

EXTRACTION OIL & GAS

WELD COUNTY, COLORADO (NAD 83)

Sec 28-T1N-R68W 29' KB TRUE

Coyote Trails 34S-20-10N

Wellbore #1

Survey: Survey #1

Standard Survey Report

15 February, 2018

Survey Report

Company: EXTRACTION OIL & GAS	Local Co-ordinate Reference: Well Coyote Trails 34S-20-10N
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-20-10N	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-20-10N			
Well Position	+N/-S 0.0 usft	Northing: 1,249,743.73 usft	Latitude: 40° 1' 4.362 N
	+E/-W 0.0 usft	Easting: 3,138,161.85 usft	Longitude: 105° 0' 24.133 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	168.06

Survey Program		Date 2/15/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
224.0	18,350.0	Survey #1 (Wellbore #1)	MWD	MWD - Standard

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	
224.0	0.62	127.18	224.0	-0.7	1.0	0.9	0.28	0.28	0.00	
1st MWD Survey										
315.0	0.49	134.49	315.0	-1.3	1.6	1.6	0.16	-0.14	8.03	
410.0	0.62	123.17	410.0	-1.9	2.4	2.3	0.18	0.14	-11.92	
505.0	0.31	140.88	505.0	-2.3	2.9	2.9	0.36	-0.33	18.64	
601.0	0.31	177.37	601.0	-2.8	3.1	3.4	0.20	0.00	38.01	
697.0	0.40	190.90	697.0	-3.4	3.1	4.0	0.13	0.09	14.09	
792.0	1.41	107.39	792.0	-4.1	4.1	4.8	1.50	1.06	-87.91	
888.0	3.71	107.96	887.9	-5.4	8.2	7.0	2.40	2.40	0.59	
983.0	6.72	108.89	982.5	-8.1	16.4	11.3	3.17	3.17	0.98	

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Well:	Coyote Trails 34S-20-10N	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)	
1,078.0	8.48	107.26	1,076.6	-12.0	28.3	17.6	1.87	1.85	-1.72	
1,174.0	11.49	112.46	1,171.2	-17.8	43.9	26.5	3.27	3.14	5.42	
1,269.0	13.39	114.18	1,263.9	-25.9	62.7	38.3	2.04	2.00	1.81	
1,364.0	13.08	110.78	1,356.4	-34.2	82.8	50.6	0.88	-0.33	-3.58	
1,460.0	14.80	110.87	1,449.6	-42.4	104.4	63.1	1.79	1.79	0.09	
1,555.0	16.88	111.18	1,541.0	-51.7	128.6	77.2	2.19	2.19	0.33	
1,667.0	17.10	111.71	1,648.1	-63.7	159.1	95.2	0.24	0.20	0.47	
1,763.0	19.18	115.02	1,739.3	-75.6	186.5	112.5	2.42	2.17	3.45	
1,858.0	22.49	112.42	1,828.1	-89.1	217.4	132.2	3.62	3.48	-2.74	
1,953.0	25.81	114.71	1,914.8	-104.7	253.0	154.8	3.63	3.49	2.41	
2,049.0	27.62	110.13	2,000.5	-121.1	292.9	179.1	2.85	1.89	-4.77	
2,145.0	29.78	111.93	2,084.7	-137.7	335.9	204.2	2.42	2.25	1.88	
2,240.0	28.68	110.70	2,167.6	-154.5	379.1	229.6	1.32	-1.16	-1.29	
2,336.0	30.89	111.54	2,250.9	-171.7	423.6	255.6	2.34	2.30	0.88	
2,431.0	29.92	108.32	2,332.9	-188.1	468.8	281.0	2.00	-1.02	-3.39	
2,526.0	31.11	111.54	2,414.7	-204.6	514.1	306.5	2.13	1.25	3.39	
2,622.0	30.31	116.91	2,497.3	-224.7	558.8	335.4	2.97	-0.83	5.59	
2,717.0	28.99	114.93	2,579.8	-245.2	601.1	364.2	1.73	-1.39	-2.08	
2,812.0	28.41	120.00	2,663.2	-266.2	641.5	393.1	2.63	-0.61	5.34	
2,908.0	29.52	113.92	2,747.2	-287.2	682.9	422.3	3.28	1.16	-6.33	
3,003.0	30.58	113.21	2,829.4	-306.3	726.5	449.9	1.18	1.12	-0.75	
3,099.0	28.50	113.92	2,912.9	-325.2	769.9	477.4	2.20	-2.17	0.74	
3,194.0	28.10	116.52	2,996.6	-344.3	810.6	504.6	1.36	-0.42	2.74	
3,290.0	30.09	107.13	3,080.5	-361.5	853.9	530.3	5.18	2.07	-9.78	
3,386.0	30.31	108.54	3,163.5	-376.3	899.9	554.3	0.77	0.23	1.47	
3,481.0	30.89	117.71	3,245.3	-395.3	944.2	582.0	4.95	0.61	9.65	
3,577.0	30.89	112.20	3,327.7	-416.1	988.9	611.6	2.95	0.00	-5.74	
3,767.0	28.99	109.51	3,492.3	-449.9	1,077.4	663.0	1.22	-1.00	-1.42	
3,863.0	28.28	113.43	3,576.6	-466.7	1,120.2	688.3	2.09	-0.74	4.08	
3,958.0	30.40	112.64	3,659.4	-484.9	1,163.1	715.0	2.27	2.23	-0.83	
4,054.0	31.42	120.62	3,741.8	-507.0	1,207.0	745.7	4.40	1.06	8.31	
4,149.0	30.31	113.04	3,823.4	-529.0	1,250.4	776.2	4.25	-1.17	-7.98	
4,245.0	31.11	113.30	3,905.9	-548.3	1,295.5	804.4	0.84	0.83	0.27	
4,340.0	28.41	111.80	3,988.4	-566.4	1,339.0	831.1	2.95	-2.84	-1.58	
4,436.0	28.81	112.02	4,072.7	-583.6	1,381.7	856.7	0.43	0.42	0.23	
4,531.0	30.09	113.21	4,155.4	-601.5	1,424.8	883.2	1.48	1.35	1.25	
4,626.0	31.29	111.54	4,237.1	-620.0	1,469.6	910.5	1.55	1.26	-1.76	
4,722.0	31.90	115.64	4,318.9	-640.1	1,515.7	939.7	2.33	0.64	4.27	
4,817.0	29.21	111.54	4,400.7	-659.5	1,559.9	967.8	3.58	-2.83	-4.32	
4,913.0	29.92	112.11	4,484.2	-677.1	1,603.9	994.2	0.80	0.74	0.59	
5,008.0	31.51	114.62	4,565.8	-696.4	1,648.4	1,022.2	2.15	1.67	2.64	
5,103.0	28.99	114.93	4,647.9	-716.4	1,691.8	1,050.8	2.66	-2.65	0.33	
5,198.0	30.49	111.80	4,730.4	-735.1	1,735.1	1,078.0	2.27	1.58	-3.29	

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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)	
5,294.0	31.90	115.50	4,812.5	-755.0	1,780.6	1,107.0	2.48	1.47	3.85	
5,389.0	29.61	115.24	4,894.1	-775.8	1,824.5	1,136.4	2.41	-2.41	-0.27	
5,485.0	31.20	107.13	4,977.0	-793.3	1,869.7	1,162.8	4.58	1.66	-8.45	
5,580.0	31.99	105.24	5,057.9	-807.2	1,917.5	1,186.3	1.33	0.83	-1.99	
5,675.0	32.70	107.44	5,138.2	-821.5	1,966.3	1,210.4	1.45	0.75	2.32	
5,771.0	29.61	115.42	5,220.3	-839.4	2,012.5	1,237.5	5.37	-3.22	8.31	
5,866.0	27.09	113.43	5,303.9	-858.1	2,053.5	1,264.2	2.83	-2.65	-2.09	
5,985.0	24.08	103.91	5,411.3	-874.7	2,102.0	1,290.5	4.27	-2.53	-8.00	
6,081.0	22.01	104.00	5,499.6	-883.8	2,138.5	1,306.9	2.16	-2.16	0.09	
6,176.0	20.19	116.74	5,588.3	-895.5	2,170.4	1,325.0	5.18	-1.92	13.41	
6,272.0	17.01	111.54	5,679.3	-908.1	2,198.3	1,343.1	3.73	-3.31	-5.42	
6,367.0	15.60	121.01	5,770.5	-919.8	2,222.1	1,359.5	3.16	-1.48	9.97	
6,462.0	11.89	123.04	5,862.8	-931.7	2,241.3	1,375.1	3.94	-3.91	2.14	
6,558.0	9.72	126.83	5,957.0	-941.9	2,256.1	1,388.2	2.38	-2.26	3.95	
6,654.0	6.81	116.34	6,052.0	-949.3	2,267.7	1,397.8	3.40	-3.03	-10.93	
6,749.0	5.61	114.93	6,146.5	-953.8	2,276.9	1,404.1	1.27	-1.26	-1.48	
6,845.0	3.09	126.61	6,242.2	-957.3	2,283.3	1,408.8	2.77	-2.63	12.17	
6,940.0	2.61	125.82	6,337.1	-960.1	2,287.1	1,412.3	0.51	-0.51	-0.83	
7,035.0	2.21	109.33	6,432.0	-962.0	2,290.5	1,414.9	0.84	-0.42	-17.36	
7,131.0	1.02	39.00	6,528.0	-961.9	2,292.8	1,415.3	2.19	-1.24	-73.26	
7,227.0	0.22	108.94	6,624.0	-961.3	2,293.5	1,414.9	1.01	-0.83	72.85	
7,322.0	0.09	7.92	6,719.0	-961.3	2,293.7	1,414.9	0.27	-0.14	-106.34	
7,417.0	0.31	332.14	6,814.0	-961.0	2,293.6	1,414.6	0.26	0.23	-37.66	
7,513.0	0.49	331.21	6,910.0	-960.4	2,293.3	1,413.9	0.19	0.19	-0.97	
7,609.0	0.49	99.82	7,006.0	-960.1	2,293.5	1,413.7	0.92	0.00	133.97	
7,704.0	0.31	70.20	7,101.0	-960.1	2,294.1	1,413.8	0.28	-0.19	-31.18	
7,800.0	8.62	160.72	7,196.6	-966.8	2,296.8	1,420.9	8.99	8.66	94.29	
7,895.0	18.52	162.83	7,288.8	-988.0	2,303.6	1,443.1	10.43	10.42	2.22	
7,991.0	29.30	165.12	7,376.5	-1,025.4	2,314.2	1,481.8	11.27	11.23	2.39	
8,087.0	30.89	164.51	7,459.5	-1,071.8	2,326.8	1,529.9	1.69	1.66	-0.64	
8,182.0	39.28	170.81	7,537.2	-1,125.1	2,338.1	1,584.4	9.61	8.83	6.63	
8,277.0	47.19	175.30	7,606.4	-1,189.7	2,345.8	1,649.1	8.93	8.33	4.73	
8,373.0	53.29	178.92	7,667.8	-1,263.3	2,349.4	1,721.9	6.98	6.35	3.77	
8,468.0	55.59	177.42	7,723.0	-1,340.6	2,351.9	1,798.0	2.74	2.42	-1.58	
8,564.0	61.38	179.23	7,773.2	-1,422.3	2,354.2	1,878.5	6.24	6.03	1.89	
8,659.0	67.52	182.53	7,814.1	-1,508.0	2,352.9	1,962.0	7.18	6.46	3.47	
8,702.0	69.58	182.21	7,829.9	-1,548.0	2,351.2	2,000.8	4.84	4.79	-0.74	
Cross 460' FNL 8702' MD/7829.9 TVD -1548 S 2351.2 E N: 1248208.9 E: 3140521.5										
8,755.0	72.12	181.83	7,847.2	-1,598.0	2,349.4	2,049.3	4.84	4.79	-0.72	
8,850.0	80.51	182.31	7,869.7	-1,690.2	2,346.1	2,138.8	8.85	8.83	0.51	
8,946.0	85.02	183.63	7,881.8	-1,785.2	2,341.2	2,230.8	4.89	4.70	1.38	
9,042.0	85.99	183.72	7,889.3	-1,880.7	2,335.0	2,323.0	1.01	1.01	0.09	
9,137.0	87.98	183.50	7,894.3	-1,975.4	2,329.0	2,414.4	2.11	2.09	-0.23	

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9,232.0	88.29	182.93	7,897.4	-2,070.2	2,323.7	2,506.0	0.68	0.33	-0.60	
9,328.0	89.22	182.93	7,899.5	-2,166.1	2,318.8	2,598.8	0.97	0.97	0.00	
9,423.0	90.01	183.41	7,900.1	-2,260.9	2,313.6	2,690.5	0.97	0.83	0.51	
9,519.0	90.81	182.31	7,899.4	-2,356.8	2,308.8	2,783.3	1.42	0.83	-1.15	
9,615.0	91.38	182.71	7,897.6	-2,452.7	2,304.6	2,876.3	0.73	0.59	0.42	
9,710.0	92.09	182.53	7,894.7	-2,547.5	2,300.2	2,968.2	0.77	0.75	-0.19	
9,805.0	91.30	181.34	7,891.9	-2,642.4	2,297.0	3,060.4	1.50	-0.83	-1.25	
9,901.0	90.50	181.52	7,890.4	-2,738.4	2,294.6	3,153.8	0.85	-0.83	0.19	
9,996.0	90.19	180.41	7,889.8	-2,833.4	2,293.0	3,246.4	1.21	-0.33	-1.17	
10,092.0	90.19	176.63	7,889.5	-2,929.3	2,295.5	3,340.7	3.94	0.00	-3.94	
10,187.0	90.99	179.14	7,888.5	-3,024.3	2,299.0	3,434.3	2.77	0.84	2.64	
10,283.0	89.70	178.21	7,888.0	-3,120.2	2,301.2	3,528.7	1.66	-1.34	-0.97	
10,379.0	88.60	177.42	7,889.4	-3,216.1	2,304.9	3,623.3	1.41	-1.15	-0.82	
10,474.0	89.00	178.21	7,891.4	-3,311.1	2,308.5	3,716.9	0.93	0.42	0.83	
10,570.0	89.48	178.04	7,892.7	-3,407.0	2,311.7	3,811.4	0.53	0.50	-0.18	
10,665.0	88.60	176.54	7,894.2	-3,501.9	2,316.1	3,905.2	1.83	-0.93	-1.58	
10,761.0	89.00	176.63	7,896.3	-3,597.7	2,321.9	4,000.1	0.43	0.42	0.09	
10,856.0	89.09	177.33	7,897.8	-3,692.5	2,326.9	4,093.9	0.74	0.09	0.74	
10,952.0	89.22	176.54	7,899.3	-3,788.4	2,332.0	4,188.8	0.83	0.14	-0.82	
11,047.0	90.19	179.93	7,899.7	-3,883.3	2,334.9	4,282.3	3.71	1.02	3.57	
11,143.0	89.88	180.02	7,899.7	-3,979.3	2,335.0	4,376.2	0.34	-0.32	0.09	
11,238.0	89.88	178.43	7,899.9	-4,074.3	2,336.3	4,469.4	1.67	0.00	-1.67	
11,334.0	89.70	179.23	7,900.2	-4,170.3	2,338.2	4,563.7	0.85	-0.19	0.83	
11,429.0	89.88	179.23	7,900.6	-4,265.3	2,339.5	4,656.9	0.19	0.19	0.00	
11,525.0	89.88	178.83	7,900.8	-4,361.3	2,341.1	4,751.1	0.42	0.00	-0.42	
11,620.0	89.79	180.11	7,901.1	-4,456.3	2,342.0	4,844.3	1.35	-0.09	1.35	
11,716.0	90.50	180.11	7,900.8	-4,552.3	2,341.8	4,938.2	0.74	0.74	0.00	
11,811.0	90.01	180.90	7,900.4	-4,647.2	2,341.0	5,030.9	0.98	-0.52	0.83	
11,907.0	89.88	182.22	7,900.5	-4,743.2	2,338.4	5,124.3	1.38	-0.14	1.38	
12,003.0	90.28	182.93	7,900.3	-4,839.1	2,334.0	5,217.2	0.85	0.42	0.74	
12,098.0	88.29	182.84	7,901.5	-4,934.0	2,329.3	5,309.0	2.10	-2.09	-0.09	
12,193.0	88.69	182.00	7,904.0	-5,028.9	2,325.3	5,401.0	0.98	0.42	-0.88	
12,289.0	88.60	179.53	7,906.3	-5,124.8	2,324.0	5,494.7	2.57	-0.09	-2.57	
12,384.0	88.91	179.62	7,908.4	-5,219.8	2,324.7	5,587.7	0.34	0.33	0.09	
12,480.0	89.79	178.30	7,909.5	-5,315.8	2,326.4	5,682.0	1.65	0.92	-1.38	
12,575.0	90.81	178.83	7,909.0	-5,410.7	2,328.8	5,775.4	1.21	1.07	0.56	
12,670.0	90.19	178.83	7,908.1	-5,505.7	2,330.7	5,868.7	0.65	-0.65	0.00	
12,766.0	89.40	181.12	7,908.5	-5,601.7	2,330.8	5,962.6	2.52	-0.82	2.39	
12,862.0	89.70	180.33	7,909.2	-5,697.7	2,329.6	6,056.3	0.88	0.31	-0.82	
12,957.0	90.19	179.80	7,909.3	-5,792.7	2,329.5	6,149.2	0.76	0.52	-0.56	
13,053.0	92.49	179.00	7,907.1	-5,888.7	2,330.5	6,243.3	2.54	2.40	-0.83	
13,148.0	90.81	179.31	7,904.3	-5,983.6	2,331.9	6,336.5	1.80	-1.77	0.33	
13,244.0	88.91	180.24	7,904.6	-6,079.6	2,332.2	6,430.5	2.20	-1.98	0.97	
13,339.0	89.48	180.81	7,905.9	-6,174.6	2,331.4	6,523.2	0.85	0.60	0.60	

Survey Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well Coyote Trails 34S-20-10N
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-20-10N	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)	
13,435.0	89.70	180.02	7,906.6	-6,270.6	2,330.7	6,617.0	0.85	0.23	-0.82	
13,530.0	87.98	180.41	7,908.5	-6,365.6	2,330.3	6,709.9	1.86	-1.81	0.41	
13,626.0	88.60	181.03	7,911.4	-6,461.5	2,329.1	6,803.5	0.91	0.65	0.65	
13,721.0	88.82	181.12	7,913.5	-6,556.5	2,327.3	6,896.0	0.25	0.23	0.09	
13,817.0	89.79	179.93	7,914.7	-6,652.4	2,326.5	6,989.8	1.60	1.01	-1.24	
13,912.0	90.19	177.73	7,914.7	-6,747.4	2,328.4	7,083.1	2.35	0.42	-2.32	
14,008.0	88.91	178.43	7,915.5	-6,843.4	2,331.6	7,177.6	1.52	-1.33	0.73	
14,103.0	89.00	177.90	7,917.2	-6,938.3	2,334.6	7,271.1	0.57	0.09	-0.56	
14,199.0	89.40	177.51	7,918.5	-7,034.2	2,338.5	7,365.8	0.58	0.42	-0.41	
14,294.0	89.88	177.11	7,919.1	-7,129.1	2,343.0	7,459.5	0.66	0.51	-0.42	
14,389.0	90.81	178.43	7,918.6	-7,224.0	2,346.6	7,553.2	1.70	0.98	1.39	
14,485.0	90.59	178.12	7,917.4	-7,320.0	2,349.5	7,647.6	0.40	-0.23	-0.32	
14,581.0	90.10	180.02	7,916.8	-7,416.0	2,351.1	7,741.9	2.04	-0.51	1.98	
14,676.0	88.60	179.93	7,917.9	-7,510.9	2,351.1	7,834.8	1.58	-1.58	-0.09	
14,771.0	88.20	179.62	7,920.5	-7,605.9	2,351.5	7,927.8	0.53	-0.42	-0.33	
14,867.0	88.82	179.71	7,923.0	-7,701.9	2,352.1	8,021.8	0.65	0.65	0.09	
14,962.0	88.91	178.04	7,924.9	-7,796.8	2,353.9	8,115.1	1.76	0.09	-1.76	
15,058.0	89.79	176.93	7,926.0	-7,892.7	2,358.1	8,209.8	1.48	0.92	-1.16	
15,153.0	90.41	176.80	7,925.8	-7,987.6	2,363.3	8,303.7	0.67	0.65	-0.14	
15,248.0	90.28	178.83	7,925.3	-8,082.5	2,367.0	8,397.3	2.14	-0.14	2.14	
15,344.0	91.12	179.80	7,924.1	-8,178.5	2,368.1	8,491.4	1.34	0.88	1.01	
15,440.0	91.21	180.50	7,922.1	-8,274.5	2,367.9	8,585.3	0.74	0.09	0.73	
15,535.0	90.19	182.40	7,921.0	-8,369.4	2,365.5	8,677.7	2.27	-1.07	2.00	
15,631.0	88.69	182.31	7,921.9	-8,465.3	2,361.5	8,770.7	1.57	-1.56	-0.09	
15,726.0	87.98	181.52	7,924.7	-8,560.2	2,358.3	8,862.9	1.12	-0.75	-0.83	
15,822.0	88.38	180.02	7,927.7	-8,656.2	2,357.1	8,956.5	1.62	0.42	-1.56	
15,917.0	88.91	180.64	7,930.0	-8,751.2	2,356.5	9,049.3	0.86	0.56	0.65	
16,013.0	89.62	180.02	7,931.2	-8,847.2	2,356.0	9,143.1	0.98	0.74	-0.65	
16,108.0	90.72	180.02	7,930.9	-8,942.1	2,355.9	9,236.1	1.16	1.16	0.00	
16,203.0	88.91	179.31	7,931.2	-9,037.1	2,356.5	9,329.1	2.05	-1.91	-0.75	
16,299.0	89.40	179.83	7,932.6	-9,133.1	2,357.2	9,423.2	0.74	0.51	0.54	
16,394.0	89.22	180.33	7,933.8	-9,228.1	2,357.1	9,516.1	0.56	-0.19	0.53	
16,490.0	88.69	179.93	7,935.5	-9,324.1	2,356.8	9,609.9	0.69	-0.55	-0.42	
16,585.0	89.31	180.72	7,937.2	-9,419.1	2,356.3	9,702.8	1.06	0.65	0.83	
16,680.0	88.51	180.64	7,939.0	-9,514.1	2,355.2	9,795.5	0.85	-0.84	-0.08	
16,776.0	89.62	179.40	7,940.6	-9,610.0	2,355.1	9,889.4	1.73	1.16	-1.29	
16,871.0	87.98	178.61	7,942.6	-9,705.0	2,356.8	9,982.6	1.92	-1.73	-0.83	
16,967.0	89.70	178.43	7,944.5	-9,801.0	2,359.3	10,077.0	1.80	1.79	-0.19	
17,062.0	88.20	176.32	7,946.3	-9,895.8	2,363.6	10,170.7	2.72	-1.58	-2.22	
17,158.0	89.09	174.82	7,948.5	-9,991.5	2,371.0	10,265.9	1.82	0.93	-1.56	
17,253.0	88.29	175.92	7,950.7	-10,086.2	2,378.7	10,360.1	1.43	-0.84	1.16	
17,349.0	87.80	178.61	7,954.0	-10,182.0	2,383.3	10,454.8	2.85	-0.51	2.80	
17,444.0	88.20	177.90	7,957.3	-10,276.9	2,386.2	10,548.2	0.86	0.42	-0.75	

Survey Report

Company:	EXTRACTION OIL & GAS	Local Co-ordinate Reference:	Well Coyote Trails 34S-20-10N
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-20-10N	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)	
17,540.0	90.41	178.43	7,958.4	-10,372.8	2,389.2	10,642.7	2.37	2.30	0.55	
17,635.0	91.78	181.83	7,956.6	-10,467.8	2,389.0	10,735.6	3.86	1.44	3.58	
17,730.0	91.91	184.12	7,953.6	-10,562.6	2,384.1	10,827.3	2.41	0.14	2.41	
17,826.0	90.41	183.50	7,951.6	-10,658.4	2,377.7	10,919.7	1.69	-1.56	-0.65	
17,921.0	89.88	183.01	7,951.4	-10,753.2	2,372.3	11,011.4	0.76	-0.56	-0.52	
18,017.0	88.20	181.83	7,953.0	-10,849.1	2,368.3	11,104.4	2.14	-1.75	-1.23	
18,076.0	88.14	182.02	7,954.9	-10,908.1	2,366.3	11,161.6	0.33	-0.09	0.32	
Cross 460' FSL 18076 MD/7954.9 TVD -10908.1 S 2366.3 E N: 1238849.3 E: 3140588.7										
18,112.0	88.11	182.13	7,956.1	-10,944.0	2,365.0	11,196.5	0.33	-0.09	0.32	
18,208.0	90.41	180.11	7,957.3	-11,040.0	2,363.1	11,290.0	3.19	2.40	-2.10	
Last MWD Survey 18208 MD/7957.3 TVD -11040 S 2363.1 E N: 1238717.4 E: 3140586.2										
18,350.0	90.41	180.11	7,956.3	-11,182.0	2,362.8	11,428.9	0.00	0.00	0.00	
PTB 18350 MD/7956.3 TVD -11182 S 2362.8 E N: 1238575.4 E: 3140586.7										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
224.0	224.0	-0.7	1.0	1st MWD Survey	
8,702.0	7,829.9	-1,548.0	2,351.2	Cross 460' FNL 8702' MD/7829.9 TVD -1548 S 2351.2 E N: 1248208.9 E: 3140	
18,076.0	7,954.9	-10,908.1	2,366.3	Cross 460' FSL 18076 MD/7954.9 TVD -10908.1 S 2366.3 E N: 1238849.3 E: 3	
18,208.0	7,957.3	-11,040.0	2,363.1	Last MWD Survey 18208 MD/7957.3 TVD -11040 S 2363.1 E N: 1238717.4 E: 3	
18,350.0	7,956.3	-11,182.0	2,362.8	PTB 18350 MD/7956.3 TVD -11182 S 2362.8 E N: 1238575.4 E: 3140586.7	

Checked By: _____ Approved By: _____ Date: _____