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FEB 05 2020

Form C-102

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

Revised August 1, 2011
Form C-102 Apply to appropriate
District Office

☒ AMENDED REPORT
As Drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-45769		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp (Gas)	
4 Property Code 325022		5 Property Name CHICAGO 9/8 WOPM FEE			6 Well Number 2H
7 OGRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			9 Elevation 3016'

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
P	9	24S	28E		1265	SOUTH	175	EAST	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	8	24S	28E		463'	SOUTH	317'	WEST	EDDY
12 Dedicated Acres 640		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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.

16 N 00°16'04" W 5322.62' W 5322.62' N 00°16'04" W 5322.62' 317' B.H. 463' S 89°08'28" W 5289.38'		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: <i>J. Lathan</i> Date: <i>1/7/2020</i> Printed Name: <i>Jackie Lathan</i> 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. 12-22-2017 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number		17 S 89°28'59" W 5214.20' W 5264.97' N 00°23'12" W 5264.97' 175' S.L. 1265' S 89°12'04" W 5292.25'	
GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 447092.0 - E 618232.0 LAT: 32.2288875° N LONG: 104.0846577° W BOTTOM HOLE N 446121.6 - E: 608165.1 LAT: 32.2262798° N LONG: 104.1172198° W		CORNER DATA NAD 83 GRID - NM EAST A: CALCULATED CORNER N 445676.7 - E 607837.3 B: CALCULATED CORNER N 450998.1 - E 607812.4 C: FOUND YPC ILLEGABLE N 451046.4 - E 613167.1 D: FOUND 1/2" REBAR N 451093.4 - E 618379.9 E: CALCULATED CORNER N 445829.8 - E 618415.5 F: FOUND 100D NAIL N 445756.0 - E 613124.9	

Job No.: LS1712824

LP 4-21-2020

Intent ☐ As Drilled ☒

API # 30-015-45769			
Operator Name: Mewbourne Oil Company		Property Name: Chicago 9/8 W0PM Fee	Well Number #2H

Kick Off Point (KOP)

UL P	Section 9	Township 24S	Range 28E	Lot	Feet 514	From N/S S	Feet 23	From E/W E	County Edley
Latitude 32.2268202					Longitude -104.0841707				NAD 83

First Take Point (FTP)

UL P	Section 9	Township 24S	Range 28E	Lot	Feet 472	From N/S S	Feet 334	From E/W E	County Edley
Latitude 32.2267120					Longitude -104.0851907				NAD 83

Last Take Point (LTP)

UL M	Section 8	Township 24S	Range 28E	Lot	Feet 463	From N/S S	Feet 434	From E/W W	County Edley
Latitude 32.2263534					Longitude -104.1168362				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 # 30-015-45769			
Operator Name: Mewbourne Oil Co		Property Name: Chicago 9/8 W0PM Fee	Well Number 1H

KZ 06/29/2018

Plan #2



Project: Eddy Co., NM (NAD 83)
 Site: Chicago 9-B WOPM Fee
 Well: 2H
 Wellbore: OH
 Design: Plan #2
 Lat: 32.228888
 Long: -104.084658
 GL: 3016.00
 KB: RKB=28' @ 3044.00usft (Patterson 244)



Formation Tops

TVDPath	Formation
1070.00	Salt Top
2340.00	Salt Base
2530.00	Delaware (Lamar)
2570.00	Bell Canyon
3340.00	Cherry Canyon
3510.00	Manzanita Marker
6225.00	Bone Spring
7120.00	1st Bone Spring Sand
7865.00	2nd Bone Spring Sand
8120.00	3rd Bone Spring Sand
9370.00	Wolfcamp

WELL DETAILS: 2H

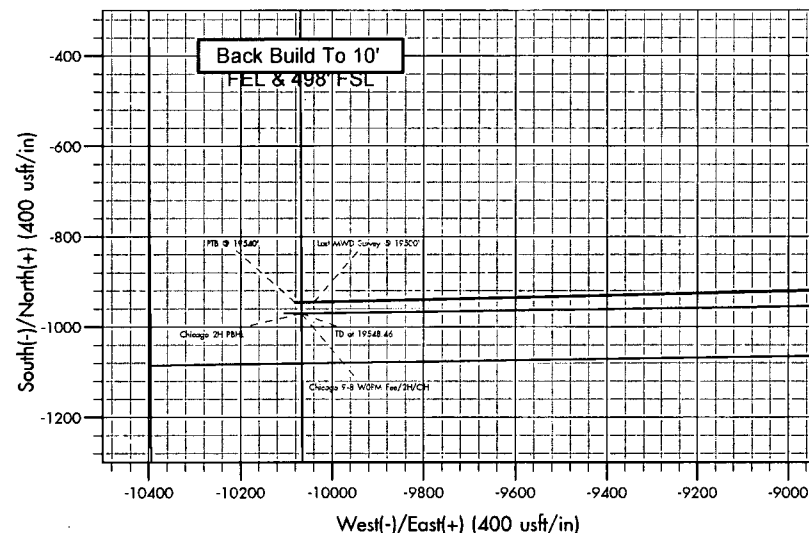
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	447092.00	618232.00	32.228888	-104.084658

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Chicago 2H PBHL	9354.00	-970.40	-10066.90	446121.60	608165.10	Point

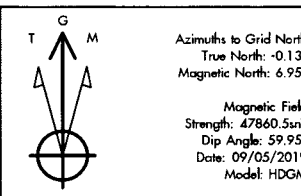
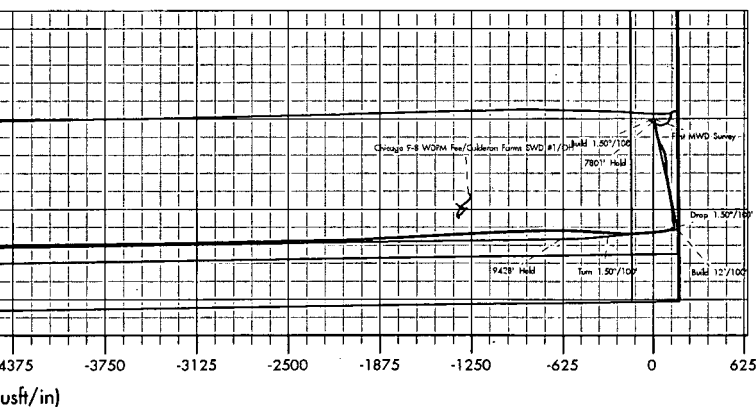
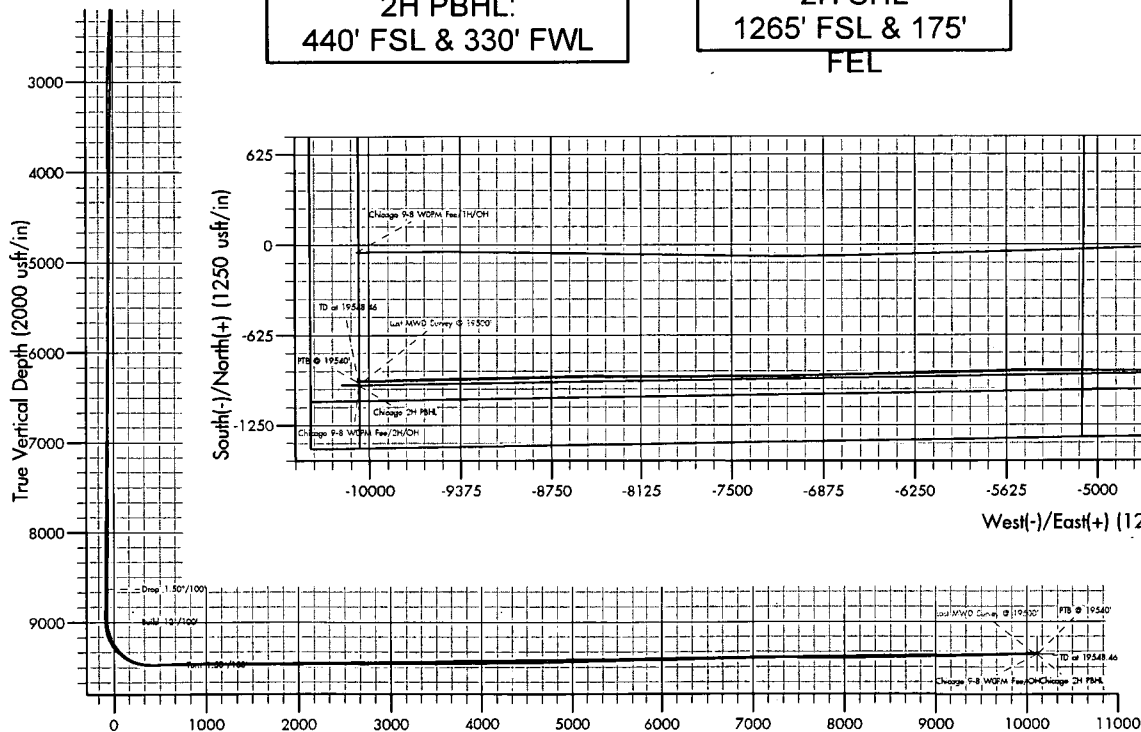
SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	Build 1.50°/100'
866.61	5.50	167.45	866.04	-17.16	3.82	1.50	167.45	-2.16	7801' Hold
8667.42	5.50	167.45	8630.96	-746.84	166.29	0.00	0.00	-93.86	Drop 1.50°/100'
9034.03	0.00	0.00	8997.00	-764.00	170.11	1.50	180.00	-96.02	Build 12°/100'
9789.94	90.71	264.20	9474.43	-812.85	-310.80	12.00	264.20	387.36	Turn 1.50°/100'
10120.50	90.71	269.16	9470.34	-831.99	-640.67	1.50	90.00	717.55	9428' Hold
19548.46	90.71	269.16	9354.00	-970.40	-10066.90	0.00	0.00	10113.56	TD at 19548.46



2H PBHL:
440' FSL & 330' FWL

2H SHL
1265' FSL & 175' FEL



Plan: Plan #2 (2H/OH)
 Created By: Marcus Spurgin Date: 9-22-November-02-2019



Mewbourne Oil Company

Patterson 244

Chicago 9-8 W0PM Fee 2H (AEP19200)

2019-09-17 to 2019-11-06

Eddy, New Mexico, US (32.23, -104.08)

Job Type
Directional



ALTITUDE ENERGY PARTNERS LLC. **SURVEY DATA CERTIFICATION**

ALTITUDE JOB NUMBER	AEP-19200	OPERATOR	Mewbourne Oil Company
WELL NAME	Chicago 9-8 W0PM Fee 2H	COUNTY & STATE	Eddy, NM
API WELL NUMBER	30-015-45769	PROPOSED DIRECTION	264.49
Latitude	32.2288 N	Longitude	104.0846 W

TIE-IN DATA						
MEASURED DEPTH	VERTICAL DEPTH	INCLIN	AZIMUTH	N-S COORD	E-W COORD	DATA SOURCE
0	0	0	0	0	0	Surface
FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH	SURVEY INSTRUMENT TYPE		
				MWD		
10/17/19	143	.13	63.45	MAGNETIC DECLINATION OR TOTAL GRID		
LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH	TOTAL CORRECTION USED		6.95
				DECLINATION OR GRID		Grid
11/1/19	19500	90.84	268.38			
PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH			
11/1/19	19540	90.94	268.38			
The data and calculations for this survey have been checked by me and conform to the calibration standards and operational procedures set forth by Altitude Energy Partners LLC. I am authorized and qualified to review the data, calculations and this report, and that the report represents a true and correct Directional Survey of this well based on the original data corrected to True North and obtained at the well site. Wellbore coordinates are calculated using Minimum curvature or other method.						

Cody Wright

PRINT MWD NAME ABOVE

Cody Wright

SIGN MWD NAME ABOVE

11/02/19

TODAY'S DATE



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)
Chicago 9-8 W0PM Fee
2H

OH

Design: OH

Standard Survey Report

04 November, 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' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 W0PM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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	Chicago 9-8 W0PM Fee		
Site Position:		Northing:	447,091.60 usft
From:	Map	Easting:	618,202.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.228887
		Longitude:	-104.084755
		Grid Convergence:	0.13 °

Well	2H		
Well Position	+N/-S	0.00 usft	Northing: 447,092.00 usft
	+E/-W	0.00 usft	Easting: 618,232.00 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32.228888
		Longitude:	-104.084658
		Ground Level:	3,016.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	HDGM	09/05/19	7.08
			Dip Angle (°)
			59.95
			Field Strength (nT)
			47,860.50000000

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)
	0.00	0.00	0.00
			Direction (°)
			264.49

Survey Program	Date 11/04/19		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
143.00	19,540.00	MWD Survey (OH)	MWD
			Description
			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
143.00	0.13	63.45	143.00	0.07	0.15	-0.15	0.09	0.09	0.00
First MWD Survey									
234.00	0.10	159.65	234.00	0.04	0.27	-0.27	0.19	-0.03	105.71
351.00	0.42	91.55	351.00	-0.06	0.73	-0.72	0.34	0.27	-58.21
471.00	0.70	93.58	470.99	-0.12	1.90	-1.88	0.23	0.23	1.69
590.00	1.88	135.55	589.96	-1.56	3.99	-3.82	1.21	0.99	35.27
678.00	2.63	158.74	677.90	-4.47	5.74	-5.28	1.33	0.85	26.35
774.00	3.30	165.58	773.77	-9.20	7.22	-6.31	0.79	0.70	7.13
868.00	4.56	171.64	867.54	-15.52	8.44	-6.91	1.41	1.34	6.45
962.00	5.15	170.50	961.21	-23.38	9.68	-7.39	0.64	0.63	-1.21

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 W0PM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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)
1,055.00	6.25	169.55	1,053.75	-32.47	11.29	-8.12	1.19	1.18	-1.02
1,149.00	6.35	169.18	1,147.18	-42.61	13.19	-9.04	0.11	0.11	-0.39
1,243.00	6.57	169.72	1,240.58	-53.01	15.13	-9.97	0.24	0.23	0.57
1,337.00	6.68	169.36	1,333.95	-63.67	17.10	-10.90	0.13	0.12	-0.38
1,429.00	6.64	169.88	1,425.33	-74.17	19.02	-11.81	0.08	-0.04	0.57
1,523.00	6.62	170.62	1,518.70	-84.86	20.86	-12.61	0.09	-0.02	0.79
1,616.00	6.75	168.31	1,611.07	-95.50	22.84	-13.56	0.32	0.14	-2.48
1,709.00	6.75	168.66	1,703.43	-106.21	25.02	-14.70	0.04	0.00	0.38
1,803.00	6.83	166.40	1,796.77	-117.06	27.42	-16.05	0.30	0.09	-2.40
1,896.00	7.11	161.15	1,889.08	-127.89	30.58	-18.16	0.75	0.30	-5.65
1,990.00	6.54	161.46	1,982.41	-138.47	34.16	-20.71	0.61	-0.61	0.33
2,084.00	5.86	163.58	2,075.86	-148.14	37.22	-22.82	0.76	-0.72	2.26
2,178.00	6.32	158.21	2,169.33	-157.55	40.50	-25.18	0.78	0.49	-5.71
2,272.00	6.94	153.95	2,262.71	-167.46	44.91	-28.62	0.84	0.66	-4.53
2,365.00	7.28	151.99	2,354.99	-177.71	50.15	-32.85	0.45	0.37	-2.11
2,407.00	7.06	150.81	2,396.66	-182.31	52.65	-34.91	0.63	-0.52	-2.81
2,566.00	6.76	150.57	2,554.51	-198.99	62.02	-42.62	0.19	-0.19	-0.15
2,659.00	6.44	149.53	2,646.89	-208.25	67.35	-47.04	0.37	-0.34	-1.12
2,753.00	6.33	159.22	2,740.31	-217.64	71.86	-50.63	1.15	-0.12	10.31
2,847.00	6.47	167.77	2,833.73	-227.66	74.82	-52.62	1.02	0.15	9.10
2,940.00	6.43	168.00	2,926.14	-237.88	77.02	-53.82	0.05	-0.04	0.25
3,035.00	6.65	168.09	3,020.52	-248.46	79.26	-55.04	0.23	0.23	0.09
3,128.00	6.40	166.06	3,112.92	-258.76	81.62	-56.40	0.37	-0.27	-2.18
3,222.00	6.68	165.67	3,206.31	-269.15	84.23	-58.00	0.30	0.30	-0.41
3,315.00	6.93	166.51	3,298.65	-279.84	86.88	-59.61	0.29	0.27	0.90
3,409.00	5.71	177.10	3,392.08	-290.03	88.44	-60.18	1.79	-1.30	11.27
3,503.00	5.47	181.24	3,485.63	-299.18	88.58	-59.44	0.50	-0.26	4.40
3,597.00	5.43	180.94	3,579.21	-308.10	88.41	-58.42	0.05	-0.04	-0.32
3,691.00	5.52	181.35	3,672.78	-317.07	88.23	-57.38	0.10	0.10	0.44
3,785.00	5.55	181.22	3,766.34	-326.13	88.03	-56.31	0.03	0.03	-0.14
3,878.00	5.57	179.06	3,858.90	-335.14	88.01	-55.42	0.23	0.02	-2.32
3,972.00	5.65	180.88	3,952.45	-344.33	88.01	-54.54	0.21	0.09	1.94
4,065.00	5.37	182.40	4,045.02	-353.26	87.76	-53.43	0.34	-0.30	1.63
4,159.00	5.21	181.78	4,138.62	-361.92	87.44	-52.29	0.18	-0.17	-0.66
4,253.00	5.34	170.25	4,232.23	-370.49	88.05	-52.07	1.13	0.14	-12.27
4,347.00	5.66	169.87	4,325.80	-379.37	89.60	-52.76	0.34	0.34	-0.40
4,440.00	5.60	167.92	4,418.35	-388.32	91.36	-53.65	0.22	-0.06	-2.10
4,534.00	5.58	167.93	4,511.90	-397.27	93.28	-54.70	0.02	-0.02	0.01
4,628.00	5.60	168.83	4,605.45	-406.24	95.12	-55.67	0.10	0.02	0.96
4,722.00	5.64	170.48	4,699.00	-415.30	96.77	-56.45	0.18	0.04	1.76
4,816.00	5.58	170.61	4,792.55	-424.36	98.28	-57.08	0.07	-0.06	0.14
4,909.00	5.14	170.63	4,885.14	-432.93	99.70	-57.67	0.47	-0.47	0.02
5,003.00	4.97	170.48	4,978.78	-441.10	101.06	-58.24	0.18	-0.18	-0.16

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 W0PM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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)
5,095.00	4.54	172.38	5,070.46	-448.64	102.20	-58.65	0.50	-0.47	2.07
5,188.00	4.42	171.30	5,163.18	-455.83	103.23	-58.98	0.16	-0.13	-1.16
5,281.00	4.36	175.48	5,255.91	-462.90	104.05	-59.12	0.35	-0.06	4.49
5,374.00	4.19	175.74	5,348.65	-469.81	104.58	-58.99	0.18	-0.18	0.28
5,468.00	4.34	174.26	5,442.39	-476.77	105.19	-58.93	0.20	0.16	-1.57
5,560.00	5.17	170.08	5,534.07	-484.32	106.25	-59.26	0.98	0.90	-4.54
5,654.00	5.57	168.32	5,627.66	-492.96	107.91	-60.08	0.46	0.43	-1.87
5,747.00	5.31	168.73	5,720.24	-501.60	109.66	-60.99	0.28	-0.28	0.44
5,840.00	5.30	170.12	5,812.84	-510.05	111.24	-61.75	0.14	-0.01	1.49
5,933.00	5.27	168.60	5,905.44	-518.47	112.82	-62.52	0.15	-0.03	-1.63
6,026.00	5.15	168.06	5,998.06	-526.74	114.53	-63.42	0.14	-0.13	-0.58
6,120.00	5.18	172.85	6,091.68	-535.08	115.93	-64.02	0.46	0.03	5.10
6,214.00	5.00	174.06	6,185.31	-543.36	116.88	-64.17	0.22	-0.19	1.29
6,308.00	4.63	172.42	6,278.98	-551.20	117.81	-64.34	0.42	-0.39	-1.74
6,401.00	5.26	168.82	6,371.63	-559.10	119.13	-64.89	0.75	0.68	-3.87
6,494.00	4.79	164.99	6,464.27	-567.04	120.96	-65.96	0.62	-0.51	-4.12
6,588.00	4.53	167.20	6,557.96	-574.45	122.80	-67.07	0.34	-0.28	2.35
6,681.00	4.13	169.30	6,650.70	-581.32	124.23	-67.84	0.46	-0.43	2.26
6,774.00	4.30	172.66	6,743.44	-588.07	125.30	-68.26	0.32	0.18	3.61
6,868.00	4.25	171.72	6,837.18	-595.01	126.25	-68.54	0.09	-0.05	-1.00
6,961.00	4.00	175.84	6,929.94	-601.65	126.99	-68.63	0.42	-0.27	4.43
7,054.00	4.03	172.29	7,022.71	-608.13	127.66	-68.68	0.27	0.03	-3.82
7,148.00	5.20	171.87	7,116.41	-615.62	128.70	-69.00	1.25	1.24	-0.45
7,242.00	5.62	169.92	7,209.99	-624.37	130.11	-69.56	0.49	0.45	-2.07
7,335.00	4.83	175.79	7,302.60	-632.75	131.20	-69.83	1.02	-0.85	6.31
7,428.00	5.55	172.35	7,395.22	-641.12	132.08	-69.91	0.84	0.77	-3.70
7,521.00	6.08	172.50	7,487.74	-650.46	133.33	-70.25	0.57	0.57	0.16
7,615.00	5.73	178.53	7,581.24	-660.08	134.10	-70.09	0.76	-0.37	6.41
7,708.00	5.75	182.05	7,673.78	-669.38	134.05	-69.15	0.38	0.02	3.78
7,802.00	6.41	173.09	7,767.25	-679.30	134.51	-68.66	1.23	0.70	-9.53
7,895.00	5.44	168.20	7,859.75	-688.76	136.04	-69.27	1.17	-1.04	-5.26
7,988.00	4.47	171.34	7,952.40	-696.66	137.48	-69.96	1.08	-1.04	3.38
8,081.00	4.93	169.27	8,045.09	-704.17	138.77	-70.52	0.53	0.49	-2.23
8,175.00	4.79	169.50	8,138.75	-712.00	140.24	-71.23	0.15	-0.15	0.24
8,268.00	3.83	171.26	8,231.49	-718.89	141.42	-71.74	1.04	-1.03	1.89
8,362.00	3.74	170.64	8,325.28	-725.02	142.40	-72.12	0.11	-0.10	-0.66
8,456.00	3.22	168.91	8,419.11	-730.63	143.40	-72.58	0.56	-0.55	-1.84
8,549.00	2.64	165.10	8,511.99	-735.26	144.46	-73.19	0.66	-0.62	-4.10
8,642.00	2.85	157.89	8,604.88	-739.48	145.88	-74.20	0.43	0.23	-7.75
8,735.00	2.59	145.79	8,697.78	-743.36	147.93	-75.87	0.68	-0.28	-13.01
8,828.00	2.09	146.56	8,790.70	-746.51	150.04	-77.67	0.54	-0.54	0.83
8,922.00	1.91	146.12	8,884.64	-749.24	151.86	-79.22	0.19	-0.19	-0.47
8,935.00	1.84	147.93	8,897.64	-749.60	152.09	-79.41	0.71	-0.54	13.92

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 WOPM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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)
9,006.00	1.98	201.27	8,968.60	-751.71	152.25	-79.37	2.42	0.20	75.13
9,051.00	5.92	240.74	9,013.49	-753.57	149.95	-76.90	10.15	8.76	87.71
9,099.00	10.55	251.93	9,060.99	-756.14	143.61	-70.34	10.16	9.65	23.31
9,193.00	20.49	252.31	9,151.45	-763.83	119.69	-45.79	10.57	10.57	0.40
9,287.00	31.06	258.29	9,235.99	-773.78	80.15	-5.48	11.57	11.24	6.36
9,380.00	40.61	265.40	9,311.33	-781.09	26.34	48.78	11.19	10.27	7.65
9,419.00	44.75	265.87	9,339.99	-783.10	-0.01	75.21	10.65	10.62	1.21
9,474.00	52.00	265.47	9,376.50	-786.21	-40.98	116.28	13.19	13.18	-0.73
9,567.00	63.71	267.43	9,425.90	-790.99	-119.43	194.83	12.72	12.59	2.11
9,660.00	76.07	270.26	9,457.82	-792.66	-205.67	281.73	13.59	13.29	3.04
9,692.00	80.65	270.91	9,464.28	-792.34	-237.90	312.88	14.45	14.31	2.03
9,774.00	88.18	274.95	9,472.26	-788.16	-319.33	393.53	10.41	9.18	4.93
9,866.00	92.50	274.21	9,471.71	-780.81	-411.01	484.08	4.76	4.70	-0.80
9,960.00	91.21	273.49	9,468.67	-774.50	-504.75	576.78	1.57	-1.37	-0.77
10,053.00	91.12	270.34	9,466.78	-771.40	-597.66	668.97	3.39	-0.10	-3.39
10,146.00	91.74	270.13	9,464.45	-771.02	-690.63	761.47	0.70	0.67	-0.23
10,240.00	89.92	268.22	9,463.09	-772.37	-784.61	855.14	2.81	-1.94	-2.03
10,333.00	89.83	268.18	9,463.30	-775.29	-877.56	947.95	0.11	-0.10	-0.04
10,426.00	89.83	268.07	9,463.57	-778.33	-970.51	1,040.76	0.12	0.00	-0.12
10,519.00	89.83	266.62	9,463.85	-782.64	-1,063.41	1,133.64	1.56	0.00	-1.56
10,613.00	89.94	266.69	9,464.04	-788.13	-1,157.25	1,227.57	0.14	0.12	0.07
10,706.00	90.06	266.91	9,464.04	-793.32	-1,250.10	1,320.50	0.27	0.13	0.24
10,799.00	89.83	266.75	9,464.13	-798.46	-1,342.96	1,413.42	0.30	-0.25	-0.17
10,892.00	89.80	266.82	9,464.43	-803.68	-1,435.81	1,506.35	0.08	-0.03	0.08
10,986.00	89.89	266.72	9,464.68	-808.97	-1,529.66	1,600.27	0.14	0.10	-0.11
11,080.00	89.72	266.67	9,465.00	-814.39	-1,623.50	1,694.20	0.19	-0.18	-0.05
11,173.00	89.86	266.88	9,465.34	-819.62	-1,716.36	1,787.13	0.27	0.15	0.23
11,267.00	90.59	266.85	9,464.97	-824.76	-1,810.21	1,881.04	0.78	0.78	-0.03
11,360.00	90.42	266.81	9,464.15	-829.91	-1,903.07	1,973.96	0.19	-0.18	-0.04
11,455.00	90.20	267.00	9,463.64	-835.04	-1,997.93	2,068.88	0.31	-0.23	0.20
11,548.00	90.31	268.92	9,463.22	-838.35	-2,090.86	2,161.70	2.07	0.12	2.06
11,642.00	90.25	268.82	9,462.76	-840.20	-2,184.85	2,255.43	0.12	-0.06	-0.11
11,736.00	90.14	268.71	9,462.44	-842.23	-2,278.82	2,349.16	0.17	-0.12	-0.12
11,830.00	90.45	268.92	9,461.96	-844.17	-2,372.80	2,442.89	0.40	0.33	0.22
11,924.00	90.39	268.83	9,461.27	-846.02	-2,466.78	2,536.62	0.12	-0.06	-0.10
12,017.00	90.28	268.72	9,460.73	-848.00	-2,559.76	2,629.36	0.17	-0.12	-0.12
12,110.00	90.28	268.98	9,460.27	-849.87	-2,652.74	2,722.08	0.28	0.00	0.28
12,204.00	90.22	268.76	9,459.86	-851.72	-2,746.72	2,815.81	0.24	-0.06	-0.23
12,298.00	89.89	269.02	9,459.77	-853.54	-2,840.70	2,909.53	0.45	-0.35	0.28
12,390.00	90.20	268.96	9,459.70	-855.17	-2,932.69	3,001.25	0.34	0.34	-0.07
12,484.00	89.80	268.73	9,459.70	-857.06	-3,026.67	3,094.98	0.49	-0.43	-0.24
12,577.00	90.34	268.98	9,459.59	-858.92	-3,119.65	3,187.71	0.64	0.58	0.27
12,670.00	90.34	269.09	9,459.04	-860.49	-3,212.63	3,280.41	0.12	0.00	0.12
12,764.00	90.22	268.51	9,458.58	-862.45	-3,306.61	3,374.15	0.63	-0.13	-0.62

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 W0PM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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)
12,858.00	90.28	269.34	9,458.17	-864.22	-3,400.59	3,467.86	0.89	0.06	0.88
12,950.00	89.66	269.21	9,458.21	-865.38	-3,492.58	3,559.54	0.69	-0.67	-0.14
13,044.00	90.53	269.25	9,458.06	-866.64	-3,586.58	3,653.22	0.93	0.93	0.04
13,138.00	90.34	269.06	9,457.34	-868.03	-3,680.56	3,746.90	0.29	-0.20	-0.20
13,232.00	90.64	269.39	9,456.54	-869.30	-3,774.55	3,840.58	0.47	0.32	0.35
13,326.00	91.46	269.48	9,454.82	-870.23	-3,868.53	3,934.21	0.88	0.87	0.10
13,419.00	91.04	269.46	9,452.79	-871.09	-3,961.50	4,026.84	0.45	-0.45	-0.02
13,513.00	90.62	269.58	9,451.43	-871.88	-4,055.49	4,120.47	0.46	-0.45	0.13
13,607.00	90.70	269.48	9,450.34	-872.65	-4,149.48	4,214.10	0.14	0.09	-0.11
13,700.00	89.80	269.34	9,449.94	-873.61	-4,242.47	4,306.75	0.98	-0.97	-0.15
13,795.00	90.98	269.49	9,449.29	-874.58	-4,337.46	4,401.40	1.25	1.24	0.16
13,888.00	91.18	269.94	9,447.54	-875.04	-4,430.45	4,494.00	0.53	0.22	0.48
13,982.00	90.78	269.64	9,445.93	-875.38	-4,524.43	4,587.58	0.53	-0.43	-0.32
14,076.00	91.34	269.93	9,444.19	-875.74	-4,618.41	4,681.16	0.67	0.60	0.31
14,169.00	91.32	270.08	9,442.03	-875.73	-4,711.39	4,773.71	0.16	-0.02	0.16
14,263.00	90.36	269.96	9,440.66	-875.69	-4,805.38	4,867.26	1.03	-1.02	-0.13
14,356.00	91.26	269.95	9,439.34	-875.77	-4,898.37	4,959.83	0.97	0.97	-0.01
14,449.00	91.62	270.34	9,437.00	-875.53	-4,991.34	5,052.34	0.57	0.39	0.42
14,542.00	90.11	269.87	9,435.60	-875.36	-5,084.32	5,144.88	1.70	-1.62	-0.51
14,634.00	91.85	270.74	9,434.03	-874.87	-5,176.30	5,236.39	2.11	1.89	0.95
14,727.00	92.94	270.87	9,430.14	-873.57	-5,269.21	5,328.75	1.18	1.17	0.14
14,820.00	90.84	270.19	9,427.07	-872.71	-5,362.15	5,421.17	2.37	-2.26	-0.73
14,914.00	91.29	270.15	9,425.33	-872.43	-5,456.14	5,514.70	0.48	0.48	-0.04
15,008.00	90.42	269.20	9,423.92	-872.96	-5,550.12	5,608.30	1.37	-0.93	-1.01
15,101.00	92.07	268.49	9,421.90	-874.84	-5,643.08	5,701.00	1.93	1.77	-0.76
15,195.00	89.41	267.89	9,420.69	-877.80	-5,737.01	5,794.79	2.90	-2.83	-0.64
15,287.00	90.17	268.41	9,421.03	-880.77	-5,828.96	5,886.60	1.00	0.83	0.57
15,382.00	90.90	268.58	9,420.14	-883.27	-5,923.93	5,981.37	0.79	0.77	0.18
15,475.00	91.29	269.07	9,418.36	-885.18	-6,016.89	6,074.08	0.67	0.42	0.53
15,570.00	91.29	268.85	9,416.22	-886.90	-6,111.85	6,168.77	0.23	0.00	-0.23
15,663.00	91.15	268.81	9,414.24	-888.80	-6,204.81	6,261.48	0.16	-0.15	-0.04
15,758.00	91.71	268.70	9,411.87	-890.86	-6,299.76	6,356.19	0.60	0.59	-0.12
15,852.00	90.67	268.30	9,409.92	-893.32	-6,393.70	6,449.94	1.19	-1.11	-0.43
15,945.00	91.46	268.63	9,408.19	-895.81	-6,486.65	6,542.70	0.92	0.85	0.35
16,039.00	89.89	268.49	9,407.08	-898.17	-6,580.61	6,636.45	1.68	-1.67	-0.15
16,132.00	89.47	268.34	9,407.60	-900.75	-6,673.58	6,729.23	0.48	-0.45	-0.16
16,226.00	92.55	269.14	9,405.95	-902.81	-6,767.53	6,822.94	3.39	3.28	0.85
16,320.00	91.09	268.60	9,402.96	-904.67	-6,861.46	6,916.62	1.66	-1.55	-0.57
16,414.00	91.96	268.93	9,400.46	-906.69	-6,955.40	7,010.32	0.99	0.93	0.35
16,508.00	91.71	268.71	9,397.45	-908.63	-7,049.33	7,104.01	0.35	-0.27	-0.23
16,596.00	91.88	269.26	9,394.69	-910.19	-7,137.28	7,191.69	0.65	0.19	0.63
16,695.00	89.30	268.54	9,393.67	-912.09	-7,236.24	7,290.39	2.71	-2.61	-0.73
16,791.00	89.49	269.71	9,394.69	-913.55	-7,332.23	7,386.07	1.23	0.20	1.22

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 WOPM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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)	
16,883.00	89.61	269.79	9,395.41	-913.95	-7,424.22	7,477.68	0.16	0.13	0.09	
16,976.00	89.55	269.92	9,396.09	-914.19	-7,517.22	7,570.27	0.15	-0.06	0.14	
17,068.00	89.58	270.00	9,396.79	-914.25	-7,609.22	7,661.84	0.09	0.03	0.09	
17,160.00	89.97	269.74	9,397.15	-914.46	-7,701.22	7,753.44	0.51	0.42	-0.28	
17,252.00	90.48	270.38	9,396.79	-914.36	-7,793.21	7,845.00	0.89	0.55	0.70	
17,344.00	90.31	270.51	9,396.16	-913.65	-7,885.21	7,936.50	0.23	-0.18	0.14	
17,437.00	89.97	269.86	9,395.93	-913.35	-7,978.21	8,029.04	0.79	-0.37	-0.70	
17,529.00	89.58	270.15	9,396.29	-913.34	-8,070.21	8,120.62	0.53	-0.42	0.32	
17,621.00	90.25	269.74	9,396.43	-913.43	-8,162.21	8,212.20	0.85	0.73	-0.45	
17,713.00	91.09	270.56	9,395.35	-913.19	-8,254.20	8,303.74	1.28	0.91	0.89	
17,805.00	91.12	270.83	9,393.58	-912.07	-8,346.17	8,395.19	0.30	0.03	0.29	
17,898.00	91.09	270.17	9,391.78	-911.26	-8,439.15	8,487.66	0.71	-0.03	-0.71	
17,990.00	91.60	268.88	9,389.62	-912.02	-8,531.12	8,579.27	1.51	0.55	-1.40	
18,082.00	92.10	269.27	9,386.65	-913.51	-8,623.06	8,670.93	0.69	0.54	0.42	
18,175.00	91.01	268.79	9,384.13	-915.08	-8,716.01	8,763.60	1.28	-1.17	-0.52	
18,267.00	91.46	268.81	9,382.15	-917.01	-8,807.97	8,855.32	0.49	0.49	0.02	
18,359.00	91.46	268.92	9,379.80	-918.83	-8,899.92	8,947.02	0.12	0.00	0.12	
18,451.00	91.91	269.08	9,377.10	-920.44	-8,991.87	9,038.70	0.52	0.49	0.17	
18,544.00	91.09	268.26	9,374.66	-922.59	-9,084.81	9,131.42	1.25	-0.88	-0.88	
18,636.00	91.48	268.85	9,372.60	-924.91	-9,176.76	9,223.16	0.77	0.42	0.64	
18,728.00	90.87	268.61	9,370.71	-926.95	-9,268.71	9,314.89	0.71	-0.66	-0.26	
18,820.00	90.59	268.21	9,369.54	-929.50	-9,360.67	9,406.67	0.53	-0.30	-0.43	
18,913.00	91.49	268.68	9,367.85	-932.03	-9,453.62	9,499.43	1.09	0.97	0.51	
19,005.00	91.62	268.40	9,365.36	-934.37	-9,545.56	9,591.17	0.34	0.14	-0.30	
19,097.00	91.46	268.52	9,362.88	-936.84	-9,637.49	9,682.91	0.22	-0.17	0.13	
19,189.00	91.48	268.83	9,360.52	-938.97	-9,729.43	9,774.64	0.34	0.02	0.34	
19,281.00	91.85	269.09	9,357.85	-940.64	-9,821.38	9,866.32	0.49	0.40	0.28	
19,374.00	91.34	268.46	9,355.26	-942.63	-9,914.32	9,959.02	0.87	-0.55	-0.68	
19,466.00	91.63	268.92	9,352.88	-944.73	-10,006.27	10,050.74	0.59	0.32	0.50	
19,500.00	90.84	268.38	9,352.15	-945.53	-10,040.25	10,084.65	2.81	-2.32	-1.59	
Last MWD Survey @ 19500'										
19,527.31	90.84	268.38	9,351.75	-946.30	-10,067.55	10,111.89	0.00	0.00	0.00	
Chicago 2H PBHL										
19,540.00	90.84	268.38	9,351.56	-946.66	-10,080.23	10,124.55	0.00	0.00	0.00	
PTB @ 19540'										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
143.00	143.00	0.07	0.15	First MWD Survey	
19,500.00	9,352.15	-945.53	-10,040.25	Last MWD Survey @ 19500'	
19,540.00	9,351.56	-946.66	-10,080.23	PTB @ 19540'	



MEWBOURNE
OIL COMPANY

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well 2H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
Site:	Chicago 9-8 W0PM Fee	MD Reference:	RKB=28' @ 3044.00usft (Patterson 244)
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: _____