

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
Phone: (575) 748-1283 Fax: (575) 748-9720
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: 5/04/2020 Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

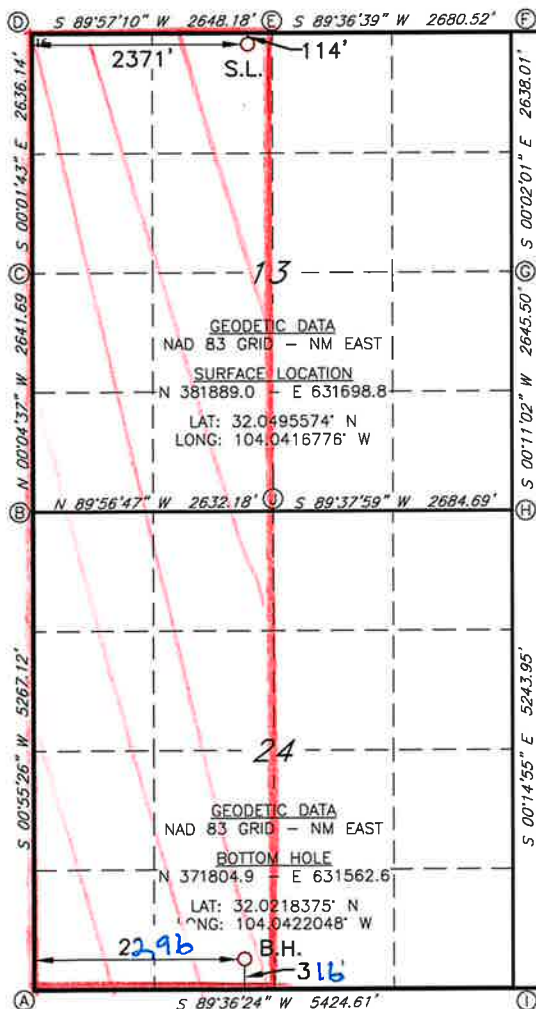
¹ API Number 30-015-46281		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 326106		⁵ Property Name DELAWARE RANCH 13/24 W1CN FED COM			⁶ Well Number 1H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 2940'

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
C	13	26S	28E		114	NORTH	2371	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
N	24	26S	28E		316	SOUTH	2296	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.



CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1995"
N 371459.1 - E 629247.9

B: FOUND BRASS CAP "1995"
N 376724.4 - E 629332.8

C: FOUND BRASS CAP "1995"
N 379365.5 - E 629329.2

D: FOUND BRASS CAP "1995"
N 382001.1 - E 629327.9

E: FOUND BRASS CAP "1995"
N 382003.2 - E 631975.5

F: FOUND BRASS CAP "1940"
N 382021.5 - E 634655.4

G: FOUND BRASS CAP "1940"
N 379384.0 - E 634656.9

H: FOUND BRASS CAP "1940"
N 376739.1 - E 634648.4

I: FOUND BRASS CAP "1995"
N 371496.4 - E 634671.2

J: FOUND BRASS CAP "1995"
N 376721.9 - E 631964.4

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.

Signature *Jackie Lathan* Date **02/26/2020**
Printed Name **Jackie Lathan**

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

REV. 3/5/19 BH MOVE



Job No.:

LS19020146

Intent ☐ As Drilled ☒

API # 30-015-46281			
Operator Name: Mewbourne Oil Company		Property Name: Delaware Ranch 13/24 W1CN Fed Com	Well Number 1H

Kick Off Point (KOP)

UL C	Section 13	Township 26S	Range 28E	Lot	Feet 56	From N/S North	Feet 2299	From E/W West	County Eddy
Latitude 32.0497187					Longitude -104.0419117				NAD 83

First Take Point (FTP)

UL C	Section 13	Township 26S	Range 28E	Lot	Feet 523	From N/S North	Feet 2289	From E/W West	County Eddy
Latitude 32.0484280					Longitude -104.0419434				NAD 83

Last Take Point (LTP)

UL N	Section 24	Township 26S	Range 28E	Lot	Feet 357	From N/S S	Feet 2296	From E/W W	County Eddy
Latitude 32.0219130					Longitude -104.0422479				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 # 30-015-46309			
Operator Name: Mewbourne Oil		Property Name: Delaware Ranch 13/24 W1DM F.L.	Well Number 1H

KZ 06/29/2018



WELL DETAILS: 1H

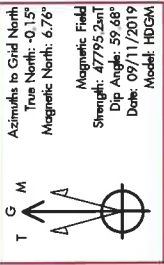
	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
	0.00	0.00	381889.00	631698.80	32.049557	-104.041678

WELLBORE TARGET DETAILS (LAT/LONG)

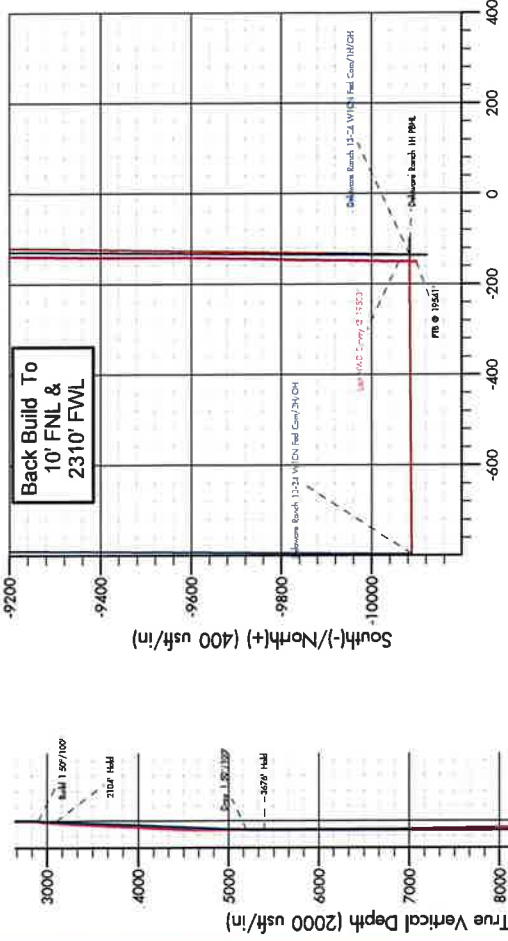
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
1H KOP	0.00	103.93	-61.10	381992.93	631637.70	Point
Delaware Ranch 1H PBHL	9579.00	-10084.10	-136.20	371804.90	631562.60	Point

SECTION DETAILS

MD	Incl	Azi	+N/-S	+E/-W	TVD	Dleg	TTrace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	0.00	0.00	2900.00	0.00	0.00	0.00	Build 1.50°/100'
3100.00	3.00	329.55	4.51	-2.65	3099.91	1.50	329.55	-4.48	2104' Hold
5203.54	3.00	329.55	99.42	-58.45	5200.57	0.00	0.00	-98.62	Drop 1.50°/100'
5403.54	0.00	0.00	0.00	0.00	5400.47	1.50	180.00	-103.10	3676' Hold
9079.58	0.00	0.00	103.93	-61.10	9076.51	0.00	0.00	-103.10	Build 10°/100'
9983.78	90.42	180.42	-473.21	-65.35	9649.45	10.00	180.42	474.05	9611' Hold
19595.19	90.42	180.42	-10084.10	-136.20	9579.00	0.00	0.00	10085.02	TD at 19595.19



Formation	TVDPath
Soil Base	2488.00
Delaware (Lamar)	2663.00
Ball Canyon	2693.00
Cherry Canyon	3713.00
Manzanita Marker	4129.00
Basal Brushy Canyon	6378.00
Bone Spring	7263.00
1st Bone Spring Sand	8093.00
2nd Bone Spring Sand	9215.00
3rd Bone Spring Sand	9498.00
Wellcamp	

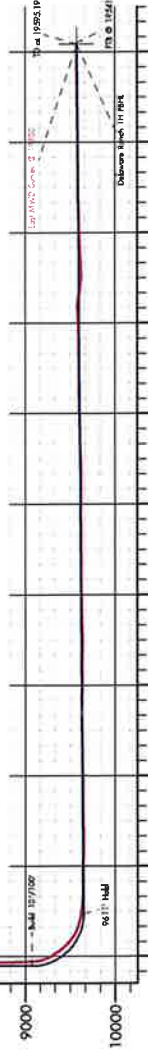


West-/East+ (400 usf/in)

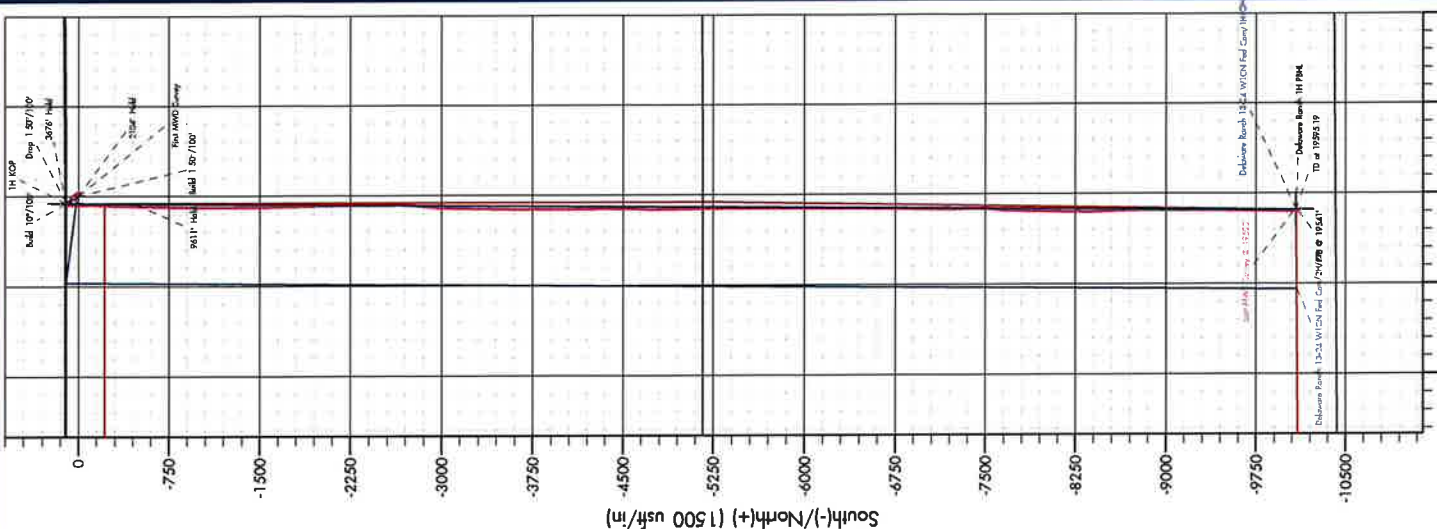
1H SHL:
114' FNL & 2371'
FWL

1H PBHL:
330' FSL & 2310'
FWL

330' N/S Hardlines
330' FWL Hardline
2310' FWL Hardline



Vertical Section at 180.77° (2000 usf/in)





Mewbourne Oil Company

Eddy Co., NM (NAD 83)
Delaware Ranch 13-24 W1CN Fed Com
1H

OH

Design: OH

Standard Survey Report

17 October, 2019





Mewbourne Oil Company

Patterson 564

**Delaware Ranch W1CN Fed Com 1H
(AEP19205)**

2019-09-16 to 2019-10-24

Eddy, New Mexico, US (32.05, -104.04)

Job Type
Directional

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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		Delaware Ranch 13-24 W1CN Fed Com			
Site Position:		Northing:	381,889.00 usft	Latitude:	32.049557
From:	Map	Easting:	631,698.80 usft	Longitude:	-104.041678
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	1H					
Well Position	+N/-S	0.00 usft	Northing:	381,889.00 usft	Latitude:	32.049557
	+E/-W	0.00 usft	Easting:	631,698.80 usft	Longitude:	-104.041678
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,941.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	09/11/19	6.92	59.68	47,795.20000000

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	180.77	

Survey Program	Date	10/17/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
198.00	19,541.00	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
1H KOP									
198.00	0.01	177.50	198.00	-0.02	0.00	0.02	0.01	0.01	0.00
First MWD Survey									
260.00	0.08	264.60	260.00	-0.03	-0.04	0.03	0.13	0.11	140.48
405.00	0.12	317.15	405.00	0.08	-0.25	-0.07	0.07	0.03	36.24
582.00	0.75	100.80	582.00	-0.01	0.77	0.00	0.48	0.36	81.16
769.00	0.78	96.69	768.98	-0.38	3.23	0.34	0.03	0.02	-2.20
958.00	0.85	71.00	957.96	-0.08	5.84	0.00	0.20	0.04	-13.59
1,147.00	0.94	56.34	1,146.94	1.24	8.45	-1.35	0.13	0.05	-7.76

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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)
1,333.00	1.22	62.36	1,332.90	3.00	11.48	-3.16	0.16	0.15	3.24
1,519.00	0.40	178.92	1,518.89	3.27	13.24	-3.45	0.78	-0.44	62.67
1,706.00	0.29	231.38	1,705.89	2.32	12.88	-2.50	0.17	-0.06	28.05
1,893.00	0.45	249.48	1,892.88	1.77	11.83	-1.93	0.10	0.09	9.68
2,078.00	0.37	108.31	2,077.88	1.33	11.71	-1.49	0.42	-0.04	-76.31
2,265.00	1.07	126.05	2,264.87	0.11	13.70	-0.30	0.39	0.37	9.49
2,451.00	2.54	108.19	2,450.77	-2.20	19.02	1.94	0.84	0.79	-9.60
2,573.00	3.18	108.87	2,572.62	-4.14	24.79	3.80	0.53	0.52	0.56
2,644.00	3.48	110.86	2,643.50	-5.54	28.67	5.15	0.45	0.42	2.80
2,831.00	4.29	349.42	2,830.28	-0.68	32.69	0.24	3.63	0.43	-64.94
3,017.00	4.46	336.27	3,015.74	12.78	28.50	-13.16	0.55	0.09	-7.07
3,203.00	4.19	325.03	3,201.22	24.97	21.70	-25.26	0.48	-0.15	-6.04
3,389.00	4.28	324.49	3,386.71	36.19	13.77	-36.37	0.05	0.05	-0.29
3,575.00	4.03	315.89	3,572.22	46.53	5.19	-46.60	0.36	-0.13	-4.62
3,761.00	4.20	315.31	3,757.74	56.06	-4.15	-56.00	0.09	0.09	-0.31
3,947.00	4.36	311.63	3,943.22	65.60	-14.22	-65.41	0.17	0.09	-1.98
4,133.00	4.33	308.82	4,128.69	74.70	-24.98	-74.36	0.12	-0.02	-1.51
4,320.00	4.39	305.93	4,315.15	83.33	-36.27	-82.83	0.12	0.03	-1.55
4,507.00	4.16	305.00	4,501.63	91.42	-47.63	-90.77	0.13	-0.12	-0.50
4,694.00	1.67	274.79	4,688.38	95.54	-55.90	-94.78	1.52	-1.33	-16.16
4,880.00	1.24	271.65	4,874.32	95.82	-60.61	-95.00	0.24	-0.23	-1.69
5,066.00	1.07	260.43	5,060.28	95.59	-64.34	-94.72	0.15	-0.09	-6.03
5,253.00	1.21	259.50	5,247.25	94.94	-68.00	-94.02	0.08	0.07	-0.50
5,439.00	1.49	266.15	5,433.19	94.42	-72.34	-93.44	0.17	0.15	3.58
5,625.00	0.85	230.41	5,619.16	93.38	-75.82	-92.35	0.51	-0.34	-19.22
5,811.00	1.04	242.29	5,805.13	91.71	-78.38	-90.65	0.15	0.10	6.39
5,998.00	0.86	11.80	5,992.12	92.30	-79.59	-91.22	0.92	-0.10	69.26
6,184.00	0.39	27.55	6,178.11	94.23	-79.01	-93.16	0.27	-0.25	8.47
6,370.00	0.50	47.74	6,364.10	95.33	-78.12	-94.27	0.10	0.06	10.85
6,556.00	1.23	114.31	6,550.08	95.06	-75.70	-94.03	0.61	0.39	35.79
6,743.00	0.97	129.26	6,737.05	93.23	-72.65	-92.24	0.21	-0.14	7.99
6,929.00	0.73	169.56	6,923.03	91.07	-71.21	-90.10	0.34	-0.13	21.67
7,115.00	0.54	175.27	7,109.02	89.03	-70.92	-88.07	0.11	-0.10	3.07
7,301.00	1.85	156.26	7,294.98	85.41	-69.64	-84.46	0.73	0.70	-10.22
7,487.00	0.66	179.84	7,480.93	81.59	-68.43	-80.66	0.68	-0.64	12.68
7,674.00	1.30	186.49	7,667.90	78.40	-68.67	-77.47	0.35	0.34	3.56
7,860.00	1.03	346.43	7,853.89	77.93	-69.30	-76.99	1.23	-0.15	85.99
8,046.00	0.94	158.03	8,039.88	78.14	-69.12	-77.20	1.06	-0.05	92.26
8,231.00	1.31	175.86	8,224.84	74.62	-68.40	-73.70	0.27	0.20	9.64
8,417.00	1.14	191.16	8,410.80	70.69	-68.61	-69.76	0.20	-0.09	8.23
8,603.00	0.59	187.56	8,596.78	67.92	-69.09	-66.99	0.30	-0.30	-1.94
8,788.00	0.99	202.65	8,781.76	65.50	-69.83	-64.56	0.24	0.22	8.16
8,974.00	1.41	214.26	8,967.72	62.13	-71.74	-61.16	0.26	0.23	6.24

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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)	
9,081.00	2.71	184.71	9,074.65	58.52	-72.69	-57.54	1.53	1.21	-27.62	
9,112.00	5.78	179.62	9,105.56	56.23	-72.74	-55.25	9.97	9.90	-16.42	
9,143.00	10.35	178.84	9,136.25	51.88	-72.67	-50.90	14.75	14.74	-2.52	
9,174.00	15.04	179.24	9,166.48	45.07	-72.56	-44.09	15.13	15.13	1.29	
9,205.00	19.27	179.70	9,196.09	35.93	-72.48	-34.95	13.65	13.65	1.48	
9,236.00	22.10	182.12	9,225.09	24.99	-72.67	-24.01	9.53	9.13	7.81	
9,267.00	24.16	183.47	9,253.60	12.82	-73.27	-11.84	6.86	6.65	4.35	
9,298.00	26.65	182.14	9,281.60	-0.46	-73.91	1.45	8.24	8.03	-4.29	
9,328.00	29.54	178.35	9,308.06	-14.58	-73.95	15.57	11.32	9.63	-12.63	
9,359.00	32.83	175.73	9,334.58	-30.60	-73.10	31.58	11.48	10.61	-8.45	
9,391.00	35.65	175.08	9,361.03	-48.55	-71.66	49.51	8.89	8.81	-2.03	
9,422.00	38.26	175.71	9,385.80	-67.12	-70.16	68.06	8.51	8.42	2.03	
9,453.00	40.26	179.20	9,409.81	-86.71	-69.31	87.64	9.61	6.45	11.26	
9,484.00	41.84	183.22	9,433.19	-107.06	-69.75	107.98	9.92	5.10	12.97	
9,514.00	44.62	183.97	9,455.05	-127.56	-71.04	128.51	9.42	9.27	2.50	
9,545.00	47.53	184.68	9,476.55	-149.82	-72.73	150.79	9.53	9.39	2.29	
9,576.00	50.56	184.58	9,496.87	-173.16	-74.62	174.14	9.78	9.77	-0.32	
9,607.00	52.36	182.54	9,516.18	-197.35	-76.12	198.36	7.76	5.81	-6.58	
9,638.00	55.81	181.16	9,534.36	-222.44	-76.92	223.46	11.70	11.13	-4.45	
9,671.00	59.71	181.14	9,551.97	-250.34	-77.48	251.36	11.82	11.82	-0.06	
9,702.00	63.89	181.15	9,566.61	-277.65	-78.03	278.68	13.48	13.48	0.03	
9,733.00	68.37	180.99	9,579.15	-305.99	-78.55	307.02	14.46	14.45	-0.52	
9,763.00	73.17	181.51	9,589.03	-334.30	-79.17	335.33	16.08	16.00	1.73	
9,793.00	76.47	181.30	9,596.89	-363.24	-79.88	364.28	11.02	11.00	-0.70	
9,871.00	78.40	181.95	9,613.85	-439.34	-82.04	440.40	2.60	2.47	0.83	
9,901.00	80.03	182.01	9,619.47	-468.79	-83.06	469.86	5.44	5.43	0.20	
9,932.00	81.40	181.88	9,624.47	-499.36	-84.10	500.45	4.44	4.42	-0.42	
9,963.00	81.90	181.79	9,628.97	-530.02	-85.08	531.12	1.64	1.61	-0.29	
9,995.00	82.91	181.63	9,633.20	-561.72	-86.03	562.83	3.19	3.16	-0.50	
10,025.00	84.04	181.64	9,636.61	-591.52	-86.88	592.63	3.77	3.77	0.03	
10,057.00	85.12	181.19	9,639.63	-623.36	-87.67	624.49	3.65	3.38	-1.41	
10,088.00	86.05	181.21	9,642.02	-654.27	-88.31	655.39	3.00	3.00	0.06	
10,119.00	86.95	180.72	9,643.91	-685.20	-88.83	686.33	3.30	2.90	-1.58	
10,150.00	88.48	180.66	9,645.15	-716.17	-89.21	717.31	4.94	4.94	-0.19	
10,181.00	90.20	180.54	9,645.50	-747.17	-89.53	748.31	5.56	5.55	-0.39	
10,212.00	90.87	180.93	9,645.21	-778.17	-89.93	779.30	2.50	2.16	1.26	
10,305.00	89.64	181.01	9,644.80	-871.15	-91.50	872.30	1.33	-1.32	0.09	
10,397.00	89.75	180.22	9,645.29	-963.14	-92.49	964.30	0.87	0.12	-0.86	
10,490.00	89.94	180.51	9,645.54	-1,056.14	-93.08	1,057.30	0.37	0.20	0.31	
10,583.00	89.52	180.13	9,645.98	-1,149.14	-93.60	1,150.29	0.61	-0.45	-0.41	
10,677.00	89.78	180.54	9,646.55	-1,243.13	-94.15	1,244.29	0.52	0.28	0.44	
10,770.00	89.80	180.09	9,646.89	-1,336.13	-94.66	1,337.28	0.48	0.02	-0.48	
10,863.00	90.39	179.34	9,646.74	-1,429.13	-94.20	1,430.27	1.03	0.63	-0.81	
10,956.00	90.14	178.42	9,646.31	-1,522.11	-92.38	1,523.21	1.03	-0.27	-0.99	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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)
11,049.00	90.11	178.85	9,646.11	-1,615.08	-90.17	1,616.15	0.46	-0.03	0.46
11,141.00	90.45	179.13	9,645.66	-1,707.07	-88.55	1,708.10	0.48	0.37	0.30
11,234.00	90.87	179.37	9,644.59	-1,800.05	-87.33	1,801.06	0.52	0.45	0.26
11,329.00	90.50	179.03	9,643.45	-1,895.04	-86.00	1,896.02	0.53	-0.39	-0.36
11,423.00	90.62	179.19	9,642.53	-1,989.02	-84.54	1,989.98	0.21	0.13	0.17
11,517.00	91.06	179.05	9,641.15	-2,083.00	-83.10	2,083.93	0.49	0.47	-0.15
11,610.00	90.48	179.41	9,639.90	-2,175.98	-81.85	2,176.88	0.73	-0.62	0.39
11,703.00	90.73	179.28	9,638.92	-2,268.97	-80.79	2,269.85	0.30	0.27	-0.14
11,796.00	90.87	178.85	9,637.62	-2,361.95	-79.27	2,362.80	0.49	0.15	-0.46
11,889.00	91.74	179.47	9,635.51	-2,454.91	-77.91	2,455.74	1.15	0.94	0.67
11,983.00	90.76	179.22	9,633.45	-2,548.88	-76.83	2,549.69	1.08	-1.04	-0.27
12,076.00	89.94	180.16	9,632.89	-2,641.88	-76.33	2,642.67	1.34	-0.88	1.01
12,170.00	89.55	183.67	9,633.31	-2,735.81	-79.47	2,736.63	3.76	-0.41	3.73
12,262.00	89.58	186.52	9,634.00	-2,827.43	-87.64	2,828.36	3.10	0.03	3.10
12,355.00	89.52	186.29	9,634.73	-2,919.85	-98.01	2,920.90	0.26	-0.06	-0.25
12,448.00	89.92	182.89	9,635.19	-3,012.54	-105.45	3,013.68	3.68	0.43	-3.66
12,541.00	89.72	181.28	9,635.48	-3,105.47	-108.84	3,106.65	1.74	-0.22	-1.73
12,634.00	90.53	181.08	9,635.28	-3,198.45	-110.75	3,199.65	0.90	0.87	-0.22
12,727.00	89.92	179.79	9,634.91	-3,291.45	-111.46	3,292.65	1.53	-0.66	-1.39
12,819.00	87.53	180.04	9,636.96	-3,383.42	-111.32	3,384.61	2.61	-2.60	0.27
12,850.00	87.65	180.22	9,638.26	-3,414.39	-111.39	3,415.58	0.70	0.39	0.58
12,881.00	88.29	180.19	9,639.36	-3,445.37	-111.50	3,446.56	2.07	2.06	-0.10
12,912.00	89.27	180.41	9,640.02	-3,476.36	-111.66	3,477.55	3.24	3.16	0.71
12,943.00	91.77	180.39	9,639.74	-3,507.36	-111.88	3,508.54	8.06	8.06	-0.06
13,005.00	92.78	182.86	9,637.28	-3,569.28	-113.64	3,570.48	4.30	1.63	3.98
13,098.00	91.91	180.55	9,633.47	-3,662.15	-116.40	3,663.38	2.65	-0.94	-2.48
13,191.00	90.87	179.28	9,631.22	-3,755.12	-116.26	3,756.34	1.76	-1.12	-1.37
13,284.00	91.88	179.37	9,628.99	-3,848.09	-115.17	3,849.29	1.09	1.09	0.10
13,378.00	90.76	181.00	9,626.82	-3,942.06	-115.47	3,943.25	2.10	-1.19	1.73
13,471.00	90.34	179.72	9,625.93	-4,035.05	-116.06	4,036.24	1.45	-0.45	-1.38
13,563.00	91.09	180.03	9,624.78	-4,127.04	-115.86	4,128.22	0.88	0.82	0.34
13,656.00	90.14	179.23	9,623.78	-4,220.03	-115.25	4,221.20	1.34	-1.02	-0.86
13,749.00	89.58	179.12	9,624.01	-4,313.02	-113.92	4,314.16	0.61	-0.60	-0.12
13,842.00	90.48	180.88	9,623.96	-4,406.02	-113.92	4,407.15	2.13	0.97	1.89
13,935.00	90.36	180.64	9,623.28	-4,499.00	-115.15	4,500.15	0.29	-0.13	-0.26
14,027.00	91.40	181.37	9,621.86	-4,590.98	-116.76	4,592.13	1.38	1.13	0.79
14,120.00	90.25	181.74	9,620.53	-4,683.93	-119.29	4,685.11	1.30	-1.24	0.40
14,213.00	90.39	180.17	9,620.01	-4,776.91	-120.84	4,778.11	1.69	0.15	-1.69
14,306.00	89.92	178.79	9,619.75	-4,869.91	-119.99	4,871.08	1.57	-0.51	-1.48
14,400.00	89.13	178.48	9,620.53	-4,963.88	-117.75	4,965.01	0.90	-0.84	-0.33
14,495.00	89.55	178.86	9,621.63	-5,058.85	-115.55	5,059.94	0.60	0.44	0.40
14,587.00	89.92	179.63	9,622.05	-5,150.84	-114.34	5,151.91	0.93	0.40	0.84
14,680.00	88.38	179.10	9,623.43	-5,243.82	-113.31	5,244.87	1.75	-1.66	-0.57

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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)
14,712.00	88.82	179.26	9,624.22	-5,275.80	-112.85	5,276.84	1.46	1.38	0.50
14,743.00	90.00	179.45	9,624.53	-5,306.80	-112.50	5,307.83	3.86	3.81	0.61
14,774.00	91.12	179.80	9,624.23	-5,337.80	-112.30	5,338.82	3.79	3.61	1.13
14,806.00	92.27	179.93	9,623.28	-5,369.78	-112.22	5,370.80	3.62	3.59	0.41
14,837.00	92.24	180.10	9,622.07	-5,400.76	-112.23	5,401.78	0.56	-0.10	0.55
14,869.00	92.13	180.31	9,620.85	-5,432.73	-112.34	5,433.75	0.74	-0.34	0.66
14,900.00	92.33	180.42	9,619.64	-5,463.71	-112.54	5,464.73	0.74	0.65	0.35
14,963.00	91.54	180.08	9,617.51	-5,526.67	-112.81	5,527.69	1.37	-1.25	-0.54
15,056.00	89.66	180.19	9,616.54	-5,619.66	-113.03	5,620.68	2.02	-2.02	0.12
15,087.00	92.27	180.35	9,616.02	-5,650.66	-113.18	5,651.67	8.44	8.42	0.52
15,153.00	92.19	180.14	9,613.45	-5,716.61	-113.46	5,717.61	0.34	-0.12	-0.32
15,246.00	91.77	180.11	9,610.23	-5,809.55	-113.66	5,810.55	0.45	-0.45	-0.03
15,339.00	91.68	179.94	9,607.43	-5,902.51	-113.71	5,903.50	0.21	-0.10	-0.18
15,432.00	91.68	179.61	9,604.71	-5,995.47	-113.34	5,996.45	0.35	0.00	-0.35
15,525.00	91.20	179.95	9,602.37	-6,088.44	-112.98	6,089.40	0.63	-0.52	0.37
15,618.00	90.78	180.29	9,600.76	-6,181.42	-113.18	6,182.38	0.58	-0.45	0.37
15,710.00	90.34	180.86	9,599.87	-6,273.41	-114.10	6,274.38	0.78	-0.48	0.62
15,804.00	90.14	180.11	9,599.47	-6,367.41	-114.90	6,368.38	0.83	-0.21	-0.80
15,898.00	90.39	181.16	9,599.04	-6,461.40	-115.94	6,462.37	1.15	0.27	1.12
15,991.00	90.06	180.69	9,598.67	-6,554.39	-117.44	6,555.37	0.62	-0.35	-0.51
16,084.00	90.39	180.48	9,598.31	-6,647.38	-118.39	6,648.37	0.42	0.35	-0.23
16,177.00	90.03	180.86	9,597.97	-6,740.37	-119.48	6,741.37	0.56	-0.39	0.41
16,269.00	90.59	180.90	9,597.47	-6,832.36	-120.89	6,833.37	0.61	0.61	0.04
16,363.00	91.37	181.28	9,595.86	-6,926.33	-122.68	6,927.35	0.92	0.83	0.40
16,452.00	91.71	180.55	9,593.47	-7,015.28	-124.10	7,016.32	0.90	0.38	-0.82
16,544.00	93.67	180.96	9,589.15	-7,107.17	-125.31	7,108.21	2.18	2.13	0.45
16,575.00	93.84	180.84	9,587.12	-7,138.10	-125.79	7,139.15	0.67	0.55	-0.39
16,606.00	91.60	180.08	9,585.65	-7,169.06	-126.04	7,170.11	7.63	-7.23	-2.45
16,637.00	89.66	179.77	9,585.31	-7,200.06	-126.00	7,201.10	6.34	-6.26	-1.00
16,668.00	85.99	178.45	9,586.48	-7,231.03	-125.52	7,232.06	12.58	-11.84	-4.26
16,699.00	83.29	177.89	9,589.38	-7,261.87	-124.54	7,262.89	8.89	-8.71	-1.81
16,730.00	80.31	176.89	9,593.80	-7,292.52	-123.14	7,293.52	10.13	-9.61	-3.23
16,762.00	77.78	176.94	9,599.88	-7,323.89	-121.45	7,324.86	7.91	-7.91	0.16
16,793.00	78.61	178.07	9,606.22	-7,354.20	-120.13	7,355.15	4.46	2.68	3.65
16,824.00	80.34	179.58	9,611.89	-7,384.67	-119.51	7,385.61	7.35	5.58	4.87
16,855.00	82.10	181.22	9,616.62	-7,415.31	-119.72	7,416.25	7.72	5.68	5.29
16,886.00	83.91	182.76	9,620.39	-7,446.05	-120.79	7,447.01	7.64	5.84	4.97
16,918.00	85.51	182.58	9,623.34	-7,477.88	-122.27	7,478.85	5.03	5.00	-0.56
16,949.00	88.29	182.68	9,625.02	-7,508.80	-123.69	7,509.79	8.97	8.97	0.32
16,981.00	90.70	183.18	9,625.30	-7,540.76	-125.33	7,541.76	7.69	7.53	1.56
17,013.00	92.33	184.54	9,624.46	-7,572.67	-127.48	7,573.70	6.63	5.09	4.25
17,045.00	91.60	185.81	9,623.36	-7,604.52	-130.37	7,605.59	4.58	-2.28	3.97
17,076.00	91.88	184.84	9,622.42	-7,635.37	-133.24	7,636.47	3.26	0.90	-3.13

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (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)
17,108.00	92.24	183.69	9,621.27	-7,667.26	-135.62	7,668.39	3.76	1.13	-3.59
17,140.00	93.31	181.86	9,619.72	-7,699.19	-137.17	7,700.33	6.62	3.34	-5.72
17,171.00	93.31	182.91	9,617.93	-7,730.11	-138.46	7,731.27	3.38	0.00	3.39
17,203.00	93.17	182.10	9,616.12	-7,762.02	-139.85	7,763.20	2.56	-0.44	-2.53
17,235.00	93.14	181.35	9,614.36	-7,793.96	-140.82	7,795.15	2.34	-0.09	-2.34
17,266.00	93.39	181.55	9,612.59	-7,824.90	-141.60	7,826.10	1.03	0.81	0.65
17,298.00	93.14	181.52	9,610.77	-7,856.84	-142.45	7,858.04	0.79	-0.78	-0.09
17,329.00	93.11	180.22	9,609.08	-7,887.79	-142.92	7,889.00	4.19	-0.10	-4.19
17,361.00	93.20	180.37	9,607.32	-7,919.74	-143.09	7,920.95	0.55	0.28	0.47
17,393.00	93.31	180.52	9,605.50	-7,951.69	-143.34	7,952.89	0.58	0.34	0.47
17,424.00	93.19	180.52	9,603.75	-7,982.63	-143.62	7,983.84	0.39	-0.39	0.00
17,456.00	93.11	180.65	9,601.99	-8,014.58	-143.94	8,015.80	0.48	-0.25	0.41
17,488.00	93.00	180.42	9,600.28	-8,046.54	-144.24	8,047.75	0.80	-0.34	-0.72
17,582.00	91.20	181.55	9,596.84	-8,140.46	-145.86	8,141.68	2.26	-1.91	1.20
17,677.00	91.46	180.60	9,594.63	-8,235.41	-147.64	8,236.65	1.04	0.27	-1.00
17,772.00	90.67	181.00	9,592.87	-8,330.39	-148.97	8,331.64	0.93	-0.83	0.42
17,867.00	90.45	178.27	9,591.94	-8,425.37	-148.36	8,426.60	2.88	-0.23	-2.87
17,962.00	90.53	178.64	9,591.12	-8,520.33	-145.80	8,521.52	0.40	0.08	0.39
18,057.00	90.64	178.82	9,590.15	-8,615.30	-143.69	8,616.46	0.22	0.12	0.19
18,151.00	90.20	176.25	9,589.47	-8,709.21	-139.65	8,710.30	2.77	-0.47	-2.73
18,246.00	89.09	177.94	9,590.05	-8,804.08	-134.84	8,805.09	2.13	-1.17	1.78
18,341.00	89.72	181.19	9,591.04	-8,899.06	-134.12	8,900.05	3.48	0.66	3.42
18,435.00	91.57	180.55	9,589.98	-8,993.03	-135.54	8,994.04	2.08	1.97	-0.68
18,530.00	91.34	181.08	9,587.57	-9,087.99	-136.89	9,089.01	0.61	-0.24	0.56
18,625.00	91.32	180.97	9,585.37	-9,182.95	-138.59	9,183.99	0.12	-0.02	-0.12
18,720.00	92.07	181.19	9,582.56	-9,277.89	-140.38	9,278.94	0.82	0.79	0.23
18,815.00	91.32	180.23	9,579.75	-9,372.84	-141.56	9,373.90	1.28	-0.79	-1.01
18,910.00	90.39	179.54	9,578.33	-9,467.83	-141.37	9,468.88	1.22	-0.98	-0.73
19,005.00	89.72	180.08	9,578.24	-9,562.83	-141.05	9,563.86	0.91	-0.71	0.57
19,100.00	91.26	181.61	9,577.42	-9,657.81	-142.45	9,658.85	2.29	1.62	1.61
19,195.00	90.87	180.73	9,575.66	-9,752.77	-144.39	9,753.83	1.01	-0.41	-0.93
19,289.00	89.69	181.72	9,575.20	-9,846.75	-146.40	9,847.83	1.64	-1.26	1.05
19,384.00	90.00	180.15	9,575.46	-9,941.73	-147.95	9,942.82	1.68	0.33	-1.65
19,479.00	91.65	181.42	9,574.09	-10,036.71	-149.25	10,037.81	2.19	1.74	1.34
19,503.00	91.46	180.57	9,573.44	-10,060.69	-149.67	10,061.80	3.63	-0.79	-3.54
Last MWD Survey @ 19503'									
19,526.12	91.46	180.57	9,572.85	-10,083.81	-149.90	10,084.91	0.00	0.00	0.00
Delaware Ranch 1H PBHL									
19,541.00	91.46	180.57	9,572.47	-10,098.68	-150.05	10,099.78	0.00	0.00	0.00
PTB @ 19541'									

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2969.00usft (Patterson 564)
Well:	1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
198.00	198.00	-0.02	0.00	First MWD Survey
19,503.00	9,573.44	-10,060.69	-149.67	Last MWD Survey @ 19503'
19,541.00	9,572.47	-10,098.68	-150.05	PTB @ 19541'

Checked By: _____	Approved By: _____	Date: _____
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