

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
Boston 7 WOMP Fee #2H
Wolfcap
Eddy County, New Mexico
API# 30-015-44463**

**NM OIL CONSERVATION
ARTESIA DISTRICT**

FEB 07 2018

RECEIVED

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>Drainhole #</u>	<u>Survey Depths</u>	<u>Dates Performed</u>	<u>Survey Type</u>
Greg Smith	Original	539' to 14,135	11/21/17 - 12/15/17	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**



Mewbourne Oil
Eddy County, NM (NAD-83)
Boston 7 W0MP Fee
#2H

OH

Design: OH

Standard Survey Report

15 December, 2017

NM OIL CONSERVATION
ARTESIA DISTRICT

FEB 07 2018

RECEIVED



Survey Report

Company: Mewbourne Oil
Project: Eddy County, NM (NAD-83)
Site: Boston 7 WOMP Fee
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: RKB = 27' @ 3114.00usft (Rig #217)
MD Reference: RKB = 27' @ 3114.00usft (Rig #217)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
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	Boston 7 WOMP Fee			
Site Position:		Northing:	446,347.00 usft	Latitude: 32.226928
From: Map		Easting:	602,868.60 usft	Longitude: -104.134347
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.11 °

Well	#2H			
Well Position	+N/-S	0.00 usft	Northing:	446,347.00 usft
	+E/-W	0.00 usft	Easting:	602,868.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft	Ground Level: 3,087.00 usft

Wellbore	OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)
	IGRF2015	11/25/2017	7.17	59.97
				Field Strength (nT) 47,837

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	92.87

Survey Program	Date 12/15/2017			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
539.00	14,135.00	Survey #1 (OH)	MWD	MWD - Standard

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)
438.00	4.80	43.10	437.72	8.33	5.84	5.42	0.00	0.00	0.00
539.00	4.40	54.20	538.40	13.68	11.87	11.17	0.96	-0.40	10.99
631.00	2.00	72.50	630.25	16.23	16.26	15.43	2.80	-2.61	19.89
723.00	0.80	203.40	722.23	16.12	17.54	16.71	2.82	-1.30	142.28
881.00	3.80	235.10	880.09	12.11	12.81	12.18	1.99	1.90	20.06
975.00	3.20	229.10	973.91	8.61	8.27	7.83	0.75	-0.64	-6.38
1,069.00	4.30	221.30	1,067.71	4.25	3.96	3.74	1.29	1.17	-8.30
1,164.00	3.20	211.50	1,162.51	-0.69	0.22	0.26	1.34	-1.16	-10.32
1,259.00	2.50	207.60	1,257.39	-4.79	-2.12	-1.88	0.76	-0.74	-4.11
1,353.00	3.20	212.90	1,351.27	-8.80	-4.50	-4.05	0.79	0.74	5.64



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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	1.30	234.40	1,446.20	-11.66	-6.81	-6.22	2.15	-2.00	22.63
1,542.00	1.10	231.00	1,540.18	-12.85	-8.38	-7.73	0.23	-0.21	-3.62
1,637.00	0.80	156.30	1,635.17	-14.03	-8.82	-8.11	1.24	-0.32	-78.63
1,731.00	2.50	115.40	1,729.13	-15.51	-6.71	-5.92	2.09	1.81	-43.51
1,826.00	1.20	139.40	1,824.08	-17.15	-4.19	-3.33	1.56	-1.37	25.26
1,923.00	3.00	153.70	1,921.01	-20.20	-2.40	-1.39	1.92	1.86	14.74
2,018.00	3.60	157.50	2,015.85	-25.18	-0.16	1.10	0.67	0.63	4.00
2,113.00	3.20	142.10	2,110.68	-30.03	2.61	4.11	1.05	-0.42	-16.21
2,208.00	2.70	135.70	2,205.56	-33.73	5.80	7.48	0.63	-0.53	-6.74
2,303.00	1.60	128.50	2,300.49	-36.15	8.40	10.20	1.19	-1.16	-7.58
2,365.00	1.00	132.20	2,362.47	-37.06	9.48	11.32	0.98	-0.97	5.97
2,426.00	1.10	116.10	2,423.46	-37.67	10.40	12.27	0.51	0.16	-26.39
2,521.00	1.00	217.70	2,518.45	-38.73	10.71	12.64	1.71	-0.11	106.95
2,616.00	2.50	238.60	2,613.41	-40.46	8.44	10.45	1.69	1.58	22.00
2,711.00	4.20	244.90	2,708.24	-43.02	3.52	5.67	1.83	1.79	6.63
2,774.00	4.40	246.10	2,771.07	-44.98	-0.78	1.47	0.35	0.32	1.90
2,870.00	4.60	246.50	2,866.77	-48.00	-7.68	-5.27	0.21	0.21	0.42
2,964.00	4.50	248.40	2,960.47	-50.86	-14.56	-12.00	0.19	-0.11	2.02
3,059.00	4.50	246.80	3,055.18	-53.70	-21.45	-18.74	0.13	0.00	-1.68
3,154.00	4.20	244.60	3,149.91	-56.66	-28.02	-25.15	0.36	-0.32	-2.32
3,248.00	3.90	243.00	3,243.67	-59.59	-33.98	-30.96	0.34	-0.32	-1.70
3,343.00	3.80	244.00	3,338.46	-62.44	-39.69	-36.51	0.13	-0.11	1.05
3,438.00	4.90	247.20	3,433.18	-65.39	-46.26	-42.93	1.19	1.16	3.37
3,533.00	4.90	248.20	3,527.84	-68.47	-53.76	-50.27	0.09	0.00	1.05
3,628.00	4.70	249.60	3,622.50	-71.33	-61.18	-57.53	0.24	-0.21	1.47
3,723.00	4.30	251.60	3,717.21	-73.81	-68.21	-64.43	0.45	-0.42	2.11
3,818.00	4.20	245.80	3,811.95	-76.36	-74.76	-70.85	0.46	-0.11	-6.11
3,913.00	3.90	246.00	3,906.71	-79.10	-80.88	-76.83	0.32	-0.32	0.21
4,008.00	3.90	244.90	4,001.49	-81.79	-86.76	-82.56	0.08	0.00	-1.16
4,103.00	3.70	243.10	4,096.28	-84.55	-92.42	-88.08	0.25	-0.21	-1.89
4,198.00	4.40	246.70	4,191.04	-87.37	-98.50	-94.01	0.78	0.74	3.79
4,293.00	4.20	249.80	4,285.78	-90.02	-105.11	-100.48	0.32	-0.21	3.26
4,388.00	3.80	250.00	4,380.55	-92.30	-111.34	-106.58	0.42	-0.42	0.21
4,484.00	4.40	247.50	4,476.30	-94.79	-117.73	-112.84	0.65	0.63	-2.60
4,579.00	4.10	246.50	4,571.04	-97.54	-124.21	-119.17	0.33	-0.32	-1.05
4,674.00	3.50	248.40	4,665.83	-99.96	-130.02	-124.86	0.65	-0.63	2.00
4,769.00	4.60	249.10	4,760.59	-102.39	-136.27	-130.98	1.16	1.16	0.74
4,863.00	4.80	236.30	4,854.28	-105.92	-143.07	-137.59	1.13	0.21	-13.62
4,959.00	4.70	234.50	4,949.95	-110.43	-149.61	-143.90	0.19	-0.10	-1.88
5,054.00	4.10	235.40	5,044.67	-114.62	-155.58	-149.65	0.64	-0.63	0.95
5,149.00	3.90	236.10	5,139.44	-118.35	-161.05	-154.93	0.22	-0.21	0.74
5,244.00	4.60	238.70	5,234.17	-122.13	-166.99	-160.67	0.76	0.74	2.74
5,340.00	4.60	238.00	5,329.86	-126.17	-173.54	-167.02	0.06	0.00	-0.73
5,435.00	4.00	238.40	5,424.60	-129.92	-179.60	-172.87	0.63	-0.63	0.42



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Survey

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5,529.00	4.90	235.80	5,518.31	-133.90	-185.71	-178.78	0.98	0.96	-2.77
5,625.00	5.10	236.30	5,613.95	-138.57	-192.65	-185.48	0.21	0.21	0.52
5,720.00	4.70	236.10	5,708.60	-143.08	-199.39	-191.99	0.42	-0.42	-0.21
5,815.00	4.40	236.60	5,803.30	-147.26	-205.67	-198.04	0.32	-0.32	0.53
5,910.00	4.00	232.10	5,898.05	-151.30	-211.32	-203.49	0.55	-0.42	-4.74
6,005.00	3.70	228.00	5,992.83	-155.39	-216.22	-208.17	0.43	-0.32	-4.32
6,100.00	4.00	228.90	6,087.62	-159.62	-220.99	-212.73	0.32	0.32	0.95
6,195.00	4.40	230.50	6,182.36	-164.11	-226.30	-217.81	0.44	0.42	1.68
6,291.00	4.30	244.40	6,278.09	-168.01	-232.39	-223.69	1.10	-0.10	14.48
6,386.00	6.20	235.60	6,372.69	-172.45	-239.83	-230.91	2.17	2.00	-9.26
6,481.00	5.40	231.90	6,467.20	-178.11	-247.58	-238.36	0.93	-0.84	-3.89
6,576.00	4.00	238.40	6,561.88	-182.60	-253.92	-244.47	1.57	-1.47	6.84
6,671.00	4.20	236.50	6,656.63	-186.26	-259.65	-250.00	0.25	0.21	-2.00
6,766.00	5.50	234.70	6,751.29	-190.81	-266.26	-256.39	1.38	1.37	-1.89
6,861.00	5.60	239.60	6,845.85	-195.78	-273.98	-263.84	0.51	0.11	5.16
6,957.00	4.60	224.20	6,941.47	-200.91	-280.70	-270.30	1.76	-1.04	-16.04
7,052.00	3.50	215.70	7,036.23	-206.00	-285.05	-274.39	1.32	-1.16	-8.95
7,147.00	4.00	231.20	7,131.03	-210.43	-289.32	-278.44	1.18	0.53	16.32
7,243.00	5.90	239.80	7,226.67	-215.01	-296.20	-285.07	2.12	1.98	8.96
7,338.00	5.00	250.00	7,321.24	-218.88	-304.31	-292.98	1.39	-0.95	10.74
7,433.00	4.50	241.60	7,415.92	-222.07	-311.48	-299.98	0.90	-0.53	-8.84
7,527.00	4.70	226.40	7,509.62	-226.48	-317.51	-305.78	1.31	0.21	-16.17
7,623.00	4.50	218.20	7,605.31	-232.16	-322.69	-310.67	0.72	-0.21	-8.54
7,718.00	3.90	220.10	7,700.05	-237.56	-327.07	-314.78	0.65	-0.63	2.00
7,813.00	4.00	225.90	7,794.83	-242.33	-331.53	-319.00	0.43	0.11	6.11
7,908.00	3.70	231.00	7,889.61	-246.57	-336.29	-323.54	0.48	-0.32	5.37
8,003.00	2.90	234.70	7,984.46	-249.89	-340.64	-327.71	0.87	-0.84	3.89
8,098.00	1.90	239.80	8,079.37	-252.07	-343.96	-330.92	1.08	-1.05	5.37
8,193.00	0.30	230.00	8,174.35	-253.02	-345.51	-332.43	1.69	-1.68	-10.32
8,288.00	1.30	246.80	8,269.34	-253.60	-346.69	-333.58	1.07	1.05	17.68
8,383.00	1.00	211.30	8,364.32	-254.74	-348.12	-334.94	0.80	-0.32	-37.37
8,479.00	1.60	156.70	8,460.30	-256.68	-348.02	-334.75	1.36	0.63	-56.88
8,574.00	2.10	176.70	8,555.25	-259.64	-347.40	-333.97	0.85	0.53	21.05
8,669.00	1.00	154.00	8,650.22	-262.12	-346.93	-333.39	1.30	-1.16	-23.89
8,764.00	1.10	167.40	8,745.20	-263.76	-346.37	-332.74	0.28	0.11	14.11
8,827.00	1.20	170.70	8,808.19	-265.00	-346.13	-332.44	0.19	0.16	5.24
8,858.00	2.30	107.60	8,839.18	-265.51	-345.49	-331.77	6.64	3.55	-203.55
8,890.00	5.10	95.10	8,871.11	-265.83	-343.46	-329.73	9.05	8.75	-39.06
8,922.00	8.10	92.50	8,902.89	-266.05	-339.79	-326.05	9.42	9.38	-8.13
8,953.00	10.40	89.20	8,933.49	-266.11	-334.81	-321.08	7.61	7.42	-10.65
8,985.00	12.80	87.80	8,964.83	-265.93	-328.37	-314.66	7.55	7.50	-4.38
9,017.00	15.30	86.00	8,995.87	-265.50	-320.62	-306.94	7.93	7.81	-5.63
9,048.00	17.90	86.30	9,025.58	-264.91	-311.78	-298.14	8.39	8.39	0.97



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9,080.00	20.80	87.60	9,055.77	-264.35	-301.20	-287.60	9.16	9.06	4.06
9,112.00	23.70	89.00	9,085.38	-264.00	-289.09	-275.52	9.21	9.06	4.38
9,143.00	26.70	89.70	9,113.43	-263.86	-275.89	-262.35	9.72	9.68	2.26
9,175.00	31.00	87.60	9,141.45	-263.47	-260.46	-246.96	13.80	13.44	-6.56
9,207.00	36.60	89.90	9,168.03	-263.11	-242.67	-229.21	17.95	17.50	7.19
9,238.00	43.00	89.90	9,191.83	-263.08	-222.84	-209.40	20.65	20.65	0.00
9,270.00	49.20	90.70	9,214.01	-263.21	-199.79	-186.38	19.46	19.38	2.50
9,302.00	54.20	90.60	9,233.84	-263.49	-174.69	-161.29	15.63	15.63	-0.31
9,334.00	59.70	88.50	9,251.29	-263.26	-147.88	-134.53	18.04	17.19	-6.56
9,365.00	64.60	87.20	9,265.76	-262.23	-120.50	-107.24	16.24	15.81	-4.19
9,419.00	73.40	88.30	9,285.10	-260.27	-70.18	-57.07	16.41	16.30	2.04
9,451.00	75.30	86.20	9,293.73	-258.79	-39.40	-26.41	8.67	5.94	-6.56
9,482.00	78.00	84.60	9,300.89	-256.36	-9.34	3.49	10.05	8.71	-5.16
9,514.00	82.00	84.10	9,306.44	-253.26	22.01	34.65	12.59	12.50	-1.56
9,545.00	84.60	84.20	9,310.06	-250.12	52.64	65.08	8.39	8.39	0.32
9,577.00	86.00	88.10	9,312.68	-247.98	84.45	96.75	12.91	4.38	12.19
9,609.00	88.10	91.10	9,314.33	-247.76	116.40	128.65	11.43	6.56	9.38
9,672.00	90.20	92.00	9,315.26	-249.47	179.37	191.62	3.63	3.33	1.43
9,767.00	86.10	90.60	9,318.33	-251.62	274.27	286.51	4.56	-4.32	-1.47
9,862.00	87.10	90.90	9,323.97	-252.86	369.10	381.28	1.10	1.05	0.32
9,957.00	88.60	90.40	9,327.53	-253.94	464.02	476.14	1.66	1.58	-0.53
10,052.00	88.10	90.20	9,330.26	-254.44	558.98	571.00	0.57	-0.53	-0.21
10,147.00	89.80	89.90	9,332.01	-254.52	653.96	665.87	1.82	1.79	-0.32
10,242.00	88.10	89.30	9,333.75	-253.86	748.94	760.70	1.90	-1.79	-0.63
10,336.00	90.80	90.40	9,334.65	-253.61	842.92	854.55	3.10	2.87	1.17
10,432.00	90.70	90.40	9,333.39	-254.28	938.91	950.45	0.10	-0.10	0.00
10,526.00	89.00	90.00	9,333.64	-254.61	1,032.91	1,044.35	1.86	-1.81	-0.43
10,621.00	88.50	90.40	9,335.71	-254.94	1,127.88	1,139.22	0.67	-0.53	0.42
10,716.00	88.00	90.40	9,338.61	-255.60	1,222.84	1,234.09	0.53	-0.53	0.00
10,811.00	87.50	91.60	9,342.34	-257.26	1,317.75	1,328.96	1.37	-0.53	1.26
10,905.00	90.80	91.60	9,343.74	-259.88	1,411.69	1,422.92	3.51	3.51	0.00
11,000.00	91.60	93.20	9,341.75	-263.86	1,506.58	1,517.89	1.88	0.84	1.68
11,096.00	89.40	92.00	9,340.91	-268.21	1,602.47	1,613.88	2.61	-2.29	-1.25
11,191.00	88.50	90.00	9,342.65	-269.87	1,697.43	1,708.81	2.31	-0.95	-2.11
11,286.00	88.00	90.60	9,345.55	-270.37	1,792.39	1,803.67	0.82	-0.53	0.63
11,380.00	86.60	89.20	9,349.98	-270.21	1,886.28	1,897.43	2.11	-1.49	-1.49
11,476.00	86.80	87.40	9,355.51	-267.36	1,982.07	1,992.96	1.88	0.21	-1.88
11,571.00	86.80	84.40	9,360.81	-260.58	2,076.67	2,087.10	3.15	0.00	-3.16
11,665.00	86.20	87.10	9,366.55	-253.63	2,170.23	2,180.20	2.94	-0.64	2.87
11,760.00	87.10	83.20	9,372.10	-245.61	2,264.71	2,274.16	4.21	0.95	-4.11
11,854.00	89.60	82.00	9,374.81	-233.51	2,357.87	2,366.60	2.95	2.66	-1.28
11,948.00	93.00	81.80	9,372.68	-220.27	2,450.90	2,458.85	3.62	3.62	-0.21
12,043.00	95.20	83.40	9,365.88	-208.07	2,544.86	2,552.08	2.86	2.32	1.68



Company: Mewbourne Oil
Project: Eddy County, NM (NAD-83)
Site: Boston 7 WOMP Fee
Well: #2H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well #2H
TVD Reference: RKB = 27' @ 3114.00usft (Rig #217)
MD Reference: RKB = 27' @ 3114.00usft (Rig #217)
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)
12,136.00	95.60	86.50	9,357.13	-199.92	2,637.07	2,643.77	3.35	0.43	3.33
12,231.00	94.40	90.20	9,348.85	-197.19	2,731.65	2,738.10	4.08	-1.26	3.89
12,326.00	90.10	96.00	9,345.12	-202.33	2,826.38	2,832.96	7.60	-4.53	6.11
12,421.00	86.40	95.50	9,348.02	-211.84	2,920.84	2,927.78	3.93	-3.89	-0.53
12,516.00	89.00	94.40	9,351.83	-220.03	3,015.40	3,022.63	2.97	2.74	-1.16
12,610.00	90.00	91.80	9,352.65	-225.11	3,109.25	3,116.62	2.96	1.06	-2.77
12,705.00	88.80	91.80	9,353.64	-228.10	3,204.20	3,211.59	1.26	-1.26	0.00
12,800.00	88.30	91.80	9,356.05	-231.08	3,299.12	3,306.55	0.53	-0.53	0.00
12,895.00	89.60	91.80	9,357.79	-234.06	3,394.05	3,401.51	1.37	1.37	0.00
12,990.00	89.50	91.80	9,358.53	-237.05	3,489.00	3,496.49	0.11	-0.11	0.00
13,085.00	89.30	92.00	9,359.53	-240.20	3,583.95	3,591.47	0.30	-0.21	0.21
13,180.00	88.50	90.90	9,361.35	-242.60	3,678.90	3,686.43	1.43	-0.84	-1.16
13,275.00	87.40	90.60	9,364.75	-243.84	3,773.83	3,781.30	1.20	-1.16	-0.32
13,369.00	89.20	89.30	9,367.54	-243.76	3,867.78	3,875.13	2.36	1.91	-1.38
13,464.00	89.50	90.20	9,368.62	-243.35	3,962.77	3,969.98	1.00	0.32	0.95
13,559.00	87.60	87.40	9,371.02	-241.36	4,057.71	4,064.70	3.56	-2.00	-2.95
13,654.00	87.00	86.90	9,375.50	-236.64	4,152.48	4,159.12	0.82	-0.63	-0.53
13,748.00	88.30	87.10	9,379.35	-231.73	4,246.27	4,252.55	1.40	1.38	0.21
13,843.00	91.00	86.00	9,379.93	-226.01	4,341.09	4,346.96	3.07	2.84	-1.16
13,939.00	91.80	85.80	9,377.59	-219.15	4,436.81	4,442.22	0.86	0.83	-0.21
14,034.00	91.50	86.00	9,374.85	-212.36	4,531.53	4,536.48	0.38	-0.32	0.21
14,077.00	90.00	85.60	9,374.29	-209.21	4,574.41	4,579.15	3.61	-3.49	-0.93
14,135.00	90.00	85.60	9,374.29	-204.76	4,632.24	4,636.68	0.00	0.00	0.00

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									
Final Bit Proj. @: 141'	0.00	0.00	9,374.29	-204.76	4,632.24	446,142.24	607,500.84	32.226340	-104.119368
- actual wellpath hits target center									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
539.00	538.40	13.68	11.87	1st Kingsley MWD Svy: 539.00' MD/ 538.40' TVD
14,135.00	9,374.29	-204.76	4,632.24	Projection to Bit: 14135.00' MD/ 9374.29' TVD
14,135.00	9,374.29	-204.76	4,632.24	TD: Y= 446142.24 / X= 607500.84
14,135.00	9,374.29	-204.76	4,632.24	Final Station Closure Distance= 4636.76 / Direction= 92.53
14,135.00	9,374.29	-204.76	4,632.24	TD Lat: 32.226340 / Long: -104.119368

Checked By: _____ Approved By: _____ Date: _____

Kingsley Directional LLC

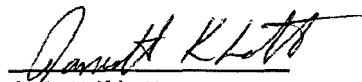


Survey Certification Report

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 November 21, 2017, through December 15, 2017 conduct or supervise the taking of a MWD Survey from the depth of 539 feet to a depth of 14,077 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 Boston 7W0MP Fee #2H well, **API# 30-015-44463** in Eddy County, New Mexico.


Jarrett K Lott

Kingsley Directional LLC

Kingsley Directional LLC

13843 Hwy 105 W Suite 214

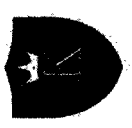
Conroe, TX 77304

(432)556-1960



Project: Eddy County, NM (NAD-83)
Site: Boston 7 WOMP Fee
Well: #2H
Wellbore: OH
Design: Plan #1

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: #2H

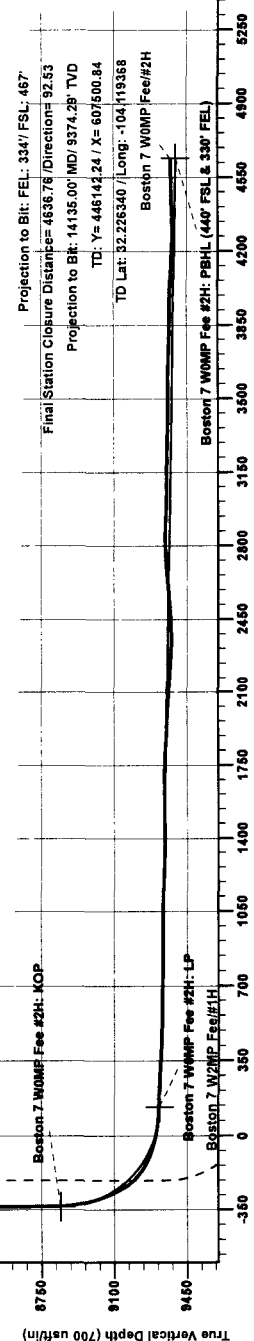
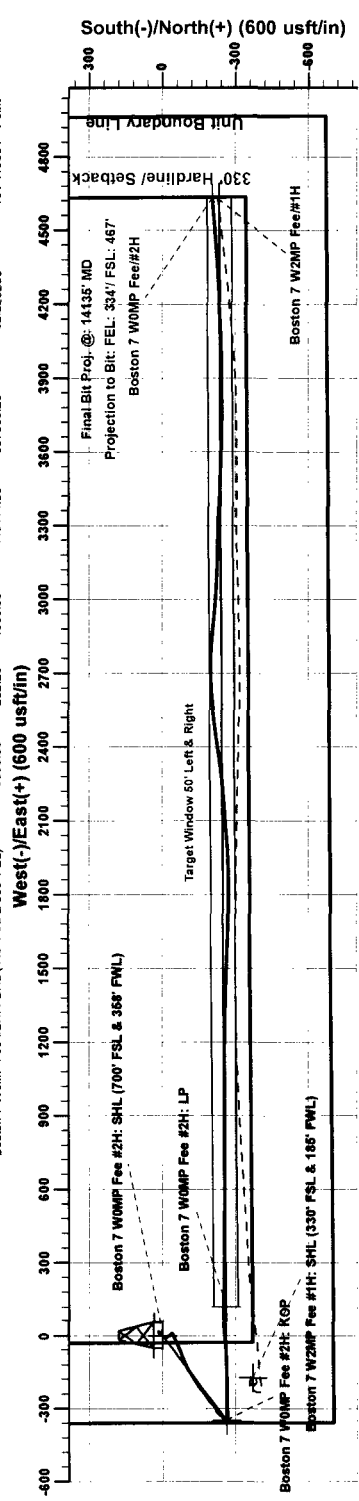
Rig Name: Rig #217
RKB = 27' @ 314.00bath (Rig #217)
Ground Level: 3007.00
Northing: 446347.00
Easting: 602868.60
Latitude: 32.226928
Longitude: -104.134347

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/S	+E/W	Dieg	TFace	VSecl
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00
3	2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00
4	8235.71	4.28	233.00	8235.71	-255.42	-338.98	0.00	21.00	-325.78
5	8515.99	0.00	0.00	8515.99	-261.83	-347.48	1.50	180.00	-333.95
6	8857.60	0.00	0.00	8857.60	-261.83	-347.48	0.00	0.00	-333.95
7	9595.00	0.00	0.00	9595.00	-232.20	-4636.60	0.00	89.06	-462.43
8	14114.55	88.00	88.66	9395.00	-232.20	-4636.60	0.00	0.00	462.43

DESIGN TARGET DETAILS

Name	TVD	+N/S	+E/W	North	East	Latitude	Longitude	Shape
Boston 7 WOMP Fee #2H: SHL (700' FSL & 358' FWL)	0.00	0.00	0.00	446347.00	602868.60	32.226928	-104.134347	Point
Boston 7 WOMP Fee #1H: SHL (700' FSL & 185' FWL)	0.00	-370.78	-172.28	445976.22	602696.34	32.225909	-104.134906	Point
Boston 7 WOMP Fee #2H: KOP	8841.11	-255.42	-338.98	445976.22	602696.34	32.225909	-104.134906	Point
Boston 7 WOMP Fee #2H: LP	9319.00	-255.42	-338.98	445976.22	602696.34	32.225909	-104.134906	Point
Boston 7 WOMP Fee #2H: PBHL (440' FSL & 330' FEL)	9398.00	-232.20	-4636.60	446114.80	607505.20	32.226265	-104.119354	Point



G M
T A
Azimuths to Grid North
True North: -0.11°
Magnetic North: 7.06°
Magnetic Field
Strength: 47836.6snT
Dip Angle: 59.97°
Date: 11/25/2017
Model: IGRF-2015