

NEMO

PERMIAN OPERATIONS

Nemo Fund I, LLC

Lea NM
Larry 18SA
Unit 1-03H
Wellbore #1

Design: Wellbore #1

Completion Report

14 February, 2017



NEMO**Nabors Corporate Services**
Completion Report

Company:	Nemo Fund I, LLC	Local Co-ordinate Reference:	Well Unit 1-03H
Project:	Lea NM	TVD Reference:	RT @ 3980.00ft (Original Well Elev)
Site:	Larry 18SA	MD Reference:	RT @ 3980.00ft (Original Well Elev)
Well:	Unit 1-03H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Wellbore #1	Database:	RyanUSA_Compass

Project	Lea NM		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Larry 18SA		
Site Position:		Northing:	889,458.740 usft
From:	Map	Easting:	849,514.310 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "
		Latitude:	33° 26' 23.36549 N
		Longitude:	103° 11' 15.41326 W
		Grid Convergence:	0.63 °

Well	Unit 1-03H		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	2.00 ft		Wellhead Elevation:
			Ground Level:

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
	HDGM	1/18/2017	6.80
			Dip Angle
			61.15
			Field Strength
			48,763.30000000

Design	Wellbore #1		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			351.59

Survey Program	Date 2/14/2017		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
167.00	9,950.00	Survey #1 (Wellbore #1)	MWD+HRGM
			Description
			OWSG MWD + HRGM

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Survey Calculation Method: Minimum Curvature
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Survey

MD (ft)	Inc (")	Azi (azimuth) (")	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (")	DLeg ("/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
167.00	1.00	71.74	166.99	0.25	0.46	1.38	1.46	71.74	0.60
336.00	0.38	46.60	335.98	0.82	1.30	3.19	3.45	67.78	0.40
479.00	0.44	38.87	478.98	1.47	2.06	3.88	4.39	62.07	0.06
649.00	0.56	26.74	648.97	2.59	3.31	4.66	5.72	54.66	0.09
820.00	0.56	19.00	819.96	4.01	4.84	5.31	7.19	47.64	0.04
990.00	0.69	14.96	989.95	5.69	6.62	5.85	8.83	41.46	0.08
1,161.00	0.63	359.31	1,160.94	7.57	8.55	6.10	10.51	35.50	0.11
1,331.00	0.63	1.25	1,330.93	9.42	10.42	6.11	12.08	30.38	0.01
1,502.00	0.81	3.18	1,501.92	11.53	12.57	6.20	14.01	26.25	0.11
1,672.00	0.75	329.96	1,671.90	13.74	14.73	5.71	15.80	21.18	0.26
1,842.00	0.63	312.38	1,841.89	15.50	16.32	4.46	16.92	15.28	0.14
2,013.00	0.25	311.33	2,012.88	16.51	17.20	3.49	17.55	11.45	0.22
2,183.00	0.44	359.49	2,182.88	17.44	18.10	3.20	18.38	10.03	0.19
2,240.00	0.44	356.33	2,239.88	17.87	18.54	3.19	18.81	9.75	0.04
2,434.00	0.25	22.69	2,433.87	18.98	19.67	3.30	19.95	9.53	0.13
2,605.00	0.06	137.13	2,604.87	19.22	19.95	3.51	20.26	9.97	0.16
2,775.00	0.31	239.78	2,774.87	18.98	19.66	3.17	19.91	9.16	0.19
2,945.00	0.69	215.53	2,944.87	18.07	18.59	2.18	18.72	6.68	0.25
3,116.00	0.75	210.08	3,115.85	16.46	16.78	1.02	16.82	3.47	0.05
3,287.00	0.38	275.29	3,286.85	15.71	15.87	-0.11	15.87	359.61	0.40
3,457.00	0.38	245.76	3,456.84	15.69	15.69	-1.18	15.73	355.69	0.11
3,627.00	0.44	160.15	3,626.84	14.90	14.84	-1.48	14.92	354.32	0.33
3,798.00	0.25	193.90	3,797.84	13.91	13.86	-1.34	13.93	354.47	0.16
3,968.00	0.44	103.20	3,967.83	13.33	13.35	-0.80	13.38	356.59	0.30
4,139.00	0.69	85.45	4,138.83	13.02	13.29	0.87	13.31	3.74	0.18
4,309.00	0.50	95.47	4,308.82	12.77	13.30	2.63	13.55	11.18	0.13

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 Well: Unit 1-03H
 Wellbore: Wellbore #1
 Design: Wellbore #1

Local Co-ordinate Reference: Well Unit 1-03H
 TVD Reference: RT @ 3980.00ft (Original Well Elev)
 MD Reference: RT @ 3980.00ft (Original Well Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
 Database: RyanUSA_Compass

Survey

MD (ft)	Inc (")	Azi (azimuth) (")	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (")	DLeg ("/100ft)
4,352.00	0.31	49.76	4,351.82	12.79	13.35	2.90	13.67	12.27	0.84
4,394.00	0.38	73.49	4,393.82	12.87	13.47	3.12	13.82	13.06	0.38
4,437.00	1.75	290.58	4,436.81	13.20	13.74	2.65	13.99	10.90	4.80
4,480.00	4.56	296.74	4,479.74	14.51	14.74	0.50	14.75	1.96	6.57
4,522.00	7.50	301.83	4,521.50	17.24	16.94	-3.32	17.26	348.92	7.11
4,565.00	10.50	304.30	4,563.97	21.71	20.62	-8.94	22.48	336.57	7.03
4,604.00	13.50	304.65	4,602.11	27.23	25.22	-15.62	29.66	328.22	7.69
4,647.00	17.63	308.87	4,643.53	35.44	32.16	-24.82	40.63	322.34	9.95
4,689.00	23.88	306.05	4,682.78	46.08	41.16	-36.66	55.12	318.31	15.07
4,732.00	29.81	306.76	4,721.13	59.77	52.69	-52.27	74.22	315.23	13.81
4,774.00	36.13	302.89	4,756.35	75.36	65.68	-71.06	96.76	312.75	15.85
4,817.00	42.69	299.37	4,789.56	92.68	79.73	-94.43	123.59	310.17	16.11
4,859.00	47.81	299.55	4,819.12	110.99	94.40	-120.40	152.99	308.10	12.19
4,902.00	53.69	300.60	4,846.32	131.71	111.09	-149.19	186.01	306.67	13.80
4,945.00	60.19	301.66	4,869.76	154.65	129.72	-180.02	221.88	305.78	15.26
4,987.00	65.38	302.54	4,888.96	178.91	149.56	-211.64	259.16	305.25	12.50
5,030.00	69.63	303.42	4,905.41	205.17	171.19	-244.96	298.85	304.95	10.06
5,072.00	72.69	303.24	4,918.97	231.63	193.03	-278.17	338.58	304.76	7.30
5,115.00	76.88	303.24	4,930.26	259.20	215.77	-312.86	380.05	304.59	9.74
5,157.00	80.63	304.30	4,938.45	286.86	238.66	-347.10	421.23	304.51	9.27
5,200.00	81.81	307.11	4,945.01	316.44	263.46	-381.60	463.71	304.62	7.02
5,243.00	82.19	310.27	4,951.00	347.63	290.08	-414.83	506.19	304.96	7.33
5,285.00	81.75	314.31	4,956.87	379.80	318.05	-445.59	547.46	305.52	9.58
5,328.00	81.94	318.01	4,962.97	414.48	348.75	-475.07	589.33	306.28	8.53
5,371.00	83.38	321.87	4,968.46	450.78	381.38	-502.51	630.85	307.20	9.51
5,413.00	84.25	325.74	4,972.99	487.71	415.08	-527.16	670.96	308.22	9.39
5,456.00	85.25	328.90	4,976.92	526.74	451.11	-550.28	711.55	309.34	7.68

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Well Unit 1-03H
 RT @ 3980.00ft (Original Well Elev)
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 Minimum Curvature
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MD (ft)	Inc (°)	Azi (azimuth) (°)	TVD (ft)	V. Sec (ft)	N/S (ft)	E/W (ft)	Closure Distance (ft)	Closure Azimuth (°)	DLeg (°/100ft)
5,499.00	85.44	332.42	4,980.42	566.77	488.47	-571.27	751.63	310.53	8.17
5,541.00	85.56	336.64	4,983.71	606.78	526.26	-589.27	790.06	311.77	10.02
5,584.00	85.44	339.10	4,987.09	648.43	565.97	-605.42	828.77	313.07	5.71
5,626.00	85.81	342.44	4,990.29	689.55	605.50	-619.21	866.06	314.36	7.98
5,669.00	86.75	347.01	4,993.08	732.14	646.88	-630.51	903.33	315.73	10.83
5,673.15	86.73	347.54	4,993.32	736.27	650.92	-631.43	906.86	315.87	12.66
Unit 1-03H - LP									
5,712.00	86.56	352.46	4,995.59	775.03	689.11	-638.16	939.21	317.20	12.66
5,742.00	86.50	354.74	4,997.41	804.96	718.86	-641.50	963.47	318.25	7.59
5,772.00	88.38	357.21	4,998.75	834.83	748.76	-643.60	987.35	319.32	10.34
5,802.00	90.25	357.73	4,999.11	864.67	778.72	-644.92	1,011.11	320.37	6.47
5,830.00	90.25	357.73	4,998.99	892.51	806.70	-646.03	1,033.50	321.31	0.00
5,860.00	90.06	357.91	4,998.91	922.33	836.68	-647.17	1,057.76	322.28	0.87
5,948.00	90.19	358.44	4,998.71	1,009.75	924.63	-649.98	1,130.23	324.89	0.62
6,032.00	89.94	359.67	4,998.62	1,093.04	1,008.62	-651.36	1,200.66	327.15	1.49
6,120.00	90.19	0.72	4,998.52	1,180.05	1,096.62	-651.06	1,275.33	329.30	1.23
6,206.00	90.38	1.25	4,998.09	1,264.89	1,182.60	-649.58	1,349.26	331.22	0.65
6,293.00	89.50	3.36	4,998.18	1,350.37	1,269.53	-646.09	1,424.47	333.03	2.63
6,379.00	89.19	0.72	4,999.16	1,434.93	1,355.46	-643.02	1,500.25	334.62	3.09
6,472.00	90.50	358.96	4,999.42	1,526.96	1,448.45	-643.28	1,584.88	336.05	2.36
6,564.00	90.00	359.31	4,999.01	1,618.16	1,540.44	-644.67	1,669.90	337.29	0.66
6,656.00	89.56	358.08	4,999.37	1,709.46	1,632.42	-646.77	1,755.87	338.39	1.42
6,750.00	90.56	358.08	4,999.27	1,802.85	1,726.36	-649.92	1,844.65	339.37	1.06
6,842.00	89.94	359.31	4,998.87	1,894.14	1,818.33	-652.01	1,931.70	340.27	1.50
6,935.00	90.44	359.31	4,998.56	1,986.30	1,911.33	-653.13	2,019.84	341.13	0.54
7,027.00	91.25	0.37	4,997.20	2,077.33	2,003.31	-653.39	2,107.18	341.94	1.45
7,131.00	90.75	358.96	4,995.39	2,180.28	2,107.29	-654.00	2,206.45	342.76	1.44

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7,217.00	89.13	1.07	4,995.48	2,265.35	2,193.29	-653.98	2,288.71	343.40	3.09
7,302.00	89.50	1.78	4,996.49	2,349.09	2,278.25	-651.86	2,369.68	344.03	0.94
7,387.00	89.38	2.13	4,997.32	2,432.70	2,363.20	-648.96	2,450.69	344.64	0.44
7,472.00	91.63	359.84	4,996.58	2,516.55	2,448.17	-647.50	2,532.35	345.19	3.78
7,557.00	90.50	1.07	4,995.00	2,600.51	2,533.15	-646.83	2,614.43	345.68	1.96
7,643.00	89.31	359.67	4,995.14	2,685.50	2,619.15	-646.27	2,697.70	346.14	2.14
7,728.00	90.06	359.84	4,995.61	2,769.64	2,704.14	-646.63	2,780.38	346.55	0.90
7,813.00	89.88	0.55	4,995.65	2,853.68	2,789.14	-646.34	2,863.05	346.95	0.86
7,899.00	91.19	359.49	4,994.85	2,938.75	2,875.14	-646.31	2,946.88	347.33	1.96
7,983.00	91.69	359.14	4,992.74	3,021.96	2,959.10	-647.32	3,029.08	347.66	0.73
8,068.00	92.25	0.02	4,989.81	3,106.08	3,044.05	-647.94	3,112.24	347.98	1.23
8,154.00	91.06	359.31	4,987.33	3,191.19	3,130.01	-648.44	3,196.47	348.30	1.61
8,239.00	88.81	357.56	4,987.43	3,275.58	3,214.97	-650.77	3,280.17	348.56	3.35
8,324.00	88.81	358.08	4,989.19	3,360.06	3,299.89	-654.00	3,364.07	348.79	0.61
8,409.00	90.19	358.08	4,989.93	3,444.51	3,384.84	-656.85	3,447.98	349.02	1.62
8,494.00	90.69	358.08	4,989.28	3,528.96	3,469.79	-659.69	3,531.94	349.24	0.59
8,580.00	91.19	358.44	4,987.87	3,614.36	3,555.73	-662.30	3,616.89	349.45	0.72
8,665.00	90.81	359.67	4,986.39	3,698.63	3,640.71	-663.71	3,700.71	349.67	1.51
8,750.00	90.44	1.07	4,985.46	3,782.63	3,725.70	-663.16	3,784.26	349.91	1.70
8,836.00	89.75	358.08	4,985.32	3,867.78	3,811.69	-663.80	3,869.05	350.12	3.57
8,921.00	89.31	358.96	4,986.01	3,952.16	3,896.65	-665.99	3,953.16	350.30	1.16
9,006.00	88.56	1.42	4,987.59	4,036.18	3,981.63	-665.71	4,036.90	350.51	3.03
9,091.00	88.94	0.90	4,989.45	4,119.98	4,066.59	-663.99	4,120.44	350.73	0.76
9,177.00	89.69	1.78	4,990.48	4,204.73	4,152.56	-661.98	4,205.00	350.94	1.34
9,261.00	90.31	0.02	4,990.48	4,287.62	4,236.55	-660.66	4,287.75	351.14	2.22
9,347.00	91.06	359.49	4,989.45	4,372.74	4,322.54	-661.03	4,372.79	351.31	1.07
9,432.00	90.63	359.84	4,988.19	4,456.89	4,407.53	-661.52	4,456.90	351.46	0.65

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9,517.00	90.69	359.84	4,987.22	4,541.00	4,492.52	-661.76	4,541.00	351.62	0.07
9,602.00	90.50	0.37	4,986.33	4,625.06	4,577.52	-661.60	4,625.08	351.78	0.66
9,688.00	89.69	1.25	4,986.19	4,709.95	4,663.51	-660.39	4,710.03	351.94	1.39
9,773.00	89.19	1.60	4,987.02	4,793.69	4,748.48	-658.27	4,793.89	352.11	0.72
9,859.00	88.56	1.95	4,988.71	4,878.32	4,834.42	-655.61	4,878.67	352.28	0.84
9,903.00	88.25	1.60	4,989.93	4,921.61	4,878.38	-654.25	4,922.06	352.36	1.06
9,950.00	88.25	1.60	4,991.37	4,967.87	4,925.34	-652.94	4,968.43	352.45	0.00

Unit 1-03H - BHL

Checked By: _____ Approved By: _____ Date: _____