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

Form C-104
Revised August 1, 2011

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 / 01/12/2021
⁴ API Number 30 - 015 - 46771	⁵ Pool Name Purple Sage; Wolfcamp (Gas)	⁶ Pool Code 98220
⁷ Property Code 328113	⁸ Property Name Buffalo Trace 1/36 W1NC Fed Com	⁹ Well Number 3H

II. 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
O	1	26S	29E		400	South	1660	East	Eddy

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	36	25S	29E		318	North	2598	West	Eddy
¹² Lse Code F	¹³ Producing Method Code Gas Lift	¹⁴ Gas Connection Date 01/12/2021	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
195739	Plains Pipeline 5500 Ming Ave Suite 300 Bakersfield, CA 93309	O
314437	Delaware Basin Midstream PO Box 1330 Houston, TX 77251-1330	G

IV. Well Completion Data

²¹ Spud Date 03/14/2020	²² Ready Date 01/12/2021	²³ TD 20793' MD	²⁴ PBSD 20752'	²⁵ Perforations 10765' - 20737'	²⁶ DHC, MC NA
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17 ½"	13 ¾" 54.5# J55	881'	775		
12 ¼"	9 ⅝" 40# HCL80	3308'	750		
8 ¾"	7 ⅝" 39# HCP110	10525'	600		
6 ⅝"	4 ½" 13.5# HCP110 3 ½"	10097' - 20793' 9215'	950		

V. Well Test Data

³¹ Date New Oil 01/12/2021	³² Gas Delivery Date 1/12/2021	³³ Test Date 01/16/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 2650	³⁶ Csg. Pressure 2030
³⁷ Choke Size 36/64"	³⁸ Oil 863	³⁹ Water 3214	⁴⁰ Gas 2842		⁴¹ Test Method Production

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: 

Printed name:
Jackie Lathan

Title:
Regulatory

E-mail Address:
jlathan@mewbourne.com

Date: 01/26/2021
Phone: 575-393-5905

OIL CONSERVATION DIVISION	
Approved by:	KURT SIMMONS
Title:	NMOCD, SANTA FE
Approval Date:	06/17/2021

Received by OCD: 3/22/2021 1:41:36 PM

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

Corrected Acres

WELL LOCATION AND ACREAGE DEDICATION PLAT

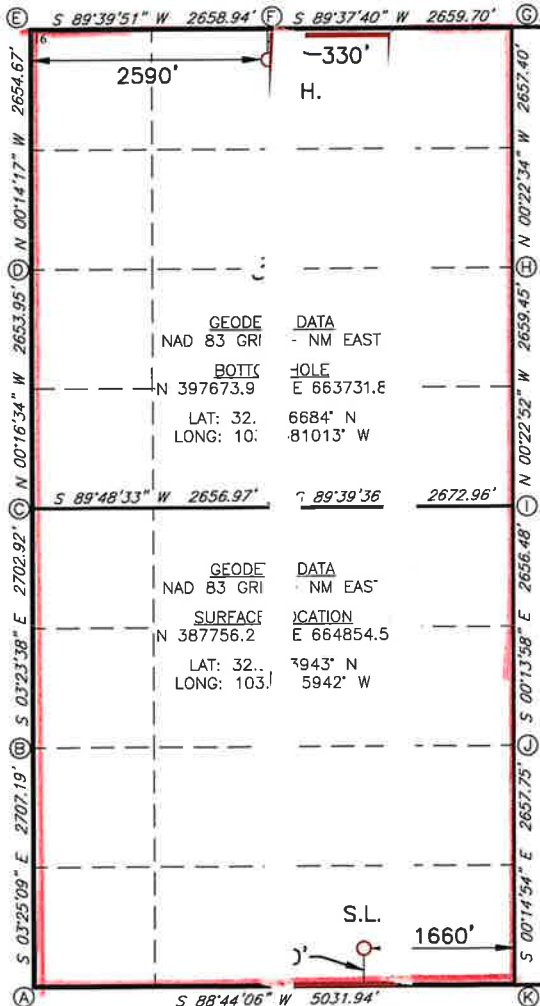
¹ API Number 30-015-46771		² Pool Code 98220		³ Pool Name Purple Sage; Wolfcamp (Gas)	
⁴ Property Code 328113		⁵ Property Name BUFFALO TRACE 1/36 W1NC FED COM			⁶ Well Number 3H
⁷ GRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3017'

¹⁰ Surface Location									
UL or lot no. 0	Section 1	Township 26S	Range 29E	Lot Idn	Feet from the 400	North/South line SOUTH	Feet From the 1660	East/West line EAST	County EDDY

¹¹ Bottom Hole Location If Different From Surface									
UL or lot no. C	Section 36	Township 25S	Range 29E	Lot Idn	Feet from the 318	North/South line NORTH	Feet from the 2598	East/West line WEST	County EDDY

¹² Dedicated Acres 1280	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.



¹⁷ OPERATOR CERTIFICATION

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

Signature: *Jackie Lathan* Date: *6/17/21*

Printed Name: **Jackie Lathan**

E-mail Address: **jlathan@mewbourne.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.

01-31-2020

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number



RRC - Job No.: **LS20010087**

Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Buffalo Trace Pad
 Well: Buffalo Trace 1-36 W1NC Fed Com #3H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.065394
 Long: -103.934594
 GL: 3018.00
 KB: RKB=28' @ 3046.00usft (Patterson 564)



WELL DETAILS: Buffalo Trace 1-36 W1NC Fed Com #3H

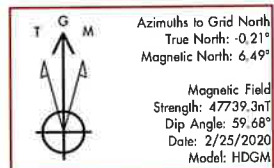
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	387756.20	664854.50	32.065394	-103.934594

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
W1NC #3H BB Point	10075.04	-409.99	-902.90	387346.21	663951.60	Point
W1NC #3H PBHL	10668.00	9917.60	-1122.06	397673.80	663732.44	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	
1050.00	0.00	0.00	1050.00	0.00	0.00	0.00	0.00	0.00	Build 1.50°/100'
1489.24	6.59	245.58	1488.27	-10.43	-22.97	1.50	245.58	-7.78	8202' Hold
9691.91	6.59	245.58	9636.77	-399.56	-879.93	0.00	0.00	-298.10	Drop 1°/100'
10131.15	0.00	0.00	10075.04	-409.99	-902.90	1.50	180.00	-305.88	Build 10°/100'
11029.95	89.88	358.00	10648.00	161.42	-922.85	10.00	358.00	264.15	4600' Hold
15629.95	89.88	358.00	10657.63	4758.61	-1083.39	0.00	0.00	4850.24	Turn 2°/100'
15709.08	89.88	359.58	10657.79	4837.72	-1085.06	2.00	89.82	4929.04	5080' Hold
20789.11	89.88	359.58	10668.00	9917.60	-1122.06	0.00	0.00	9980.87	TD at 20789.11



Formation Tops

No formation data is available

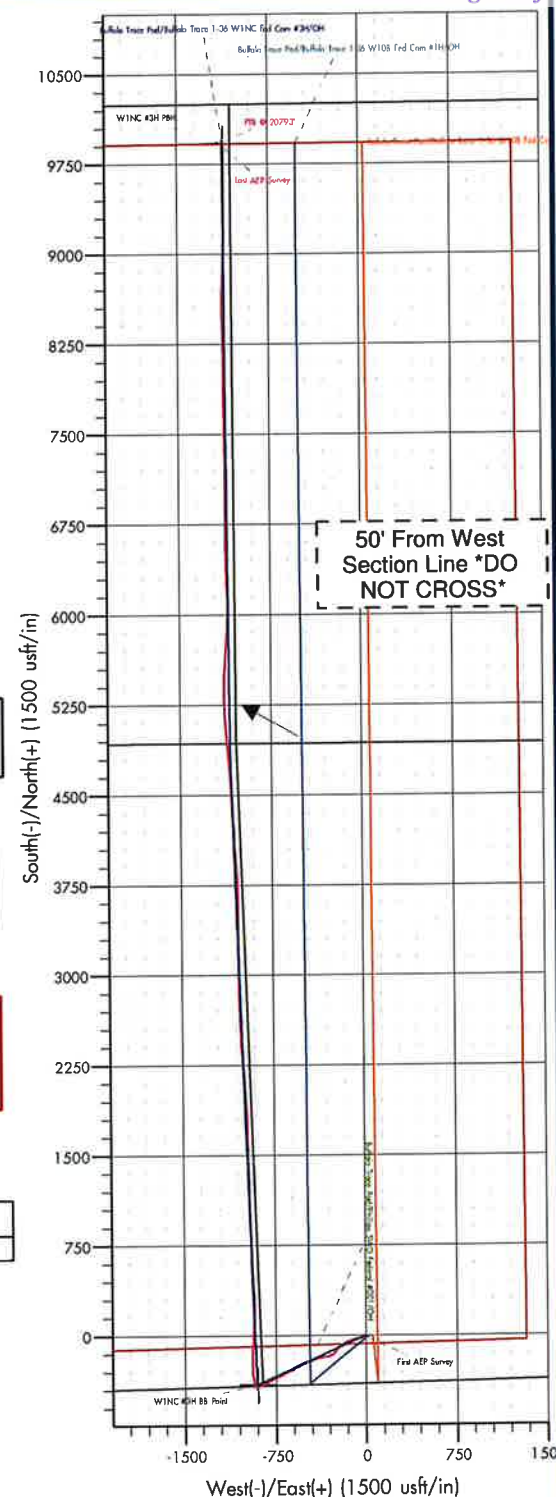
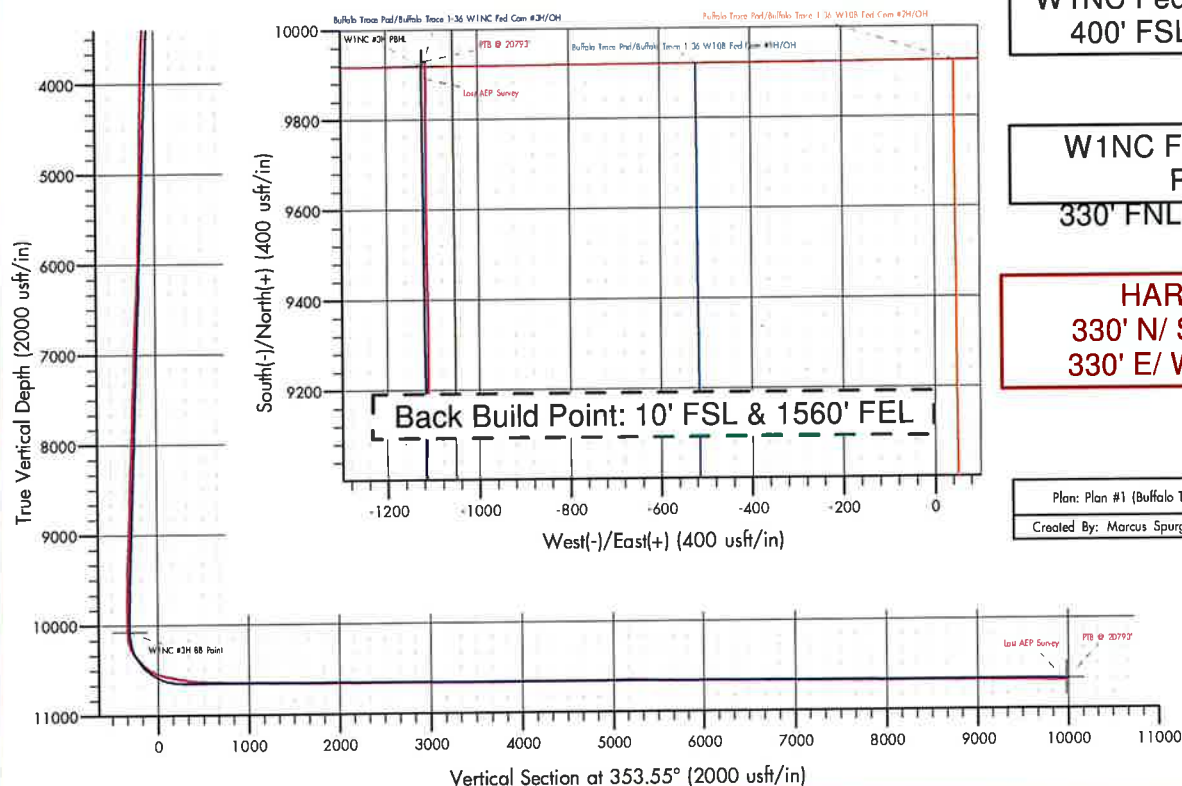
W1NC Fed Com #3H SHL:
400' FSL & 1660' FEL

W1NC Fed Com #3H
PBHL:
330' FNL & 2590' FWL

HARD LINES
330' N/ S Hard Lines
330' E/ W Hard Lines

Plan: Plan #1 (Buffalo Trace 1-36 W1NC Fed Com #3H/OH)

Created By: Marcus Spurgin Date: 12:57 May 27 2020





Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Buffalo Trace Pad

Buffalo Trace 1-36 W1NC Fed Com #3H

OH

Design: OH

Standard Survey Report

27 May, 2020





Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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	Buffalo Trace Pad			
Site Position:		Northing:	387,756.90 usft	Latitude: 32.065396
From:	Map	Easting:	664,884.50 usft	Longitude: -103.934498
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	

Well	Buffalo Trace 1-36 W1NC Fed Com #3H			
Well Position	+N/-S	0.00 usft	Northing:	387,756.20 usft
	+E/-W	0.00 usft	Easting:	664,854.50 usft
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft
Grid Convergence:		0.21 °	Ground Level:	3,018.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	2/25/2020	6.70	59.68	47,739.30000000

Design	OH			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	353.55

Survey Program	Date	5/27/2020		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	810.00	Surface (OH)	MWD	OWSG MWD - Standard
961.00	20,793.00	MWD Survey (OH)	MWD	OWSG MWD - Standard

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.08	188.22	100.00	-0.07	-0.01	-0.07	0.08	0.08	0.00	
200.00	0.36	209.60	200.00	-0.41	-0.18	-0.39	0.29	0.28	21.38	
300.00	0.58	185.74	300.00	-1.19	-0.38	-1.14	0.29	0.22	-23.86	
400.00	0.77	189.49	399.99	-2.35	-0.54	-2.28	0.19	0.19	3.75	
500.00	0.91	205.24	499.98	-3.74	-0.99	-3.60	0.27	0.14	15.75	
600.00	1.05	189.90	599.96	-5.36	-1.49	-5.16	0.30	0.14	-15.34	
700.00	1.21	195.51	699.94	-7.28	-1.93	-7.01	0.19	0.16	5.61	
800.00	1.25	184.96	799.92	-9.38	-2.30	-9.06	0.23	0.04	-10.55	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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)	
810.00	1.41	188.06	809.92	-9.61	-2.33	-9.29	1.75	1.60	31.00	
961.00	1.21	181.92	960.88	-13.04	-2.64	-12.66	0.16	-0.13	-4.07	
First AEP Survey										
1,151.00	3.14	250.82	1,150.76	-16.76	-7.63	-15.80	1.54	1.02	36.26	
1,341.00	5.61	259.83	1,340.19	-20.11	-21.69	-17.55	1.35	1.30	4.74	
1,529.00	6.43	263.43	1,527.15	-22.94	-41.19	-18.16	0.48	0.44	1.91	
1,719.00	7.71	259.83	1,715.71	-26.40	-64.30	-19.01	0.71	0.67	-1.89	
1,907.00	8.72	255.20	1,901.78	-32.27	-90.50	-21.90	0.64	0.54	-2.46	
2,094.00	9.52	246.83	2,086.42	-41.98	-118.42	-28.41	0.83	0.43	-4.48	
2,280.00	9.80	246.65	2,269.78	-54.30	-147.09	-37.44	0.15	0.15	-0.10	
2,467.00	8.83	239.91	2,454.32	-67.81	-174.12	-47.82	0.78	-0.52	-3.60	
2,653.00	6.83	235.43	2,638.58	-81.24	-195.59	-58.76	1.12	-1.08	-2.41	
2,840.00	5.99	230.94	2,824.41	-93.70	-212.32	-69.26	0.52	-0.45	-2.40	
3,025.00	6.02	219.49	3,008.40	-107.27	-225.98	-81.20	0.65	0.02	-6.19	
3,211.00	6.25	213.63	3,193.34	-123.23	-237.79	-95.73	0.36	0.12	-3.15	
3,283.00	6.25	212.82	3,264.91	-129.78	-242.09	-101.77	0.12	0.00	-1.13	
3,402.00	6.89	213.37	3,383.13	-141.19	-249.53	-112.26	0.54	0.54	0.46	
3,589.00	7.75	243.62	3,568.67	-156.16	-267.00	-125.18	2.09	0.46	16.18	
3,775.00	8.00	243.39	3,752.91	-167.53	-289.81	-133.92	0.14	0.13	-0.12	
3,962.00	7.92	260.55	3,938.14	-175.48	-314.15	-139.08	1.27	-0.04	9.18	
4,148.00	7.77	261.28	4,122.40	-179.49	-339.22	-140.25	0.10	-0.08	0.39	
4,334.00	7.27	256.96	4,306.80	-184.05	-363.11	-142.09	0.41	-0.27	-2.32	
4,520.00	7.39	255.91	4,491.28	-189.62	-386.18	-145.04	0.10	0.06	-0.56	
4,706.00	7.58	255.54	4,675.69	-195.59	-409.66	-148.34	0.11	0.10	-0.20	
4,893.00	7.34	253.96	4,861.11	-201.97	-433.09	-152.04	0.17	-0.13	-0.84	
5,080.00	6.73	252.47	5,046.70	-208.57	-455.01	-156.14	0.34	-0.33	-0.80	
5,267.00	7.03	253.12	5,232.36	-215.20	-476.41	-160.32	0.17	0.16	0.35	
5,453.00	6.70	249.99	5,417.02	-222.22	-497.50	-164.92	0.27	-0.18	-1.68	
5,639.00	6.43	249.73	5,601.80	-229.54	-517.47	-169.95	0.15	-0.15	-0.14	
5,824.00	5.80	245.70	5,785.75	-236.97	-535.70	-175.29	0.41	-0.34	-2.18	
6,010.00	4.93	243.75	5,970.93	-244.38	-551.44	-180.88	0.48	-0.47	-1.05	
6,196.00	6.88	238.78	6,155.94	-253.69	-568.13	-188.26	1.08	1.05	-2.67	
6,382.00	6.44	235.05	6,340.68	-265.44	-586.21	-197.90	0.33	-0.24	-2.01	
6,569.00	5.96	234.11	6,526.59	-277.13	-602.67	-207.68	0.26	-0.26	-0.50	
6,756.00	5.90	239.68	6,712.59	-287.68	-618.83	-216.34	0.31	-0.03	2.98	
6,943.00	6.61	245.72	6,898.48	-296.96	-636.94	-223.52	0.52	0.38	3.23	
7,130.00	4.78	244.74	7,084.55	-304.71	-653.80	-229.33	0.98	-0.98	-0.52	
7,316.00	4.98	232.97	7,269.88	-312.88	-667.25	-235.94	0.55	0.11	-6.33	
7,502.00	6.20	237.31	7,454.99	-323.16	-682.15	-244.49	0.69	0.66	2.33	
7,688.00	6.90	246.31	7,639.78	-333.08	-700.84	-252.24	0.67	0.38	4.84	
7,874.00	5.24	251.11	7,824.73	-340.32	-719.11	-257.38	0.93	-0.89	2.58	
8,060.00	6.07	240.70	8,009.83	-347.88	-735.72	-263.03	0.71	0.45	-5.60	
8,247.00	7.40	243.98	8,195.54	-358.00	-755.16	-270.90	0.74	0.71	1.75	



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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)
8,433.00	5.62	242.14	8,380.33	-367.51	-773.98	-278.24	0.96	-0.96	-0.99
8,619.00	5.60	243.02	8,565.44	-375.89	-790.12	-284.75	0.05	-0.01	0.47
8,806.00	5.47	241.18	8,751.57	-384.32	-806.06	-291.34	0.12	-0.07	-0.98
8,992.00	6.64	242.03	8,936.53	-393.64	-823.33	-298.66	0.63	0.63	0.46
9,177.00	5.92	244.44	9,120.42	-402.77	-841.38	-305.71	0.41	-0.39	1.30
9,364.00	7.29	240.97	9,306.17	-412.69	-860.45	-313.42	0.76	0.73	-1.86
9,550.00	5.28	248.89	9,491.05	-421.50	-878.76	-320.12	1.17	-1.08	4.26
9,737.00	2.93	248.51	9,677.55	-426.35	-891.23	-323.53	1.26	-1.26	-0.20
9,923.00	2.55	266.57	9,863.34	-428.34	-899.79	-324.55	0.50	-0.20	9.71
10,074.00	2.74	263.29	10,014.18	-428.96	-906.73	-324.39	0.16	0.13	-2.17
10,130.00	3.03	280.24	10,070.11	-428.86	-909.51	-323.97	1.60	0.52	30.27
10,177.00	5.96	321.50	10,116.97	-426.72	-912.25	-321.54	8.91	6.23	87.79
10,224.00	9.67	340.18	10,163.54	-421.10	-915.11	-315.63	9.47	7.89	39.74
10,270.00	16.10	348.34	10,208.36	-411.21	-917.72	-305.51	14.49	13.98	17.74
10,317.00	23.36	351.24	10,252.57	-395.59	-920.45	-289.69	15.58	15.45	6.17
10,364.00	29.17	349.63	10,294.70	-375.10	-923.94	-268.93	12.45	12.36	-3.43
10,410.00	33.77	351.16	10,333.92	-351.43	-927.92	-244.96	10.15	10.00	3.33
10,457.00	37.14	351.95	10,372.20	-324.46	-931.92	-217.72	7.24	7.17	1.68
10,502.00	41.32	355.78	10,407.06	-296.18	-934.92	-189.28	10.73	9.29	8.51
10,549.00	47.03	358.33	10,440.76	-263.49	-936.56	-156.61	12.72	12.15	5.43
10,595.00	49.76	359.47	10,471.30	-229.10	-937.21	-122.37	6.22	5.93	2.48
10,641.00	55.85	0.57	10,499.09	-192.48	-937.19	-85.98	13.38	13.24	2.39
10,689.00	63.06	2.55	10,523.47	-151.18	-936.04	-45.08	15.43	15.02	4.13
10,735.00	71.75	4.68	10,541.13	-108.85	-933.34	-3.31	19.37	18.89	4.63
10,782.00	75.64	5.01	10,554.33	-63.91	-929.53	40.92	8.30	8.28	0.70
10,792.00	75.76	4.68	10,556.80	-54.25	-928.71	50.42	3.42	1.20	-3.30
10,851.00	76.10	3.02	10,571.14	2.85	-924.87	106.73	2.79	0.58	-2.81
10,897.00	77.58	2.71	10,581.61	47.58	-922.63	150.93	3.28	3.22	-0.67
10,944.00	79.40	1.77	10,590.99	93.60	-920.83	196.45	4.34	3.87	-2.00
10,990.00	80.66	1.06	10,598.95	138.89	-919.71	241.33	3.13	2.74	-1.54
11,038.00	79.67	0.35	10,607.15	186.18	-919.13	288.25	2.53	-2.06	-1.48
11,131.00	83.05	358.91	10,621.12	278.11	-919.73	379.67	3.94	3.63	-1.55
11,223.00	85.84	357.41	10,630.03	369.62	-922.67	470.93	3.44	3.03	-1.63
11,316.00	87.08	357.09	10,635.77	462.33	-927.12	563.55	1.38	1.33	-0.34
11,408.00	87.73	357.18	10,639.94	554.12	-931.72	655.28	0.71	0.71	0.10
11,501.00	88.80	358.20	10,642.75	647.00	-935.46	747.99	1.59	1.15	1.10
11,593.00	89.50	356.49	10,644.12	738.89	-939.72	839.77	2.01	0.76	-1.86
11,686.00	89.64	358.25	10,644.82	831.78	-943.99	932.56	1.90	0.15	1.89
11,779.00	89.41	357.26	10,645.59	924.71	-947.63	1,025.31	1.09	-0.25	-1.06
11,872.00	89.16	358.46	10,646.75	1,017.63	-951.11	1,118.04	1.32	-0.27	1.29
11,964.00	89.30	359.29	10,647.98	1,109.61	-952.91	1,209.63	0.91	0.15	0.90
12,058.00	89.33	358.57	10,649.11	1,203.58	-954.67	1,303.21	0.77	0.03	-0.77
12,151.00	89.10	358.78	10,650.38	1,296.55	-956.82	1,395.83	0.33	-0.25	0.23
12,244.00	89.33	358.37	10,651.66	1,389.51	-959.13	1,488.46	0.51	0.25	-0.44



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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)
12,337.00	89.16	358.47	10,652.88	1,482.47	-961.69	1,581.12	0.21	-0.18	0.11
12,429.00	89.30	359.39	10,654.12	1,574.44	-963.41	1,672.70	1.01	0.15	1.00
12,522.00	89.83	358.92	10,654.82	1,667.43	-964.78	1,765.25	0.76	0.57	-0.51
12,614.00	89.80	359.31	10,655.12	1,759.42	-966.20	1,856.82	0.43	-0.03	0.42
12,707.00	89.22	358.12	10,655.92	1,852.39	-968.29	1,949.44	1.42	-0.62	-1.28
12,800.00	90.00	355.44	10,656.55	1,945.23	-973.51	2,042.28	3.00	0.84	-2.88
12,892.00	90.36	356.70	10,656.26	2,037.01	-979.82	2,134.19	1.42	0.39	1.37
12,987.00	90.48	354.99	10,655.56	2,131.76	-986.70	2,229.10	1.80	0.13	-1.80
13,081.00	90.06	355.20	10,655.12	2,225.41	-994.74	2,323.07	0.50	-0.45	0.22
13,176.00	90.36	356.94	10,654.77	2,320.18	-1,001.25	2,417.97	1.86	0.32	1.83
13,269.00	89.75	356.23	10,654.68	2,413.02	-1,006.79	2,510.84	1.01	-0.66	-0.76
13,362.00	90.20	357.41	10,654.72	2,505.87	-1,011.95	2,603.69	1.36	0.48	1.27
13,455.00	89.61	358.32	10,654.88	2,598.80	-1,015.41	2,696.42	1.17	-0.63	0.98
13,548.00	89.72	358.30	10,655.42	2,691.76	-1,018.16	2,789.10	0.12	0.12	-0.02
13,641.00	88.60	357.65	10,656.78	2,784.69	-1,021.44	2,881.81	1.39	-1.20	-0.70
13,734.00	89.52	0.38	10,658.31	2,877.66	-1,023.04	2,974.37	3.10	0.99	2.94
13,828.00	89.75	358.18	10,658.91	2,971.64	-1,024.22	3,067.89	2.35	0.24	-2.34
13,921.00	89.50	358.41	10,659.52	3,064.60	-1,026.99	3,160.57	0.37	-0.27	0.25
14,014.00	89.64	359.17	10,660.22	3,157.57	-1,028.95	3,253.18	0.83	0.15	0.82
14,107.00	89.89	359.35	10,660.60	3,250.57	-1,030.15	3,345.71	0.33	0.27	0.19
14,200.00	89.58	0.03	10,661.03	3,343.56	-1,030.66	3,438.18	0.80	-0.33	0.73
14,293.00	89.69	0.46	10,661.62	3,436.56	-1,030.26	3,530.54	0.48	0.12	0.46
14,385.00	89.89	0.38	10,661.96	3,528.56	-1,029.58	3,621.88	0.23	0.22	-0.09
14,478.00	89.58	359.19	10,662.39	3,621.55	-1,029.93	3,714.33	1.32	-0.33	-1.28
14,573.00	90.87	359.05	10,662.01	3,716.54	-1,031.39	3,808.88	1.37	1.36	-0.15
14,666.00	90.11	356.97	10,661.22	3,809.47	-1,034.62	3,901.59	2.38	-0.82	-2.24
14,759.00	90.11	356.43	10,661.04	3,902.32	-1,039.97	3,994.44	0.58	0.00	-0.58
14,852.00	90.25	356.27	10,660.75	3,995.13	-1,045.89	4,087.33	0.23	0.15	-0.17
14,945.00	90.31	356.52	10,660.29	4,087.94	-1,051.74	4,180.22	0.28	0.06	0.27
15,039.00	89.75	356.47	10,660.24	4,181.77	-1,057.49	4,274.09	0.60	-0.60	-0.05
15,132.00	89.75	356.45	10,660.65	4,274.59	-1,063.23	4,366.97	0.02	0.00	-0.02
15,225.00	90.00	357.18	10,660.85	4,367.45	-1,068.40	4,459.82	0.83	0.27	0.78
15,318.00	89.83	357.03	10,660.99	4,460.33	-1,073.09	4,552.64	0.24	-0.18	-0.16
15,411.00	90.36	357.23	10,660.84	4,553.21	-1,077.75	4,645.46	0.61	0.57	0.22
15,504.00	90.42	356.16	10,660.20	4,646.05	-1,083.11	4,738.32	1.15	0.06	-1.15
15,597.00	90.81	355.46	10,659.21	4,738.80	-1,089.91	4,831.24	0.86	0.42	-0.75
15,690.00	91.62	354.83	10,657.23	4,831.44	-1,097.78	4,924.18	1.10	0.87	-0.68
15,784.00	93.03	355.47	10,653.42	4,925.02	-1,105.72	5,018.06	1.65	1.50	0.68
15,886.00	91.48	353.65	10,649.41	5,026.48	-1,115.38	5,119.96	2.34	-1.52	-1.78
15,979.00	89.47	356.38	10,648.64	5,119.11	-1,123.46	5,212.91	3.65	-2.16	2.94
16,072.00	88.43	358.21	10,650.34	5,211.99	-1,127.85	5,305.69	2.26	-1.12	1.97
16,166.00	87.81	359.27	10,653.42	5,305.91	-1,129.91	5,399.26	1.31	-0.66	1.13
16,258.00	87.62	0.94	10,657.09	5,397.83	-1,129.74	5,490.58	1.83	-0.21	1.82



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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)
16,352.00	88.82	2.34	10,660.01	5,491.75	-1,127.06	5,583.59	1.96	1.28	1.49
16,445.00	88.96	4.30	10,661.81	5,584.57	-1,121.67	5,675.22	2.11	0.15	2.11
16,538.00	90.11	3.88	10,662.57	5,677.33	-1,115.04	5,766.65	1.32	1.24	-0.45
16,630.00	90.14	4.18	10,662.37	5,769.10	-1,108.57	5,857.11	0.33	0.03	0.33
16,723.00	90.59	3.93	10,661.78	5,861.86	-1,102.00	5,948.55	0.55	0.48	-0.27
16,815.00	90.84	1.59	10,660.63	5,953.74	-1,097.57	6,039.35	2.56	0.27	-2.54
16,908.00	89.89	0.51	10,660.03	6,046.72	-1,095.86	6,131.55	1.55	-1.02	-1.16
17,001.00	89.36	358.75	10,660.64	6,139.72	-1,096.46	6,224.03	1.98	-0.57	-1.89
17,094.00	87.95	357.32	10,662.83	6,232.63	-1,099.65	6,316.71	2.16	-1.52	-1.54
17,187.00	91.06	357.46	10,663.63	6,325.52	-1,103.89	6,409.49	3.35	3.34	0.15
17,280.00	89.80	358.54	10,662.93	6,418.46	-1,107.13	6,502.20	1.78	-1.35	1.16
17,372.00	89.64	358.86	10,663.38	6,510.43	-1,109.22	6,593.83	0.39	-0.17	0.35
17,466.00	89.61	359.80	10,664.00	6,604.42	-1,110.32	6,687.35	1.00	-0.03	1.00
17,558.00	89.50	0.07	10,664.71	6,696.42	-1,110.42	6,778.77	0.32	-0.12	0.29
17,654.00	89.52	359.94	10,665.53	6,792.42	-1,110.41	6,874.16	0.14	0.02	-0.14
17,746.00	89.64	359.71	10,666.21	6,884.41	-1,110.69	6,965.61	0.28	0.13	-0.25
17,839.00	89.58	359.34	10,666.84	6,977.41	-1,111.46	7,058.10	0.40	-0.06	-0.40
17,931.00	89.97	0.22	10,667.20	7,069.40	-1,111.82	7,149.55	1.05	0.42	0.96
18,023.00	89.02	359.70	10,668.01	7,161.40	-1,111.88	7,240.97	1.18	-1.03	-0.57
18,115.00	89.02	359.11	10,669.59	7,253.38	-1,112.84	7,332.48	0.64	0.00	-0.64
18,208.00	88.99	359.39	10,671.20	7,346.36	-1,114.05	7,425.01	0.30	-0.03	0.30
18,300.00	90.31	359.47	10,671.76	7,438.35	-1,114.97	7,516.52	1.44	1.43	0.09
18,392.00	89.55	359.59	10,671.87	7,530.35	-1,115.72	7,608.02	0.84	-0.83	0.13
18,485.00	89.66	359.15	10,672.52	7,623.34	-1,116.75	7,700.54	0.49	0.12	-0.47
18,577.00	89.89	358.99	10,672.88	7,715.33	-1,118.24	7,792.11	0.30	0.25	-0.17
18,669.00	90.08	359.58	10,672.90	7,807.32	-1,119.39	7,883.65	0.67	0.21	0.64
18,761.00	89.92	359.41	10,672.90	7,899.31	-1,120.20	7,975.15	0.25	-0.17	-0.18
18,854.00	89.89	359.22	10,673.06	7,992.31	-1,121.31	8,067.68	0.21	-0.03	-0.20
18,946.00	90.45	0.24	10,672.78	8,084.30	-1,121.74	8,159.15	1.26	0.61	1.11
19,038.00	90.06	359.93	10,672.37	8,176.30	-1,121.61	8,250.55	0.54	-0.42	-0.34
19,130.00	89.94	359.17	10,672.37	8,268.30	-1,122.33	8,342.04	0.84	-0.13	-0.83
19,222.00	89.86	359.18	10,672.53	8,360.29	-1,123.66	8,433.60	0.09	-0.09	0.01
19,315.00	89.80	358.24	10,672.81	8,453.27	-1,125.75	8,526.22	1.01	-0.06	-1.01
19,407.00	89.92	359.05	10,673.03	8,545.24	-1,127.92	8,617.86	0.89	0.13	0.88
19,499.00	89.30	1.54	10,673.66	8,637.23	-1,127.45	8,709.21	2.79	-0.67	2.71
19,591.00	89.52	2.13	10,674.61	8,729.17	-1,124.51	8,800.24	0.68	0.24	0.64
19,684.00	89.38	1.56	10,675.50	8,822.12	-1,121.51	8,892.27	0.63	-0.15	-0.61
19,776.00	89.52	1.99	10,676.38	8,914.07	-1,118.66	8,983.32	0.49	0.15	0.47
19,868.00	89.50	1.50	10,677.17	9,006.03	-1,115.86	9,074.37	0.53	-0.02	-0.53
19,961.00	89.50	1.78	10,677.98	9,098.99	-1,113.20	9,166.44	0.30	0.00	0.30
20,053.00	89.97	1.41	10,678.41	9,190.95	-1,110.64	9,257.54	0.65	0.51	-0.40
20,145.00	88.96	359.47	10,679.27	9,282.94	-1,109.93	9,348.86	2.38	-1.10	-2.11
20,237.00	89.47	359.46	10,680.53	9,374.92	-1,110.79	9,440.36	0.55	0.55	-0.01



Altitude Energy Partners

Survey Report



Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Buffalo Trace 1-36 W1NC Fed Com #3H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Site:	Buffalo Trace Pad	MD Reference:	RKB=28' @ 3046.00usft (Patterson 564)
Well:	Buffalo Trace 1-36 W1NC Fed Com #3H	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)
20,330.00	89.52	359.37	10,681.35	9,467.91	-1,111.74	9,532.87	0.11	0.05	-0.10
20,422.00	89.47	359.41	10,682.16	9,559.91	-1,112.72	9,624.39	0.07	-0.05	0.04
20,514.00	89.41	359.42	10,683.06	9,651.90	-1,113.66	9,715.91	0.07	-0.07	0.01
20,606.00	89.41	0.29	10,684.00	9,743.89	-1,113.89	9,807.34	0.95	0.00	0.95
20,699.00	89.52	0.15	10,684.87	9,836.89	-1,113.53	9,899.71	0.19	0.12	-0.15
20,754.00	89.50	359.79	10,685.34	9,891.88	-1,113.56	9,954.36	0.66	-0.04	-0.65
Last AEP Survey									
20,793.00	89.50	359.79	10,685.68	9,930.88	-1,113.71	9,993.13	0.00	0.00	0.00
PTB @ 20793'									

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
W1NC #3H BB Point	0.00	0.00	10,075.0 4	-409.99	-902.90	387,346.21	663,951.61	32.064277	-103.937514
- actual wellpath misses target center by 20.03usft at 10135.38usft MD (10075.49 TVD, -428.78 N, -909.80 E)									
- Point									
W1NC #3H PBHL	0.00	0.00	10,668.0 0	9,917.60	-1,122.06	397,673.80	663,732.44	32.092668	-103.938099
- actual wellpath misses target center by 19.47usft at 20779.60usft MD (10685.57 TVD, 9917.48 N, -1113.66 E)									
- Point									

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
961.00	960.88	-13.04	-2.64	First AEP Survey
20,754.00	10,685.34	9,891.88	-1,113.56	Last AEP Survey
20,793.00	10,685.68	9,930.88	-1,113.71	PTB @ 20793'

Checked By: _____ Approved By: _____ Date: _____



ALTITUDE ENERGY PARTNERS LLC. SURVEY DATA CERTIFICATION

ALTITUDE JOB NUMBER	AEP20099	OPERATOR	Mewbourne Oil Company
WELL NAME	Buffalo Trace 1-36 W1CN FED COM 3H	COUNTY & STATE	Eddy New Mexico
API WELL NUMBER	30-015-46771	PROPOSED DIRECTION	353.55
Latitude	32.065394	Longitude	-103.934594

TIE-IN DATA						
MEASURED	VERTICAL			N-S	E-W	DATA
DEPTH	DEPTH	INCLIN	AZIMUTH	COORD	COORD	SOURCE
810	809.93	1.41	188.06	-9.61	-2.33	GYRO
FIRST SURVEY DATE	FIRST SURVEY DEPTH	INCLIN	AZIMUTH		SURVEY INSTRUMENT TYPE	
					MWD	
2/16/2020	961	1.21	181.92	MAGNETIC DECLINATION OR TOTAL GRID		
LAST SURVEY DATE	LAST SURVEY DEPTH	INCLIN	AZIMUTH	TOTAL CORRECTION USED		6.47
				DECLINATION OR GRID		GRID
4/8/2020	20754	89.50	359.79			
PROJECTED TD SURVEY DATE	PROJECTED TD SURVEY DEPTH	INCLIN	AZIMUTH			
4/8/2020	20793			89.50	359.79	
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.						

RORARY D. CUMMINGS

PRINT MWD NAME ABOVE

RORARY D. CUMIINGS

SIGN MWD NAME ABOVE

4/8/2020

TODAY'S DATE

RORARY D. CUMMINGS

PRINT MWD NAME ABOVE

RORARY D. CUMIINGS

SIGN MWD NAME ABOVE

4/8/2020

TODAY'S DATE

7197 Derrick Dr.

Casper, WY 82604

307-237-2372

Intent ☒ As Drilled ☐

API # 30-015-46771		
Operator Name: Mewbourne Oil Co.	Property Name: Buffalo Trace 1/36 W1NC Fed Com	Well Number 3H

Kick Off Point (KOP)

UL C	Section 12	Township 26S	Range 29E	Lot	Feet 8	From N/S N	Feet 2459	From E/W W	County Eddy
Latitude 32.0642245					Longitude -103.9375353				NAD 83

First Take Point (FTP)

UL N	Section 1	Township 26S	Range 29E	Lot	Feet 340	From N/S S	Feet 2457	From E/W W	County Eddy
Latitude 32.0651833					Longitude -103.9376002				NAD 83

Last Take Point (LTP)

UL C	Section 36	Township 25S	Range 29E	Lot	Feet 374	From N/S N	Feet 2598	From E/W W	County Eddy
Latitude 32.0925507					Longitude -103.938072				NAD 83

Is this well the defining well for the Horizontal Spacing Unit? ☒Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Well Completion Print Report

02/11/2021

Operator Name MEWBOURNE OIL COMPANY SHL SWSE Sec 1 26S 29E	Well Name BUFFALO TRACE 1/36 H3OB FED	Well Number 2H	US Well Number 3001546771
Well Type CONVENTIONAL GAS WELL	County EDDY	State NM	Lease Number(s) NMNM023765, NMNM23765, NMNM23765
Allottee/Tribe Name	Well Status Approved Application for Permit to Drill	Agreement Name	Agreement Number(s)
	Well Pad Name BUFFALO TRACE 1/36 OB FED COM	Well Pad Number 3	ID 10400043660

Section 1 - General

Well Completion Report Id: 33047 **Submission Date:** N/A until DB Work

BLM Office: Carlsbad Field Office **User:** Bradley Bishop **Title:** Regulatory

Federal/Indian: FEDERAL **Lease Number:** NMNM023765 **Lease Acres:** 320

Agreement in place?: NO **Federal or Indian Agreement:**

Agreement Number: **Agreement Name:**

Keep this Well Completion Report confidential?: YES

APD Operator: MEWBOURNE OIL
COMPANY

Section 2 - Well Information

Field/Pool or Exploratory: Field/Pool **Pool Name:** Wolfcamp **Field Name:** Purple Sage Wolfcamp G

Well Type: CONVENTIONAL GAS WELL

Spud Date: 03-14-2020

Date Total Measured Depth Reached: 04-08-2020

Drill & Abandon or Ready To Produce: READY TO PRODUCE

Well Class: HORIZONTAL

Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
RUSTLER	ANHYDRITE		3017	27	27	NONE	

Operator Name MEWBOURNE OIL COMPANY SHL SWSE Sec 1 26S 29E	Well Name BUFFALO TRACE 1/36 H3OB FED	Well Number 2H	US Well Number 3001546771
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Section 3 - Geologic Formations

Formation Name	Lithology	Describe Lithology	Elevation	TVD	MD	Mineral Resources	Describe Mineral Resources
RUSTLER	SALT		2137	880	880	NONE	
TOP SALT	SALT		2011	1006	1006	NONE	
BOTTOM SALT	SALT		-72	3089	3089	NONE	
LAMAR	LIMESTONE		-261	3278	3278	NATURAL GAS, OIL	
BELL CANYON	SANDSTONE		-309	3326	3326	NATURAL GAS, OIL	
CHERRY CANYON	SANDSTONE		-1189	4206	4206	NATURAL GAS, OIL	
MANZANITA	LIMESTONE		-1359	4376	4376	NATURAL GAS, OIL	
BRUSHY CANYON	SANDSTONE		-3809	6826	6826	NATURAL GAS, OIL	
BONE SPRING	LIMESTONE, SHALE		-4039	7056	7056	NATURAL GAS, OIL	
BONE SPRING 1ST	SANDSTONE		-4949	7966	7966	NATURAL GAS, OIL	
BONE SPRING 2ND	SANDSTONE		-5621	8638	8638	NATURAL GAS, OIL	
BONE SPRING 3RD	SANDSTONE		-7029	10046	10046	NATURAL GAS, OIL	

Completion and Completed Intervals

Operator Name MEWBOURNE OIL COMPANY SHL SWSE Sec 1 26S 29E	Well Name BUFFALO TRACE 1/36 H3OB FED	Well Number 2H	US Well Number 3001546771
	County EDDY	State NM	Lease Number(s) NMNM023765, NMNM23765, NMNM23765
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Allottee/Tribe Name	Well Pad Name BUFFALO TRACE 1/36 OB FED COM	Well Pad Number 3	ID 10400043660

Completion Data

Wellbore Code	Completion Code	Interval Number	Case Number	Lease Number	Well Completion Type	Describe Well Completion Type	Completion Status	Date Completed	Date First Produced	Formation	Interval Top (MD)	Interval Bottom (MD)	Interval Perforated?	Perforation Size	Number of Holes	Status of Interval
00	X1	1	NMNM23765	NMNM23765	NEW		GLG	12-18-2020	01-12-2021	WOLFCA MP	10765	20737	Y	.5	2880	OPEN

Treatment Data

Wellbore Code	Completion Code	Interval Number	Interval Treated?	Treatment Type	Tottle Fluid (bbls)	Total Proppant (lbs)	Treatment Remarks
00	X1	1	Y	FRAC	599237		Frac horizontal Wolfcamp w/25167954 gals slickwater, carrying 23881769# local 100 mesh sand.

Production Data

Wellbore Code	Completion Code	Interval Number	API Oil Gravity	Gas Gravity	Production Method	Describe Production	Disposition of Gas	Describe Disposition
00	X1	1			GAS LIFT		SOLD	

Operator Name MEWBOURNE OIL COMPANY SHL SWSE Sec 1 26S 29E	Well Name BUFFALO TRACE 1/36 H3OB FED	Well Number 2H	US Well Number 3001546771
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Well Type CONVENTIONAL GAS WELL	Well Status Approved Application for Permit to Drill	Agreement Name	Agreement Number(s)
Allottee/Tribe Name	Well Pad Name BUFFALO TRACE 1/36 OB FED COM	Well Pad Number 3	ID 10400043660

Test Data

Wellbore Code	Completion Code	Interval Number	Test Date	Hours Tested	24-Hour Rate Oil (bbls)	24-Hour Rate Gas (MCF)	24-Hour Rate Water(BWPD)	Gas-Oil Ratio (SCF/Bbl)	Choke Size	Tubing Pressure	Tubing Pressure Shut-In (psi)	Casing Pressure (psi)
00	X1	1	01/16/2021	24	863	2842	3214	3293	36/64	2650		2030

Well Location

Survey Type: RECTANGULAR

Survey Number: 1

Datum: NAD83

Vertical Datum: NAVD88

Reference Datum:

State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/L of Tract
SHL	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0653943	-103.9345942	3017	FEDERAL	NMNM023765			400	FSL	1660	FEL	26S	29E	1	SWSE
KOP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0642245	-103.9375353	-7053	FEDERAL	NMNM0111039			8	FNL	2459	FWL	26S	29E	12	NENW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0789769	-103.9381091	-7636	STATE	STATE			0	FSL	2583	FWL	25S	29E	36	SESW
PPP Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0651833	-103.9376002	-7532	FEDERAL	NMNM106690			340	FSL	2457	FWL	26S	29E	1	SESW

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	State	Meridian	County	Latitude	Longitude	Elevation (MSL)	Lease Type	Lease Number	Plug TVD (ft)	Plug MD (ft)	Plug Type	NS-Foot	NS-Indicator	EW-Foot	EW-Indicator	Township	Range	Section	Aliquot/Lot/Tract
EXIT Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0925507	-103.938072	-7668	STATE	STATE				374	FNL	2598	FWL	25S	29E	36	NENW
BHL Well bore 00	NEW MEXICO	NEW MEXICO PRINCIPAL	EDDY	32.0927047	-103.9380719	-7669	STATE	STATE				318	FNL	2598	FWL	25S	29E	36	NENW

Casing, Liner and Tubing

Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	SURFACE	17.5	0	881	13.375	54.5	J-55		ST&C		
00	INTERMEDIATE	12.25	0	3308	9.625	37	HCL-80		LT&C		

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Casing and Liner

Wellbore Code	Casing String Type	Hole Size	Top Setting Depth (MD)	Bottom Setting Depth (MD)	Casing Size	Wt(lbs/ft)	Casing Grade	Describe Other Casing Grade	Joint	Other Joint	Amount Pulled (ft)
00	PRODUCTION	8.75	0	10525	7.625	39	HCP-110		OTHER	LFJ	
00	LINER	6.125	10097	20793	4.5	13.5	HCP-110		OTHER	HTQ	

Cementing

Wellbore Code	Casing String Type	Stage Tool Depth	Cement Lead Type	Cement Lead Qty (sks)	Cement Lead Yield (cu.ft/sks)	Cement Lead Top (MD)	Cement Tail Type	Cement Tail Qty (sks)	Cement Tail Yield(cu.ft/sks)	Cement Tail Top (MD)	Total (Lead + Tail) Cement Slurry Volume (bbbls)
00	SURFACE		Class C	575	1.73	0	Class C	200	1.33	498	224.5
00	INTERMEDIATE		Class C	550	2.55	0	Class C	200	1.32	2465	296.8
00	PRODUCTION		Class C	200	4.05	2050	Class H	398	1.18	7378	227.9
00	LINER		Poz H	950	1.6	10097				925	270.7

Tubing

Wellbore Code	Tubing Size	Describe Other	Tubing Setting Depth (MD/ft)	Packer Depth (MD/ft)	Tubing Weight	Tubing Grade	Describe Other	Tubing Coupling	Describe Other
00	3.5		9215	9206	9	L-80		OTHER	IPC

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Logs

Wellbore Code	Log Upload	Was Well Cored?	Was DST Run?	Directional Survey?	Geologic Report Completed?	Wellbore Diagram
00	YES	NO	NO	YES	YES	YES

Operator Certification

I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Well Completion Reports through this system satisfies regulations requiring a submission of Form 3160-4 or a Well Completion Report.

Name: MEWBOURNE OIL COMPANY

Signed By: Bradley Bishop

Title: Regulatory

Signed on: 02/10/2021

Street Address: P O BOX 5270

City: HOBBS

State: NM

Zip: 88241

Phone: (505)393-5905

Email address:

Field Representative

Representative Name: Jackie Lathan

Street Address: PO Box 5270

City: Hobbs

State: NM

Zip: 88241

Phone: (575)393-5905

Extension:

Email address: jlathan@mewbourne.com

Operator Name MEWBOURNE OIL COMPANY SHL SWSE Sec 1 26S 29E	Well Name BUFFALO TRACE 1/36 H3OB FED	Well Number 2H	US Well Number 3001546771
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Attachments

BUFFALO_TRACE_1_36_W1NC_FED_COM_3H_20210128094018.pdf
Buffalo_Trace_1_36_W1NC_Fed_Com_3H_5inMD_20210128094123.pdf
Buffalo_Trace_1_36_W1NC_Fed_Com_3H_5inTVD_20210128094139.pdf
Buffalo_Trace_1_36_W1NC_Fed_Com__20210128094237
20210210153243_20210210143300.pdf

Mewbourne Oil Company

Well Name: Buffalo Trace 1/36 W1NC Fed Com #3H

Updated by: Andy Taylor

Spud Date: 3/14/2020

Date Updated: 2/9/2021

Surface

17 1/2" x 13 3/4" 54.5# J55

Set @ 881'

Cmt w/ 775 sx

Circ. 325 sx to pit

Intermediate

12 3/4" x 9 3/4" 40# HCL80

Set @ 3308'

Cmt w/ 750 sx

Circ. 127 sx to pit

Production

8 3/4" x 7 7/8" 39# HCP110 FJ

Set @ 10,525'

Cmt w/ 600 sx

TOC @ 2049' (Calc)

TBG Detail:

1	3 1/2" x 7" AS 1X Pkr	9.25'
1	3 1/2" SN & Collar	1.10'
1	3 1/2" 9.3# L80 IPC tbg	32.80'
1	3 1/2" L80 IPC GLV #1	4.10'
21	3 1/2" 9.3# L80 IPC tbg	689.4'
1	3 1/2" L80 IPC GLV #2	4.10'
20	3 1/2" 9.3# L80 IPC tbg	656.41'
1	3 1/2" L80 IPC GLV #3	4.10'
21	3 1/2" 9.3# L80 IPC tbg	687.31'
1	3 1/2" L80 IPC GLV #4	4.10'
20	3 1/2" 9.3# L80 IPC tbg	653.28'
1	3 1/2" L80 IPC GLV #5	4.10'
21	3 1/2" 9.3# L80 IPC tbg	686.55'
1	3 1/2" L80 IPC GLV #6	4.10'
21	3 1/2" 9.3# L80 IPC tbg	687.20'
1	3 1/2" L80 IPC GLV #7	4.10'
24	3 1/2" 9.3# L80 IPC tbg	786.69'
1	3 1/2" L80 IPC GLV #8	4.10'
25	3 1/2" 9.3# L80 IPC tbg	819.59'
1	3 1/2" L80 IPC GLV #9	4.10'
26	3 1/2" 9.3# L80 IPC tbg	852.92'
1	3 1/2" L80 IPC GLV #10	4.10'
28	3 1/2" 9.3# L80 IPC tbg	918.53'
1	3 1/2" L80 IPC GLV #11	4.10'
51	3 1/2" 9.3# L80 IPC tbg	1673.11'
Total tbg		9199.24'
KB Correction		16.00'
Tbg set @		9215.24'

Liner

6 1/8" x 4 1/2" 13.5# HCP110

Set @ 10,097' - 20,793'

Cmt w/ 950 sx

KOP @ 10,130'

Dev @ KOP: 3.03°

TVD @ 10,686'

TD 6 1/8" hole @ 20,793'

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 21579

ACKNOWLEDGMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 21579
	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

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
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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 21579

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 21579
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
ksimmons	None	6/17/2021