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

Sundry Print Report

08/08/2025

Well Name: CANAL 20/19 FED COM

Well Location: T21S / R27E / SEC 20 / NENE / 32.4701552 / -104.2047139

County or Parish/State: EDDY / NM

Well Number: 714H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM0354232

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001557073

Operator: MEWBOURNE OIL COMPANY

Notice of Intent

Sundry ID: 2866423

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 07/31/2025

Time Sundry Submitted: 03:02

Date proposed operation will begin: 07/31/2025

Procedure Description: Mewbourne Oil Company requests that the following change be made to the Canal 20/19 Fed Com #714H (API 30-015-57073): • Change SHL f/ 960 FNL & 355 FEL (20) to 220 FNL & 305 FEL (20) • Change BHL f/ 2150 FNL & 100 FWL (19) to 830 FNL & 100 FWL (19) • Attached C102, Dir Plan & Plot, Drlg Program reflecting requested changes. • MOC will perform P&A and submit subsequent report for the Canal 20/19 Fed Com #714Y (30-015-56329) before beginning operations on the Canal 20/19 Fed Com #714H (30-015-57073).

NOI Attachments

Procedure Description

Canal_20_19_Fed_Com__714H_Well_Pad_20250805144315.pdf

Canal_20_19_Fed_Com_714H_MOVE_Sundry_20250731150134.pdf

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County or Parish/State: EDDY / NM

Well Number: 714H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM0354232

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001557073

Operator: MEWBOURNE OIL COMPANY

Conditions of Approval

Additional

Canal_20_19_Fed_Com_714H_MOVE_Sundry_20250806074258.pdf

CANAL_20_19_FED_COM_714H_Sundry_2866423_COA_20250806074258.pdf

Operator

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

Operator Electronic Signature: RYAN MCDANIEL

Signed on: AUG 05, 2025 02:43 PM

Name: MEWBOURNE OIL COMPANY

Title: Engineer

Street Address: 4801 BUSINESS PARK BLVD

City: HOBBS **State:** NM

Phone: (575) 393-5905

Email address: RYANMCDANIEL@MEWBOURNE.COM

Field

Representative Name:

Street Address:

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

Phone:

Email address:

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: 08/08/2025

Signature: Chris Walls

Form 3160-5
(June 2019)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2021

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE *- Other instructions on page 2*

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☐ Gas Well ☐ Other

8. Well Name and No.

2. Name of Operator

9. API Well No.

3a. Address

3b. Phone No. *(include area code)*

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*

11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*

Title

Signature

Date

THE SPACE FOR FEDERAL OR STATE OFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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.

(Instructions on page 2)

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment. If the proposal will involve **hydraulic fracturing operations**, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.
AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.
PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.
ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.
EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:
The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.
Response to this request is mandatory.
The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect ofthis form to U.S. Department ofthe Interior, Bureau ofLand Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Additional Information

Location of Well

0. SHL: NENE / 960 FNL / 355 FEL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4701552 / LONG: -104.2047139 (TVD: 0 feet, MD: 0 feet)

PPP: TR H / 2150 FNL / 100 FEL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4668773 / LONG: -104.2038908 (TVD: 8902 feet, MD: 9150 feet)

PPP: SENW / 2150 FNL / 2625 FEL / TWSP: 21S / RANGE: 27E / SECTION: 20 / LAT: 32.4667671 / LONG: -104.2121518 (TVD: 8931 feet, MD: 11477 feet)

BHL: SWNW / 2150 / 100 / TWSP: 21S / RANGE: 27E / SECTION: 19 / LAT: 32.4664635 / LONG: -104.2371602 (TVD: 8823 feet, MD: 18961 feet)

Mewbourne Oil Company

Sundry Request:

Mewbourne Oil Company requests that the following change be made to the Canal 20/19 Fed Com #714H (API 30-015-57073):

- **Change SHL f/ 960 FNL & 355 FEL (20) to 220 FNL & 305 FEL (20)**
- **Change BHL f/ 2150 FNL & 100 FWL (19) to 830 FNL & 100 FWL (19)**
- **Attached C102, Dir Plan & Plot, Drlg Program reflecting requested changes.**

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-57073	74160	CARLSBAD EAST WOLFCAMP GAS	
Property Code	Property Name		Well Number
	CANAL 20/19 FED COM		714H
OGRID No.	Operator Name		Ground Level Elevation
14744	MEWBOURNE OIL COMPANY		3219'
Surface Owner: ☐State ☑Fee ☐Tribal ☐Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☑Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		220 FNL	305 FEL	32.4721872°N	104.2045496°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	19	21S	27E		830 FNL	100 FWL	32.4700640°N	104.2371564°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1269.92	DEFINING WELL		Y	COM
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ■ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		830 FNL	10 FEL	32.4705021°N	104.2035952°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		830 FNL	100 FEL	32.4705048°N	104.2038869°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	19	21S	27E		830 FNL	100 FWL	32.4700640°N	104.2371564°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation: 3247

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and , if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Ryan McDaniel 7/29/25

Signature Date

Ryan McDaniel

Printed Name

RyanMcDaniel@Mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

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

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	07/15/2025

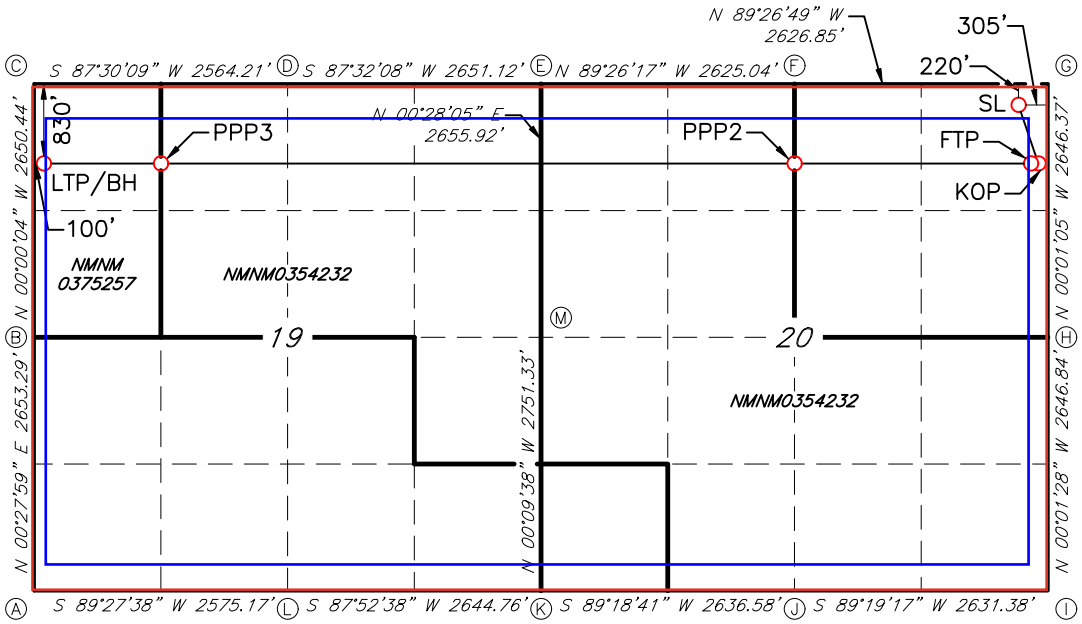
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

CANAL 20/19 FED COM #714H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
220' FNL & 305' FEL SEC.20
N: 535536.5 – E: 581053.0

LAT: 32.4721872° N
LONG: 104.2045496° W

KICK OFF POINT (KOP)
830' FNL & 10' FEL SEC.20
N: 534923.9 – E: 581348.1

LAT: 32.4705021° N
LONG: 104.2035952° W

FIRST TAKE POINT FTP (FTP)
830' FNL & 100' FEL SEC.20
N: 534924.7 – E: 581258.1

LAT: 32.4705048° N
LONG: 104.2038869° W

PROPOSED PENETRATION POINT 2 (PPP2)
897' FNL & 2627' FEL SEC.20
N: 534882.6 – E: 578731.5

LAT: 32.4703971° N
LONG: 104.2120798° W

PROPOSED PENETRATION POINT 3 (PPP3)
861' FNL & 1237' FWL SEC.19
N: 534772.5 – E: 572133.4

LAT: 32.4701132° N
LONG: 104.2334751° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
830' FNL & 100' FWL SEC.19
N: 534753.5 – E: 570998.1

LAT: 32.4700640° N
LONG: 104.2371564° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1943"
N: 530276.6 – E: 570876.7

B: FOUND BRASS CAP "1943"
N: 532929.2 – E: 570898.3

C: FOUND 1/2" IRON ROD
N: 535579.0 – E: 570898.2

D: FOUND BRASS CAP "1943"
N: 535690.7 – E: 573459.4

E: CALCULATED CORNER
N: 535804.7 – E: 576107.4

F: FOUND BRASS CAP "1943"
N: 535778.9 – E: 578731.7

G: FOUND BRASS CAP "1943"
N: 535753.6 – E: 581357.8

H: FOUND BRASS CAP "1943"
N: 533107.8 – E: 581358.6

I: FOUND BRASS CAP "1943"
N: 530461.6 – E: 581359.8

J: FOUND BRASS CAP "1943"
N: 530430.5 – E: 578729.2

K: FOUND BRASS CAP "1943"
N: 530398.8 – E: 576093.4

L: CALCULATED CORNER
N: 530300.8 – E: 573451.1

M: FOUND BRASS CAP "1943"
N: 533149.5 – E: 576085.7

JOB #: LS24020157R1

Mewbourne Oil Company, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Well Location **GL: 3219'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 220' FNL & 305' FEL (Sec 20)	Fee	NENE	20	21S	27E	Eddy	32.4721872	104.2045496	0'	0'
KOP	KOP: 830' FNL & 10' FEL (Sec 20)	Fee	SENE	20	21S	27E	Eddy	32.4705021	104.2035952	8,384'	8,426'
FTP	FTP: 830' FNL & 100' FEL (Sec 20)	Fee	SENE	20	21S	27E	Eddy	32.4705048	104.2038869	8,692'	8,752'
PPP2	PPP2: 897' FNL & 2627' FWL (Sec 20)	NMNM0354232	SENW	20	21S	27E	Eddy	32.4703971	104.2120798	8,927'	11,371'
PPP3	PPP3: 861' FNL & 1237' FWL (Sec 19)	NMNM0375257	SWNW	19	21S	27E	Eddy	32.4701132	104.2334751	8,831'	17,970'
BHL	BHL: 830' FNL & 100' FWL (Sec 19)	NMNM0375257	SWNW	19	21S	27E	Eddy	32.4700640	104.2371564	8,814'	19,106'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	2703'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	275'	Salt	None	Bell Canyon			
Salt Base	590'	Salt	None	Cherry Canyon			
Yates	740'	Sandstone	Oil/Natural Gas	Manzanita Marker			
Seven Rivers				Basal Brushy Canyon			
Queen				Bone Spring	5105'	Limestone	Oil/Natural Gas
Capitan	1090'	Limestone/Dolomite	Usable Water	1st Bone Spring	6462'	Sandstone	Oil/Natural Gas
Grayburg				2nd Bone Spring	7165'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring	8500'	Sandstone	Oil/Natural Gas
Glorietta				**Wolfcamp**	**8832'**	**Shale/Sandstone/Limestone**	**Oil/Natural Gas**

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5'	0'	0'	950'	950'	13.375" 48# H40 STC	1.53	3.43	7.06	11.86
Int	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.70	2.97	4.75	5.91
Production	8.75'	0'	0'	8426'	8270'	7" 26# P110 LTC	1.39	2.23	3.16	3.79
Liner	6.125'	8226'	8071'	19106'	8957'	4.5" 13.5# P110 LTC	1.64	1.91	2.30	2.87

All casing strings will be tested in accordance with 43 CFR Part 3172. 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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft^3/sack	TOC/BOC	Volume, ft^3	% Excess	Slurry Description
13.375 in	LEAD	350	12.5	2.12	0' - 700'	750	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	700' - 950'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	170	12.5	2.12	1065' - 1984'	370	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1984' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	130	12.5	2.12	0' - 720'	280	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	720' - 1065'	0		Class C: Retarder
1st Stg 7 in	LEAD	90	12.5	2.12	5000' - 6020'	200	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6020' - 8426'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	8226' - 19106'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	19,106'
			Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
		0
0' - 950'	10.2 - 10.4	Brine
950' - 2650'	8.4 - 8.6	Fresh Water
2650' - 8426'	9.5 - 10.2	Cut-Brine
8426' - 19106'	10 - 11.5	OBM

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, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (8426') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Canal 20/19 Fed Com #851H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	Cement Bond Log	☐	CNL/FDC
☐	Compensated Densilog	☐	Compensated Neutron Log	☐	Computer Generated Log
☐	Dip Meter Log	☑	**Directional Survey**	☐	Dual Induction/Microresistivity
☐	Dual Lateral Log/Microspherically Focused	☐	Electric Log	☐	Formation Density Compensated Log
☐	Gamma Ray Log	☑	**Measurement While Drilling**	☐	Mud Log/Geological Lithology Log
☐	Other	☐	Porosity-Resistivity Log	☐	Sidewall Neutron Log
☐	Sonic Log	☐	Spontaneous Potential Log	☐	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5356 psi
BH Temperature	165
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B as described below. BLM will be notified of elected design.

Offline Cementing Variance: Variance is request to perform offline cementing according to the attached procedure.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	26'	0'	0'	800'	800'	20" 94# J55 LTC	1.23	4.97	9.53	15.55
Surface	26'	800'	800'	950'	950'	20" 133# J55 BTC	2.98	6.07	100.85	106.52
Int 1	17.5'	0'	0'	2050'	2050'	13.375" 54.5# J55 STC	1.04	2.51	4.60	7.63
Int 2	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.70	2.97	4.75	5.91
Production	8.75'	0'	0'	8426'	8270'	7" 26# P110 LTC	1.39	2.23	3.16	3.79
Liner	6.125'	8226'	8071'	19106'	8957'	4.5" 13.5# P110 LTC	1.64	1.91	2.30	2.87

All casing strings will be tested in accordance with 43 CFR Part 3172. 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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft³/sack	TOC/BOC	Volume, ft³	% Excess	Slurry Description
20.000 in	LEAD	1230	12.5	2.12	0' - 861'	2610	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	861' - 950'	268		Class C: Retarder
1st Stg 13.375 in	LEAD	80	12.5	2.12	1140' - 1493'	170	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1493' - 2050'	268		Class C: Retarder
13 3/8" DV Tool @ 1140'								
2nd Stg 13.375 in	LEAD	490	12.5	2.12	0' - 1010'	1040	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1010' - 1140'	134		Class C: Retarder
1st Stg 9.625 in	LEAD	50	12.5	2.12	1065' - 2260'	110	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	2260' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	320	12.5	2.12	0' - 1754'	680	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	1754' - 2100'	0		Class C: Retarder
1st Stg 7 in	LEAD	200	12.5	2.12	5000' - 7212'	430	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	200	15.6	1.18	7212' - 8426'	236		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	8226' - 19106'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Canal 20/19 Fed Com #714H _ MOVE
Sec 20, T21S, R27E
SHL: 220' FNL & 305' FEL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)

Plan: Design #1

Standard Planning Report

29 July, 2025

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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 Canal 20/19 Fed Com #714H _ MOVE

Site Position:		**Northing:**	535,536.50 usft	**Latitude:**	32.4721871
From:	Map	**Easting:**	581,053.00 usft	**Longitude:**	-104.2045495
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 20, T21S, R27E

Well Position	**+N/-S**	0.0 usft	**Northing:**	535,536.50 usft	**Latitude:**	32.4721871
	+E/-W	0.0 usft	**Easting:**	581,053.00 usft	**Longitude:**	-104.2045495
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,247.0 usft	**Ground Level:**	3,219.0 usft
Grid Convergence:		0.07 °				

Wellbore BHL: 830' FNL & 100' FWL (Sec 19)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.46	60.22	48,318.80131557

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	265.55

Plan Survey Tool Program **Date** 7/29/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,105.9	Design #1 (BHL: 830' FNL & 100'		

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	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,064.2	7.28	154.28	3,063.3	-20.8	10.0	2.00	2.00	0.00	154.28	
8,062.1	7.28	154.28	8,020.7	-591.8	285.1	0.00	0.00	0.00	0.00	
8,426.3	0.00	0.00	8,384.0	-612.6	295.1	2.00	-2.00	0.00	180.00	KOP: 830' FNL & 10' I
9,334.9	90.84	269.06	8,957.0	-622.2	-286.3	10.00	10.00	0.00	-90.94	
19,105.9	90.84	269.06	8,814.0	-783.0	-10,054.9	0.00	0.00	0.00	0.00	BHL: 830' FNL & 100'

Planning Report

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Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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: 220' FNL & 305' FEL (Sec 20)									
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
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	2.00	154.28	2,800.0	-1.6	0.8	-0.6	2.00	2.00	0.00
2,900.0	4.00	154.28	2,899.8	-6.3	3.0	-2.5	2.00	2.00	0.00
3,000.0	6.00	154.28	2,999.5	-14.1	6.8	-5.7	2.00	2.00	0.00
3,064.2	7.28	154.28	3,063.3	-20.8	10.0	-8.4	2.00	2.00	0.00
3,100.0	7.28	154.28	3,098.7	-24.9	12.0	-10.0	0.00	0.00	0.00
3,200.0	7.28	154.28	3,197.9	-36.3	17.5	-14.6	0.00	0.00	0.00
3,300.0	7.28	154.28	3,297.1	-47.8	23.0	-19.2	0.00	0.00	0.00
3,400.0	7.28	154.28	3,396.3	-59.2	28.5	-23.8	0.00	0.00	0.00
3,500.0	7.28	154.28	3,495.5	-70.6	34.0	-28.4	0.00	0.00	0.00
3,600.0	7.28	154.28	3,594.7	-82.0	39.5	-33.0	0.00	0.00	0.00
3,700.0	7.28	154.28	3,693.9	-93.5	45.0	-37.6	0.00	0.00	0.00
3,800.0	7.28	154.28	3,793.1	-104.9	50.5	-42.2	0.00	0.00	0.00
3,900.0	7.28	154.28	3,892.3	-116.3	56.0	-46.8	0.00	0.00	0.00
4,000.0	7.28	154.28	3,991.5	-127.7	61.5	-51.4	0.00	0.00	0.00
4,100.0	7.28	154.28	4,090.7	-139.2	67.0	-56.0	0.00	0.00	0.00
4,200.0	7.28	154.28	4,189.9	-150.6	72.5	-60.6	0.00	0.00	0.00
4,300.0	7.28	154.28	4,289.0	-162.0	78.0	-65.2	0.00	0.00	0.00
4,400.0	7.28	154.28	4,388.2	-173.4	83.5	-69.8	0.00	0.00	0.00
4,500.0	7.28	154.28	4,487.4	-184.8	89.0	-74.4	0.00	0.00	0.00
4,600.0	7.28	154.28	4,586.6	-196.3	94.5	-79.0	0.00	0.00	0.00
4,700.0	7.28	154.28	4,685.8	-207.7	100.1	-83.6	0.00	0.00	0.00
4,800.0	7.28	154.28	4,785.0	-219.1	105.6	-88.2	0.00	0.00	0.00
4,900.0	7.28	154.28	4,884.2	-230.5	111.1	-92.8	0.00	0.00	0.00
5,000.0	7.28	154.28	4,983.4	-242.0	116.6	-97.4	0.00	0.00	0.00
5,100.0	7.28	154.28	5,082.6	-253.4	122.1	-102.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
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Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
5,200.0	7.28	154.28	5,181.8	-264.8	127.6	-106.6	0.00	0.00	0.00
5,300.0	7.28	154.28	5,281.0	-276.2	133.1	-111.2	0.00	0.00	0.00
5,400.0	7.28	154.28	5,380.2	-287.7	138.6	-115.8	0.00	0.00	0.00
5,500.0	7.28	154.28	5,479.4	-299.1	144.1	-120.4	0.00	0.00	0.00
5,600.0	7.28	154.28	5,578.6	-310.5	149.6	-125.0	0.00	0.00	0.00
5,700.0	7.28	154.28	5,677.7	-321.9	155.1	-129.6	0.00	0.00	0.00
5,800.0	7.28	154.28	5,776.9	-333.4	160.6	-134.2	0.00	0.00	0.00
5,900.0	7.28	154.28	5,876.1	-344.8	166.1	-138.8	0.00	0.00	0.00
6,000.0	7.28	154.28	5,975.3	-356.2	171.6	-143.4	0.00	0.00	0.00
6,100.0	7.28	154.28	6,074.5	-367.6	177.1	-148.0	0.00	0.00	0.00
6,200.0	7.28	154.28	6,173.7	-379.1	182.6	-152.6	0.00	0.00	0.00
6,300.0	7.28	154.28	6,272.9	-390.5	188.1	-157.2	0.00	0.00	0.00
6,400.0	7.28	154.28	6,372.1	-401.9	193.6	-161.8	0.00	0.00	0.00
6,500.0	7.28	154.28	6,471.3	-413.3	199.1	-166.4	0.00	0.00	0.00
6,600.0	7.28	154.28	6,570.5	-424.7	204.6	-171.0	0.00	0.00	0.00
6,700.0	7.28	154.28	6,669.7	-436.2	210.1	-175.6	0.00	0.00	0.00
6,800.0	7.28	154.28	6,768.9	-447.6	215.6	-180.2	0.00	0.00	0.00
6,900.0	7.28	154.28	6,868.1	-459.0	221.1	-184.8	0.00	0.00	0.00
7,000.0	7.28	154.28	6,967.3	-470.4	226.6	-189.4	0.00	0.00	0.00
7,100.0	7.28	154.28	7,066.4	-481.9	232.1	-194.0	0.00	0.00	0.00
7,200.0	7.28	154.28	7,165.6	-493.3	237.6	-198.6	0.00	0.00	0.00
7,300.0	7.28	154.28	7,264.8	-504.7	243.1	-203.2	0.00	0.00	0.00
7,400.0	7.28	154.28	7,364.0	-516.1	248.6	-207.8	0.00	0.00	0.00
7,500.0	7.28	154.28	7,463.2	-527.6	254.1	-212.4	0.00	0.00	0.00
7,600.0	7.28	154.28	7,562.4	-539.0	259.6	-217.0	0.00	0.00	0.00
7,700.0	7.28	154.28	7,661.6	-550.4	265.1	-221.6	0.00	0.00	0.00
7,800.0	7.28	154.28	7,760.8	-561.8	270.6	-226.2	0.00	0.00	0.00
7,900.0	7.28	154.28	7,860.0	-573.3	276.1	-230.8	0.00	0.00	0.00
8,000.0	7.28	154.28	7,959.2	-584.7	281.6	-235.4	0.00	0.00	0.00
8,062.1	7.28	154.28	8,020.7	-591.8	285.1	-238.3	0.00	0.00	0.00
8,100.0	6.53	154.28	8,058.4	-595.9	287.0	-239.9	2.00	-2.00	0.00
8,200.0	4.53	154.28	8,157.9	-604.6	291.2	-243.4	2.00	-2.00	0.00
8,300.0	2.53	154.28	8,257.7	-610.1	293.9	-245.6	2.00	-2.00	0.00
8,400.0	0.53	154.28	8,357.7	-612.5	295.0	-246.6	2.00	-2.00	0.00
8,426.3	0.00	0.00	8,384.0	-612.6	295.1	-246.6	2.00	-2.00	0.00
KOP: 830' FNL & 10' FEL (Sec 20)									
8,450.0	2.37	269.06	8,407.7	-612.6	294.6	-246.2	10.00	10.00	0.00
8,500.0	7.37	269.06	8,457.5	-612.7	290.4	-241.9	10.00	10.00	0.00
8,550.0	12.37	269.06	8,506.7	-612.8	281.8	-233.4	10.00	10.00	0.00
8,600.0	17.37	269.06	8,555.1	-613.0	269.0	-220.6	10.00	10.00	0.00
8,650.0	22.37	269.06	8,602.1	-613.3	252.0	-203.6	10.00	10.00	0.00
8,700.0	27.36	269.06	8,647.4	-613.7	231.0	-182.6	10.00	10.00	0.00
8,750.0	32.36	269.06	8,690.8	-614.1	206.1	-157.8	10.00	10.00	0.00
8,751.9	32.55	269.06	8,692.3	-614.1	205.1	-156.8	10.00	10.00	0.00
FTP: 830' FNL & 100' FEL (Sec 20)									
8,800.0	37.36	269.06	8,731.8	-614.5	177.5	-129.3	10.00	10.00	0.00
8,850.0	42.36	269.06	8,770.1	-615.1	145.5	-97.3	10.00	10.00	0.00
8,900.0	47.36	269.06	8,805.6	-615.6	110.2	-62.1	10.00	10.00	0.00
8,950.0	52.36	269.06	8,837.8	-616.3	72.0	-24.0	10.00	10.00	0.00
9,000.0	57.36	269.06	8,866.6	-616.9	31.2	16.8	10.00	10.00	0.00
9,050.0	62.36	269.06	8,891.7	-617.7	-12.1	60.0	10.00	10.00	0.00
9,100.0	67.36	269.06	8,912.9	-618.4	-57.3	105.1	10.00	10.00	0.00
9,150.0	72.36	269.06	8,930.1	-619.2	-104.2	152.0	10.00	10.00	0.00
9,200.0	77.36	269.06	8,943.2	-620.0	-152.5	200.1	10.00	10.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
9,250.0	82.35	269.06	8,952.0	-620.8	-201.7	249.2	10.00	10.00	0.00
9,300.0	87.35	269.06	8,956.5	-621.6	-251.4	298.9	10.00	10.00	0.00
9,334.9	90.84	269.06	8,957.0	-622.2	-286.3	333.7	10.00	10.00	0.00
LP: 830' FNL & 583' FEL (Sec 20)									
9,400.0	90.84	269.06	8,956.0	-623.2	-351.4	398.7	0.00	0.00	0.00
9,500.0	90.84	269.06	8,954.6	-624.9	-451.4	498.5	0.00	0.00	0.00
9,600.0	90.84	269.06	8,953.1	-626.5	-551.4	598.3	0.00	0.00	0.00
9,700.0	90.84	269.06	8,951.7	-628.2	-651.3	698.1	0.00	0.00	0.00
9,800.0	90.84	269.06	8,950.2	-629.8	-751.3	797.9	0.00	0.00	0.00
9,900.0	90.84	269.06	8,948.7	-631.5	-851.3	897.7	0.00	0.00	0.00
10,000.0	90.84	269.06	8,947.3	-633.1	-951.3	997.5	0.00	0.00	0.00
10,100.0	90.84	269.06	8,945.8	-634.8	-1,051.2	1,097.3	0.00	0.00	0.00
10,200.0	90.84	269.06	8,944.3	-636.4	-1,151.2	1,197.1	0.00	0.00	0.00
10,300.0	90.84	269.06	8,942.9	-638.1	-1,251.2	1,296.9	0.00	0.00	0.00
10,400.0	90.84	269.06	8,941.4	-639.7	-1,351.2	1,396.7	0.00	0.00	0.00
10,500.0	90.84	269.06	8,939.9	-641.3	-1,451.1	1,496.5	0.00	0.00	0.00
10,600.0	90.84	269.06	8,938.5	-643.0	-1,551.1	1,596.3	0.00	0.00	0.00
10,700.0	90.84	269.06	8,937.0	-644.6	-1,651.1	1,696.2	0.00	0.00	0.00
10,800.0	90.84	269.06	8,935.6	-646.3	-1,751.1	1,796.0	0.00	0.00	0.00
10,900.0	90.84	269.06	8,934.1	-647.9	-1,851.0	1,895.8	0.00	0.00	0.00
11,000.0	90.84	269.06	8,932.6	-649.6	-1,951.0	1,995.6	0.00	0.00	0.00
11,100.0	90.84	269.06	8,931.2	-651.2	-2,051.0	2,095.4	0.00	0.00	0.00
11,200.0	90.84	269.06	8,929.7	-652.9	-2,151.0	2,195.2	0.00	0.00	0.00
11,300.0	90.84	269.06	8,928.2	-654.5	-2,250.9	2,295.0	0.00	0.00	0.00
11,370.6	90.84	269.06	8,927.2	-655.7	-2,321.5	2,365.4	0.00	0.00	0.00
PPP2: 897' FNL & 2627' FWL (Sec 20)									
11,400.0	90.84	269.06	8,926.8	-656.2	-2,350.9	2,394.8	0.00	0.00	0.00
11,500.0	90.84	269.06	8,925.3	-657.8	-2,450.9	2,494.6	0.00	0.00	0.00
11,600.0	90.84	269.06	8,923.8	-659.5	-2,550.9	2,594.4	0.00	0.00	0.00
11,700.0	90.84	269.06	8,922.4	-661.1	-2,650.8	2,694.2	0.00	0.00	0.00
11,800.0	90.84	269.06	8,920.9	-662.7	-2,750.8	2,794.0	0.00	0.00	0.00
11,900.0	90.84	269.06	8,919.5	-664.4	-2,850.8	2,893.8	0.00	0.00	0.00
12,000.0	90.84	269.06	8,918.0	-666.0	-2,950.8	2,993.6	0.00	0.00	0.00
12,100.0	90.84	269.06	8,916.5	-667.7	-3,050.7	3,093.4	0.00	0.00	0.00
12,200.0	90.84	269.06	8,915.1	-669.3	-3,150.7	3,193.2	0.00	0.00	0.00
12,300.0	90.84	269.06	8,913.6	-671.0	-3,250.7	3,293.0	0.00	0.00	0.00
12,400.0	90.84	269.06	8,912.1	-672.6	-3,350.7	3,392.8	0.00	0.00	0.00
12,500.0	90.84	269.06	8,910.7	-674.3	-3,450.6	3,492.6	0.00	0.00	0.00
12,600.0	90.84	269.06	8,909.2	-675.9	-3,550.6	3,592.4	0.00	0.00	0.00
12,700.0	90.84	269.06	8,907.8	-677.6	-3,650.6	3,692.2	0.00	0.00	0.00
12,800.0	90.84	269.06	8,906.3	-679.2	-3,750.6	3,792.0	0.00	0.00	0.00
12,900.0	90.84	269.06	8,904.8	-680.9	-3,850.6	3,891.8	0.00	0.00	0.00
13,000.0	90.84	269.06	8,903.4	-682.5	-3,950.5	3,991.6	0.00	0.00	0.00
13,100.0	90.84	269.06	8,901.9	-684.1	-4,050.5	4,091.4	0.00	0.00	0.00
13,200.0	90.84	269.06	8,900.4	-685.8	-4,150.5	4,191.2	0.00	0.00	0.00
13,300.0	90.84	269.06	8,899.0	-687.4	-4,250.5	4,291.0	0.00	0.00	0.00
13,400.0	90.84	269.06	8,897.5	-689.1	-4,350.4	4,390.8	0.00	0.00	0.00
13,500.0	90.84	269.06	8,896.0	-690.7	-4,450.4	4,490.6	0.00	0.00	0.00
13,600.0	90.84	269.06	8,894.6	-692.4	-4,550.4	4,590.4	0.00	0.00	0.00
13,700.0	90.84	269.06	8,893.1	-694.0	-4,650.4	4,690.2	0.00	0.00	0.00
13,800.0	90.84	269.06	8,891.7	-695.7	-4,750.3	4,790.0	0.00	0.00	0.00
13,900.0	90.84	269.06	8,890.2	-697.3	-4,850.3	4,889.8	0.00	0.00	0.00
14,000.0	90.84	269.06	8,888.7	-699.0	-4,950.3	4,989.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
14,100.0	90.84	269.06	8,887.3	-700.6	-5,050.3	5,089.4	0.00	0.00	0.00
14,200.0	90.84	269.06	8,885.8	-702.3	-5,150.2	5,189.2	0.00	0.00	0.00
14,300.0	90.84	269.06	8,884.3	-703.9	-5,250.2	5,289.0	0.00	0.00	0.00
14,400.0	90.84	269.06	8,882.9	-705.5	-5,350.2	5,388.8	0.00	0.00	0.00
14,500.0	90.84	269.06	8,881.4	-707.2	-5,450.2	5,488.6	0.00	0.00	0.00
14,600.0	90.84	269.06	8,879.9	-708.8	-5,550.1	5,588.4	0.00	0.00	0.00
14,700.0	90.84	269.06	8,878.5	-710.5	-5,650.1	5,688.2	0.00	0.00	0.00
14,800.0	90.84	269.06	8,877.0	-712.1	-5,750.1	5,788.0	0.00	0.00	0.00
14,900.0	90.84	269.06	8,875.6	-713.8	-5,850.1	5,887.8	0.00	0.00	0.00
15,000.0	90.84	269.06	8,874.1	-715.4	-5,950.0	5,987.6	0.00	0.00	0.00
15,100.0	90.84	269.06	8,872.6	-717.1	-6,050.0	6,087.4	0.00	0.00	0.00
15,200.0	90.84	269.06	8,871.2	-718.7	-6,150.0	6,187.2	0.00	0.00	0.00
15,300.0	90.84	269.06	8,869.7	-720.4	-6,250.0	6,287.0	0.00	0.00	0.00
15,400.0	90.84	269.06	8,868.2	-722.0	-6,349.9	6,386.8	0.00	0.00	0.00
15,500.0	90.84	269.06	8,866.8	-723.6	-6,449.9	6,486.6	0.00	0.00	0.00
15,600.0	90.84	269.06	8,865.3	-725.3	-6,549.9	6,586.4	0.00	0.00	0.00
15,700.0	90.84	269.06	8,863.8	-726.9	-6,649.9	6,686.2	0.00	0.00	0.00
15,800.0	90.84	269.06	8,862.4	-728.6	-6,749.8	6,786.0	0.00	0.00	0.00
15,900.0	90.84	269.06	8,860.9	-730.2	-6,849.8	6,885.8	0.00	0.00	0.00
16,000.0	90.84	269.06	8,859.5	-731.9	-6,949.8	6,985.6	0.00	0.00	0.00
16,100.0	90.84	269.06	8,858.0	-733.5	-7,049.8	7,085.4	0.00	0.00	0.00
16,200.0	90.84	269.06	8,856.5	-735.2	-7,149.8	7,185.2	0.00	0.00	0.00
16,300.0	90.84	269.06	8,855.1	-736.8	-7,249.7	7,285.1	0.00	0.00	0.00
16,400.0	90.84	269.06	8,853.6	-738.5	-7,349.7	7,384.9	0.00	0.00	0.00
16,500.0	90.84	269.06	8,852.1	-740.1	-7,449.7	7,484.7	0.00	0.00	0.00
16,600.0	90.84	269.06	8,850.7	-741.8	-7,549.7	7,584.5	0.00	0.00	0.00
16,700.0	90.84	269.06	8,849.2	-743.4	-7,649.6	7,684.3	0.00	0.00	0.00
16,800.0	90.84	269.06	8,847.7	-745.0	-7,749.6	7,784.1	0.00	0.00	0.00
16,900.0	90.84	269.06	8,846.3	-746.7	-7,849.6	7,883.9	0.00	0.00	0.00
17,000.0	90.84	269.06	8,844.8	-748.3	-7,949.6	7,983.7	0.00	0.00	0.00
17,100.0	90.84	269.06	8,843.4	-750.0	-8,049.5	8,083.5	0.00	0.00	0.00
17,200.0	90.84	269.06	8,841.9	-751.6	-8,149.5	8,183.3	0.00	0.00	0.00
17,300.0	90.84	269.06	8,840.4	-753.3	-8,249.5	8,283.1	0.00	0.00	0.00
17,400.0	90.84	269.06	8,839.0	-754.9	-8,349.5	8,382.9	0.00	0.00	0.00
17,500.0	90.84	269.06	8,837.5	-756.6	-8,449.4	8,482.7	0.00	0.00	0.00
17,600.0	90.84	269.06	8,836.0	-758.2	-8,549.4	8,582.5	0.00	0.00	0.00
17,700.0	90.84	269.06	8,834.6	-759.9	-8,649.4	8,682.3	0.00	0.00	0.00
17,800.0	90.84	269.06	8,833.1	-761.5	-8,749.4	8,782.1	0.00	0.00	0.00
17,900.0	90.84	269.06	8,831.6	-763.2	-8,849.3	8,881.9	0.00	0.00	0.00
17,970.3	90.84	269.06	8,830.6	-764.3	-8,919.6	8,952.0	0.00	0.00	0.00
PPP3: 861' FNL & 1237' FWL (Sec 19)									
18,000.0	90.84	269.06	8,830.2	-764.8	-8,949.3	8,981.7	0.00	0.00	0.00
18,100.0	90.84	269.06	8,828.7	-766.4	-9,049.3	9,081.5	0.00	0.00	0.00
18,200.0	90.84	269.06	8,827.3	-768.1	-9,149.3	9,181.3	0.00	0.00	0.00
18,300.0	90.84	269.06	8,825.8	-769.7	-9,249.2	9,281.1	0.00	0.00	0.00
18,400.0	90.84	269.06	8,824.3	-771.4	-9,349.2	9,380.9	0.00	0.00	0.00
18,500.0	90.84	269.06	8,822.9	-773.0	-9,449.2	9,480.7	0.00	0.00	0.00
18,600.0	90.84	269.06	8,821.4	-774.7	-9,549.2	9,580.5	0.00	0.00	0.00
18,700.0	90.84	269.06	8,819.9	-776.3	-9,649.1	9,680.3	0.00	0.00	0.00
18,800.0	90.84	269.06	8,818.5	-778.0	-9,749.1	9,780.1	0.00	0.00	0.00
18,900.0	90.84	269.06	8,817.0	-779.6	-9,849.1	9,879.9	0.00	0.00	0.00
19,000.0	90.84	269.06	8,815.5	-781.3	-9,949.1	9,979.7	0.00	0.00	0.00
19,105.9	90.84	269.06	8,814.0	-783.0	-10,054.9	10,085.3	0.00	0.00	0.00
BHL: 830' FNL & 100' FWL (Sec 19)									

Planning Report

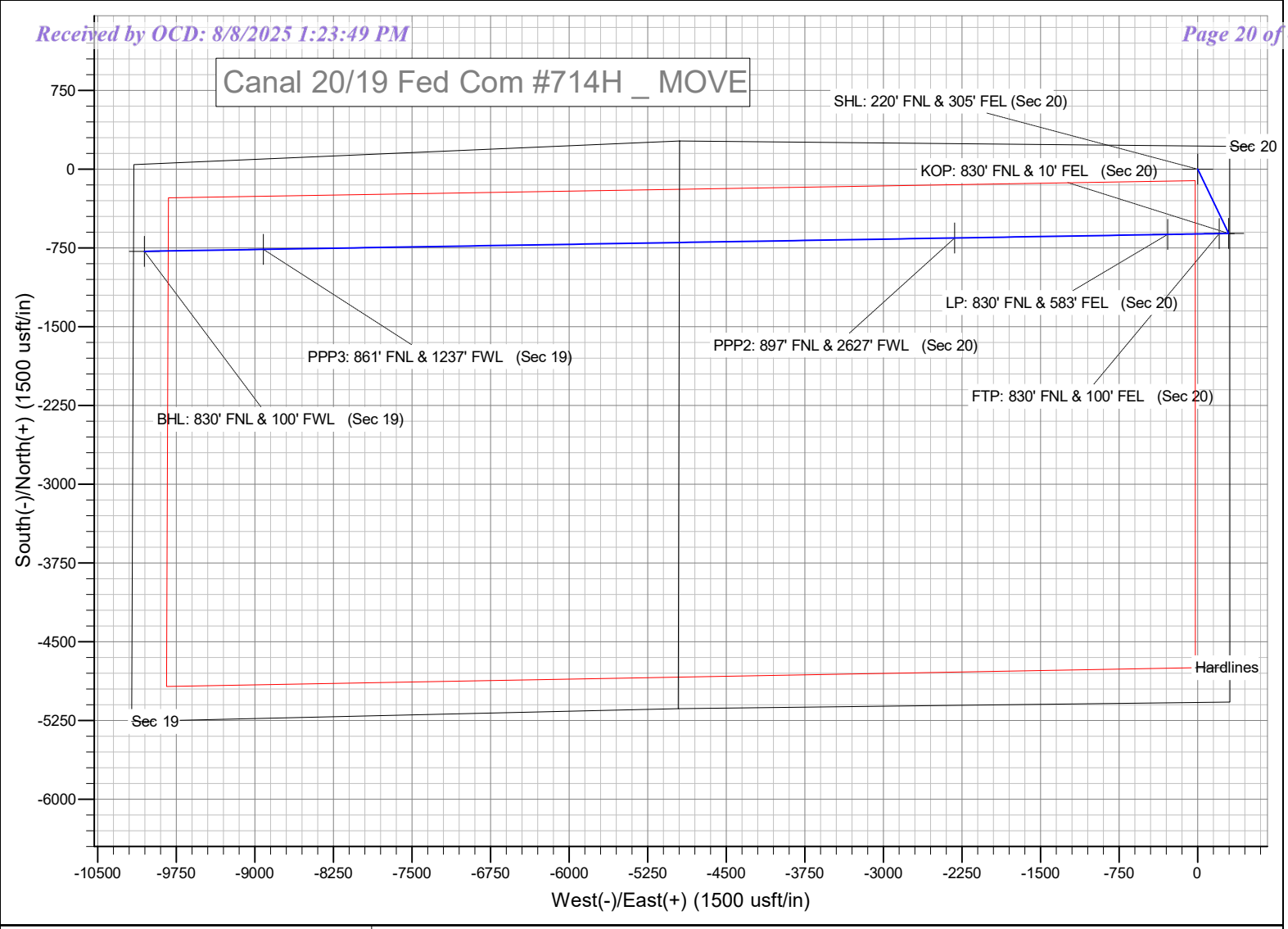
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
Design:	Design #1		

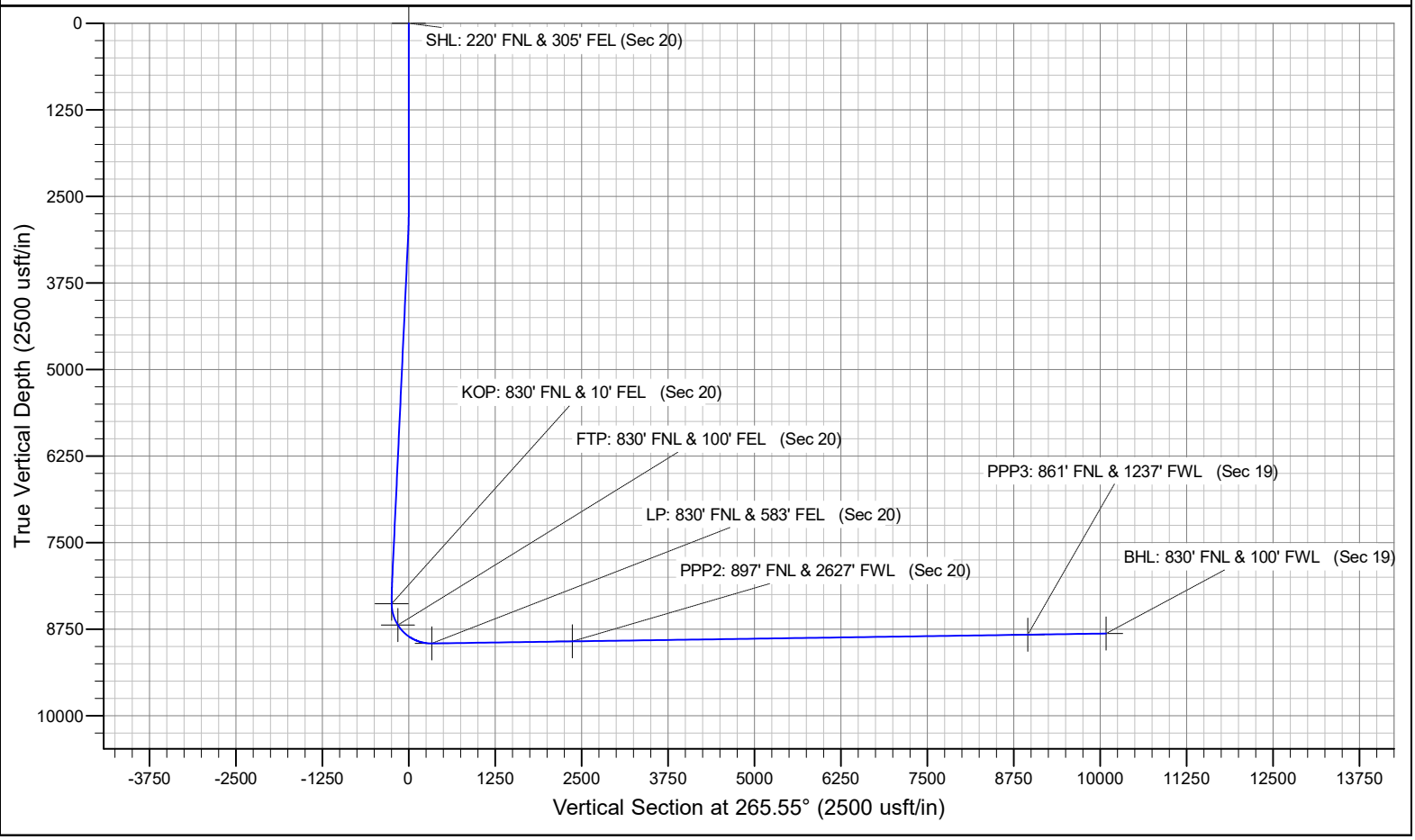
Planned Survey

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)

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: 220' FNL & 305' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	535,536.50	581,053.00	32.4721871	-104.2045495
KOP: 830' FNL & 10' FE - plan hits target center - Point	0.00	0.00	8,384.0	-612.6	295.1	534,923.90	581,348.10	32.4705022	-104.2035951
FTP: 830' FNL & 100' FE - plan hits target center - Point	0.00	0.00	8,692.3	-614.1	205.1	534,922.42	581,258.10	32.4704985	-104.2038869
BHL: 830' FNL & 100' FV - plan hits target center - Point	0.00	0.00	8,814.0	-783.0	-10,054.9	534,753.50	570,998.10	32.4700639	-104.2371564
PPP3: 861' FNL & 1237' - plan hits target center - Point	0.00	0.00	8,830.6	-764.3	-8,919.6	534,772.19	572,133.40	32.4701125	-104.2334750
PPP2: 897' FNL & 2627' - plan hits target center - Point	0.00	0.00	8,927.2	-655.7	-2,321.5	534,880.82	578,731.50	32.4703923	-104.2120798
LP: 830' FNL & 583' FEL - plan hits target center - Point	0.00	0.00	8,957.0	-622.2	-286.3	534,914.33	580,766.73	32.4704778	-104.2054802


Canal 20/19 Fed Com #714H _ MOVE
SHL: 220' FNL & 305' FEL (Sec 20)
Sec 20
KOP: 830' FNL & 10' FEL (Sec 20)
LP: 830' FNL & 583' FEL (Sec 20)
PPP3: 861' FNL & 1237' FWL (Sec 19)
PPP2: 897' FNL & 2627' FWL (Sec 20)
FTP: 830' FNL & 100' FEL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)
Hardlines
Sec 19
South(-)/North(+) (1500 usft/in)
West(-)/East(+) (1500 usft/in)


SHL: 220' FNL & 305' FEL (Sec 20)
KOP: 830' FNL & 10' FEL (Sec 20)
FTP: 830' FNL & 100' FEL (Sec 20)
PPP3: 861' FNL & 1237' FWL (Sec 19)
LP: 830' FNL & 583' FEL (Sec 20)
PPP2: 897' FNL & 2627' FWL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)
True Vertical Depth (2500 usft/in)
Vertical Section at 265.55° (2500 usft/in)

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
WELL NAME & NO.:	CANAL 20/19 FED COM 714H
APD ID:	25SA09185
API#:	3001557073
LOCATION:	Section 20, T21S, R27E. NMP.
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2866423** on 8/6/2025. The P&A sundry# 2862949 was approved for the original well: CANAL 20/19 FED COM 714Y; API# 3001556329.*

COA

H_2S	○ No		◉ Yes	
Potash / WIPP	◉ None	○ Secretary	○ R-111-Q	☐ Open Annulus ☐ WIPP
Cave / Karst	○ Low	◉ Medium	○ High	○ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☑ DV Tool
Special Req	☑ Capitan Reef	☐ Water Disposal	☑ COM	☐ Unit
Waste Prev.	○ Self-Certification	○ Waste Min. Plan	◉ APD Submitted prior to 06/10/2024	
Additional Language	☑ Flex Hose ☐ Four-String	☐ Casing Clearance ☑ Offline Cementing	☐ Pilot Hole ☐ Fluid-Filled	☑ Break Testing

SEE ORIGINAL COA FOR ALL OTHER REQUIREMENTS.

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H_2S) Drilling Plan shall be activated **AT SPUD**. As a result, the Hydrogen Sulfide area must meet **43 CFR 3176** requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

Note: Conductor pipe shall be set at approximately 225 ft. and cemented to surface.

Primary Casing Program (3-string)

1. The **13-3/8** inch surface casing shall be set at approximately **950** ft. and cemented to the surface. Rustler is at the surface. BLM accepts Tansill/Yates formations for surface casing set depth. **If salt is encountered set casing at least 25 ft. above the salt.**

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 psi 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.

Note: The intermediate casing set depth was adjusted per BLM geologist's recommendation. The Capitan reef protection string shall be set 150 ft. above the base of Capitan.

Note: For 9-5/8" DV tool, it is recommended that the tool be positioned a minimum of 50 feet below the Capitan Reef top. Given that the estimated depth of the Capitan Reef top is 1,090 feet, the appropriate placement depth for the DV tool should be at 1,140 feet, rather than at the previously considered depth of 1,065 feet.

2. The **9-5/8** inch 1st intermediate casing shall be set in a competent bed at approximately **2,553 ft.** 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, and Capitan Reef.**

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. *DV tool shall be set a minimum of 50 ft. below the Capitan reef top*. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. 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, and Capitan Reef.**

Note: Excess cement for the 2nd stage is less than 25%. More cement might be needed.

❖ 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 Capitan Reef 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.

- ❖ **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:
    - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
    - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

3. Operator has proposed to set 7" production casing at approximately **8,426 ft.** (8,270 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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, and Capitan Reef.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. 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 should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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, and Capitan Reef.

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.

Alternate Casing Program (4-string)

1. The **20** inch surface casing shall be set at approximately **950** ft. and cemented to the surface. Rustler is at the surface. BLM accepts Tansill/Yates formations for surface casing set depth. **If salt is encountered set casing at least 25 ft. above the salt.**

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 psi 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 **13-3/8** inch (**J-55, 54.5#**) 1st intermediate casing shall be set in a competent bed at approximately **2,050 ft.** 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, and Capitan Reef.**

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. *DV tool shall be set a minimum of 50 ft. below the Capitan reef top*. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. 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, and Capitan Reef.**

- 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 Capitan Reef 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.

- **Special Capitan Reef requirements.** If lost circulation (50% or greater) occurs below the Base of the Salt, the operator shall do the following:

  - Switch to freshwater mud to protect the Capitan Reef and use freshwater mud until setting the intermediate casing. The appropriate BLM office is to be notified for a PET to witness the switch to fresh water.
  - Daily drilling reports from the Base of the Salt to the setting of the intermediate casing are to be submitted to the BLM CFO engineering staff via e-mail by 0800 hours each morning. Any lost circulation encountered is to be recorded on these

drilling reports. The daily drilling report should show mud volume per shift/tour. Failure to submit these reports will result in an Incidence of Non-Compliance being issued for failure to comply with the Conditions of Approval. If not already planned, the operator shall run a caliper survey for the intermediate well bore and submit to the appropriate BLM office.

Note: The 2nd intermediate casing set depth was adjusted per BLM geologist's recommendation. The Capitan reef protection string shall be set 150 ft. above the base of Capitan.

3. The **9-5/8** inch 2nd intermediate casing shall be set in a competent bed at approximately **2,553 ft.** 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, and Capitan Reef.**

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. *DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe.* Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. The DV tool may be cancelled if cement circulates to surface on the first stage.

c. 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.

d. 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, and Capitan Reef.**

Note: Excess cement for the 2nd stage is less than 25%. More cement might be needed.

4. Operator has proposed to set 7" production casing at approximately **8,426 ft.** (8,270 ft. TVD). The minimum required fill of cement behind the **7** inch production casing is:

Option 1 (Single Stage): Cement should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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, and Capitan Reef.

Option 2 (Two-Stage): The operator has proposed to utilize a DV tool. Operator may adjust depth of DV tool if needed, adjust cement volumes accordingly. 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 should tie-back at least **50 feet** above the Capitan Reef top or **200 feet** into the previous casing, whichever is greater. 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, and Capitan Reef.

5. 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.

Offline Cementing

Operator has been **(Approved)** to pump the proposed cement program offline in the **Surface and intermediate(s) intervals**. Offline cementing should commence within 24 hours of landing the casing for the interval. Notify the BLM 4hrs prior to the commencement of any offline cementing procedure at **Eddy County: 575-361-2822**.

C. 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. 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. Before drilling out surface casing shoe, BOP/ BOPE and annular preventer must be pressure tested in accordance with **title 43 CFR 3172 and API Standard 53.**

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 43 CFR 3172 must be followed.

BOPE Break Testing Variance (Utilizing a 10M BOPE system)

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)**

- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted **(575-689-5981 Lea County)** 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

a. Spudding well (minimum of 24 hours)
b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220; **BLM_NM_CFO_DrillingNotifications@BLM.GOV**; (575) 361-2822.

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
    a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
    b. When the operator proposes to set surface casing with Spudder Rig
        i. Notify the BLM when moving in and removing the Spudder Rig.
        ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
        iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the doghouse or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded

in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
    i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

ii. 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.
iii. Manufacturer representative shall install the test plug for the initial BOP test.
iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
v. 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.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (Only applies to single stage cement jobs, prior to the cement setting up.)
iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
iv. The test shall be run on a 5000-psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one-hour chart. A circular chart shall have a maximum 2-hour clock. If a twelve hour or twenty-four-hour chart is used, tester shall make a notation that it is run with a two hour clock.
v. The results of the test shall be reported to the appropriate BLM office.

vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.

vii. The BOP/BOPE test shall include a low-pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

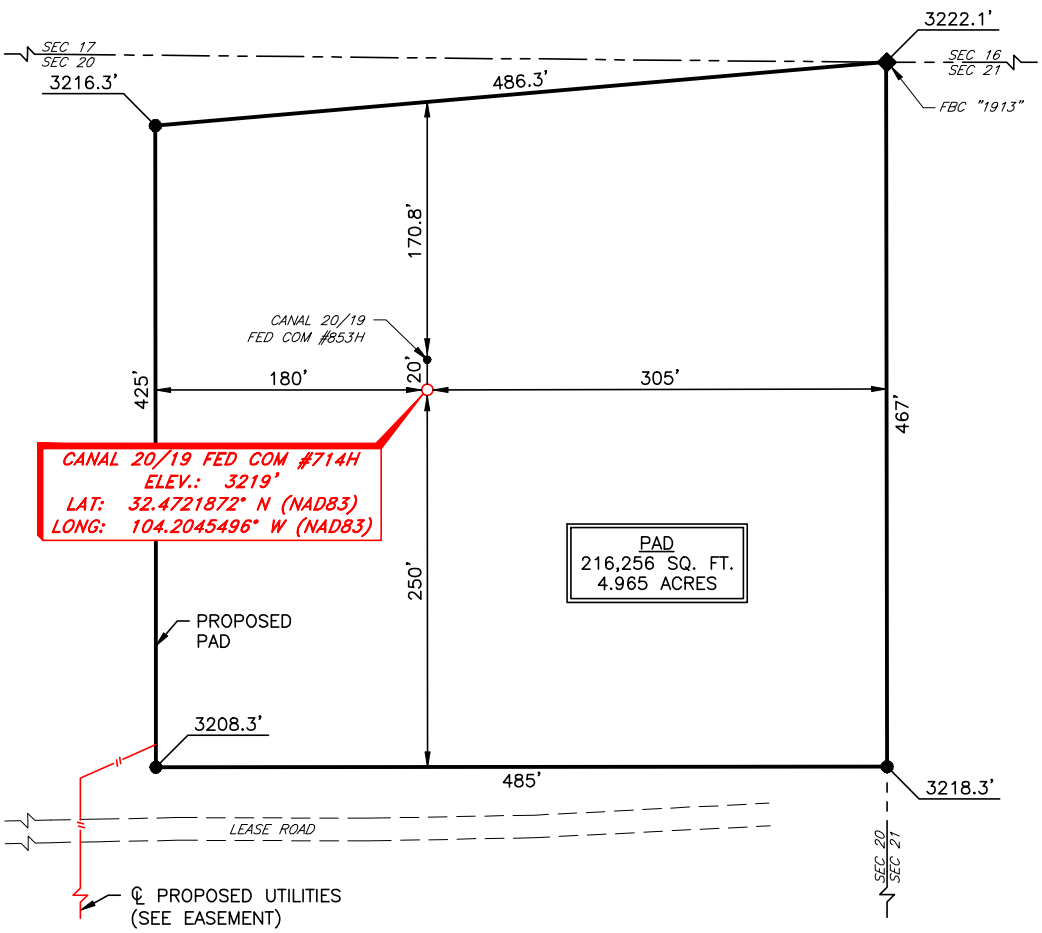
Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

SA 08/06/2025

MEWBOURNE OIL COMPANY
CANAL 20/19 FED COM #714H
(220' FNL & 305' FEL)
SECTION 20, T21S, R27E
N. M. P. M., EDDY CO., NEW MEXICO



DIRECTIONS TO LOCATION

From the intersection of George Shoup Relief Rte. and CR #206 (Illinois Camp Rd.):

Go East on George Shoup Relief Rte. approx. 1.5 miles to a lease road on the right;

Turn right and go South approx. 0.1 miles to a lease road on the left;

Turn left and go East approx. 0.2 miles to location on the left.

THIS IS NOT A BOUNDARY SURVEY, APPARENT PROPERTY CORNERS AND PROPERTY LINES ARE SHOWN FOR INFORMATION ONLY.

SCALE: 1" = 100'
0 50' 100'

BEARINGS ARE NAD 83 GRID – NM EAST DISTANCES ARE GROUND.

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this unclassified survey of a well location from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stds. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howett
Robert M. Howett NM PS 19680

ROBERT M. HOWETT
NEW MEXICO
19680
07/22/25
PROFESSIONAL SURVEYOR

NO.	REVISION	DATE
1	RESTAKE	07/15/25
JOB NO.: LS24020157R1		
DWG. NO.: 24020157R1-5		

RRC ENERGY SERVICES, LLC.
701 S. CECIL ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1" = 100'
DATE: 02/22/2024
SURVEYED BY: ML/JH
DRAWN BY: AR
APPROVED BY: RMH
SHEET: 1 OF 1

Mewbourne Oil Company

Sundry Request:

Mewbourne Oil Company requests that the following change be made to the Canal 20/19 Fed Com #714H (API 30-015-57073):

- **Change SHL f/ 960 FNL & 355 FEL (20) to 220 FNL & 305 FEL (20)**
- **Change BHL f/ 2150 FNL & 100 FWL (19) to 830 FNL & 100 FWL (19)**
- **Attached C102, Dir Plan & Plot, Drlg Program reflecting requested changes.**

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024 Submittal Type: ☐ Initial Submittal ☑ Amended Report ☐ As Drilled

WELL LOCATION INFORMATION

API Number	Pool Code	Pool Name	
30-015-57073	74160	CARLSBAD EAST WOLFCAMP GAS	
Property Code	Property Name		Well Number
	CANAL 20/19 FED COM		714H
OGRID No.	Operator Name		Ground Level Elevation
14744	MEWBOURNE OIL COMPANY		3219'
Surface Owner: ☐State ☑Fee ☐Tribal ☐Federal		Mineral Owner: ☐State ☐Fee ☐Tribal ☑Federal	

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		220 FNL	305 FEL	32.4721872°N	104.2045496°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	19	21S	27E		830 FNL	100 FWL	32.4700640°N	104.2371564°W	EDDY

Dedicated Acres	Infill or Defining Well	Defining Well API	Overlapping Spacing Unit (Y/N)	Consolidation Code
1269.92	DEFINING WELL		Y	COM
Order Numbers.			Well setbacks are under Common Ownership: ☐ Yes ■ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		830 FNL	10 FEL	32.4705021°N	104.2035952°W	EDDY

First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	20	21S	27E		830 FNL	100 FEL	32.4705048°N	104.2038869°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
D	19	21S	27E		830 FNL	100 FWL	32.4700640°N	104.2371564°W	EDDY

Unitized Area or Area of Uniform Interest	Spacing Unit Type ☑ Horizontal ☐ Vertical	Ground Floor Elevation: 3247

OPERATOR CERTIFICATIONS

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and , if the well is a vertical or directional well, 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 a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.

Ryan McDaniel 7/29/25

Signature Date

Ryan McDaniel

Printed Name

RyanMcDaniel@Mewbourne.com

Email Address

SURVEYOR CERTIFICATIONS

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

ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

Signature and Seal of Professional Surveyor

Robert M. Howett

Certificate Number	Date of Survey
19680	07/15/2025

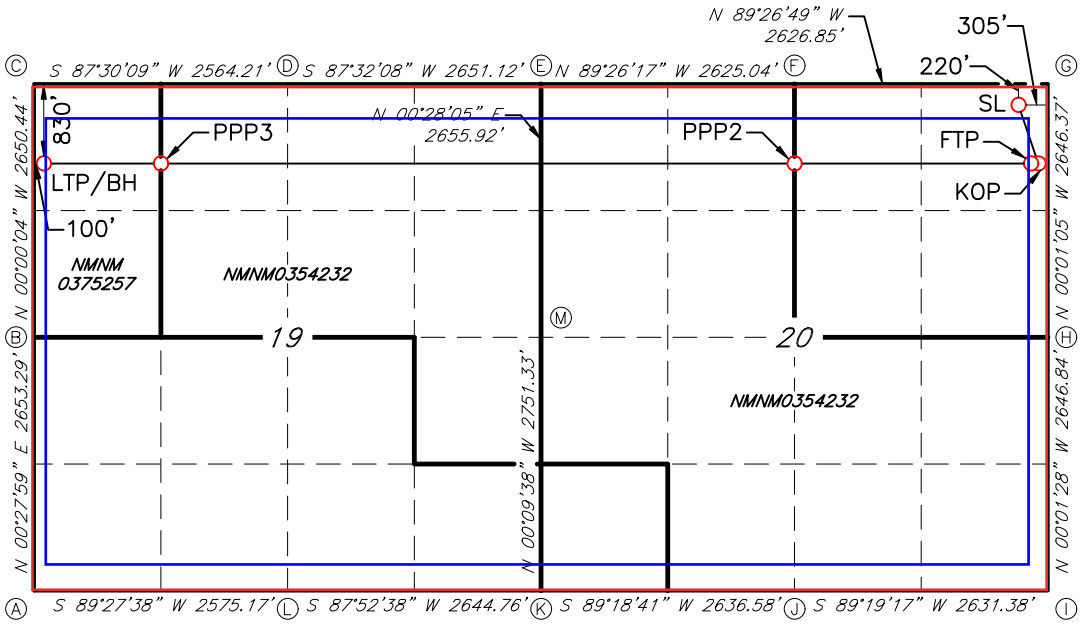
Note: No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

ACREAGE DEDICATION PLATS

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is a directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.

CANAL 20/19 FED COM #714H



GEODETIC DATA
NAD 83 GRID – NM EAST

SURFACE LOCATION (SL)
220' FNL & 305' FEL SEC.20
N: 535536.5 – E: 581053.0

LAT: 32.4721872° N
LONG: 104.2045496° W

KICK OFF POINT (KOP)
830' FNL & 10' FEL SEC.20
N: 534923.9 – E: 581348.1

LAT: 32.4705021° N
LONG: 104.2035952° W

FIRST TAKE POINT FTP (FTP)
830' FNL & 100' FEL SEC.20
N: 534924.7 – E: 581258.1

LAT: 32.4705048° N
LONG: 104.2038869° W

PROPOSED PENETRATION POINT 2 (PPP2)
897' FNL & 2627' FEL SEC.20
N: 534882.6 – E: 578731.5

LAT: 32.4703971° N
LONG: 104.2120798° W

PROPOSED PENETRATION POINT 3 (PPP3)
861' FNL & 1237' FWL SEC.19
N: 534772.5 – E: 572133.4

LAT: 32.4701132° N
LONG: 104.2334751° W

LAST TAKE POINT/BOTTOM HOLE (LTP/BH)
830' FNL & 100' FWL SEC.19
N: 534753.5 – E: 570998.1

LAT: 32.4700640° N
LONG: 104.2371564° W

CORNER DATA
NAD 83 GRID – NM EAST

A: FOUND BRASS CAP "1943"
N: 530276.6 – E: 570876.7

B: FOUND BRASS CAP "1943"
N: 532929.2 – E: 570898.3

C: FOUND 1/2" IRON ROD
N: 535579.0 – E: 570898.2

D: FOUND BRASS CAP "1943"
N: 535690.7 – E: 573459.4

E: CALCULATED CORNER
N: 535804.7 – E: 576107.4

F: FOUND BRASS CAP "1943"
N: 535778.9 – E: 578731.7

G: FOUND BRASS CAP "1943"
N: 535753.6 – E: 581357.8

H: FOUND BRASS CAP "1943"
N: 533107.8 – E: 581358.6

I: FOUND BRASS CAP "1943"
N: 530461.6 – E: 581359.8

J: FOUND BRASS CAP "1943"
N: 530430.5 – E: 578729.2

K: FOUND BRASS CAP "1943"
N: 530398.8 – E: 576093.4

L: CALCULATED CORNER
N: 530300.8 – E: 573451.1

M: FOUND BRASS CAP "1943"
N: 533149.5 – E: 576085.7

JOB #: LS24020157R1

Mewbourne Oil Company, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Well Location **GL: 3219'**

Point	Calls	Leases	Aliquot	Section	Township	Range	County	Lat	Long	TVD	MD
SHL	SHL: 220' FNL & 305' FEL (Sec 20)	Fee	NENE	20	21S	27E	Eddy	32.4721872	104.2045496	0'	0'
KOP	KOP: 830' FNL & 10' FEL (Sec 20)	Fee	SENE	20	21S	27E	Eddy	32.4705021	104.2035952	8,384'	8,426'
FTP	FTP: 830' FNL & 100' FEL (Sec 20)	Fee	SENE	20	21S	27E	Eddy	32.4705048	104.2038869	8,692'	8,752'
PPP2	PPP2: 897' FNL & 2627' FWL (Sec 20)	NMNM0354232	SENW	20	21S	27E	Eddy	32.4703971	104.2120798	8,927'	11,371'
PPP3	PPP3: 861' FNL & 1237' FWL (Sec 19)	NMNM0375257	SWNW	19	21S	27E	Eddy	32.4701132	104.2334751	8,831'	17,970'
BHL	BHL: 830' FNL & 100' FWL (Sec 19)	NMNM0375257	SWNW	19	21S	27E	Eddy	32.4700640	104.2371564	8,814'	19,106'

GEOLOGY

Formation	Est. Top (TVD)	Lithology	Mineral Resources	Formation	Est. Top (TVD)	Lithology	Mineral Resources
Rustler				Yeso			
Castile				Delaware (Lamar)	2703'	Limestone/Dolomite	Oil/Natural Gas
Salt Top	275'	Salt	None	Bell Canyon			
Salt Base	590'	Salt	None	Cherry Canyon			
Yates	740'	Sandstone	Oil/Natural Gas	Manzanita Marker			
Seven Rivers				Basal Brushy Canyon			
Queen				Bone Spring	5105'	Limestone	Oil/Natural Gas
Capitan	1090'	Limestone/Dolomite	Usable Water	1st Bone Spring	6462'	Sandstone	Oil/Natural Gas
Grayburg				2nd Bone Spring	7165'	Sandstone	Oil/Natural Gas
San Andres				3rd Bone Spring	8500'	Sandstone	Oil/Natural Gas
Glorietta				**Wolfcamp**	**8832'**	**Shale/Sandstone/Limestone**	**Oil/Natural Gas**

Casing Program Design A						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
Surface	17.5'	0'	0'	950'	950'	13.375" 48# H40 STC	1.53	3.43	7.06	11.86
Int	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.70	2.97	4.75	5.91
Production	8.75'	0'	0'	8426'	8270'	7" 26# P110 LTC	1.39	2.23	3.16	3.79
Liner	6.125'	8226'	8071'	19106'	8957'	4.5" 13.5# P110 LTC	1.64	1.91	2.30	2.87

All casing strings will be tested in accordance with 43 CFR Part 3172. 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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Design A - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft^3/sack	TOC/BOC	Volume, ft^3	% Excess	Slurry Description
13.375 in	LEAD	350	12.5	2.12	0' - 700'	750	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	700' - 950'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	170	12.5	2.12	1065' - 1984'	370	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1984' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	130	12.5	2.12	0' - 720'	280	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	720' - 1065'	0		Class C: Retarder
1st Stg 7 in	LEAD	90	12.5	2.12	5000' - 6020'	200	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	400	15.6	1.18	6020' - 8426'	472		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer
4.5 in	LEAD	700	13.5	1.85	8226' - 19106'	1300	25%	Class H: Salt, Gel, Fluid Loss, Retarder, Dispersant, Defoamer, Anti-

Pressure Control Equipment

BOP installed and tested before drilling hole, in:	Size, in	System Rated WP	Type		Tested to:	Rating Depth
12.25	13.375	5M	Annular	X	2500#/3500#	19,106'
		5M	Blind Ram	X	5000#	
			Pipe Ram	X		
			Double Ram			
			Other*			

*Specify if additional ram is utilized.

Equipment: Annular, Pipe Rams, Blind Rams, Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Variance Request: A variance is requested for the use of a flexible choke line from the BOP to the choke manifold. See attached for hydrostatic test chart. Anchors are not required by manufacturer. Variance is requested to use a multi bowl wellhead. Variance is requested to perform break testing according to attached procedure. If a breaktesting variance is approved & incorporated, API Standard 53 will be incorporated and testing annular BOP to 70% of RWP or 100% of MASP, whichever is greater, will be performed.

Testing Procedure: BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets.

Y	Formation integrity test will be performed per 43 CFR Part 3172. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3172.
N	Mewbourne Oil Company request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack.

Mud Program

Depth (MD)	Mud Wt., lb/gal	Mud Type
		0
0' - 950'	10.2 - 10.4	Brine
950' - 2650'	8.4 - 8.6	Fresh Water
2650' - 8426'	9.5 - 10.2	Cut-Brine
8426' - 19106'	10 - 11.5	OBM

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, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Logging and Testing Procedures

Logging, Coring and Testing.	
N	Will run GR/CNL from KOP (8426') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Y	No logs are planned based on well control or offset log information. Offset Well: Canal 20/19 Fed Com #851H
N	Coring? If yes, explain:

Open & Cased Hole Logs Run In the Well

☐	Caliper	☐	Cement Bond Log	☐	CNL/FDC
☐	Compensated Densilog	☐	Compensated Neutron Log	☐	Computer Generated Log
☐	Dip Meter Log	☑	**Directional Survey**	☐	Dual Induction/Microresistivity
☐	Dual Lateral Log/Microspherically Focused	☐	Electric Log	☐	Formation Density Compensated Log
☐	Gamma Ray Log	☑	**Measurement While Drilling**	☐	Mud Log/Geological Lithology Log
☐	Other	☐	Porosity-Resistivity Log	☐	Sidewall Neutron Log
☐	Sonic Log	☐	Spontaneous Potential Log	☐	Temperature Log

Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5356 psi
BH Temperature	165
Abnormal Temp, Pressure, or Geologic Hazards	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

	H2S is present
X	H2S Plan attached

Mewbourne Oil Company, Canal 20/19 Fed Com 714H
Sec 20, T21S, R27E
SHL: 220' FNL 305' FEL (Sec 20)
BHL: 830' FNL 100' FWL (Sec 19)

Other facets of operation

Mewbourne Oil Company also requests approval to implement Design B as described below. BLM will be notified of elected design.

Offline Cementing Variance: Variance is request to perform offline cementing according to the attached procedure.

Casing Program Design B						BLM Minimum Safety Factors	1.125	1.0	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet
String	Hole Size	Top MD	Top TVD	Bot MD	Bot TVD	Csg. Size	SF Collapse	SF Burst	SF Jt	SF Body
Surface	26'	0'	0'	800'	800'	20" 94# J55 LTC	1.23	4.97	9.53	15.55
Surface	26'	800'	800'	950'	950'	20" 133# J55 BTC	2.98	6.07	100.85	106.52
Int 1	17.5'	0'	0'	2050'	2050'	13.375" 48# H40 STC	1.53	3.43	7.06	11.86
Int 2	12.25'	0'	0'	2650'	2650'	9.625" 36# J55 LTC	1.70	2.97	4.75	5.91
Production	8.75'	0'	0'	8426'	8270'	7" 26# P110 LTC	1.39	2.23	3.16	3.79
Liner	6.125'	8226'	8071'	19106'	8957'	4.5" 13.5# P110 LTC	1.64	1.91	2.30	2.87

All casing strings will be tested in accordance with 43 CFR Part 3172. 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?	Y
If yes, does production casing cement tie back a minimum of 50' above the Reef?	Y
Is well within the designated 4 string boundary.	Y
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 an open annulus used to satisfy R-111-Q? If yes, see cement design.	
Is an engineered weak point used to satisfy R-111-Q?	
If yes, at what depth is the weak point planned?	
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?	

Design B - Cement Program

Csg. Size		# Sacks	Wt., lb/gal	Yield, ft³/sack	TOC/BOC	Volume, ft³	% Excess	Slurry Description
20.000 in	LEAD	1230	12.5	2.12	0' - 861'	2610	100%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	861' - 950'	268		Class C: Retarder
13.375 in	LEAD	880	12.5	2.12	0' - 1793'	1870	50%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1793' - 2050'	268		Class C: Retarder
1st Stg 9.625 in	LEAD	170	12.5	2.12	1065' - 1984'	370	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	200	14.8	1.34	1984' - 2650'	268		Class C: Retarder
9 5/8" DV Tool @ 1065'								
2nd Stg 9.625 in	LEAD	120	12.5	2.12	0' - 703'	260	25%	Class C: Salt, Gel, Extender, LCM
	TAIL	100	14.8	1.34	703' - 1065'	0		Class C: Retarder
1st Stg 7 in	LEAD	200	12.5	2.12	5000' - 7212'	430	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	200	15.6	1.18	7212' - 8426'	236		Class H: Retarder, Fluid Loss, Defoamer
7" DV Tool @ 5000'								
2nd Stg 7 in	LEAD	360	12.5	2.12	0' - 4259'	770	25%	Class C: Salt, Gel, Extender, LCM, Defoamer
	TAIL	100	14.8	1.34	4259' - 5000'	134		Class C: Retarder, Fluid Loss, Defoamer

Mewbourne Oil Company

Eddy County, New Mexico NAD 83
Canal 20/19 Fed Com #714H _ MOVE
Sec 20, T21S, R27E
SHL: 220' FNL & 305' FEL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)

Plan: Design #1

Standard Planning Report

29 July, 2025

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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 Canal 20/19 Fed Com #714H _ MOVE

Site Position:		**Northing:**	535,536.50 usft	**Latitude:**	32.4721871
From:	Map	**Easting:**	581,053.00 usft	**Longitude:**	-104.2045495
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "		

Well Sec 20, T21S, R27E

Well Position	**+N/-S**	0.0 usft	**Northing:**	535,536.50 usft	**Latitude:**	32.4721871
	+E/-W	0.0 usft	**Easting:**	581,053.00 usft	**Longitude:**	-104.2045495
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	3,247.0 usft	**Ground Level:**	3,219.0 usft
Grid Convergence:		0.07 °				

Wellbore BHL: 830' FNL & 100' FWL (Sec 19)

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.46	60.22	48,318.80131557

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	265.55

Plan Survey Tool Program **Date** 7/29/2025

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,105.9	Design #1 (BHL: 830' FNL & 100'		

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	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,064.2	7.28	154.28	3,063.3	-20.8	10.0	2.00	2.00	0.00	154.28	
8,062.1	7.28	154.28	8,020.7	-591.8	285.1	0.00	0.00	0.00	0.00	
8,426.3	0.00	0.00	8,384.0	-612.6	295.1	2.00	-2.00	0.00	180.00	KOP: 830' FNL & 10' I
9,334.9	90.84	269.06	8,957.0	-622.2	-286.3	10.00	10.00	0.00	-90.94	
19,105.9	90.84	269.06	8,814.0	-783.0	-10,054.9	0.00	0.00	0.00	0.00	BHL: 830' FNL & 100'

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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: 220' FNL & 305' FEL (Sec 20)									
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
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	2.00	154.28	2,800.0	-1.6	0.8	-0.6	2.00	2.00	0.00
2,900.0	4.00	154.28	2,899.8	-6.3	3.0	-2.5	2.00	2.00	0.00
3,000.0	6.00	154.28	2,999.5	-14.1	6.8	-5.7	2.00	2.00	0.00
3,064.2	7.28	154.28	3,063.3	-20.8	10.0	-8.4	2.00	2.00	0.00
3,100.0	7.28	154.28	3,098.7	-24.9	12.0	-10.0	0.00	0.00	0.00
3,200.0	7.28	154.28	3,197.9	-36.3	17.5	-14.6	0.00	0.00	0.00
3,300.0	7.28	154.28	3,297.1	-47.8	23.0	-19.2	0.00	0.00	0.00
3,400.0	7.28	154.28	3,396.3	-59.2	28.5	-23.8	0.00	0.00	0.00
3,500.0	7.28	154.28	3,495.5	-70.6	34.0	-28.4	0.00	0.00	0.00
3,600.0	7.28	154.28	3,594.7	-82.0	39.5	-33.0	0.00	0.00	0.00
3,700.0	7.28	154.28	3,693.9	-93.5	45.0	-37.6	0.00	0.00	0.00
3,800.0	7.28	154.28	3,793.1	-104.9	50.5	-42.2	0.00	0.00	0.00
3,900.0	7.28	154.28	3,892.3	-116.3	56.0	-46.8	0.00	0.00	0.00
4,000.0	7.28	154.28	3,991.5	-127.7	61.5	-51.4	0.00	0.00	0.00
4,100.0	7.28	154.28	4,090.7	-139.2	67.0	-56.0	0.00	0.00	0.00
4,200.0	7.28	154.28	4,189.9	-150.6	72.5	-60.6	0.00	0.00	0.00
4,300.0	7.28	154.28	4,289.0	-162.0	78.0	-65.2	0.00	0.00	0.00
4,400.0	7.28	154.28	4,388.2	-173.4	83.5	-69.8	0.00	0.00	0.00
4,500.0	7.28	154.28	4,487.4	-184.8	89.0	-74.4	0.00	0.00	0.00
4,600.0	7.28	154.28	4,586.6	-196.3	94.5	-79.0	0.00	0.00	0.00
4,700.0	7.28	154.28	4,685.8	-207.7	100.1	-83.6	0.00	0.00	0.00
4,800.0	7.28	154.28	4,785.0	-219.1	105.6	-88.2	0.00	0.00	0.00
4,900.0	7.28	154.28	4,884.2	-230.5	111.1	-92.8	0.00	0.00	0.00
5,000.0	7.28	154.28	4,983.4	-242.0	116.6	-97.4	0.00	0.00	0.00
5,100.0	7.28	154.28	5,082.6	-253.4	122.1	-102.0	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
5,200.0	7.28	154.28	5,181.8	-264.8	127.6	-106.6	0.00	0.00	0.00
5,300.0	7.28	154.28	5,281.0	-276.2	133.1	-111.2	0.00	0.00	0.00
5,400.0	7.28	154.28	5,380.2	-287.7	138.6	-115.8	0.00	0.00	0.00
5,500.0	7.28	154.28	5,479.4	-299.1	144.1	-120.4	0.00	0.00	0.00
5,600.0	7.28	154.28	5,578.6	-310.5	149.6	-125.0	0.00	0.00	0.00
5,700.0	7.28	154.28	5,677.7	-321.9	155.1	-129.6	0.00	0.00	0.00
5,800.0	7.28	154.28	5,776.9	-333.4	160.6	-134.2	0.00	0.00	0.00
5,900.0	7.28	154.28	5,876.1	-344.8	166.1	-138.8	0.00	0.00	0.00
6,000.0	7.28	154.28	5,975.3	-356.2	171.6	-143.4	0.00	0.00	0.00
6,100.0	7.28	154.28	6,074.5	-367.6	177.1	-148.0	0.00	0.00	0.00
6,200.0	7.28	154.28	6,173.7	-379.1	182.6	-152.6	0.00	0.00	0.00
6,300.0	7.28	154.28	6,272.9	-390.5	188.1	-157.2	0.00	0.00	0.00
6,400.0	7.28	154.28	6,372.1	-401.9	193.6	-161.8	0.00	0.00	0.00
6,500.0	7.28	154.28	6,471.3	-413.3	199.1	-166.4	0.00	0.00	0.00
6,600.0	7.28	154.28	6,570.5	-424.7	204.6	-171.0	0.00	0.00	0.00
6,700.0	7.28	154.28	6,669.7	-436.2	210.1	-175.6	0.00	0.00	0.00
6,800.0	7.28	154.28	6,768.9	-447.6	215.6	-180.2	0.00	0.00	0.00
6,900.0	7.28	154.28	6,868.1	-459.0	221.1	-184.8	0.00	0.00	0.00
7,000.0	7.28	154.28	6,967.3	-470.4	226.6	-189.4	0.00	0.00	0.00
7,100.0	7.28	154.28	7,066.4	-481.9	232.1	-194.0	0.00	0.00	0.00
7,200.0	7.28	154.28	7,165.6	-493.3	237.6	-198.6	0.00	0.00	0.00
7,300.0	7.28	154.28	7,264.8	-504.7	243.1	-203.2	0.00	0.00	0.00
7,400.0	7.28	154.28	7,364.0	-516.1	248.6	-207.8	0.00	0.00	0.00
7,500.0	7.28	154.28	7,463.2	-527.6	254.1	-212.4	0.00	0.00	0.00
7,600.0	7.28	154.28	7,562.4	-539.0	259.6	-217.0	0.00	0.00	0.00
7,700.0	7.28	154.28	7,661.6	-550.4	265.1	-221.6	0.00	0.00	0.00
7,800.0	7.28	154.28	7,760.8	-561.8	270.6	-226.2	0.00	0.00	0.00
7,900.0	7.28	154.28	7,860.0	-573.3	276.1	-230.8	0.00	0.00	0.00
8,000.0	7.28	154.28	7,959.2	-584.7	281.6	-235.4	0.00	0.00	0.00
8,062.1	7.28	154.28	8,020.7	-591.8	285.1	-238.3	0.00	0.00	0.00
8,100.0	6.53	154.28	8,058.4	-595.9	287.0	-239.9	2.00	-2.00	0.00
8,200.0	4.53	154.28	8,157.9	-604.6	291.2	-243.4	2.00	-2.00	0.00
8,300.0	2.53	154.28	8,257.7	-610.1	293.9	-245.6	2.00	-2.00	0.00
8,400.0	0.53	154.28	8,357.7	-612.5	295.0	-246.6	2.00	-2.00	0.00
8,426.3	0.00	0.00	8,384.0	-612.6	295.1	-246.6	2.00	-2.00	0.00
KOP: 830' FNL & 10' FEL (Sec 20)									
8,450.0	2.37	269.06	8,407.7	-612.6	294.6	-246.2	10.00	10.00	0.00
8,500.0	7.37	269.06	8,457.5	-612.7	290.4	-241.9	10.00	10.00	0.00
8,550.0	12.37	269.06	8,506.7	-612.8	281.8	-233.4	10.00	10.00	0.00
8,600.0	17.37	269.06	8,555.1	-613.0	269.0	-220.6	10.00	10.00	0.00
8,650.0	22.37	269.06	8,602.1	-613.3	252.0	-203.6	10.00	10.00	0.00
8,700.0	27.36	269.06	8,647.4	-613.7	231.0	-182.6	10.00	10.00	0.00
8,750.0	32.36	269.06	8,690.8	-614.1	206.1	-157.8	10.00	10.00	0.00
8,751.9	32.55	269.06	8,692.3	-614.1	205.1	-156.8	10.00	10.00	0.00
FTP: 830' FNL & 100' FEL (Sec 20)									
8,800.0	37.36	269.06	8,731.8	-614.5	177.5	-129.3	10.00	10.00	0.00
8,850.0	42.36	269.06	8,770.1	-615.1	145.5	-97.3	10.00	10.00	0.00
8,900.0	47.36	269.06	8,805.6	-615.6	110.2	-62.1	10.00	10.00	0.00
8,950.0	52.36	269.06	8,837.8	-616.3	72.0	-24.0	10.00	10.00	0.00
9,000.0	57.36	269.06	8,866.6	-616.9	31.2	16.8	10.00	10.00	0.00
9,050.0	62.36	269.06	8,891.7	-617.7	-12.1	60.0	10.00	10.00	0.00
9,100.0	67.36	269.06	8,912.9	-618.4	-57.3	105.1	10.00	10.00	0.00
9,150.0	72.36	269.06	8,930.1	-619.2	-104.2	152.0	10.00	10.00	0.00
9,200.0	77.36	269.06	8,943.2	-620.0	-152.5	200.1	10.00	10.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
9,250.0	82.35	269.06	8,952.0	-620.8	-201.7	249.2	10.00	10.00	0.00
9,300.0	87.35	269.06	8,956.5	-621.6	-251.4	298.9	10.00	10.00	0.00
9,334.9	90.84	269.06	8,957.0	-622.2	-286.3	333.7	10.00	10.00	0.00
LP: 830' FNL & 583' FEL (Sec 20)									
9,400.0	90.84	269.06	8,956.0	-623.2	-351.4	398.7	0.00	0.00	0.00
9,500.0	90.84	269.06	8,954.6	-624.9	-451.4	498.5	0.00	0.00	0.00
9,600.0	90.84	269.06	8,953.1	-626.5	-551.4	598.3	0.00	0.00	0.00
9,700.0	90.84	269.06	8,951.7	-628.2	-651.3	698.1	0.00	0.00	0.00
9,800.0	90.84	269.06	8,950.2	-629.8	-751.3	797.9	0.00	0.00	0.00
9,900.0	90.84	269.06	8,948.7	-631.5	-851.3	897.7	0.00	0.00	0.00
10,000.0	90.84	269.06	8,947.3	-633.1	-951.3	997.5	0.00	0.00	0.00
10,100.0	90.84	269.06	8,945.8	-634.8	-1,051.2	1,097.3	0.00	0.00	0.00
10,200.0	90.84	269.06	8,944.3	-636.4	-1,151.2	1,197.1	0.00	0.00	0.00
10,300.0	90.84	269.06	8,942.9	-638.1	-1,251.2	1,296.9	0.00	0.00	0.00
10,400.0	90.84	269.06	8,941.4	-639.7	-1,351.2	1,396.7	0.00	0.00	0.00
10,500.0	90.84	269.06	8,939.9	-641.3	-1,451.1	1,496.5	0.00	0.00	0.00
10,600.0	90.84	269.06	8,938.5	-643.0	-1,551.1	1,596.3	0.00	0.00	0.00
10,700.0	90.84	269.06	8,937.0	-644.6	-1,651.1	1,696.2	0.00	0.00	0.00
10,800.0	90.84	269.06	8,935.6	-646.3	-1,751.1	1,796.0	0.00	0.00	0.00
10,900.0	90.84	269.06	8,934.1	-647.9	-1,851.0	1,895.8	0.00	0.00	0.00
11,000.0	90.84	269.06	8,932.6	-649.6	-1,951.0	1,995.6	0.00	0.00	0.00
11,100.0	90.84	269.06	8,931.2	-651.2	-2,051.0	2,095.4	0.00	0.00	0.00
11,200.0	90.84	269.06	8,929.7	-652.9	-2,151.0	2,195.2	0.00	0.00	0.00
11,300.0	90.84	269.06	8,928.2	-654.5	-2,250.9	2,295.0	0.00	0.00	0.00
11,370.6	90.84	269.06	8,927.2	-655.7	-2,321.5	2,365.4	0.00	0.00	0.00
PPP2: 897' FNL & 2627' FWL (Sec 20)									
11,400.0	90.84	269.06	8,926.8	-656.2	-2,350.9	2,394.8	0.00	0.00	0.00
11,500.0	90.84	269.06	8,925.3	-657.8	-2,450.9	2,494.6	0.00	0.00	0.00
11,600.0	90.84	269.06	8,923.8	-659.5	-2,550.9	2,594.4	0.00	0.00	0.00
11,700.0	90.84	269.06	8,922.4	-661.1	-2,650.8	2,694.2	0.00	0.00	0.00
11,800.0	90.84	269.06	8,920.9	-662.7	-2,750.8	2,794.0	0.00	0.00	0.00
11,900.0	90.84	269.06	8,919.5	-664.4	-2,850.8	2,893.8	0.00	0.00	0.00
12,000.0	90.84	269.06	8,918.0	-666.0	-2,950.8	2,993.6	0.00	0.00	0.00
12,100.0	90.84	269.06	8,916.5	-667.7	-3,050.7	3,093.4	0.00	0.00	0.00
12,200.0	90.84	269.06	8,915.1	-669.3	-3,150.7	3,193.2	0.00	0.00	0.00
12,300.0	90.84	269.06	8,913.6	-671.0	-3,250.7	3,293.0	0.00	0.00	0.00
12,400.0	90.84	269.06	8,912.1	-672.6	-3,350.7	3,392.8	0.00	0.00	0.00
12,500.0	90.84	269.06	8,910.7	-674.3	-3,450.6	3,492.6	0.00	0.00	0.00
12,600.0	90.84	269.06	8,909.2	-675.9	-3,550.6	3,592.4	0.00	0.00	0.00
12,700.0	90.84	269.06	8,907.8	-677.6	-3,650.6	3,692.2	0.00	0.00	0.00
12,800.0	90.84	269.06	8,906.3	-679.2	-3,750.6	3,792.0	0.00	0.00	0.00
12,900.0	90.84	269.06	8,904.8	-680.9	-3,850.6	3,891.8	0.00	0.00	0.00
13,000.0	90.84	269.06	8,903.4	-682.5	-3,950.5	3,991.6	0.00	0.00	0.00
13,100.0	90.84	269.06	8,901.9	-684.1	-4,050.5	4,091.4	0.00	0.00	0.00
13,200.0	90.84	269.06	8,900.4	-685.8	-4,150.5	4,191.2	0.00	0.00	0.00
13,300.0	90.84	269.06	8,899.0	-687.4	-4,250.5	4,291.0	0.00	0.00	0.00
13,400.0	90.84	269.06	8,897.5	-689.1	-4,350.4	4,390.8	0.00	0.00	0.00
13,500.0	90.84	269.06	8,896.0	-690.7	-4,450.4	4,490.6	0.00	0.00	0.00
13,600.0	90.84	269.06	8,894.6	-692.4	-4,550.4	4,590.4	0.00	0.00	0.00
13,700.0	90.84	269.06	8,893.1	-694.0	-4,650.4	4,690.2	0.00	0.00	0.00
13,800.0	90.84	269.06	8,891.7	-695.7	-4,750.3	4,790.0	0.00	0.00	0.00
13,900.0	90.84	269.06	8,890.2	-697.3	-4,850.3	4,889.8	0.00	0.00	0.00
14,000.0	90.84	269.06	8,888.7	-699.0	-4,950.3	4,989.6	0.00	0.00	0.00

Planning Report

Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
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)
14,100.0	90.84	269.06	8,887.3	-700.6	-5,050.3	5,089.4	0.00	0.00	0.00
14,200.0	90.84	269.06	8,885.8	-702.3	-5,150.2	5,189.2	0.00	0.00	0.00
14,300.0	90.84	269.06	8,884.3	-703.9	-5,250.2	5,289.0	0.00	0.00	0.00
14,400.0	90.84	269.06	8,882.9	-705.5	-5,350.2	5,388.8	0.00	0.00	0.00
14,500.0	90.84	269.06	8,881.4	-707.2	-5,450.2	5,488.6	0.00	0.00	0.00
14,600.0	90.84	269.06	8,879.9	-708.8	-5,550.1	5,588.4	0.00	0.00	0.00
14,700.0	90.84	269.06	8,878.5	-710.5	-5,650.1	5,688.2	0.00	0.00	0.00
14,800.0	90.84	269.06	8,877.0	-712.1	-5,750.1	5,788.0	0.00	0.00	0.00
14,900.0	90.84	269.06	8,875.6	-713.8	-5,850.1	5,887.8	0.00	0.00	0.00
15,000.0	90.84	269.06	8,874.1	-715.4	-5,950.0	5,987.6	0.00	0.00	0.00
15,100.0	90.84	269.06	8,872.6	-717.1	-6,050.0	6,087.4	0.00	0.00	0.00
15,200.0	90.84	269.06	8,871.2	-718.7	-6,150.0	6,187.2	0.00	0.00	0.00
15,300.0	90.84	269.06	8,869.7	-720.4	-6,250.0	6,287.0	0.00	0.00	0.00
15,400.0	90.84	269.06	8,868.2	-722.0	-6,349.9	6,386.8	0.00	0.00	0.00
15,500.0	90.84	269.06	8,866.8	-723.6	-6,449.9	6,486.6	0.00	0.00	0.00
15,600.0	90.84	269.06	8,865.3	-725.3	-6,549.9	6,586.4	0.00	0.00	0.00
15,700.0	90.84	269.06	8,863.8	-726.9	-6,649.9	6,686.2	0.00	0.00	0.00
15,800.0	90.84	269.06	8,862.4	-728.6	-6,749.8	6,786.0	0.00	0.00	0.00
15,900.0	90.84	269.06	8,860.9	-730.2	-6,849.8	6,885.8	0.00	0.00	0.00
16,000.0	90.84	269.06	8,859.5	-731.9	-6,949.8	6,985.6	0.00	0.00	0.00
16,100.0	90.84	269.06	8,858.0	-733.5	-7,049.8	7,085.4	0.00	0.00	0.00
16,200.0	90.84	269.06	8,856.5	-735.2	-7,149.8	7,185.2	0.00	0.00	0.00
16,300.0	90.84	269.06	8,855.1	-736.8	-7,249.7	7,285.1	0.00	0.00	0.00
16,400.0	90.84	269.06	8,853.6	-738.5	-7,349.7	7,384.9	0.00	0.00	0.00
16,500.0	90.84	269.06	8,852.1	-740.1	-7,449.7	7,484.7	0.00	0.00	0.00
16,600.0	90.84	269.06	8,850.7	-741.8	-7,549.7	7,584.5	0.00	0.00	0.00
16,700.0	90.84	269.06	8,849.2	-743.4	-7,649.6	7,684.3	0.00	0.00	0.00
16,800.0	90.84	269.06	8,847.7	-745.0	-7,749.6	7,784.1	0.00	0.00	0.00
16,900.0	90.84	269.06	8,846.3	-746.7	-7,849.6	7,883.9	0.00	0.00	0.00
17,000.0	90.84	269.06	8,844.8	-748.3	-7,949.6	7,983.7	0.00	0.00	0.00
17,100.0	90.84	269.06	8,843.4	-750.0	-8,049.5	8,083.5	0.00	0.00	0.00
17,200.0	90.84	269.06	8,841.9	-751.6	-8,149.5	8,183.3	0.00	0.00	0.00
17,300.0	90.84	269.06	8,840.4	-753.3	-8,249.5	8,283.1	0.00	0.00	0.00
17,400.0	90.84	269.06	8,839.0	-754.9	-8,349.5	8,382.9	0.00	0.00	0.00
17,500.0	90.84	269.06	8,837.5	-756.6	-8,449.4	8,482.7	0.00	0.00	0.00
17,600.0	90.84	269.06	8,836.0	-758.2	-8,549.4	8,582.5	0.00	0.00	0.00
17,700.0	90.84	269.06	8,834.6	-759.9	-8,649.4	8,682.3	0.00	0.00	0.00
17,800.0	90.84	269.06	8,833.1	-761.5	-8,749.4	8,782.1	0.00	0.00	0.00
17,900.0	90.84	269.06	8,831.6	-763.2	-8,849.3	8,881.9	0.00	0.00	0.00
17,970.3	90.84	269.06	8,830.6	-764.3	-8,919.6	8,952.0	0.00	0.00	0.00
PPP3: 861' FNL & 1237' FWL (Sec 19)									
18,000.0	90.84	269.06	8,830.2	-764.8	-8,949.3	8,981.7	0.00	0.00	0.00
18,100.0	90.84	269.06	8,828.7	-766.4	-9,049.3	9,081.5	0.00	0.00	0.00
18,200.0	90.84	269.06	8,827.3	-768.1	-9,149.3	9,181.3	0.00	0.00	0.00
18,300.0	90.84	269.06	8,825.8	-769.7	-9,249.2	9,281.1	0.00	0.00	0.00
18,400.0	90.84	269.06	8,824.3	-771.4	-9,349.2	9,380.9	0.00	0.00	0.00
18,500.0	90.84	269.06	8,822.9	-773.0	-9,449.2	9,480.7	0.00	0.00	0.00
18,600.0	90.84	269.06	8,821.4	-774.7	-9,549.2	9,580.5	0.00	0.00	0.00
18,700.0	90.84	269.06	8,819.9	-776.3	-9,649.1	9,680.3	0.00	0.00	0.00
18,800.0	90.84	269.06	8,818.5	-778.0	-9,749.1	9,780.1	0.00	0.00	0.00
18,900.0	90.84	269.06	8,817.0	-779.6	-9,849.1	9,879.9	0.00	0.00	0.00
19,000.0	90.84	269.06	8,815.5	-781.3	-9,949.1	9,979.7	0.00	0.00	0.00
19,105.9	90.84	269.06	8,814.0	-783.0	-10,054.9	10,085.3	0.00	0.00	0.00
BHL: 830' FNL & 100' FWL (Sec 19)									

Planning Report

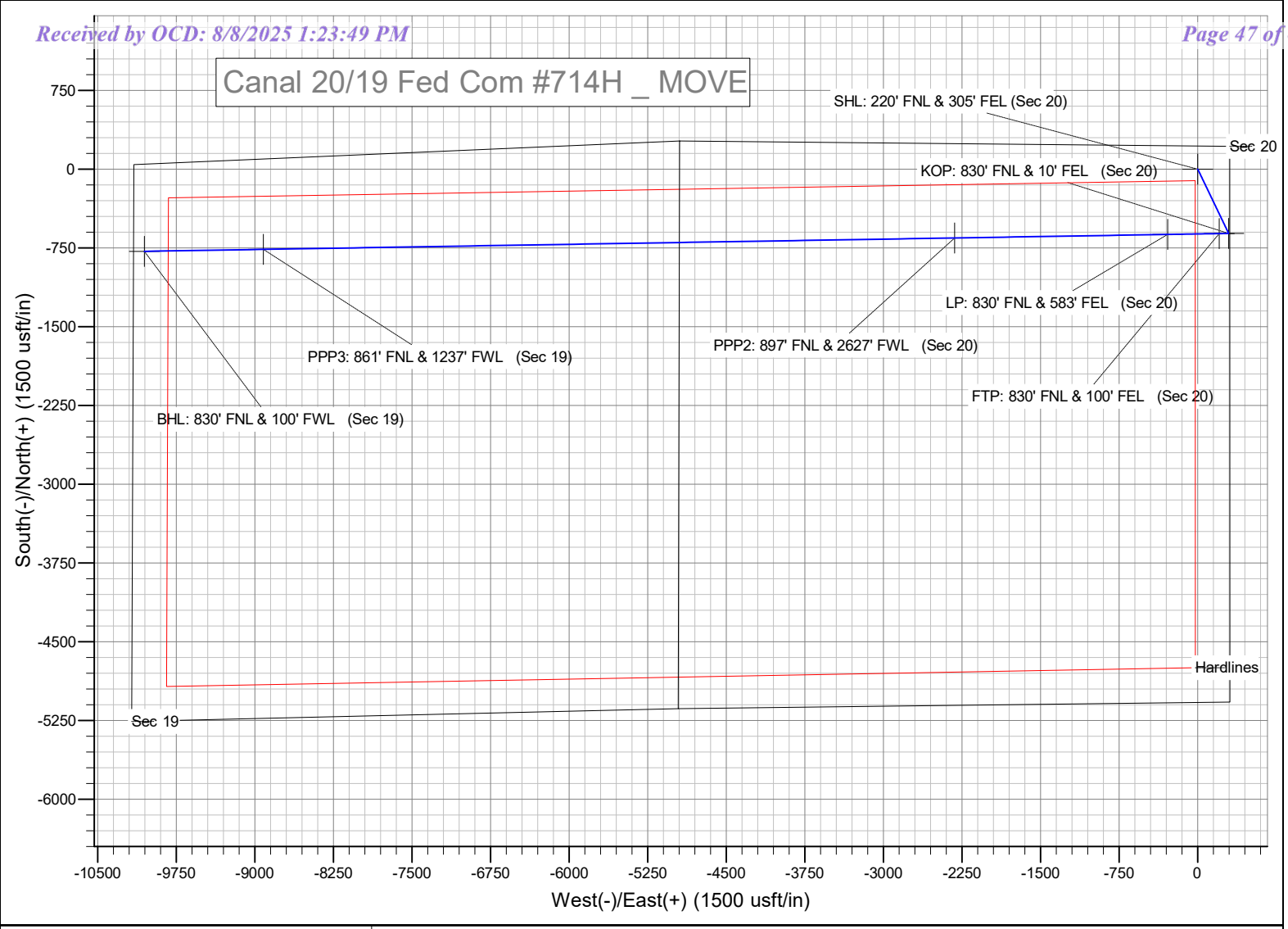
Database:	Hobbs	**Local Co-ordinate Reference:**	Site Canal 20/19 Fed Com #714H _ MOVE
Company:	Mewbourne Oil Company	**TVD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	**MD Reference:**	WELL @ 3247.0usft (Original Well Elev)
Site:	Canal 20/19 Fed Com #714H _ MOVE	**North Reference:**	Grid
Well:	Sec 20, T21S, R27E	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	BHL: 830' FNL & 100' FWL (Sec 19)		
Design:	Design #1		

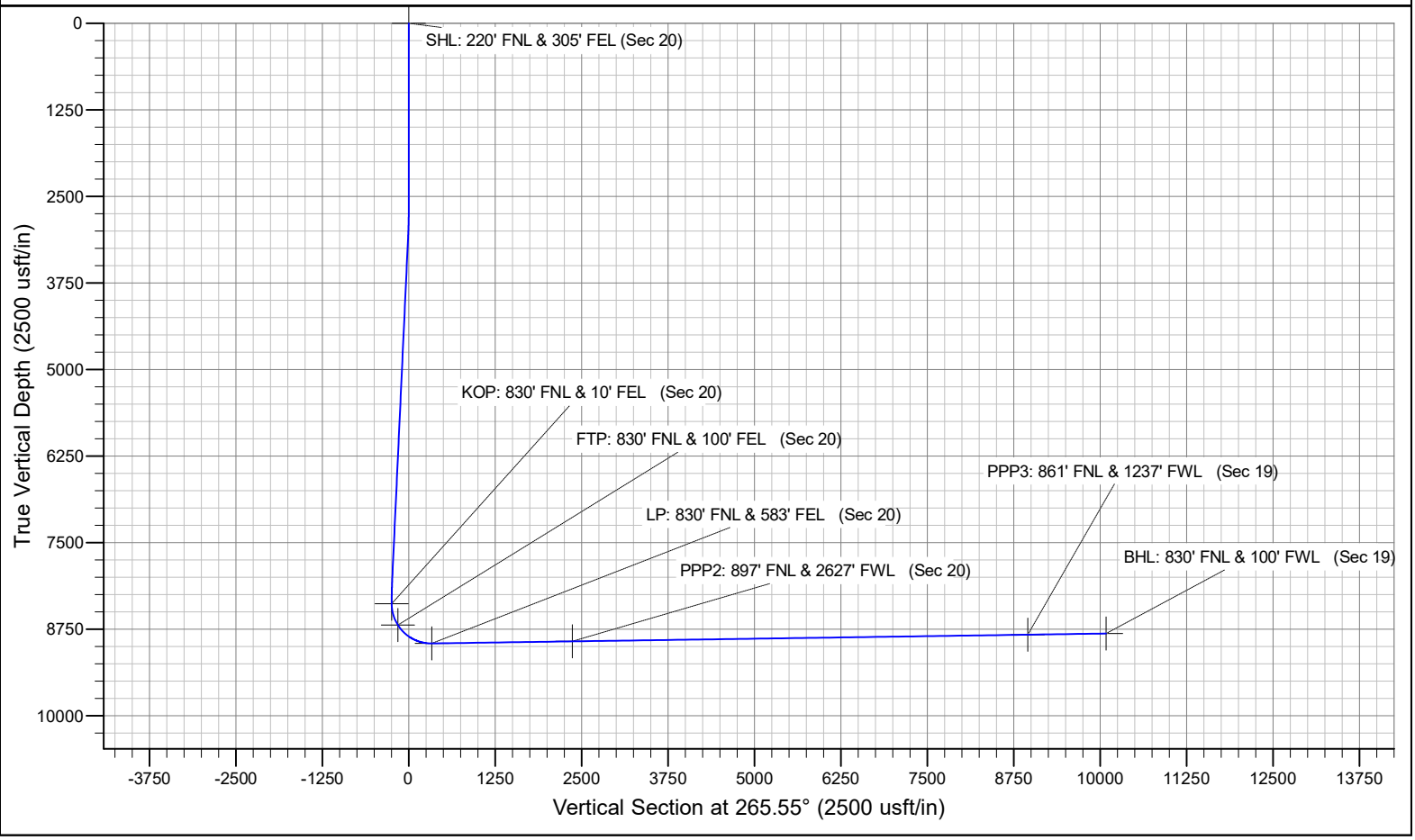
Planned Survey

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)

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: 220' FNL & 305' FE - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	535,536.50	581,053.00	32.4721871	-104.2045495
KOP: 830' FNL & 10' FE - plan hits target center - Point	0.00	0.00	8,384.0	-612.6	295.1	534,923.90	581,348.10	32.4705022	-104.2035951
FTP: 830' FNL & 100' FE - plan hits target center - Point	0.00	0.00	8,692.3	-614.1	205.1	534,922.42	581,258.10	32.4704985	-104.2038869
BHL: 830' FNL & 100' FV - plan hits target center - Point	0.00	0.00	8,814.0	-783.0	-10,054.9	534,753.50	570,998.10	32.4700639	-104.2371564
PPP3: 861' FNL & 1237' - plan hits target center - Point	0.00	0.00	8,830.6	-764.3	-8,919.6	534,772.19	572,133.40	32.4701125	-104.2334750
PPP2: 897' FNL & 2627' - plan hits target center - Point	0.00	0.00	8,927.2	-655.7	-2,321.5	534,880.82	578,731.50	32.4703923	-104.2120798
LP: 830' FNL & 583' FEL - plan hits target center - Point	0.00	0.00	8,957.0	-622.2	-286.3	534,914.33	580,766.73	32.4704778	-104.2054802


Canal 20/19 Fed Com #714H _ MOVE
SHL: 220' FNL & 305' FEL (Sec 20)
Sec 20
KOP: 830' FNL & 10' FEL (Sec 20)
LP: 830' FNL & 583' FEL (Sec 20)
PPP3: 861' FNL & 1237' FWL (Sec 19)
PPP2: 897' FNL & 2627' FWL (Sec 20)
FTP: 830' FNL & 100' FEL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)
Hardlines
Sec 19
South(-)/North(+) (1500 usft/in)
West(-)/East(+) (1500 usft/in)


SHL: 220' FNL & 305' FEL (Sec 20)
KOP: 830' FNL & 10' FEL (Sec 20)
FTP: 830' FNL & 100' FEL (Sec 20)
PPP3: 861' FNL & 1237' FWL (Sec 19)
LP: 830' FNL & 583' FEL (Sec 20)
PPP2: 897' FNL & 2627' FWL (Sec 20)
BHL: 830' FNL & 100' FWL (Sec 19)
True Vertical Depth (2500 usft/in)
Vertical Section at 265.55° (2500 usft/in)

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744
	Action Number: 493867
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	This well is within the Capitan Reef. The first intermediate casing string shall be sat and cemented back to surface immediately above the Capitan Reef. The second intermediate string shall be set and cemented back to surface immediately below the base of the Capitan Reef.	8/12/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	8/12/2025