

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
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

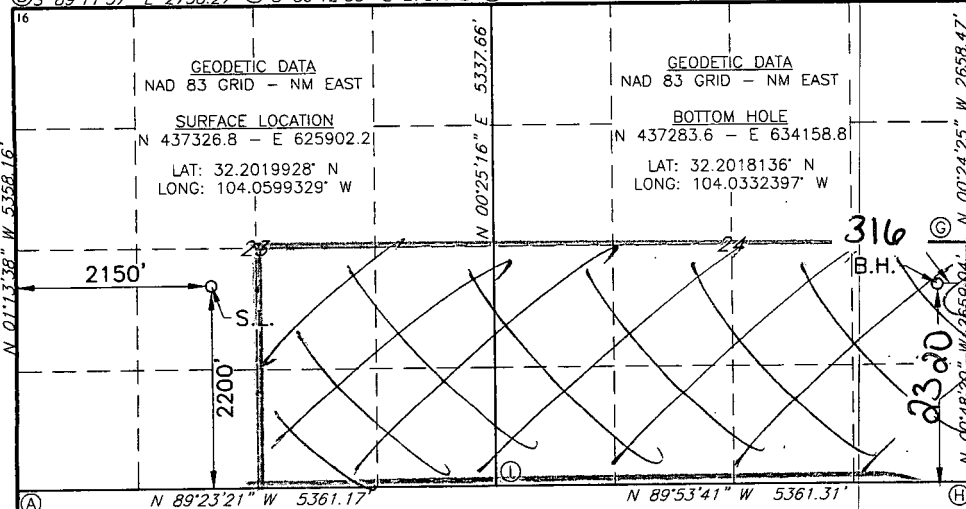
☒ AMENDED REPORT
AS drilled

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-46089		2 Pool Code 98220		3 Pool Name Purple Sage; Wolfcamp (Gas)	
4 Property Code 325749		5 Property Name QUEEN 23/24 WOJI FEDERAL COM			
7 OGRID NO. 14744		8 Operator Name MEWBOURNE OIL COMPANY			
6 Well Number 1H					
9 Elevation 2980'					
10 Surface Location					
UL or lot no. K	Section 23	Township 24S	Range 28E	Lot Idn	Feet from the 2200
			North/South line SOUTH	Feet From the 2150	East/West line WEST
County EDDY					
11 Bottom Hole Location If Different From Surface					
UL or lot no. I	Section 24	Township 24S	Range 28E	Lot Idn	Feet from the 2320
			North/South line SOUTH	Feet from the 316	East/West line EAST
County EDDY					
12 Dedicated Acres 480		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.

⑤ S 89°11'37" E 2758.27' ⑥ S 89°12'55" E 2757.12' ⑦ N 89°40'59" W 2634.62' ⑧ N 89°39'37" W 2631.26' ⑨



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: 11/04/19
Printed Name: Jackie Lathan
E-mail Address: _____

18 SURVEYOR CERTIFICATION
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date of Survey: 04-10-2018
Signature and Seal of Professional Surveyor: Robert M. Howett
Certificate Number: 19680

Job No.: LS1803362R

Intent ☐ As Drilled ☒

API #
30-015-46089

Operator Name: Mewbourne Oil Company	Property Name: Queen 23/24 WOJI Fed Com	Well Number #1H
---	--	--------------------

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
	23	24S	28E		1851	S	2497	W	Ellis
Latitude					Longitude				NAD
32.2010265					-104.0588165				83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	23	24S	28E		1543	S	2293	E	Ellis
Latitude					Longitude				NAD
32.2001560					-104.0567177				83

Last Take Point (LTP)

1353

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
I	24	24S	28E		1353	EGL	332	FEL	Ellis
Latitude					Longitude				NAD
32.1994880					-104.0331998				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 #
30-015-44250

Operator Name: Mewbourne Oil Co.	Property Name: Queen 23/24 WOOFELCOM	Well Number 1H
-------------------------------------	---	-------------------

KZ 06/29/2018



MEWBOURNE
OIL COMPANY

RECEIVED

NOV 14 2019

DISTRICT/ARTESIA O.C.D.

Mewbourne Oil Company

Eddy Co., NM (NAD 83)
Queen 23-24 W0J1
Fed Com 1H

OH

Survey: MWD Survey

Standard Survey Report

16 September, 2019

A Certified Directional Survey
requested as required by NMOCD
Rule 19.15.16.14 NMAC



L T I T U D E
ENERGY PARTNERS

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0JI	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Project	Eddy Co., NM (NAD 83)	
Map System:	US State Plane 1983	System Datum:
Geo Datum:	North American Datum 1983	Mean Sea Level
Map Zone:	New Mexico Eastern Zone	

Site	Queen 23-24 W0JI	
Site Position:	Northing:	437,376.70 usft
From:	Easting:	625,901.10 usft
Position Uncertainty:	Slot Radius:	13-3/16 "
	Latitude:	32.202130
	Longitude:	-104.059936
	Grid Convergence:	0.15 °

Well	Fed Com 1H	
Well Position	+N/-S	0.00 usft
	+E/-W	0.00 usft
Position Uncertainty	Wellhead Elevation:	0.00 usft
	Northing:	437,326.80 usft
	Easting:	625,902.20 usft
	Latitude:	32.201993
	Longitude:	-104.059933
	Ground Level:	2,980.00 usft

Wellbore	OH	
Magnetics	Model Name	Sample Date
	HDGM	08/05/19
	Declination (°)	7.05
	Dip Angle (°)	59.92
	Field Strength (nT)	47,869.90000000

Design	OH	
Audit Notes:	Version:	1.0
	Phase:	ACTUAL
	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)
	0.00	0.00
	+E/-W (usft)	Direction (°)
	0.00	96.09

Survey Program	Date	09/16/19
From (usft)	To (usft)	Survey (Wellbore)
100.00	17,472.00	MWD Survey (OH)
	Tool Name	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
100.00	0.13	153.78	100.00	-0.10	0.05	0.06	0.13	0.13	0.00
200.00	0.28	80.34	200.00	-0.16	0.34	0.36	0.27	0.15	-73.44
300.00	0.66	334.95	300.00	0.40	0.34	0.29	0.78	0.38	-105.39
322.00	1.27	33.86	321.99	0.72	0.42	0.34	4.94	2.77	267.77
492.00	2.47	347.59	491.91	5.86	0.68	0.06	1.08	0.71	-27.22
First MWD Survey									
674.00	2.69	345.78	673.72	13.83	-1.21	-2.67	0.13	0.12	-0.99
857.00	2.54	340.63	856.53	21.82	-3.61	-5.90	0.15	-0.08	-2.81
1,043.00	2.43	334.43	1,042.36	29.26	-6.68	-9.74	0.16	-0.06	-3.33
1,229.00	2.12	314.37	1,228.22	35.23	-10.84	-14.51	0.46	-0.17	-10.78

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0J1	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)
1,414.00	2.05	305.74	1,413.09	39.55	-15.97	-20.08	0.17	-0.04	-4.66
1,600.00	1.95	317.07	1,598.98	43.81	-20.83	-25.36	0.22	-0.05	6.09
1,786.00	2.37	300.02	1,784.85	48.05	-26.31	-31.26	0.41	0.23	-9.17
1,973.00	0.39	357.28	1,971.79	50.62	-29.69	-34.89	1.17	-1.06	30.62
2,161.00	0.89	92.79	2,159.78	51.19	-28.26	-33.53	0.53	0.27	50.80
2,349.00	3.29	117.52	2,347.65	48.63	-22.02	-27.05	1.33	1.28	13.15
2,535.00	2.83	113.12	2,533.38	44.36	-13.06	-17.69	0.28	-0.25	-2.37
2,728.00	4.35	116.35	2,726.00	39.24	-2.12	-6.27	0.79	0.79	1.67
2,915.00	5.13	129.68	2,912.36	30.75	10.67	-7.35	0.72	0.42	7.13
3,101.00	5.48	138.54	3,097.57	18.79	22.95	20.83	0.48	0.19	4.76
3,288.00	5.43	140.14	3,283.72	5.30	34.53	33.77	0.09	-0.03	0.86
3,474.00	5.23	137.16	3,468.92	-7.67	45.94	46.49	0.18	-0.11	-1.60
3,659.00	5.35	133.59	3,653.13	-19.80	57.92	59.69	0.19	0.06	-1.93
3,845.00	6.69	145.10	3,838.11	-34.66	70.40	73.68	0.97	0.72	6.19
4,031.00	6.94	144.95	4,022.79	-52.75	83.05	88.18	0.13	0.13	-0.08
4,217.00	7.89	143.01	4,207.23	-72.15	97.18	104.29	0.53	0.51	-1.04
4,403.00	8.67	141.64	4,391.29	-93.34	113.57	122.83	0.43	0.42	-0.74
4,589.00	8.87	134.82	4,575.12	-114.44	132.44	143.83	0.57	0.11	-3.67
4,775.00	6.21	130.99	4,759.50	-131.15	150.21	163.27	1.45	-1.43	-2.06
4,961.00	5.24	131.70	4,944.57	-143.40	164.14	178.43	0.52	-0.52	0.38
5,148.00	3.71	138.17	5,131.00	-153.58	174.55	189.86	0.86	-0.82	3.46
5,335.00	3.08	139.49	5,317.67	-161.91	181.85	198.00	0.34	-0.34	0.71
5,520.00	3.81	137.36	5,502.33	-170.21	189.24	206.23	0.40	0.39	-1.15
5,707.00	5.03	140.59	5,688.77	-181.12	198.66	216.75	0.67	0.65	1.73
5,893.00	4.52	141.62	5,874.13	-193.16	208.38	227.70	0.28	-0.27	0.55
6,081.00	3.97	139.74	6,061.61	-203.94	217.19	237.60	0.30	-0.29	-1.00
6,267.00	4.79	133.97	6,247.07	-214.24	226.94	248.39	0.50	0.44	-3.10
6,453.00	2.70	137.39	6,432.66	-222.86	235.50	257.81	1.13	-1.12	1.84
6,639.00	2.36	119.87	6,618.48	-227.99	241.78	264.61	0.45	-0.18	-9.42
6,826.00	3.40	76.64	6,805.26	-228.63	250.52	273.36	1.25	0.56	-23.12
7,011.00	3.89	86.48	6,989.89	-226.97	262.12	284.72	0.43	0.26	5.32
7,198.00	5.92	99.89	7,176.20	-228.24	277.95	300.60	1.24	1.09	7.17
7,384.00	4.64	126.12	7,361.43	-234.32	293.48	316.69	1.45	-0.69	14.10
7,570.00	4.49	142.65	7,546.85	-244.55	303.98	328.21	0.71	-0.08	8.89
7,755.00	2.83	130.02	7,731.47	-253.24	311.87	336.97	0.99	-0.90	-6.83
7,942.00	2.95	138.21	7,918.23	-259.80	318.61	344.37	0.23	0.06	4.38
8,128.00	5.00	150.28	8,103.78	-270.41	325.82	352.67	1.18	1.10	6.49
8,314.00	5.79	166.19	8,288.96	-286.56	332.08	360.60	0.91	0.42	8.55
8,501.00	3.91	158.03	8,475.29	-301.63	336.71	366.81	1.07	-1.01	-4.36
8,686.00	4.56	182.90	8,659.80	-314.83	338.70	370.19	1.04	0.35	13.44
8,873.00	4.67	184.27	8,846.19	-329.84	337.76	370.85	0.08	0.06	0.73
9,059.00	4.70	179.86	9,031.57	-345.01	337.21	371.91	0.19	0.02	-2.37
9,107.00	4.47	183.44	9,079.42	-348.85	337.11	372.21	0.76	-0.48	7.46

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0J1	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)	
9,169.00	5.45	155.10	9,141.19	-353.93	338.20	373.84	4.20	1.58	-45.71	
9,200.00	7.89	139.72	9,171.98	-356.89	340.20	376.14	9.69	7.87	-49.61	
9,231.00	10.64	131.05	9,202.58	-360.39	343.73	380.03	9.92	8.87	-27.97	
9,262.00	13.43	124.79	9,232.89	-364.33	348.85	385.53	9.92	9.00	-20.19	
9,293.00	17.45	121.13	9,262.77	-368.79	355.79	392.90	13.34	12.97	-11.81	
9,325.00	20.71	122.63	9,293.01	-374.32	364.66	402.32	10.30	10.19	4.69	
9,356.00	24.41	122.14	9,321.63	-380.68	374.71	412.98	11.95	11.94	-1.58	
9,387.00	28.88	120.94	9,349.33	-387.95	386.56	425.53	14.52	14.42	-3.87	
9,418.00	33.05	121.13	9,375.91	-396.17	400.22	439.99	13.46	13.45	0.61	
9,450.00	37.42	120.28	9,402.04	-405.59	416.09	456.77	13.74	13.66	-2.66	
9,480.00	41.13	118.97	9,425.26	-414.96	432.60	474.18	12.67	12.37	-4.37	
9,511.00	45.30	116.96	9,447.85	-424.90	451.35	493.88	14.16	13.45	-6.48	
9,542.00	49.40	115.97	9,468.85	-435.06	471.76	515.25	13.43	13.23	-3.19	
9,573.00	52.89	116.09	9,488.29	-445.65	493.45	537.94	11.26	11.26	0.39	
9,604.00	55.53	117.25	9,506.42	-456.94	515.91	561.48	9.04	8.52	3.74	
9,635.00	58.21	116.62	9,523.36	-468.69	539.06	585.74	8.81	8.65	-2.03	
9,666.00	60.48	116.74	9,539.17	-480.67	562.88	610.70	7.33	7.32	0.39	
9,697.00	62.63	116.72	9,553.93	-492.93	587.23	636.21	6.94	6.94	-0.06	
9,728.00	65.23	116.23	9,567.55	-505.34	612.15	662.31	8.51	8.39	-1.58	
9,759.00	68.90	115.96	9,579.63	-517.89	637.79	689.13	11.87	11.84	-0.87	
9,790.00	72.26	116.03	9,589.94	-530.71	664.06	716.62	10.84	10.84	0.23	
9,821.00	76.02	115.25	9,598.41	-543.60	690.94	744.71	12.37	12.13	-2.52	
9,931.00	85.90	117.42	9,615.67	-591.76	788.16	846.49	9.19	8.98	1.97	
9,962.00	87.47	116.56	9,617.47	-605.80	815.74	875.40	5.77	5.06	-2.77	
9,993.00	89.19	116.34	9,618.37	-619.61	843.48	904.45	5.59	5.55	-0.71	
10,024.00	90.42	115.00	9,618.47	-633.03	871.42	933.66	5.87	3.97	-4.32	
10,055.00	91.04	113.31	9,618.08	-645.72	899.70	963.13	5.81	2.00	-5.45	
10,086.00	91.29	111.74	9,617.45	-657.59	928.33	992.85	5.13	0.81	-5.06	
10,117.00	91.18	110.44	9,616.78	-668.74	957.25	1,022.79	4.21	-0.35	-4.19	
10,148.00	89.69	109.12	9,616.55	-679.23	986.41	1,052.91	6.42	-4.81	-4.26	
10,179.00	89.16	108.16	9,616.86	-689.14	1,015.79	1,083.16	3.54	-1.71	-3.10	
10,210.00	89.47	107.12	9,617.23	-698.53	1,045.33	1,113.53	3.50	1.00	-3.35	
10,241.00	90.28	106.55	9,617.29	-707.51	1,075.00	1,143.99	3.20	2.61	-1.84	
10,272.00	90.03	105.81	9,617.21	-716.15	1,104.77	1,174.51	2.52	-0.81	-2.39	
10,303.00	89.97	105.60	9,617.21	-724.54	1,134.61	1,205.07	0.70	-0.19	-0.68	
10,334.00	90.42	105.71	9,617.11	-732.91	1,164.46	1,235.64	1.49	1.45	0.35	
10,365.00	90.11	105.74	9,616.96	-741.31	1,194.30	1,266.21	1.00	-1.00	0.10	
10,396.00	88.81	104.75	9,617.25	-749.46	1,224.21	1,296.81	5.27	-4.19	-3.19	
10,427.00	87.73	104.37	9,618.19	-757.25	1,254.20	1,327.46	3.69	-3.48	-1.23	
10,458.00	86.60	103.88	9,619.72	-764.80	1,284.22	1,358.11	3.97	-3.65	-1.58	
10,490.00	86.93	103.32	9,621.53	-772.32	1,315.28	1,389.79	2.03	1.03	-1.75	
10,521.00	87.28	102.43	9,623.09	-779.21	1,345.46	1,420.53	3.08	1.13	-2.87	
10,552.00	87.32	102.26	9,624.55	-785.83	1,375.71	1,451.31	0.56	0.13	-0.55	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0J1	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)
10,583.00	88.84	101.90	9,625.59	-792.32	1,406.00	1,482.13	5.04	4.90	-1.16
10,614.00	89.80	101.45	9,625.96	-798.59	1,436.36	1,512.98	3.42	3.10	-1.45
10,645.00	89.60	101.37	9,626.12	-804.72	1,466.75	1,543.84	0.69	-0.65	-0.26
10,676.00	89.80	101.05	9,626.29	-810.75	1,497.15	1,574.72	1.22	0.65	-1.03
10,707.00	90.00	100.89	9,626.34	-816.65	1,527.59	1,605.60	0.83	0.65	-0.52
10,738.00	90.03	100.42	9,626.33	-822.38	1,558.05	1,636.51	1.52	0.10	-1.52
10,800.00	89.55	99.77	9,626.56	-833.25	1,619.09	1,698.35	1.30	-0.77	-1.05
10,894.00	89.92	98.57	9,626.99	-848.23	1,711.89	1,792.22	1.34	0.39	-1.28
10,986.00	87.81	97.05	9,628.82	-860.73	1,803.01	1,884.15	2.83	-2.29	-1.65
11,080.00	86.64	95.69	9,633.37	-871.14	1,896.31	1,978.03	1.91	-1.24	-1.45
11,173.00	86.21	94.07	9,639.17	-879.04	1,988.79	2,070.83	1.80	-0.46	-1.74
11,265.00	88.26	92.52	9,643.60	-884.32	2,080.53	2,162.60	2.79	2.23	-1.68
11,358.00	88.91	90.13	9,645.90	-886.47	2,173.47	2,255.25	2.66	0.70	-2.57
11,451.00	86.86	90.12	9,649.33	-886.67	2,266.40	2,347.68	2.20	-2.20	-0.01
11,545.00	87.59	88.50	9,653.88	-885.54	2,360.28	2,440.90	1.89	0.78	-1.72
11,638.00	88.49	88.62	9,657.07	-883.21	2,453.19	2,533.05	0.98	0.97	0.13
11,732.00	87.48	88.21	9,660.37	-880.61	2,547.10	2,626.15	1.16	-1.07	-0.44
11,824.00	88.15	88.38	9,663.88	-877.87	2,638.99	2,717.23	0.75	0.73	0.18
11,917.00	89.30	88.03	9,665.95	-874.96	2,731.92	2,809.33	1.29	1.24	-0.38
12,011.00	88.15	88.38	9,668.04	-872.02	2,825.85	2,902.41	1.28	-1.22	0.37
12,104.00	89.05	88.01	9,670.31	-869.09	2,918.77	2,994.50	1.05	0.97	-0.40
12,197.00	89.72	88.35	9,671.31	-866.13	3,011.72	3,086.61	0.81	0.72	0.37
12,290.00	87.76	87.97	9,673.35	-863.15	3,104.64	3,178.70	2.15	-2.11	-0.41
12,382.00	88.46	87.95	9,676.39	-859.88	3,196.54	3,269.72	0.76	0.76	-0.02
12,476.00	87.34	88.12	9,679.83	-856.65	3,290.42	3,362.73	1.21	-1.19	0.18
12,570.00	89.44	90.15	9,682.47	-855.24	3,384.36	3,455.99	3.11	2.23	2.16
12,662.00	90.00	90.46	9,682.92	-855.73	3,476.35	3,547.52	0.70	0.61	0.34
12,756.00	87.31	89.84	9,685.13	-855.97	3,570.32	3,640.98	2.94	-2.86	-0.66
12,850.00	90.84	91.02	9,686.65	-856.68	3,664.29	3,734.49	3.96	3.76	1.26
12,942.00	88.10	90.12	9,687.50	-857.59	3,756.27	3,826.05	3.13	-2.98	-0.98
13,035.00	88.99	89.85	9,689.86	-857.57	3,849.24	3,918.50	1.00	0.96	-0.29
13,128.00	90.50	89.67	9,690.27	-857.18	3,942.23	4,010.93	1.64	1.62	-0.19
13,220.00	87.98	89.25	9,691.49	-856.31	4,034.21	4,102.29	2.78	-2.74	-0.46
13,313.00	89.83	89.80	9,693.27	-855.54	4,127.19	4,194.66	2.08	1.99	0.59
13,406.00	91.34	89.76	9,692.32	-855.19	4,220.18	4,287.09	1.62	1.62	-0.04
13,499.00	90.64	89.78	9,690.71	-854.81	4,313.17	4,379.51	0.75	-0.75	0.02
13,592.00	91.12	89.22	9,689.29	-854.00	4,406.15	4,471.89	0.79	0.52	-0.60
13,654.00	89.38	87.88	9,689.02	-852.43	4,468.13	4,533.35	3.54	-2.81	-2.16
13,684.00	89.44	87.29	9,689.32	-851.17	4,498.10	4,563.01	1.98	0.20	-1.97
13,716.00	88.49	86.01	9,689.90	-849.30	4,530.04	4,594.58	4.98	-2.97	-4.00
13,747.00	90.00	85.01	9,690.31	-846.87	4,560.94	4,625.04	5.84	4.87	-3.23
13,777.00	89.13	84.23	9,690.54	-844.06	4,590.81	4,654.44	3.89	-2.90	-2.60
13,805.00	87.70	83.71	9,691.31	-841.12	4,618.64	4,681.81	5.43	-5.11	-1.86
13,870.00	89.02	84.62	9,693.17	-834.51	4,683.27	4,745.38	2.47	2.03	1.40

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0J1	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 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)
13,901.00	88.99	85.97	9,693.71	-831.97	4,714.16	4,775.82	4.36	-0.10	4.35
13,932.00	90.90	87.70	9,693.74	-830.26	4,745.11	4,806.42	8.31	6.16	5.58
13,963.00	90.03	88.53	9,693.49	-829.24	4,776.10	4,837.12	3.88	-2.81	2.68
13,995.00	89.10	89.18	9,693.73	-828.60	4,808.09	4,868.86	3.55	-2.91	2.03
14,026.00	90.31	89.68	9,693.89	-828.29	4,839.09	4,899.65	4.22	3.90	1.61
14,055.00	90.20	89.16	9,693.76	-828.00	4,868.08	4,928.45	1.83	-0.38	-1.79
14,086.00	88.42	89.02	9,694.14	-827.51	4,899.08	4,959.22	5.76	-5.74	-0.45
14,117.00	88.12	89.69	9,695.07	-827.16	4,930.06	4,989.99	2.37	-0.97	2.16
14,149.00	87.73	90.40	9,696.23	-827.18	4,962.04	5,021.79	2.53	-1.22	2.22
14,179.00	85.67	90.88	9,697.96	-827.52	4,991.98	5,051.60	7.05	-6.87	1.60
14,210.00	84.64	91.49	9,700.58	-828.16	5,022.87	5,082.38	3.86	-3.32	1.97
14,241.00	85.57	91.97	9,703.22	-829.09	5,053.74	5,113.18	3.37	3.00	1.55
14,273.00	85.93	92.52	9,705.59	-830.34	5,085.63	5,145.02	2.05	1.13	1.72
14,304.00	85.96	92.84	9,707.79	-831.79	5,116.52	5,175.88	1.03	0.10	1.03
14,335.00	86.13	92.90	9,709.92	-833.33	5,147.40	5,206.76	0.58	0.55	0.19
14,429.00	86.69	92.81	9,715.81	-838.01	5,241.10	5,300.43	0.60	0.60	-0.10
14,522.00	87.70	92.78	9,720.36	-842.54	5,333.88	5,393.16	1.09	1.09	-0.03
14,614.00	87.76	92.71	9,724.00	-846.94	5,425.70	5,484.93	0.10	0.07	-0.08
14,707.00	88.94	92.81	9,726.68	-851.41	5,518.55	5,577.74	1.27	1.27	0.11
14,800.00	88.96	92.70	9,728.39	-855.88	5,611.43	5,670.56	0.12	0.02	-0.12
14,893.00	88.52	92.55	9,730.43	-860.14	5,704.31	5,763.37	0.50	-0.47	-0.16
14,985.00	88.34	92.66	9,732.95	-864.32	5,796.18	5,855.16	0.23	-0.20	0.12
15,079.00	88.40	91.43	9,735.63	-867.67	5,890.08	5,948.89	1.31	0.06	-1.31
15,171.00	87.59	90.02	9,738.85	-868.84	5,982.01	6,040.43	1.77	-0.88	-1.53
15,264.00	88.18	90.15	9,742.28	-868.98	6,074.95	6,132.86	0.65	0.63	0.14
15,357.00	88.52	90.42	9,744.96	-869.44	6,167.91	6,225.34	0.47	0.37	0.29
15,451.00	88.15	90.47	9,747.69	-870.17	6,261.87	6,318.84	0.40	-0.39	0.05
15,544.00	89.61	90.80	9,749.50	-871.20	6,354.84	6,411.40	1.61	1.57	0.35
15,637.00	90.08	90.90	9,749.76	-872.58	6,447.83	6,504.01	0.52	0.51	0.11
15,730.00	89.33	90.65	9,750.23	-873.84	6,540.82	6,596.61	0.85	-0.81	-0.27
15,823.00	87.53	89.19	9,752.78	-873.71	6,633.78	6,689.03	2.49	-1.94	-1.57
15,917.00	88.38	89.86	9,756.14	-872.93	6,727.71	6,782.35	1.15	0.90	0.71
16,009.00	89.10	90.58	9,758.16	-873.28	6,819.69	6,873.85	1.11	0.78	0.78
16,102.00	88.63	90.21	9,760.00	-873.92	6,912.67	6,966.37	0.64	-0.51	-0.40
16,195.00	89.08	90.36	9,761.86	-874.39	7,005.65	7,058.88	0.51	0.48	0.16
16,288.00	88.85	89.87	9,763.54	-874.57	7,098.63	7,151.36	0.58	-0.25	-0.53
16,381.00	88.01	89.78	9,766.09	-874.29	7,191.60	7,243.76	0.91	-0.90	-0.10
16,474.00	88.85	89.95	9,768.64	-874.07	7,284.56	7,336.18	0.92	0.90	0.18
16,566.00	88.85	89.49	9,770.48	-873.62	7,376.54	7,427.59	0.50	0.00	-0.50
16,660.00	90.22	90.53	9,771.25	-873.64	7,470.53	7,521.06	1.83	1.46	1.11
16,753.00	88.10	89.41	9,772.61	-873.59	7,563.52	7,613.51	2.58	-2.28	-1.20
16,846.00	87.48	88.76	9,776.20	-872.10	7,656.44	7,705.75	0.97	-0.67	-0.70
16,940.00	90.34	92.17	9,777.98	-872.87	7,750.39	7,799.25	4.73	3.04	3.63

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 1H
Project:	Eddy Co., NM (NAD 83)	TVD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Site:	Queen 23-24 W0J1	MD Reference:	RKB=28' @ 3008.00usft (Patterson 564)
Well:	Fed Com 1H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.14 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
17,033.00	87.48	90.00	9,779.75	-874.63	7,843.34	7,891.87	3.86	-3.08	-2.33	
17,126.00	90.42	90.30	9,781.46	-874.87	7,936.32	7,984.34	3.18	3.16	0.32	
17,218.00	88.63	89.76	9,782.22	-874.92	8,028.31	8,075.82	2.03	-1.95	-0.59	
17,312.00	88.85	90.16	9,784.29	-874.86	8,122.29	8,169.26	0.49	0.23	0.43	
17,405.00	89.10	89.93	9,785.95	-874.93	8,215.27	8,261.73	0.37	0.27	-0.25	
17,434.00	88.23	89.66	9,786.63	-874.82	8,244.26	8,290.55	3.14	-3.00	-0.93	
Last MWD Survey @ 17434'										
17,472.00	88.23	89.66	9,787.80	-874.60	8,282.24	8,328.29	0.00	0.00	0.00	
Projection to Bit										

Survey Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
492.00	491.91	5.86	0.68	First MWD Survey	
17,434.00	9,786.63	-874.82	8,244.26	Last MWD Survey @ 17434'	
17,472.00	9,787.80	-874.60	8,282.24	Projection to Bit	

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------

Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Queen 23-24 W04J
 Well: Fed Com 1H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.201993
 Long: -104.059933
 GL: 2980.00
 KB: RKB=28' @ 3008.00usft (Patterson 564)



Azimuths to Grid North
 True North: -0.15°
 Magnetic North: 6.90°
 Magnetic Field
 Strength: 47869.9uT
 Dip Angle: 59.92°
 Date: 08/05/2019
 Model: HDGM

WELL DETAILS: Fed Com 1H

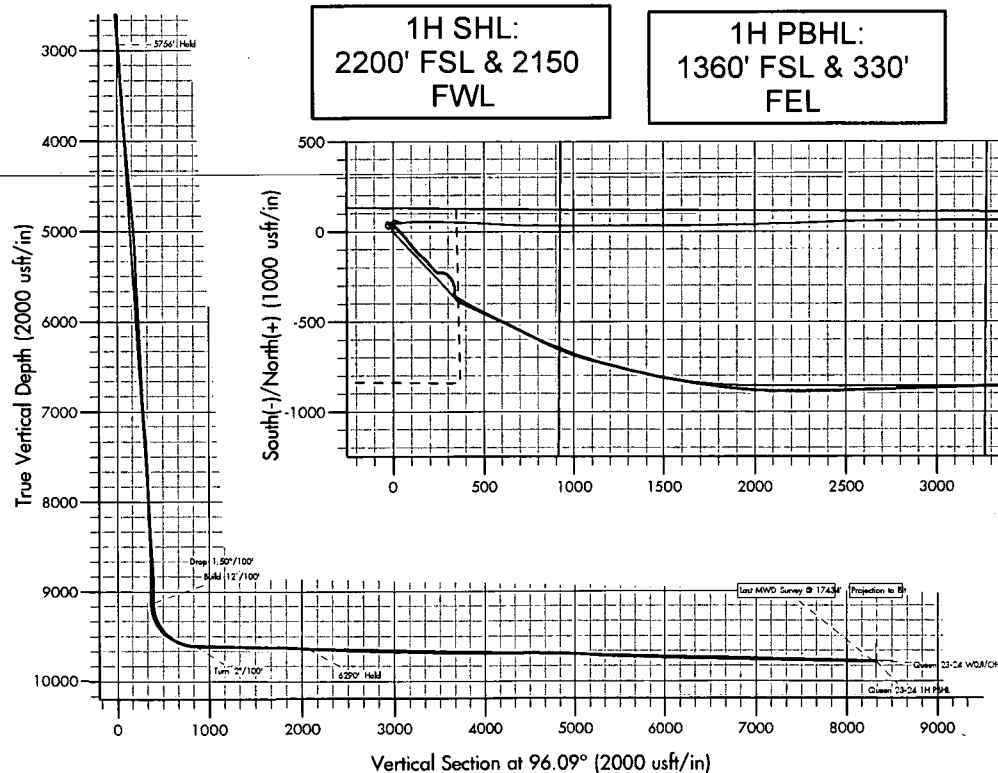
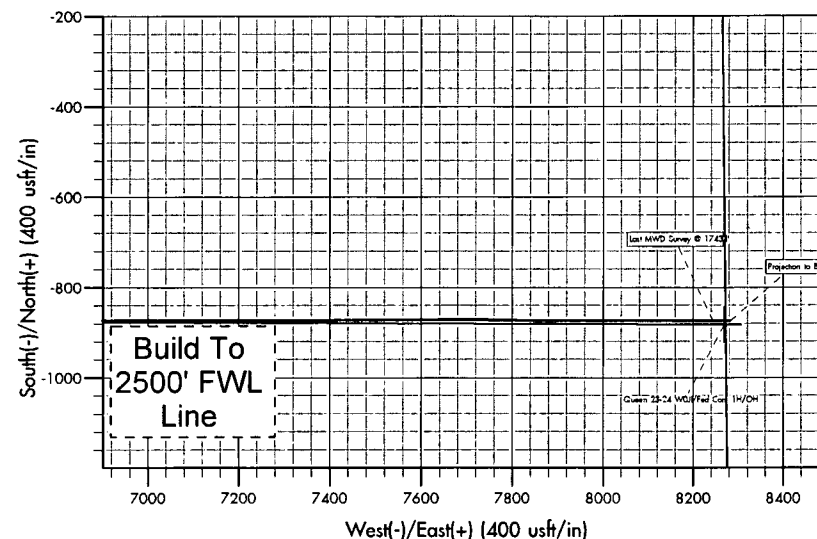
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	437326.80	625902.20	32.201993	-104.059933

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Queen 23-24 1H PBHL	9778.00	-882.90	8268.40	436443.90	634170.60	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	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	Build 1.50°/100'
2933.34	5.00	137.29	2932.92	-10.68	9.86	1.50	137.29	10.94	5756' Hold
8689.41	5.00	137.29	8667.08	-379.32	350.14	0.00	0.00	388.44	Drop 1.50°/100'
9022.75	0.00	0.00	9000.00	-390.00	360.00	1.50	180.00	399.37	126' Hold
9148.42	0.00	0.00	9125.67	-390.00	360.00	0.00	0.00	399.37	Build 12°/100'
9887.34	88.67	115.00	9603.01	-587.10	782.69	12.00	115.00	840.60	Turn 2°/100'
11124.44	88.67	90.25	9632.16	-855.33	1980.18	2.00	-90.29	2059.80	6290' Hold
17414.41	88.67	90.25	9778.00	-882.90	8268.40	0.00	0.00	8315.40	TD at 17414.41



N/S
 Hardlines
 2329' FSL
 & 330'
 FSL

E/W
 Hardlines
 330' FEL
 Sec. 24
 2350' FEL
 Sec. 23

Plan: Plan #1 (Fed Com 1H/OH)

Created By: Marcus Spurgin Date: 6/24 September 16 2019