

30015-45331



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JAN 13 2020

EMNRD-OCD ARTESIA

Mewbourne Oil Company

Patterson 564

Fuller 13 24 W1KN Fed Com 2H (AEP19110)

2019-05-16 to 2019-06-13

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 05/19/2019 through 06/06/2019, I have
verified the MWD surveys from the depth of 672 feet to the depth of
18195 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 #2H well, A.P.I No. 30-015-45331.

Sincerely,

MARCUS SPURGIN

Marcus Spurgin

Well Planner



MEWBOURNE
OIL COMPANY

Mewbourne Oil Compnay

Eddy Co., NM (NAD 83)
Fuller 13 24 W1KN Fed Com
2H

OH

Design: OH

Standard Survey Report

10 June, 2019



L T I T U D E
ENERGY PARTNERS

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Well:	2H	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: 32.042651
From:	Map	Easting:	664,065.10 usft	Longitude: -103.937241
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence: 0.21 °

Well	2H			
Well Position	+N/-S	0.00 usft	Northing: 379,479.70 usft	Latitude: 32.042651
	+E/-W	0.00 usft	Easting: 664,065.10 usft	Longitude: -103.937241
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft	Ground Level: 3,003.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	05/03/19	6.91	59.81	47,602.40078099

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	182.77

Survey Program	Date	06/10/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	18,195.00	MWD Survey (OH)	MWD	OWSG 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)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.09	96.14	100.00	-0.01	0.08	0.00	0.09	0.09	0.00	
200.00	0.22	235.54	200.00	-0.13	0.00	0.13	0.29	0.13	139.40	
300.00	0.25	313.63	300.00	-0.08	-0.32	0.10	0.30	0.03	78.09	
400.00	0.04	161.11	400.00	0.03	-0.46	-0.01	0.29	-0.21	-152.52	
500.00	0.36	299.54	500.00	0.16	-0.73	-0.12	0.39	0.32	138.43	
524.00	0.20	160.45	524.00	0.15	-0.78	-0.12	2.20	-0.67	-579.54	
672.00	0.98	20.47	671.99	1.10	-0.25	-1.08	0.77	0.53	-94.58	
765.00	0.92	61.71	764.98	2.19	0.69	-2.23	0.72	-0.06	44.34	
857.00	0.84	5.06	856.97	3.22	1.40	-3.28	0.91	-0.09	-61.58	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Site:	Fuller 13'24 W1KN Fed Corn	MD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Well:	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)	
950.00	1.36	4.10	949.95	5.00	1.54	-5.06	0.56	0.56	-1.03	
1,043.00	1.43	352.77	1,042.93	7.25	1.47	-7.31	0.31	0.08	-12.18	
1,136.00	1.35	346.67	1,135.90	9.47	1.07	-9.51	0.18	-0.09	-6.56	
1,230.00	1.97	317.86	1,229.86	11.74	-0.27	-11.71	1.09	0.66	-30.65	
1,414.00	3.24	305.74	1,413.67	17.12	-6.61	-16.78	0.75	0.69	-6.59	
1,600.00	2.15	283.24	1,599.46	20.99	-14.28	-20.28	0.81	-0.59	-12.10	
1,786.00	3.73	252.92	1,785.22	20.02	-23.46	-18.86	1.16	0.85	-16.30	
1,974.00	3.77	235.21	1,972.83	14.69	-34.38	-13.01	0.61	0.02	-9.42	
2,159.00	2.24	221.58	2,157.57	8.52	-41.77	-6.49	0.91	-0.83	-7.37	
2,345.00	1.61	249.62	2,343.47	4.89	-46.63	-2.63	0.60	-0.34	15.08	
2,530.00	1.55	279.98	2,528.40	4.42	-51.54	-1.92	0.45	-0.03	16.41	
2,716.00	2.48	265.60	2,714.29	4.54	-58.03	-1.73	0.57	0.50	-7.73	
2,901.00	1.55	240.55	2,899.17	3.01	-64.20	0.10	0.68	-0.50	-13.54	
3,087.00	1.48	257.35	3,085.11	1.24	-68.73	2.08	0.24	-0.04	9.03	
3,274.00	2.56	257.54	3,271.99	-0.19	-75.16	3.82	0.58	0.58	0.10	
3,459.00	2.85	257.33	3,456.78	-2.09	-83.69	6.13	0.16	0.16	-0.11	
3,645.00	2.72	258.18	3,642.56	-4.00	-92.52	8.47	0.07	-0.07	0.46	
3,831.00	2.48	263.05	3,828.37	-5.40	-100.83	10.26	0.18	-0.13	2.62	
4,015.00	3.06	259.98	4,012.16	-6.73	-109.62	12.02	0.33	0.32	-1.67	
4,201.00	3.12	264.86	4,197.89	-8.05	-119.55	13.82	0.15	0.03	2.62	
4,270.00	3.29	260.38	4,266.78	-8.55	-123.37	14.50	0.44	0.25	-6.49	
4,400.00	3.73	269.00	4,396.53	-9.24	-131.28	15.58	0.53	0.34	6.63	
4,587.00	4.90	276.46	4,583.00	-8.45	-145.30	15.46	0.69	0.63	3.99	
4,773.00	5.18	270.12	4,768.28	-7.54	-161.59	15.34	0.33	0.15	-3.41	
4,958.00	5.77	262.37	4,952.44	-8.76	-179.15	17.41	0.51	0.32	-4.19	
5,144.00	5.64	258.22	5,137.52	-11.87	-197.37	21.39	0.23	-0.07	-2.23	
5,330.00	4.29	263.30	5,322.82	-14.54	-213.23	24.83	0.76	-0.73	2.73	
5,516.00	3.85	259.10	5,508.35	-16.54	-226.27	27.45	0.29	-0.24	-2.26	
5,702.00	3.96	261.50	5,693.92	-18.67	-238.75	30.18	0.11	0.06	1.29	
5,888.00	3.83	267.05	5,879.49	-19.94	-251.31	32.06	0.21	-0.07	2.98	
6,075.00	3.32	266.09	6,066.13	-20.63	-262.95	33.31	0.27	-0.27	-0.51	
6,260.00	4.64	271.10	6,250.68	-20.85	-275.77	34.15	0.74	0.71	2.71	
6,447.00	4.79	267.55	6,437.04	-21.04	-291.14	35.08	0.18	0.08	-1.90	
6,633.00	3.65	265.77	6,622.54	-21.80	-304.80	36.51	0.62	-0.61	-0.96	
6,820.00	3.68	261.54	6,809.16	-23.13	-316.67	38.40	0.15	0.02	-2.26	
7,006.00	3.30	263.45	6,994.81	-24.62	-327.89	40.43	0.21	-0.20	1.03	
7,191.00	2.89	282.02	7,179.54	-24.25	-337.75	40.55	0.58	-0.22	10.04	
7,377.00	2.06	351.48	7,365.41	-19.97	-342.83	36.51	1.56	-0.45	37.34	
7,563.00	2.55	313.59	7,551.26	-13.81	-346.32	30.53	0.84	0.26	-20.37	
7,748.00	2.35	285.69	7,736.10	-9.95	-352.95	26.99	0.65	-0.11	-15.08	
7,933.00	2.90	267.98	7,920.91	-9.08	-361.28	26.53	0.53	0.30	-9.57	
8,119.00	1.92	255.72	8,106.74	-10.02	-369.00	27.84	0.59	-0.53	-6.59	
8,306.00	0.93	255.30	8,293.68	-11.18	-373.51	29.21	0.53	-0.53	-0.22	
8,492.00	1.43	291.09	8,479.65	-10.72	-377.13	28.94	0.47	0.27	19.24	

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Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Well:	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)
8,678.00	0.55	203.12	8,665.62	-10.71	-379.65	29.05	0.81	-0.47	-47.30
8,864.00	1.55	151.97	8,851.59	-13.75	-378.82	32.04	0.69	0.54	-27.50
9,051.00	1.77	181.93	9,038.52	-18.87	-377.73	37.10	0.47	0.12	16.02
9,237.00	2.21	175.19	9,224.41	-25.32	-377.52	43.53	0.27	0.24	-3.62
9,424.00	1.55	177.15	9,411.30	-31.43	-377.09	49.62	0.35	-0.35	1.05
9,610.00	1.40	212.83	9,597.25	-35.86	-378.20	54.09	0.49	-0.08	19.18
9,796.00	1.53	217.86	9,783.19	-39.73	-380.96	58.09	0.10	0.07	2.70
9,980.00	2.00	211.61	9,967.10	-44.40	-384.15	62.91	0.28	0.26	-3.40
10,022.00	1.92	201.67	10,009.07	-45.68	-384.79	64.22	0.83	-0.19	-23.67
10,053.00	4.65	181.68	10,040.02	-47.42	-385.02	65.97	9.42	8.81	-64.48
10,084.00	7.71	175.59	10,070.84	-50.75	-384.90	69.29	10.08	9.87	-19.65
10,115.00	10.62	175.88	10,101.44	-55.67	-384.53	74.19	9.39	9.39	0.94
10,146.00	13.14	175.47	10,131.77	-62.03	-384.05	80.52	8.13	8.13	-1.32
10,177.00	16.28	176.69	10,161.75	-69.89	-383.52	88.34	10.18	10.13	3.94
10,208.00	19.62	175.82	10,191.24	-79.42	-382.89	97.83	10.81	10.77	-2.81
10,239.00	22.50	176.01	10,220.17	-90.53	-382.10	108.89	9.29	9.29	0.61
10,270.00	25.48	176.07	10,248.48	-103.10	-381.23	121.40	9.61	9.61	0.19
10,301.00	28.53	176.38	10,276.10	-117.14	-380.30	135.39	9.85	9.84	1.00
10,333.00	29.96	176.79	10,304.02	-132.75	-379.37	150.93	4.51	4.47	1.28
10,364.00	31.95	174.97	10,330.61	-148.65	-378.22	166.76	7.09	6.42	-5.87
10,395.00	34.69	174.20	10,356.51	-165.60	-376.61	183.61	8.94	8.84	-2.48
10,426.00	38.11	174.70	10,381.46	-183.91	-374.83	201.81	11.07	11.03	1.61
10,457.00	41.56	174.07	10,405.26	-203.67	-372.89	221.45	11.20	11.13	-2.03
10,488.00	44.87	174.10	10,427.85	-224.78	-370.70	242.43	10.68	10.68	0.10
10,519.00	48.35	175.16	10,449.14	-247.20	-368.60	264.73	11.50	11.23	3.42
10,550.00	52.05	176.18	10,468.98	-270.95	-366.80	288.36	12.20	11.94	3.29
10,581.00	55.62	175.24	10,487.27	-295.90	-364.93	313.19	11.77	11.52	-3.03
10,612.00	59.21	176.69	10,503.96	-321.95	-363.10	339.12	12.23	11.58	4.68
10,643.00	62.00	178.31	10,519.18	-348.93	-361.92	366.01	10.09	9.00	5.23
10,674.00	65.59	179.64	10,532.87	-376.73	-361.43	393.76	12.20	11.58	4.29
10,705.00	68.99	181.95	10,544.83	-405.32	-361.84	422.33	12.94	10.97	7.45
10,750.00	73.62	183.90	10,559.25	-447.88	-364.02	464.95	11.08	10.29	4.33
10,781.00	76.78	183.99	10,567.17	-477.77	-366.08	494.91	10.20	10.19	0.29
10,812.00	80.05	184.39	10,573.40	-508.06	-368.30	525.26	10.62	10.55	1.29
10,844.00	81.34	184.81	10,578.57	-539.53	-370.83	556.82	4.23	4.03	1.31
10,875.00	81.76	184.09	10,583.13	-570.10	-373.21	587.47	2.67	1.35	-2.32
10,906.00	82.86	181.42	10,587.28	-600.79	-374.69	618.19	9.24	3.55	-8.61
10,937.00	84.97	180.00	10,590.56	-631.61	-375.07	648.99	8.19	6.81	-4.58
10,968.00	86.89	179.02	10,592.76	-662.53	-374.80	679.86	6.95	6.19	-3.16
10,999.00	87.03	178.56	10,594.41	-693.48	-374.15	710.75	1.55	0.45	-1.48
11,030.00	86.83	179.63	10,596.07	-724.43	-373.66	741.64	3.51	-0.65	3.45
11,061.00	90.08	180.67	10,596.90	-755.41	-373.74	772.59	11.01	10.48	3.35
11,123.00	90.73	180.22	10,596.46	-817.41	-374.23	834.54	1.28	1.05	-0.73

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Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
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Survey									
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11,217.00	89.27	178.16	10,596.46	-911.39	-372.90	928.35	2.69	-1.55	-2.19
11,310.00	92.38	181.51	10,595.12	-1,004.35	-372.63	1,021.19	4.91	3.34	3.60
11,403.00	93.22	181.34	10,590.58	-1,097.21	-374.94	1,114.05	0.92	0.90	-0.18
11,497.00	93.03	180.79	10,585.46	-1,191.06	-376.68	1,207.87	0.62	-0.20	-0.59
11,590.00	88.85	180.40	10,583.93	-1,284.02	-377.65	1,300.77	4.51	-4.49	-0.42
11,684.00	90.64	187.89	10,584.35	-1,377.70	-384.44	1,394.67	8.19	1.90	7.97
11,778.00	89.80	190.25	10,583.99	-1,470.52	-399.25	1,488.10	2.66	-0.89	2.51
11,871.00	88.15	189.46	10,585.65	-1,562.13	-415.17	1,580.37	1.97	-1.77	-0.85
11,965.00	89.52	183.42	10,587.57	-1,655.47	-425.70	1,674.11	6.59	1.46	-6.43
12,057.00	88.57	180.50	10,589.10	-1,747.39	-428.85	1,766.08	3.34	-1.03	-3.17
12,151.00	85.99	177.35	10,593.56	-1,841.25	-427.09	1,859.74	4.33	-2.74	-3.35
12,244.00	89.97	180.20	10,596.84	-1,934.14	-425.11	1,952.43	5.26	4.28	3.06
12,337.00	90.20	177.49	10,596.70	-2,027.12	-423.23	2,045.20	2.92	0.25	-2.91
12,431.00	88.85	174.94	10,597.48	-2,120.90	-417.03	2,138.57	3.07	-1.44	-2.71
12,525.00	89.07	173.64	10,599.19	-2,214.41	-407.68	2,231.53	1.40	0.23	-1.38
12,619.00	92.30	176.01	10,598.06	-2,308.00	-399.20	2,324.60	4.26	3.44	2.52
12,713.00	92.30	174.58	10,594.29	-2,401.61	-391.50	2,417.72	1.52	0.00	-1.52
12,805.00	91.93	176.00	10,590.89	-2,493.23	-383.95	2,508.88	1.59	-0.40	1.54
12,995.00	92.21	177.57	10,584.03	-2,682.80	-373.30	2,697.71	0.84	0.15	0.83
13,088.00	89.97	177.01	10,582.26	-2,775.68	-368.90	2,790.26	2.48	-2.41	-0.60
13,182.00	92.80	178.51	10,579.99	-2,869.57	-365.23	2,883.86	3.41	3.01	1.60
13,273.00	90.36	176.94	10,577.48	-2,960.45	-361.62	2,974.47	3.19	-2.68	-1.73
13,365.00	89.16	178.74	10,577.87	-3,052.38	-358.15	3,066.12	2.35	-1.30	1.96
13,456.00	87.93	182.57	10,580.18	-3,143.32	-359.19	3,157.01	4.42	-1.35	4.21
13,550.00	87.93	185.78	10,583.57	-3,237.00	-366.03	3,250.91	3.41	0.00	3.41
13,642.00	89.36	187.57	10,585.75	-3,328.35	-376.72	3,342.66	2.49	1.55	1.95
13,736.00	91.62	185.14	10,584.95	-3,421.75	-387.12	3,436.46	3.53	2.40	-2.59
13,830.00	91.46	181.36	10,582.42	-3,515.55	-392.45	3,530.41	4.02	-0.17	-4.02
13,923.00	89.66	180.11	10,581.51	-3,608.53	-393.64	3,623.34	2.36	-1.94	-1.34
14,016.00	90.73	180.36	10,581.19	-3,701.53	-394.02	3,716.25	1.18	1.15	0.27
14,109.00	89.75	181.16	10,580.80	-3,794.52	-395.26	3,809.19	1.36	-1.05	0.86
14,201.00	89.64	181.02	10,581.29	-3,886.50	-397.01	3,901.15	0.19	-0.12	-0.15
14,294.00	90.36	181.35	10,581.29	-3,979.48	-398.93	3,994.11	0.85	0.77	0.35
14,387.00	89.16	181.54	10,581.68	-4,072.45	-401.27	4,087.08	1.31	-1.29	0.20
14,480.00	89.30	181.40	10,582.93	-4,165.41	-403.66	4,180.05	0.21	0.15	-0.15
14,574.00	89.24	181.34	10,584.13	-4,259.37	-405.91	4,274.01	0.09	-0.06	-0.06
14,667.00	91.88	180.92	10,583.22	-4,352.34	-407.74	4,366.96	2.87	2.84	-0.45
14,760.00	89.38	180.19	10,582.20	-4,445.33	-408.64	4,459.88	2.80	-2.69	-0.78
14,852.00	92.16	182.50	10,580.96	-4,537.28	-410.80	4,551.83	3.93	3.02	2.51
14,945.00	90.90	181.18	10,578.48	-4,630.19	-413.78	4,644.78	1.96	-1.35	-1.42
15,038.00	89.61	181.70	10,578.07	-4,723.16	-416.12	4,737.75	1.50	-1.39	0.56
15,131.00	88.79	179.30	10,579.36	-4,816.14	-416.93	4,830.66	2.73	-0.88	-2.58
15,225.00	91.20	180.34	10,579.37	-4,910.13	-416.64	4,924.53	2.79	2.56	1.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Well:	2H	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)
15,318.00	89.61	177.96	10,578.72	-5,003.11	-415.26	5,017.33	3.08	-1.71	-2.56
15,410.00	90.28	179.21	10,578.80	-5,095.08	-412.99	5,109.08	1.54	0.73	1.36
15,503.00	89.75	178.03	10,578.78	-5,188.05	-410.75	5,201.84	1.39	-0.57	-1.27
15,597.00	89.38	178.63	10,579.49	-5,282.01	-408.01	5,295.55	0.75	-0.39	0.64
15,690.00	89.86	178.31	10,580.11	-5,374.97	-405.52	5,388.29	0.62	0.52	-0.34
15,785.00	89.44	179.32	10,580.69	-5,469.95	-403.56	5,483.06	1.15	-0.44	1.06
15,878.00	89.69	178.60	10,581.40	-5,562.93	-401.87	5,575.85	0.82	0.27	-0.77
15,972.00	89.92	178.57	10,581.72	-5,656.90	-399.55	5,669.60	0.25	0.24	-0.03
16,065.00	89.75	178.10	10,581.98	-5,749.86	-396.85	5,762.32	0.54	-0.18	-0.51
16,159.00	90.34	179.20	10,581.91	-5,843.83	-394.63	5,856.07	1.33	0.63	1.17
16,252.00	90.22	178.80	10,581.46	-5,936.81	-393.01	5,948.87	0.45	-0.13	-0.43
16,345.00	90.70	179.09	10,580.71	-6,029.80	-391.30	6,041.66	0.60	0.52	0.31
16,438.00	90.28	179.24	10,579.91	-6,122.78	-389.94	6,134.47	0.48	-0.45	0.16
16,532.00	90.34	179.86	10,579.40	-6,216.78	-389.21	6,228.32	0.66	0.06	0.66
16,625.00	90.08	179.73	10,579.06	-6,309.78	-388.87	6,321.20	0.31	-0.28	-0.14
16,718.00	90.03	181.27	10,578.97	-6,402.77	-389.68	6,414.12	1.66	-0.05	1.66
16,812.00	90.17	182.57	10,578.81	-6,496.71	-392.83	6,508.11	1.39	0.15	1.38
16,905.00	90.08	182.42	10,578.61	-6,589.63	-396.88	6,601.11	0.19	-0.10	-0.16
16,998.00	90.31	183.38	10,578.29	-6,682.51	-401.59	6,694.10	1.06	0.25	1.03
17,092.00	90.06	182.80	10,577.99	-6,776.37	-406.65	6,788.10	0.67	-0.27	-0.62
17,185.00	90.42	183.77	10,577.60	-6,869.21	-411.98	6,881.10	1.11	0.39	1.04
17,278.00	90.53	183.04	10,576.83	-6,962.04	-417.51	6,974.09	0.79	0.12	-0.78
17,372.00	90.22	183.03	10,576.21	-7,055.91	-422.48	7,068.08	0.33	-0.33	-0.01
17,465.00	90.20	181.06	10,575.87	-7,148.85	-425.80	7,161.07	2.12	-0.02	-2.12
17,558.00	89.97	180.04	10,575.73	-7,241.84	-426.69	7,254.00	1.12	-0.25	-1.10
17,651.00	90.50	180.16	10,575.35	-7,334.84	-426.86	7,346.90	0.58	0.57	0.13
17,745.00	90.48	179.22	10,574.55	-7,428.83	-426.35	7,440.76	1.00	-0.02	-1.00
17,838.00	90.53	178.83	10,573.73	-7,521.82	-424.77	7,533.56	0.42	0.05	-0.42
17,932.00	90.03	178.00	10,573.27	-7,615.78	-422.17	7,627.28	1.03	-0.53	-0.88
18,026.00	90.42	177.24	10,572.90	-7,709.70	-418.26	7,720.90	0.91	0.41	-0.81
18,118.00	90.11	176.97	10,572.47	-7,801.58	-413.62	7,812.45	0.45	-0.34	-0.29
18,156.00	89.97	175.96	10,572.45	-7,839.50	-411.27	7,850.22	2.68	-0.37	-2.66
Last MWD Survey @ 18156'									
18,195.00	89.97	175.96	10,572.47	-7,878.41	-408.53	7,888.94	0.00	0.00	0.00
PTB @ 18195'									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
18,156.00	10,572.45	-7,839.50	-411.27	Last MWD Survey @ 18156'
18,195.00	10,572.47	-7,878.41	-408.53	PTB @ 18195'

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co. NM (NAD 83)	TVD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Site:	Fuller 13 24 W1KN Fed Com	MD Reference:	RKB=28' @ 3031.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____