

Well Name: FORTY NINER RIDGE UNIT	Well Location: 32.2833941 / - 103.8628572	County or Parish/State: EDDY / NM
Well Number: 118H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM0531277, NMNM0531731	Unit or CA Name: FORTY NINER RIDGE UNIT	Unit or CA Number: NMNM70951X
US Well Number: 3001547905	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: 06/11/2021

Time Sundry Submitted: 03:55

Date proposed operation will begin: 06/11/2021

Procedure Description: Mewbourne Oil company request approval to make the following changes to the approved APD: Change BHL from 330' FNL & 440' FEL Sec 15, T23S, R30E to 20' FNL & 1000' FEL Sec 15, T23S, R30E Change casing and cement design as detailed in the attachment Change pool from Purple Sage; Wolfcamp (GAS) (98220) to Forty Niner Ridge; Bonespring (24720) Please contact Mike Loy with any questions.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Forty_Niner_Ridge_Unit_118H_Signed_C102_20210611155342.pdf

Forty_Niner_Ridge_Unit_118H_Csg_Assumptions_20210611155341.doc

Forty_Niner_Ridge_Unit_118H_Dir_Plot_20210611155340.pdf

Forty_Niner_Ridge_Unit_118H_Dir_Plan_20210611155340.pdf

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Lease Number: NMNM0531277, NMNM0531731	Unit or CA Name: FORTY NINER RIDGE UNIT	Unit or CA Number: NMNM70951X
US Well Number: 3001547905	Well Status: Approved Application for Permit to Drill	Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Specialist Review

FORTY_NINER_RIDGE_UNIT_118H_Sundry_2503112_Drilling_COA_OTA_20210624023242.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: JUN 11, 2021 03:54 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: Hobbs

State: NM

Zip: 88240

Phone: (575)263-4941

Email address: mloy@mewbourne.com

BLM Point of Contact

BLM POC Name: AJIBOLA OLABODE

BLM POC Title: Engineer

BLM POC Phone: 5752342231

BLM POC Email Address: OAJIBOLAEIT@BLM.GOV

Disposition: Approved

Disposition Date: 06/24/2021

Signature: Olabode Thomas Ajibola

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

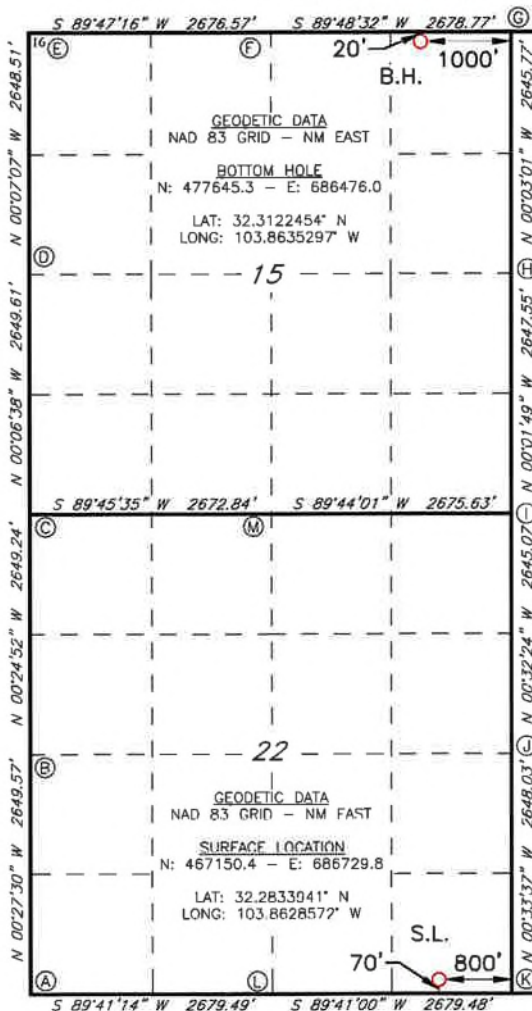
Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-47905		² Pool Code 24720		³ Pool Name Forty Niner Ridge; Bonespring	
⁴ Property Code		⁵ Property Name FORTY NINER RIDGE UNIT			⁶ Well Number 118H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3264'
¹⁰ Surface Location					
UL or lot no. P	Section 22	Township 23S	Range 30E	Lot Idn 70	Feet from the 70
		North/South line SOUTH		Feet From the 800	East/West line EAST
				County EDDY	
¹¹ Bottom Hole Location If Different From Surface					
UL or lot no. A	Section 15	Township 23S	Range 30E	Lot Idn 20	Feet from the 20
		North/South line NORTH		Feet from the 1000	East/West line EAST
				County EDDY	
¹² Dedicated Acres		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.



CORNER DATA
NAD 83 GRID - NM EAST

A: FOUND BRASS CAP "1942"
N: 467055.4 - E: 682172.6

B: FOUND BRASS CAP "1942"
N: 469704.3 - E: 682151.4

C: FOUND BRASS CAP "1942"
N: 472352.8 - E: 682132.3

D: FOUND BRASS CAP "1942"
N: 475001.9 - E: 682127.2

E: FOUND BRASS CAP "1942"
N: 477649.8 - E: 682121.7

F: FOUND BRASS CAP "1942"
N: 477659.7 - E: 684797.6

G: FOUND BRASS CAP "1942"
N: 477668.6 - E: 687475.8

H: FOUND BRASS CAP "1942"
N: 475023.4 - E: 687478.1

I: FOUND BRASS CAP "1942"
N: 472376.5 - E: 687479.5

J: FOUND BRASS CAP "1942"
N: 469732.1 - E: 687504.4

K: FOUND BRASS CAP "1942"
N: 467084.8 - E: 687530.3

L: FOUND BRASS CAP "1942"
N: 467070.0 - E: 684851.5

M: FOUND BRASS CAP "1942"
N: 472364.0 - E: 684804.5

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: **6-11-21**
Printed Name: **Mike Loy**
E-mail Address: **mloy@newbourne.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.

1-08-2019

Date of Survey

Signature and Seal of Professional Surveyor

19680

Certificate Number

REV: BH MOVE - 6/4/2021

RRC-Job No: LS19010038R2

Mewbourne Oil Company, Forty Niner Ridge Unit #118H
Sec 22, T23S, R30E
SHL: 70' FSL & 800' FEL, Sec 22
BHL: 20' FNL & 1000' FEL, Sec 15

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
17.5"	0'	425'	13.375"	48	H40	STC	3.96	8.90	15.78	26.52
12.25"	0'	3725'	9.625"	40	J55	LTC	1.33	2.04	3.49	4.23
8.75"	0'	11,236'	7"	26	HCP110	LTC	1.41	1.80	2.37	2.92
6.125"	10,485'	21,256'	4.5"	13.5	P110	LTC	1.87	2.18	2.32	2.90
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 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	Y
If yes, are the first three strings cemented to surface?	Y
Is 2 nd string set 100' to 600' below the base of salt?	Y
Is well located in high Cave/Karst?	Y
If yes, are there two strings cemented to surface?	Y
(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, Forty Niner Ridge Unit #118H
Sec 22, T23S, R30E
SHL: 70' FSL & 800' FEL, Sec 22
BHL: 20' FNL & 1000' FEL, Sec 15

Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	155	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	580	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 1 st stg	230	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 @ 3775'						
Prod 2 nd stg	440	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	440	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.

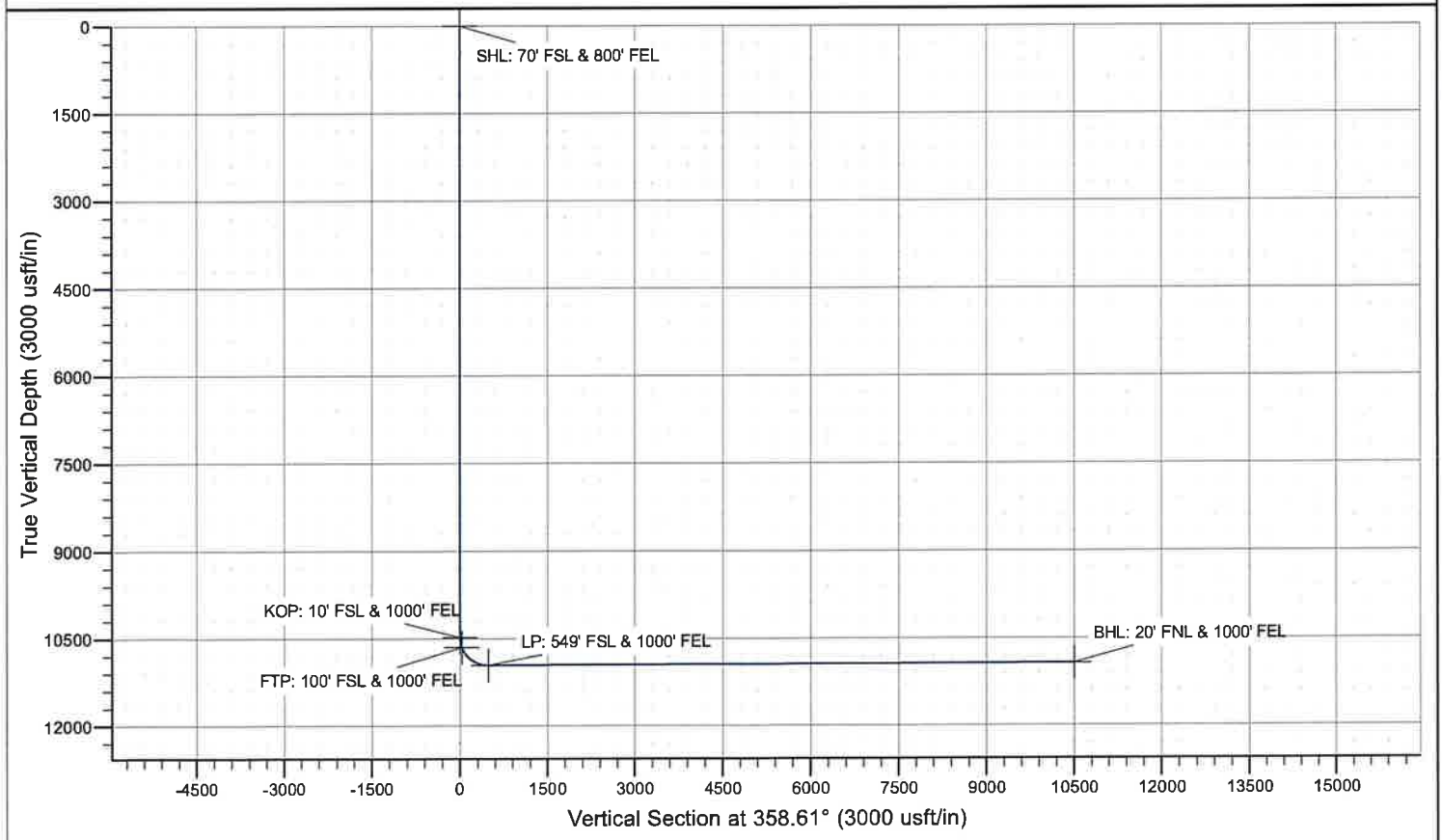
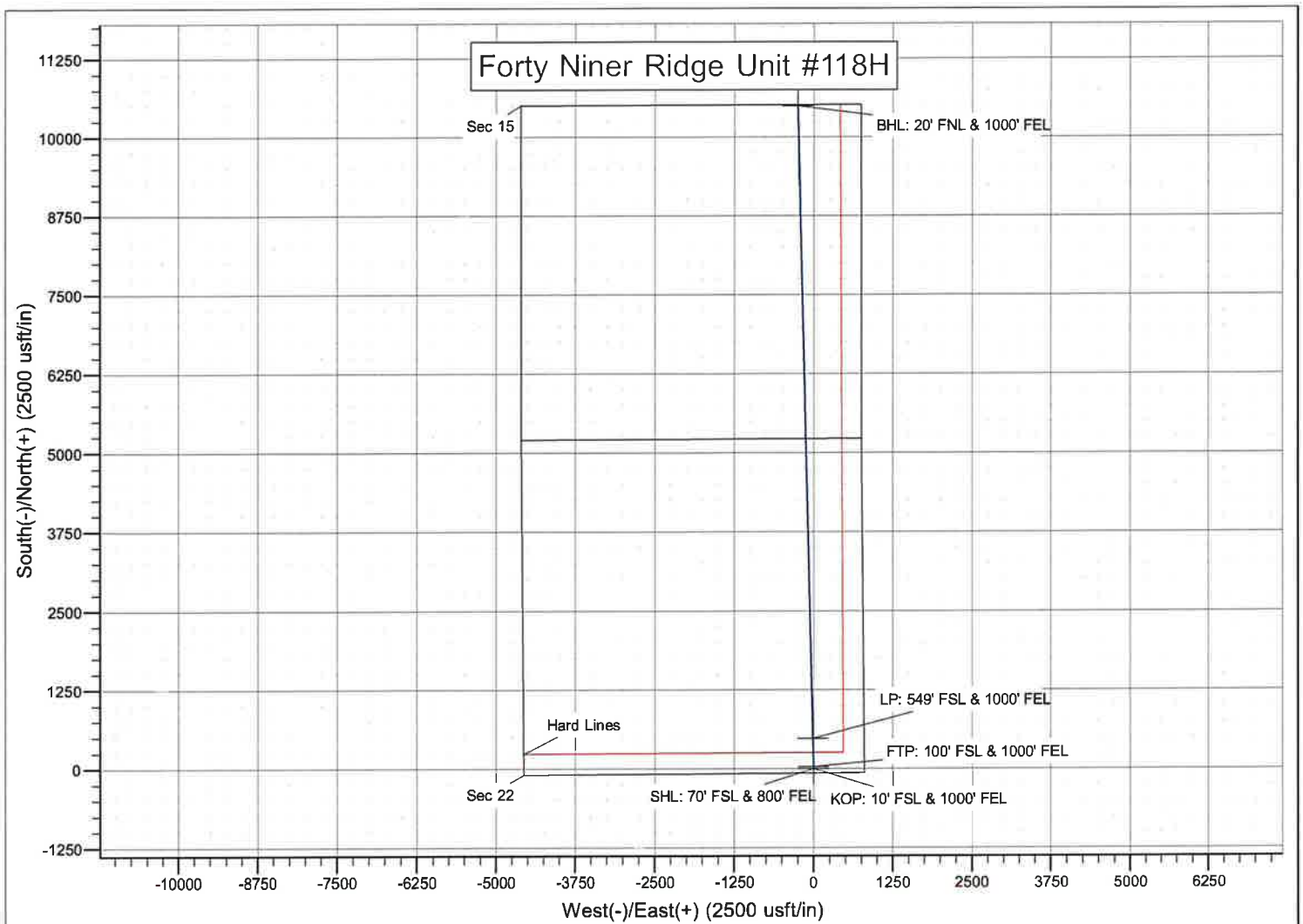
Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	0'	25%
Liner	9711'	25%

Mud Program

MD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0'	425'	Spud Mud	8.6-8.8	28-34	N/C
425'	3725'	Brine	10.0	28-34	N/C
3725'	11,236'	Cut Brine	8.6-9.7	28-34	N/C
11,236'	21,256'	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
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Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Forty Niner Ridge Unit #118H

Sec 22, T23S, R30E

SHL: 70' FSL & 800' FEL

BHL: 20' FNL & 1000' FEL

Plan: Design #1

Standard Planning Report

09 June, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #118H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3291.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3291.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #118H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1000' FEL		
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	Forty Niner Ridge Unit #118H		
Site Position:		Northing:	467,150.40 usft
From:	Map	Easting:	686,729.80 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32.2833941
		Longitude:	-103.8628573

Well	Sec 22, T23S, R30E		
Well Position	+N/-S	0.0 usft	Northing: 467,150.40 usft
	+E/-W	0.0 usft	Easting: 686,729.80 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,292.0 usft
Grid Convergence:	0.25 °	Ground Level:	3,264.0 usft

Wellbore	BHL: 20' FNL & 1000' FEL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.29	60.10	48,242.42164456

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	358.61

Plan Survey Tool Program	Date 6/9/2021			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	21,255.1	Design #1 (BHL: 20' FNL & 1000'	

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	
425.0	0.00	0.00	425.0	0.0	0.0	0.00	0.00	0.00	0.00	
425.0	0.00	0.00	425.0	0.0	0.0	2.00	0.00	0.00	0.00	
10,484.5	0.00	0.00	10,484.5	0.0	0.0	0.00	0.00	0.00	0.00	
10,484.5	0.00	0.00	10,484.5	0.0	0.0	2.00	0.00	0.00	0.00	0.00 KOP: 10' FSL & 1000'
11,236.0	90.17	358.61	10,962.0	478.8	-11.6	12.00	12.00	0.00	-1.39	
21,255.1	90.17	358.61	10,932.0	10,494.9	-253.8	0.00	0.00	0.00	0.00	0.00 BHL: 20' FNL & 1000'

Planning Report

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Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3291.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3291.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #118H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1000' FEL		
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: 70' FSL & 800' 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
425.0	0.00	0.00	425.0	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
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

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Wellbore:	BHL: 20' FNL & 1000' FEL		
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)	Bulld Rate (°/100usft)	Turn Rate (°/100usft)	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,484.5	0.00	0.00	10,484.5	0.0	0.0	0.0	0.00	0.00	0.00	

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #118H
Well: Sec 22, T23S, R30E
Wellbore: BHL: 20' FNL & 1000' FEL
Design: Design #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Site Forty Niner Ridge Unit #118H
 WELL @ 3291.0usft (Original Well Elev)
 WELL @ 3291.0usft (Original Well Elev)
 Grid
 Minimum Curvature

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)
KOP: 10' FSL & 1000' FEL									
10,500.0	1.86	358.61	10,500.0	0.3	0.0	0.3	12.00	12.00	0.00
10,525.0	4.86	358.61	10,525.0	1.7	0.0	1.7	12.00	12.00	0.00
10,550.0	7.86	358.61	10,549.8	4.5	-0.1	4.5	12.00	12.00	0.00
10,575.0	10.86	358.61	10,574.5	8.5	-0.2	8.5	12.00	12.00	0.00
10,600.0	13.86	358.61	10,598.9	13.9	-0.3	13.9	12.00	12.00	0.00
10,625.0	16.86	358.61	10,623.0	20.5	-0.5	20.5	12.00	12.00	0.00
10,650.0	19.86	358.61	10,646.7	28.4	-0.7	28.4	12.00	12.00	0.00
10,654.7	20.42	358.61	10,651.1	30.0	-0.7	30.0	12.00	12.00	0.00
FTP: 100' FSL & 1000' FEL									
10,675.0	22.86	358.61	10,670.0	37.5	-0.9	37.5	12.00	12.00	0.00
10,700.0	25.86	358.61	10,692.8	47.8	-1.2	47.8	12.00	12.00	0.00
10,725.0	28.86	358.61	10,715.0	59.3	-1.4	59.3	12.00	12.00	0.00
10,750.0	31.86	358.61	10,736.5	71.9	-1.7	71.9	12.00	12.00	0.00
10,775.0	34.86	358.61	10,757.4	85.6	-2.1	85.7	12.00	12.00	0.00
10,800.0	37.86	358.61	10,777.5	100.4	-2.4	100.5	12.00	12.00	0.00
10,825.0	40.86	358.61	10,796.9	116.3	-2.8	116.3	12.00	12.00	0.00
10,850.0	43.86	358.61	10,815.3	133.1	-3.2	133.2	12.00	12.00	0.00
10,875.0	46.86	358.61	10,832.9	150.9	-3.6	151.0	12.00	12.00	0.00
10,900.0	49.86	358.61	10,849.5	169.6	-4.1	169.6	12.00	12.00	0.00
10,925.0	52.86	358.61	10,865.1	189.1	-4.6	189.2	12.00	12.00	0.00
10,950.0	55.86	358.61	10,879.7	209.4	-5.1	209.5	12.00	12.00	0.00
10,975.0	58.86	358.61	10,893.2	230.5	-5.6	230.5	12.00	12.00	0.00
11,000.0	61.86	358.61	10,905.5	252.2	-6.1	252.2	12.00	12.00	0.00
11,025.0	64.86	358.61	10,916.8	274.5	-6.6	274.6	12.00	12.00	0.00
11,050.0	67.86	358.61	10,926.8	297.4	-7.2	297.5	12.00	12.00	0.00
11,075.0	70.86	358.61	10,935.6	320.8	-7.8	320.9	12.00	12.00	0.00
11,100.0	73.86	358.61	10,943.2	344.6	-8.3	344.7	12.00	12.00	0.00
11,125.0	76.86	358.61	10,949.5	368.8	-8.9	368.9	12.00	12.00	0.00
11,150.0	79.86	358.61	10,954.5	393.3	-9.5	393.4	12.00	12.00	0.00
11,175.0	82.86	358.61	10,958.3	418.0	-10.1	418.1	12.00	12.00	0.00
11,200.0	85.86	358.61	10,960.8	442.8	-10.7	443.0	12.00	12.00	0.00
11,225.0	88.86	358.61	10,961.9	467.8	-11.3	467.9	12.00	12.00	0.00
11,236.0	90.17	358.61	10,962.0	478.8	-11.6	478.9	11.95	11.95	0.00
LP: 549' FSL & 1000' FEL									
11,300.0	90.17	358.61	10,961.8	542.8	-13.1	542.9	0.00	0.00	0.00
11,400.0	90.17	358.61	10,961.5	642.7	-15.5	642.9	0.00	0.00	0.00
11,500.0	90.17	358.61	10,961.2	742.7	-18.0	742.9	0.00	0.00	0.00
11,600.0	90.17	358.61	10,960.9	842.7	-20.4	842.9	0.00	0.00	0.00
11,700.0	90.17	358.61	10,960.6	942.6	-22.8	942.9	0.00	0.00	0.00
11,800.0	90.17	358.61	10,960.3	1,042.6	-25.2	1,042.9	0.00	0.00	0.00
11,900.0	90.17	358.61	10,960.0	1,142.6	-27.6	1,142.9	0.00	0.00	0.00
12,000.0	90.17	358.61	10,959.7	1,242.6	-30.0	1,242.9	0.00	0.00	0.00
12,100.0	90.17	358.61	10,959.4	1,342.5	-32.5	1,342.9	0.00	0.00	0.00
12,200.0	90.17	358.61	10,959.1	1,442.5	-34.9	1,442.9	0.00	0.00	0.00
12,300.0	90.17	358.61	10,958.8	1,542.5	-37.3	1,542.9	0.00	0.00	0.00
12,400.0	90.17	358.61	10,958.5	1,642.4	-39.7	1,642.9	0.00	0.00	0.00
12,500.0	90.17	358.61	10,958.2	1,742.4	-42.1	1,742.9	0.00	0.00	0.00
12,600.0	90.17	358.61	10,957.9	1,842.4	-44.6	1,842.9	0.00	0.00	0.00
12,700.0	90.17	358.61	10,957.6	1,942.4	-47.0	1,942.9	0.00	0.00	0.00
12,800.0	90.17	358.61	10,957.3	2,042.3	-49.4	2,042.9	0.00	0.00	0.00
12,900.0	90.17	358.61	10,957.0	2,142.3	-51.8	2,142.9	0.00	0.00	0.00
13,000.0	90.17	358.61	10,956.7	2,242.3	-54.2	2,242.9	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Forty Niner Ridge Unit #118H
Well: Sec 22, T23S, R30E
Wellbore: BHL: 20' FNL & 1000' FEL
Design: Design #1

Local Co-ordinate Reference: Site Forty Niner Ridge Unit #118H
TVD Reference: WELL @ 3291.0usft (Original Well Elev)
MD Reference: WELL @ 3291.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Buidl Rate (°/100usft)	Turn Rate (°/100usft)
13,100.0	90.17	358.61	10,956.4	2,342.2	-56.6	2,342.9	0.00	0.00	0.00
13,200.0	90.17	358.61	10,956.1	2,442.2	-59.1	2,442.9	0.00	0.00	0.00
13,300.0	90.17	358.61	10,955.8	2,542.2	-61.5	2,542.9	0.00	0.00	0.00
13,400.0	90.17	358.61	10,955.5	2,642.1	-63.9	2,642.9	0.00	0.00	0.00
13,500.0	90.17	358.61	10,955.2	2,742.1	-66.3	2,742.9	0.00	0.00	0.00
13,600.0	90.17	358.61	10,954.9	2,842.1	-68.7	2,842.9	0.00	0.00	0.00
13,700.0	90.17	358.61	10,954.6	2,942.1	-71.1	2,942.9	0.00	0.00	0.00
13,800.0	90.17	358.61	10,954.3	3,042.0	-73.6	3,042.9	0.00	0.00	0.00
13,900.0	90.17	358.61	10,954.0	3,142.0	-76.0	3,142.9	0.00	0.00	0.00
14,000.0	90.17	358.61	10,953.7	3,242.0	-78.4	3,242.9	0.00	0.00	0.00
14,100.0	90.17	358.61	10,953.4	3,341.9	-80.8	3,342.9	0.00	0.00	0.00
14,200.0	90.17	358.61	10,953.1	3,441.9	-83.2	3,442.9	0.00	0.00	0.00
14,300.0	90.17	358.61	10,952.8	3,541.9	-85.7	3,542.9	0.00	0.00	0.00
14,400.0	90.17	358.61	10,952.5	3,641.8	-88.1	3,642.9	0.00	0.00	0.00
14,500.0	90.17	358.61	10,952.2	3,741.8	-90.5	3,742.9	0.00	0.00	0.00
14,600.0	90.17	358.61	10,951.9	3,841.8	-92.9	3,842.9	0.00	0.00	0.00
14,700.0	90.17	358.61	10,951.6	3,941.8	-95.3	3,942.9	0.00	0.00	0.00
14,800.0	90.17	358.61	10,951.3	4,041.7	-97.7	4,042.9	0.00	0.00	0.00
14,900.0	90.17	358.61	10,951.0	4,141.7	-100.2	4,142.9	0.00	0.00	0.00
15,000.0	90.17	358.61	10,950.7	4,241.7	-102.6	4,242.9	0.00	0.00	0.00
15,100.0	90.17	358.61	10,950.4	4,341.6	-105.0	4,342.9	0.00	0.00	0.00
15,200.0	90.17	358.61	10,950.1	4,441.6	-107.4	4,442.9	0.00	0.00	0.00
15,300.0	90.17	358.61	10,949.8	4,541.6	-109.8	4,542.9	0.00	0.00	0.00
15,400.0	90.17	358.61	10,949.5	4,641.6	-112.2	4,642.9	0.00	0.00	0.00
15,500.0	90.17	358.61	10,949.2	4,741.5	-114.7	4,742.9	0.00	0.00	0.00
15,600.0	90.17	358.61	10,948.9	4,841.5	-117.1	4,842.9	0.00	0.00	0.00
15,700.0	90.17	358.61	10,948.6	4,941.5	-119.5	4,942.9	0.00	0.00	0.00
15,800.0	90.17	358.61	10,948.3	5,041.4	-121.9	5,042.9	0.00	0.00	0.00
15,900.0	90.17	358.61	10,948.0	5,141.4	-124.3	5,142.9	0.00	0.00	0.00
16,000.0	90.17	358.61	10,947.7	5,241.4	-126.8	5,242.9	0.00	0.00	0.00
16,100.0	90.17	358.61	10,947.4	5,341.3	-129.2	5,342.9	0.00	0.00	0.00
16,200.0	90.17	358.61	10,947.1	5,441.3	-131.6	5,442.9	0.00	0.00	0.00
16,300.0	90.17	358.61	10,946.8	5,541.3	-134.0	5,542.9	0.00	0.00	0.00
16,400.0	90.17	358.61	10,946.5	5,641.3	-136.4	5,642.9	0.00	0.00	0.00
16,500.0	90.17	358.61	10,946.2	5,741.2	-138.8	5,742.9	0.00	0.00	0.00
16,600.0	90.17	358.61	10,945.9	5,841.2	-141.3	5,842.9	0.00	0.00	0.00
16,700.0	90.17	358.61	10,945.6	5,941.2	-143.7	5,942.9	0.00	0.00	0.00
16,800.0	90.17	358.61	10,945.3	6,041.1	-146.1	6,042.9	0.00	0.00	0.00
16,900.0	90.17	358.61	10,945.0	6,141.1	-148.5	6,142.9	0.00	0.00	0.00
17,000.0	90.17	358.61	10,944.7	6,241.1	-150.9	6,242.9	0.00	0.00	0.00
17,100.0	90.17	358.61	10,944.4	6,341.0	-153.3	6,342.9	0.00	0.00	0.00
17,200.0	90.17	358.61	10,944.1	6,441.0	-155.8	6,442.9	0.00	0.00	0.00
17,300.0	90.17	358.61	10,943.8	6,541.0	-158.2	6,542.9	0.00	0.00	0.00
17,400.0	90.17	358.61	10,943.5	6,641.0	-160.6	6,642.9	0.00	0.00	0.00
17,500.0	90.17	358.61	10,943.2	6,740.9	-163.0	6,742.9	0.00	0.00	0.00
17,600.0	90.17	358.61	10,942.9	6,840.9	-165.4	6,842.9	0.00	0.00	0.00
17,700.0	90.17	358.61	10,942.6	6,940.9	-167.9	6,942.9	0.00	0.00	0.00
17,800.0	90.17	358.61	10,942.3	7,040.8	-170.3	7,042.9	0.00	0.00	0.00
17,900.0	90.17	358.61	10,942.0	7,140.8	-172.7	7,142.9	0.00	0.00	0.00
18,000.0	90.17	358.61	10,941.7	7,240.8	-175.1	7,242.9	0.00	0.00	0.00
18,100.0	90.17	358.61	10,941.4	7,340.7	-177.5	7,342.9	0.00	0.00	0.00
18,200.0	90.17	358.61	10,941.1	7,440.7	-179.9	7,442.9	0.00	0.00	0.00
18,300.0	90.17	358.61	10,940.8	7,540.7	-182.4	7,542.9	0.00	0.00	0.00
18,400.0	90.17	358.61	10,940.5	7,640.7	-184.8	7,642.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Forty Niner Ridge Unit #118H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3291.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3291.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #118H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1000' FEL		
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)
18,500.0	90.17	358.61	10,940.2	7,740.6	-187.2	7,742.9	0.00	0.00	0.00
18,600.0	90.17	358.61	10,939.9	7,840.6	-189.6	7,842.9	0.00	0.00	0.00
18,700.0	90.17	358.61	10,939.7	7,940.6	-192.0	7,942.9	0.00	0.00	0.00
18,800.0	90.17	358.61	10,939.4	8,040.5	-194.4	8,042.9	0.00	0.00	0.00
18,900.0	90.17	358.61	10,939.1	8,140.5	-196.9	8,142.9	0.00	0.00	0.00
19,000.0	90.17	358.61	10,938.8	8,240.5	-199.3	8,242.9	0.00	0.00	0.00
19,100.0	90.17	358.61	10,938.5	8,340.5	-201.7	8,342.9	0.00	0.00	0.00
19,200.0	90.17	358.61	10,938.2	8,440.4	-204.1	8,442.9	0.00	0.00	0.00
19,300.0	90.17	358.61	10,937.9	8,540.4	-206.5	8,542.9	0.00	0.00	0.00
19,400.0	90.17	358.61	10,937.6	8,640.4	-209.0	8,642.9	0.00	0.00	0.00
19,500.0	90.17	358.61	10,937.3	8,740.3	-211.4	8,742.9	0.00	0.00	0.00
19,600.0	90.17	358.61	10,937.0	8,840.3	-213.8	8,842.9	0.00	0.00	0.00
19,700.0	90.17	358.61	10,936.7	8,940.3	-216.2	8,942.9	0.00	0.00	0.00
19,800.0	90.17	358.61	10,936.4	9,040.2	-218.6	9,042.9	0.00	0.00	0.00
19,900.0	90.17	358.61	10,936.1	9,140.2	-221.0	9,142.9	0.00	0.00	0.00
20,000.0	90.17	358.61	10,935.8	9,240.2	-223.5	9,242.9	0.00	0.00	0.00
20,100.0	90.17	358.61	10,935.5	9,340.2	-225.9	9,342.9	0.00	0.00	0.00
20,200.0	90.17	358.61	10,935.2	9,440.1	-228.3	9,442.9	0.00	0.00	0.00
20,300.0	90.17	358.61	10,934.9	9,540.1	-230.7	9,542.9	0.00	0.00	0.00
20,400.0	90.17	358.61	10,934.6	9,640.1	-233.1	9,642.9	0.00	0.00	0.00
20,500.0	90.17	358.61	10,934.3	9,740.0	-235.5	9,742.9	0.00	0.00	0.00
20,600.0	90.17	358.61	10,934.0	9,840.0	-238.0	9,842.9	0.00	0.00	0.00
20,700.0	90.17	358.61	10,933.7	9,940.0	-240.4	9,942.9	0.00	0.00	0.00
20,800.0	90.17	358.61	10,933.4	10,039.9	-242.8	10,042.9	0.00	0.00	0.00
20,900.0	90.17	358.61	10,933.1	10,139.9	-245.2	10,142.9	0.00	0.00	0.00
21,000.0	90.17	358.61	10,932.8	10,239.9	-247.6	10,242.9	0.00	0.00	0.00
21,100.0	90.17	358.61	10,932.5	10,339.9	-250.1	10,342.9	0.00	0.00	0.00
21,200.0	90.17	358.61	10,932.2	10,439.8	-252.5	10,442.9	0.00	0.00	0.00
21,255.1	90.17	358.61	10,932.0	10,494.9	-253.8	10,498.0	0.00	0.00	0.00

BHL: 20' FNL & 1000' FEL

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 70' FSL & 800' FEL - hit/miss target - Shape - Point	0.00	0.00	0.0	0.0	0.0	467,150.40	686,729.80	32.2833941	-103.8628573
KOP: 10' FSL & 1000' FE - plan hits target center - Point	0.00	0.00	10,484.5	0.0	0.0	467,150.40	686,729.80	32.2833941	-103.8628573
FTP: 100' FSL & 1000' FE - plan hits target center - Point	0.00	0.00	10,651.1	30.0	-0.7	467,180.40	686,729.07	32.2834766	-103.8628592
BHL: 20' FNL & 1000' FE - plan hits target center - Point	0.00	0.00	10,932.0	10,494.9	-253.8	477,645.30	686,476.00	32.3122454	-103.8635297
LP: 549' FSL & 1000' FE - plan hits target center - Point	0.00	0.00	10,962.0	478.8	-11.6	467,629.20	686,718.22	32.2847104	-103.8628880

Planning Report

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Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3291.0usft (Original Well Elev)
Site:	Forty Niner Ridge Unit #118H	North Reference:	Grid
Well:	Sec 22, T23S, R30E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 20' FNL & 1000' FEL		
Design:	Design #1		

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NMNM0531277
WELL NAME & NO.:	FORTY NINER RIDGE UNIT 118H
SURFACE HOLE FOOTAGE:	70'S & 800'E
BOTTOM HOLE FOOTAGE:	20'N & 1000'E
LOCATION:	Section 22, T.23 S., R.30 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 **425** 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 **24 hours in the Potash Area** 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 minimum required fill of cement behind the **9-5/8** inch intermediate casing which shall be set at approximately **3725** feet is:
 - 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.
 - ❖ In R111 Potash Areas if cement does not circulate to surface on the first two salt protection 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:

Option 1 (Single Stage):

- Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- **Excess cement calculates to -56%, 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, contact the appropriate BLM office.

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.

C. SPECIAL REQUIREMENT (S)

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months. (This is not necessary for secondary recovery unit wells)

OTA06232021

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

COMMENTS

Action 34095

COMMENTS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 34095
	Action Type: [C-103] NOI Change of Plans (C-103A)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 6/30/2021	6/30/2021
jagarcia	Accepted for Record	7/22/2021

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Action 34095

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Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 34095
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Adhere to previous NMOCD Conditions of Approval	6/30/2021
kpickford	If this change in plans results in the first or last take points being within 100' of the spacing unit boundary, then an administrative order for non-standard location will be required prior to placing the well on production	6/30/2021