



Callon Petroleum Operating Co.

Reagan County, TX (NAD27 TC)

University 26-35

#8H

OH

Design: OH

Standard Survey Report

13 May, 2014





Survey Report



Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #8H
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Site:	University 26-35	MD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Well:	#8H	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 26-35		
Site Position:		Northing:	586,756.88 usft
From:	Map	Easting:	1,576,946.40 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	31° 16' 22.609 N
		Longitude:	101° 41' 15.092 W
		Grid Convergence:	-0.70 °

Well	#8H		
Well Position	+N/-S	0.00 usft	Northing: 587,059.35 usft
	+E/-W	0.00 usft	Easting: 1,574,977.65 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	31° 16' 25.365 N
		Longitude:	101° 41' 37.819 W
		Ground Level:	2,639.58 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	BGGM2012	3/19/2014	6.37
			Dip Angle (°) 59.48
			Field Strength (nT) 47,919

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	0.00	0.00
			Direction (bearing) 5.38

Survey Program	Date	5/13/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
109.30	7,652.00	SDI Gyro (OH)	Keeper	Keeper Standard Rate Gyro
7,777.00	16,530.00	SDI MWD #1 (OH)	SDI MWD	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	0.00	0.00	0.00	0.00
109.30	0.82	238.02	109.30	-0.41	-0.66	-0.47	0.75	0.75	0.00
201.64	1.12	251.02	201.62	-1.06	-2.08	-1.25	0.40	0.32	14.08
287.82	0.74	254.08	287.79	-1.48	-3.41	-1.80	0.44	-0.44	3.55
384.21	1.06	199.74	384.17	-2.49	-4.31	-2.89	0.90	0.33	-56.38
477.00	1.04	199.24	476.95	-4.10	-4.88	-4.54	0.02	-0.02	-0.54
572.80	1.14	197.42	572.73	-5.83	-5.45	-6.31	0.11	0.10	-1.90
665.02	1.11	198.67	664.93	-7.55	-6.01	-8.08	0.04	-0.03	1.36
757.22	1.14	200.87	757.11	-9.25	-6.62	-9.83	0.06	0.03	2.39
851.40	1.11	205.22	851.27	-10.95	-7.34	-11.59	0.10	-0.03	4.62



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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)
945.56	1.20	209.71	945.42	-12.63	-8.22	-13.35	0.14	0.10	4.77
1,040.06	1.41	213.16	1,039.89	-14.47	-9.35	-15.28	0.24	0.22	3.65
1,134.11	1.69	217.03	1,133.91	-16.54	-10.82	-17.48	0.32	0.30	4.11
1,228.94	1.77	218.03	1,228.69	-18.81	-12.56	-19.91	0.09	0.08	1.05
1,354.75	2.35	222.45	1,354.42	-22.25	-15.50	-23.60	0.48	0.46	3.51
1,417.55	3.01	225.83	1,417.15	-24.35	-17.55	-25.88	1.08	1.05	5.38
1,511.73	2.85	229.24	1,511.21	-27.60	-21.10	-29.45	0.25	-0.17	3.62
1,605.41	2.52	225.86	1,604.79	-30.55	-24.34	-32.70	0.39	-0.35	-3.61
1,700.16	2.72	225.39	1,699.44	-33.58	-27.43	-36.00	0.21	0.21	-0.50
1,794.36	2.35	223.82	1,793.54	-36.54	-30.36	-39.23	0.40	-0.39	-1.67
1,888.80	2.31	224.29	1,887.91	-39.30	-33.03	-42.23	0.05	-0.04	0.50
1,983.05	2.24	224.12	1,982.08	-41.99	-35.64	-45.14	0.07	-0.07	-0.18
2,077.17	2.18	227.02	2,076.13	-44.53	-38.23	-47.91	0.13	-0.06	3.08
2,171.45	1.94	229.29	2,170.35	-46.79	-40.75	-50.40	0.27	-0.25	2.41
2,265.22	1.65	233.30	2,264.08	-48.63	-43.04	-52.45	0.34	-0.31	4.28
2,359.62	1.65	237.38	2,358.44	-50.18	-45.27	-54.20	0.12	0.00	4.32
2,453.85	1.83	246.51	2,452.62	-51.51	-47.79	-55.76	0.35	0.19	9.69
2,548.26	1.96	251.83	2,546.98	-52.61	-50.71	-57.13	0.23	0.14	5.63
2,641.76	2.28	256.61	2,640.42	-53.54	-54.04	-58.37	0.39	0.34	5.11
2,735.32	2.13	257.98	2,733.91	-54.33	-57.55	-59.49	0.17	-0.16	1.46
2,829.48	2.10	258.92	2,828.00	-55.03	-60.96	-60.50	0.05	-0.03	1.00
2,923.46	2.23	259.82	2,921.92	-55.68	-64.44	-61.48	0.14	0.14	0.96
3,017.67	2.09	261.24	3,016.06	-56.27	-67.95	-62.39	0.16	-0.15	1.51
3,111.27	1.89	259.83	3,109.60	-56.80	-71.15	-63.22	0.22	-0.21	-1.51
3,204.87	1.50	259.64	3,203.16	-57.30	-73.88	-63.97	0.42	-0.42	-0.20
3,298.55	1.14	263.60	3,296.82	-57.62	-76.01	-64.49	0.40	-0.38	4.23
3,392.70	0.75	259.52	3,390.95	-57.84	-77.55	-64.85	0.42	-0.41	-4.33
3,486.55	0.66	271.30	3,484.80	-57.94	-78.69	-65.05	0.18	-0.10	12.55
3,580.49	0.63	272.31	3,578.73	-57.90	-79.75	-65.12	0.03	-0.03	1.08
3,674.43	0.46	254.70	3,672.67	-57.98	-80.63	-65.28	0.25	-0.18	-18.75
3,768.47	0.35	254.28	3,766.70	-58.16	-81.27	-65.52	0.12	-0.12	-0.45
3,862.36	0.35	279.26	3,860.59	-58.19	-81.83	-65.60	0.16	0.00	26.61
3,955.91	0.63	283.94	3,954.14	-58.02	-82.61	-65.51	0.30	0.30	5.00
4,049.64	0.59	278.14	4,047.86	-57.83	-83.59	-65.41	0.08	-0.04	-6.19
4,144.42	0.60	285.83	4,142.64	-57.62	-84.55	-65.29	0.08	0.01	8.11
4,238.14	0.26	283.37	4,236.36	-57.44	-85.23	-65.17	0.36	-0.36	-2.62
4,331.86	0.45	267.15	4,330.07	-57.41	-85.80	-65.20	0.23	0.20	-17.31
4,426.42	0.30	259.11	4,424.63	-57.47	-86.41	-65.32	0.17	-0.16	-8.50
4,520.98	0.26	249.23	4,519.19	-57.60	-86.86	-65.48	0.07	-0.04	-10.45
4,615.38	0.24	225.39	4,613.59	-57.81	-87.20	-65.73	0.11	-0.02	-25.25
4,709.48	0.28	209.35	4,707.69	-58.15	-87.45	-66.09	0.09	0.04	-17.05
4,803.23	0.24	198.51	4,801.44	-58.54	-87.63	-66.49	0.07	-0.04	-11.56
4,897.62	0.27	189.82	4,895.83	-58.94	-87.73	-66.91	0.05	0.03	-9.21



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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)
4,991.62	0.30	168.70	4,989.83	-59.40	-87.72	-67.36	0.12	0.03	-22.47
5,085.23	0.40	177.80	5,083.43	-59.97	-87.66	-67.92	0.12	0.11	9.72
5,179.25	0.56	176.00	5,177.45	-60.76	-87.61	-68.70	0.17	0.17	-1.91
5,273.39	0.64	173.16	5,271.59	-61.74	-87.52	-69.67	0.09	0.08	-3.02
5,368.37	0.65	179.01	5,366.56	-62.80	-87.44	-70.72	0.07	0.01	6.16
5,462.12	0.65	178.29	5,460.30	-63.87	-87.42	-71.78	0.01	0.00	-0.77
5,555.87	0.77	193.26	5,554.05	-65.01	-87.55	-72.93	0.23	0.13	15.97
5,649.99	0.96	207.58	5,648.16	-66.32	-88.06	-74.29	0.30	0.20	15.21
5,745.02	1.75	221.25	5,743.16	-68.12	-89.38	-76.20	0.89	0.83	14.38
5,838.86	1.23	208.69	5,836.97	-70.08	-90.81	-78.28	0.65	-0.55	-13.38
5,932.77	0.96	203.09	5,930.86	-71.69	-91.60	-79.96	0.31	-0.29	-5.96
6,027.32	0.70	202.42	6,025.40	-72.95	-92.13	-81.27	0.28	-0.27	-0.71
6,121.78	0.56	195.56	6,119.85	-73.93	-92.48	-82.27	0.17	-0.15	-7.26
6,216.20	0.50	177.89	6,214.27	-74.79	-92.59	-83.13	0.18	-0.06	-18.71
6,310.55	0.45	175.86	6,308.62	-75.57	-92.54	-83.91	0.06	-0.05	-2.15
6,404.90	0.39	167.47	6,402.97	-76.25	-92.45	-84.58	0.09	-0.06	-8.89
6,497.64	0.47	166.77	6,495.70	-76.93	-92.29	-85.24	0.09	0.09	-0.75
6,592.46	0.41	160.16	6,590.52	-77.63	-92.09	-85.92	0.08	-0.06	-6.97
6,686.56	0.38	162.98	6,684.62	-78.24	-91.88	-86.51	0.04	-0.03	3.00
6,780.76	0.32	164.62	6,778.82	-78.79	-91.72	-87.04	0.06	-0.06	1.74
6,874.24	0.33	171.73	6,872.29	-79.31	-91.61	-87.55	0.04	0.01	7.61
6,967.72	0.23	174.85	6,965.77	-79.77	-91.56	-87.99	0.11	-0.11	3.34
7,061.32	0.30	181.43	7,059.37	-80.20	-91.55	-88.42	0.08	0.07	7.03
7,155.60	0.37	164.63	7,153.65	-80.74	-91.47	-88.95	0.13	0.07	-17.82
7,249.77	0.43	165.02	7,247.82	-81.37	-91.30	-89.57	0.06	0.06	0.41
7,343.78	0.38	158.12	7,341.83	-82.00	-91.09	-90.18	0.07	-0.05	-7.34
7,437.99	0.31	172.23	7,436.03	-82.55	-90.94	-90.70	0.12	-0.07	14.98
7,531.27	0.24	164.10	7,529.31	-82.98	-90.86	-91.13	0.09	-0.08	-8.72
7,624.91	0.29	162.47	7,622.95	-83.40	-90.73	-91.53	0.05	0.05	-1.74
7,652.00	0.34	165.32	7,650.04	-83.54	-90.69	-91.67	0.19	0.18	10.52
7,777.00	0.53	100.97	7,775.04	-84.01	-90.03	-92.08	0.39	0.15	-51.48
7,839.00	2.55	71.62	7,837.01	-83.63	-88.44	-91.55	3.39	3.26	-47.34
7,870.00	7.12	65.03	7,867.90	-82.60	-86.04	-90.30	14.83	14.74	-21.26
7,901.00	11.17	62.48	7,898.49	-80.40	-81.63	-87.70	13.13	13.06	-8.23
7,932.00	14.86	61.86	7,928.69	-77.14	-75.46	-83.87	11.91	11.90	-2.00
7,964.00	18.64	64.24	7,959.33	-72.98	-67.24	-78.96	12.00	11.81	7.44
7,995.00	21.46	65.38	7,988.45	-68.46	-57.62	-73.56	9.18	9.10	3.68
8,026.00	23.57	65.38	8,017.08	-63.52	-46.83	-67.63	6.81	6.81	0.00
8,057.00	25.85	63.27	8,045.24	-57.89	-35.15	-60.93	7.88	7.35	-6.81
8,089.00	29.15	63.95	8,073.63	-51.33	-21.92	-53.16	10.36	10.31	2.13
8,120.00	32.18	64.68	8,100.29	-44.48	-7.67	-45.01	9.85	9.77	2.35
8,152.00	35.52	63.73	8,126.86	-36.72	8.37	-35.78	10.57	10.44	-2.97
8,183.00	39.22	63.01	8,151.49	-28.29	25.19	-25.80	12.02	11.94	-2.32



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8,214.00	42.82	62.83	8,174.88	-19.02	43.30	-14.88	11.62	11.61	-0.58	
8,245.00	47.25	61.76	8,196.78	-8.82	62.71	-2.91	14.50	14.29	-3.45	
8,277.00	51.18	61.60	8,217.68	2.67	84.03	10.53	12.29	12.28	-0.50	
8,308.00	55.66	61.16	8,236.15	14.59	105.88	24.45	14.50	14.45	-1.42	
8,340.00	60.24	60.80	8,253.12	27.75	129.59	39.77	14.34	14.31	-1.13	
8,371.00	64.85	60.30	8,267.41	41.27	153.54	55.48	14.94	14.87	-1.61	
8,403.00	69.20	58.61	8,279.90	56.25	178.90	72.76	14.44	13.59	-5.28	
8,434.00	72.90	54.57	8,289.97	72.39	203.36	91.13	17.16	11.94	-13.03	
8,465.00	76.15	50.61	8,298.24	90.54	227.07	111.43	16.17	10.48	-12.77	
8,496.00	78.44	47.27	8,305.06	110.41	249.87	133.34	12.85	7.39	-10.77	
8,527.00	80.37	43.49	8,310.76	131.81	271.55	156.67	13.51	6.23	-12.19	
8,558.00	82.83	39.98	8,315.29	154.69	291.96	181.37	13.73	7.94	-11.32	
8,589.00	84.15	38.04	8,318.81	178.62	311.34	207.01	7.54	4.26	-6.26	
8,621.00	85.47	35.94	8,321.70	204.07	330.52	234.15	7.73	4.13	-6.56	
8,652.00	86.44	33.91	8,323.89	229.43	348.22	261.05	7.24	3.13	-6.55	
8,683.00	87.32	32.33	8,325.58	255.35	365.13	288.44	5.83	2.84	-5.10	
8,715.00	88.29	29.70	8,326.80	282.75	381.61	317.27	8.75	3.03	-8.22	
8,817.00	86.79	28.11	8,331.18	371.96	430.86	410.70	2.14	-1.47	-1.56	
8,909.00	85.74	27.94	8,337.18	453.00	473.99	495.42	1.16	-1.14	-0.18	
9,001.00	84.94	28.03	8,344.65	533.97	517.02	580.07	0.88	-0.87	0.10	
9,093.00	87.49	24.69	8,350.72	616.21	557.77	665.76	4.56	2.77	-3.63	
9,104.40	87.63	24.16	8,351.21	626.58	562.48	676.53	4.85	1.24	-4.69	
POP per Callon (#8H)										
9,185.00	88.64	20.38	8,353.83	701.11	593.00	753.60	4.85	1.25	-4.68	
9,278.00	91.54	15.72	8,353.69	789.50	621.80	844.30	5.90	3.12	-5.01	
9,370.00	87.67	6.40	8,354.32	879.67	639.43	935.72	10.97	-4.21	-10.13	
9,462.00	84.68	3.15	8,360.46	971.13	647.07	1,027.49	4.79	-3.25	-3.53	
9,554.00	83.98	2.71	8,369.55	1,062.56	651.75	1,118.96	0.90	-0.76	-0.48	
9,594.09	84.40	2.64	8,373.61	1,102.40	653.61	1,158.80	1.06	1.04	-0.18	
TGT #1 (#8H)										
9,646.00	84.94	2.54	8,378.43	1,154.03	655.95	1,210.42	1.06	1.04	-0.18	
9,740.00	86.61	2.71	8,385.36	1,247.67	660.24	1,304.05	1.79	1.78	0.18	
9,834.00	86.26	0.78	8,391.20	1,341.44	663.10	1,397.68	2.08	-0.37	-2.05	
9,929.00	87.49	359.28	8,396.38	1,436.30	663.15	1,492.12	2.04	1.29	-1.58	
10,023.00	88.72	358.14	8,399.49	1,530.22	661.03	1,585.43	1.78	1.31	-1.21	
10,117.00	89.69	0.78	8,400.79	1,624.19	660.15	1,678.91	2.99	1.03	2.81	
10,211.00	91.80	2.19	8,399.57	1,718.15	662.58	1,772.68	2.70	2.24	1.50	
10,305.00	90.40	0.25	8,397.77	1,812.10	664.58	1,866.41	2.54	-1.49	-2.06	
10,399.00	90.31	1.13	8,397.18	1,906.09	665.71	1,960.09	0.94	-0.10	0.94	
10,493.00	89.34	1.39	8,397.47	2,000.07	667.78	2,053.85	1.07	-1.03	0.28	
10,587.00	89.87	0.16	8,398.12	2,094.06	669.05	2,147.54	1.42	0.56	-1.31	
10,681.00	88.55	359.46	8,399.41	2,188.04	668.74	2,241.08	1.59	-1.40	-0.74	
10,774.00	88.02	359.64	8,402.20	2,281.00	668.01	2,333.56	0.60	-0.57	0.19	
10,869.00	86.61	359.37	8,406.65	2,375.89	667.19	2,427.96	1.51	-1.48	-0.28	



Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #8H
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Site:	University 26-35	MD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Well:	#8H	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)
10,963.00	88.72	0.43	8,410.48	2,469.80	667.03	2,521.44	2.51	2.24	1.13
11,057.00	88.20	359.90	8,413.00	2,563.77	667.30	2,615.02	0.79	-0.55	-0.56
11,150.00	89.16	0.78	8,415.15	2,656.74	667.85	2,707.63	1.40	1.03	0.95
11,244.00	91.28	3.06	8,414.79	2,750.67	671.00	2,801.45	3.31	2.26	2.43
11,338.00	90.22	3.06	8,413.56	2,844.53	676.02	2,895.36	1.13	-1.13	0.00
11,432.00	88.64	1.57	8,414.49	2,938.44	679.81	2,989.22	2.31	-1.68	-1.59
11,526.00	89.43	0.60	8,416.07	3,032.41	681.59	3,082.94	1.33	0.84	-1.03
11,619.00	90.31	0.52	8,416.28	3,125.41	682.50	3,175.61	0.95	0.95	-0.09
11,713.00	91.98	2.01	8,414.41	3,219.36	684.58	3,269.35	2.38	1.78	1.59
11,740.35	91.93	2.22	8,413.47	3,246.68	685.58	3,296.64	0.78	-0.19	0.75
TGT #2 (#8H)									
11,806.00	91.80	2.71	8,411.34	3,312.23	688.40	3,362.16	0.78	-0.19	0.75
11,900.00	88.72	359.02	8,410.91	3,406.19	689.82	3,455.85	5.11	-3.28	-3.93
11,994.00	89.25	359.37	8,412.58	3,500.17	688.50	3,549.28	0.68	0.56	0.37
12,089.00	89.52	359.28	8,413.60	3,595.15	687.38	3,643.75	0.30	0.28	-0.09
12,183.00	89.52	359.64	8,414.38	3,689.15	686.50	3,737.24	0.38	0.00	0.38
12,277.00	89.16	359.81	8,415.47	3,783.14	686.04	3,830.78	0.42	-0.38	0.18
12,371.00	89.96	359.55	8,416.19	3,877.13	685.52	3,924.31	0.89	0.85	-0.28
12,465.00	88.81	359.02	8,417.20	3,971.12	684.35	4,017.77	1.35	-1.22	-0.56
12,559.00	88.99	358.93	8,419.00	4,065.09	682.67	4,111.17	0.21	0.19	-0.10
12,653.00	88.46	358.76	8,421.09	4,159.04	680.77	4,204.54	0.59	-0.56	-0.18
12,748.00	88.46	359.46	8,423.65	4,254.00	679.30	4,298.93	0.74	0.00	0.74
12,842.00	89.08	359.28	8,425.67	4,347.97	678.26	4,392.40	0.69	0.66	-0.19
12,936.00	89.60	359.90	8,426.75	4,441.96	677.59	4,485.91	0.86	0.55	0.66
13,030.00	88.81	0.16	8,428.05	4,535.95	677.64	4,579.49	0.88	-0.84	0.28
13,124.00	89.25	359.90	8,429.64	4,629.94	677.69	4,673.07	0.54	0.47	-0.28
13,218.00	87.05	358.49	8,432.68	4,723.87	676.37	4,766.47	2.78	-2.34	-1.50
13,313.00	88.64	0.60	8,436.25	4,818.79	675.62	4,860.90	2.78	1.67	2.22
13,407.00	89.69	0.52	8,437.62	4,912.77	676.54	4,954.56	1.12	1.12	-0.09
13,501.00	88.29	358.67	8,439.28	5,006.75	675.87	5,048.06	2.47	-1.49	-1.97
13,595.00	89.60	359.99	8,441.01	5,100.73	674.77	5,141.51	1.98	1.39	1.40
13,690.00	91.63	1.04	8,439.99	5,195.71	675.63	5,236.16	2.41	2.14	1.11
13,785.00	91.63	0.52	8,437.29	5,290.66	676.92	5,330.82	0.55	0.00	-0.55
13,880.00	91.71	0.69	8,434.52	5,385.62	677.92	5,425.45	0.20	0.08	0.18
13,974.00	91.36	0.69	8,432.00	5,479.58	679.05	5,519.10	0.37	-0.37	0.00
14,068.00	91.54	0.52	8,429.62	5,573.54	680.05	5,612.74	0.26	0.19	-0.18
14,163.00	91.98	0.95	8,426.70	5,668.49	681.26	5,707.38	0.65	0.46	0.45
14,258.00	90.92	1.22	8,424.30	5,763.44	683.06	5,802.09	1.15	-1.12	0.28
14,352.00	91.89	359.55	8,421.99	5,857.40	683.69	5,895.70	2.05	1.03	-1.78
14,447.00	91.45	357.61	8,419.23	5,952.33	681.34	5,989.98	2.09	-0.46	-2.04
14,487.37	89.79	357.76	8,418.79	5,992.66	679.71	6,029.99	4.13	-4.12	0.38
TGT #3 (#8H)									
14,541.00	87.58	357.97	8,420.02	6,046.24	677.72	6,083.14	4.13	-4.12	0.38
14,635.00	89.16	358.04	8,422.69	6,140.14	674.45	6,176.32	1.68	1.68	0.07



Company:	Callon Petroleum Operating Co.	Local Co-ordinate Reference:	Well #8H
Project:	Reagan County, TX (NAD27 TC)	TVD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Site:	University 26-35	MD Reference:	KB= 24' @ 2663.58usft (Cactus #162)
Well:	#8H	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)
14,729.00	89.25	357.09	8,424.00	6,234.04	670.45	6,269.44	1.02	0.10	-1.01
14,823.00	87.67	357.79	8,426.53	6,327.91	666.25	6,362.50	1.84	-1.68	0.74
14,918.00	88.11	0.16	8,430.02	6,422.83	664.56	6,456.84	2.54	0.46	2.49
15,012.00	86.84	2.55	8,434.17	6,516.70	666.78	6,550.51	2.88	-1.35	2.54
15,106.00	87.93	3.50	8,438.45	6,610.47	671.73	6,644.33	1.54	1.16	1.01
15,200.00	88.55	2.27	8,441.34	6,704.30	676.46	6,738.19	1.46	0.66	-1.31
15,295.00	88.99	0.95	8,443.38	6,799.24	679.13	6,832.96	1.46	0.46	-1.39
15,389.00	88.90	3.06	8,445.11	6,893.16	682.42	6,926.78	2.25	-0.10	2.24
15,483.00	89.78	2.36	8,446.19	6,987.05	686.86	7,020.67	1.20	0.94	-0.74
15,577.00	89.78	0.69	8,446.56	7,081.01	689.36	7,114.45	1.78	0.00	-1.78
15,671.00	90.84	3.15	8,446.05	7,174.95	692.51	7,208.27	2.85	1.13	2.62
15,765.00	92.51	4.21	8,443.30	7,268.71	698.54	7,302.19	2.10	1.78	1.13
15,860.00	88.72	3.86	8,442.28	7,363.45	705.22	7,397.14	4.01	-3.99	-0.37
15,914.56	87.60	4.72	8,444.03	7,417.83	709.31	7,451.65	2.59	-2.05	1.58
TGT #4 (#8H)									
15,954.00	86.79	5.35	8,445.96	7,457.07	712.76	7,491.05	2.59	-2.05	1.59
16,047.00	87.14	5.00	8,450.89	7,549.56	721.14	7,583.92	0.53	0.38	-0.38
16,141.00	87.14	4.56	8,455.58	7,643.12	728.96	7,677.80	0.47	0.00	-0.47
16,235.00	87.58	2.98	8,459.91	7,736.81	735.14	7,771.66	1.74	0.47	-1.68
16,329.00	90.04	5.35	8,461.86	7,830.53	741.96	7,865.60	3.63	2.62	2.52
16,423.00	91.28	5.09	8,460.78	7,924.13	750.51	7,959.59	1.35	1.32	-0.28
16,478.00	91.71	5.09	8,459.34	7,978.90	755.39	8,014.57	0.78	0.78	0.00
Final MWD Survey									
16,530.00	91.71	5.09	8,457.79	8,030.67	760.00	8,066.55	0.00	0.00	0.00
Final Projection to Bit - PBHL (#8H)									

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
16,478.00	8,459.34	7,978.90	755.39	Final MWD Survey	
16,530.00	8,457.79	8,030.67	760.00	Final Projection to Bit	

Checked By: _____ Approved By: _____ Date: _____