

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 30-015-46280	² Pool Code 98220	³ Pool Name Purple Sage Wolfcamp
⁴ Property Code 326106	⁵ Property Name DELAWARE RANCH 13/24 W1CN FED COM	
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁶ Well Number 2H
		⁹ Elevation 2941'

¹⁰ Surface Location

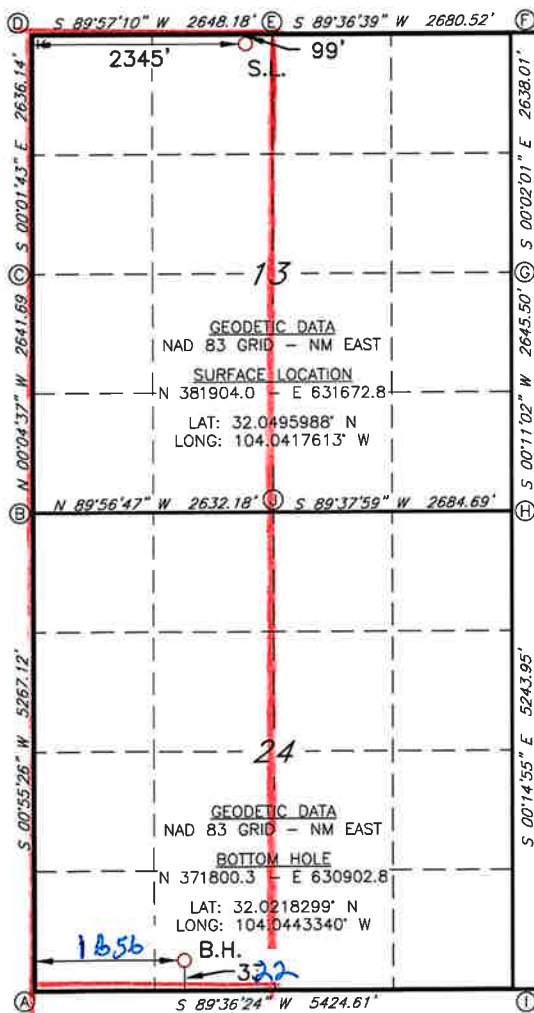
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	13	26S	28E		99	NORTH	2345	WEST	EDDY

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		322	SOUTH	1656	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: Ruby Caballero
Date: 3/19/20
Printed Name: Ruby Caballero
E-mail Address: rcaballero@newbourne.com

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.:

LS19020145

Intent ☐ As Drilled ☒

API # 30-015-46280			
Operator Name: Mewbourne Oil Company		Property Name: Delaware Ranch 13/24 W1CN Fed Com	Well Number 2H

Kick Off Point (KOP)

UL C	Section 13	Township 26S	Range 28E	Lot	Feet 22	From N/S North	Feet 1652	From E/W West	County Eddy
Latitude 32.0498134					Longitude -104.0439968				NAD 83

First Take Point (FTP)

UL C	Section 13	Township 26S	Range 28E	Lot	Feet 442	From N/S North	Feet 1663	From E/W West	County Eddy
Latitude 32.0486588					Longitude -104.0439644				NAD 83

Last Take Point (LTP)

UL N	Section 24	Township 26S	Range 28E	Lot	Feet 436	From N/S FSL	Feet 1656	From E/W FWL	County Eddy
Latitude 32.0221213					Longitude -104.0443051				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 # 30-015-46304			
Operator Name: Mewbourne Oil		Property Name: Delaware Ranch 13/24 W1 DM F.C.	Well Number 1H

KZ 06/29/2018



Mewbourne Oil Company

Patterson 564

**Delaware Ranch W1CN Fed Com 2H
(AEP19206)**

2019-09-16 to 2019-11-23

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

Job Type
Directional

ST01 Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Delaware Ranch 13°24' W/CN Fed Com
 Well: 2H
 Wellbore: ST01
 Design: Plan #1
 Lot: 32.049599
 Long: -104.041761
 GL: 2940.00
 KB: RKB-28 @ 2948.00udf (Patterson 564)



WELL DETAILS: 2H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	381904.00	631672.80	32.049599	-104.041761

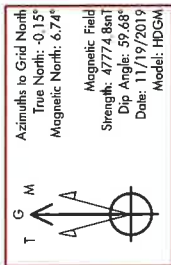
WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape Point
Delaware Ranch 2H PBHL	9828.00	-10103.70	-770.00	371800.30	630902.80	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TTrace	VSet	Annotation
17774.00	89.66	180.22	9846.29	-8030.86	-759.85	0.00	0.00	8045.38	Build/ Turn 3°/100'
17853.12	90.50	178.00	9846.18	-8109.96	-758.62	3.00	-69.28	8144.16	300' Hold
18153.12	90.50	178.00	9843.56	-8409.77	-748.15	0.00	0.00	8442.30	Build/ Turn 2°/100'
18200.29	91.00	178.80	9846.91	-8456.91	-746.83	2.00	57.99	8489.21	300' Hold
18500.29	91.00	178.80	9837.71	-8758.80	-740.55	0.00	0.00	8787.75	Drop/ Turn 1°/100'
18632.89	90.38	181.38	9836.11	-8889.38	-740.76	2.00	103.45	8919.97	1215' Hold
19847.59	90.38	181.38	9828.00	-10103.70	-770.00	0.00	0.00	10133.00	ID at 19847.59

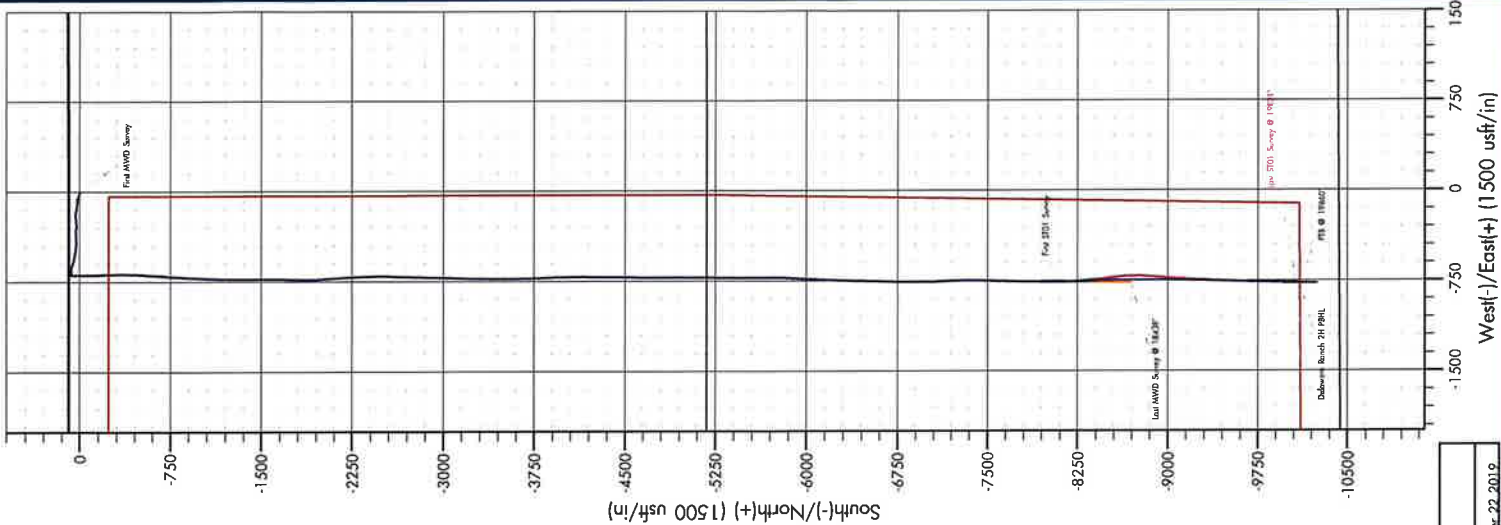
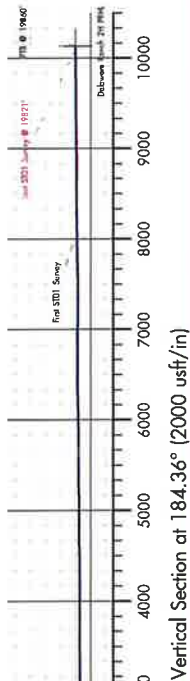
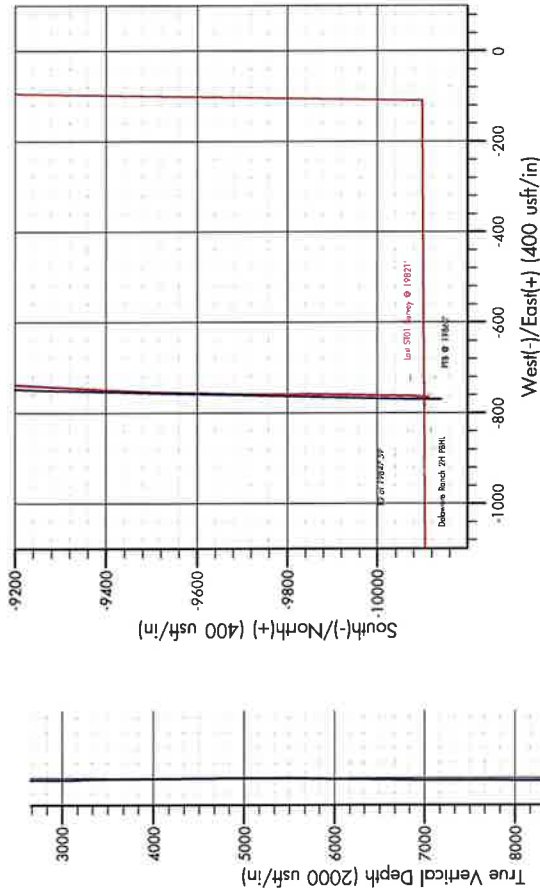
Formation Tops
 No formation data is available



2H SHL:
 99' FNL & 2345' FWL

2H PBHL:
 330' FSL & 1650'
 FWL

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





MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)
Delaware Ranch 13-24 W1CN Fed Com
2H

ST01

Design: ST01

Standard Survey Report

22 November, 2019



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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	2H					
Well Position	+N/-S	0.00 usft	Northing:	381,904.00 usft	Latitude:	32.049599
	+E/-W	0.00 usft	Easting:	631,672.80 usft	Longitude:	-104.041762
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,940.00 usft

Wellbore	ST01					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)	
	HDGM	11/19/19	6.90	59.68	47,774.80000000	

Design	ST01				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	17,774.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	185.34	

Survey Program	Date	11/22/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.00	17,774.00	MWD Survey (OH)	MWD	OWSG MWD - Standard	
17,800.00	19,860.00	MWD Survey (ST01)	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	0.06	272.80	100.00	0.00	-0.05	0.00	0.06	0.06	0.00	
200.00	0.12	63.20	200.00	0.05	-0.01	-0.05	0.17	0.06	150.40	
300.00	0.16	183.70	300.00	-0.04	0.07	0.03	0.24	0.04	120.50	
493.00	0.78	295.68	492.99	0.26	-1.13	-0.15	0.44	0.32	58.02	
673.00	1.09	290.13	672.97	1.38	-3.84	-1.02	0.18	0.17	-3.08	
866.00	3.35	297.90	865.81	4.65	-10.55	-3.65	1.18	1.17	4.03	
1,055.00	5.87	288.19	1,054.19	10.25	-24.61	-7.92	1.39	1.33	-5.14	
1,244.00	6.24	285.78	1,242.13	16.06	-43.68	-11.93	0.24	0.20	-1.28	
1,435.00	6.97	278.63	1,431.87	20.63	-65.13	-14.48	0.58	0.38	-3.74	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
1,625.00	6.93	277.79	1,620.47	23.91	-87.88	-15.63	0.06	-0.02	-0.44
1,817.00	6.84	276.79	1,811.09	26.83	-110.71	-16.41	0.08	-0.05	-0.52
2,006.00	5.82	275.37	1,998.93	29.06	-131.43	-16.70	0.55	-0.54	-0.75
2,194.00	4.97	279.53	2,186.10	31.30	-148.95	-17.30	0.50	-0.45	2.21
2,380.00	2.49	285.84	2,371.69	33.74	-160.78	-18.63	1.35	-1.33	3.39
2,557.00	3.66	273.52	2,548.44	35.13	-170.12	-19.15	0.76	0.66	-6.96
2,762.00	5.87	272.10	2,752.71	35.92	-187.13	-18.35	1.08	1.08	-0.69
2,947.00	7.32	267.12	2,936.49	35.67	-208.36	-16.13	0.84	0.78	-2.69
3,133.00	7.49	264.74	3,120.94	33.97	-232.26	-12.21	0.19	0.09	-1.28
3,320.00	5.15	263.46	3,306.79	31.89	-252.74	-8.24	1.25	-1.25	-0.68
3,506.00	5.13	262.99	3,492.04	29.93	-269.29	-4.74	0.03	-0.01	-0.25
3,693.00	6.54	277.65	3,678.08	30.32	-288.14	-3.38	1.09	0.75	7.84
3,879.00	7.91	280.39	3,862.60	34.04	-311.23	-4.93	0.76	0.74	1.47
4,065.00	6.59	263.72	4,047.12	35.18	-334.43	-3.91	1.33	-0.71	-8.96
4,251.00	6.55	263.53	4,231.90	32.82	-355.58	0.41	0.02	-0.02	-0.10
4,437.00	5.58	267.03	4,416.86	31.16	-375.15	3.89	0.56	-0.52	1.88
4,622.00	5.85	268.51	4,600.94	30.45	-393.56	6.31	0.17	0.15	0.80
4,809.00	5.91	271.52	4,786.96	30.45	-412.71	8.08	0.17	0.03	1.61
4,995.00	5.59	272.73	4,972.02	31.14	-431.33	9.13	0.18	-0.17	0.65
5,182.00	6.38	277.49	5,158.00	32.93	-450.73	9.16	0.50	0.42	2.55
5,369.00	6.21	275.51	5,343.87	35.25	-471.10	8.74	0.15	-0.09	-1.06
5,555.00	5.72	275.76	5,528.87	37.15	-490.33	8.64	0.26	-0.26	0.13
5,742.00	6.07	286.68	5,714.88	40.92	-509.08	6.63	0.63	0.19	5.84
5,928.00	5.70	283.45	5,899.90	45.89	-527.48	3.39	0.27	-0.20	-1.74
6,114.00	5.21	278.86	6,085.06	49.34	-544.81	1.57	0.35	-0.26	-2.47
6,300.00	5.50	278.92	6,270.25	52.02	-561.96	0.49	0.16	0.16	0.03
6,487.00	4.06	282.76	6,456.59	54.88	-577.27	-0.92	0.79	-0.77	2.05
6,672.00	6.23	293.30	6,640.84	60.29	-592.88	-4.86	1.27	1.17	5.70
6,860.00	4.65	285.23	6,827.99	66.33	-609.60	-9.32	0.93	-0.84	-4.29
7,046.00	5.13	283.88	7,013.31	70.31	-624.95	-11.85	0.27	0.26	-0.73
7,232.00	3.28	270.37	7,198.81	72.34	-638.35	-12.62	1.12	-0.99	-7.26
7,418.00	2.62	275.48	7,384.56	72.78	-647.90	-12.17	0.38	-0.35	2.75
7,605.00	2.81	267.17	7,571.35	72.96	-656.73	-11.53	0.23	0.10	-4.44
7,791.00	2.99	270.31	7,757.12	72.76	-666.14	-10.46	0.13	0.10	1.69
7,977.00	2.10	281.61	7,942.93	73.47	-674.32	-10.40	0.55	-0.48	6.08
8,163.00	1.92	305.78	8,128.82	75.98	-680.19	-12.35	0.46	-0.10	12.99
8,349.00	2.15	299.99	8,314.70	79.55	-685.74	-15.39	0.17	0.12	-3.11
8,535.00	1.99	336.92	8,500.59	84.26	-690.03	-19.68	0.71	-0.09	19.85
8,722.00	0.52	267.83	8,687.55	87.22	-692.15	-22.43	1.00	-0.79	-36.95
8,908.00	1.14	159.26	8,873.53	85.45	-692.34	-20.66	0.75	0.33	-58.37
9,094.00	0.89	179.06	9,059.50	82.28	-691.66	-17.56	0.23	-0.13	10.65
9,301.00	1.14	208.13	9,266.47	78.86	-692.60	-14.06	0.27	0.12	14.04
9,364.00	3.13	176.32	9,329.43	76.59	-692.79	-11.79	3.56	3.16	-50.49

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
9,394.00	6.37	174.47	9,359.32	74.11	-692.58	-9.34	10.81	10.80	-6.17
9,425.00	9.71	175.89	9,390.01	69.79	-692.22	-5.07	10.79	10.77	4.58
9,456.00	13.13	178.62	9,420.39	63.66	-691.95	1.01	11.17	11.03	8.81
9,487.00	16.14	180.90	9,450.38	55.83	-691.93	8.80	9.88	9.71	7.35
9,518.00	19.93	179.99	9,479.86	46.24	-692.00	18.36	12.26	12.23	-2.94
9,549.00	22.56	176.41	9,508.75	35.02	-691.63	29.50	9.46	8.48	-11.55
9,581.00	24.80	177.23	9,538.05	22.18	-690.92	42.21	7.08	7.00	2.56
9,611.00	28.48	177.96	9,564.86	8.75	-690.36	55.53	12.31	12.27	2.43
9,642.00	31.55	177.60	9,591.70	-6.75	-689.76	70.90	9.92	9.90	-1.16
9,672.00	34.59	179.39	9,616.84	-23.11	-689.34	87.15	10.64	10.13	5.97
9,703.00	38.69	180.87	9,641.71	-41.60	-689.39	105.57	13.53	13.23	4.77
9,734.00	42.24	180.77	9,665.29	-61.72	-689.68	125.63	11.45	11.45	-0.32
9,765.00	43.81	178.99	9,687.95	-82.87	-689.63	146.68	6.40	5.06	-5.74
9,796.00	46.76	179.29	9,709.76	-104.89	-689.30	168.58	9.54	9.52	0.97
9,827.00	50.43	178.07	9,730.26	-128.13	-688.76	191.67	12.20	11.84	-3.94
9,858.00	52.98	178.34	9,749.47	-152.45	-688.00	215.81	8.25	8.23	0.87
9,889.00	55.39	178.65	9,767.61	-177.57	-687.34	240.76	7.82	7.77	1.00
9,920.00	57.87	177.29	9,784.66	-203.44	-686.41	266.44	8.80	8.00	-4.39
9,951.00	61.31	177.31	9,800.35	-230.15	-685.16	292.90	11.10	11.10	0.06
9,982.00	63.40	177.56	9,814.73	-257.58	-683.93	320.10	6.78	6.74	0.81
10,013.00	65.64	178.37	9,828.07	-285.54	-682.94	347.85	7.60	7.23	2.61
10,044.00	67.67	179.50	9,840.35	-314.00	-682.41	376.14	7.35	6.55	3.65
10,075.00	70.66	180.81	9,851.38	-342.97	-682.49	404.99	10.42	9.65	4.23
10,106.00	72.78	181.23	9,861.10	-372.40	-683.01	434.34	6.96	6.84	1.35
10,137.00	74.62	181.50	9,869.80	-402.14	-683.72	464.02	5.99	5.94	0.87
10,168.00	76.59	181.77	9,877.51	-432.15	-684.58	493.98	6.41	6.35	0.87
10,242.00	80.82	182.39	9,892.00	-504.65	-687.22	566.41	5.77	5.72	0.84
10,273.00	81.83	182.58	9,896.67	-535.27	-688.55	597.02	3.31	3.26	0.61
10,304.00	83.14	183.16	9,900.73	-565.97	-690.08	627.73	4.61	4.23	1.87
10,335.00	84.49	183.15	9,904.07	-596.74	-691.78	658.52	4.35	4.35	-0.03
10,366.00	85.94	183.68	9,906.65	-627.57	-693.62	689.40	4.98	4.68	1.71
10,397.00	87.84	184.42	9,908.34	-658.45	-695.81	720.34	6.58	6.13	2.39
10,428.00	89.38	184.87	9,909.09	-689.34	-698.32	751.33	5.18	4.97	1.45
10,490.00	90.03	184.75	9,909.41	-751.12	-703.52	813.32	1.07	1.05	-0.19
10,583.00	90.20	183.45	9,909.22	-843.88	-710.17	906.30	1.41	0.18	-1.40
10,676.00	89.92	183.35	9,909.12	-936.71	-715.68	999.25	0.32	-0.30	-0.11
10,770.00	90.48	182.32	9,908.79	-1,030.60	-720.33	1,093.16	1.25	0.60	-1.10
10,863.00	90.87	182.13	9,907.70	-1,123.52	-723.94	1,186.01	0.47	0.42	-0.20
10,955.00	91.09	182.38	9,906.13	-1,215.43	-727.56	1,277.86	0.36	0.24	0.27
11,048.00	90.45	178.60	9,904.88	-1,308.41	-728.35	1,370.51	4.12	-0.69	-4.06
11,141.00	90.70	178.88	9,903.94	-1,401.38	-726.31	1,462.88	0.40	0.27	0.30
11,235.00	90.39	179.44	9,903.05	-1,495.36	-724.93	1,556.33	0.68	-0.33	0.60
11,329.00	90.62	180.73	9,902.22	-1,589.36	-725.07	1,649.93	1.39	0.24	1.37

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
11,423.00	90.70	182.10	9,901.14	-1,683.32	-727.39	1,743.70	1.46	0.09	1.46
11,516.00	90.39	181.84	9,900.25	-1,776.26	-730.59	1,836.54	0.44	-0.33	-0.28
11,578.00	90.73	180.77	9,899.65	-1,838.24	-732.00	1,898.38	1.81	0.55	-1.73
11,609.00	90.90	179.57	9,899.20	-1,869.24	-732.09	1,929.25	3.91	0.55	-3.87
11,640.00	91.62	178.88	9,898.52	-1,900.23	-731.67	1,960.07	3.22	2.32	-2.23
11,703.00	91.65	176.90	9,896.73	-1,963.15	-729.35	2,022.51	3.14	0.05	-3.14
11,796.00	92.02	175.88	9,893.75	-2,055.92	-723.50	2,114.33	1.17	0.40	-1.10
11,889.00	91.29	175.53	9,891.06	-2,148.62	-716.54	2,205.98	0.87	-0.78	-0.38
11,983.00	90.93	177.32	9,889.24	-2,242.42	-710.68	2,298.82	1.94	-0.38	1.90
12,076.00	90.56	177.98	9,888.03	-2,335.33	-706.87	2,390.97	0.81	-0.40	0.71
12,169.00	90.14	179.29	9,887.46	-2,428.30	-704.65	2,483.33	1.48	-0.45	1.41
12,262.00	90.28	180.87	9,887.12	-2,521.30	-704.78	2,575.94	1.71	0.15	1.70
12,355.00	90.39	182.00	9,886.58	-2,614.26	-707.11	2,668.72	1.22	0.12	1.22
12,447.00	90.48	181.33	9,885.88	-2,706.22	-709.78	2,760.53	0.73	0.10	-0.73
12,540.00	90.45	181.61	9,885.13	-2,799.19	-712.17	2,853.31	0.30	-0.03	0.30
12,633.00	90.67	181.64	9,884.22	-2,892.15	-714.81	2,946.11	0.24	0.24	0.03
12,726.00	90.31	180.84	9,883.42	-2,985.12	-716.82	3,038.87	0.94	-0.39	-0.86
12,818.00	92.46	182.96	9,881.20	-3,077.03	-719.87	3,130.67	3.28	2.34	2.30
12,912.00	91.07	182.59	9,878.30	-3,170.87	-724.42	3,224.53	1.53	-1.48	-0.39
13,005.00	89.52	179.71	9,877.82	-3,263.84	-726.28	3,317.26	3.52	-1.67	-3.10
13,098.00	90.11	179.36	9,878.12	-3,356.84	-725.53	3,409.79	0.74	0.63	-0.38
13,191.00	90.56	179.98	9,877.58	-3,449.83	-724.99	3,502.33	0.82	0.48	0.67
13,285.00	89.97	180.37	9,877.14	-3,543.83	-725.28	3,595.95	0.75	-0.63	0.41
13,377.00	89.80	179.89	9,877.33	-3,635.83	-725.49	3,687.57	0.55	-0.18	-0.52
13,470.00	88.88	178.12	9,878.40	-3,728.81	-723.87	3,779.99	2.14	-0.99	-1.90
13,563.00	89.83	176.92	9,879.45	-3,821.71	-719.85	3,872.11	1.65	1.02	-1.29
13,656.00	90.42	177.55	9,879.24	-3,914.60	-715.36	3,964.18	0.93	0.63	0.68
13,749.00	88.85	178.74	9,879.84	-4,007.55	-712.35	4,056.44	2.12	-1.69	1.28
13,841.00	90.70	180.21	9,880.20	-4,099.53	-711.51	4,147.96	2.57	2.01	1.60
13,934.00	89.97	180.71	9,879.65	-4,192.53	-712.26	4,240.62	0.95	-0.78	0.54
14,027.00	89.69	180.77	9,879.93	-4,285.52	-713.46	4,333.32	0.31	-0.30	0.06
14,120.00	90.81	180.21	9,879.52	-4,378.51	-714.25	4,425.98	1.35	1.20	-0.60
14,213.00	91.18	180.23	9,877.91	-4,471.50	-714.61	4,518.60	0.40	0.40	0.02
14,307.00	91.40	180.88	9,875.79	-4,565.47	-715.52	4,612.24	0.73	0.23	0.69
14,401.00	91.06	180.64	9,873.78	-4,659.44	-716.77	4,705.92	0.44	-0.36	-0.26
14,494.00	89.94	180.39	9,872.96	-4,752.43	-717.60	4,798.59	1.23	-1.20	-0.27
14,587.00	90.03	179.62	9,872.99	-4,845.43	-717.61	4,891.18	0.83	0.10	-0.83
14,681.00	91.04	180.05	9,872.11	-4,939.43	-717.34	4,984.75	1.17	1.07	0.46
14,776.00	91.26	181.91	9,870.20	-5,034.39	-718.96	5,079.45	1.97	0.23	1.96
14,870.00	90.78	181.03	9,868.53	-5,128.34	-721.38	5,173.22	1.07	-0.51	-0.94
14,963.00	90.39	180.04	9,867.58	-5,221.33	-722.24	5,265.88	1.14	-0.42	-1.06
15,056.00	90.20	181.15	9,867.10	-5,314.32	-723.21	5,358.56	1.21	-0.20	1.19
15,149.00	90.00	180.13	9,866.94	-5,407.32	-724.25	5,451.25	1.12	-0.22	-1.10
15,242.00	89.97	179.70	9,866.96	-5,500.32	-724.11	5,543.83	0.46	-0.03	-0.46

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
15,335.00	89.27	178.67	9,867.58	-5,593.30	-722.79	5,636.29	1.34	-0.75	-1.11
15,427.00	90.31	179.92	9,867.92	-5,685.29	-721.66	5,727.78	1.77	1.13	1.36
15,521.00	90.87	180.96	9,866.95	-5,779.28	-722.38	5,821.43	1.26	0.60	1.11
15,613.00	93.00	183.26	9,863.84	-5,871.16	-725.76	5,913.22	3.41	2.32	2.50
15,706.00	90.81	182.77	9,860.75	-5,963.97	-730.65	6,006.08	2.41	-2.35	-0.53
15,800.00	91.18	182.95	9,859.12	-6,057.84	-735.34	6,099.98	0.44	0.39	0.19
15,893.00	90.98	182.90	9,857.37	-6,150.70	-740.08	6,192.88	0.22	-0.22	-0.05
15,986.00	91.20	182.12	9,855.60	-6,243.59	-744.16	6,285.75	0.87	0.24	-0.84
16,079.00	90.22	181.36	9,854.45	-6,336.54	-746.98	6,378.56	1.33	-1.05	-0.82
16,172.00	88.99	180.79	9,855.09	-6,429.52	-748.72	6,471.30	1.46	-1.32	-0.61
16,266.00	91.23	180.98	9,854.91	-6,523.50	-750.18	6,565.01	2.39	2.38	0.20
16,359.00	90.53	181.02	9,853.48	-6,616.48	-751.80	6,657.73	0.75	-0.75	0.04
16,452.00	90.17	181.62	9,852.91	-6,709.45	-753.94	6,750.50	0.75	-0.39	0.65
16,545.00	88.91	182.08	9,853.66	-6,802.40	-756.94	6,843.32	1.44	-1.35	0.49
16,638.00	89.78	178.74	9,854.72	-6,895.38	-757.61	6,935.96	3.71	0.94	-3.59
16,731.00	90.67	179.96	9,854.35	-6,988.37	-756.55	7,028.44	1.62	0.96	1.31
16,825.00	88.88	177.77	9,854.72	-7,082.34	-754.69	7,121.83	3.01	-1.90	-2.33
16,920.00	89.47	177.42	9,856.09	-7,177.24	-750.71	7,215.96	0.72	0.62	-0.37
17,015.00	89.24	177.69	9,857.16	-7,272.15	-746.65	7,310.08	0.37	-0.24	0.28
17,110.00	91.43	180.78	9,856.61	-7,367.12	-745.38	7,404.52	3.99	2.31	3.25
17,205.00	90.81	181.75	9,854.75	-7,462.08	-747.48	7,499.26	1.21	-0.65	1.02
17,300.00	91.68	181.30	9,852.68	-7,557.02	-750.01	7,594.02	1.03	0.92	-0.47
17,395.00	90.48	181.52	9,850.89	-7,651.98	-752.35	7,688.78	1.28	-1.26	0.23
17,489.00	90.31	181.13	9,850.25	-7,745.95	-754.52	7,782.55	0.45	-0.18	-0.41
17,584.00	90.64	181.11	9,849.46	-7,840.93	-756.38	7,877.29	0.35	0.35	-0.02
17,679.00	91.76	181.43	9,847.47	-7,935.88	-758.48	7,972.03	1.23	1.18	0.34
17,774.00	89.66	180.22	9,846.29	-8,030.86	-759.85	8,066.72	2.55	-2.21	-1.27
17,800.00	90.87	179.55	9,846.17	-8,056.86	-759.80	8,092.60	5.32	4.65	-2.58
First ST01 Survey									
17,832.00	91.54	179.10	9,845.50	-8,088.85	-759.42	8,124.42	2.52	2.09	-1.41
17,863.00	91.88	178.95	9,844.57	-8,119.83	-758.89	8,155.21	1.20	1.10	-0.48
17,895.00	92.02	179.47	9,843.48	-8,151.81	-758.45	8,187.01	1.68	0.44	1.63
17,927.00	89.83	178.00	9,842.97	-8,183.79	-757.75	8,218.79	8.24	-6.84	-4.59
18,085.00	88.60	173.55	9,845.13	-8,341.30	-746.11	8,374.54	2.92	-0.78	-2.82
18,116.00	88.38	172.95	9,845.95	-8,372.08	-742.47	8,404.84	2.06	-0.71	-1.94
18,148.00	90.00	173.60	9,846.40	-8,403.85	-738.72	8,436.13	5.45	5.06	2.03
18,180.00	91.82	173.87	9,845.89	-8,435.66	-735.23	8,467.47	5.75	5.69	0.84
18,211.00	91.60	173.11	9,844.97	-8,466.44	-731.72	8,497.80	2.55	-0.71	-2.45
18,243.00	90.90	173.14	9,844.27	-8,498.21	-727.89	8,529.07	2.19	-2.19	0.09
18,275.00	91.23	174.05	9,843.68	-8,530.00	-724.32	8,560.39	3.02	1.03	2.84
18,340.00	89.41	173.32	9,843.31	-8,594.60	-717.17	8,624.05	3.02	-2.80	-1.12
18,371.00	87.79	174.33	9,844.07	-8,625.41	-713.83	8,654.41	6.16	-5.23	3.26
18,403.00	87.95	176.44	9,845.26	-8,657.28	-711.26	8,685.91	6.61	0.50	6.59

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Site:	Delaware Ranch 13-24 W1CN Fed Com	MD Reference:	RKB=28' @ 2968.00usft (Patterson 564)
Well:	2H	North Reference:	Grid
Wellbore:	ST01	Survey Calculation Method:	Minimum Curvature
Design:	ST01	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)
18,434.00	87.51	177.89	9,846.49	-8,688.22	-709.73	8,716.57	4.88	-1.42	4.68
18,466.00	88.26	179.80	9,847.67	-8,720.19	-709.09	8,748.34	6.41	2.34	5.97
18,498.00	88.60	181.33	9,848.55	-8,752.18	-709.40	8,780.21	4.90	1.06	4.78
18,530.00	89.55	183.01	9,849.06	-8,784.15	-710.61	8,812.16	6.03	2.97	5.25
18,561.00	91.35	184.42	9,848.82	-8,815.08	-712.62	8,843.14	7.38	5.81	4.55
18,592.00	92.16	184.60	9,847.87	-8,845.97	-715.06	8,874.12	2.68	2.61	0.58
18,624.00	91.29	183.63	9,846.91	-8,877.87	-717.35	8,906.10	4.07	-2.72	-3.03
18,656.00	91.29	183.73	9,846.19	-8,909.80	-719.41	8,938.08	0.31	0.00	0.31
18,719.00	91.34	183.70	9,844.74	-8,972.65	-723.49	9,001.04	0.09	0.08	-0.05
18,814.00	91.93	183.84	9,842.03	-9,067.40	-729.73	9,095.96	0.64	0.62	0.15
18,909.00	92.41	183.25	9,838.43	-9,162.15	-735.60	9,190.85	0.80	0.51	-0.62
19,004.00	90.78	183.22	9,835.79	-9,256.96	-740.96	9,285.74	1.72	-1.72	-0.03
19,099.00	90.22	182.92	9,834.96	-9,351.82	-746.05	9,380.67	0.67	-0.59	-0.32
19,194.00	89.75	183.32	9,834.98	-9,446.68	-751.22	9,475.59	0.65	-0.49	0.42
19,288.00	90.25	181.39	9,834.98	-9,540.60	-755.08	9,569.46	2.12	0.53	-2.05
19,383.00	91.04	181.26	9,833.92	-9,635.56	-757.28	9,664.22	0.84	0.83	-0.14
19,478.00	89.75	180.34	9,833.26	-9,730.55	-758.60	9,758.92	1.67	-1.36	-0.97
19,572.00	89.58	179.26	9,833.81	-9,824.54	-758.27	9,852.48	1.16	-0.18	-1.15
19,663.00	90.84	181.80	9,833.48	-9,915.53	-759.12	9,943.15	3.12	1.38	2.79
19,755.00	91.12	180.61	9,831.90	-10,007.50	-761.05	10,034.89	1.33	0.30	-1.29
19,821.00	91.71	182.09	9,830.27	-10,073.45	-762.60	10,100.71	2.41	0.89	2.24
Last ST01 Survey @ 19821'									
19,851.55	91.71	182.09	9,829.36	-10,103.97	-763.72	10,131.20	0.00	0.00	0.00
Delaware Ranch 2H PBHL									
19,860.00	91.71	182.09	9,829.11	-10,112.41	-764.03	10,139.63	0.00	0.00	0.00
PTB @ 19860'									

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
17,800.00	9,846.17	-8,056.86	-759.80	First ST01 Survey
19,821.00	9,830.27	-10,073.45	-762.60	Last ST01 Survey @ 19821'
19,860.00	9,829.11	-10,112.41	-764.03	PTB @ 19860'

Checked By: _____	Approved By: _____	Date: _____
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