Received by OCD: 5/21/2021 8:19:36 AM

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

Sundry Print Report

05/21/2021

Well Name: FULLER 14/23 W2JO FED	**Well Location:** T26S / R29E / SEC 14 / SENE / 32.0420085 / -103.9468573	**County or Parish/State:** EDDY / NM
Well Number: 2H	**Type of Well:** CONVENTIONAL GAS WELL	**Allottee or Tribe Name:**
Lease Number: NMNM 11038, NMNM11038	**Unit or CA Name:**	**Unit or CA Number:**
US Well Number: 3001544452	**Well Status:** Approved Application for Permit to Drill	**Operator:** MEWBOURNE OIL COMPANY

Notice of Intent

Type of Submission: Notice of Intent

Type of Action Other

Date Sundry Submitted: 05/06/2021

Time Sundry Submitted: 02:21

Date proposed operation will begin: 05/05/2021

Procedure Description: Mewbourne Oil Company request approval to make the following changes to the approved APD: Change well name from Fuller 14/23 W1IP Fed #3H to Fuller 14/23 W2JO Fed #2H Change casing and cement design as detailed in the attachment Changed SHL from 2500' FNL & 450' FEL, Sec 14, T26S, R29E to 2650' FNL & 405' FEL, Sec 14, T26S, R29E Changed BHL from 330' FSL & 1210' FEL, Sec 14, T26S, R29E to 330' FSL & 1450' FEL, Sec 14, T26S, R29E Contact Mike Loy with any questions.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Fuller_14_23_W2JO_Federal_2H_Plat_Signed_20210505162101.pdf

Fuller_14_23_W2JO_Federal_2H_Dir_Plot_20210505162101.pdf

Fuller_14_23_W2JO_Federal_2H_Csg_Assumptions_20210505162101.doc

Fuller_14_23_W2JO_Federal_2H_Dir_Plan_20210505162100.pdf

Fuller_14_23_W2JO_Federal_2H_Add_Info_20210505162100.pdf

CONFIDENTIAL

Released to Imaging: 6/23/2021 7:43:40 AM

Well Name: FULLER 14/23 W2JO FED

Well Location: T26S / R29E / SEC 14 / SENE / 32.0420085 / -103.9468573

County or Parish/State: EDDY / NM

Well Number: 2H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM 11038, NMNM11038

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001544452

Well Status: Approved Application for Permit to Drill

Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Authorized Officer

FULLER_14_23_W2JO_FED_2H_Sundry_2160173_COA_OTA_20210520153926.pdf

Operator Certification

I certify that the foregoing is true and correct. 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 to 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 Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: BRADLEY BISHOP

Signed on: MAY 06, 2021 02:20 PM

Name: MEWBOURNE OIL COMPANY

Title: Regulatory

Street Address: PO Box 5270

City: Hobbs **State:** NM

Phone: (575) 393-5905

Email address: bbishop@mewbourne.com

Field Representative

Representative Name: Mike Loy

Street Address:

City: **State:** **Zip:**

Phone:

Email address: mloy@mewbourne.com

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 05/20/2021

Signature: Chris Walls

Released to Imaging: 6/23/2021 7:43:40 AM

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-015-44452	98220	Purple Sage; Wolfcamp (Gas)

4 Property Code	5 Property Name	6 Well Number
~~XXXXXX~~ 331064	FULLER 14/23 W2JO FEDERAL	2H

7 OGRID NO.	8 Operator Name	9 Elevation
14744	MEWBOURNE OIL COMPANY	2950'

10 Surface Location

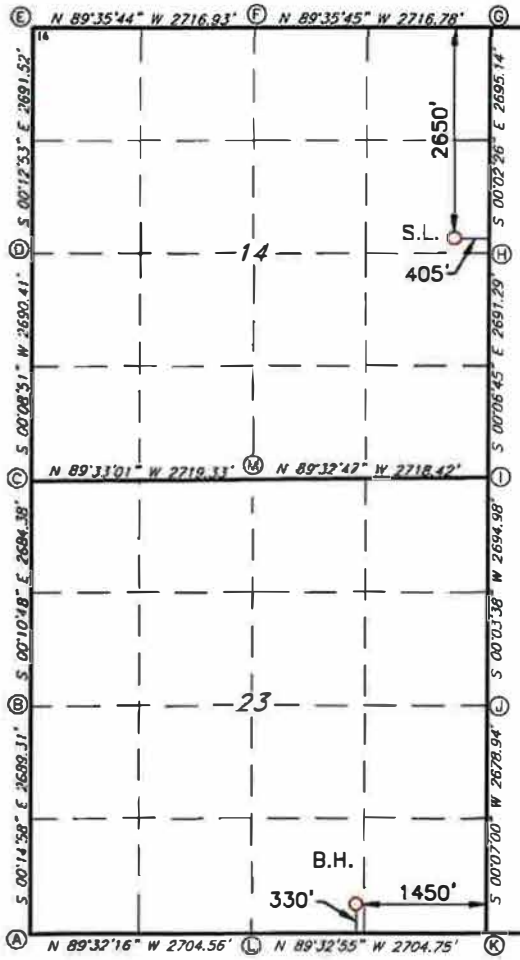
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
H	14	26S	29E		2650	NORTH	405	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	23	26S	29E		330	SOUTH	1450	EAST	EDDY

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
480			

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
N: 379235.2 – E: 661086.2
LAT: 32.0420086° N
LONG: 103.9468572° W

BOTTOM HOLE
N: 371465.7 – E: 660039.3
LAT: 32.0206608° N
LONG: 103.9503250° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1940"
N: 371167.4 – E: 656080.2

B: FOUND BRASS CAP "1940"
N: 373856.1 – E: 656058.5

C: FOUND BRASS CAP "1940"
N: 376539.9 – E: 656060.1

D: FOUND BRASS CAP "1940"
N: 379229.8 – E: 656067.0

E: FOUND BRASS CAP "1940"
N: 361920.7 – E: 656056.9

F: FOUND BRASS CAP "1940"
N: 381901.5 – E: 658773.2

G: FOUND BRASS CAP "1940"
N: 381882.4 – E: 661489.4

H: FOUND BRASS CAP "1940"
N: 379187.8 – E: 661491.3

I: FOUND BRASS CAP "1940"
N: 376497.1 – E: 661496.5

J: FOUND BRASS CAP "1940"
N: 373802.7 – E: 661493.7

K: FOUND BRASS CAP "1940"
N: 371124.3 – E: 661488.2

L: FOUND BRASS CAP "1940"
N: 371145.6 – E: 658784.1

M: FOUND BRASS CAP "1940"
N: 376518.6 – E: 658778.8

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: Mike Loy — Date: 5-5-21

Printed Name: Mike Loy

E-mail Address: mloy@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.

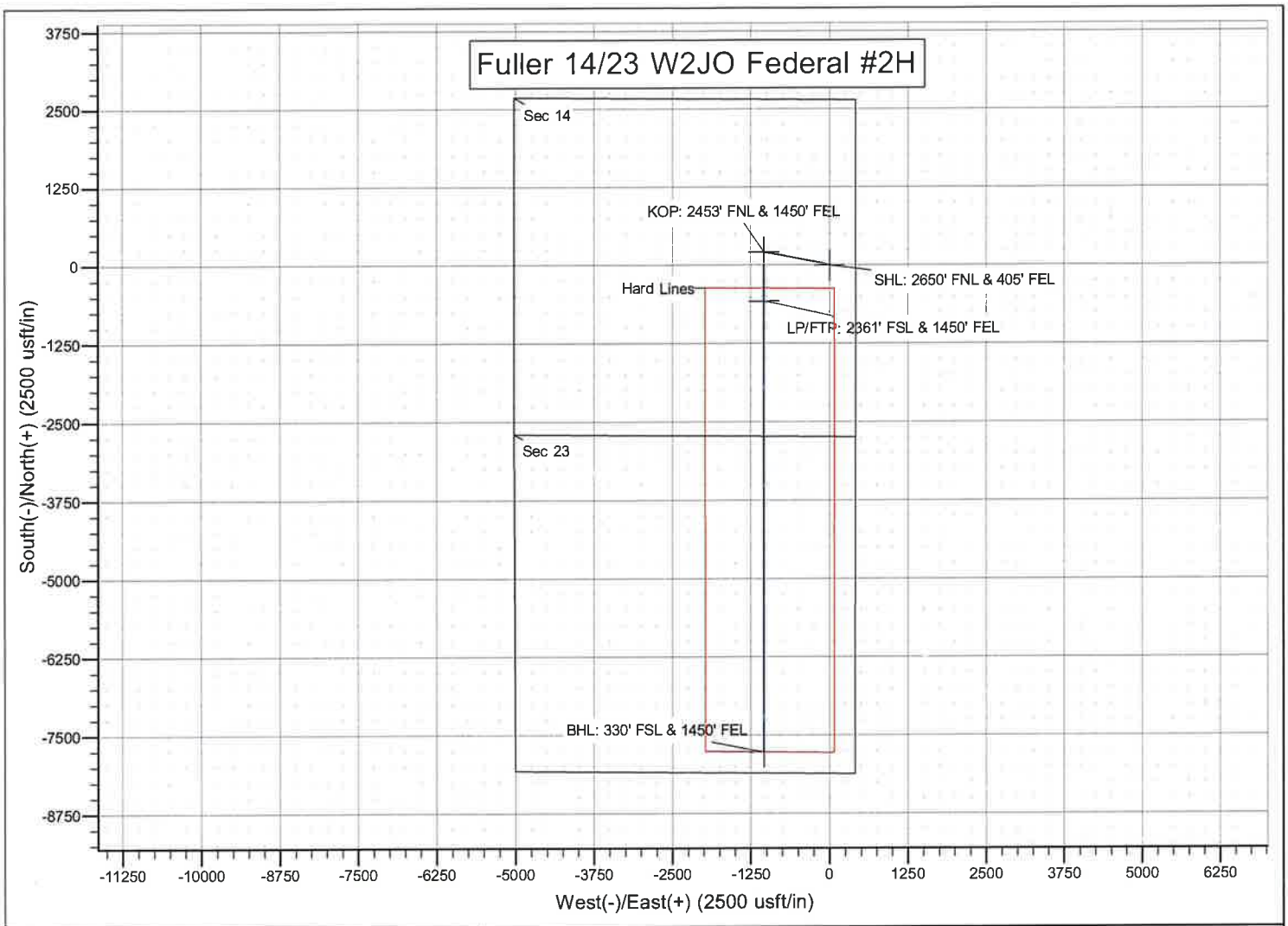
Date of Survey: 04/06/2021

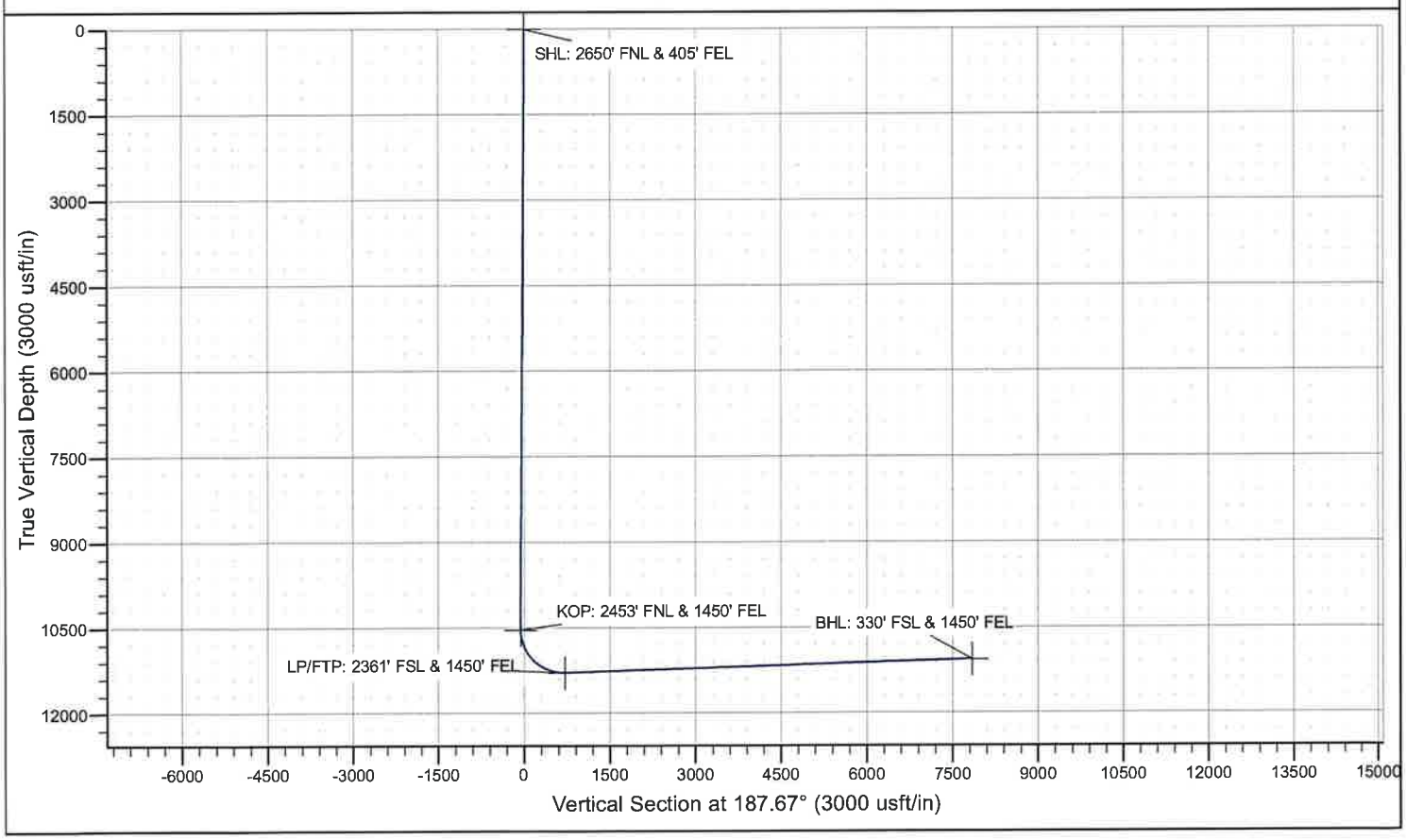
Signature and Seal of Professional Surveyor: ROBERT M. HOWETT, NEW MEXICO, 19680, PROFESSIONAL SURVEYOR

Certificate Number: 19680

REV: BH/NAME CHANGE – 04/23/21

Job No: LS21040285R


Fuller 14/23 W2JO Federal #2H
Sec 14
KOP: 2453' FNL & 1450' FEL
SHL: 2650' FNL & 405' FEL
Hard Lines
LP/FTP: 2361' FSL & 1450' FEL
Sec 23
BHL: 330' FSL & 1450' FEL
South(-)/North(+) (2500 usft/in)
West(-)/East(+) (2500 usft/in)


SHL: 2650' FNL & 405' FEL
KOP: 2453' FNL & 1450' FEL
BHL: 330' FSL & 1450' FEL
LP/FTP: 2361' FSL & 1450' FEL
True Vertical Depth (3000 usft/in)
Vertical Section at 187.67° (3000 usft/in)

Mewbourne Oil Company, Fuller 14/23 W2JO Federal #2H
Sec 14, T26S, R29E
SHL: 2650' FNL & 405' FEL, Sec 14
BHL: 330' FSL & 1450' FEL, Sec 23

Casing Program

Hole Size	Casing Interval From	Casing Interval To	Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
17.5"	0'	650'	13.375"	48	H40	STC	2.59	5.82	10.32	17.34
12.25"	0'	4160'	9.625"	40	J55	LTC	1.19	1.83	3.13	3.79
8.75"	0'	11,525'	7"	26	HCP110	LTC	1.37	1.75	2.30	2.83
6.125"	10,592'	19,000'	4.5"	13.5	P110	LTC	1.97	2.29	2.49	3.10
				BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

Mewbourne Oil Company, Fuller 14/23 W2JO Federal #2H
Sec 14, T26S, R29E
SHL: 2650' FNL & 405' FEL, Sec 14
BHL: 330' FSL & 1450' FEL, Sec 23

Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H_20 gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	305	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter 1st Stg	85	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
ECP/DV Tool @ 3030'						
Inter 2nd Stg	460	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	450	12.5	2.12	11	9	Lead: Class C + Salt + Gel + Extender + LCM
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	330	11.2	2.97	18	16	Class H + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

A copy of cement test will be available on location at time of cement job providing pump times & compressive strengths.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	3960'	25%
Liner	11,325'	25%

Mud Program

MD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	650'	Spud Mud	8.6-8.8	28-34	N/C
650'	4160'	Brine	10.0	28-34	N/C
4160'	11,525'	Cut Brine	8.6-9.7	28-34	N/C
11,525'	19,000'	OBM	10.0-12.0	30-40	<10cc

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	Pason/PVT/Visual Monitoring

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Fuller 14/23 W2JO Federal #2H
Sec 14, T26S, R29E
BHL: 330' FSL & 1450' FEL, Sec 14
BHL: 330' FSL & 1450' FEL, Sec 14

Plan: Design #1

Standard Planning Report

05 May, 2021

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	**North Reference:**	Grid
Well:	Sec 14, T26S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

Project Eddy County, New Mexico NAD 83

Map System:	US State Plane 1983	**System Datum:**	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site Fuller 14/23 W2JO Federal #2H

Site Position:		**Northing:**	379,235.20 usft	**Latitude:**	32.0420085
From:	Map	**Easting:**	661,086.20 usft	**Longitude:**	-103.9468573
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 14, T26S, R29E

Well Position	**+N/-S**	0.0 usft	**Northing:**	379,235.20 usft	**Latitude:**	32.0420085
	+E/-W	0.0 usft	**Easting:**	661,086.20 usft	**Longitude:**	-103.9468573
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	2,978.0 usft	**Ground Level:**	2,950.0 usft
Grid Convergence:		0.21 °				

Wellbore BHL: 330' FSL & 1450' FEL, Sec 14

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.31	59.87	48,090.56256874

Design Design #1

Audit Notes:				
Version:	**Phase:**	PROTOTYPE	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	187.67

Plan Survey Tool Program **Date** 5/5/2021

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,000.0	Design #1 (BHL: 330' FSL & 1450		

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
650.0	0.00	0.00	650.0	0.0	0.0	0.00	0.00	0.00	0.00	
967.2	6.34	281.08	966.5	3.4	-17.2	2.00	2.00	0.00	281.08	
10,274.1	6.34	281.08	10,216.5	201.0	-1,026.4	0.00	0.00	0.00	0.00	
10,591.3	0.00	0.01	10,533.0	204.3	-1,043.6	2.00	-2.00	0.00	180.00	KOP: 2453' FNL & 14
11,802.0	91.83	180.02	11,288.0	-575.1	-1,043.9	7.59	7.59	0.00	-179.98	
19,000.0	91.83	180.02	11,058.0	-7,769.5	-1,046.9	0.00	0.00	0.00	0.00	BHL: 330' FSL & 145(

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	**North Reference:**	Grid
Well:	Sec 14, T26S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

Planned 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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 2650' FNL & 405' FEL									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
650.0	0.00	0.00	650.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	1.00	281.08	700.0	0.1	-0.4	0.0	2.00	2.00	0.00
800.0	3.00	281.08	799.9	0.8	-3.9	-0.2	2.00	2.00	0.00
900.0	5.00	281.08	899.7	2.1	-10.7	-0.6	2.00	2.00	0.00
967.2	6.34	281.08	966.5	3.4	-17.2	-1.0	2.00	2.00	0.00
1,000.0	6.34	281.08	999.2	4.1	-20.8	-1.3	0.00	0.00	0.00
1,100.0	6.34	281.08	1,098.5	6.2	-31.6	-1.9	0.00	0.00	0.00
1,200.0	6.34	281.08	1,197.9	8.3	-42.5	-2.6	0.00	0.00	0.00
1,300.0	6.34	281.08	1,297.3	10.4	-53.3	-3.2	0.00	0.00	0.00
1,400.0	6.34	281.08	1,396.7	12.6	-64.1	-3.9	0.00	0.00	0.00
1,500.0	6.34	281.08	1,496.1	14.7	-75.0	-4.5	0.00	0.00	0.00
1,600.0	6.34	281.08	1,595.5	16.8	-85.8	-5.2	0.00	0.00	0.00
1,700.0	6.34	281.08	1,694.9	18.9	-96.7	-5.9	0.00	0.00	0.00
1,800.0	6.34	281.08	1,794.3	21.1	-107.5	-6.5	0.00	0.00	0.00
1,900.0	6.34	281.08	1,893.6	23.2	-118.4	-7.2	0.00	0.00	0.00
2,000.0	6.34	281.08	1,993.0	25.3	-129.2	-7.8	0.00	0.00	0.00
2,100.0	6.34	281.08	2,092.4	27.4	-140.0	-8.5	0.00	0.00	0.00
2,200.0	6.34	281.08	2,191.8	29.5	-150.9	-9.1	0.00	0.00	0.00
2,300.0	6.34	281.08	2,291.2	31.7	-161.7	-9.8	0.00	0.00	0.00
2,400.0	6.34	281.08	2,390.6	33.8	-172.6	-10.4	0.00	0.00	0.00
2,500.0	6.34	281.08	2,490.0	35.9	-183.4	-11.1	0.00	0.00	0.00
2,600.0	6.34	281.08	2,589.4	38.0	-194.3	-11.8	0.00	0.00	0.00
2,700.0	6.34	281.08	2,688.7	40.2	-205.1	-12.4	0.00	0.00	0.00
2,800.0	6.34	281.08	2,788.1	42.3	-215.9	-13.1	0.00	0.00	0.00
2,900.0	6.34	281.08	2,887.5	44.4	-226.8	-13.7	0.00	0.00	0.00
3,000.0	6.34	281.08	2,986.9	46.5	-237.6	-14.4	0.00	0.00	0.00
3,100.0	6.34	281.08	3,086.3	48.7	-248.5	-15.0	0.00	0.00	0.00
3,200.0	6.34	281.08	3,185.7	50.8	-259.3	-15.7	0.00	0.00	0.00
3,300.0	6.34	281.08	3,285.1	52.9	-270.2	-16.3	0.00	0.00	0.00
3,400.0	6.34	281.08	3,384.5	55.0	-281.0	-17.0	0.00	0.00	0.00
3,500.0	6.34	281.08	3,483.8	57.1	-291.8	-17.7	0.00	0.00	0.00
3,600.0	6.34	281.08	3,583.2	59.3	-302.7	-18.3	0.00	0.00	0.00
3,700.0	6.34	281.08	3,682.6	61.4	-313.5	-19.0	0.00	0.00	0.00
3,800.0	6.34	281.08	3,782.0	63.5	-324.4	-19.6	0.00	0.00	0.00
3,900.0	6.34	281.08	3,881.4	65.6	-335.2	-20.3	0.00	0.00	0.00
4,000.0	6.34	281.08	3,980.8	67.8	-346.1	-20.9	0.00	0.00	0.00
4,100.0	6.34	281.08	4,080.2	69.9	-356.9	-21.6	0.00	0.00	0.00
4,200.0	6.34	281.08	4,179.6	72.0	-367.7	-22.3	0.00	0.00	0.00
4,300.0	6.34	281.08	4,278.9	74.1	-378.6	-22.9	0.00	0.00	0.00
4,400.0	6.34	281.08	4,378.3	76.3	-389.4	-23.6	0.00	0.00	0.00
4,500.0	6.34	281.08	4,477.7	78.4	-400.3	-24.2	0.00	0.00	0.00
4,600.0	6.34	281.08	4,577.1	80.5	-411.1	-24.9	0.00	0.00	0.00
4,700.0	6.34	281.08	4,676.5	82.6	-422.0	-25.5	0.00	0.00	0.00
4,800.0	6.34	281.08	4,775.9	84.7	-432.8	-26.2	0.00	0.00	0.00
4,900.0	6.34	281.08	4,875.3	86.9	-443.6	-26.8	0.00	0.00	0.00
5,000.0	6.34	281.08	4,974.7	89.0	-454.5	-27.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	**North Reference:**	Grid
Well:	Sec 14, T26S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

Planned 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)
5,100.0	6.34	281.08	5,074.0	91.1	-465.3	-28.2	0.00	0.00	0.00
5,200.0	6.34	281.08	5,173.4	93.2	-476.2	-28.8	0.00	0.00	0.00
5,300.0	6.34	281.08	5,272.8	95.4	-487.0	-29.5	0.00	0.00	0.00
5,400.0	6.34	281.08	5,372.2	97.5	-497.9	-30.1	0.00	0.00	0.00
5,500.0	6.34	281.08	5,471.6	99.6	-508.7	-30.8	0.00	0.00	0.00
5,600.0	6.34	281.08	5,571.0	101.7	-519.6	-31.4	0.00	0.00	0.00
5,700.0	6.34	281.08	5,670.4	103.9	-530.4	-32.1	0.00	0.00	0.00
5,800.0	6.34	281.08	5,769.8	106.0	-541.2	-32.8	0.00	0.00	0.00
5,900.0	6.34	281.08	5,869.2	108.1	-552.1	-33.4	0.00	0.00	0.00
6,000.0	6.34	281.08	5,968.5	110.2	-562.9	-34.1	0.00	0.00	0.00
6,100.0	6.34	281.08	6,067.9	112.3	-573.8	-34.7	0.00	0.00	0.00
6,200.0	6.34	281.08	6,167.3	114.5	-584.6	-35.4	0.00	0.00	0.00
6,300.0	6.34	281.08	6,266.7	116.6	-595.5	-36.0	0.00	0.00	0.00
6,400.0	6.34	281.08	6,366.1	118.7	-606.3	-36.7	0.00	0.00	0.00
6,500.0	6.34	281.08	6,465.5	120.8	-617.1	-37.3	0.00	0.00	0.00
6,600.0	6.34	281.08	6,564.9	123.0	-628.0	-38.0	0.00	0.00	0.00
6,700.0	6.34	281.08	6,664.3	125.1	-638.8	-38.7	0.00	0.00	0.00
6,800.0	6.34	281.08	6,763.6	127.2	-649.7	-39.3	0.00	0.00	0.00
6,900.0	6.34	281.08	6,863.0	129.3	-660.5	-40.0	0.00	0.00	0.00
7,000.0	6.34	281.08	6,962.4	131.5	-671.4	-40.6	0.00	0.00	0.00
7,100.0	6.34	281.08	7,061.8	133.6	-682.2	-41.3	0.00	0.00	0.00
7,200.0	6.34	281.08	7,161.2	135.7	-693.0	-41.9	0.00	0.00	0.00
7,300.0	6.34	281.08	7,260.6	137.8	-703.9	-42.6	0.00	0.00	0.00
7,400.0	6.34	281.08	7,360.0	139.9	-714.7	-43.3	0.00	0.00	0.00
7,500.0	6.34	281.08	7,459.4	142.1	-725.6	-43.9	0.00	0.00	0.00
7,600.0	6.34	281.08	7,558.7	144.2	-736.4	-44.6	0.00	0.00	0.00
7,700.0	6.34	281.08	7,658.1	146.3	-747.3	-45.2	0.00	0.00	0.00
7,800.0	6.34	281.08	7,757.5	148.4	-758.1	-45.9	0.00	0.00	0.00
7,900.0	6.34	281.08	7,856.9	150.6	-768.9	-46.5	0.00	0.00	0.00
8,000.0	6.34	281.08	7,956.3	152.7	-779.8	-47.2	0.00	0.00	0.00
8,100.0	6.34	281.08	8,055.7	154.8	-790.6	-47.8	0.00	0.00	0.00
8,200.0	6.34	281.08	8,155.1	156.9	-801.5	-48.5	0.00	0.00	0.00
8,300.0	6.34	281.08	8,254.5	159.1	-812.3	-49.2	0.00	0.00	0.00
8,400.0	6.34	281.08	8,353.8	161.2	-823.2	-49.8	0.00	0.00	0.00
8,500.0	6.34	281.08	8,453.2	163.3	-834.0	-50.5	0.00	0.00	0.00
8,600.0	6.34	281.08	8,552.6	165.4	-844.8	-51.1	0.00	0.00	0.00
8,700.0	6.34	281.08	8,652.0	167.5	-855.7	-51.8	0.00	0.00	0.00
8,800.0	6.34	281.08	8,751.4	169.7	-866.5	-52.4	0.00	0.00	0.00
8,900.0	6.34	281.08	8,850.8	171.8	-877.4	-53.1	0.00	0.00	0.00
9,000.0	6.34	281.08	8,950.2	173.9	-888.2	-53.7	0.00	0.00	0.00
9,100.0	6.34	281.08	9,049.6	176.0	-899.1	-54.4	0.00	0.00	0.00
9,200.0	6.34	281.08	9,148.9	178.2	-909.9	-55.1	0.00	0.00	0.00
9,300.0	6.34	281.08	9,248.3	180.3	-920.7	-55.7	0.00	0.00	0.00
9,400.0	6.34	281.08	9,347.7	182.4	-931.6	-56.4	0.00	0.00	0.00
9,500.0	6.34	281.08	9,447.1	184.5	-942.4	-57.0	0.00	0.00	0.00
9,600.0	6.34	281.08	9,546.5	186.7	-953.3	-57.7	0.00	0.00	0.00
9,700.0	6.34	281.08	9,645.9	188.8	-964.1	-58.3	0.00	0.00	0.00
9,800.0	6.34	281.08	9,745.3	190.9	-975.0	-59.0	0.00	0.00	0.00
9,900.0	6.34	281.08	9,844.7	193.0	-985.8	-59.7	0.00	0.00	0.00
10,000.0	6.34	281.08	9,944.0	195.1	-996.6	-60.3	0.00	0.00	0.00
10,100.0	6.34	281.08	10,043.4	197.3	-1,007.5	-61.0	0.00	0.00	0.00
10,200.0	6.34	281.08	10,142.8	199.4	-1,018.3	-61.6	0.00	0.00	0.00
10,274.1	6.34	281.08	10,216.5	201.0	-1,026.4	-62.1	0.00	0.00	0.00
10,300.0	5.83	281.08	10,242.2	201.5	-1,029.1	-62.3	2.00	-2.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	**North Reference:**	Grid
Well:	Sec 14, T26S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

Planned 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)
10,400.0	3.83	281.08	10,341.9	203.1	-1,037.3	-62.8	2.00	-2.00	0.00
10,500.0	1.83	281.08	10,441.7	204.1	-1,042.2	-63.1	2.00	-2.00	0.00
10,591.3	0.00	0.01	10,533.0	204.3	-1,043.6	-63.2	2.00	-2.00	0.00
KOP: 2453' FNL & 1450' FEL									
10,600.0	0.66	180.02	10,541.7	204.3	-1,043.6	-63.1	7.59	7.59	0.00
10,650.0	4.45	180.02	10,591.7	202.1	-1,043.6	-60.9	7.59	7.59	0.00
10,700.0	8.24	180.02	10,641.3	196.5	-1,043.6	-55.4	7.59	7.59	0.00
10,750.0	12.04	180.02	10,690.6	187.7	-1,043.6	-46.7	7.59	7.59	0.00
10,800.0	15.83	180.02	10,739.1	175.7	-1,043.6	-34.8	7.59	7.59	0.00
10,850.0	19.62	180.02	10,786.7	160.5	-1,043.6	-19.7	7.59	7.59	0.00
10,900.0	23.41	180.02	10,833.2	142.1	-1,043.6	-1.5	7.59	7.59	0.00
10,950.0	27.21	180.02	10,878.4	120.8	-1,043.6	19.7	7.59	7.59	0.00
11,000.0	31.00	180.02	10,922.1	96.5	-1,043.6	43.8	7.59	7.59	0.00
11,050.0	34.79	180.02	10,964.0	69.3	-1,043.6	70.7	7.59	7.59	0.00
11,100.0	38.59	180.02	11,004.1	39.4	-1,043.6	100.3	7.59	7.59	0.00
11,150.0	42.38	180.02	11,042.2	7.0	-1,043.7	132.5	7.59	7.59	0.00
11,200.0	46.17	180.02	11,078.0	-27.9	-1,043.7	167.0	7.59	7.59	0.00
11,250.0	49.96	180.02	11,111.4	-65.1	-1,043.7	203.9	7.59	7.59	0.00
11,300.0	53.76	180.02	11,142.2	-104.4	-1,043.7	242.9	7.59	7.59	0.00
11,350.0	57.55	180.02	11,170.4	-145.7	-1,043.7	283.8	7.59	7.59	0.00
11,400.0	61.34	180.02	11,195.9	-188.8	-1,043.7	326.4	7.59	7.59	0.00
11,450.0	65.13	180.02	11,218.4	-233.4	-1,043.8	370.7	7.59	7.59	0.00
11,500.0	68.93	180.02	11,237.9	-279.4	-1,043.8	416.3	7.59	7.59	0.00
11,550.0	72.72	180.02	11,254.3	-326.6	-1,043.8	463.1	7.59	7.59	0.00
11,600.0	76.51	180.02	11,267.6	-374.8	-1,043.8	510.9	7.59	7.59	0.00
11,650.0	80.30	180.02	11,277.6	-423.8	-1,043.8	559.4	7.59	7.59	0.00
11,700.0	84.10	180.02	11,284.4	-473.3	-1,043.9	608.5	7.59	7.59	0.00
11,750.0	87.89	180.02	11,287.9	-523.2	-1,043.9	657.9	7.59	7.59	0.00
11,801.9	91.83	180.02	11,288.0	-575.1	-1,043.9	709.4	7.59	7.59	0.00
LP/FTP: 2361' FSL & 1450' FEL									
11,900.0	91.83	180.02	11,284.9	-673.1	-1,043.9	806.5	0.00	0.00	0.00
12,000.0	91.83	180.02	11,281.7	-773.1	-1,044.0	905.6	0.00	0.00	0.00
12,100.0	91.83	180.02	11,278.5	-873.0	-1,044.0	1,004.6	0.00	0.00	0.00
12,200.0	91.83	180.02	11,275.3	-973.0	-1,044.1	1,103.7	0.00	0.00	0.00
12,300.0	91.83	180.02	11,272.1	-1,072.9	-1,044.1	1,202.8	0.00	0.00	0.00
12,400.0	91.83	180.02	11,268.9	-1,172.9	-1,044.2	1,301.8	0.00	0.00	0.00
12,500.0	91.83	180.02	11,265.7	-1,272.8	-1,044.2	1,400.9	0.00	0.00	0.00
12,600.0	91.83	180.02	11,262.5	-1,372.8	-1,044.2	1,499.9	0.00	0.00	0.00
12,700.0	91.83	180.02	11,259.3	-1,472.7	-1,044.3	1,599.0	0.00	0.00	0.00
12,800.0	91.83	180.02	11,256.1	-1,572.7	-1,044.3	1,698.1	0.00	0.00	0.00
12,900.0	91.83	180.02	11,252.9	-1,672.6	-1,044.4	1,797.1	0.00	0.00	0.00
13,000.0	91.83	180.02	11,249.7	-1,772.6	-1,044.4	1,896.2	0.00	0.00	0.00
13,100.0	91.83	180.02	11,246.5	-1,872.5	-1,044.4	1,995.2	0.00	0.00	0.00
13,200.0	91.83	180.02	11,243.3	-1,972.5	-1,044.5	2,094.3	0.00	0.00	0.00
13,300.0	91.83	180.02	11,240.1	-2,072.4	-1,044.5	2,193.3	0.00	0.00	0.00
13,400.0	91.83	180.02	11,236.9	-2,172.4	-1,044.6	2,292.4	0.00	0.00	0.00
13,500.0	91.83	180.02	11,233.7	-2,272.3	-1,044.6	2,391.5	0.00	0.00	0.00
13,600.0	91.83	180.02	11,230.5	-2,372.3	-1,044.7	2,490.5	0.00	0.00	0.00
13,700.0	91.83	180.02	11,227.4	-2,472.2	-1,044.7	2,589.6	0.00	0.00	0.00
13,800.0	91.83	180.02	11,224.2	-2,572.2	-1,044.7	2,688.6	0.00	0.00	0.00
13,900.0	91.83	180.02	11,221.0	-2,672.1	-1,044.8	2,787.7	0.00	0.00	0.00
14,000.0	91.83	180.02	11,217.8	-2,772.1	-1,044.8	2,886.8	0.00	0.00	0.00
14,100.0	91.83	180.02	11,214.6	-2,872.0	-1,044.9	2,985.8	0.00	0.00	0.00
14,200.0	91.83	180.02	11,211.4	-2,972.0	-1,044.9	3,084.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	**North Reference:**	Grid
Well:	Sec 14, T26S, R29E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

Planned 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)
14,300.0	91.83	180.02	11,208.2	-3,071.9	-1,044.9	3,183.9	0.00	0.00	0.00
14,400.0	91.83	180.02	11,205.0	-3,171.9	-1,045.0	3,283.0	0.00	0.00	0.00
14,500.0	91.83	180.02	11,201.8	-3,271.8	-1,045.0	3,382.1	0.00	0.00	0.00
14,600.0	91.83	180.02	11,198.6	-3,371.8	-1,045.1	3,481.1	0.00	0.00	0.00
14,700.0	91.83	180.02	11,195.4	-3,471.7	-1,045.1	3,580.2	0.00	0.00	0.00
14,800.0	91.83	180.02	11,192.2	-3,571.7	-1,045.2	3,679.2	0.00	0.00	0.00
14,900.0	91.83	180.02	11,189.0	-3,671.6	-1,045.2	3,778.3	0.00	0.00	0.00
15,000.0	91.83	180.02	11,185.8	-3,771.6	-1,045.2	3,877.4	0.00	0.00	0.00
15,100.0	91.83	180.02	11,182.6	-3,871.5	-1,045.3	3,976.4	0.00	0.00	0.00
15,200.0	91.83	180.02	11,179.4	-3,971.5	-1,045.3	4,075.5	0.00	0.00	0.00
15,300.0	91.83	180.02	11,176.2	-4,071.4	-1,045.4	4,174.5	0.00	0.00	0.00
15,400.0	91.83	180.02	11,173.0	-4,171.4	-1,045.4	4,273.6	0.00	0.00	0.00
15,500.0	91.83	180.02	11,169.8	-4,271.3	-1,045.4	4,372.7	0.00	0.00	0.00
15,600.0	91.83	180.02	11,166.6	-4,371.2	-1,045.5	4,471.7	0.00	0.00	0.00
15,700.0	91.83	180.02	11,163.4	-4,471.2	-1,045.5	4,570.8	0.00	0.00	0.00
15,800.0	91.83	180.02	11,160.2	-4,571.1	-1,045.6	4,669.8	0.00	0.00	0.00
15,900.0	91.83	180.02	11,157.1	-4,671.1	-1,045.6	4,768.9	0.00	0.00	0.00
16,000.0	91.83	180.02	11,153.9	-4,771.0	-1,045.7	4,867.9	0.00	0.00	0.00
16,100.0	91.83	180.02	11,150.7	-4,871.0	-1,045.7	4,967.0	0.00	0.00	0.00
16,200.0	91.83	180.02	11,147.5	-4,970.9	-1,045.7	5,066.1	0.00	0.00	0.00
16,300.0	91.83	180.02	11,144.3	-5,070.9	-1,045.8	5,165.1	0.00	0.00	0.00
16,400.0	91.83	180.02	11,141.1	-5,170.8	-1,045.8	5,264.2	0.00	0.00	0.00
16,500.0	91.83	180.02	11,137.9	-5,270.8	-1,045.9	5,363.2	0.00	0.00	0.00
16,600.0	91.83	180.02	11,134.7	-5,370.7	-1,045.9	5,462.3	0.00	0.00	0.00
16,700.0	91.83	180.02	11,131.5	-5,470.7	-1,045.9	5,561.4	0.00	0.00	0.00
16,800.0	91.83	180.02	11,128.3	-5,570.6	-1,046.0	5,660.4	0.00	0.00	0.00
16,900.0	91.83	180.02	11,125.1	-5,670.6	-1,046.0	5,759.5	0.00	0.00	0.00
17,000.0	91.83	180.02	11,121.9	-5,770.5	-1,046.1	5,858.5	0.00	0.00	0.00
17,100.0	91.83	180.02	11,118.7	-5,870.5	-1,046.1	5,957.6	0.00	0.00	0.00
17,200.0	91.83	180.02	11,115.5	-5,970.4	-1,046.2	6,056.7	0.00	0.00	0.00
17,300.0	91.83	180.02	11,112.3	-6,070.4	-1,046.2	6,155.7	0.00	0.00	0.00
17,400.0	91.83	180.02	11,109.1	-6,170.3	-1,046.2	6,254.8	0.00	0.00	0.00
17,500.0	91.83	180.02	11,105.9	-6,270.3	-1,046.3	6,353.8	0.00	0.00	0.00
17,600.0	91.83	180.02	11,102.7	-6,370.2	-1,046.3	6,452.9	0.00	0.00	0.00
17,700.0	91.83	180.02	11,099.5	-6,470.2	-1,046.4	6,552.0	0.00	0.00	0.00
17,800.0	91.83	180.02	11,096.3	-6,570.1	-1,046.4	6,651.0	0.00	0.00	0.00
17,900.0	91.83	180.02	11,093.1	-6,670.1	-1,046.4	6,750.1	0.00	0.00	0.00
18,000.0	91.83	180.02	11,090.0	-6,770.0	-1,046.5	6,849.1	0.00	0.00	0.00
18,100.0	91.83	180.02	11,086.8	-6,870.0	-1,046.5	6,948.2	0.00	0.00	0.00
18,200.0	91.83	180.02	11,083.6	-6,969.9	-1,046.6	7,047.3	0.00	0.00	0.00
18,300.0	91.83	180.02	11,080.4	-7,069.9	-1,046.6	7,146.3	0.00	0.00	0.00
18,400.0	91.83	180.02	11,077.2	-7,169.8	-1,046.7	7,245.4	0.00	0.00	0.00
18,500.0	91.83	180.02	11,074.0	-7,269.8	-1,046.7	7,344.4	0.00	0.00	0.00
18,600.0	91.83	180.02	11,070.8	-7,369.7	-1,046.7	7,443.5	0.00	0.00	0.00
18,700.0	91.83	180.02	11,067.6	-7,469.7	-1,046.8	7,542.6	0.00	0.00	0.00
18,800.0	91.83	180.02	11,064.4	-7,569.6	-1,046.8	7,641.6	0.00	0.00	0.00
18,900.0	91.83	180.02	11,061.2	-7,669.6	-1,046.9	7,740.7	0.00	0.00	0.00
19,000.0	91.83	180.02	11,058.0	-7,769.5	-1,046.9	7,839.7	0.00	0.00	0.00
BHL: 330' FSL & 1450' FEL									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Fuller 14/23 W2JO Federal #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 2978.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 2978.0usft (Original Well Elev)
Site:	Fuller 14/23 W2JO Federal #2H	North Reference:	Grid
Well:	Sec 14, T26S, R29E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FSL & 1450' FEL, Sec 14		
Design:	Design #1		

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
SHL: 2650' FNL & 405' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	379,235.20	661,086.20	32.0420085	-103.9468573
KOP: 2453' FNL & 1450' - plan hits target center - Point	0.00	0.00	10,533.0	204.3	-1,043.6	379,439.54	660,042.62	32.0425804	-103.9502229
BHL: 330' FSL & 1450' F - plan hits target center - Point	0.00	0.00	11,058.0	-7,769.5	-1,046.9	371,465.70	660,039.30	32.0206610	-103.9503249
LP/FTP: 2361' FSL & 14 - plan hits target center - Point	0.00	0.01	11,288.0	-575.1	-1,043.9	378,660.10	660,042.30	32.0404378	-103.9502329

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Fuller 14/23 W2JO Federal	2H

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
G	14	26S	29E		2453	N	1450	E	Eddy

Latitude	Longitude	NAD
32.0425804	-103.9502229	83

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	14	26S	29E		2361	S	1450	E	Eddy

Latitude	Longitude	NAD
32.0206610	-103.9503249	83

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
J	14	26S	29E		2361	S	1450	E	Eddy

Latitude	Longitude	NAD
32.0206610	-103.9503249	83

Is this well the defining well for the Horizontal Spacing Unit? N

Is this well an infill well? Y

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

API #
30-015-45610

Operator Name:	Property Name:	Well Number
Mewbourne Oil Company	Fuller 14/23 W2KN Fed Com	1H

KZ 06/27/2018

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	**Mewbourne Oil Company**
LEASE NO.:	**NMNM11038**
WELL NAME & NO.:	FULLER 14-23 W2JO FED 2H
SURFACE HOLE FOOTAGE:	2650'/N & 405'/E
BOTTOM HOLE FOOTAGE	330'/S & 1450'/E
LOCATION:	Section 14, T.26 S., R.29 E., NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	○ Yes	◉ No	
Potash	◉ None	○ Secretary	○ R-111-P
Cave/Karst Potential	○ Low	◉ Medium	○ High
Cave/Karst Potential	○ Critical		
Variance	○ None	◉ Flex Hose	○ Other
Wellhead	○ Conventional	◉ Multibowl	○ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☐ COM	☐ Unit

All Previous COAs Still Apply.

A. CASING

Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **650** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.

    a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
    b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
    d. If cement falls back, remedial cementing will be done prior to drilling out that string.

2. The **9-5/8** inch intermediate casing shall be set at approximately **4160** feet. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  Excess cement calculates to -67%, additional cement might be required.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.

b. Second stage above DV tool:

- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

❖ In Medium Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

3. The minimum required fill of cement behind the **7** inch production casing is:

- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.
  Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

4. The minimum required fill of cement behind the **4-1/2** inch production liner is:

- Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

B. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.

    a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
    b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
    c. Manufacturer representative shall install the test plug for the initial BOP test.
    d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
    e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

OTA05192021

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1625 N. French Dr., Hobbs, NM 88240
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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

COMMENTS

Action 29056

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 29056
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 5/21/2021	5/21/2021

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CONDITIONS

Action 29056

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 29056
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	NSP is not required. Adhere to all other previous NMOCD Conditions of Approval.	5/21/2021