	-4,976.1	2,700.2	5,473.9	0.98	-0.08	-0.98
12,670.0	89.32	178.36	8,142.9	-5,071.0	2,703.7	5,566.9	1.41	0.99	1.00
12,766.0	89.84	177.95	8,143.6	-5,167.0	2,706.8	5,660.9	0.69	0.54	-0.43
12,861.0	89.35	179.43	8,144.2	-5,261.9	2,708.9	5,753.6	1.64	-0.52	1.56
12,957.0	89.80	181.04	8,145.0	-5,357.9	2,708.6	5,846.8	1.74	0.47	1.68
13,052.0	89.88	180.90	8,145.2	-5,452.9	2,706.9	5,938.7	0.17	0.08	-0.15

Survey Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well Coyote Trails 34S-20-11C
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KB=29 @ 5299.0usft
Site:	Sec 28-T1N-R68W 29' KB TRUE	MD Reference:	KB=29 @ 5299.0usft
Well:	Coyote Trails 34S-20-11C	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,148.0	90.10	179.14	8,145.2	-5,548.9	2,706.9	6,032.0	1.85	0.23	-1.83
13,243.0	89.93	179.17	8,145.2	-5,643.9	2,708.3	6,124.6	0.18	-0.18	0.03
13,338.0	90.19	179.14	8,145.1	-5,738.9	2,709.7	6,217.2	0.28	0.27	-0.03
13,434.0	90.08	180.31	8,144.9	-5,834.9	2,710.2	6,310.6	1.22	-0.11	1.22
13,530.0	89.40	181.12	8,145.3	-5,930.9	2,709.0	6,403.6	1.10	-0.71	0.84
13,625.0	89.97	180.33	8,145.8	-6,025.9	2,707.8	6,495.6	1.03	0.60	-0.83
13,721.0	88.67	180.79	8,147.0	-6,121.8	2,706.8	6,588.6	1.44	-1.35	0.48
13,816.0	88.53	180.83	8,149.3	-6,216.8	2,705.5	6,680.6	0.15	-0.15	0.04
13,912.0	87.53	180.07	8,152.6	-6,312.7	2,704.7	6,773.6	1.31	-1.04	-0.79
14,007.0	88.22	178.63	8,156.1	-6,407.7	2,705.8	6,866.1	1.68	0.73	-1.52
14,103.0	89.40	177.54	8,158.1	-6,503.6	2,709.0	6,960.0	1.67	1.23	-1.14
14,198.0	89.30	178.13	8,159.2	-6,598.5	2,712.6	7,053.1	0.63	-0.11	0.62
14,294.0	89.93	179.01	8,159.8	-6,694.5	2,715.0	7,146.9	1.13	0.66	0.92
14,389.0	89.79	178.30	8,160.1	-6,789.5	2,717.2	7,239.7	0.76	-0.15	-0.75
14,485.0	89.60	178.45	8,160.6	-6,885.4	2,720.0	7,333.6	0.25	-0.20	0.16
14,580.0	89.64	179.68	8,161.2	-6,980.4	2,721.5	7,426.2	1.30	0.04	1.29
14,676.0	88.76	179.80	8,162.6	-7,076.4	2,721.9	7,519.6	0.93	-0.92	0.13
14,771.0	90.29	180.14	8,163.3	-7,171.4	2,722.0	7,611.9	1.65	1.61	0.36
14,867.0	90.78	180.12	8,162.4	-7,267.4	2,721.8	7,705.1	0.51	0.51	-0.02
14,962.0	91.09	180.17	8,160.9	-7,362.4	2,721.5	7,797.4	0.33	0.33	0.05
15,057.0	91.59	179.57	8,158.7	-7,457.3	2,721.8	7,889.7	0.82	0.53	-0.63
15,153.0	90.41	180.07	8,157.0	-7,553.3	2,722.1	7,983.0	1.33	-1.23	0.52
15,249.0	90.02	179.30	8,156.6	-7,649.3	2,722.6	8,076.4	0.90	-0.41	-0.80
15,344.0	89.60	178.50	8,157.0	-7,744.3	2,724.4	8,169.1	0.95	-0.44	-0.84
15,439.0	89.67	178.02	8,157.6	-7,839.3	2,727.3	8,262.1	0.51	0.07	-0.51
15,535.0	89.79	178.32	8,158.0	-7,935.2	2,730.4	8,356.0	0.34	0.13	0.31
15,630.0	90.12	179.14	8,158.1	-8,030.2	2,732.5	8,448.8	0.93	0.35	0.86
15,726.0	89.62	179.76	8,158.3	-8,126.2	2,733.4	8,542.3	0.83	-0.52	0.65
15,821.0	90.17	181.45	8,158.5	-8,221.2	2,732.4	8,634.3	1.87	0.58	1.78
15,917.0	90.58	181.68	8,157.8	-8,317.1	2,729.8	8,726.9	0.49	0.43	0.24
16,012.0	90.83	181.64	8,156.7	-8,412.1	2,727.0	8,818.5	0.27	0.26	-0.04
16,108.0	90.55	181.01	8,155.5	-8,508.0	2,724.8	8,911.2	0.72	-0.29	-0.66
16,203.0	89.31	179.62	8,155.6	-8,603.0	2,724.3	9,003.4	1.96	-1.31	-1.46
16,298.0	88.31	177.98	8,157.6	-8,698.0	2,726.3	9,096.1	2.02	-1.05	-1.73
16,394.0	88.22	178.48	8,160.5	-8,793.9	2,729.2	9,190.0	0.53	-0.09	0.52
16,489.0	89.16	179.87	8,162.7	-8,888.9	2,730.6	9,282.6	1.77	0.99	1.46
16,585.0	89.58	180.59	8,163.7	-8,984.9	2,730.2	9,375.8	0.87	0.44	0.75
16,680.0	89.61	180.41	8,164.4	-9,079.9	2,729.4	9,467.9	0.19	0.03	-0.19
16,776.0	89.79	179.23	8,164.9	-9,175.8	2,729.7	9,561.2	1.24	0.19	-1.23
16,871.0	89.46	179.01	8,165.5	-9,270.8	2,731.1	9,653.9	0.42	-0.35	-0.23
16,967.0	89.40	179.23	8,166.5	-9,366.8	2,732.6	9,747.5	0.24	-0.06	0.23
17,062.0	89.39	178.86	8,167.5	-9,461.8	2,734.2	9,840.1	0.39	-0.01	-0.39
17,157.0	90.09	180.34	8,167.9	-9,556.8	2,734.9	9,932.6	1.72	0.74	1.56

Survey Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well Coyote Trails 34S-20-11C
Project:	WELD COUNTY, COLORADO (NAD 83)	TVD Reference:	KB=29 @ 5299.0usft
Site:	Sec 28-T1N-R68W 29' KB TRUE	MD Reference:	KB=29 @ 5299.0usft
Well:	Coyote Trails 34S-20-11C	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,253.0	91.12	180.62	8,166.9	-9,652.8	2,734.0	10,025.6	1.11	1.07	0.29	
17,349.0	92.86	180.73	8,163.6	-9,748.7	2,732.9	10,118.6	1.82	1.81	0.11	
17,444.0	90.28	184.14	8,161.0	-9,843.6	2,728.9	10,209.8	4.50	-2.72	3.59	
17,540.0	89.54	184.56	8,161.1	-9,939.3	2,721.6	10,301.1	0.89	-0.77	0.44	
17,635.0	88.84	184.05	8,162.5	-10,034.0	2,714.5	10,391.4	0.91	-0.74	-0.54	
17,730.0	90.21	184.06	8,163.3	-10,128.8	2,707.8	10,481.9	1.44	1.44	0.01	
17,825.0	89.82	183.39	8,163.2	-10,223.6	2,701.6	10,572.5	0.82	-0.41	-0.71	
17,921.0	89.68	182.10	8,163.7	-10,319.5	2,697.0	10,664.6	1.35	-0.15	-1.34	
18,016.0	89.25	179.94	8,164.5	-10,414.4	2,695.3	10,756.5	2.32	-0.45	-2.27	
18,112.0	89.82	180.35	8,165.3	-10,510.4	2,695.1	10,849.7	0.73	0.59	0.43	
18,207.0	89.42	178.51	8,166.0	-10,605.4	2,696.0	10,942.2	1.98	-0.42	-1.94	
18,303.0	89.14	177.90	8,167.2	-10,701.4	2,699.0	11,036.1	0.70	-0.29	-0.64	
18,398.0	89.91	177.87	8,167.9	-10,796.3	2,702.5	11,129.2	0.81	0.81	-0.03	
18,494.0	88.54	177.48	8,169.2	-10,892.2	2,706.4	11,223.3	1.48	-1.43	-0.41	
18,511.0	88.70	177.40	8,169.7	-10,909.2	2,707.2	11,240.0	1.07	0.97	-0.45	
Cross 460' FSL 18511 MD/8169.7 TVD -10909.2 S 2702.2 E N: 1238850.1 E: 3140947.5										
18,589.0	89.46	177.05	8,170.9	-10,987.1	2,710.9	11,316.5	1.07	0.97	-0.45	
18,685.0	88.76	177.49	8,172.4	-11,083.0	2,715.5	11,410.8	0.86	-0.73	0.46	
Last MWD Survey 18685 MD/8172.4 TVD -11083.0 S 2715.5 E N: 1238676.4 E: 3140956.8										
18,760.0	88.76	177.49	8,174.0	-11,157.9	2,718.8	11,484.3	0.00	0.00	0.00	
PTB 18760 MD/8174 TVD -11157.9 S 2718.8 E N: 1238601.5 E: 3140960.5										

Survey Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
124.0	124.0	-0.5	-0.3	1st MWD Survey
9,144.7	8,093.6	-1,547.8	2,675.4	Cross 460' FNL 9144.7 MD/8093.6 TVD -1547.8 S 2675.4 E N: 1248210.9 E: 3140947.5
18,511.0	8,169.7	-10,909.2	2,707.2	Cross 460' FSL 18511 MD/8169.7 TVD -10909.2 S 2702.2 E N: 1238850.1 E: 3140947.5
18,685.0	8,172.4	-11,083.0	2,715.5	Last MWD Survey 18685 MD/8172.4 TVD -11083.0 S 2715.5 E N: 1238676.4 E: 3140956.8
18,760.0	8,174.0	-11,157.9	2,718.8	PTB 18760 MD/8174 TVD -11157.9 S 2718.8 E N: 1238601.5 E: 3140960.5

Checked By: _____ Approved By: _____ Date: _____