

RECEIVED

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
DISTRICT IV - ARTESIA O.C.D.

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 30-015-46090	² Pool Code 98220	³ Pool Name Purple Sage; Wolfcamp (Gas)
⁴ Property Code 325749	⁵ Property Name QUEEN 23/24 W/O JI FEDERAL COM	
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 2981'

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
K	23	24S	28E		2250	SOUTH	2150	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	24	24S	28E		2320	SOUTH	316	EAST	EDDY

¹² Dedicated Acres 480	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.

⑧ S 89°11'37" E 2758.27' ⑨ S 89°12'55" E 2757.12' ⑩ N 89°40'59" W 2634.62' ⑪ N 89°39'37" W 2631.26' ⑫

16

GEODETIC DATA
NAD 83 GRID - NM EAST

SURFACE LOCATION
N 437376.7 - E 625901.1
LAT: 32.2021302° N
LONG: 104.0599360° W

BOTTOM HOLE
N 437283.6 - E 634158.8
LAT: 32.2018136° N
LONG: 104.0332397° W

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.

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

CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1942"
N 435150.7 - E 623799.8
B: FOUND BRASS CAP "1942"
N 440506.4 - E 623685.1
C: FOUND BRASS CAP "1942"
N 440467.6 - E 626442.5
D: FOUND BRASS CAP "1942"
N 440429.9 - E 629198.7

E: FOUND BRASS CAP "1942"
N 440415.3 - E 631832.7
F: FOUND BRASS CAP "1942"
N 440399.7 - E 634463.4
G: FOUND BRASS CAP "1942"
N 437741.9 - E 634482.3
H: FOUND BRASS CAP "1942"
N 435083.7 - E 634519.6
I: FOUND BRASS CAP "1942"
N 435093.5 - E 629159.5

Job No.: LS1803363R

RECEIVED

NOV 14 2019

DISTRICT/ARTESIAO.C.D.

Intent ☐ As Drilled ☒API #
30-015-46090

Operator Name: Mewbourne Oil Company	Property Name: Queen 23/24 W0JI Fed Com	Well Number #2H
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Kick Off Point (KOP)

UL K	Section 23	Township 24S	Range 24E	Lot	Feet 2234	From N/S S	Feet 2135	From E/W W	County Edley
Latitude 32.2020923					Longitude -104.0597785			NAD 83	

First Take Point (FTP)

UL J	Section 23	Township 24S	Range 24E	Lot	Feet 2234	From N/S S	Feet 2306	From E/W E	County Edley
Latitude 32.2020568					Longitude -104.0568024			NAD 83	

Last Take Point (LTP)

UL I	Section 24	Township 24S	Range 24E	Lot	Feet 1320	From N/S S	Feet 361	From E/W E	County Edley
Latitude 32.2021471					Longitude -104.0333831			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: Mewbourne Oil Co	Property Name: Queen 23/24 W008 Fed Com	Well Number 1H
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KZ 06/29/2018



Mewbourne Oil Company

Patterson 564

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

Queen 23-24 W0JI Fed Com 2H (AEP19179)

2019-08-08 to 2019-08-27

Eddy, New Mexico, US (32.20, -104.06)

Job Type
Directional



MEWBOURNE
OIL COMPANY

Mewbourne Oil Company

Eddy Co., NM (NAD 83)

Queen 23-24 W0J1

Fed Com 2H

OH

Design: OH

Standard Survey Report

29 August, 2019



L T I T U D E
ENERGY PARTNERS

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 2H
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 2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

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

Site	Queen 23-24 W0J1	
Site Position:		Northing:
From:	Map	Easting:
Position Uncertainty:	0.00 usft	Slot Radius:
		Latitude:
		Longitude:
		Grid Convergence:

Well		Fed Com 2H				
Well Position	+N/-S	0.00 usft	Northing:	437,376.70 usft	Latitude:	32.202130
	+E/-W	0.00 usft	Easting:	625,901.10 usft	Longitude:	-104.059936
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	2,980.00 usft

Wellbore				OH	
Magnetics					
Model Name		Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
HDGM		08/05/19	7.05	59.92	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)	+E/-W (usft)
		Direction (°)	
	0.00	0.00	0.00
			89.95

Survey Program		Date	08/29/19	
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	17,671.00	MWD Survey (OH)	MWD	OWSG MWD - Standard

Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.62	205.90	100.00	-0.49	-0.24	-0.24	0.62	0.62	0.00
First MWD Survey									
200.00	0.41	175.20	199.99	-1.33	-0.44	-0.44	0.34	-0.21	-30.70
299.00	0.92	184.29	298.99	-2.48	-0.47	-0.47	0.52	0.52	9.18
494.00	0.95	196.01	493.96	-5.59	-1.04	-1.04	0.10	0.02	6.01
676.00	1.07	253.64	675.94	-7.52	-3.08	-3.09	0.54	0.07	31.66
862.00	1.12	287.10	861.91	-7.47	-6.49	-6.49	0.34	0.03	17.99
1,048.00	1.24	14.48	1,047.88	-4.99	-7.72	-7.72	0.88	0.06	46.98
1,233.00	1.73	45.35	1,232.82	-1.09	-5.23	-5.23	0.50	0.26	16.69
1,419.00	1.82	43.28	1,418.73	3.03	-1.21	-1.21	0.06	0.05	-1.11

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 2H
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 2H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,606.00	1.64	51.43	1,605.64	6.86	2.92	2.92	0.16	-0.10	4.36
1,792.00	1.23	44.08	1,791.59	9.96	6.39	6.40	0.24	-0.22	-3.95
1,981.00	3.26	87.93	1,980.44	11.61	13.17	13.18	1.33	1.07	23.20
2,168.00	3.53	111.03	2,167.12	9.73	23.86	23.87	0.74	0.14	12.35
2,354.00	4.50	128.08	2,352.67	3.18	34.95	34.95	0.82	0.52	9.17
2,508.00	2.18	119.51	2,506.40	-1.99	42.25	42.25	1.54	-1.51	-5.56
2,639.00	1.67	103.95	2,637.33	-3.68	46.27	46.27	0.55	-0.39	-11.88
2,826.00	1.45	304.43	2,824.30	-3.00	46.97	46.96	1.64	-0.12	-85.30
3,013.00	1.65	313.08	3,011.23	0.18	43.05	43.05	0.16	0.11	4.63
3,199.00	1.57	311.08	3,197.16	3.68	39.17	39.17	0.05	-0.04	-1.08
3,384.00	2.71	261.15	3,382.04	4.68	32.94	32.94	1.12	0.62	-26.99
3,570.00	2.46	260.64	3,567.85	3.35	24.66	24.66	0.13	-0.13	-0.27
3,756.00	2.65	264.35	3,753.67	2.28	16.44	16.44	0.14	0.10	1.99
3,942.00	2.72	263.97	3,939.46	1.39	7.77	7.77	0.04	0.04	-0.20
4,128.00	1.35	272.94	4,125.34	1.04	1.19	1.19	0.75	-0.74	4.82
4,314.00	1.40	268.38	4,311.29	1.09	-3.27	-3.27	0.06	0.03	-2.45
4,500.00	1.43	268.27	4,497.23	0.95	-7.86	-7.86	0.02	0.02	-0.06
4,686.00	1.61	263.76	4,683.17	0.60	-12.78	-12.77	0.12	0.10	-2.42
4,872.00	1.47	248.18	4,869.10	-0.57	-17.59	-17.59	0.24	-0.08	-8.38
5,059.00	1.43	245.25	5,056.04	-2.44	-21.93	-21.94	0.05	-0.02	-1.57
5,245.00	0.90	347.55	5,242.01	-1.99	-24.36	-24.36	0.99	-0.28	55.00
5,431.00	0.89	327.04	5,427.99	0.65	-25.46	-25.46	0.17	-0.01	-11.03
5,618.00	0.62	322.20	5,614.98	2.67	-26.87	-26.86	0.15	-0.14	-2.59
5,805.00	0.29	278.08	5,801.97	3.54	-27.96	-27.95	0.25	-0.18	-23.59
5,992.00	0.61	226.95	5,988.96	2.92	-29.15	-29.15	0.26	0.17	-27.34
6,178.00	0.94	225.02	6,174.95	1.17	-30.95	-30.95	0.18	0.18	-1.04
6,364.00	0.86	189.09	6,360.93	-1.29	-32.25	-32.26	0.30	-0.04	-19.32
6,550.00	0.95	187.00	6,546.90	-4.20	-32.66	-32.67	0.05	0.05	-1.12
6,737.00	0.14	181.37	6,733.89	-5.96	-32.86	-32.86	0.43	-0.43	-3.01
6,923.00	0.30	111.57	6,919.89	-6.37	-32.41	-32.42	0.15	0.09	-37.53
7,108.00	0.31	238.91	7,104.89	-6.81	-32.39	-32.39	0.30	0.01	68.83
7,294.00	0.82	246.35	7,290.88	-7.60	-34.04	-34.04	0.28	0.27	4.00
7,480.00	1.46	221.50	7,476.84	-9.91	-36.83	-36.84	0.43	0.34	-13.36
7,666.00	2.66	166.11	7,662.74	-15.87	-37.36	-37.38	1.18	0.65	-29.78
7,852.00	2.87	145.56	7,848.52	-23.90	-33.69	-33.71	0.54	0.11	-11.05
8,039.00	2.00	115.63	8,035.36	-29.18	-28.10	-28.13	0.81	-0.47	-16.01
8,226.00	1.69	128.74	8,222.26	-32.31	-23.01	-23.04	0.28	-0.17	7.01
8,411.00	1.36	179.51	8,407.21	-36.22	-20.86	-20.89	0.72	-0.18	27.44
8,597.00	2.97	12.27	8,593.14	-33.71	-19.82	-19.85	2.32	0.87	-89.91
8,784.00	2.13	20.77	8,779.96	-25.73	-17.56	-17.58	0.49	-0.45	4.55
8,971.00	1.31	7.13	8,966.87	-20.36	-16.06	-16.08	0.49	-0.44	-7.29
9,064.00	1.31	355.71	9,059.85	-18.24	-16.01	-16.02	0.28	0.00	-12.28
9,104.00	1.40	8.25	9,099.84	-17.31	-15.97	-15.99	0.77	0.23	31.35

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 2H
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 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)	
9,135.00	3.39	42.74	9,130.81	-16.26	-15.29	-15.31	7.65	6.42	111.26	
9,166.00	6.84	59.21	9,161.68	-14.64	-13.09	-13.10	11.98	11.13	53.13	
9,197.00	11.29	68.43	9,192.29	-12.58	-8.68	-8.69	15.06	14.35	29.74	
9,228.00	16.01	72.12	9,222.41	-10.15	-1.78	-1.79	15.48	15.23	11.90	
9,259.00	20.26	75.13	9,251.86	-7.46	7.48	7.47	14.03	13.71	9.71	
9,290.00	24.30	79.19	9,280.54	-4.88	18.94	18.93	13.94	13.03	13.10	
9,322.00	28.70	82.85	9,309.17	-2.69	33.04	33.03	14.66	13.75	11.44	
9,353.00	33.23	84.34	9,335.75	-0.92	48.88	48.88	14.82	14.61	4.81	
9,384.00	35.84	85.83	9,361.28	0.57	66.39	66.39	8.85	8.42	4.81	
9,415.00	38.84	87.66	9,385.93	1.63	85.16	85.16	10.32	9.68	5.90	
9,446.00	42.26	88.24	9,409.48	2.35	105.30	105.30	11.10	11.03	1.87	
9,477.00	46.00	88.97	9,431.73	2.87	126.87	126.87	12.18	12.06	2.35	
9,508.00	48.69	89.51	9,452.73	3.17	149.67	149.67	8.77	8.68	1.74	
9,539.00	50.55	90.44	9,472.81	3.18	173.28	173.28	6.42	6.00	3.00	
9,570.00	53.59	90.85	9,491.87	2.90	197.73	197.73	9.86	9.81	1.32	
9,601.00	57.47	90.48	9,509.41	2.61	223.28	223.28	12.55	12.52	-1.19	
9,632.00	61.17	90.52	9,525.22	2.37	249.93	249.94	11.94	11.94	0.13	
9,662.00	64.39	90.51	9,538.94	2.13	276.61	276.61	10.73	10.73	-0.03	
9,693.00	67.36	90.34	9,551.61	1.92	304.89	304.90	9.59	9.58	-0.55	
9,725.00	69.56	90.10	9,563.36	1.81	334.66	334.66	6.91	6.88	-0.75	
9,755.00	71.40	90.42	9,573.39	1.68	362.93	362.93	6.22	6.13	1.07	
9,787.00	74.40	91.14	9,582.79	1.26	393.51	393.51	9.62	9.38	2.25	
9,818.00	79.36	92.31	9,589.83	0.35	423.68	423.68	16.42	16.00	3.77	
9,830.00	82.21	92.78	9,591.75	-0.17	435.51	435.51	24.06	23.75	3.92	
9,930.00	87.99	95.52	9,600.29	-7.39	534.83	534.82	6.39	5.78	2.74	
10,022.00	89.80	91.50	9,602.06	-13.02	626.62	626.61	4.79	1.97	-4.37	
10,115.00	88.86	91.19	9,603.15	-15.20	719.59	719.57	1.06	-1.01	-0.33	
10,208.00	88.71	89.77	9,605.12	-15.98	812.56	812.54	1.54	-0.16	-1.53	
<u>10,301.00</u>	89.80	90.32	9,606.33	<u>-16.06</u>	<u>905.55</u>	905.53	1.31	1.17	0.59	
10,395.00	88.29	90.27	9,607.90	-16.54	999.53	999.52	1.61	-1.61	-0.05	
10,488.00	89.58	90.09	9,609.63	-16.83	1,092.51	1,092.50	1.40	1.39	-0.19	
10,581.00	88.80	90.28	9,610.94	-17.13	1,185.50	1,185.49	0.86	-0.84	0.20	
10,675.00	88.15	90.28	9,613.44	-17.59	1,279.47	1,279.45	0.69	-0.69	0.00	
10,768.00	89.75	89.81	9,615.15	-17.66	1,372.45	1,372.43	1.79	1.72	-0.51	
10,861.00	87.06	89.40	9,617.74	-17.02	1,465.40	1,465.39	2.93	-2.89	-0.44	
10,953.00	91.49	89.88	9,618.90	-16.45	1,557.37	1,557.35	4.84	4.82	0.52	
11,047.00	92.80	89.74	9,615.38	-16.13	1,651.30	1,651.29	1.40	1.39	-0.15	
11,140.00	92.92	89.79	9,610.74	-15.75	1,744.18	1,744.17	0.14	0.13	0.05	
11,233.00	90.70	89.53	9,607.81	-15.20	1,837.13	1,837.12	2.40	-2.39	-0.28	
11,264.00	89.86	89.19	9,607.65	-14.85	1,868.13	1,868.11	2.92	-2.71	-1.10	
11,295.00	88.50	88.47	9,608.10	-14.22	1,899.12	1,899.10	4.96	-4.39	-2.32	
11,326.00	87.65	88.19	9,609.14	-13.32	1,930.09	1,930.07	2.89	-2.74	-0.90	
11,357.00	87.92	87.83	9,610.34	-12.24	1,961.04	1,961.03	1.45	0.87	-1.16	

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 2H
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 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)
11,418.00	88.24	88.22	9,612.38	-10.14	2,021.97	2,021.96	0.83	0.52	0.64
11,481.00	87.45	88.51	9,614.75	-8.35	2,084.90	2,084.90	1.34	-1.25	0.46
11,512.00	86.72	88.21	9,616.33	-7.46	2,115.85	2,115.84	2.55	-2.35	-0.97
11,543.00	86.09	87.80	9,618.27	-6.38	2,146.77	2,146.76	2.42	-2.03	-1.32
11,605.00	86.52	87.66	9,622.27	-3.93	2,208.59	2,208.59	0.73	0.69	-0.23
11,699.00	86.41	87.97	9,628.06	-0.36	2,302.35	2,302.34	0.35	-0.12	0.33
11,791.00	86.19	88.00	9,634.00	2.87	2,394.10	2,394.10	0.24	-0.24	0.03
11,885.00	86.27	88.11	9,640.18	6.06	2,487.84	2,487.84	0.14	0.09	0.12
11,978.00	87.39	88.41	9,645.32	8.88	2,580.65	2,580.66	1.25	1.20	0.32
12,071.00	86.58	88.95	9,650.21	11.02	2,673.50	2,673.51	1.05	-0.87	0.58
12,164.00	89.24	89.92	9,653.60	11.93	2,766.42	2,766.43	3.04	2.86	1.04
12,257.00	88.43	90.00	9,655.50	12.00	2,859.40	2,859.41	0.88	-0.87	0.09
12,349.00	88.37	90.11	9,658.06	11.91	2,951.37	2,951.38	0.14	-0.07	0.12
12,443.00	87.90	90.20	9,661.12	11.65	3,045.32	3,045.33	0.51	-0.50	0.10
12,537.00	88.99	90.11	9,663.67	11.40	3,139.28	3,139.29	1.16	1.16	-0.10
12,629.00	89.27	90.74	9,665.07	10.72	3,231.27	3,231.27	0.75	0.30	0.68
12,723.00	89.10	89.79	9,666.41	10.28	3,325.25	3,325.26	1.03	-0.18	-1.01
12,817.00	89.16	90.18	9,667.84	10.31	3,419.24	3,419.25	0.42	0.06	0.41
12,910.00	89.44	90.05	9,668.97	10.12	3,512.24	3,512.24	0.33	0.30	-0.14
13,003.00	88.40	90.03	9,670.72	10.06	3,605.22	3,605.23	1.12	-1.12	-0.02
13,095.00	88.57	90.01	9,673.16	10.02	3,697.19	3,697.19	0.19	0.18	-0.02
13,188.00	88.77	90.14	9,675.32	9.90	3,790.16	3,790.17	0.26	0.22	0.14
13,281.00	88.99	90.19	9,677.13	9.63	3,883.14	3,883.15	0.24	0.24	0.05
13,373.00	88.96	89.90	9,678.78	9.56	3,975.13	3,975.13	0.32	-0.03	-0.32
13,467.00	89.27	90.13	9,680.23	9.54	4,069.12	4,069.12	0.41	0.33	0.24
13,559.00	87.20	89.76	9,683.06	9.62	4,161.07	4,161.07	2.29	-2.25	-0.40
13,652.00	87.81	90.12	9,687.11	9.72	4,253.98	4,253.99	0.76	0.66	0.39
13,745.00	88.09	90.24	9,690.44	9.43	4,346.92	4,346.93	0.33	0.30	0.13
13,838.00	87.95	90.10	9,693.65	9.15	4,439.86	4,439.87	0.21	-0.15	-0.15
13,931.00	88.26	89.71	9,696.73	9.31	4,532.81	4,532.82	0.54	0.33	-0.42
14,024.00	87.45	90.19	9,700.21	9.39	4,625.75	4,625.75	1.01	-0.87	0.52
14,118.00	90.22	89.39	9,702.12	9.73	4,719.72	4,719.72	3.07	2.95	-0.85
14,210.00	86.16	89.33	9,705.03	10.76	4,811.64	4,811.65	4.41	-4.41	-0.07
14,304.00	87.17	89.38	9,710.49	11.82	4,905.48	4,905.49	1.08	1.07	0.05
14,398.00	86.50	89.36	9,715.68	12.85	4,999.33	4,999.34	0.71	-0.71	-0.02
14,491.00	86.75	89.86	9,721.16	13.48	5,092.16	5,092.17	0.60	0.27	0.54
14,583.00	86.83	91.46	9,726.31	12.42	5,184.01	5,184.02	1.74	0.09	1.74
14,676.00	88.82	91.57	9,729.84	9.97	5,276.91	5,276.91	2.14	2.14	0.12
14,769.00	90.45	92.47	9,730.43	6.69	5,369.84	5,369.85	2.00	1.75	0.97
14,862.00	90.67	92.73	9,729.52	2.47	5,462.74	5,462.74	0.37	0.24	0.28
14,954.00	87.95	92.21	9,730.63	-1.49	5,554.64	5,554.64	3.01	-2.96	-0.57
15,048.00	89.89	90.70	9,732.40	-3.88	5,648.59	5,648.58	2.62	2.06	-1.61
15,140.00	89.80	90.67	9,732.65	-4.98	5,740.58	5,740.57	0.10	-0.10	-0.03
15,233.00	88.15	90.01	9,734.32	-5.53	5,833.56	5,833.55	1.91	-1.77	-0.71

Company:	Mewbourne Oil Company	Local Co-ordinate Reference:	Well Fed Com 2H
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 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)
15,326.00	89.69	90.32	9,736.07	-5.80	5,926.54	5,926.53	1.69	1.66	0.33
15,420.00	89.75	90.39	9,736.53	-6.38	6,020.54	6,020.53	0.10	0.06	0.07
15,513.00	88.57	89.86	9,737.89	-6.59	6,113.53	6,113.52	1.39	-1.27	-0.57
15,606.00	89.05	90.45	9,739.82	-6.84	6,206.50	6,206.50	0.82	0.52	0.63
15,699.00	88.08	90.98	9,742.15	-8.00	6,299.47	6,299.46	1.19	-1.04	0.57
15,792.00	89.13	90.10	9,744.42	-8.87	6,392.43	6,392.42	1.47	1.13	-0.95
15,886.00	89.33	88.80	9,745.68	-7.97	6,486.42	6,486.41	1.40	0.21	-1.38
15,978.00	88.88	88.39	9,747.12	-5.72	6,578.38	6,578.37	0.66	-0.49	-0.45
16,072.00	88.94	88.64	9,748.90	-3.28	6,672.33	6,672.32	0.27	0.06	0.27
16,164.00	89.19	88.42	9,750.41	-0.92	6,764.29	6,764.28	0.36	0.27	-0.24
16,257.00	88.60	88.44	9,752.20	1.63	6,857.23	6,857.23	0.63	-0.63	0.02
16,350.00	87.59	88.48	9,755.29	4.13	6,950.15	6,950.15	1.09	-1.09	0.04
16,443.00	88.24	88.77	9,758.67	6.36	7,043.06	7,043.06	0.77	0.70	0.31
16,535.00	88.07	88.85	9,761.64	8.27	7,134.99	7,135.00	0.20	-0.18	0.09
16,629.00	87.56	88.83	9,765.22	10.17	7,228.90	7,228.91	0.54	-0.54	-0.02
16,722.00	87.84	88.79	9,768.95	12.10	7,321.81	7,321.82	0.30	0.30	-0.04
16,815.00	89.80	89.28	9,770.87	13.66	7,414.77	7,414.78	2.17	2.11	0.53
16,909.00	88.07	89.10	9,772.61	14.99	7,508.74	7,508.75	1.85	-1.84	-0.19
17,002.00	87.17	88.79	9,776.48	16.70	7,601.64	7,601.66	1.02	-0.97	-0.33
17,095.00	88.18	88.97	9,780.25	18.52	7,694.55	7,694.56	1.10	1.09	0.19
17,188.00	90.90	89.71	9,781.00	19.59	7,787.53	7,787.54	3.03	2.92	0.80
17,281.00	89.02	88.98	9,781.06	20.65	7,880.52	7,880.53	2.17	-2.02	-0.78
17,375.00	90.98	89.18	9,781.06	22.16	7,974.50	7,974.52	2.10	2.09	0.21
17,469.00	91.46	89.14	9,779.06	23.54	8,068.47	8,068.49	0.51	0.51	-0.04
17,564.00	91.63	88.54	9,776.50	25.46	8,163.42	8,163.44	0.66	0.18	-0.63
17,632.00	91.96	88.16	9,774.37	27.42	8,231.36	8,231.38	0.74	0.49	-0.56
Last MWD Survey @ 17632'									
17,671.00	91.96	88.16	9,773.03	28.67	8,270.31	8,270.33	0.00	0.00	0.00
PTB @ 17671'									

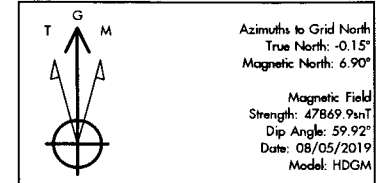
Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
100.00	100.00	-0.49	-0.24	First MWD Survey
17,632.00	9,774.37	27.42	8,231.36	Last MWD Survey @ 17632'
17,671.00	9,773.03	28.67	8,270.31	PTB @ 17671'

Checked By: _____	Approved By: _____	Date: _____
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Plan #1



Project: Eddy Co., NM (NAD 83)
 Site: Queen 23-24 W011
 Well: Fed Com 2H
 Wellbore: OH
 Design: Plan #1
 Lat: 32.202130
 Long: -104.059936
 GL: 2980.00
 KB: RKB=28' @ 3008.00usft (Patterson 564)



WELL DETAILS: Fed Com 2H

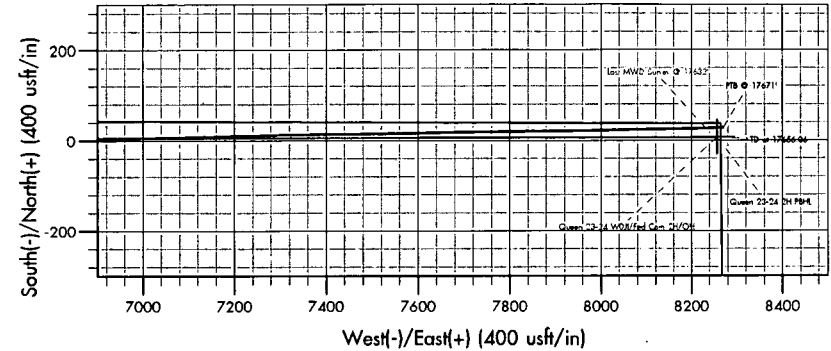
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	437376.70	625901.10	32.202130	-104.059936

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
T1	9698.00	3.76	4501.20	437380.46	630402.30	Point
T2	9715.00	4.18	5001.07	437380.88	630902.17	Point
T3	9727.00	4.60	5500.94	437381.30	631402.04	Point
Queen 23-24 2H PBHL	9778.00	6.90	8256.30	437383.60	631157.40	Rectangle (Sides: 10.00 W/10.00)

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	
9125.25	0.00	0.00	9125.25	0.00	0.00	0.00	0.00	0.00	Build 12°/100'
9864.50	88.71	89.95	9602.59	0.39	466.72	12.00	89.95	466.72	7792° Hold
17656.06	88.71	89.95	9778.00	6.90	8256.30	0.00	0.00	8256.30	TD at 17656.06



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

N/S
 Hardlines
 2329' FSL
 & 330'
 FSL

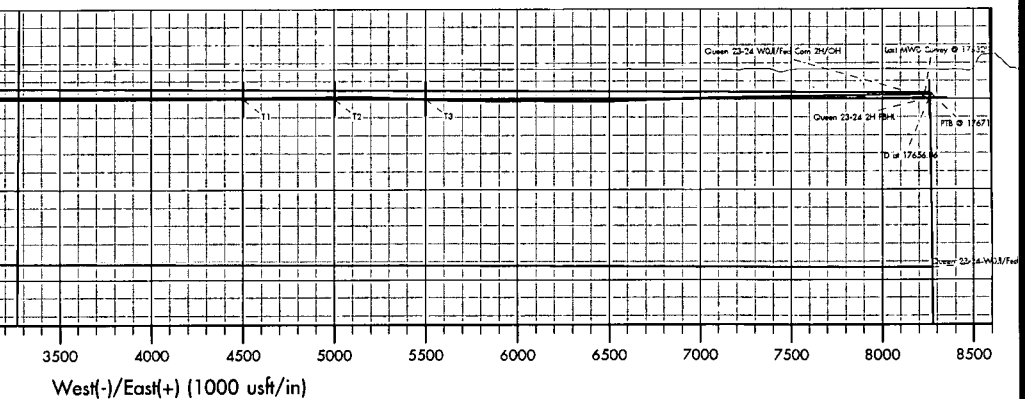
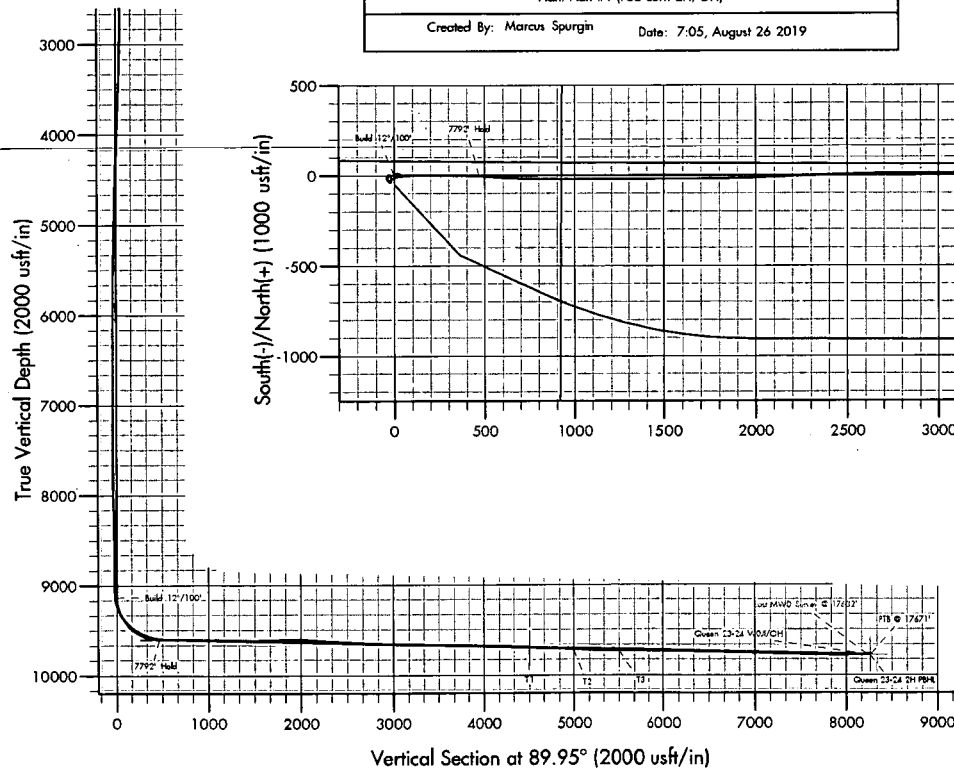
2H SHL:
 2250' FSL & 2150
 FWL

2H PBHL:
 2300' FSL & 330'
 FEL

Plan: Plan #1 (Fed Com 2H/OH)

Created By: Marcus Spurgin

Date: 7:05, August 26 2019



Red Dashes = 5' A/B Window

