

Callon Petroleum Operating Co.

Reagan County, TX (NAD27 TC)

University 27-34

#3LH

OH

Design: OH

Standard Survey Report

13 October, 2014



Survey Report

Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #3LH
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB=24' @ 2690.00usft
Site:	University 27-34	MD Reference:	KB=24' @ 2690.00usft
Well:	#3LH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Project	Reagan County, TX (NAD27 TC)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Texas Central 4203		

Site	University 27-34		
Site Position:		Northing:	586,934.99 usft
From:	Map	Easting:	1,569,586.59 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 16' 23.477 N
		Longitude:	101° 42' 39.920 W
		Grid Convergence:	-0.71 °

Well	#3LH		
Well Position	+N-S	0.00 usft	Northing: 586,933.81 usft
	+E-W	0.00 usft	Easting: 1,569,646.64 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	31° 16' 23.473 N
		Longitude:	101° 42' 39.228 W
		Ground Level:	2,666.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2014	7/30/2014	6.35
			Dip Angle (°) 59.51
			Field Strength (nT) 47,892

Design	OH		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)
	0.00	1.18	-60.05
			Direction (bearing) 5.64

Survey Program	Date 10/13/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
100.00	16,885.00	MWD#1 (OH)	SDI MWD
			Description SDI MWD - Standard ver 1.0.1

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	4.73	0.00	0.00	0.00	
100.00	0.96	240.97	100.00	-0.41	-0.73	4.25	0.96	0.96	0.00	
200.00	1.27	246.64	199.98	-1.25	-2.48	3.24	0.33	0.31	5.67	
300.00	1.25	274.11	299.95	-1.61	-4.59	2.67	0.60	-0.02	27.47	
400.00	0.77	287.81	399.94	-1.33	-6.32	2.79	0.53	-0.48	13.70	
500.00	1.03	279.22	499.92	-0.98	-7.84	2.98	0.29	0.26	-8.59	
600.00	0.93	264.54	599.91	-0.91	-9.54	2.88	0.27	-0.10	-14.68	
625.00	0.99	254.10	624.91	-0.99	-9.95	2.76	0.74	0.24	-41.76	
794.00	0.92	247.29	793.88	-1.92	-12.60	1.58	0.08	-0.04	-4.03	
978.00	1.06	148.24	977.87	-3.93	-13.07	-0.47	0.82	0.08	-53.83	

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,162.00	1.23	74.68	1,161.84	-4.86	-10.27	-1.12	0.75	0.09	-39.98
1,347.00	1.32	70.11	1,346.79	-3.61	-6.35	0.51	0.07	0.05	-2.47
1,533.00	1.41	64.83	1,532.74	-1.91	-2.26	2.61	0.08	0.05	-2.84
1,720.00	1.85	60.97	1,719.66	0.54	2.46	5.50	0.24	0.24	-2.06
1,908.00	1.41	48.93	1,907.59	3.53	6.85	8.91	0.30	-0.23	-6.40
2,097.00	1.58	53.32	2,096.52	6.61	10.70	12.36	0.11	0.09	2.32
2,285.00	2.11	59.56	2,284.43	9.91	15.76	16.15	0.30	0.28	3.32
2,472.00	1.41	59.30	2,471.34	12.83	20.71	19.54	0.37	-0.37	-0.14
2,659.00	2.02	54.29	2,658.25	15.93	25.36	23.08	0.34	0.33	-2.68
2,848.00	0.70	57.71	2,847.19	18.49	29.04	25.99	0.70	-0.70	1.81
3,036.00	0.97	72.66	3,035.17	19.58	31.53	27.31	0.18	0.14	7.95
3,223.00	1.14	66.33	3,222.14	20.80	34.75	28.84	0.11	0.09	-3.39
3,412.00	1.41	62.55	3,411.10	22.63	38.53	31.03	0.15	0.14	-2.00
3,600.00	1.23	69.67	3,599.05	24.39	42.48	33.18	0.13	-0.10	3.79
3,788.00	1.14	68.26	3,787.01	25.79	46.11	34.92	0.05	-0.05	-0.75
3,977.00	1.14	70.81	3,975.97	27.10	49.63	36.58	0.03	0.00	1.35
4,165.00	1.06	85.14	4,163.93	27.86	53.13	37.68	0.15	-0.04	7.62
4,353.00	0.97	82.32	4,351.90	28.22	56.44	38.36	0.05	-0.05	-1.50
4,541.00	0.79	68.88	4,539.88	28.90	59.22	39.31	0.15	-0.10	-7.15
4,729.00	0.62	68.70	4,727.87	29.74	61.38	40.36	0.09	-0.09	-0.10
4,917.00	0.62	86.19	4,915.86	30.18	63.34	40.99	0.10	0.00	9.30
5,105.00	0.62	77.75	5,103.85	30.46	65.35	41.47	0.05	0.00	-4.49
5,293.00	0.35	92.78	5,291.84	30.65	66.92	41.81	0.16	-0.14	7.99
5,481.00	0.62	99.46	5,479.83	30.45	68.49	41.77	0.15	0.14	3.55
5,669.00	0.35	143.14	5,667.83	29.83	69.84	41.28	0.23	-0.14	23.23
5,857.00	0.79	179.97	5,855.82	28.07	70.19	39.56	0.29	0.23	19.59
6,045.00	0.97	181.29	6,043.79	25.18	70.15	36.69	0.10	0.10	0.70
6,233.00	0.70	161.87	6,231.78	22.50	70.47	34.05	0.21	-0.14	-10.33
6,421.00	0.79	133.65	6,419.76	20.52	71.77	32.20	0.20	0.05	-15.01
6,609.00	0.88	121.35	6,607.74	18.87	73.94	30.78	0.11	0.05	-6.54
6,798.00	0.79	117.83	6,796.72	17.51	76.33	29.66	0.05	-0.05	-1.86
6,987.00	0.62	124.78	6,985.71	16.31	78.32	28.67	0.10	-0.09	3.68
7,175.00	0.79	117.13	7,173.69	15.14	80.31	27.70	0.10	0.09	-4.07
7,364.00	0.88	124.51	7,362.67	13.73	82.67	26.52	0.07	0.05	3.90
7,552.00	0.79	119.59	7,550.65	12.27	84.98	25.29	0.06	-0.05	-2.62
7,740.00	0.70	126.97	7,738.64	10.94	87.03	24.17	0.07	-0.05	3.93
7,750.00	0.70	112.91	7,748.63	10.88	87.13	24.12	1.71	0.00	-140.60
7,854.00	0.84	115.93	7,852.63	10.30	88.40	23.67	0.14	0.13	2.90
7,948.00	0.88	110.79	7,946.61	9.74	89.70	23.24	0.09	0.04	-5.47
7,979.00	0.40	122.53	7,977.61	9.60	90.01	23.13	1.60	-1.55	37.87
8,041.00	1.58	147.79	8,039.60	8.76	90.65	22.36	1.98	1.90	40.74
8,072.00	3.34	161.42	8,070.57	7.54	91.17	21.20	5.94	5.68	43.97
8,104.00	2.55	132.32	8,102.53	6.18	91.99	19.92	5.20	-2.47	-90.94
8,135.00	4.40	107.71	8,133.48	5.35	93.63	19.26	7.54	5.97	-79.39

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Survey

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8,166.00	6.24	96.99	8,164.34	4.78	96.44	18.97	6.72	5.94	-34.58
8,198.00	9.50	88.29	8,196.04	4.65	100.81	19.27	10.82	10.19	-27.19
8,229.00	12.66	83.90	8,226.46	5.09	106.74	20.29	10.54	10.19	-14.16
8,260.00	16.88	77.92	8,256.43	6.39	114.52	22.35	14.46	13.61	-19.29
8,292.00	20.49	72.91	8,286.74	9.01	124.43	25.93	12.34	11.28	-15.66
8,324.00	22.51	66.90	8,316.51	13.06	135.42	31.04	9.33	6.31	-18.78
8,355.00	24.82	56.12	8,344.92	19.02	146.28	38.04	15.79	7.45	-34.77
8,386.00	27.02	46.76	8,372.81	27.48	156.82	47.49	14.96	7.10	-30.19
8,417.00	29.90	42.50	8,400.06	38.00	167.17	58.98	11.36	9.29	-13.74
8,449.00	34.12	39.69	8,427.19	50.79	178.30	72.81	13.98	13.19	-8.78
8,480.00	38.25	37.67	8,452.21	65.09	189.72	88.15	13.87	13.32	-6.52
8,512.00	41.42	36.52	8,476.78	81.44	202.08	105.64	10.17	9.91	-3.59
8,544.00	44.02	35.30	8,500.29	99.02	214.80	124.39	8.53	8.13	-3.81
8,575.00	46.34	32.92	8,522.14	117.23	227.12	143.72	9.25	7.48	-7.68
8,606.00	48.80	31.25	8,543.05	136.62	239.27	164.21	8.88	7.94	-5.39
8,637.00	50.47	29.76	8,563.13	156.97	251.26	185.64	6.51	5.39	-4.81
8,669.00	52.58	28.79	8,583.04	178.82	263.50	208.59	7.01	6.59	-3.03
8,700.00	54.78	28.79	8,601.40	200.71	275.53	231.55	7.10	7.10	0.00
8,732.00	58.04	28.28	8,619.10	224.12	288.26	256.11	10.27	10.19	-1.59
8,763.00	62.26	27.29	8,634.53	247.91	300.79	281.01	13.89	13.61	-3.19
8,795.00	65.42	26.24	8,648.63	273.55	313.72	307.80	10.30	9.88	-3.28
8,826.00	67.88	25.36	8,660.92	299.17	326.10	334.51	8.35	7.94	-2.84
8,857.00	69.91	24.92	8,672.08	325.35	338.39	361.77	6.68	6.55	-1.42
8,888.00	71.67	25.10	8,682.28	351.88	350.76	389.39	5.70	5.68	0.58
8,920.00	72.81	25.19	8,692.04	379.47	363.71	418.12	3.57	3.56	0.28
8,951.00	74.57	25.10	8,700.75	406.40	376.35	446.16	5.68	5.68	-0.29
8,983.00	76.41	24.75	8,708.76	434.49	389.41	475.40	5.85	5.75	-1.09
9,014.00	77.82	23.95	8,715.68	462.02	401.87	504.02	5.20	4.55	-2.58
9,045.00	79.58	23.78	8,721.75	489.82	414.16	532.90	5.70	5.68	-0.55
9,076.00	80.20	24.13	8,727.19	517.71	426.56	561.87	2.29	2.00	1.13
9,107.00	81.69	24.31	8,732.07	545.63	439.11	590.89	4.84	4.81	0.58
9,139.00	83.98	24.57	8,736.06	574.53	452.25	620.94	7.20	7.16	0.81
9,170.00	85.91	24.57	8,738.79	602.61	465.09	650.15	6.23	6.23	0.00
9,263.00	93.03	25.62	8,739.65	686.78	504.50	737.78	7.74	7.66	1.13
9,325.00	91.10	23.08	8,737.42	743.22	530.05	796.46	5.14	-3.11	-4.10
9,356.00	89.96	22.28	8,737.13	771.82	542.00	826.10	4.49	-3.68	-2.58
9,417.00	92.77	18.77	8,735.68	828.92	563.38	885.02	7.37	4.61	-5.75
9,451.00	92.95	16.66	8,733.98	861.26	573.71	918.22	6.22	0.53	-6.21
9,544.00	90.66	11.65	8,731.05	951.36	596.43	1,010.12	5.92	-2.46	-5.39
9,638.00	87.76	5.15	8,732.35	1,044.28	610.15	1,103.94	7.57	-3.09	-6.91
9,732.00	87.67	358.55	8,736.10	1,138.11	613.18	1,197.61	7.02	-0.10	-7.02
9,826.00	91.19	0.93	8,737.04	1,232.08	612.76	1,291.08	4.52	3.74	2.53
9,921.00	91.19	0.84	8,735.06	1,327.05	614.22	1,385.73	0.09	0.00	-0.09

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10,015.00	92.51	1.75	8,732.03	1,420.97	616.35	1,479.41	1.71	1.40	0.97
10,039.00	91.63	0.49	8,731.16	1,444.95	616.82	1,503.32	6.40	-3.67	-5.25
10,131.00	87.93	0.40	8,731.51	1,536.93	617.53	1,594.93	4.02	-4.02	-0.10
10,223.00	86.44	0.05	8,736.03	1,628.82	617.89	1,686.40	1.66	-1.62	-0.38
10,315.00	89.78	2.51	8,739.07	1,720.72	619.95	1,778.07	4.51	3.63	2.67
10,407.00	89.08	1.89	8,739.98	1,812.65	623.48	1,869.89	1.02	-0.76	-0.67
10,499.00	91.89	5.15	8,739.20	1,904.45	629.13	1,961.81	4.68	3.05	3.54
10,592.00	90.22	4.53	8,737.49	1,997.10	636.97	2,054.78	1.92	-1.80	-0.67
10,684.00	89.69	4.53	8,737.56	2,088.81	644.24	2,146.76	0.58	-0.58	0.00
10,776.00	91.89	5.23	8,736.29	2,180.46	652.06	2,238.74	2.51	2.39	0.76
10,868.00	90.57	4.88	8,734.32	2,272.08	660.17	2,330.71	1.48	-1.43	-0.38
10,961.00	90.31	3.39	8,733.61	2,364.83	666.87	2,423.67	1.63	-0.28	-1.60
11,053.00	89.16	4.44	8,734.03	2,456.62	673.15	2,515.62	1.69	-1.25	1.14
11,147.00	90.13	1.89	8,734.61	2,550.46	678.34	2,609.53	2.90	1.03	-2.71
11,241.00	90.40	2.69	8,734.18	2,644.38	682.10	2,703.36	0.90	0.29	0.85
11,335.00	89.52	359.70	8,734.24	2,738.35	684.06	2,797.07	3.32	-0.94	-3.18
11,430.00	90.04	2.69	8,734.61	2,833.32	686.04	2,891.77	3.19	0.55	3.15
11,523.00	89.25	357.32	8,735.19	2,926.28	686.05	2,984.29	5.84	-0.85	-5.77
11,618.00	91.54	359.43	8,734.53	3,021.23	683.35	3,078.51	3.28	2.41	2.22
11,712.00	90.84	0.49	8,732.58	3,115.21	683.29	3,172.02	1.35	-0.74	1.13
11,805.00	89.96	2.07	8,731.93	3,208.18	685.36	3,264.75	1.94	-0.95	1.70
11,899.00	88.72	0.31	8,733.01	3,302.15	687.32	3,358.45	2.29	-1.32	-1.87
11,993.00	88.02	0.40	8,735.69	3,396.11	687.90	3,452.02	0.75	-0.74	0.10
12,087.00	85.74	359.78	8,740.80	3,489.96	688.05	3,545.43	2.51	-2.43	-0.66
12,181.00	89.52	359.26	8,744.69	3,583.86	687.26	3,638.80	4.06	4.02	-0.55
12,276.00	90.13	0.05	8,744.98	3,678.86	686.69	3,733.28	1.05	0.64	0.83
12,370.00	88.54	358.64	8,746.07	3,772.84	685.61	3,826.70	2.26	-1.69	-1.50
12,464.00	89.96	359.17	8,747.30	3,866.81	683.82	3,920.04	1.61	1.51	0.56
12,559.00	88.90	358.82	8,748.24	3,961.79	682.15	4,014.39	1.18	-1.12	-0.37
12,653.00	88.02	358.91	8,750.77	4,055.74	680.29	4,107.70	0.94	-0.94	0.10
12,747.00	92.07	1.54	8,750.70	4,149.71	680.66	4,201.25	5.14	4.31	2.80
12,841.00	92.24	1.19	8,747.16	4,243.62	682.90	4,294.92	0.41	0.18	-0.37
12,935.00	91.19	0.22	8,744.35	4,337.56	684.05	4,388.53	1.52	-1.12	-1.03
13,030.00	87.85	0.14	8,745.15	4,432.55	684.35	4,483.08	3.52	-3.52	-0.08
13,124.00	90.22	1.28	8,746.73	4,526.52	685.52	4,576.71	2.80	2.52	1.21
13,218.00	88.72	1.45	8,747.60	4,620.48	687.75	4,670.45	1.61	-1.60	0.18
13,312.00	87.67	1.89	8,750.56	4,714.40	690.49	4,764.17	1.21	-1.12	0.47
13,407.00	87.05	1.02	8,754.93	4,809.26	692.90	4,858.82	1.12	-0.65	-0.92
13,501.00	90.04	1.63	8,757.32	4,903.20	695.08	4,952.51	3.25	3.18	0.65
13,595.00	89.69	0.22	8,757.54	4,997.18	696.59	5,046.19	1.55	-0.37	-1.50
13,689.00	90.04	0.05	8,757.76	5,091.18	696.81	5,139.75	0.41	0.37	-0.18
13,783.00	89.69	359.70	8,757.99	5,185.18	696.61	5,233.28	0.53	-0.37	-0.37
13,877.00	90.92	1.02	8,757.48	5,279.17	697.20	5,326.87	1.92	1.31	1.40

Survey Report

Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #3LH
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB=24' @ 2690.00usft
Site:	University 27-34	MD Reference:	KB=24' @ 2690.00usft
Well:	#3LH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (bearing)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,972.00	91.71	359.61	8,755.30	5,374.14	697.72	5,421.43	1.70	0.83	-1.48
14,066.00	92.95	358.82	8,751.48	5,468.05	696.44	5,514.76	1.56	1.32	-0.84
14,160.00	93.12	358.91	8,746.51	5,561.90	694.58	5,607.98	0.20	0.18	0.10
14,255.00	91.63	358.47	8,742.57	5,656.79	692.41	5,702.19	1.64	-1.57	-0.46
14,349.00	90.40	358.91	8,740.90	5,750.75	690.26	5,795.49	1.39	-1.31	0.47
14,443.00	91.10	359.61	8,739.67	5,844.74	689.04	5,888.89	1.05	0.74	0.74
14,537.00	89.87	0.49	8,738.88	5,938.73	689.13	5,982.44	1.61	-1.31	0.94
14,632.00	88.20	0.93	8,740.48	6,033.71	690.30	6,077.07	1.82	-1.76	0.46
14,726.00	89.25	1.19	8,742.57	6,127.67	692.04	6,170.75	1.15	1.12	0.28
14,820.00	89.78	0.49	8,743.37	6,221.65	693.42	6,264.41	0.93	0.56	-0.74
14,914.00	90.04	0.58	8,743.51	6,315.65	694.30	6,358.04	0.29	0.28	0.10
15,008.00	89.34	359.78	8,744.02	6,409.64	694.59	6,451.61	1.13	-0.74	-0.85
15,102.00	89.87	359.52	8,744.67	6,503.64	694.02	6,545.09	0.63	0.56	-0.28
15,196.00	89.69	1.72	8,745.03	6,597.63	695.04	6,638.73	2.35	-0.19	2.34
15,290.00	89.52	1.81	8,745.68	6,691.58	697.93	6,732.51	0.20	-0.18	0.10
15,384.00	89.60	0.75	8,746.40	6,785.55	700.03	6,826.23	1.13	0.09	-1.13
15,478.00	89.43	0.31	8,747.20	6,879.54	700.90	6,919.85	0.50	-0.18	-0.47
15,573.00	90.13	0.66	8,747.56	6,974.54	701.70	7,014.47	0.82	0.74	0.37
15,666.00	91.06	1.72	8,746.60	7,067.51	703.63	7,107.18	1.52	1.00	1.14
15,760.00	92.59	1.37	8,743.60	7,161.43	706.17	7,200.89	1.67	1.63	-0.37
15,854.00	87.93	0.49	8,743.18	7,255.39	707.69	7,294.54	5.05	-4.96	-0.94
15,948.00	90.04	2.69	8,744.84	7,349.33	710.30	7,388.28	3.24	2.24	2.34
16,042.00	91.28	2.60	8,743.76	7,443.22	714.64	7,482.15	1.32	1.32	-0.10
16,135.00	90.04	3.12	8,742.69	7,536.09	719.28	7,575.03	1.45	-1.33	0.56
16,230.00	86.70	3.83	8,745.39	7,630.87	725.03	7,669.91	3.59	-3.52	0.75
16,324.00	88.90	3.83	8,749.00	7,724.58	731.31	7,763.79	2.34	2.34	0.00
16,419.00	89.43	3.83	8,750.38	7,819.36	737.65	7,858.73	0.56	0.56	0.00
16,513.00	88.72	3.30	8,751.90	7,913.16	743.50	7,952.65	0.94	-0.76	-0.56
16,608.00	88.81	3.39	8,753.95	8,007.98	749.04	8,047.56	0.13	0.09	0.09
16,702.00	88.46	2.42	8,756.19	8,101.83	753.80	8,141.42	1.10	-0.37	-1.03
16,796.00	87.23	1.10	8,759.72	8,195.72	756.69	8,235.13	1.92	-1.31	-1.40
16,838.00	87.23	1.02	8,761.75	8,237.66	757.46	8,276.95	0.19	0.00	-0.19
Final MWD Survey									
16,885.00	87.23	1.02	8,764.02	8,284.60	758.30	8,323.74	0.00	0.00	0.00
Final Projection to Bit									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
16,838.00	8,761.75	8,237.66	757.46	Final MWD Survey
16,885.00	8,764.02	8,284.60	758.30	Final Projection to Bit

Survey Report

Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #3LH
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB=24' @ 2690.00usft
Site:	University 27-34	MD Reference:	KB=24' @ 2690.00usft
Well:	#3LH	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	Midland District

Checked By: _____ Approved By: _____ Date: _____