

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
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District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

EMNRD-OCD ARTESIA
REC'D: 5/29/2020 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-46039		² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 326139	⁵ Property Name DELAWARE RANCH 13/24 W1DM FED COM		⁶ Well Number 1H
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY		⁹ Elevation 2946'

¹⁰ Surface Location

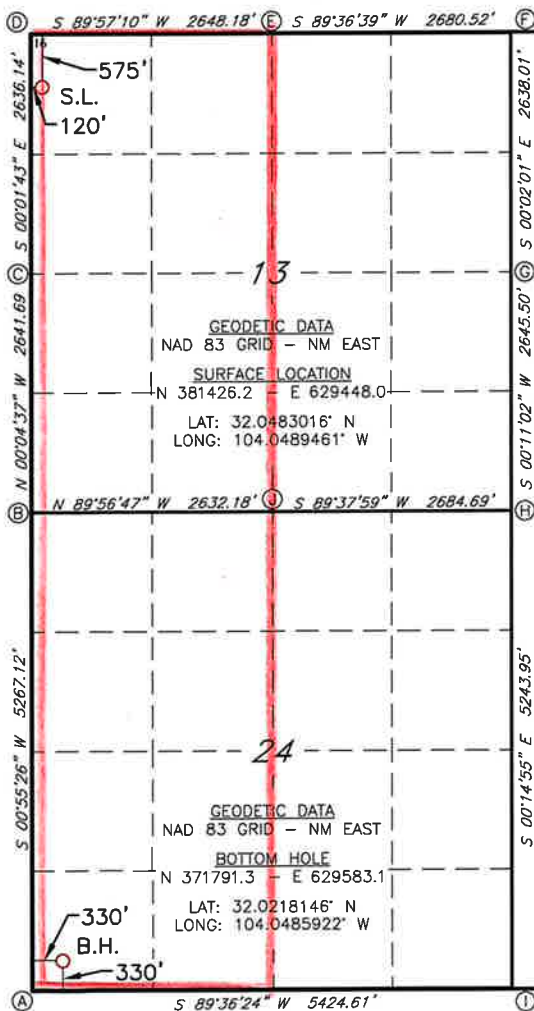
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
D	13	26S	28E		575	NORTH	120	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	24	26S	28E		319	SOUTH	345	WEST	EDDY

¹² Dedicated Acres 640	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Jackie Lathan 2/28/2020
Signature Date
Jackie Lathan
Printed Name

E-mail Address

¹⁸ SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

1-31-19

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



Job No.: LS19010143

KMS NMCD

Intent ☐ As Drilled ☒

API # 30-015-46309		Operator Name: Mewbourne Oil Company		Property Name: Delaware Ranch 13/24 W1DM Federal Com		Well Number #1H
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Kick Off Point (KOP)

UL D	Section 13	Township 26	Range 29	Lot	Feet 45	From N/S FWL	Feet 315	From E/W FWL	County Edley
Latitude 32.049757					Longitude -104.048281				NAD 83

First Take Point (FTP)

UL D	Section 13	Township 26	Range 29	Lot	Feet 389	From N/S N	Feet 339	From E/W W	County Edley
Latitude 32.048808					Longitude -104.048242				NAD 83

Last Take Point (LTP)

UL M	Section 24	Township 26	Range 29	Lot	Feet 381	From N/S S	Feet 345	From E/W W	County Edley
Latitude 32.021957					Longitude -104.048537				NAD 83

Is this well the defining well for the Horizontal Spacing Unit?



Is this well an infill well?

☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		Operator Name:		Property Name:		Well Number

KZ 06/29/2018



Project: Eddy Co., NM (NAD 83)
Site: Delaware Ranch 13-24 WIDM Fed Com
Well: #1H
Wellbore: OH
Design: Plan #1
Lat: 32.048302
Long: -104.048946
KB: RKB-28' @ 2974.00usf (Patterson 250)



WELL DETAILS: #1H

	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0.00	0.00	381426.20	629448.00	32.048302	-104.048946

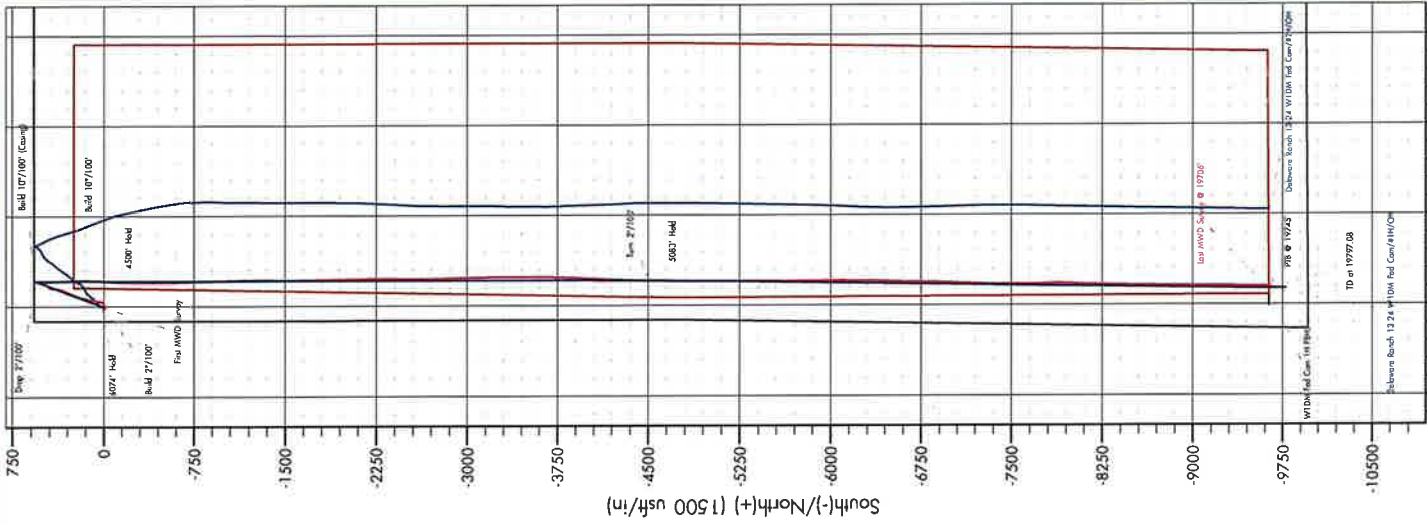
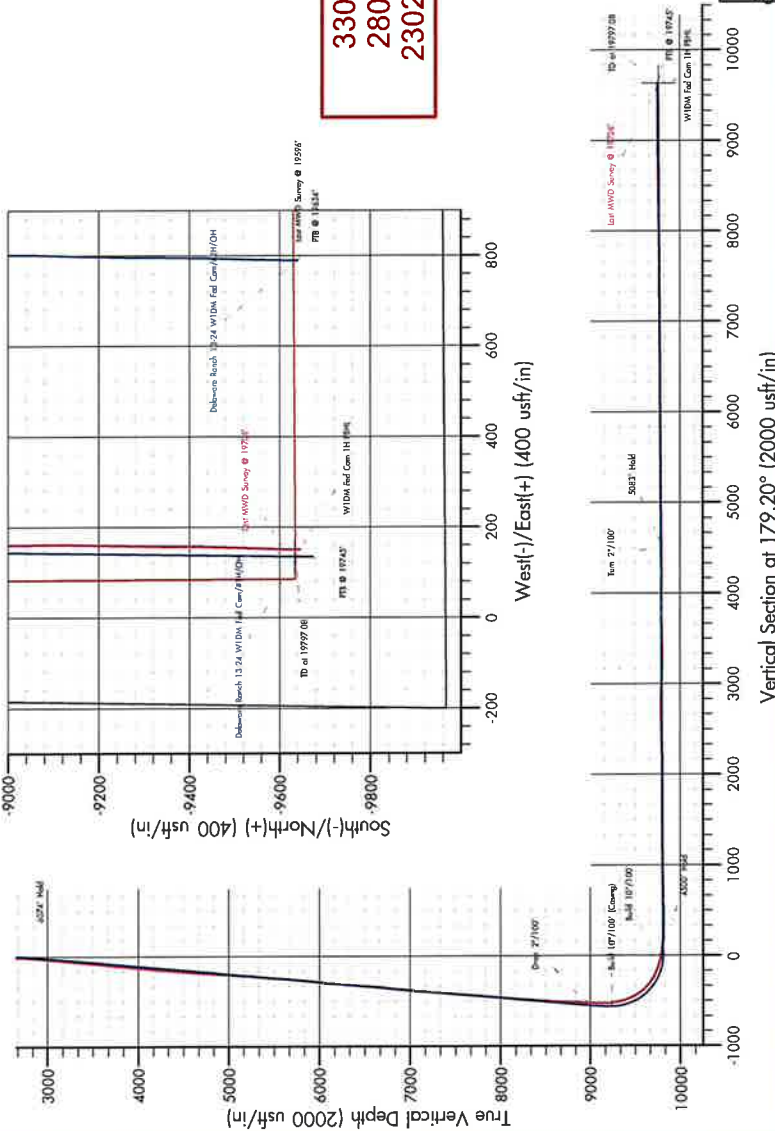
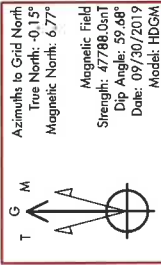
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
WIDM Fed Com 1H PBL	9764.00	-9634.90	135.10	371791.30	629583.10	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSet	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2650.00	0.00	0.00	2650.00	0.00	0.00	0.00	0.00	0.00	Build 2'/'100'
2922.50	5.45	20.38	2922.09	12.14	4.51	2.00	20.38	-12.08	6074' Hold
8996.87	5.45	20.38	8996.00	552.95	205.42	0.00	0.00	-550.02	Drop 2'/'100'
9269.37	0.00	0.00	9241.09	565.09	209.93	2.00	180.00	-562.09	Build 10'/'100' (Cosing)
9969.37	70.00	180.00	9779.49	188.10	209.93	10.00	180.00	-185.14	Build 10'/'100'
10172.37	90.30	180.00	9814.04	-10.87	209.93	10.00	0.00	13.81	4500' Hold
14672.40	90.30	180.00	9790.48	-4510.83	209.93	0.00	0.00	4513.33	Turn 2'/'100'
14714.41	90.30	180.84	9790.26	-4552.84	209.42	2.00	90.27	4555.33	5083' Hold
19797.08	90.30	180.84	9764.00	-9634.90	135.10	0.00	0.00	9635.85	TD at 19797.08

Formation Tops
No formation data is available



Plan: Plan #1 (#1H/OH)

Created By: Marcus Spurgin Date: 6-08 November 08 2019



Mewbourne Oil Company

**Eddy Co., NM (NAD 83)
Delaware Ranch 13-24 W1DM Fed Com
#1H**

OH

Design: OH

Standard Survey Report

08 November, 2019



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
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	Delaware Ranch 13-24 W1DM Fed Com				
Site Position:		Northing:	381,426.20 usft	Latitude:	32.048302
From:	Map	Easting:	629,448.00 usft	Longitude:	-104.048947
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	#1H				
Well Position	+N/-S	0.00 usft	Northing:	381,426.20 usft	Latitude: 32.048302
	+E/-W	0.00 usft	Easting:	629,448.00 usft	Longitude: -104.048947
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level: 2,946.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	09/30/19	6.92	59.68	47,788.00000000

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	179.20	

Survey Program	Date	11/08/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
200.00	19,745.00	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
200.00	1.27	318.69	199.98	1.66	-1.46	-1.69	0.64	0.64	0.00
First MWD Survey									
379.00	2.36	263.95	378.90	2.77	-6.44	-2.86	1.08	0.61	-30.58
499.00	1.46	236.56	498.84	1.66	-10.17	-1.81	1.05	-0.75	-22.83
648.00	0.56	234.96	647.81	0.20	-12.35	-0.37	0.60	-0.60	-1.07
775.00	0.70	280.01	774.81	-0.02	-13.62	-0.17	0.39	0.11	35.47
933.00	0.59	244.67	932.80	-0.20	-15.31	-0.01	0.26	-0.07	-22.37
1,060.00	1.13	131.84	1,059.79	-1.32	-14.97	1.11	1.15	0.43	-88.84
1,185.00	1.24	123.55	1,184.76	-2.89	-12.92	2.71	0.16	0.09	-6.63
1,310.00	1.46	107.32	1,309.73	-4.11	-10.27	3.96	0.35	0.18	-12.98

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Well:	#1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Datacase:	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)
1,499.00	1.92	101.51	1,498.64	-5.46	-4.87	5.39	0.26	0.24	-3.07
1,689.00	1.45	91.02	1,688.56	-6.14	0.65	6.14	0.29	-0.25	-5.52
1,876.00	0.99	29.66	1,875.53	-4.77	3.81	4.83	0.70	-0.25	-32.81
1,907.00	0.79	38.43	1,906.52	-4.37	4.08	4.43	0.78	-0.65	28.29
2,096.00	2.42	74.00	2,095.44	-2.25	8.73	2.37	0.97	0.86	18.82
2,282.00	1.51	71.48	2,281.33	-0.39	14.82	0.60	0.49	-0.49	-1.35
2,468.00	3.70	80.85	2,467.13	1.34	23.07	-1.02	1.20	1.18	5.04
2,528.00	3.52	54.54	2,527.02	2.72	26.49	-2.35	2.75	-0.30	-43.85
2,659.00	3.70	52.82	2,657.76	7.61	33.13	-7.14	0.16	0.14	-1.31
2,844.00	4.88	18.21	2,842.26	18.69	40.35	-18.12	1.51	0.64	-18.71
3,029.00	5.82	12.53	3,026.46	35.32	44.84	-34.69	0.58	0.51	-3.07
3,122.00	5.78	11.92	3,118.98	44.51	46.83	-43.85	0.08	-0.04	-0.66
3,214.00	5.69	12.55	3,210.52	53.49	48.78	-52.80	0.12	-0.10	0.68
3,307.00	5.74	11.35	3,303.06	62.55	50.70	-61.84	0.14	0.05	-1.29
3,400.00	5.83	10.71	3,395.58	71.75	52.49	-71.01	0.12	0.10	-0.69
3,492.00	5.49	9.10	3,487.14	80.69	54.05	-79.93	0.41	-0.37	-1.75
3,585.00	4.93	7.80	3,579.75	89.04	55.30	-88.26	0.62	-0.60	-1.40
3,678.00	5.02	6.50	3,672.40	97.04	56.30	-96.25	0.16	0.10	-1.40
3,770.00	5.52	14.26	3,764.01	105.33	57.85	-104.51	0.95	0.54	8.43
3,864.00	5.97	17.08	3,857.54	114.38	60.40	-113.53	0.56	0.48	3.00
3,956.00	5.86	13.25	3,949.05	123.53	62.88	-122.64	0.45	-0.12	-4.16
4,049.00	5.59	12.24	4,041.59	132.58	64.93	-131.66	0.31	-0.29	-1.09
4,142.00	5.37	11.11	4,134.16	141.27	66.73	-140.33	0.26	-0.24	-1.22
4,234.00	4.99	11.77	4,225.79	149.42	68.37	-148.45	0.42	-0.41	0.72
4,327.00	4.90	9.10	4,318.44	157.30	69.82	-156.31	0.27	-0.10	-2.87
4,420.00	4.85	7.54	4,411.10	165.12	70.97	-164.11	0.15	-0.05	-1.68
4,512.00	4.88	10.09	4,502.77	172.82	72.16	-171.80	0.24	0.03	2.77
4,605.00	4.52	14.82	4,595.46	180.26	73.80	-179.21	0.57	-0.39	5.09
4,698.00	4.34	13.66	4,688.18	187.22	75.56	-186.15	0.22	-0.19	-1.25
4,791.00	4.13	14.96	4,780.93	193.88	77.26	-192.78	0.25	-0.23	1.40
4,884.00	3.98	15.07	4,873.70	200.23	78.96	-199.11	0.16	-0.16	0.12
4,976.00	3.67	13.68	4,965.49	206.17	80.49	-205.03	0.35	-0.34	-1.51
5,069.00	3.30	16.40	5,058.32	211.63	81.95	-210.47	0.44	-0.40	2.92
5,162.00	3.19	15.88	5,151.17	216.69	83.41	-215.51	0.12	-0.12	-0.56
5,256.00	4.80	22.29	5,244.94	222.85	85.62	-221.63	1.77	1.71	6.82
5,349.00	5.32	28.76	5,337.58	230.23	89.17	-228.96	0.83	0.56	6.96
5,441.00	5.04	28.27	5,429.20	237.52	93.14	-236.20	0.31	-0.30	-0.53
5,535.00	4.83	28.07	5,522.85	244.65	96.95	-243.27	0.22	-0.22	-0.21
5,627.00	4.70	28.01	5,614.53	251.40	100.55	-249.97	0.14	-0.14	-0.07
5,720.00	6.02	23.25	5,707.13	259.24	104.26	-257.76	1.50	1.42	-5.12
5,813.00	6.48	23.45	5,799.57	268.54	108.27	-267.00	0.50	0.49	0.22
5,905.00	6.28	24.01	5,891.00	277.90	112.39	-276.30	0.23	-0.22	0.61
5,999.00	6.00	23.21	5,984.46	287.11	116.42	-285.45	0.31	-0.30	-0.85

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
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)
6,092.00	5.80	22.55	6,076.97	295.92	120.13	-294.21	0.23	-0.22	-0.71
6,185.00	5.48	21.27	6,169.52	304.39	123.55	-302.64	0.37	-0.34	-1.38
6,278.00	5.17	19.46	6,262.12	312.48	126.55	-310.69	0.38	-0.33	-1.95
6,370.00	4.70	16.67	6,353.78	320.00	129.02	-318.17	0.57	-0.51	-3.03
6,464.00	5.95	25.86	6,447.37	328.08	132.25	-326.20	1.61	1.33	9.78
6,557.00	5.46	25.51	6,539.91	336.41	136.25	-334.47	0.53	-0.53	-0.38
6,650.00	4.60	22.15	6,632.55	343.85	139.57	-341.87	0.98	-0.92	-3.61
6,743.00	7.78	19.24	6,725.00	353.25	143.05	-351.22	3.43	3.42	-3.13
6,836.00	6.33	15.55	6,817.29	364.14	146.50	-362.06	1.63	-1.56	-3.97
6,929.00	5.92	8.89	6,909.76	373.81	148.61	-371.70	0.88	-0.44	-7.16
7,021.00	4.77	359.63	7,001.36	382.33	149.32	-380.20	1.56	-1.25	-10.07
7,114.00	3.47	2.82	7,094.12	389.00	149.43	-386.88	1.42	-1.40	3.43
7,207.00	5.66	6.17	7,186.82	396.38	150.06	-394.24	2.37	2.35	3.60
7,300.00	5.59	10.15	7,279.37	405.39	151.36	-403.24	0.43	-0.08	4.28
7,393.00	5.18	11.27	7,371.96	413.97	152.97	-411.79	0.46	-0.44	1.20
7,486.00	4.68	10.24	7,464.62	421.82	154.47	-419.62	0.55	-0.54	-1.11
7,579.00	4.22	8.78	7,557.34	428.94	155.67	-426.72	0.51	-0.49	-1.57
7,672.00	3.44	4.47	7,650.13	435.10	156.41	-432.87	0.89	-0.84	-4.63
7,765.00	5.23	22.97	7,742.86	441.79	158.28	-439.53	2.42	1.92	19.89
7,858.00	4.88	26.75	7,835.50	449.22	161.71	-446.92	0.52	-0.38	4.06
7,951.00	5.85	34.70	7,928.09	456.65	166.19	-454.28	1.31	1.04	8.55
8,044.00	6.13	44.12	8,020.59	464.11	172.35	-461.66	1.10	0.30	10.13
8,137.00	5.27	47.57	8,113.13	470.56	178.96	-468.01	1.00	-0.92	3.71
8,230.00	5.80	30.97	8,205.70	477.47	184.53	-474.85	1.81	0.57	-17.85
8,323.00	5.53	25.28	8,298.25	485.55	188.86	-482.87	0.67	-0.29	-6.12
8,416.00	5.11	27.73	8,390.85	493.27	192.70	-490.53	0.51	-0.45	2.63
8,508.00	3.96	26.73	8,482.56	499.73	196.03	-496.95	1.25	-1.25	-1.09
8,602.00	4.07	22.96	8,576.33	505.70	198.80	-502.88	0.30	0.12	-4.01
8,695.00	3.64	19.59	8,669.12	511.52	201.07	-508.66	0.52	-0.46	-3.62
8,788.00	2.84	15.76	8,761.97	516.52	202.69	-513.64	0.89	-0.86	-4.12
8,881.00	2.40	13.55	8,854.87	520.63	203.77	-517.74	0.49	-0.47	-2.38
8,974.00	2.11	4.13	8,947.80	524.23	204.35	-521.33	0.51	-0.31	-10.13
9,067.00	1.62	6.53	9,040.75	527.25	204.62	-524.34	0.53	-0.53	2.58
9,136.00	1.26	1.83	9,109.73	528.97	204.76	-526.06	0.55	-0.52	-6.81
9,184.00	1.03	356.63	9,157.72	529.93	204.75	-527.02	0.53	-0.48	-10.83
9,231.00	1.96	170.01	9,204.71	529.56	204.86	-526.65	6.35	1.98	368.89
9,278.00	5.78	169.71	9,251.59	526.44	205.43	-523.52	8.13	8.13	-0.64
9,325.00	11.32	176.20	9,298.05	519.50	206.16	-516.57	11.95	11.79	13.81
9,370.00	14.61	180.75	9,341.90	509.42	206.37	-506.49	7.65	7.31	10.11
9,417.00	19.02	178.26	9,386.88	495.83	206.53	-492.90	9.51	9.38	-5.30
9,463.00	22.85	178.16	9,429.84	479.40	207.04	-476.47	8.33	8.33	-0.22
9,510.00	26.29	180.20	9,472.58	459.87	207.30	-456.93	7.54	7.32	4.34
9,557.00	30.12	179.34	9,513.99	437.66	207.40	-434.72	8.19	8.15	-1.83

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
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)
9,604.00	35.84	176.31	9,553.40	412.11	208.42	-409.16	12.66	12.17	-6.45
9,649.00	40.44	176.02	9,588.78	384.39	210.28	-381.42	10.23	10.22	-0.64
9,696.00	45.24	176.02	9,623.24	352.52	212.50	-349.52	10.21	10.21	0.00
9,743.00	49.48	176.71	9,655.07	318.02	214.69	-315.00	9.09	9.02	1.47
9,790.00	55.09	176.90	9,683.81	280.92	216.75	-277.86	11.94	11.94	0.40
9,835.00	59.29	179.89	9,708.19	243.13	217.79	-240.06	10.87	9.33	6.64
9,882.00	65.98	179.93	9,729.78	201.41	217.86	-198.35	14.23	14.23	0.09
9,928.00	70.19	180.81	9,746.95	158.74	217.58	-155.69	9.32	9.15	1.91
9,980.00	73.20	181.41	9,763.28	109.39	216.62	-106.35	5.89	5.79	1.15
10,056.00	77.02	183.27	9,782.80	36.02	213.61	-33.03	5.55	5.03	2.45
10,097.00	78.67	183.37	9,791.44	-3.99	211.29	6.94	4.03	4.02	0.24
10,190.00	82.95	182.58	9,806.29	-95.65	206.53	98.53	4.68	4.60	-0.85
10,284.00	87.08	181.95	9,814.45	-189.20	202.83	192.02	4.44	4.39	-0.67
10,376.00	90.56	180.80	9,816.35	-281.14	200.62	283.91	3.98	3.78	-1.25
10,469.00	90.48	179.65	9,815.50	-374.13	200.26	376.89	1.24	-0.09	-1.24
10,562.00	90.42	179.13	9,814.77	-467.13	201.25	469.89	0.56	-0.06	-0.56
10,654.00	91.07	178.80	9,813.58	-559.10	202.91	561.88	0.79	0.71	-0.36
10,747.00	90.81	178.79	9,812.05	-652.07	204.86	654.87	0.28	-0.28	-0.01
10,840.00	90.20	178.10	9,811.23	-745.03	207.39	747.85	0.99	-0.66	-0.74
10,932.00	90.56	178.81	9,810.62	-836.99	209.87	839.84	0.87	0.39	0.77
11,025.00	91.34	178.80	9,809.08	-929.96	211.81	932.83	0.84	0.84	-0.01
11,118.00	91.20	177.59	9,807.02	-1,022.89	214.74	1,025.79	1.31	-0.15	-1.30
11,210.00	90.76	179.04	9,805.44	-1,114.83	217.44	1,117.76	1.65	-0.48	1.58
11,303.00	91.57	180.51	9,803.55	-1,207.81	217.81	1,210.73	1.80	0.87	1.58
11,396.00	91.12	180.45	9,801.37	-1,300.78	217.03	1,303.69	0.49	-0.48	-0.06
11,488.00	89.22	180.88	9,801.10	-1,392.77	215.96	1,395.65	2.12	-2.07	0.47
11,581.00	89.52	180.46	9,802.12	-1,485.76	214.87	1,488.61	0.55	0.32	-0.45
11,674.00	89.22	179.13	9,803.14	-1,578.75	215.20	1,581.60	1.47	-0.32	-1.43
11,767.00	90.39	178.48	9,803.46	-1,671.73	217.14	1,674.60	1.44	1.26	-0.70
11,860.00	89.83	178.01	9,803.28	-1,764.68	219.99	1,767.58	0.79	-0.60	-0.51
11,953.00	88.49	178.89	9,804.64	-1,857.64	222.51	1,860.56	1.72	-1.44	0.95
12,046.00	89.64	179.59	9,806.16	-1,950.61	223.74	1,953.55	1.45	1.24	0.75
12,139.00	90.70	179.65	9,805.88	-2,043.61	224.36	2,046.54	1.14	1.14	0.06
12,232.00	90.42	177.98	9,804.98	-2,136.58	226.28	2,139.53	1.82	-0.30	-1.80
12,325.00	91.60	179.35	9,803.34	-2,229.54	228.45	2,232.51	1.94	1.27	1.47
12,418.00	93.76	181.09	9,798.99	-2,322.43	228.09	2,325.38	2.98	2.32	1.87
12,511.00	91.93	181.11	9,794.37	-2,415.29	226.31	2,418.22	1.97	-1.97	0.02
12,603.00	90.62	180.66	9,792.32	-2,507.25	224.89	2,510.15	1.51	-1.42	-0.49
12,696.00	90.62	179.99	9,791.32	-2,600.25	224.36	2,603.13	0.72	0.00	-0.72
12,789.00	89.52	178.78	9,791.20	-2,693.24	225.36	2,696.12	1.76	-1.18	-1.30
12,881.00	90.67	178.25	9,791.05	-2,785.21	227.74	2,788.11	1.38	1.25	-0.58
12,974.00	89.66	177.51	9,790.78	-2,878.14	231.18	2,881.09	1.35	-1.09	-0.80
13,067.00	86.36	177.76	9,794.01	-2,970.99	235.02	2,973.98	3.56	-3.55	0.27
13,159.00	87.87	179.15	9,798.64	-3,062.84	237.50	3,065.85	2.23	1.64	1.51

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
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)
13,252.00	89.19	179.32	9,801.03	-3,155.80	238.74	3,158.82	1.43	1.42	0.18
13,345.00	89.58	179.52	9,802.03	-3,248.79	239.68	3,251.82	0.47	0.42	0.22
13,438.00	90.39	181.09	9,802.05	-3,341.78	239.18	3,344.79	1.90	0.87	1.69
13,531.00	90.45	180.69	9,801.37	-3,434.77	237.74	3,437.75	0.43	0.06	-0.43
13,623.00	90.53	179.61	9,800.58	-3,526.76	237.50	3,529.73	1.18	0.09	-1.17
13,716.00	91.46	180.03	9,798.97	-3,619.75	237.79	3,622.71	1.10	1.00	0.45
13,809.00	93.00	180.63	9,795.35	-3,712.67	237.25	3,715.62	1.78	1.66	0.65
13,901.00	89.66	181.72	9,793.22	-3,804.61	235.37	3,807.53	3.82	-3.63	1.18
13,993.00	90.39	182.89	9,793.18	-3,896.54	231.67	3,899.39	1.50	0.79	1.27
14,085.00	89.10	182.27	9,793.58	-3,988.44	227.53	3,991.23	1.56	-1.40	-0.67
14,178.00	89.83	183.14	9,794.45	-4,081.33	223.14	4,084.05	1.22	0.78	0.94
14,271.00	89.75	183.36	9,794.79	-4,174.18	217.87	4,176.81	0.25	-0.09	0.24
14,364.00	89.27	183.11	9,795.59	-4,267.03	212.62	4,269.58	0.58	-0.52	-0.27
14,457.00	89.22	181.34	9,796.81	-4,359.95	209.01	4,362.44	1.90	-0.05	-1.90
14,550.00	90.56	181.04	9,796.99	-4,452.92	207.08	4,455.38	1.48	1.44	-0.32
14,642.00	90.62	180.21	9,796.05	-4,544.91	206.07	4,547.35	0.90	0.07	-0.90
14,734.00	90.73	180.06	9,794.96	-4,636.91	205.86	4,639.33	0.20	0.12	-0.16
14,827.00	90.76	180.45	9,793.75	-4,729.90	205.44	4,732.30	0.42	0.03	0.42
14,920.00	90.70	179.95	9,792.57	-4,822.89	205.12	4,825.28	0.54	-0.06	-0.54
15,013.00	90.73	180.27	9,791.41	-4,915.88	204.94	4,918.26	0.35	0.03	0.34
15,105.00	90.39	180.28	9,790.51	-5,007.88	204.50	5,010.24	0.37	-0.37	0.01
15,198.00	90.70	179.71	9,789.62	-5,100.87	204.51	5,103.23	0.70	0.33	-0.61
15,291.00	90.45	180.28	9,788.69	-5,193.87	204.51	5,196.21	0.67	-0.27	0.61
15,384.00	90.70	180.37	9,787.76	-5,286.86	203.99	5,289.19	0.29	0.27	0.10
15,477.00	91.15	179.75	9,786.26	-5,379.85	203.89	5,382.17	0.82	0.48	-0.67
15,568.00	90.56	179.49	9,784.90	-5,470.83	204.49	5,473.16	0.71	-0.65	-0.29
15,661.00	90.28	179.39	9,784.22	-5,563.83	205.40	5,566.15	0.32	-0.30	-0.11
15,754.00	90.45	179.47	9,783.62	-5,656.82	206.33	5,659.15	0.20	0.18	0.09
15,846.00	89.97	179.21	9,783.29	-5,748.81	207.39	5,751.15	0.59	-0.52	-0.28
15,938.00	90.67	180.22	9,782.77	-5,840.81	207.84	5,843.14	1.34	0.76	1.10
16,031.00	90.00	179.86	9,782.23	-5,933.81	207.78	5,936.13	0.82	-0.72	-0.39
16,123.00	90.17	180.04	9,782.09	-6,025.81	207.86	6,028.12	0.27	0.18	0.20
16,216.00	90.34	180.02	9,781.68	-6,118.81	207.81	6,121.11	0.18	0.18	-0.02
16,311.00	90.20	180.05	9,781.23	-6,213.80	207.75	6,216.10	0.15	-0.15	0.03
16,405.00	90.42	181.25	9,780.72	-6,307.79	206.69	6,310.07	1.30	0.23	1.28
16,500.00	90.08	181.45	9,780.31	-6,402.77	204.45	6,405.00	0.42	-0.36	0.21
16,594.00	90.11	181.75	9,780.15	-6,496.73	201.82	6,498.92	0.32	0.03	0.32
16,689.00	90.06	181.12	9,780.01	-6,591.70	199.44	6,593.84	0.67	-0.05	-0.66
16,784.00	90.14	181.31	9,779.84	-6,686.68	197.43	6,688.78	0.22	0.08	0.20
16,878.00	90.22	181.42	9,779.55	-6,780.65	195.19	6,782.72	0.14	0.09	0.12
16,973.00	90.28	181.90	9,779.14	-6,875.61	192.44	6,877.63	0.51	0.06	0.51
17,068.00	90.81	182.70	9,778.23	-6,970.53	188.63	6,972.48	1.01	0.56	0.84
17,162.00	90.64	181.54	9,777.04	-7,064.45	185.15	7,066.35	1.25	-0.18	-1.23

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well #1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
Site:	Delaware Ranch 13-24 W1DM Fed Com	MD Reference:	RKB=28' @ 2974.00usft (Patterson 250)
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)
17,256.00	90.14	181.25	9,776.40	-7,158.42	182.86	7,160.28	0.61	-0.53	-0.31
17,351.00	90.81	182.13	9,775.61	-7,253.38	180.06	7,255.19	1.16	0.71	0.93
17,445.00	90.87	182.50	9,774.24	-7,347.29	176.26	7,349.04	0.40	0.06	0.39
17,540.00	86.81	180.67	9,776.16	-7,442.21	173.64	7,443.91	4.69	-4.27	-1.93
17,634.00	91.01	180.34	9,777.95	-7,536.17	172.81	7,537.85	4.48	4.47	-0.35
17,728.00	90.28	178.02	9,776.89	-7,630.15	174.15	7,631.83	2.59	-0.78	-2.47
17,823.00	90.76	177.62	9,776.03	-7,725.07	177.77	7,726.80	0.66	0.51	-0.42
17,918.00	90.39	178.34	9,775.07	-7,820.01	181.11	7,821.78	0.85	-0.39	0.76
18,013.00	90.98	180.59	9,773.94	-7,914.99	182.00	7,916.76	2.45	0.62	2.37
18,107.00	93.36	183.65	9,770.38	-8,008.84	178.53	8,010.55	4.12	2.53	3.26
18,200.00	91.82	181.97	9,766.17	-8,101.63	173.98	8,103.27	2.45	-1.66	-1.81
18,295.00	90.39	181.13	9,764.34	-8,196.57	171.41	8,198.17	1.75	-1.51	-0.88
18,390.00	90.25	181.31	9,763.81	-8,291.55	169.38	8,293.11	0.24	-0.15	0.19
18,485.00	90.17	181.38	9,763.46	-8,386.52	167.15	8,388.04	0.11	-0.08	0.07
18,581.00	90.48	180.55	9,762.92	-8,482.51	165.54	8,483.99	0.92	0.32	-0.86
18,676.00	90.73	179.79	9,761.92	-8,577.50	165.26	8,578.97	0.84	0.26	-0.80
18,771.00	90.22	179.97	9,761.13	-8,672.50	165.45	8,673.96	0.57	-0.54	0.19
18,867.00	90.31	181.94	9,760.68	-8,768.48	163.85	8,769.91	2.05	0.09	2.05
18,962.00	90.25	180.69	9,760.22	-8,863.45	161.67	8,864.84	1.32	-0.06	-1.32
19,057.00	89.80	180.47	9,760.18	-8,958.45	160.71	8,959.82	0.53	-0.47	-0.23
19,152.00	89.61	179.05	9,760.67	-9,053.44	161.11	9,054.81	1.51	-0.20	-1.49
19,247.00	90.95	181.24	9,760.20	-9,148.43	160.87	9,149.79	2.70	1.41	2.31
19,342.00	90.36	180.45	9,759.12	-9,243.41	159.47	9,244.74	1.04	-0.62	-0.83
19,437.00	90.39	181.33	9,758.50	-9,338.40	157.99	9,339.69	0.93	0.03	0.93
19,531.00	89.92	179.90	9,758.24	-9,432.39	156.99	9,433.66	1.60	-0.50	-1.52
19,626.00	90.70	183.25	9,757.73	-9,527.34	154.37	9,528.57	3.62	0.82	3.53
19,706.00	90.03	181.09	9,757.22	-9,607.28	151.35	9,608.45	2.83	-0.84	-2.70
Last MWD Survey @ 19706'									
19,733.93	90.03	181.09	9,757.20	-9,635.20	150.81	9,636.36	0.00	0.00	0.00
W1DM Fed Com 1H PBHL									
19,745.00	90.03	181.09	9,757.20	-9,646.27	150.60	9,647.43	0.00	0.00	0.00
PTB @ 19745'									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
200.00	199.98	1.66	-1.46	First MWD Survey
19,706.00	9,757.22	-9,607.28	151.35	Last MWD Survey @ 19706'
19,745.00	9,757.20	-9,646.27	150.60	PTB @ 19745'

Checked By: _____ Approved By: _____ Date: _____