



Mewbourne Oil

Eddy County, NM (NAD-83)

Motley 6/7

W2AH Fee Com #2H

OH

30.015-43802

RECEIVED

JUN 13 2018

Design: OH

DISTRICT II-ARTESIA O.C.D.

Standard Survey Report

23 February, 2018



Survey Report

Company:	Mewbourne Oil	Local Co-ordinate Reference:	Well W2AH Fee Com #2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	RKB = 27' @ 3129.00usft
Site:	Motley 6/7	MD Reference:	RKB = 27' @ 3129.00usft
Well:	W2AH Fee Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Eddy County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Motley 6/7				
Site Position:		Northing:	455,983.49 usft	Latitude:	32.253396	
From:	Map	Easting:	606,906.90 usft	Longitude:	-104.121226	
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.11 °

Well	W2AH Fee Com #2H					
Well Position	+N/-S	0.00 usft	Northing:	455,953.40 usft	Latitude:	32.253314
	+E/-W	0.00 usft	Easting:	606,857.00 usft	Longitude:	-104.121388
Position Uncertainty		0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level:	3,102.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/20/2018	7.15	59.99	47,838

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)	Direction (°)	
	0.00	0.00	0.00	179.99	

Survey Program		Date	2/23/2018		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
604.00	17,330.00	Survey #1 (OH)	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)
520.00	0.70	246.00	519.97	1.36	3.92	-1.36	0.00	0.00	0.00
604.00	1.30	248.90	603.96	0.81	2.56	-0.81	0.72	0.71	3.45
694.00	0.60	212.00	693.94	0.04	1.36	-0.04	1.00	-0.78	-41.00
785.00	1.20	210.90	784.93	-1.18	0.62	1.18	0.66	0.66	-1.21
881.00	0.20	268.40	880.93	-2.05	-0.07	2.05	1.15	-1.04	59.90
976.00	0.40	316.40	975.92	-1.81	-0.46	1.81	0.32	0.21	50.53
1,069.00	0.60	323.80	1,068.92	-1.18	-0.97	1.18	0.23	0.22	7.96
1,163.00	0.90	304.80	1,162.91	-0.37	-1.87	0.37	0.41	0.32	-20.21
1,259.00	0.60	222.20	1,258.91	-0.31	-2.83	0.31	1.06	-0.31	-86.04
1,353.00	0.90	211.30	1,352.90	-1.30	-3.54	1.30	0.35	0.32	-11.60



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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)
1,448.00	0.80	223.60	1,447.89	-2.42	-4.38	2.42	0.22	-0.11	12.95
1,543.00	0.70	153.50	1,542.88	-3.42	-4.58	3.42	0.91	-0.11	-73.79
1,638.00	2.00	111.40	1,637.85	-4.55	-2.78	4.54	1.63	1.37	-44.32
1,733.00	2.20	88.20	1,732.79	-5.09	0.59	5.09	0.91	0.21	-24.42
1,827.00	1.50	52.20	1,826.75	-4.28	3.36	4.28	1.41	-0.74	-38.30
1,926.00	2.30	55.40	1,925.69	-2.36	6.02	2.36	0.81	0.81	3.23
2,021.00	3.10	72.60	2,020.59	-0.51	10.04	0.51	1.19	0.84	18.11
2,115.00	2.60	81.40	2,114.47	0.57	14.57	-0.57	0.71	-0.53	9.36
2,210.00	2.80	102.30	2,209.37	0.40	18.97	-0.39	1.05	0.21	22.00
2,305.00	2.40	91.40	2,304.27	-0.15	23.23	0.15	0.67	-0.42	-11.47
2,400.00	2.20	87.90	2,399.19	-0.13	27.04	0.13	0.26	-0.21	-3.68
2,492.00	2.10	87.40	2,491.13	0.01	30.49	-0.01	0.11	-0.11	-0.54
2,588.00	2.60	97.60	2,587.05	-0.19	34.40	0.20	0.68	0.52	10.63
2,683.00	2.60	100.00	2,681.95	-0.85	38.66	0.86	0.11	0.00	2.53
2,778.00	3.50	96.70	2,776.81	-1.57	43.66	1.57	0.96	0.95	-3.47
2,872.00	3.70	95.10	2,870.63	-2.17	49.53	2.18	0.24	0.21	-1.70
2,967.00	3.30	97.70	2,965.45	-2.81	55.30	2.82	0.45	-0.42	2.74
3,061.00	3.50	99.00	3,059.29	-3.62	60.81	3.63	0.23	0.21	1.38
3,156.00	2.90	92.60	3,154.14	-4.18	66.08	4.19	0.73	-0.63	-6.74
3,250.00	2.30	90.70	3,248.04	-4.31	70.34	4.33	0.64	-0.64	-2.02
3,345.00	2.00	93.50	3,342.97	-4.44	73.90	4.45	0.33	-0.32	2.95
3,440.00	1.80	94.20	3,437.92	-4.65	77.04	4.66	0.21	-0.21	0.74
3,535.00	2.90	90.90	3,532.84	-4.80	80.93	4.81	1.17	1.16	-3.47
3,630.00	4.00	90.70	3,627.67	-4.87	86.65	4.89	1.16	1.16	-0.21
3,724.00	3.70	90.90	3,721.45	-4.96	92.96	4.98	0.32	-0.32	0.21
3,818.00	3.20	92.30	3,815.28	-5.11	98.61	5.13	0.54	-0.53	1.49
3,913.00	2.60	91.60	3,910.16	-5.28	103.42	5.30	0.63	-0.63	-0.74
4,008.00	3.60	93.70	4,005.02	-5.53	108.55	5.55	1.06	1.05	2.21
4,102.00	4.00	96.50	4,098.81	-6.10	114.75	6.12	0.47	0.43	2.98
4,197.00	4.20	96.30	4,193.57	-6.85	121.50	6.87	0.21	0.21	-0.21
4,292.00	3.80	91.10	4,288.34	-7.29	128.10	7.32	0.57	-0.42	-5.47
4,387.00	3.50	95.10	4,383.15	-7.61	134.14	7.64	0.41	-0.32	4.21
4,481.00	3.50	94.00	4,476.97	-8.07	139.86	8.09	0.07	0.00	-1.17
4,576.00	3.50	92.50	4,571.79	-8.40	145.65	8.42	0.10	0.00	-1.58
4,671.00	2.60	97.60	4,666.66	-8.81	150.68	8.83	0.99	-0.95	5.37
4,766.00	3.00	88.60	4,761.55	-9.03	155.30	9.06	0.62	0.42	-9.47
4,861.00	2.60	92.50	4,856.43	-9.07	159.94	9.09	0.47	-0.42	4.11
4,956.00	3.30	81.00	4,951.31	-8.73	164.80	8.76	0.96	0.74	-12.11
5,051.00	3.50	78.60	5,046.14	-7.73	170.34	7.76	0.26	0.21	-2.53
5,145.00	3.00	78.40	5,139.99	-6.67	175.56	6.70	0.53	-0.53	-0.21
5,240.00	2.50	88.80	5,234.88	-6.13	180.07	6.16	0.74	-0.53	10.95
5,335.00	3.50	88.80	5,329.75	-6.02	185.04	6.05	1.05	1.05	0.00
5,429.00	3.60	91.40	5,423.57	-6.03	190.86	6.07	0.20	0.11	2.77
5,524.00	2.80	99.70	5,518.42	-6.50	196.13	6.53	0.97	-0.84	8.74



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 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well W2AH Fee Com #2H
 TVD Reference: RKB = 27' @ 3129.00usft
 MD Reference: RKB = 27' @ 3129.00usft
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature
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5,618.00	2.90	103.00	5,612.30	-7.42	200.71	7.45	0.20	0.11	3.51
5,713.00	3.50	94.00	5,707.16	-8.16	205.94	8.20	0.82	0.63	-9.47
5,808.00	3.00	97.20	5,802.00	-8.68	211.30	8.71	0.56	-0.53	3.37
5,903.00	2.80	94.90	5,896.88	-9.19	216.08	9.22	0.24	-0.21	-2.42
5,998.00	2.60	91.60	5,991.77	-9.44	220.54	9.48	0.27	-0.21	-3.47
6,093.00	2.60	92.10	6,086.68	-9.58	224.85	9.62	0.02	0.00	0.53
6,188.00	3.10	95.60	6,181.56	-9.91	229.56	9.95	0.56	0.53	3.68
6,283.00	2.50	87.70	6,276.45	-10.08	234.19	10.12	0.75	-0.63	-8.32
6,378.00	2.60	80.30	6,371.35	-9.63	238.38	9.68	0.36	0.11	-7.79
6,472.00	3.30	87.70	6,465.23	-9.17	243.19	9.21	0.85	0.74	7.87
6,568.00	2.10	61.30	6,561.12	-8.21	247.49	8.25	1.77	-1.25	-27.50
6,663.00	2.80	112.10	6,656.05	-8.25	251.17	8.29	2.31	0.74	53.47
6,758.00	2.70	96.20	6,750.94	-9.36	255.54	9.41	0.81	-0.11	-16.74
6,853.00	4.70	86.10	6,845.74	-9.34	261.65	9.39	2.21	2.11	-10.63
6,948.00	5.60	81.90	6,940.35	-8.42	270.12	8.47	1.03	0.95	-4.42
7,043.00	3.60	83.80	7,035.04	-7.45	277.68	7.49	2.11	-2.11	2.00
7,138.00	3.00	79.30	7,129.88	-6.66	283.09	6.71	0.69	-0.63	-4.74
7,233.00	2.60	78.20	7,224.77	-5.76	287.64	5.81	0.42	-0.42	-1.16
7,328.00	4.20	87.90	7,319.60	-5.19	293.22	5.24	1.78	1.68	10.21
7,422.00	4.80	108.10	7,413.32	-6.29	300.40	6.34	1.79	0.64	21.49
7,517.00	4.00	133.10	7,508.04	-9.79	306.60	9.84	2.17	-0.84	26.32
7,612.00	2.80	115.80	7,602.88	-13.06	311.11	13.12	1.65	-1.26	-18.21
7,707.00	3.00	121.10	7,697.76	-15.36	315.33	15.41	0.35	0.21	5.58
7,802.00	3.50	102.70	7,792.60	-17.28	320.28	17.33	1.21	0.53	-19.37
7,897.00	4.10	80.00	7,887.40	-17.32	326.46	17.38	1.69	0.63	-23.89
7,992.00	2.70	81.90	7,982.23	-16.42	332.02	16.48	1.48	-1.47	2.00
8,087.00	2.20	84.90	8,077.14	-15.94	336.05	16.00	0.54	-0.53	3.16
8,182.00	2.60	81.00	8,172.06	-15.44	339.99	15.50	0.45	0.42	-4.11
8,277.00	2.90	94.40	8,266.95	-15.29	344.52	15.35	0.74	0.32	14.11
8,372.00	3.50	94.20	8,361.80	-15.69	349.81	15.75	0.63	0.63	-0.21
8,467.00	2.60	87.40	8,456.67	-15.80	354.85	15.86	1.02	-0.95	-7.16
8,562.00	3.00	88.10	8,551.55	-15.62	359.49	15.68	0.42	0.42	0.74
8,657.00	3.50	94.60	8,646.40	-15.77	364.86	15.84	0.65	0.53	6.84
8,752.00	3.00	86.00	8,741.25	-15.83	370.23	15.90	0.73	-0.53	-9.05
8,847.00	2.30	79.60	8,836.15	-15.31	374.59	15.38	0.80	-0.74	-6.74
8,942.00	2.60	90.50	8,931.06	-14.99	378.62	15.05	0.58	0.32	11.47
9,036.00	3.50	95.30	9,024.93	-15.27	383.61	15.34	0.99	0.96	5.11
9,131.00	3.80	96.30	9,119.73	-15.89	389.62	15.95	0.32	0.32	1.05
9,225.00	3.00	100.20	9,213.57	-16.66	395.14	16.73	0.89	-0.85	4.15
9,320.00	2.20	107.40	9,308.47	-17.65	399.33	17.72	0.91	-0.84	7.58
9,416.00	1.80	123.20	9,404.41	-19.02	402.35	19.09	0.71	-0.42	16.46
9,511.00	1.80	117.80	9,499.37	-20.54	404.92	20.61	0.18	0.00	-5.68
9,606.00	1.80	122.30	9,594.32	-22.03	407.50	22.10	0.15	0.00	4.74



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9,701.00	1.60	143.10	9,689.28	-23.89	409.55	23.96	0.68	-0.21	21.89
9,797.00	5.80	177.30	9,785.06	-29.81	410.59	29.88	4.76	4.38	35.63
9,829.00	9.30	181.80	9,816.78	-34.01	410.58	34.08	11.08	10.94	14.06
9,860.00	13.20	180.80	9,847.18	-40.05	410.46	40.13	12.60	12.58	-3.23
9,892.00	17.50	178.00	9,878.03	-48.52	410.57	48.59	13.63	13.44	-8.75
9,924.00	21.20	174.20	9,908.22	-59.09	411.33	59.16	12.21	11.56	-11.88
9,955.00	25.10	168.70	9,936.72	-71.12	413.18	71.19	14.37	12.58	-17.74
9,987.00	29.10	166.60	9,965.20	-85.35	416.32	85.42	12.85	12.50	-6.56
10,019.00	32.20	166.00	9,992.73	-101.20	420.18	101.27	9.73	9.69	-1.88
10,050.00	34.30	167.10	10,018.65	-117.73	424.13	117.80	7.05	6.77	3.55
10,082.00	36.50	168.50	10,044.74	-135.84	428.04	135.92	7.33	6.88	4.38
10,113.00	38.10	169.30	10,069.40	-154.28	431.66	154.35	5.39	5.16	2.58
10,145.00	39.80	168.40	10,094.28	-174.01	435.55	174.09	5.60	5.31	-2.81
10,177.00	42.60	167.40	10,118.36	-194.62	439.97	194.70	8.99	8.75	-3.13
10,209.00	45.40	167.10	10,141.37	-216.30	444.88	216.38	8.77	8.75	-0.94
10,240.00	48.30	167.20	10,162.57	-238.35	449.91	238.42	9.36	9.35	0.32
10,272.00	51.10	167.50	10,183.27	-262.16	455.25	262.24	8.78	8.75	0.94
10,304.00	53.30	167.50	10,202.88	-286.84	460.72	286.92	6.88	6.88	0.00
10,335.00	55.60	168.00	10,220.90	-311.49	466.07	311.57	7.53	7.42	1.61
10,367.00	57.90	168.60	10,238.45	-337.69	471.50	337.77	7.36	7.19	1.88
10,399.00	59.80	169.30	10,255.00	-364.57	476.74	364.65	6.23	5.94	2.19
10,431.00	62.00	169.40	10,270.56	-392.05	481.91	392.13	6.88	6.88	0.31
10,463.00	64.60	169.50	10,284.94	-420.15	487.14	420.23	8.13	8.13	0.31
10,479.00	66.00	169.50	10,291.62	-434.44	489.79	434.53	8.75	8.75	0.00
10,518.00	70.20	172.50	10,306.17	-470.17	495.44	470.26	12.92	10.77	7.69
10,549.00	70.50	171.70	10,316.59	-499.09	499.45	499.17	2.62	0.97	-2.58
10,580.00	71.70	171.70	10,326.63	-528.11	503.68	528.19	3.87	3.87	0.00
10,612.00	72.90	171.70	10,336.36	-558.27	508.08	558.36	3.75	3.75	0.00
10,644.00	75.20	172.10	10,345.16	-588.73	512.42	588.82	7.29	7.19	1.25
10,676.00	77.10	171.70	10,352.82	-619.49	516.80	619.58	6.06	5.94	-1.25
10,707.00	78.90	171.60	10,359.26	-649.49	521.20	649.58	5.82	5.81	-0.32
10,739.00	80.40	171.70	10,365.01	-680.63	525.77	680.73	4.70	4.69	0.31
10,771.00	82.80	172.40	10,369.68	-711.98	530.15	712.08	7.81	7.50	2.19
10,802.00	84.40	172.10	10,373.14	-742.51	534.30	742.60	5.25	5.16	-0.97
10,834.00	86.50	172.00	10,375.68	-774.10	538.72	774.19	6.57	6.56	-0.31
10,866.00	88.30	172.00	10,377.13	-805.75	543.16	805.85	5.63	5.63	0.00
10,898.00	90.00	172.20	10,377.60	-837.45	547.56	837.54	5.35	5.31	0.63
10,993.00	91.00	172.30	10,376.78	-931.57	560.37	931.67	1.06	1.05	0.11
11,088.00	90.90	173.70	10,375.20	-1,025.85	571.95	1,025.95	1.48	-0.11	1.47
11,183.00	92.00	174.60	10,372.80	-1,120.32	581.63	1,120.42	1.50	1.16	0.95
11,278.00	91.90	175.40	10,369.56	-1,214.91	589.90	1,215.01	0.85	-0.11	0.84
11,373.00	93.00	177.00	10,365.50	-1,309.61	596.19	1,309.71	2.04	1.16	1.68
11,468.00	92.70	178.70	10,360.78	-1,404.42	599.75	1,404.52	1.81	-0.32	1.79



Company:	Mewbourne Oil	Local Co-ordinate Reference:	Well W2AH Fee Com #2H
Project:	Eddy County, NM (NAD-83)	TVD Reference:	RKB = 27' @ 3129.00usft
Site:	Motley 6/7	MD Reference:	RKB = 27' @ 3129.00usft
Well:	W2AH Fee Com #2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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)
11,563.00	94.30	179.70	10,354.98	-1,499.23	601.08	1,499.33	1.99	1.68	1.05
11,658.00	93.80	180.40	10,348.27	-1,593.99	600.99	1,594.09	0.90	-0.53	0.74
11,753.00	91.30	181.30	10,344.04	-1,688.88	599.59	1,688.98	2.80	-2.63	0.95
11,848.00	88.70	180.50	10,344.04	-1,783.85	598.09	1,783.96	2.86	-2.74	-0.84
11,943.00	89.80	181.20	10,345.29	-1,878.83	596.68	1,878.94	1.37	1.16	0.74
12,038.00	90.40	181.80	10,345.12	-1,973.80	594.20	1,973.90	0.89	0.63	0.63
12,132.00	87.90	181.40	10,346.52	-2,067.75	591.57	2,067.85	2.69	-2.66	-0.43
12,228.00	88.50	180.50	10,349.53	-2,163.68	589.98	2,163.79	1.13	0.63	-0.94
12,322.00	89.00	179.50	10,351.58	-2,257.66	589.98	2,257.76	1.19	0.53	-1.06
12,418.00	91.60	179.10	10,351.08	-2,353.64	591.15	2,353.75	2.74	2.71	-0.42
12,512.00	92.00	178.90	10,348.13	-2,447.58	592.79	2,447.69	0.48	0.43	-0.21
12,608.00	90.50	178.30	10,346.03	-2,543.53	595.14	2,543.63	1.68	-1.56	-0.63
12,702.00	91.20	179.00	10,344.64	-2,637.49	597.35	2,637.59	1.05	0.74	0.74
12,797.00	90.60	179.10	10,343.15	-2,732.46	598.93	2,732.57	0.64	-0.63	0.11
12,892.00	89.30	179.40	10,343.23	-2,827.45	600.17	2,827.56	1.40	-1.37	0.32
12,987.00	89.30	179.10	10,344.39	-2,922.44	601.42	2,922.54	0.32	0.00	-0.32
13,081.00	88.40	178.60	10,346.28	-3,016.40	603.30	3,016.51	1.10	-0.96	-0.53
13,177.00	89.50	178.80	10,348.03	-3,112.36	605.48	3,112.46	1.16	1.15	0.21
13,272.00	90.60	179.10	10,347.95	-3,207.34	607.22	3,207.45	1.20	1.16	0.32
13,366.00	90.90	178.80	10,346.72	-3,301.32	608.94	3,301.42	0.45	0.32	-0.32
13,461.00	90.70	179.50	10,345.39	-3,396.30	610.35	3,396.40	0.77	-0.21	0.74
13,556.00	90.10	178.90	10,344.73	-3,491.28	611.68	3,491.39	0.89	-0.63	-0.63
13,651.00	89.30	178.30	10,345.23	-3,586.25	614.00	3,586.36	1.05	-0.84	-0.63
13,746.00	90.20	179.20	10,345.64	-3,681.23	616.07	3,681.33	1.34	0.95	0.95
13,841.00	89.70	179.20	10,345.73	-3,776.22	617.40	3,776.32	0.53	-0.53	0.00
13,936.00	91.00	180.90	10,345.15	-3,871.21	617.32	3,871.32	2.25	1.37	1.79
14,031.00	90.60	181.10	10,343.82	-3,966.19	615.66	3,966.29	0.47	-0.42	0.21
14,127.00	89.50	181.30	10,343.74	-4,062.16	613.65	4,062.27	1.16	-1.15	0.21
14,222.00	90.30	180.50	10,343.90	-4,157.15	612.15	4,157.26	1.19	0.84	-0.84
14,317.00	91.40	179.90	10,342.49	-4,252.14	611.82	4,252.24	1.32	1.16	-0.63
14,412.00	88.90	179.70	10,342.24	-4,347.13	612.15	4,347.24	2.64	-2.63	-0.21
14,507.00	93.80	180.60	10,340.01	-4,442.07	611.91	4,442.18	5.24	5.16	0.95
14,602.00	93.70	180.80	10,333.79	-4,536.86	610.75	4,536.97	0.23	-0.11	0.21
14,697.00	91.50	181.20	10,329.48	-4,631.74	609.09	4,631.85	2.35	-2.32	0.42
14,792.00	90.30	180.60	10,327.99	-4,726.72	607.60	4,726.82	1.41	-1.26	-0.63
14,888.00	88.70	181.10	10,328.83	-4,822.70	606.18	4,822.81	1.75	-1.67	0.52
14,982.00	88.70	180.80	10,330.96	-4,916.66	604.62	4,916.77	0.32	0.00	-0.32
15,077.00	83.50	178.50	10,337.42	-5,011.40	605.19	5,011.51	5.98	-5.47	-2.42
15,162.00	86.50	177.40	10,344.83	-5,096.01	608.22	5,096.12	3.76	3.53	-1.29
15,261.00	89.60	178.00	10,348.20	-5,194.86	612.19	5,194.97	3.19	3.13	0.61
15,356.00	91.20	178.80	10,347.53	-5,289.82	614.84	5,289.93	1.88	1.68	0.84
15,451.00	91.80	177.10	10,345.05	-5,384.72	618.24	5,384.83	1.90	0.63	-1.79
15,546.00	92.10	178.10	10,341.81	-5,479.58	622.22	5,479.69	1.10	0.32	1.05
15,641.00	92.20	177.40	10,338.25	-5,574.44	625.94	5,574.55	0.74	0.11	-0.74



Survey Report

Company: Mewbourne Oil
Project: Eddy County, NM (NAD-83)
Site: Motley 6/7
Well: W2AH Fee Com #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well W2AH Fee Com #2H
TVD Reference: RKB = 27' @ 3129.00usft
MD Reference: RKB = 27' @ 3129.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Single User Db

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)
15,736.00	90.50	176.70	10,336.01	-5,669.29	630.83	5,669.40	1.94	-1.79	-0.74
15,832.00	92.40	182.80	10,333.58	-5,765.21	631.25	5,765.32	6.65	1.98	6.35
15,927.00	91.20	183.00	10,330.60	-5,860.03	626.45	5,860.14	1.28	-1.26	0.21
16,022.00	90.60	182.50	10,329.11	-5,954.91	621.89	5,955.02	0.82	-0.63	-0.53
16,117.00	91.00	182.60	10,327.78	-6,049.81	617.66	6,049.92	0.43	0.42	0.11
16,211.00	88.00	182.60	10,328.60	-6,143.70	613.40	6,143.81	3.19	-3.19	0.00
16,306.00	84.70	180.70	10,334.65	-6,238.45	610.67	6,238.56	4.01	-3.47	-2.00
16,401.00	90.30	179.80	10,338.79	-6,333.32	610.26	6,333.43	5.97	5.89	-0.95
16,496.00	88.20	179.40	10,340.03	-6,428.30	610.92	6,428.41	2.25	-2.21	-0.42
16,591.00	94.30	181.10	10,337.96	-6,523.23	610.51	6,523.34	6.67	6.42	1.79
16,686.00	92.90	181.40	10,332.00	-6,618.02	608.44	6,618.12	1.51	-1.47	0.32
16,780.00	92.00	182.20	10,327.98	-6,711.88	605.49	6,711.99	1.28	-0.96	0.85
16,876.00	91.70	182.20	10,324.88	-6,807.76	601.80	6,807.87	0.31	-0.31	0.00
16,970.00	89.90	182.20	10,323.57	-6,901.68	598.20	6,901.79	1.91	-1.91	0.00
17,065.00	89.50	183.30	10,324.06	-6,996.57	593.64	6,996.67	1.23	-0.42	1.16
17,160.00	88.50	184.70	10,325.72	-7,091.32	587.01	7,091.42	1.81	-1.05	1.47
17,255.00	87.60	184.30	10,328.95	-7,185.97	579.56	7,186.07	1.04	-0.95	-0.42
17,280.00	87.50	184.70	10,330.02	-7,210.87	577.60	7,210.97	1.65	-0.40	1.60
17,330.00	87.50	184.60	10,332.20	-7,260.66	573.56	7,260.76	0.20	0.00	-0.20

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
W2AH Fee Com #2H	0.00	0.00	10,332.20	-7,260.66	573.56	448,692.74	607,430.56	32.233352	-104.119579
			0						
- actual wellpath hits target center									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,330.00	10,332.20	-7,260.66	573.56	TD: Y= 448692.74 / X= 607430.56
17,330.00	10,332.20	-7,260.66	573.56	Lat: 32.233352 / Long: -104.119579
17,330.00	10,332.20	-7,260.66	573.56	Final Station Closure Distance= 7283.28 /Direction= 184.60
17,330.00	10,332.20	-7,260.66	573.56	Projection to Bit: 17330.00' MD/ 10332.20' TVD
17,330.00	10,332.20	-7,260.66	573.56	Projection to Bit: FEL: 393'/ FSL: 3018'

Checked By: _____ Approved By: _____ Date: _____



Project: Eddy County, NM (NAD-83)
Site: Motley 6/7
Well: W2AH Fee Com #2H
Wellbore: OH
Design: Plan #3

PROJECT DETAILS: Eddy County, NM (NAD-83)
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level



WELL DETAILS: W2AH Fee Com #2H

Rig Name: RKB = 27' @ 3129.00usft
Ground Level: 3102.00
+N/-S +E/-W Northing Easting Latitude Longitude
0.00 0.00 455953.40 606857.00 32.253313 -104.121387

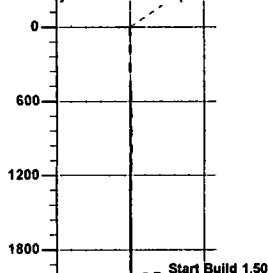
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Motley 6/7 FC #2H: SHL (335' FNL & 970' FEL)	0.00	0.00	0.00	455953.40	606857.00	32.253313	-104.121387	Point
Motley 6/7 FC #2H: PBHL (2310' FNL & 330' FEL)	10343.00	-7267.10	636.30	448686.30	607493.30	32.233334	-104.119376	Point
Motley 6/7 FC #2H: Plan #3 LP	10372.95	-560.12	532.41	455393.28	607389.41	32.251771	-104.119669	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00
3	2209.36	3.14	90.00	2209.26	0.00	5.74	1.50	90.00	0.00
4	6301.50	3.14	90.00	6290.74	0.00	394.26	0.00	0.00	0.07
5	8510.86	0.00	0.00	9500.00	0.00	400.00	1.50	180.00	0.07
6	9810.86	0.00	0.00	9800.00	0.00	400.00	0.00	0.00	0.07
7	10713.46	90.26	166.70	10372.95	-560.12	532.41	10.00	166.70	560.21
8	11599.17	90.26	179.99	10368.95	-1437.88	634.85	1.50	89.99	1437.99
9	17428.45	90.26	179.99	10343.00	-7267.10	636.30	0.00	0.00	7267.21

Motley 6/7 FC #2H: SHL (335' FNL & 970' FEL)



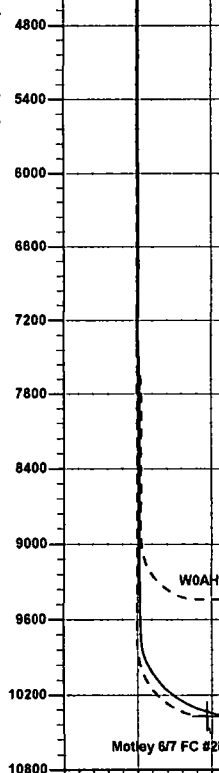
LEGEND

— W0AH Fee Com #1H, OH, OH V0
— W2AH Fee Com #2H, OH, OH V0
— Plan #3



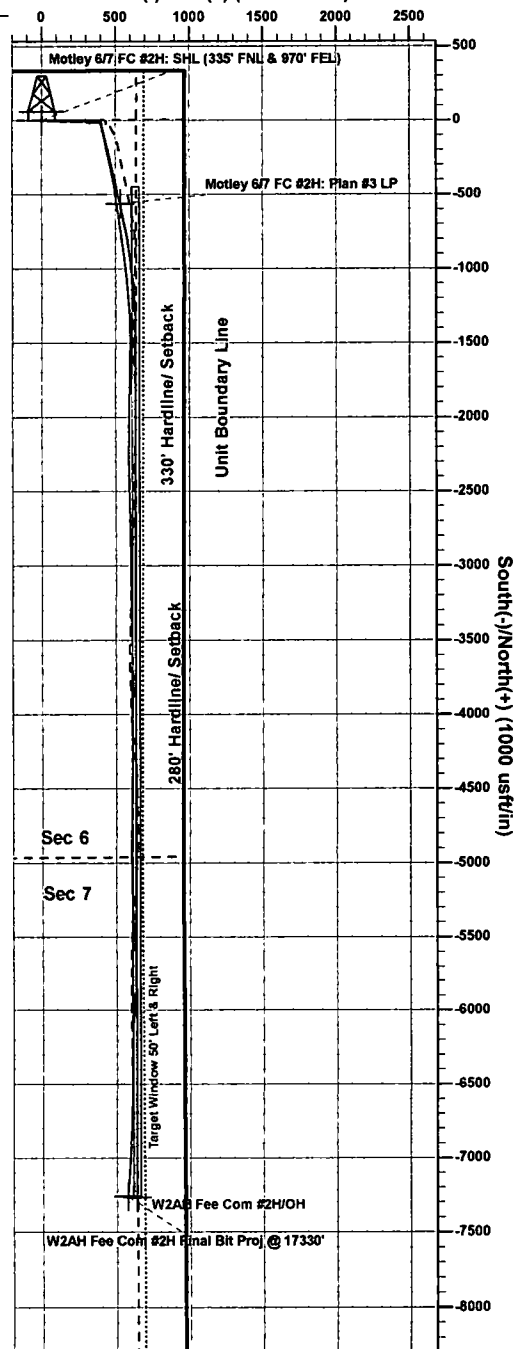
Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.03°
Magnetic Field
Strength: 47837.9snT
Dip Angle: 59.99°
Date: 1/20/2018
Model: IGRF2015

True Vertical Depth (1200 usft/in)



Vertical Section at 179.99° (1200 usft/in)

West(-)/East(+) (1000 usft/in)



South(-)/North(+) (1000 usft/in)

W2AH Fee Com #2H/OH
TD: Y= 448692.74 / X= 607430.56
Lat: 32.233352 / Long: -104.119579
Final Station Closure Distance= 7283.28 / Direction= 184.50
Projection to Bit: 17330.00' MD/ 10332.20' TVD
Projection to Bit: FEL: 393' / ESL: 3018'

Motley 6/7 FC #2H: PBHL (2310' FNL & 330' FEL)

Plan: Plan #3 (W2AH Fee Com #2H/OH)

Created By: Matthew May Date: 10:31, February 23 2018

Note: All Plan details including boundary lines and offset well data is subject to customers approval

Kingsley Directional LLC



**New Mexico Energy, Minerals and Natural Resources Department
Attn: Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505**

**Re Mewbourne Oil Company
Motley 6/7 W2AH Fee Com #2H
Wolfcap
Eddy County, New Mexico
API# 30-015-43802**

Enclosed please find a copy of the survey performed on the reference well by Kingsley Directional LLC
Other information required by your office is as followed:

<u>Name</u>	<u>Drain hole #</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Survey Type</u>
Skip Agness	Original	604' to 17,280'	01/24/18 - 02/19/18	MWD

A certified plat at which the bottom-hole location is oriented to both surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jarrett K Lott

Enclosures

CC:

Mewbourne Oil Company
Attn: Kyle Freidenbloom
PO Box 5720
Hobbs, NM 88241

Mewbourne Oil Company
Attn: Robin Terrell
PO Box 5720
Hobbs, NM 88241

**Kingsley Directional LLC
13843 Hwy 105 W Suite 214
Conroe, TX 77304
(432)556-1960**

Kingsley Directional LLC

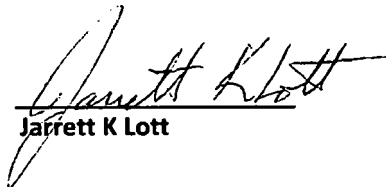


Survey Certification Report

STATE OF TEXAS

COUNTY OF MONTGOMERY

I, Jarrett K Lott, certify that I am employed by Kingsley Directional LLC, and that I did on the day(s) of January 24, 2018 through February 19, 2018 conduct or supervise the taking of a MWD Survey from the depth of 604 feet to a depth of 17,280 feet; that the data is true, complete, and within the limitations set forth by Kingsley Directional, LLC, that I am authorized and qualified to make this report; that this survey was conducted at the request of Mewbourne Oil Company, for the Motley 6/7 W2AH Fee Com #2H well, API# 30-015-43802 in Eddy County, New Mexico.


Jarrett K Lott

Kingsley Directional LLC

Kingsley Directional LLC
13843 Hwy 105 W Suite 214
Conroe, TX 77304
(432)556-1960