



LATITUDE
ENERGY PARTNERS

3015-45330

RECEIVED

JAN 13 2020

EMNRD-OCD ARTESIA

Mewbourne Oil Company

Patterson 564

Fuller 13 24 W1KN Fed Com 1H (AEP19128)

2019-06-07 to 2019-07-10

Eddy, New Mexico, US (32.04, -103.94)

Job Type
Directional



ALTITUDE
ENERGY PARTNERS

MWD Survey Certification – Altitude Energy Partners, LLC.

State Of: New Mexico
County Of: Eddy

I, Marcus Spurgin certify that; I am employed by Altitude Energy Partners, LLC.;
that on the day(s) of 06/18/2019 through 07/03/2019, I have
verified the MWD surveys from the depth of 4396 feet to the depth of
18215 feet; that the data is true, correct, complete, and within the limitations of
the tool set forth by Altitude Energy Partners, LLC.; That I am authorized and qualified to
make this report; which was conducted at the request of Mewbourne Oil Company
for the Fuller 13/24 W1KN Fed Com #1H well, A.P.I No. 30-015-45330.

Sincerely,

MARCUS SPURGIN

Marcus Spurgin

Well Planner



MEWBOURNE
OIL COMPANY

Mewbourne Oil Compnay

Eddy Co., NM (NAD 83)
Fuller 13 24 W1KN Fed Com
1H

OH

Design: OH

Standard Survey Report

04 July, 2019



ALTITUDE
ENERGY PARTNERS

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: 1H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28 @ 3028.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28 @ 3028.00usft (Patterson 564)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project: Eddy Co., 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		Fuller 13 24 W1KN Fed Com			
Site Position:		Northing:	379,479.70 usft	Latitude:	32.04265
From:	Map	Easting:	664,065.10 usft	Longitude:	-103.93724
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.21 °

Well	1H					
Well Position	+N/-S	0.00 usft	Northing:	379,478.50 usft	Latitude:	32.042648
	+E/-W	0.00 usft	Easting:	664,035.10 usft	Longitude:	-103.937338
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,000.00 usft

Wellbore		OH			
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/06/19	6.91	59.81	47,601.56990974

Design		OH			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0.00	0.00	0.00	188.24	

Survey Program		Date	07/04/19	
From	To			
(usft)	(usft)	Survey (Wellbore)	Tool Name	Description
100.00	4,333.00	Gyros (OH)	GYRO-MWD	OWSG Gyro MWD
4,396.00	18,215.00	MWD Survey (OH)	MWD	OWSG 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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.10	241.79	100.00	-0.04	-0.08	0.05	0.10	0.10	0.00
200.00	0.26	3.66	200.00	0.14	-0.14	-0.12	0.32	0.16	121.87
300.00	0.26	313.10	300.00	0.53	-0.29	-0.48	0.22	0.00	-50.56
400.00	0.43	35.82	400.00	0.98	-0.24	-0.94	0.47	0.17	82.72
500.00	0.60	28.07	499.99	1.75	0.23	-1.77	0.18	0.17	-7.75
541.00	0.55	32.99	540.99	2.11	0.44	-2.15	0.17	-0.12	12.00
600.00	0.71	8.55	599.99	2.70	0.65	-2.77	0.52	0.27	-41.42
700.00	1.31	37.34	699.97	4.23	1.43	-4.39	0.77	0.60	28.79
800.00	1.43	28.83	799.94	6.23	2.73	-6.55	0.24	0.12	-8.51

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

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)
900.00	1.62	36.51	899.91	8.46	4.17	-8.97	0.28	0.19	7.68
1,000.00	2.25	35.84	999.85	11.18	6.16	-11.95	0.63	0.63	-0.67
1,100.00	2.54	35.30	1,099.76	14.58	8.59	-15.66	0.29	0.29	-0.54
1,200.00	3.02	29.16	1,199.65	18.69	11.15	-20.10	0.56	0.48	-6.14
1,300.00	3.79	38.56	1,299.47	23.58	14.50	-25.41	0.95	0.77	9.40
1,400.00	4.25	34.91	1,399.22	29.20	18.68	-31.58	0.53	0.46	-3.65
1,500.00	4.62	38.85	1,498.92	35.38	23.32	-38.35	0.48	0.37	3.94
1,600.00	4.42	42.72	1,598.61	41.34	28.47	-45.00	0.36	-0.20	3.87
1,700.00	4.04	51.94	1,698.34	46.35	33.85	-50.72	0.78	-0.38	9.22
1,800.00	3.38	53.01	1,798.13	50.29	38.98	-55.36	0.66	-0.66	1.07
1,900.00	3.47	56.90	1,897.95	53.72	43.87	-59.45	0.25	0.09	3.89
2,000.00	3.91	64.87	1,997.75	56.82	49.49	-63.33	0.67	0.44	7.97
2,100.00	4.44	64.86	2,097.48	59.91	56.08	-67.33	0.53	0.53	-0.01
2,200.00	5.83	67.60	2,197.08	63.49	64.28	-72.05	1.41	1.39	2.74
2,300.00	7.37	70.79	2,296.41	67.54	75.04	-77.59	1.58	1.54	3.19
2,400.00	8.70	73.39	2,395.43	71.81	88.34	-83.73	1.38	1.33	2.60
2,500.00	9.58	76.16	2,494.16	75.96	103.67	-90.04	0.98	0.88	2.77
2,600.00	10.29	79.35	2,592.66	79.60	120.53	-96.06	0.90	0.71	3.19
2,700.00	10.96	82.20	2,690.94	82.54	138.72	-101.57	0.85	0.67	2.85
2,800.00	11.47	85.69	2,789.03	84.58	158.06	-106.36	0.85	0.51	3.49
2,900.00	12.11	88.10	2,886.93	85.68	178.46	-110.37	0.81	0.64	2.41
3,000.00	12.77	89.92	2,984.58	86.04	199.99	-113.81	0.77	0.66	1.82
3,100.00	13.10	92.01	3,082.04	85.66	222.37	-116.64	0.57	0.33	2.09
3,200.00	13.48	93.91	3,179.36	84.47	245.32	-118.75	0.58	0.38	1.90
3,300.00	13.64	95.21	3,276.58	82.60	268.69	-120.26	0.34	0.16	1.30
3,400.00	13.78	96.10	3,373.73	80.26	292.28	-121.32	0.25	0.14	0.89
3,500.00	14.43	96.76	3,470.71	77.53	316.49	-122.09	0.67	0.65	0.66
3,600.00	15.21	97.63	3,567.38	74.32	341.87	-122.55	0.81	0.78	0.87
3,700.00	15.77	98.30	3,663.75	70.62	368.32	-122.68	0.59	0.56	0.67
3,800.00	16.19	98.72	3,759.89	66.54	395.54	-122.55	0.44	0.42	0.42
3,900.00	16.34	99.68	3,855.88	62.07	423.19	-122.08	0.31	0.15	0.96
4,000.00	16.54	100.81	3,951.80	57.03	451.04	-121.08	0.38	0.20	1.13
4,100.00	16.76	101.18	4,047.60	51.57	479.17	-119.71	0.24	0.22	0.37
4,200.00	17.43	102.03	4,143.18	45.65	507.96	-117.98	0.72	0.67	0.85
4,300.00	16.92	101.98	4,238.73	39.51	536.84	-116.04	0.51	-0.51	-0.05
4,333.00	15.81	103.13	4,270.39	37.49	545.92	-115.34	3.50	-3.36	3.48
4,396.00	14.68	102.61	4,331.17	33.80	562.07	-114.00	1.81	-1.79	-0.83
4,583.00	12.24	102.00	4,513.02	24.50	604.59	-110.90	1.31	-1.30	-0.33
4,769.00	7.85	105.05	4,696.13	17.10	636.15	-108.10	2.38	-2.36	1.64
4,955.00	2.86	194.80	4,881.47	9.30	647.25	-101.97	4.48	-2.68	48.25
5,141.00	5.37	250.87	5,067.03	1.96	637.84	-93.35	2.40	1.35	30.15
5,327.00	6.55	254.90	5,252.03	-3.66	619.37	-85.15	0.67	0.63	2.17
5,512.00	6.13	254.00	5,435.90	-9.13	599.69	-76.91	0.23	-0.23	-0.49

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Site:	Fuller 13.24 W1KN Fed Com	MD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1: Single User Db

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)
5,698.00	8.78	250.74	5,620.31	-16.55	576.74	-66.28	1.44	1.42	-1.75
5,884.00	10.20	258.78	5,803.77	-24.44	547.18	-54.24	1.04	0.76	4.32
6,071.00	10.00	256.05	5,987.87	-31.57	515.18	-42.59	0.28	-0.11	-1.46
6,257.00	10.39	255.32	6,170.93	-39.72	483.29	-29.96	0.22	0.21	-0.39
6,443.00	10.98	253.03	6,353.71	-49.14	450.12	-15.88	0.39	0.32	-1.23
6,630.00	10.93	258.79	6,537.30	-57.78	415.69	-2.39	0.59	-0.03	3.08
6,816.00	9.21	258.00	6,720.43	-64.31	383.83	8.63	0.93	-0.92	-0.42
7,002.00	7.98	255.62	6,904.34	-70.61	356.77	18.75	0.69	-0.66	-1.28
7,187.00	6.43	252.35	7,087.87	-76.94	334.46	28.21	0.87	-0.84	-1.77
7,373.00	7.40	260.52	7,272.52	-82.07	312.72	36.40	0.74	0.52	4.39
7,559.00	7.45	256.58	7,456.97	-86.84	289.17	44.50	0.28	0.03	-2.12
7,744.00	7.43	263.00	7,640.41	-91.08	265.63	52.07	0.45	-0.01	3.47
7,930.00	6.12	254.84	7,825.11	-95.14	244.12	59.17	0.87	-0.70	-4.39
8,115.00	8.34	250.38	8,008.63	-102.23	221.97	69.36	1.24	1.20	-2.41
8,302.00	8.96	255.73	8,193.51	-110.37	195.08	81.27	0.54	0.33	2.86
8,488.00	10.01	252.84	8,376.96	-118.71	165.59	93.75	0.62	0.56	-1.55
8,674.00	10.22	254.75	8,560.07	-127.82	134.23	107.26	0.21	0.11	1.03
8,861.00	9.09	251.52	8,744.42	-136.87	104.21	120.52	0.67	-0.60	-1.73
9,048.00	9.99	256.67	8,928.84	-145.29	74.42	133.12	0.66	0.48	2.75
9,233.00	9.87	257.21	9,111.07	-152.50	43.34	144.71	0.08	-0.06	0.29
9,420.00	9.19	258.99	9,295.48	-158.90	13.05	155.39	0.40	-0.36	0.95
9,606.00	8.91	254.70	9,479.17	-165.53	-15.42	166.04	0.39	-0.15	-2.31
9,793.00	5.78	248.17	9,664.62	-172.86	-38.14	176.54	1.73	-1.67	-3.49
9,837.00	5.33	246.93	9,708.41	-174.48	-42.07	178.71	1.06	-1.02	-2.82
9,935.00	8.53	231.03	9,805.69	-180.84	-51.91	186.41	3.78	3.27	-16.22
9,966.00	12.37	230.00	9,836.17	-184.42	-56.25	190.58	12.40	12.39	-3.32
9,997.00	16.55	230.28	9,866.18	-189.38	-62.19	196.34	13.49	13.48	0.90
10,028.00	20.34	227.10	9,895.58	-195.87	-69.54	203.82	12.64	12.23	-10.26
10,059.00	24.86	224.51	9,924.20	-204.19	-78.05	213.27	14.93	14.58	-8.35
10,091.00	28.65	222.96	9,952.77	-214.61	-88.00	225.00	12.04	11.84	-4.84
10,122.00	31.27	223.12	9,979.62	-225.92	-98.57	237.71	8.46	8.45	0.52
10,153.00	33.28	224.24	10,005.83	-237.89	-110.00	251.20	6.76	6.48	3.61
10,184.00	35.93	223.76	10,031.34	-250.55	-122.23	265.48	8.59	8.55	-1.55
10,215.00	39.10	223.58	10,055.93	-264.21	-135.26	280.86	10.23	10.23	-0.58
10,246.00	42.13	223.97	10,079.46	-278.77	-149.22	297.28	9.81	9.77	1.26
10,277.00	44.86	223.82	10,101.95	-294.15	-164.01	314.62	8.81	8.81	-0.48
10,308.00	46.44	223.05	10,123.61	-310.25	-179.25	332.73	5.40	5.10	-2.48
10,339.00	47.97	222.22	10,144.68	-326.98	-194.66	351.50	5.31	4.94	-2.68
10,371.00	50.42	222.28	10,165.59	-344.91	-210.94	371.58	7.66	7.66	0.19
10,402.00	53.47	221.59	10,184.69	-363.07	-227.25	391.89	9.99	9.84	-2.23
10,433.00	57.14	222.93	10,202.33	-381.92	-244.39	413.01	12.36	11.84	4.32
10,464.00	59.66	223.40	10,218.58	-401.18	-262.46	434.65	8.23	8.13	1.52
10,495.00	62.08	223.50	10,233.67	-420.84	-281.08	456.78	7.81	7.81	0.32

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well: 1H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Site:	Fuller 13-24 W1KN Fed Com	MD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Well:	1H	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)
10,526.00	64.24	222.56	10,247.66	-441.06	-299.95	479.49	7.47	6.97	-3.03
10,557.00	67.28	222.11	10,260.39	-461.95	-318.98	502.90	9.90	9.81	-1.45
10,588.00	70.02	222.14	10,271.67	-483.36	-338.35	526.86	8.84	8.84	0.10
10,655.00	76.25	218.77	10,291.11	-532.14	-379.90	581.09	10.47	9.30	-5.03
10,686.00	78.80	218.22	10,297.80	-555.83	-398.74	607.24	8.41	8.23	-1.77
10,717.00	79.77	217.05	10,303.57	-579.95	-417.34	633.77	4.85	3.13	-3.77
10,748.00	80.34	216.67	10,308.92	-604.38	-435.65	660.58	2.20	1.84	-1.23
10,779.00	80.68	216.29	10,314.03	-628.96	-453.83	687.51	1.63	1.10	-1.23
10,811.00	81.76	216.48	10,318.92	-654.42	-472.59	715.40	3.43	3.38	0.59
10,842.00	84.58	216.52	10,322.60	-679.16	-490.90	742.51	9.10	9.10	0.13
10,873.00	86.13	216.12	10,325.11	-704.06	-509.20	769.77	5.16	5.00	-1.29
10,904.00	86.63	216.53	10,327.07	-728.98	-527.52	797.06	2.08	1.61	1.32
10,935.00	87.28	214.61	10,328.72	-754.16	-545.53	824.56	6.53	2.10	-6.19
10,966.00	88.09	212.55	10,329.97	-779.97	-562.66	852.55	7.14	2.61	-6.65
11,029.00	88.68	209.43	10,331.75	-833.94	-595.08	910.62	5.04	0.94	-4.95
11,122.00	88.85	206.28	10,333.75	-916.14	-638.52	998.19	3.39	0.18	-3.39
11,215.00	91.37	206.97	10,333.57	-999.27	-680.19	1,086.44	2.81	2.71	0.74
11,308.00	89.64	203.57	10,332.75	-1,083.35	-719.89	1,175.34	4.10	-1.86	-3.66
11,402.00	89.50	203.36	10,333.46	-1,169.58	-757.31	1,266.04	0.27	-0.15	-0.22
11,495.00	89.02	202.80	10,334.66	-1,255.12	-793.77	1,355.93	0.79	-0.52	-0.60
11,589.00	87.11	201.39	10,337.83	-1,342.16	-829.10	1,447.14	2.53	-2.03	-1.50
11,682.00	90.20	202.48	10,340.01	-1,428.40	-863.83	1,537.45	3.52	3.32	1.17
11,777.00	89.24	200.58	10,340.48	-1,516.76	-898.69	1,629.90	2.24	-1.01	-2.00
11,870.00	91.06	199.46	10,340.24	-1,604.14	-930.53	1,720.94	2.30	1.96	-1.20
11,963.00	90.78	201.03	10,338.74	-1,691.38	-962.70	1,811.89	1.71	-0.30	1.69
12,055.00	93.45	198.69	10,335.35	-1,777.83	-993.93	1,901.93	3.86	2.90	-2.54
12,150.00	92.80	196.18	10,330.17	-1,868.33	-1,022.35	1,995.56	2.73	-0.68	-2.64
12,243.00	89.61	191.46	10,328.21	-1,958.58	-1,044.55	2,088.06	6.12	-3.43	-5.08
12,336.00	85.62	189.58	10,332.08	-2,049.91	-1,061.51	2,180.88	4.74	-4.29	-2.02
12,429.00	89.89	188.50	10,335.72	-2,141.66	-1,076.11	2,273.78	4.74	4.59	-1.16
12,525.00	92.97	187.83	10,333.33	-2,236.65	-1,089.74	2,369.74	3.28	3.21	-0.70
12,619.00	92.66	184.23	10,328.71	-2,330.00	-1,099.60	2,463.54	3.84	-0.33	-3.83
12,713.00	91.54	180.84	10,325.26	-2,423.83	-1,103.75	2,557.00	3.80	-1.19	-3.61
12,805.00	89.64	179.40	10,324.32	-2,515.82	-1,103.95	2,648.06	2.59	-2.07	-1.57
12,899.00	89.64	179.09	10,324.91	-2,609.81	-1,102.71	2,740.91	0.33	0.00	-0.33
12,992.00	90.48	179.63	10,324.81	-2,702.80	-1,101.67	2,832.79	1.07	0.90	0.58
13,085.00	89.50	179.33	10,324.83	-2,795.80	-1,100.82	2,924.70	1.10	-1.05	-0.32
13,179.00	89.24	178.49	10,325.86	-2,889.77	-1,099.04	3,017.45	0.94	-0.28	-0.89
13,270.00	89.86	178.72	10,326.57	-2,980.74	-1,096.82	3,107.17	0.73	0.68	0.25
13,361.00	89.89	178.86	10,326.77	-3,071.72	-1,094.90	3,196.93	0.16	0.03	0.15
13,453.00	89.47	178.59	10,327.29	-3,163.70	-1,092.85	3,287.66	0.54	-0.46	-0.29
13,546.00	88.82	179.50	10,328.67	-3,256.67	-1,091.30	3,379.46	1.20	-0.70	0.98
13,639.00	90.00	179.50	10,329.63	-3,349.66	-1,090.49	3,471.37	1.27	1.27	0.00
13,733.00	89.33	178.22	10,330.18	-3,443.64	-1,088.62	3,564.11	1.54	-0.71	-1.36

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Site:	Fuller 13.24 W1KN Fed Com	MD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Well:	1H	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)
13,826.00	88.68	179.28	10,331.80	-3,536.60	-1,086.59	3,655.82	1.34	-0.70	1.14
13,919.00	87.45	181.35	10,334.94	-3,629.54	-1,087.10	3,747.87	2.59	-1.32	2.23
14,012.00	89.02	183.53	10,337.80	-3,722.40	-1,091.06	3,840.35	2.89	1.69	2.34
14,105.00	87.50	182.67	10,340.63	-3,815.22	-1,096.09	3,932.92	1.88	-1.63	-0.92
14,198.00	92.44	184.56	10,340.67	-3,908.00	-1,101.95	4,025.59	5.69	5.31	2.03
14,291.00	92.33	182.12	10,336.80	-4,000.76	-1,107.36	4,118.16	2.62	-0.12	-2.62
14,384.00	92.61	180.31	10,332.80	-4,093.65	-1,109.33	4,210.37	1.97	0.30	-1.95
14,477.00	90.56	180.57	10,330.22	-4,186.60	-1,110.05	4,302.47	2.22	-2.20	0.28
14,570.00	90.06	179.62	10,329.72	-4,279.60	-1,110.20	4,394.53	1.15	-0.54	-1.02
14,663.00	90.00	180.48	10,329.67	-4,372.60	-1,110.28	4,486.58	0.93	-0.06	0.92
14,756.00	89.86	179.64	10,329.78	-4,465.60	-1,110.38	4,578.64	0.92	-0.15	-0.90
14,848.00	89.47	180.21	10,330.32	-4,557.60	-1,110.26	4,669.67	0.75	-0.42	0.62
14,941.00	89.47	181.88	10,331.18	-4,650.57	-1,111.96	4,761.93	1.80	0.00	1.80
15,035.00	90.73	180.10	10,331.02	-4,744.55	-1,113.58	4,855.17	2.32	1.34	-1.89
15,128.00	89.36	180.69	10,330.95	-4,837.55	-1,114.22	4,947.30	1.60	-1.47	0.63
15,221.00	90.73	179.96	10,330.87	-4,930.54	-1,114.75	5,039.41	1.67	1.47	-0.78
15,314.00	90.73	180.20	10,329.69	-5,023.54	-1,114.88	5,131.46	0.26	0.00	0.26
15,407.00	90.59	181.21	10,328.62	-5,116.52	-1,116.02	5,223.65	1.10	-0.15	1.09
15,500.00	90.64	180.23	10,327.62	-5,209.51	-1,117.19	5,315.84	1.06	0.05	-1.05
15,593.00	90.39	180.87	10,326.78	-5,302.50	-1,118.08	5,408.00	0.74	-0.27	0.69
15,686.00	90.59	181.01	10,325.99	-5,395.48	-1,119.61	5,500.24	0.26	0.22	0.15
15,781.00	90.59	180.02	10,325.01	-5,490.47	-1,120.46	5,594.38	1.04	0.00	-1.04
15,874.00	90.34	180.36	10,324.25	-5,583.47	-1,120.77	5,686.46	0.45	-0.27	0.37
15,968.00	90.39	181.33	10,323.66	-5,677.46	-1,122.16	5,779.67	1.03	0.05	1.03
16,061.00	90.53	180.57	10,322.91	-5,770.44	-1,123.70	5,871.92	0.83	0.15	-0.82
16,155.00	90.62	181.12	10,321.97	-5,864.42	-1,125.09	5,965.13	0.59	0.10	0.59
16,248.00	91.15	180.30	10,320.53	-5,957.40	-1,126.24	6,057.32	1.05	0.57	-0.88
16,341.00	90.42	180.47	10,319.25	-6,050.39	-1,126.86	6,149.43	0.81	-0.78	0.18
16,434.00	90.28	181.67	10,318.69	-6,143.37	-1,128.60	6,241.70	1.30	-0.15	1.29
16,528.00	91.04	181.22	10,317.60	-6,237.34	-1,130.97	6,335.04	0.94	0.81	-0.48
16,621.00	90.14	180.28	10,316.65	-6,330.32	-1,132.19	6,427.23	1.40	-0.97	-1.01
16,714.00	90.36	181.43	10,316.24	-6,423.31	-1,133.57	6,519.46	1.26	0.24	1.24
16,808.00	90.34	181.33	10,315.67	-6,517.28	-1,135.84	6,612.79	0.11	-0.02	-0.11
16,901.00	91.34	181.43	10,314.30	-6,610.24	-1,138.08	6,705.11	1.08	1.08	0.11
16,994.00	89.75	179.72	10,313.42	-6,703.23	-1,139.01	6,797.27	2.51	-1.71	-1.84
17,088.00	89.61	181.04	10,313.94	-6,797.22	-1,139.63	6,890.38	1.41	-0.15	1.40
17,181.00	90.59	180.87	10,313.78	-6,890.21	-1,141.18	6,982.63	1.07	1.05	-0.18
17,274.00	88.12	179.84	10,314.83	-6,983.19	-1,141.76	7,074.74	2.88	-2.66	-1.11
17,368.00	89.47	181.78	10,316.80	-7,077.15	-1,143.09	7,167.92	2.51	1.44	2.06
17,461.00	90.56	180.81	10,316.78	-7,170.13	-1,145.19	7,260.23	1.57	1.17	-1.04
17,554.00	89.36	181.44	10,316.85	-7,263.11	-1,147.02	7,352.52	1.46	-1.29	0.68
17,647.00	89.52	181.77	10,317.75	-7,356.07	-1,149.62	7,444.89	0.39	0.17	0.35
17,741.00	90.22	181.40	10,317.97	-7,450.03	-1,152.22	7,538.25	0.84	0.74	-0.39

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3028.00usft (Patterson 564)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000:1 Single User Db

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)
17,834.00	90.62	179.10	10,317.29	-7,543.02	-1,152.63	7,630.34	2.51	0.43	-2.47
17,928.00	89.64	177.75	10,317.07	-7,636.98	-1,150.04	7,722.96	1.77	-1.04	-1.44
18,022.00	89.22	178.22	10,318.01	-7,730.92	-1,146.74	7,815.46	0.67	-0.45	0.50
18,114.00	89.44	178.86	10,319.08	-7,822.88	-1,144.40	7,906.13	0.74	0.24	0.70
18,173.00	89.94	178.60	10,319.40	-7,881.86	-1,143.09	7,964.32	0.96	0.85	-0.44
Last MWD Survey @ 18173'									
18,215.00	89.94	178.60	10,319.45	-7,923.85	-1,142.06	8,005.73	0.00	0.00	0.00
PTB @ 18215'									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,173.00	10,319.40	-7,881.86	-1,143.09	Last MWD Survey @ 18173'
18,215.00	10,319.45	-7,923.85	-1,142.06	PTB @ 18215'

Checked By: _____	Approved By: _____	Date: _____
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