

Extraction Oil & Gas

Weld County, CO (NAD83)

Sec 26-T07N-R67W

Launer 3

Wellbore #1

Design: Wellbore #1

Standard Survey Report

15 December, 2017

Survey Report

Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Launer 3
Project:	Weld County, CO (NAD83)	TVD Reference:	KB=25 @ 4953.00ft (Patterson 346)
Site:	Sec 26-T07N-R67W	MD Reference:	KB=25 @ 4953.00ft (Patterson 346)
Well:	Launer 3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Project	Weld County, CO (NAD83)		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 26-T07N-R67W			
Site Position:		Northing:	1,444,245.2190 usft	Latitude:	40.551051
From:	Map	Easting:	3,179,860.1010 usft	Longitude:	-104.852759
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence:	0.42 °

Well	Launer 3					
Well Position	+N/-S	0.00 ft	Northing:	1,440,222.1145 usfi	Latitude:	40.540005
	+E/-W	0.00 ft	Easting:	3,180,026.4614 usfi	Longitude:	-104.852266
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,928.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/12/2017	8.33	66.95	52,389

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	280.80	

Survey Program	Date	12/15/2017			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
495.00	1,514.00	Surface Surveys (Wellbore #1)	NS-GYRO-MS	North sensing gyrocompassing m/s	
1,647.00	14,800.00	MWD Surveys (Wellbore #1)	MWD	MWD - Standard	

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
495.00	0.79	81.42	494.98	0.51	3.37	-3.22	0.16	0.16	0.00	
591.00	0.26	166.24	590.98	0.40	4.08	-3.93	0.84	-0.55	88.35	
686.00	0.62	232.72	685.98	-0.12	3.72	-3.68	0.60	0.38	69.98	
782.00	1.01	267.05	781.97	-0.48	2.46	-2.51	0.63	0.41	35.76	
878.00	1.23	30.45	877.96	0.36	2.14	-2.04	2.06	0.23	128.54	
974.00	0.13	252.90	973.95	1.22	2.56	-2.29	1.38	-1.15	-143.28	
1,070.00	0.44	296.58	1,069.95	1.35	2.13	-1.84	0.37	0.32	45.50	
1,166.00	0.62	264.32	1,165.95	1.46	1.28	-0.98	0.36	0.19	-33.60	
1,261.00	0.35	1.53	1,260.95	1.70	0.78	-0.44	0.79	-0.28	102.33	

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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
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Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,356.00	0.57	98.65	1,355.94	1.92	1.25	-0.87	0.74	0.23	102.23
1,451.00	1.45	163.78	1,450.93	0.70	2.05	-1.89	1.39	0.93	68.56
1,514.00	1.36	194.54	1,513.91	-0.79	2.09	-2.20	1.19	-0.14	48.83
1,647.00	0.88	218.22	1,646.89	-3.12	1.06	-1.63	0.49	-0.36	17.81
First MWD Survey @ 1647'MD									
1,741.00	1.41	5.63	1,740.88	-2.54	0.73	-1.19	2.34	0.56	156.82
1,835.00	4.02	16.44	1,834.77	1.77	1.77	-1.41	2.82	2.78	11.50
1,929.00	6.58	6.64	1,928.36	10.29	3.33	-1.34	2.88	2.72	-10.43
2,024.00	8.22	11.02	2,022.56	22.36	5.26	-0.97	1.82	1.73	4.61
2,118.00	8.09	7.74	2,115.61	35.51	7.43	-0.65	0.51	-0.14	-3.49
2,213.00	8.48	11.24	2,209.62	49.00	9.70	-0.34	0.67	0.41	3.68
2,308.00	10.52	17.46	2,303.32	64.15	13.67	-1.40	2.40	2.15	6.55
2,402.00	12.90	18.73	2,395.35	82.27	19.61	-3.85	2.55	2.53	1.35
2,497.00	14.98	17.85	2,487.55	104.01	26.78	-6.82	2.20	2.19	-0.93
2,591.00	16.88	18.82	2,577.94	128.49	34.91	-10.22	2.04	2.02	1.03
2,686.00	19.80	17.94	2,668.10	156.86	44.31	-14.14	3.09	3.07	-0.93
2,780.00	22.40	14.72	2,755.80	189.33	53.77	-17.35	3.03	2.77	-3.43
2,874.00	23.91	12.82	2,842.22	225.23	62.55	-19.24	1.79	1.61	-2.02
2,968.00	25.10	14.32	2,927.76	263.13	71.71	-21.14	1.43	1.27	1.60
3,062.00	27.31	13.22	3,012.09	303.44	81.57	-23.28	2.41	2.35	-1.17
3,157.00	26.51	10.45	3,096.81	345.51	90.40	-24.07	1.57	-0.84	-2.92
3,251.00	25.50	13.75	3,181.29	385.80	99.02	-24.98	1.88	-1.07	3.51
3,346.00	25.41	16.35	3,267.07	425.22	109.62	-28.01	1.18	-0.09	2.74
3,440.00	26.69	14.63	3,351.52	465.00	120.63	-31.37	1.58	1.36	-1.83
3,535.00	25.01	10.93	3,437.02	505.37	129.82	-32.84	2.45	-1.77	-3.89
3,629.00	25.98	9.92	3,521.86	545.16	137.14	-32.57	1.13	1.03	-1.07
3,723.00	25.19	13.53	3,606.65	584.89	145.37	-33.21	1.86	-0.84	3.84
3,817.00	27.40	18.11	3,690.93	624.91	156.77	-36.91	3.19	2.35	4.87
3,912.00	28.19	17.94	3,774.97	667.04	170.48	-42.49	0.84	0.83	-0.18
4,006.00	28.59	16.35	3,857.66	709.74	183.65	-47.42	0.91	0.43	-1.69
4,100.00	29.12	14.63	3,939.99	753.45	195.76	-51.13	1.05	0.56	-1.83
4,193.00	26.51	16.61	4,022.24	795.25	207.41	-54.74	2.98	-2.81	2.13
4,288.00	23.29	14.54	4,108.40	833.75	218.19	-58.11	3.51	-3.39	-2.18
4,382.00	23.60	14.24	4,194.64	869.98	227.48	-60.46	0.35	0.33	-0.32
4,476.00	24.48	15.82	4,280.49	906.96	237.42	-63.29	1.16	0.94	1.68
4,571.00	24.70	16.70	4,366.87	944.91	248.49	-67.05	0.45	0.23	0.93
4,665.00	28.19	16.84	4,451.02	984.98	260.57	-71.41	3.71	3.71	0.15
4,759.00	26.51	14.85	4,534.52	1,026.51	272.38	-75.23	2.03	-1.79	-2.12
4,853.00	23.42	12.52	4,619.72	1,065.04	281.81	-77.27	3.45	-3.29	-2.48
4,947.00	23.20	17.72	4,706.06	1,100.92	291.49	-80.07	2.20	-0.23	5.53
5,041.00	21.70	15.73	4,792.94	1,135.28	301.84	-83.79	1.79	-1.60	-2.12
5,136.00	20.99	16.04	4,881.42	1,168.54	311.30	-86.86	0.76	-0.75	0.33
5,230.00	19.89	13.22	4,969.50	1,200.29	319.61	-89.07	1.57	-1.17	-3.00

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5,324.00	16.88	9.43	5,058.70	1,229.33	325.51	-89.42	3.44	-3.20	-4.03
5,418.00	15.82	9.65	5,148.89	1,255.42	329.89	-88.84	1.13	-1.13	0.23
5,513.00	13.21	5.72	5,240.86	1,278.99	333.14	-87.62	2.93	-2.75	-4.14
5,607.00	12.90	12.03	5,332.43	1,299.94	336.40	-86.89	1.55	-0.33	6.71
5,701.00	11.49	8.33	5,424.31	1,319.47	339.95	-86.71	1.71	-1.50	-3.94
5,795.00	9.81	18.73	5,516.69	1,336.32	343.87	-87.41	2.71	-1.79	11.06
5,890.00	7.82	10.05	5,610.57	1,350.35	347.60	-88.45	2.51	-2.09	-9.14
5,984.00	5.79	357.12	5,703.91	1,361.38	348.48	-87.24	2.69	-2.16	-13.76
6,078.00	4.51	19.92	5,797.54	1,369.60	349.50	-86.71	2.54	-1.36	24.26
6,172.00	2.12	4.53	5,891.38	1,374.80	350.90	-87.10	2.69	-2.54	-16.37
6,266.00	2.30	346.81	5,985.31	1,378.37	350.60	-86.15	0.75	0.19	-18.85
6,360.00	0.62	274.23	6,079.28	1,380.25	349.67	-84.87	2.34	-1.79	-77.21
6,549.00	1.19	287.23	6,268.25	1,380.91	346.77	-81.91	0.32	0.30	6.88
6,667.00	1.68	283.75	6,386.22	1,381.68	343.92	-78.96	0.42	0.42	-2.95
6,761.00	9.50	276.61	6,479.70	1,382.90	334.86	-69.84	8.34	8.32	-7.60
6,855.00	20.99	279.43	6,570.24	1,386.57	310.47	-45.18	12.25	12.22	3.00
6,949.00	24.79	271.54	6,656.84	1,389.86	274.14	-8.88	5.19	4.04	-8.39
7,043.00	31.82	269.43	6,739.55	1,390.14	229.60	34.92	7.55	7.48	-2.24
7,137.00	40.21	272.03	6,815.52	1,390.97	174.40	89.30	9.07	8.93	2.77
7,232.00	51.48	268.81	6,881.60	1,391.28	106.36	156.19	12.11	11.86	-3.39
7,325.00	60.41	268.15	6,933.63	1,389.22	29.42	231.38	9.62	9.60	-0.71
7,420.00	68.49	269.91	6,974.57	1,387.81	-56.20	315.22	8.67	8.51	1.85
7,513.00	82.59	268.55	6,997.74	1,386.57	-146.02	403.22	15.23	15.16	-1.46
7,593.16	88.47	268.77	7,003.98	1,384.71	-225.88	481.31	7.33	7.33	0.28
Hardline Crossing Point @ 7593.16'MD									
7,594.13	88.54	268.77	7,004.01	1,384.69	-226.85	482.26	7.33	7.33	0.28
LP Launer 3									
7,607.00	89.48	268.81	7,004.23	1,384.41	-239.71	494.85	7.33	7.33	0.28
7,701.00	89.22	268.24	7,005.30	1,381.99	-333.67	586.69	0.67	-0.28	-0.61
7,796.00	88.91	267.71	7,006.85	1,378.64	-428.60	679.31	0.65	-0.33	-0.56
7,889.00	88.60	266.92	7,008.87	1,374.28	-521.48	769.73	0.91	-0.33	-0.85
7,984.00	88.60	268.24	7,011.19	1,370.27	-616.36	862.18	1.39	0.00	1.39
8,078.00	89.88	271.24	7,012.44	1,369.85	-710.34	954.41	3.47	1.36	3.19
8,173.00	92.09	270.75	7,010.80	1,371.50	-805.31	1,048.01	2.38	2.33	-0.52
8,267.00	92.49	270.62	7,007.05	1,372.62	-899.22	1,140.47	0.45	0.43	-0.14
8,361.00	92.62	270.13	7,002.86	1,373.23	-993.13	1,232.83	0.54	0.14	-0.52
8,455.00	92.89	269.83	6,998.34	1,373.20	-1,087.02	1,325.05	0.43	0.29	-0.32
8,550.00	92.71	271.15	6,993.70	1,374.01	-1,181.90	1,418.40	1.40	-0.19	1.39
8,644.00	91.69	270.44	6,990.09	1,375.32	-1,275.82	1,510.90	1.32	-1.09	-0.76
8,739.00	90.28	271.02	6,988.46	1,376.53	-1,370.79	1,604.42	1.60	-1.48	0.61
8,834.00	89.79	271.02	6,988.40	1,378.22	-1,465.78	1,698.04	0.52	-0.52	0.00
8,928.00	92.40	270.62	6,986.60	1,379.56	-1,559.74	1,790.60	2.81	2.78	-0.43
9,023.00	93.11	270.31	6,982.04	1,380.33	-1,654.63	1,883.95	0.82	0.75	-0.33
9,118.00	92.89	269.91	6,977.06	1,380.51	-1,749.50	1,977.17	0.48	-0.23	-0.42

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Site:	Sec 26-T07N-R67W	MD Reference:	KB=25 @ 4953.00ft (Patterson 346)
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9,212.00	93.68	269.52	6,971.68	1,380.05	-1,843.34	2,069.26	0.94	0.84	-0.41
9,306.00	94.21	269.34	6,965.21	1,379.11	-1,937.12	2,161.20	0.60	0.56	-0.19
9,401.00	92.80	270.53	6,959.40	1,379.01	-2,031.93	2,254.32	1.94	-1.48	1.25
9,495.00	93.28	271.02	6,954.42	1,380.28	-2,125.79	2,346.75	0.73	0.51	0.52
9,589.00	92.00	271.32	6,950.09	1,382.20	-2,219.67	2,439.33	1.40	-1.36	0.32
9,684.00	92.62	271.24	6,946.26	1,384.32	-2,314.57	2,532.95	0.66	0.65	-0.08
9,778.00	93.68	271.41	6,941.09	1,386.49	-2,408.40	2,625.52	1.14	1.13	0.18
9,872.00	92.18	270.05	6,936.29	1,387.68	-2,502.27	2,717.95	2.15	-1.60	-1.45
9,967.00	92.62	270.53	6,932.31	1,388.16	-2,597.18	2,811.27	0.69	0.46	0.51
10,156.00	93.50	270.53	6,922.22	1,389.91	-2,785.90	2,996.98	0.47	0.47	0.00
10,249.00	94.08	270.62	6,916.07	1,390.84	-2,878.69	3,088.30	0.63	0.62	0.10
10,343.00	92.40	269.34	6,910.76	1,390.80	-2,972.54	3,180.48	2.25	-1.79	-1.36
10,438.00	93.20	269.03	6,906.12	1,389.46	-3,067.41	3,273.42	0.90	0.84	-0.33
10,532.00	91.21	270.31	6,902.50	1,388.91	-3,161.34	3,365.58	2.52	-2.12	1.36
10,627.00	90.99	269.74	6,900.68	1,388.96	-3,256.32	3,458.89	0.64	-0.23	-0.60
10,721.00	92.89	269.91	6,897.50	1,388.67	-3,350.26	3,551.11	2.03	2.02	0.18
10,815.00	92.71	269.43	6,892.91	1,388.13	-3,444.14	3,643.23	0.54	-0.19	-0.51
10,909.00	92.40	270.53	6,888.72	1,388.10	-3,538.05	3,735.47	1.21	-0.33	1.17
11,003.00	92.49	270.75	6,884.71	1,389.14	-3,631.96	3,827.91	0.25	0.10	0.23
11,098.00	90.41	271.63	6,882.30	1,391.12	-3,726.90	3,921.54	2.38	-2.19	0.93
11,192.00	90.19	270.53	6,881.81	1,392.89	-3,820.88	4,014.19	1.19	-0.23	-1.17
11,286.00	90.72	270.05	6,881.06	1,393.36	-3,914.88	4,106.61	0.76	0.56	-0.51
11,381.00	91.30	269.12	6,879.39	1,392.68	-4,009.86	4,199.78	1.15	0.61	-0.98
11,475.00	90.19	268.02	6,878.17	1,390.33	-4,103.82	4,291.64	1.66	-1.18	-1.17
11,569.00	91.30	270.44	6,876.94	1,389.07	-4,197.79	4,383.71	2.83	1.18	2.57
11,663.00	92.09	270.75	6,874.16	1,390.04	-4,291.75	4,476.18	0.90	0.84	0.33
11,758.00	90.19	271.63	6,872.27	1,392.02	-4,386.70	4,569.83	2.20	-2.00	0.93
11,852.00	88.29	269.83	6,873.52	1,393.21	-4,480.68	4,662.36	2.78	-2.02	-1.91
11,946.00	89.22	272.82	6,875.56	1,395.39	-4,574.62	4,755.05	3.33	0.99	3.18
12,041.00	90.01	273.62	6,876.20	1,400.72	-4,669.46	4,849.21	1.18	0.83	0.84
12,136.00	90.28	272.12	6,875.96	1,405.48	-4,764.34	4,943.30	1.60	0.28	-1.58
12,230.00	90.19	270.12	6,875.58	1,407.32	-4,858.32	5,035.96	2.13	-0.10	-2.13
12,290.28	89.73	269.48	6,875.62	1,407.11	-4,918.60	5,095.13	1.30	-0.76	-1.06
Section Line Crossing @ 12290.28'MD									
12,324.00	89.48	269.12	6,875.85	1,406.69	-4,952.31	5,128.17	1.30	-0.76	-1.06
12,418.00	88.20	269.52	6,877.75	1,405.58	-5,046.29	5,220.27	1.43	-1.36	0.43
12,512.00	88.82	269.43	6,880.19	1,404.72	-5,140.25	5,312.41	0.67	0.66	-0.10
12,606.00	88.91	269.21	6,882.06	1,403.60	-5,234.23	5,404.51	0.25	0.10	-0.23
12,701.00	90.19	269.65	6,882.80	1,402.66	-5,329.22	5,497.64	1.42	1.35	0.46
12,795.00	90.47	270.05	6,882.26	1,402.41	-5,423.21	5,589.93	0.52	0.30	0.43
12,889.00	88.51	271.32	6,883.10	1,403.53	-5,517.20	5,682.46	2.48	-2.09	1.35
12,984.00	88.69	271.41	6,885.42	1,405.80	-5,612.14	5,776.15	0.21	0.19	0.09
13,173.00	89.88	272.12	6,887.78	1,411.62	-5,801.03	5,962.78	0.73	0.63	0.38

Survey Report

Company:	Extraction Oil & Gas	Local Co-ordinate Reference:	Well Launer 3
Project:	Weld County, CO (NAD83)	TVD Reference:	KB=25 @ 4953.00ft (Patterson 346)
Site:	Sec 26-T07N-R67W	MD Reference:	KB=25 @ 4953.00ft (Patterson 346)
Well:	Launer 3	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	EDM 5000.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,267.00	90.01	272.82	6,887.87	1,415.67	-5,894.94	6,055.79	0.76	0.14	0.74
13,361.00	89.70	272.51	6,888.11	1,420.04	-5,988.84	6,148.85	0.47	-0.33	-0.33
13,456.00	90.01	273.13	6,888.35	1,424.71	-6,083.73	6,242.92	0.73	0.33	0.65
13,550.00	89.40	273.13	6,888.83	1,429.85	-6,177.58	6,336.08	0.65	-0.65	0.00
13,644.00	89.79	275.33	6,889.49	1,436.78	-6,271.32	6,429.46	2.38	0.41	2.34
13,833.00	88.29	268.42	6,892.66	1,442.96	-6,460.07	6,616.03	3.74	-0.79	-3.66
13,927.00	90.10	268.15	6,893.99	1,440.15	-6,554.02	6,707.78	1.95	1.93	-0.29
14,021.00	89.00	268.15	6,894.72	1,437.11	-6,647.96	6,799.49	1.17	-1.17	0.00
14,116.00	89.31	268.81	6,896.12	1,434.59	-6,742.92	6,892.30	0.77	0.33	0.69
14,210.00	90.28	269.21	6,896.46	1,432.97	-6,836.90	6,984.31	1.12	1.03	0.43
14,305.00	92.31	267.93	6,894.31	1,430.60	-6,931.84	7,077.13	2.53	2.14	-1.35
14,399.00	92.40	267.84	6,890.45	1,427.13	-7,025.70	7,168.67	0.14	0.10	-0.10
14,493.00	92.62	267.62	6,886.33	1,423.41	-7,119.53	7,260.15	0.33	0.23	-0.23
14,588.00	90.19	267.71	6,884.01	1,419.54	-7,214.42	7,352.63	2.56	-2.56	0.09
14,650.00	89.70	268.33	6,884.06	1,417.40	-7,276.38	7,413.09	1.27	-0.79	1.00
14,731.00	88.82	268.64	6,885.11	1,415.26	-7,357.35	7,492.22	1.15	-1.09	0.38
Final MWD Survey @ 14731'MD									
14,800.00	88.82	268.64	6,886.53	1,413.62	-7,426.31	7,559.66	0.00	0.00	0.00
Projection to TD @ 14800'MD - PBHL Launer 3									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,647.00	1,646.89	-3.12	1.06	First MWD Survey @ 1647'MD
7,593.16	7,003.98	1,384.71	-225.88	Hardline Crossing Point @ 7593.16'MD
12,290.28	6,875.62	1,407.11	-4,918.60	Section Line Crossing @ 12290.28'MD
14,731.00	6,885.11	1,415.26	-7,357.35	Final MWD Survey @ 14731'MD
14,800.00	6,886.53	1,413.62	-7,426.31	Projection to TD @ 14800'MD

Checked By: _____ Approved By: _____ Date: _____