

AA District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241		² OGRID Number 14744	
		³ Reason for Filing Code/ Effective Date NW / 11/04/21	
⁴ API Number 30 - 025 - 47530	⁵ Pool Name Sanders Tank; Upper Wolfcamp		⁶ Pool Code 98097
⁷ Property Code 328915	⁸ Property Name Zach 17/8 W0MD Fed Com		⁹ Well Number 2H

II. ¹⁰ Surface Location

UL or lot no. M	Section 17	Township 26S	Range 33E	Lot Idn	Feet from the 270	North/South Line South	Feet from the 1300	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. D	Section 8	Township 26S	Range 33E	Lot Idn	Feet from the 90	North/South line North	Feet from the 995	East/West line West	County Eddy
¹² Lse Code F	¹³ Producing Method Code Gas Lift		¹⁴ Gas Connection Date 11/04/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

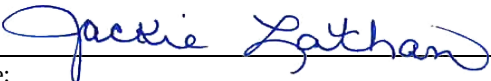
III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
34053	Plains Marketing 3514 Lovington Hwy Hobbs, NM 88240	O
314437	Delaware Basin Midstream LLC PO Box 1330 Houston, TX 77251-1331	G

IV. Well Completion Data

²¹ Spud Date 03/11/21	²² Ready Date 11/04/21	²³ TD 22626' MD	²⁴ PBTD 22618'	²⁵ Perforations 12284' - 22606'	²⁶ DHC, MC NA
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
17 ½"		13 ¾"		884'	
12 ¼"		9 ⅝"		4783'	
8 ¾"		7"		11655'	
6 ⅞"		4 ½" 3 ½"		11457' – 22624' 11420'	

V. Well Test Data

³¹ Date New Oil 11/05/21	³² Gas Delivery Date 11/04/21	³³ Test Date 11/06/21	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 3100	³⁶ Csg. Pressure 0
³⁷ Choke Size 28/64"	³⁸ Oil 864	³⁹ Water 3226	⁴⁰ Gas 1152		⁴¹ Test Method F
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Jackie Lathan			Approved by: <i>PATRICIA MARTINEZ</i>		
Title: Regulatory			Title: <i>PETROLEUM SPECIALIST</i>		
E-mail Address: jlathan@mewbourne.com			Approval Date: <i>3/7/2024</i>		
Date: 02/1/2022		Phone: 575-393-5905			

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

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 30-025-47530	² Pool Code 98097	³ Pool Name SANDERS TANK; UPPER WOLFCAMP
⁴ Property Code 328915	⁵ Property Name ZACH 17/8 WOND FED COM	⁶ Well Number 2H
⁷ GRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 3267'

¹⁰ Surface Location

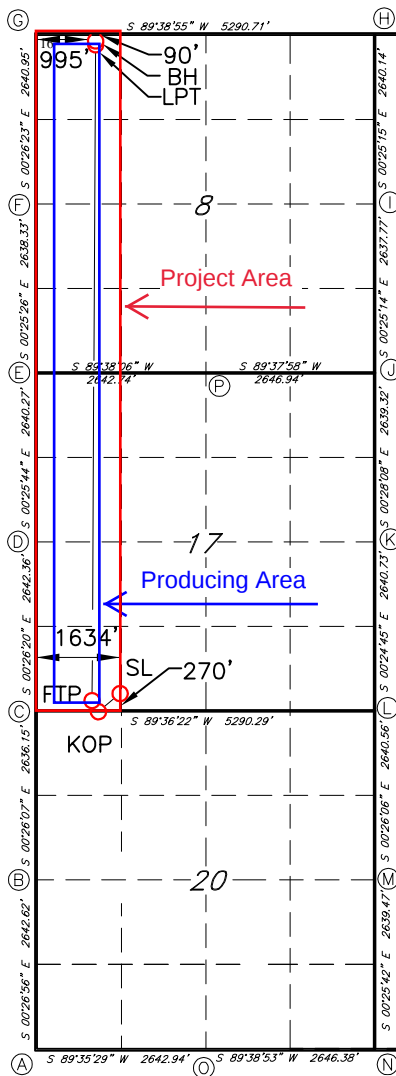
UL or lot no. M	Section 17	Township 26S	Range 33E	Lot Idn	Feet from the 270	North/South line NORTH	Feet From the 1300	East/West line WEST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. D	Section 8	Township 26S	Range 33E	Lot Idn	Feet from the 90	North/South line NORTH	Feet from the 995	East/West line WEST	County LEA
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¹² Dedicated Acres 320	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.



GEODETIC DATA
NAD 83 GRID - NM EAST
SURFACE LOCATION (SL)
(SEC. 17)
N: 377978.2 - E: 768998.0
LAT: 32.0370135° N
LONG: 103.5986299° W
KICK OFF POINT (KOP)
12' FNL - 959' FWL (SEC. 12)
N: 377693.8 - E: 768660.2
LAT: 32.0362379° N
LONG: 103.5997263° W
FIRST TAKE POINT (FTP)
162' FSL - 861' FWL (SEC. 17)
N: 377868.1 - E: 768561.1
LAT: 32.0367191° N
LONG: 103.6000422° W

LAST TAKE POINT (LTP)
110' FNL - 994' FWL (SEC. 8)
N: 388154.9 - E: 768616.0
LAT: 32.0649938° N
LONG: 103.5996394° W
BOTTOM HOLE (BH)
90' FNL - 995' FWL (SEC. 8)
N: 388175.1 - E: 768616.3
LAT: 32.0650495° N
LONG: 103.5996382° W

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1913" N: 372421.7 - E: 767741.1
B: FOUND BRASS CAP "1913" N: 375063.7 - E: 767720.4
C: FOUND BRASS CAP "1913" N: 377699.3 - E: 767700.4
D: FOUND BRASS CAP "1913" N: 380341.1 - E: 767680.1
E: FOUND BRASS CAP "1939" N: 382980.9 - E: 767660.4
F: FOUND BRASS CAP "1913" N: 385618.6 - E: 767640.9
G: FOUND BRASS CAP "1913" N: 388259.0 - E: 767620.6
H: FOUND BRASS CAP "1913" N: 388291.5 - E: 772910.2
I: FOUND BRASS CAP "1913" N: 385651.9 - E: 772929.6
J: FOUND BRASS CAP "1913" N: 383014.7 - E: 772949.0
K: FOUND BRASS CAP "1913" N: 380375.9 - E: 772970.6
L: CALCULATED CORNER N: 377735.7 - E: 772989.6
M: FOUND BRASS CAP "1913" N: 375095.7 - E: 773009.6
N: FOUND BRASS CAP "1913" N: 372456.8 - E: 773029.3
O: FOUND BRASS CAP "1913" N: 372440.5 - E: 770383.5
P: FOUND BRASS CAP "1913" N: 382997.7 - E: 770302.6

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.

Rhet Maxey 2/21/2022
Signature Date

Rhet Maxey
Printed Name

rmaxey@mewbourne.com
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.

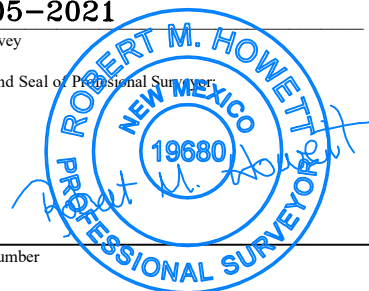
04-05-2021

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number





Project: Lea Co., NM (NAD 83)
 Site: Zach Pad
 Well: Zach 17-8 W0MD Fed Com 2H
 Wellbore: OH
 Design: Plan #2
 Lat: 32.037013
 Long: -103.598630
 GL: 3267.00
 KB: KB=28' @ 3295.00usft (Patterson 558)



WELL DETAILS: Zach 17-8 W0MD Fed Com 2H

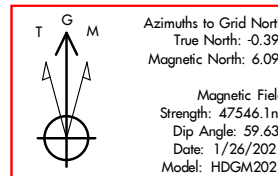
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	377978.20	768998.00	32.037013	-103.598630

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Zach 17-8 W0MD Fed Com 2H BB P2	11737.12	-262.09	-307.70	377716.11	768690.30	Point
Zach 17-8 W0MD Fed Com 2H PBHL	12145.00	10186.90	-386.80	388165.10	768611.20	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	
4850.00	0.00	0.00	4850.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
5081.69	3.48	229.58	5081.55	-4.56	-5.35	1.50	229.58	-4.35	6435' Hold
11517.55	3.48	229.58	11505.57	-257.53	-302.35	0.00	0.00	-245.88	Drop 1.5°/100'
11749.24	0.00	0.00	11737.12	-262.09	-307.70	1.50	180.00	-250.23	Build 10°/100'
12658.82	90.96	359.57	12310.00	320.43	-312.11	10.00	359.57	332.04	9868' Hold
22526.95	90.96	359.57	12145.00	10186.90	-386.80	0.00	0.00	10194.24	TD at 22526.95



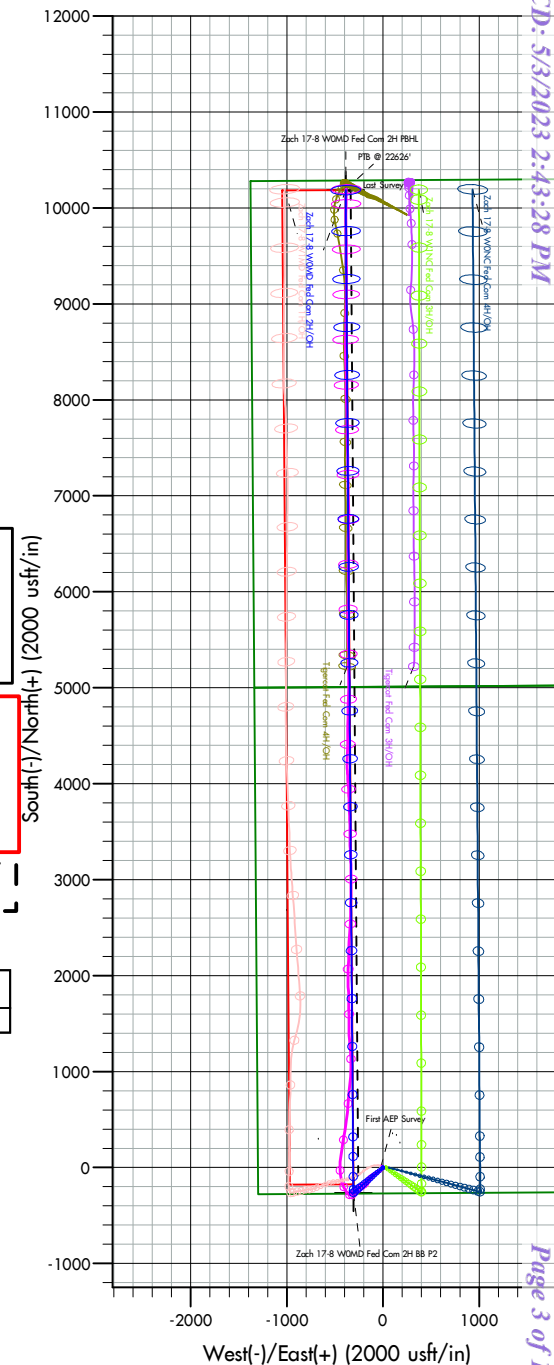
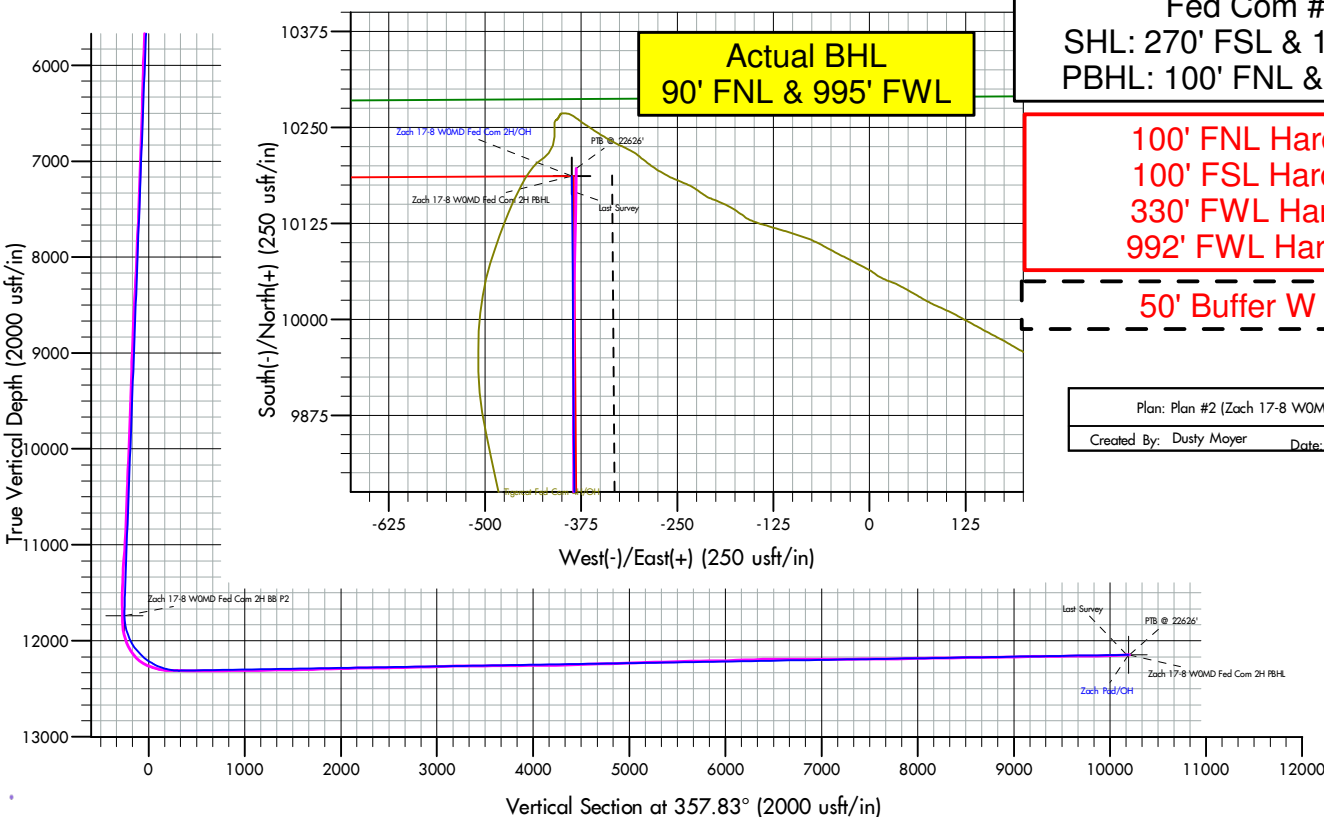
Zach 17-8 W0MD
 Fed Com #2H
 SHL: 270' FSL & 1300' FWL
 PBHL: 100' FNL & 990' FWL

100' FNL Hard Line
 100' FSL Hard Line
 330' FWL Hard Line
 992' FWL Hard Line

50' Buffer W of HL

Plan: Plan #2 (Zach 17-8 W0MD Fed Com 2H/OH)

Created By: Dusty Moyer Date: 13:16, April 02 2021





Mewbourne Oil Company

Lea Co., NM (NAD 83)

Zach Pad

Zach 17-8 W0MD Fed Com 2H

OH

Design: OH

Standard Survey Report

02 April, 2021





Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Project	Lea 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		Zach Pad			
Site Position:		Northing:	377,978.00 usft	Latitude:	32.037014
From:	Map	Easting:	768,968.10 usft	Longitude:	-103.598727
Position Uncertainty:		0.00 usft	Slot Radius:	13-3/16 "	

Well	Zach 17-8 W0MD Fed Com 2H					
Well Position	+N/-S	0.00 usft	Northing:	377,978.20 usft	Latitude:	32.037014
	+E/-W	0.00 usft	Easting:	768,998.00 usft	Longitude:	-103.598630
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	3,267.00 usft
Grid Convergence:		0.39 °				

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2021	1/26/2021	6.48	59.63	47,546.10000000

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	357.83	

Survey Program	Date	4/2/2021			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
75.00	849.00	Surface (OH)	MWD	OWSG MWD - Standard	
976.00	22,626.00	MWD Survey (OH)	MWD + HDGM	MWD + HDGM - 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	
75.00	0.50	170.20	75.00	-0.32	0.06	-0.32	0.67	0.67	0.00	
260.00	0.60	0.20	260.00	-0.15	0.20	-0.16	0.59	0.05	-91.89	
446.00	1.00	345.20	445.98	2.39	-0.21	2.40	0.24	0.22	-8.06	
630.00	1.20	332.20	629.94	5.65	-1.52	5.70	0.17	0.11	-7.07	
725.00	2.70	294.20	724.89	7.45	-4.03	7.60	2.00	1.58	-40.00	
822.00	3.70	297.20	821.74	9.82	-8.90	10.15	1.04	1.03	3.09	
849.00	3.50	301.20	848.68	10.64	-10.38	11.03	1.19	-0.74	14.81	
976.00	4.22	283.37	975.40	13.73	-18.24	14.41	1.10	0.57	-14.04	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)	
First AEP Survey										
1,070.00	2.07	286.54	1,069.25	15.01	-23.23	15.88	2.29	-2.29	3.37	
1,165.00	1.14	232.84	1,164.22	14.93	-25.63	15.89	1.76	-0.98	-56.53	
1,260.00	1.63	130.27	1,259.20	13.49	-25.35	14.44	2.30	0.52	-107.97	
1,354.00	2.15	119.46	1,353.15	11.75	-22.80	12.61	0.67	0.55	-11.50	
1,448.00	1.93	127.37	1,447.09	9.93	-20.00	10.68	0.38	-0.23	8.41	
1,543.00	1.71	115.86	1,542.04	8.34	-17.46	8.99	0.45	-0.23	-12.12	
1,637.00	1.41	117.88	1,636.01	7.18	-15.17	7.75	0.32	-0.32	2.15	
1,731.00	1.10	115.15	1,729.99	6.26	-13.33	6.76	0.34	-0.33	-2.90	
1,825.00	0.62	101.62	1,823.98	5.77	-12.02	6.23	0.55	-0.51	-14.39	
1,919.00	0.57	96.26	1,917.97	5.62	-11.05	6.04	0.08	-0.05	-5.70	
2,013.00	0.26	132.64	2,011.97	5.43	-10.43	5.82	0.42	-0.33	38.70	
2,109.00	0.13	51.43	2,107.97	5.35	-10.19	5.73	0.28	-0.14	-84.59	
2,203.00	0.18	162.26	2,201.97	5.27	-10.06	5.65	0.27	0.05	117.90	
2,298.00	0.22	281.88	2,296.97	5.17	-10.19	5.55	0.36	0.04	125.92	
2,392.00	0.18	299.81	2,390.97	5.28	-10.50	5.67	0.08	-0.04	19.07	
2,486.00	0.09	230.03	2,484.97	5.30	-10.68	5.71	0.18	-0.10	-74.23	
2,581.00	0.22	287.95	2,579.97	5.31	-10.91	5.72	0.20	0.14	60.97	
2,676.00	0.26	271.69	2,674.96	5.37	-11.30	5.80	0.08	0.04	-17.12	
2,769.00	0.00	252.09	2,767.96	5.38	-11.51	5.81	0.28	-0.28	0.00	
2,864.00	0.22	247.87	2,862.96	5.31	-11.68	5.75	0.23	0.23	0.00	
2,957.00	0.22	251.47	2,955.96	5.19	-12.02	5.64	0.01	0.00	3.87	
3,052.00	0.31	225.98	3,050.96	4.95	-12.37	5.42	0.15	0.09	-26.83	
3,147.00	0.13	259.82	3,145.96	4.75	-12.66	5.23	0.23	-0.19	35.62	
3,241.00	0.35	263.78	3,239.96	4.70	-13.06	5.20	0.23	0.23	4.21	
3,335.00	0.35	248.13	3,333.96	4.57	-13.61	5.08	0.10	0.00	-16.65	
3,429.00	0.13	152.42	3,427.96	4.36	-13.82	4.89	0.41	-0.23	-101.82	
3,523.00	0.66	105.84	3,521.96	4.12	-13.25	4.62	0.62	0.56	-49.55	
3,617.00	0.92	105.84	3,615.95	3.77	-12.01	4.22	0.28	0.28	0.00	
3,711.00	1.05	103.73	3,709.93	3.36	-10.44	3.75	0.14	0.14	-2.24	
3,806.00	1.10	85.97	3,804.92	3.22	-8.69	3.54	0.35	0.05	-18.69	
3,900.00	1.05	90.81	3,898.90	3.27	-6.93	3.53	0.11	-0.05	5.15	
3,995.00	0.70	78.85	3,993.89	3.37	-5.49	3.57	0.41	-0.37	-12.59	
4,089.00	0.66	97.13	4,087.88	3.41	-4.39	3.57	0.23	-0.04	19.45	
4,184.00	0.66	84.57	4,182.88	3.39	-3.30	3.52	0.15	0.00	-13.22	
4,279.00	0.70	109.53	4,277.87	3.25	-2.21	3.33	0.31	0.04	26.27	
4,372.00	0.70	121.57	4,370.86	2.76	-1.19	2.81	0.16	0.00	12.95	
4,466.00	0.62	141.08	4,464.86	2.07	-0.38	2.08	0.25	-0.09	20.76	
4,562.00	0.97	132.55	4,560.85	1.11	0.54	1.09	0.38	0.36	-8.89	
4,656.00	1.10	120.51	4,654.83	0.12	1.91	0.05	0.27	0.14	-12.81	
4,737.00	1.19	168.24	4,735.82	-1.10	2.75	-1.20	1.15	0.11	58.93	
4,847.00	2.02	204.89	4,845.78	-3.98	2.17	-4.06	1.16	0.75	33.32	
4,942.00	3.78	223.35	4,940.65	-7.77	-0.69	-7.74	2.07	1.85	19.43	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)	
5,036.00	4.26	227.74	5,034.42	-12.37	-5.40	-12.16	0.61	0.51	4.67	
5,131.00	4.44	229.15	5,129.15	-17.15	-10.79	-16.73	0.22	0.19	1.48	
5,226.00	4.48	231.61	5,223.86	-21.86	-16.48	-21.22	0.21	0.04	2.59	
5,319.00	4.66	230.82	5,316.56	-26.50	-22.26	-25.64	0.21	0.19	-0.85	
5,413.00	4.70	235.65	5,410.25	-31.09	-28.40	-29.99	0.42	0.04	5.14	
5,509.00	4.44	235.04	5,505.95	-35.44	-34.69	-34.10	0.28	-0.27	-0.64	
5,603.00	4.53	234.07	5,599.66	-39.70	-40.68	-38.13	0.13	0.10	-1.03	
5,696.00	4.48	236.27	5,692.37	-43.87	-46.67	-42.07	0.19	-0.05	2.37	
5,791.00	4.22	235.47	5,787.10	-47.91	-52.64	-45.88	0.28	-0.27	-0.84	
5,885.00	3.96	238.37	5,880.86	-51.58	-58.25	-49.33	0.35	-0.28	3.09	
5,980.00	3.82	238.64	5,975.64	-54.94	-63.74	-52.49	0.15	-0.15	0.28	
6,075.00	3.34	240.04	6,070.45	-57.97	-68.84	-55.32	0.51	-0.51	1.47	
6,170.00	3.08	238.90	6,165.30	-60.67	-73.43	-57.84	0.28	-0.27	-1.20	
6,265.00	2.95	240.04	6,260.17	-63.21	-77.73	-60.22	0.15	-0.14	1.20	
6,359.00	3.30	236.27	6,354.03	-65.92	-82.08	-62.76	0.43	0.37	-4.01	
6,453.00	3.60	233.72	6,447.86	-69.17	-86.71	-65.83	0.36	0.32	-2.71	
6,547.00	3.30	236.18	6,541.69	-72.42	-91.33	-68.91	0.36	-0.32	2.62	
6,642.00	3.30	236.71	6,636.53	-75.45	-95.89	-71.75	0.03	0.00	0.56	
6,736.00	3.03	234.77	6,730.39	-78.36	-100.18	-74.51	0.31	-0.29	-2.06	
6,831.00	2.99	229.94	6,825.26	-81.41	-104.13	-77.40	0.27	-0.04	-5.08	
6,925.00	2.90	231.70	6,919.14	-84.46	-107.87	-80.30	0.14	-0.10	1.87	
7,019.00	3.74	224.75	7,012.98	-88.11	-111.89	-83.80	0.99	0.89	-7.39	
7,113.00	4.00	229.76	7,106.76	-92.40	-116.56	-87.92	0.45	0.28	5.33	
7,208.00	3.38	229.67	7,201.57	-96.36	-121.22	-91.69	0.65	-0.65	-0.09	
7,302.00	3.30	232.75	7,295.41	-99.79	-125.49	-94.96	0.21	-0.09	3.28	
7,397.00	3.12	231.17	7,390.26	-103.06	-129.68	-98.07	0.21	-0.19	-1.66	
7,491.00	3.21	228.36	7,484.11	-106.42	-133.64	-101.27	0.19	0.10	-2.99	
7,586.00	2.59	231.70	7,578.99	-109.52	-137.31	-104.23	0.68	-0.65	3.52	
7,681.00	3.60	216.05	7,673.85	-113.26	-140.75	-107.84	1.38	1.06	-16.47	
7,775.00	3.52	217.11	7,767.67	-117.94	-144.23	-112.39	0.11	-0.09	1.13	
7,869.00	3.30	217.19	7,861.51	-122.40	-147.60	-116.71	0.23	-0.23	0.09	
7,964.00	3.25	213.41	7,956.35	-126.83	-150.74	-121.02	0.23	-0.05	-3.98	
8,059.00	3.25	210.87	8,051.20	-131.39	-153.60	-125.46	0.15	0.00	-2.67	
8,154.00	3.21	212.10	8,146.05	-135.95	-156.40	-129.92	0.08	-0.04	1.29	
8,248.00	3.08	209.55	8,239.91	-140.38	-159.04	-134.24	0.20	-0.14	-2.71	
8,343.00	3.47	212.27	8,334.75	-145.03	-161.84	-138.78	0.44	0.41	2.86	
8,438.00	3.56	211.92	8,429.57	-149.96	-164.93	-143.60	0.10	0.09	-0.37	
8,532.00	3.25	206.73	8,523.41	-154.82	-167.67	-148.35	0.46	-0.33	-5.52	
8,627.00	4.09	220.97	8,618.21	-159.78	-171.10	-153.18	1.30	0.88	14.99	
8,721.00	3.52	225.10	8,712.01	-164.35	-175.35	-157.58	0.67	-0.61	4.39	
8,815.00	3.16	219.30	8,805.85	-168.39	-179.03	-161.48	0.52	-0.38	-6.17	
8,909.00	2.95	219.13	8,899.71	-172.27	-182.20	-165.24	0.22	-0.22	-0.18	
9,004.00	3.30	222.20	8,994.57	-176.20	-185.58	-169.03	0.41	0.37	3.23	
9,099.00	2.64	236.44	9,089.44	-179.43	-189.24	-172.12	1.04	-0.69	14.99	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)
9,193.00	3.16	244.44	9,183.32	-181.75	-193.38	-174.28	0.70	0.55	8.51
9,287.00	3.82	232.22	9,277.15	-184.78	-198.19	-177.13	1.05	0.70	-13.00
9,381.00	3.56	228.18	9,370.96	-188.65	-202.84	-180.81	0.39	-0.28	-4.30
9,475.00	2.77	219.48	9,464.81	-192.35	-206.46	-184.37	0.98	-0.84	-9.26
9,570.00	4.48	242.07	9,559.62	-195.86	-211.20	-187.70	2.31	1.80	23.78
9,665.00	5.19	246.02	9,654.28	-199.34	-218.40	-190.91	0.83	0.75	4.16
9,758.00	5.67	244.88	9,746.87	-203.00	-226.41	-194.26	0.53	0.52	-1.23
9,852.00	4.88	248.31	9,840.47	-206.45	-234.33	-197.41	0.90	-0.84	3.65
9,946.00	4.44	231.87	9,934.16	-210.17	-240.90	-200.88	1.49	-0.47	-17.49
10,040.00	4.00	227.56	10,027.91	-214.63	-246.18	-205.14	0.58	-0.47	-4.59
10,134.00	3.52	219.13	10,121.70	-219.08	-250.43	-209.42	0.78	-0.51	-8.97
10,228.00	2.64	218.60	10,215.57	-223.01	-253.60	-213.23	0.94	-0.94	-0.56
10,322.00	3.34	225.28	10,309.44	-226.63	-256.89	-216.72	0.83	0.74	7.11
10,416.00	4.57	232.40	10,403.21	-230.84	-261.81	-220.74	1.41	1.31	7.57
10,511.00	3.60	235.83	10,497.97	-234.83	-267.27	-224.52	1.05	-1.02	3.61
10,605.00	3.82	236.62	10,591.78	-238.21	-272.33	-227.70	0.24	0.23	0.84
10,699.00	3.87	243.74	10,685.56	-241.34	-277.79	-230.62	0.51	0.05	7.57
10,794.00	3.82	248.83	10,780.35	-243.90	-283.61	-232.96	0.36	-0.05	5.36
10,888.00	4.75	223.96	10,874.09	-247.83	-289.24	-236.68	2.19	0.99	-26.46
10,982.00	5.36	217.46	10,967.73	-254.12	-294.61	-242.75	0.89	0.65	-6.91
11,076.00	5.54	212.54	11,061.31	-261.43	-299.72	-249.87	0.53	0.19	-5.23
11,169.00	5.14	212.71	11,153.90	-268.72	-304.39	-256.97	0.43	-0.43	0.18
11,216.00	4.41	212.30	11,200.74	-272.02	-306.49	-260.19	1.54	-1.54	-0.86
Cross section line									
11,263.00	3.69	211.74	11,247.62	-274.83	-308.25	-262.94	1.54	-1.54	-1.20
11,358.00	2.68	215.79	11,342.47	-279.23	-311.16	-267.23	1.09	-1.06	4.26
11,453.00	3.91	239.78	11,437.32	-282.67	-315.26	-270.50	1.92	1.29	25.25
11,547.00	4.26	264.92	11,531.09	-284.59	-321.51	-272.18	1.92	0.37	26.74
11,643.00	3.96	273.00	11,626.84	-284.73	-328.37	-272.07	0.68	-0.31	8.42
11,694.00	3.43	272.12	11,677.73	-284.58	-331.65	-271.79	1.05	-1.04	-1.73
11,783.00	4.53	270.81	11,766.52	-284.43	-337.83	-271.41	1.24	1.24	-1.47
11,819.00	8.66	273.88	11,802.27	-284.23	-341.95	-271.05	11.51	11.47	8.53
11,861.00	10.95	279.77	11,843.66	-283.34	-349.04	-269.89	5.95	5.45	14.02
11,908.00	15.30	304.38	11,889.45	-279.07	-358.57	-265.27	14.87	9.26	52.36
11,955.00	19.30	317.21	11,934.33	-269.87	-368.97	-255.67	11.71	8.51	27.30
12,050.00	24.40	329.61	12,022.53	-241.38	-389.59	-226.43	7.21	5.37	13.05
12,090.00	27.21	335.85	12,058.54	-225.91	-397.51	-210.66	9.76	7.03	15.60
12,144.00	33.14	338.13	12,105.20	-200.92	-408.07	-185.29	11.18	10.98	4.22
12,191.00	40.75	339.98	12,142.74	-174.54	-418.12	-158.55	16.36	16.19	3.94
12,238.00	46.55	342.96	12,176.74	-143.79	-428.38	-127.43	13.09	12.34	6.34
12,285.00	52.04	348.50	12,207.39	-109.28	-437.09	-92.62	14.70	11.68	11.79
12,332.00	58.59	352.72	12,234.13	-71.18	-443.33	-54.30	15.77	13.94	8.98
12,379.00	65.89	357.55	12,256.02	-29.78	-446.80	-12.80	17.99	15.53	10.28



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)	
12,427.00	71.52	1.33	12,273.45	14.92	-447.20	31.87	13.83	11.73	7.88	
12,474.00	74.46	5.38	12,287.20	59.77	-444.56	76.59	10.34	6.26	8.62	
12,521.00	78.86	7.49	12,298.04	105.19	-439.43	121.79	10.33	9.36	4.49	
12,614.00	88.48	9.16	12,308.29	196.54	-426.05	212.57	10.50	10.34	1.80	
12,708.00	89.80	9.95	12,309.70	289.22	-410.45	304.59	1.64	1.40	0.84	
12,800.00	89.58	8.89	12,310.20	379.98	-395.39	394.71	1.18	-0.24	-1.15	
12,848.00	90.37	8.72	12,310.22	427.41	-388.05	441.83	1.68	1.65	-0.35	
12,901.00	89.98	7.49	12,310.05	479.88	-380.57	493.98	2.43	-0.74	-2.32	
12,995.00	89.76	5.46	12,310.27	573.28	-369.97	586.90	2.17	-0.23	-2.16	
13,089.00	88.57	4.41	12,311.64	666.92	-361.89	680.17	1.69	-1.27	-1.12	
13,182.00	91.47	4.67	12,311.61	759.62	-354.53	772.52	3.13	3.12	0.28	
13,276.00	91.30	7.05	12,309.33	853.09	-344.93	865.56	2.54	-0.18	2.53	
13,369.00	89.54	3.44	12,308.65	945.68	-336.43	957.76	4.32	-1.89	-3.88	
13,462.00	89.80	1.51	12,309.19	1,038.59	-332.42	1,050.45	2.09	0.28	-2.08	
13,556.00	91.16	357.91	12,308.40	1,132.56	-332.89	1,144.38	4.09	1.45	-3.83	
13,650.00	92.26	354.04	12,305.59	1,226.27	-339.49	1,238.27	4.28	1.17	-4.12	
13,743.00	90.73	356.32	12,303.17	1,318.90	-347.30	1,331.13	2.95	-1.65	2.45	
13,837.00	90.33	358.79	12,302.30	1,412.81	-351.31	1,425.12	2.66	-0.43	2.63	
13,930.00	91.16	0.45	12,301.09	1,505.79	-351.92	1,518.06	2.00	0.89	1.78	
14,025.00	91.25	358.35	12,299.09	1,600.76	-352.92	1,613.00	2.21	0.09	-2.21	
14,119.00	92.35	359.66	12,296.14	1,694.70	-354.55	1,706.93	1.82	1.17	1.39	
14,214.00	91.65	358.52	12,292.82	1,789.62	-356.06	1,801.85	1.41	-0.74	-1.20	
14,308.00	90.64	356.41	12,290.94	1,883.51	-360.22	1,895.82	2.49	-1.07	-2.24	
14,401.00	91.69	0.98	12,289.05	1,976.44	-362.33	1,988.76	5.04	1.13	4.91	
14,495.00	91.34	1.25	12,286.57	2,070.39	-360.50	2,082.57	0.47	-0.37	0.29	
14,590.00	92.57	2.12	12,283.32	2,165.29	-357.71	2,177.30	1.59	1.29	0.92	
14,684.00	90.37	1.33	12,280.91	2,259.21	-354.88	2,271.05	2.49	-2.34	-0.84	
14,778.00	88.97	2.65	12,281.45	2,353.14	-351.62	2,364.79	2.05	-1.49	1.40	
14,871.00	90.64	5.11	12,281.77	2,445.92	-345.33	2,457.26	3.20	1.80	2.65	
14,964.00	92.22	2.92	12,279.45	2,538.66	-338.82	2,549.68	2.90	1.70	-2.35	
15,057.00	91.30	0.81	12,276.59	2,631.56	-335.79	2,642.40	2.47	-0.99	-2.27	
15,151.00	91.34	359.66	12,274.43	2,725.53	-335.41	2,736.29	1.22	0.04	-1.22	
15,245.00	90.90	2.12	12,272.59	2,819.49	-333.95	2,830.13	2.66	-0.47	2.62	
15,339.00	91.12	0.45	12,270.93	2,913.45	-331.84	2,923.94	1.79	0.23	-1.78	
15,433.00	91.30	1.69	12,268.95	3,007.41	-330.09	3,017.77	1.33	0.19	1.32	
15,527.00	92.40	358.35	12,265.91	3,101.35	-330.05	3,111.64	3.74	1.17	-3.55	
15,621.00	91.38	356.15	12,262.81	3,195.18	-334.56	3,205.57	2.58	-1.09	-2.34	
15,716.00	91.21	358.43	12,260.66	3,290.04	-339.05	3,300.54	2.41	-0.18	2.40	
15,810.00	88.62	359.49	12,260.80	3,384.02	-340.76	3,394.51	2.98	-2.76	1.13	
15,904.00	91.30	359.40	12,260.87	3,478.01	-341.67	3,488.47	2.85	2.85	-0.10	
15,997.00	91.03	358.43	12,258.98	3,570.97	-343.43	3,581.43	1.08	-0.29	-1.04	
16,090.00	90.29	356.94	12,257.91	3,663.88	-347.18	3,674.42	1.79	-0.80	-1.60	
16,184.00	89.89	357.91	12,257.76	3,757.79	-351.41	3,768.41	1.12	-0.43	1.03	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)
16,277.00	91.56	359.40	12,256.58	3,850.75	-353.59	3,861.39	2.41	1.80	1.60
16,370.00	90.64	355.71	12,254.80	3,943.63	-357.56	3,954.36	4.09	-0.99	-3.97
16,464.00	89.58	355.53	12,254.62	4,037.35	-364.74	4,048.29	1.14	-1.13	-0.19
16,558.00	89.54	358.70	12,255.34	4,131.22	-369.47	4,142.26	3.37	-0.04	3.37
16,652.00	91.12	0.37	12,254.80	4,225.21	-370.23	4,236.21	2.45	1.68	1.78
16,746.00	91.87	1.42	12,252.35	4,319.16	-368.76	4,330.04	1.37	0.80	1.12
16,839.00	92.40	1.42	12,248.88	4,412.07	-366.46	4,422.80	0.57	0.57	0.00
16,933.00	91.91	0.10	12,245.35	4,505.99	-365.21	4,516.60	1.50	-0.52	-1.40
17,027.00	91.56	0.45	12,242.50	4,599.95	-364.76	4,610.48	0.53	-0.37	0.37
17,120.00	92.13	1.95	12,239.51	4,692.88	-362.81	4,703.26	1.72	0.61	1.61
17,214.00	90.55	0.98	12,237.31	4,786.82	-360.41	4,797.04	1.97	-1.68	-1.03
17,308.00	91.60	1.42	12,235.54	4,880.78	-358.44	4,890.86	1.21	1.12	0.47
17,402.00	92.92	0.81	12,231.84	4,974.68	-356.62	4,984.63	1.55	1.40	-0.65
17,496.00	92.00	0.19	12,227.80	5,068.59	-355.80	5,078.44	1.18	-0.98	-0.66
17,590.00	92.48	358.08	12,224.13	5,162.50	-357.21	5,172.34	2.30	0.51	-2.24
17,684.00	89.58	0.28	12,222.44	5,256.46	-358.56	5,266.28	3.87	-3.09	2.34
17,778.00	92.31	0.98	12,220.89	5,350.44	-357.53	5,360.15	3.00	2.90	0.74
17,872.00	91.96	356.85	12,217.38	5,444.33	-359.30	5,454.05	4.41	-0.37	-4.39
17,965.00	91.65	358.79	12,214.45	5,537.21	-362.84	5,546.99	2.11	-0.33	2.09
18,059.00	90.99	359.84	12,212.29	5,631.18	-363.96	5,640.94	1.32	-0.70	1.12
18,153.00	90.81	0.02	12,210.81	5,725.17	-364.08	5,734.86	0.27	-0.19	0.19
18,247.00	91.03	1.07	12,209.30	5,819.15	-363.18	5,828.74	1.14	0.23	1.12
18,341.00	90.90	0.98	12,207.72	5,913.12	-361.50	5,922.58	0.17	-0.14	-0.10
18,435.00	91.08	1.07	12,206.10	6,007.09	-359.82	6,016.42	0.21	0.19	0.10
18,529.00	92.53	0.54	12,203.14	6,101.04	-358.50	6,110.24	1.64	1.54	-0.56
18,622.00	92.04	359.84	12,199.43	6,193.96	-358.19	6,203.09	0.92	-0.53	-0.75
18,716.00	92.00	358.96	12,196.11	6,287.90	-359.18	6,297.00	0.94	-0.04	-0.94
18,809.00	91.69	358.26	12,193.12	6,380.82	-361.43	6,389.94	0.82	-0.33	-0.75
18,901.00	90.37	359.84	12,191.47	6,472.79	-362.96	6,481.90	2.24	-1.43	1.72
18,995.00	90.15	1.33	12,191.04	6,566.78	-362.00	6,575.78	1.60	-0.23	1.59
19,088.00	90.02	1.51	12,190.90	6,659.75	-359.69	6,668.60	0.24	-0.14	0.19
19,183.00	89.93	1.07	12,190.94	6,754.73	-357.55	6,763.43	0.47	-0.09	-0.46
19,277.00	89.98	359.40	12,191.02	6,848.72	-357.17	6,857.34	1.78	0.05	-1.78
19,371.00	90.02	359.05	12,191.02	6,942.71	-358.44	6,951.31	0.37	0.04	-0.37
19,464.00	89.89	358.79	12,191.09	7,035.70	-360.19	7,044.30	0.31	-0.14	-0.28
19,557.00	89.89	358.70	12,191.27	7,128.67	-362.23	7,137.28	0.10	0.00	-0.10
19,651.00	90.29	358.79	12,191.12	7,222.65	-364.29	7,231.27	0.44	0.43	0.10
19,744.00	90.46	358.96	12,190.51	7,315.63	-366.11	7,324.25	0.26	0.18	0.18
19,838.00	90.68	358.87	12,189.58	7,409.61	-367.89	7,418.23	0.25	0.23	-0.10
19,932.00	90.73	358.96	12,188.42	7,503.58	-369.67	7,512.21	0.11	0.05	0.10
20,025.00	90.20	359.31	12,187.67	7,596.57	-371.08	7,605.18	0.68	-0.57	0.38
20,119.00	90.29	358.96	12,187.26	7,690.56	-372.50	7,699.15	0.38	0.10	-0.37
20,212.00	90.68	358.70	12,186.48	7,783.54	-374.40	7,792.14	0.50	0.42	-0.28
20,305.00	90.81	358.52	12,185.27	7,876.50	-376.65	7,885.12	0.24	0.14	-0.19



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Zach 17-8 W0MD Fed Com 2H
Project:	Lea Co., NM (NAD 83)	TVD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Site:	Zach Pad	MD Reference:	KB=28' @ 3295.00usft (Patterson 558)
Well:	Zach 17-8 W0MD Fed Com 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)	
20,398.00	91.03	358.70	12,183.77	7,969.46	-378.91	7,978.10	0.31	0.24	0.19	
20,492.00	91.60	359.49	12,181.62	8,063.42	-380.39	8,072.05	1.04	0.61	0.84	
20,585.00	91.25	358.96	12,179.30	8,156.39	-381.65	8,164.99	0.68	-0.38	-0.57	
20,680.00	90.86	358.43	12,177.55	8,251.34	-383.81	8,259.97	0.69	-0.41	-0.56	
20,774.00	90.95	358.43	12,176.07	8,345.30	-386.39	8,353.95	0.10	0.10	0.00	
20,869.00	90.81	359.14	12,174.61	8,440.26	-388.40	8,448.92	0.76	-0.15	0.75	
20,964.00	90.42	0.02	12,173.59	8,535.26	-389.10	8,543.87	1.01	-0.41	0.93	
21,058.00	90.55	0.63	12,172.80	8,629.25	-388.56	8,637.78	0.66	0.14	0.65	
21,152.00	90.81	0.63	12,171.68	8,723.24	-387.53	8,731.66	0.28	0.28	0.00	
21,247.00	90.81	0.45	12,170.34	8,818.22	-386.64	8,826.54	0.19	0.00	-0.19	
21,341.00	91.21	1.33	12,168.68	8,912.20	-385.18	8,920.39	1.03	0.43	0.94	
21,434.00	91.08	0.89	12,166.82	9,005.16	-383.37	9,013.22	0.49	-0.14	-0.47	
21,529.00	90.81	0.89	12,165.25	9,100.14	-381.90	9,108.07	0.28	-0.28	0.00	
21,622.00	90.99	0.81	12,163.79	9,193.11	-380.52	9,200.93	0.21	0.19	-0.09	
21,717.00	90.86	1.16	12,162.26	9,288.09	-378.89	9,295.78	0.39	-0.14	0.37	
21,811.00	89.98	358.26	12,161.57	9,382.07	-379.36	9,389.71	3.22	-0.94	-3.09	
21,904.00	91.38	0.45	12,160.47	9,475.05	-380.41	9,482.66	2.79	1.51	2.35	
21,999.00	90.73	359.31	12,158.72	9,570.03	-380.61	9,577.58	1.38	-0.68	-1.20	
22,093.00	90.02	358.43	12,158.10	9,664.01	-382.46	9,671.57	1.20	-0.76	-0.94	
22,188.00	89.58	359.31	12,158.43	9,758.99	-384.34	9,766.55	1.04	-0.46	0.93	
22,283.00	90.99	0.19	12,157.96	9,853.99	-384.75	9,861.49	1.75	1.48	0.93	
22,378.00	92.35	359.93	12,155.19	9,948.94	-384.65	9,956.37	1.46	1.43	-0.27	
22,472.00	92.66	1.16	12,151.08	10,042.85	-383.76	10,050.18	1.35	0.33	1.31	
22,566.00	92.31	0.98	12,147.01	10,136.74	-382.00	10,143.94	0.42	-0.37	-0.19	
22,595.00	92.57	0.89	12,145.77	10,165.71	-381.53	10,172.87	0.95	0.90	-0.31	
Last Survey										
22,626.00	92.57	0.89	12,144.38	10,196.68	-381.05	10,203.79	0.00	0.00	0.00	
PTB @ 22626'										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
976.00	975.40	13.73	-18.24	First AEP Survey	
11,216.00	11,200.74	-272.02	-306.49	Cross section line	
22,595.00	12,145.77	10,165.71	-381.53	Last Survey	
22,626.00	12,144.38	10,196.68	-381.05	PTB @ 22626'	

Checked By: _____	Approved By: _____	Date: _____
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Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

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

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-47530
5. Indicate Type of Lease STATE ☐ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Zach 17/8 W0MD Fed Com
8. Well Number 2H
9. OGRID Number 14744
10. Pool name or Wildcat 98097 Sanders Tank; Upper Wolfcamp

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☐ Gas Well ☒ Other	
2. Name of Operator Mewbourne Oil Company	
3. Address of Operator PO Box 5270 Hobbs, NM 88240	
4. Well Location Unit Letter M _____ : 270 _____ feet from the South _____ line and 1300 _____ feet from the West _____ line Section 17 Township 26S Range 33E NMPM Lea County	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3267' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: Completion Sundry ☒	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

10/18/2021 - Perf and Frac 1 - 82 Stages from 12284' to 22606'. Frac horizontal Bone Springs w/84927976 gals PW slickwater, carrying 8472664# local 100 mesh sand. Flowback well for cleanup.
 10/25/2021 Drill out frac plugs to PBDT @ 22618'.
 11/04/2021 PWOL.

FORMATION TOPS: Rustler 740', T/salt 1098', B/salt 4604', Delaware 4836', Bell Canyon 4870', Cherry Canyon 5880', Manzanita Marker 6120', Bone Spring 9020', 1st Bone Spring 9990', 2nd Bone Spring 10550', 3rd Bone Spring 11,694', Wolfcamp 12,114'.

REQUEST FOR OCD EXTENSION OF TIME TO FILE BLM APPROVED FORM 3160-4.

Spud Date: 03/11/2021

Rig Release Date: 04/05/2021

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE Jackie Lathan TITLE Regulatory DATE 05/03/2023

Type or print name Jackie Lathan E-mail address: jlathan@mewbourne.com PHONE: 575-393-5905

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

Submit To Appropriate District Office Two Copies <u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505			Form C-105 Revised April 3, 2017					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG								1. WELL API NO. 30-025-47530		
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)								2. Type of Lease ☐ STATE ☐ FEE ☒ FED/INDIAN		
								3. State Oil & Gas Lease No.		
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER								5. Lease Name or Unit Agreement Name Zach 17/8 W0MD Fed Com		
8. Name of Operator Mewbourne Oil Company								6. Well Number: 2H		
10. Address of Operator PO Box 5270 Hobbs, NM 88241								11. Pool name or Wildcat Sanders Tank; Upper Wolfcamp 98097		
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	M	17	26S	33E		270	North	1300	West	Lea
BH:	D	8	26S	33E		90	North	995	West	Lea
13. Date Spudded 03/11/2021	14. Date T.D. Reached 04/02/2021		15. Date Rig Released 04/05/2021		16. Date Completed (Ready to Produce) 11/04/2021			17. Elevations (DF and RKB, RT, GR, etc.) 3267 GL		
18. Total Measured Depth of Well 22626'			19. Plug Back Measured Depth 22618'		20. Was Directional Survey Made? Yes			21. Type Electric and Other Logs Run GR		
22. Producing Interval(s), of this completion - Top, Bottom, Name 12284' – 22606' Wolfcamp										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13 3/8"		54.5#		884'		17 1/2"		775		Surface
9 5/8"		40#		4783'		12 1/4"		1075		Surface
7"		29#		11655'		8 3/4"		725		Surface
24. LINER RECORD										
SIZE	TOP	BOTTOM		SACKS CEMENT	SCREEN		25. TUBING RECORD			
4 1/2"	11457 (MD)	22624' (MD)		975			SIZE	DEPTH SET	PACKER SET	
							3 1/2"	11404'		
26. Perforation record (interval, size, and number)										
12284' – 22606' (82 stages, 0.39" EHD, 2952 holes)						27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.				
						DEPTH INTERVAL		AMOUNT AND KIND MATERIAL USED		
						11284' – 22606'		8492797 gals PW slickwater, carrying 8472664# local 100 mesh sand.		
28. PRODUCTION										
Date First Production 11/04/2021		Production Method (Flowing, gas lift, pumping - Size and type pump) Gaslift				Well Status (Prod. or Shut-in) Producing				
Date of Test 11/06/2021	Hours Tested 24	Choke Size 28/64	Prod'n For Test Period	Oil - Bbl 864	Gas - MCF 1152	Water - Bbl. 3226	Gas - Oil Ratio 1333			
Flow Tubing Press. 3100	Casing Pressure 0	Calculated 24- Hour Rate	Oil - Bbl. 864	Gas - MCF 1152	Water - Bbl. 3226	Oil Gravity - API - (Corr.)				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold								30. Test Witnessed By Rhett Maxey		
31. List Attachments As drilled C-102, Directional survey, C-104, completion sundry, additional kickoff sheet & Wellbore schematic										
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.								33. Rig Release Date: 04/05/2021		
34. If an on-site burial was used at the well, report the exact location of the on-site burial: Latitude Longitude NAD83										
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Jackie Lathan Printed										
Signature			Name			Title			Regulatory	
E-mail Address			Date 05/03/2023							

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well and not later than 60 days after completion of closure. When submitted as a completion report, this shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 11, 12 and 26-31 shall be reported for each zone.

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy 740	T. Bell Canyon 4870	T. Ojo Alamo	T. Penn A"
T. Salt 1098	T. Strawn	T. Kirtland	T. Penn. "B"
B. Salt 4604	T. Atoka	T. Fruitland	T. Penn. "C"
T. Yates	T. Miss	T. Pictured Cliffs	T. Penn. "D"
T. Capitan	T. Devonian	T. Cliff House	T. Leadville
T. Queen	T. Silurian	T. Menefee	T. Madison
T. Grayburg	T. Montoya	T. Point Lookout	T. Elbert
T. San Andres	T. Simpson	T. Mancos	T. McCracken
T. Glorieta	T. McKee	T. Gallup	T. Ignacio Otzte
T. Paddock	T. Cherry Canyon 5880	Base Greenhorn	T.Granite
T. Blinebry	T. Manzanita 6120	T. Dakota	
T.Tubb	T. Delaware 4836	T. Morrison	
T. Drinkard	T. Bone Springs 9020	T.Todilto	
T. Abo	T. 1 st Bone Spring 9990	T. Entrada	
T. Wolfcamp 12114	T. 2 nd Bone Spring 10550	T. Wingate	
T. Penn	T. 3 rd Bone Spring 11694	T. Chinle	
T. Cisco (Bough C)	T.	T. Permian	

No. 1, from.....to.....

No. 2, from.....to.....

No. 3, from.....to.....

No. 4, from.....to.....

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
 No. 2, from.....to.....feet.....
 No. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

Mewbourne Oil Company

Well Name: Zach 17/8 W0MD Fed Com #2H
Updated by: Rhet Maxey

Spud Date: 03/11/21

Date Updated: 1/31/2022

Surface

17 1/2" x 13 3/8" 54.5# J55
Set @ 884'
Cmt w/ 775 sx
Circ. 342 sx to pit

Intermediate

12 1/2" x 9 3/8" 40# HCL80
Set @ 4783'
Cmt w/ 1075 sx
Circ. 228 sx to pit

Production

8 3/4" x 7" 29# HCP110
Set @ 11655'
Cmt w/ 725 sx
Circ. 0 sx to pit

Liner

6 1/8" x 4 1/2" 13.5 # HCP110
Set @ 11457' - 22624'
Cmt w/ 975 sx
TOC @ 11255'

TBG Details:		
1	2 7/8" 6.5# L80 tbg pup jt w/POP	6.00'
1	2 7/8" x 7" AS 1X Pkr w/O/O tool	9.75'
1	2 7/8" SN (Nickel Plated)	1.10'
1	2 7/8" X 3 1/2" XO (Nickel Plated)	0.60'
1	3 1/2" 9.3# L80 tbg IPC	32.55'
1	3 1/2" GLV #1	4.10'
25	3 1/2" 9.3# L-80 tbg IPC	815.15'
1	3 1/2" GLV #2	4.10'
24	3 1/2" 9.3# L80 tbg IPC	778.52'
1	3 1/2" GLV #3	4.10'
24	3 1/2" 9.3# L80 tbg IPC	781.63'
1	3 1/2" GLV #4	4.10'
24	3 1/2" 9.3# L80 tbg IPC	781.50'
1	3 1/2" GLV #5	4.10'
24	3 1/2" 9.3# L80 tbg IPC	783.15'
1	3 1/2" GLV #6	4.10'
24	3 1/2" 9.3# L80 tbg IPC	782.30'
1	3 1/2" GLV #7	4.10'
24	3 1/2" 9.3# L80 tbg IPC	778.30'
1	3 1/2" GLV #8	4.10'
26	3 1/2" 9.3# L80 tbg IPC	843.65'
1	3 1/2" GLV #9	4.10'
36	3 1/2" 9.3# L80 tbg IPC	1169.80'
1	3 1/2" GLV #10	4.10'
52	3 1/2" 9.3# L80 tbg IPC	1689.58'
1	3 1/2" GLV #11	4.10'
62	3 1/2" 9.3# L80 tbg IPC	2016.06'
1	3 1/2 9.3# Pup Jt (8')	8.00'
1	3 1/2" 9.3# L80 tbg IPC	32.55'

Total tbg	11392.00'
KB Correction	28.00'
Tbg set @	11420.00'

KOP @ 11783'
Dev @ KOP: 4.53°

TVD @ 12144'
TD 6 1/8" hole @ 22626'

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

ACKNOWLEDGMENTS

Action 213261

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 213261
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 213261

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 213261
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	None	3/7/2024