

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101
August 1, 2011

Permit 288550

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241		2. OGRID Number 14744
		3. API Number 30-015-47680
4. Property Code 329798	5. Property Name LAYLA 35 W0NC FEE	6. Well No. 002H

7. Surface Location

UL - Lot N	Section 35	Township 23S	Range 28E	Lot Idn N	Feet From 225	N/S Line S	Feet From 1930	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot C	Section 35	Township 23S	Range 28E	Lot Idn C	Feet From 330	N/S Line N	Feet From 2230	E/W Line W	County Eddy
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9. Pool Information

PURPLE SAGE;WOLFCAMP (GAS)	98220
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Additional Well Information

11. Work Type New Well	12. Well Type GAS	13. Cable/Rotary	14. Lease Type Private	15. Ground Level Elevation 3015
16. Multiple N	17. Proposed Depth 14443	18. Formation Wolfcamp	19. Contractor	20. Spud Date 12/5/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	500	410	0
Int1	12.25	9.625	36	2545	540	0
Prod	8.75	7	26	9700	830	2245
Liner1	6.125	4.5	13.5	14443	210	9194

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Wolfcamp formation. H2S rule 118 does not apply because MOC has researched the area & no high concentrations were found. Will have on location & working all H2S safety equipment before Yates formation for safety & insurance purposes. Will stimulate as needed for production.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	Schaffer
Double Ram	5000	5000	Schaffer
Annular	5000	2500	Schaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

OIL CONSERVATION DIVISION

Signature:

Printed Name: Electronically filed by Monty Whetstone	Approved By: Kurt Simmons
Title: Vice President Operations	Title: Petroleum Specialist - A
Email Address: prodmgr@mewbourne.com	Approved Date: 11/13/2020 Expiration Date: 11/13/2022
Date: 11/6/2020 Phone: 903-561-2900	Conditions of Approval Attached

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name
	98220	PURPLE SAGE; WOLFCAMP GAS POOL
⁴ Property Code	⁵ Property Name	⁶ Well Number
	LAYLA 35 WONC FEE	2H
⁷ OGRID NO.	⁸ Operator Name	⁹ Elevation
14744	MEWBOURNE OIL COMPANY	3015'

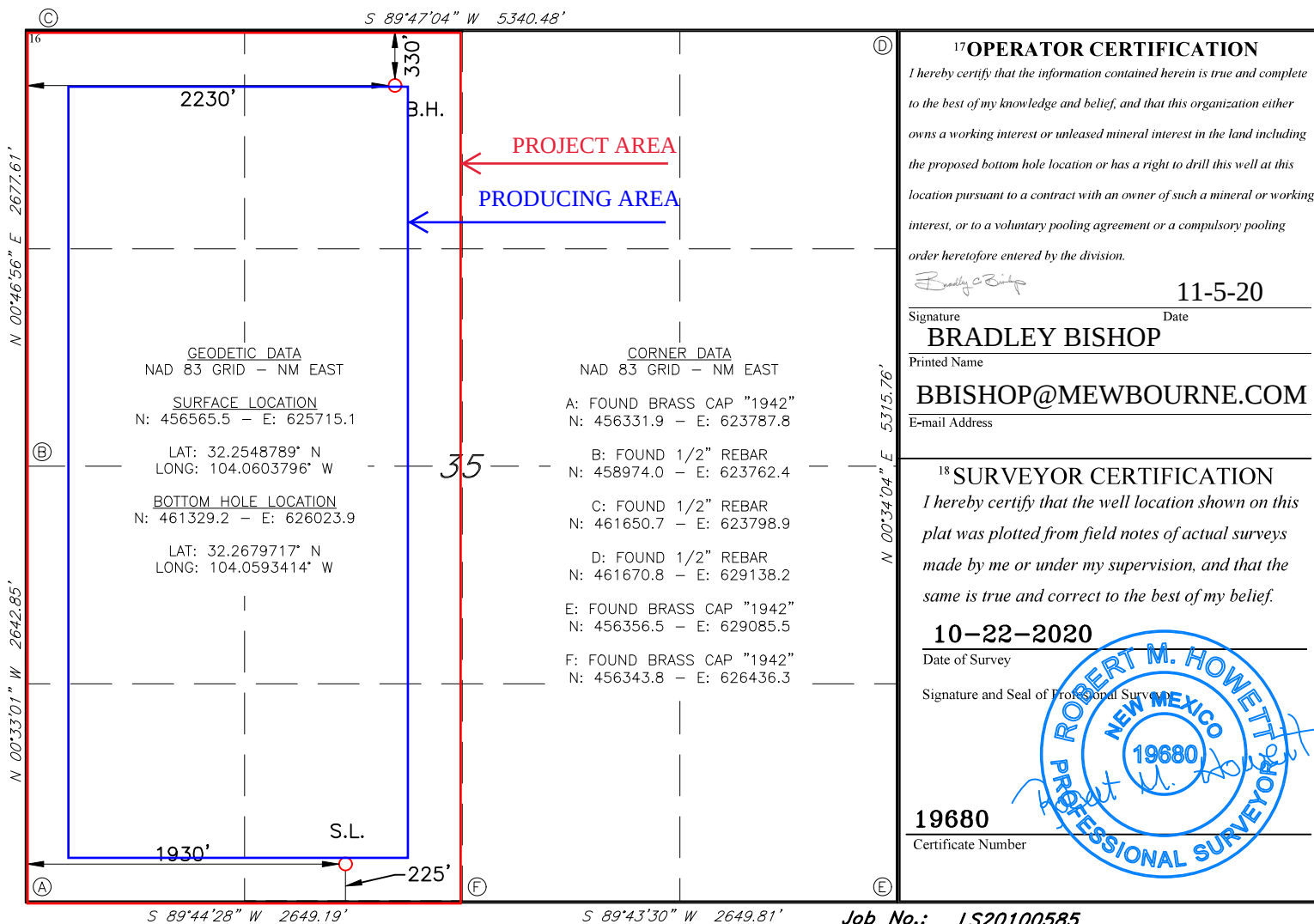
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
N	35	23S	28E		225	SOUTH	1930	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	35	23S	28E		330	NORTH	2230	WEST	EDDY
¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						
320									

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



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GAS CAPTURE PLAN

Date: 11/13/2020

☒ Original

Operator & OGRID No.: [14744] MEWBOURNE OIL CO

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
LAYLA 35 WONC FEE #002H	30-015-47680	N-35-23S-28E	0225S 1930W	10	None	ONLINE AFTER FRAC

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to CRESTWOOD NEW MEXICO PIPELINE LLC and will be connected to CRESTWOOD NEW MEXICO PIPELINE LLC Low Pressure gathering system located in Eddy County, New Mexico. It will require 3400' of pipeline to connect the facility to Low Pressure gathering system. MEWBOURNE OIL CO provides (periodically) to CRESTWOOD NEW MEXICO PIPELINE LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, MEWBOURNE OIL CO and CRESTWOOD NEW MEXICO PIPELINE LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at CRESTWOOD NEW MEXICO PIPELINE LLC Processing Plant located in Sec. 29, Twn. 24S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on CRESTWOOD NEW MEXICO PIPELINE LLC system at that time. Based on current information, it is MEWBOURNE OIL CO's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 288550

PERMIT COMMENTS

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241		API Number: 30-015-47680
		Well: LAYLA 35 W0NC FEE #002H

Created By	Comment	Comment Date
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Santa Fe, NM 87505

Form APD Conditions

Permit 288550

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-47680
	Well: LAYLA 35 W0NC FEE #002H

OCD Reviewer	Condition
kpickford	Will require a directional survey with the C-104
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud
kpickford	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Layla 35 W0NC Fee #2H

Sec 35, T23S, R28E

SHL: 225' FSL & 1930' FWL

BHL: 330' FNL & 2230' FWL

Plan: Design #1

Standard Planning Report

05 November, 2020

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Layla 35 W0NC Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3043.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3043.0usft (Original Well Elev)
Site:	Layla 35 W0NC Fee #2H	North Reference:	Grid
Well:	Sec 35, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2230' FWL		
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	Layla 35 W0NC Fee #2H				
Site Position:		Northing:	456,566.00 usft	Latitude:	32.2548804
From:	Map	Easting:	625,715.00 usft	Longitude:	-104.0603800
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.15 °

Well	Sec 35, T23S, R28E					
Well Position	+N/-S	0.0 usft	Northing:	456,566.00 usft	Latitude:	32.2548804
	+E/-W	0.0 usft	Easting:	625,715.00 usft	Longitude:	-104.0603800
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,043.0 usft	Ground Level:	3,015.0 usft

Wellbore	BHL: 330' FNL & 2230' FWL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.38	60.04	48,205

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	3.71

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	
500.0	0.00	0.00	500.0	0.0	0.0	0.00	0.00	0.00	0.00	
666.2	2.49	125.23	666.2	-2.1	3.0	1.50	1.50	0.00	125.23	
9,027.8	2.49	125.23	9,019.8	-211.9	300.0	0.00	0.00	0.00	0.00	
9,194.0	0.00	0.00	9,186.0	-214.0	303.0	1.50	-1.50	0.00	180.00	KOP: 10' FSL & 2230'
9,942.2	89.87	0.07	9,663.0	261.9	303.6	12.01	12.01	0.00	0.07	
14,443.3	89.87	0.07	9,673.0	4,763.0	309.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 2230'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Layla 35 W0NC Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3043.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3043.0usft (Original Well Elev)
Site:	Layla 35 W0NC Fee #2H	North Reference:	Grid
Well:	Sec 35, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2230' FWL		
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: 225' FSL & 1930' FWL									
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	1.50	125.23	600.0	-0.8	1.1	-0.7	1.50	1.50	0.00
666.2	2.49	125.23	666.2	-2.1	3.0	-1.9	1.50	1.50	0.00
700.0	2.49	125.23	699.9	-2.9	4.2	-2.7	0.00	0.00	0.00
800.0	2.49	125.23	799.8	-5.4	7.7	-4.9	0.00	0.00	0.00
900.0	2.49	125.23	899.7	-8.0	11.3	-7.2	0.00	0.00	0.00
1,000.0	2.49	125.23	999.6	-10.5	14.8	-9.5	0.00	0.00	0.00
1,100.0	2.49	125.23	1,099.5	-13.0	18.4	-11.8	0.00	0.00	0.00
1,200.0	2.49	125.23	1,199.4	-15.5	21.9	-14.0	0.00	0.00	0.00
1,300.0	2.49	125.23	1,299.3	-18.0	25.5	-16.3	0.00	0.00	0.00
1,400.0	2.49	125.23	1,399.3	-20.5	29.0	-18.6	0.00	0.00	0.00
1,500.0	2.49	125.23	1,499.2	-23.0	32.6	-20.9	0.00	0.00	0.00
1,600.0	2.49	125.23	1,599.1	-25.5	36.1	-23.1	0.00	0.00	0.00
1,700.0	2.49	125.23	1,699.0	-28.0	39.7	-25.4	0.00	0.00	0.00
1,800.0	2.49	125.23	1,798.9	-30.5	43.2	-27.7	0.00	0.00	0.00
1,900.0	2.49	125.23	1,898.8	-33.0	46.8	-29.9	0.00	0.00	0.00
2,000.0	2.49	125.23	1,998.7	-35.6	50.3	-32.2	0.00	0.00	0.00
2,100.0	2.49	125.23	2,098.6	-38.1	53.9	-34.5	0.00	0.00	0.00
2,200.0	2.49	125.23	2,198.5	-40.6	57.4	-36.8	0.00	0.00	0.00
2,300.0	2.49	125.23	2,298.4	-43.1	61.0	-39.0	0.00	0.00	0.00
2,400.0	2.49	125.23	2,398.3	-45.6	64.6	-41.3	0.00	0.00	0.00
2,500.0	2.49	125.23	2,498.2	-48.1	68.1	-43.6	0.00	0.00	0.00
2,600.0	2.49	125.23	2,598.1	-50.6	71.7	-45.9	0.00	0.00	0.00
2,700.0	2.49	125.23	2,698.0	-53.1	75.2	-48.1	0.00	0.00	0.00
2,800.0	2.49	125.23	2,797.9	-55.6	78.8	-50.4	0.00	0.00	0.00
2,900.0	2.49	125.23	2,897.8	-58.1	82.3	-52.7	0.00	0.00	0.00
3,000.0	2.49	125.23	2,997.7	-60.7	85.9	-55.0	0.00	0.00	0.00
3,100.0	2.49	125.23	3,097.6	-63.2	89.4	-57.2	0.00	0.00	0.00
3,200.0	2.49	125.23	3,197.5	-65.7	93.0	-59.5	0.00	0.00	0.00
3,300.0	2.49	125.23	3,297.5	-68.2	96.5	-61.8	0.00	0.00	0.00
3,400.0	2.49	125.23	3,397.4	-70.7	100.1	-64.1	0.00	0.00	0.00
3,500.0	2.49	125.23	3,497.3	-73.2	103.6	-66.3	0.00	0.00	0.00
3,600.0	2.49	125.23	3,597.2	-75.7	107.2	-68.6	0.00	0.00	0.00
3,700.0	2.49	125.23	3,697.1	-78.2	110.7	-70.9	0.00	0.00	0.00
3,800.0	2.49	125.23	3,797.0	-80.7	114.3	-73.2	0.00	0.00	0.00
3,900.0	2.49	125.23	3,896.9	-83.2	117.9	-75.4	0.00	0.00	0.00
4,000.0	2.49	125.23	3,996.8	-85.7	121.4	-77.7	0.00	0.00	0.00
4,100.0	2.49	125.23	4,096.7	-88.3	125.0	-80.0	0.00	0.00	0.00
4,200.0	2.49	125.23	4,196.6	-90.8	128.5	-82.3	0.00	0.00	0.00
4,300.0	2.49	125.23	4,296.5	-93.3	132.1	-84.5	0.00	0.00	0.00
4,400.0	2.49	125.23	4,396.4	-95.8	135.6	-86.8	0.00	0.00	0.00
4,500.0	2.49	125.23	4,496.3	-98.3	139.2	-89.1	0.00	0.00	0.00
4,600.0	2.49	125.23	4,596.2	-100.8	142.7	-91.4	0.00	0.00	0.00
4,700.0	2.49	125.23	4,696.1	-103.3	146.3	-93.6	0.00	0.00	0.00
4,800.0	2.49	125.23	4,796.0	-105.8	149.8	-95.9	0.00	0.00	0.00
4,900.0	2.49	125.23	4,895.9	-108.3	153.4	-98.2	0.00	0.00	0.00
5,000.0	2.49	125.23	4,995.8	-110.8	156.9	-100.4	0.00	0.00	0.00
5,100.0	2.49	125.23	5,095.8	-113.3	160.5	-102.7	0.00	0.00	0.00

Planning Report

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Wellbore:	BHL: 330' FNL & 2230' FWL		
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	2.49	125.23	5,195.7	-115.9	164.0	-105.0	0.00	0.00	0.00
5,300.0	2.49	125.23	5,295.6	-118.4	167.6	-107.3	0.00	0.00	0.00
5,400.0	2.49	125.23	5,395.5	-120.9	171.1	-109.5	0.00	0.00	0.00
5,500.0	2.49	125.23	5,495.4	-123.4	174.7	-111.8	0.00	0.00	0.00
5,600.0	2.49	125.23	5,595.3	-125.9	178.3	-114.1	0.00	0.00	0.00
5,700.0	2.49	125.23	5,695.2	-128.4	181.8	-116.4	0.00	0.00	0.00
5,800.0	2.49	125.23	5,795.1	-130.9	185.4	-118.6	0.00	0.00	0.00
5,900.0	2.49	125.23	5,895.0	-133.4	188.9	-120.9	0.00	0.00	0.00
6,000.0	2.49	125.23	5,994.9	-135.9	192.5	-123.2	0.00	0.00	0.00
6,100.0	2.49	125.23	6,094.8	-138.4	196.0	-125.5	0.00	0.00	0.00
6,200.0	2.49	125.23	6,194.7	-141.0	199.6	-127.7	0.00	0.00	0.00
6,300.0	2.49	125.23	6,294.6	-143.5	203.1	-130.0	0.00	0.00	0.00
6,400.0	2.49	125.23	6,394.5	-146.0	206.7	-132.3	0.00	0.00	0.00
6,500.0	2.49	125.23	6,494.4	-148.5	210.2	-134.6	0.00	0.00	0.00
6,600.0	2.49	125.23	6,594.3	-151.0	213.8	-136.8	0.00	0.00	0.00
6,700.0	2.49	125.23	6,694.2	-153.5	217.3	-139.1	0.00	0.00	0.00
6,800.0	2.49	125.23	6,794.1	-156.0	220.9	-141.4	0.00	0.00	0.00
6,900.0	2.49	125.23	6,894.0	-158.5	224.4	-143.7	0.00	0.00	0.00
7,000.0	2.49	125.23	6,994.0	-161.0	228.0	-145.9	0.00	0.00	0.00
7,100.0	2.49	125.23	7,093.9	-163.5	231.6	-148.2	0.00	0.00	0.00
7,200.0	2.49	125.23	7,193.8	-166.0	235.1	-150.5	0.00	0.00	0.00
7,300.0	2.49	125.23	7,293.7	-168.6	238.7	-152.8	0.00	0.00	0.00
7,400.0	2.49	125.23	7,393.6	-171.1	242.2	-155.0	0.00	0.00	0.00
7,500.0	2.49	125.23	7,493.5	-173.6	245.8	-157.3	0.00	0.00	0.00
7,600.0	2.49	125.23	7,593.4	-176.1	249.3	-159.6	0.00	0.00	0.00
7,700.0	2.49	125.23	7,693.3	-178.6	252.9	-161.8	0.00	0.00	0.00
7,800.0	2.49	125.23	7,793.2	-181.1	256.4	-164.1	0.00	0.00	0.00
7,900.0	2.49	125.23	7,893.1	-183.6	260.0	-166.4	0.00	0.00	0.00
8,000.0	2.49	125.23	7,993.0	-186.1	263.5	-168.7	0.00	0.00	0.00
8,100.0	2.49	125.23	8,092.9	-188.6	267.1	-170.9	0.00	0.00	0.00
8,200.0	2.49	125.23	8,192.8	-191.1	270.6	-173.2	0.00	0.00	0.00
8,300.0	2.49	125.23	8,292.7	-193.7	274.2	-175.5	0.00	0.00	0.00
8,400.0	2.49	125.23	8,392.6	-196.2	277.7	-177.8	0.00	0.00	0.00
8,500.0	2.49	125.23	8,492.5	-198.7	281.3	-180.0	0.00	0.00	0.00
8,600.0	2.49	125.23	8,592.4	-201.2	284.8	-182.3	0.00	0.00	0.00
8,700.0	2.49	125.23	8,692.3	-203.7	288.4	-184.6	0.00	0.00	0.00
8,800.0	2.49	125.23	8,792.2	-206.2	292.0	-186.9	0.00	0.00	0.00
8,900.0	2.49	125.23	8,892.2	-208.7	295.5	-189.1	0.00	0.00	0.00
9,000.0	2.49	125.23	8,992.1	-211.2	299.1	-191.4	0.00	0.00	0.00
9,027.8	2.49	125.23	9,019.8	-211.9	300.0	-192.0	0.00	0.00	0.00
9,100.0	1.41	125.23	9,092.0	-213.3	302.1	-193.3	1.50	-1.50	0.00
9,194.0	0.00	0.00	9,186.0	-214.0	303.0	-193.9	1.50	-1.50	0.00
KOP: 10' FSL & 2230' FWL									
9,200.0	0.72	0.07	9,192.0	-214.0	303.0	-193.9	12.01	12.01	0.00
9,300.0	12.73	0.07	9,291.1	-202.3	303.0	-182.2	12.01	12.01	0.00
9,400.0	24.74	0.07	9,385.6	-170.2	303.1	-150.2	12.01	12.01	0.00
9,500.0	36.75	0.07	9,471.4	-119.2	303.1	-99.3	12.01	12.01	0.00
9,600.0	48.77	0.07	9,544.7	-51.4	303.2	-31.7	12.01	12.01	0.00
9,700.0	60.78	0.07	9,602.3	30.1	303.3	49.7	12.01	12.01	0.00
9,780.2	70.41	0.07	9,635.4	103.0	303.4	122.5	12.01	12.01	0.00
FTP: 330' FSL & 2230' FWL									
9,800.0	72.79	0.07	9,641.6	121.9	303.4	141.2	12.01	12.01	0.00
9,900.0	84.80	0.07	9,661.0	219.8	303.5	239.0	12.01	12.01	0.00
9,942.2	89.87	0.07	9,663.0	261.9	303.6	281.0	12.01	12.01	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Layla 35 W0NC Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3043.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3043.0usft (Original Well Elev)
Site:	Layla 35 W0NC Fee #2H	North Reference:	Grid
Well:	Sec 35, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2230' FWL		
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)
LP: 487' FSL & 2230' FWL									
10,000.0	89.87	0.07	9,663.1	319.7	303.6	338.7	0.01	0.01	0.00
10,100.0	89.87	0.07	9,663.4	419.7	303.8	438.5	0.00	0.00	0.00
10,200.0	89.87	0.07	9,663.6	519.7	303.9	538.3	0.00	0.00	0.00
10,300.0	89.87	0.07	9,663.8	619.7	304.0	638.1	0.00	0.00	0.00
10,400.0	89.87	0.07	9,664.0	719.7	304.1	737.9	0.00	0.00	0.00
10,500.0	89.87	0.07	9,664.2	819.7	304.2	837.7	0.00	0.00	0.00
10,600.0	89.87	0.07	9,664.5	919.7	304.4	937.5	0.00	0.00	0.00
10,700.0	89.87	0.07	9,664.7	1,019.7	304.5	1,037.3	0.00	0.00	0.00
10,800.0	89.87	0.07	9,664.9	1,119.7	304.6	1,137.1	0.00	0.00	0.00
10,900.0	89.87	0.07	9,665.1	1,219.7	304.7	1,236.9	0.00	0.00	0.00
11,000.0	89.87	0.07	9,665.3	1,319.7	304.8	1,336.7	0.00	0.00	0.00
11,100.0	89.87	0.07	9,665.6	1,419.7	305.0	1,436.5	0.00	0.00	0.00
11,200.0	89.87	0.07	9,665.8	1,519.7	305.1	1,536.3	0.00	0.00	0.00
11,300.0	89.87	0.07	9,666.0	1,619.7	305.2	1,636.1	0.00	0.00	0.00
11,400.0	89.87	0.07	9,666.2	1,719.7	305.3	1,735.9	0.00	0.00	0.00
11,500.0	89.87	0.07	9,666.5	1,819.7	305.5	1,835.7	0.00	0.00	0.00
11,600.0	89.87	0.07	9,666.7	1,919.7	305.6	1,935.5	0.00	0.00	0.00
11,700.0	89.87	0.07	9,666.9	2,019.7	305.7	2,035.3	0.00	0.00	0.00
11,800.0	89.87	0.07	9,667.1	2,119.7	305.8	2,135.1	0.00	0.00	0.00
11,900.0	89.87	0.07	9,667.3	2,219.7	305.9	2,234.9	0.00	0.00	0.00
12,000.0	89.87	0.07	9,667.6	2,319.7	306.1	2,334.7	0.00	0.00	0.00
12,100.0	89.87	0.07	9,667.8	2,419.7	306.2	2,434.4	0.00	0.00	0.00
12,200.0	89.87	0.07	9,668.0	2,519.7	306.3	2,534.2	0.00	0.00	0.00
12,300.0	89.87	0.07	9,668.2	2,619.7	306.4	2,634.0	0.00	0.00	0.00
12,400.0	89.87	0.07	9,668.5	2,719.7	306.5	2,733.8	0.00	0.00	0.00
12,500.0	89.87	0.07	9,668.7	2,819.7	306.7	2,833.6	0.00	0.00	0.00
12,600.0	89.87	0.07	9,668.9	2,919.7	306.8	2,933.4	0.00	0.00	0.00
12,700.0	89.87	0.07	9,669.1	3,019.7	306.9	3,033.2	0.00	0.00	0.00
12,800.0	89.87	0.07	9,669.3	3,119.7	307.0	3,133.0	0.00	0.00	0.00
12,900.0	89.87	0.07	9,669.6	3,219.7	307.1	3,232.8	0.00	0.00	0.00
13,000.0	89.87	0.07	9,669.8	3,319.7	307.3	3,332.6	0.00	0.00	0.00
13,100.0	89.87	0.07	9,670.0	3,419.7	307.4	3,432.4	0.00	0.00	0.00
13,200.0	89.87	0.07	9,670.2	3,519.7	307.5	3,532.2	0.00	0.00	0.00
13,300.0	89.87	0.07	9,670.5	3,619.7	307.6	3,632.0	0.00	0.00	0.00
13,400.0	89.87	0.07	9,670.7	3,719.7	307.7	3,731.8	0.00	0.00	0.00
13,500.0	89.87	0.07	9,670.9	3,819.7	307.9	3,831.6	0.00	0.00	0.00
13,600.0	89.87	0.07	9,671.1	3,919.7	308.0	3,931.4	0.00	0.00	0.00
13,700.0	89.87	0.07	9,671.3	4,019.7	308.1	4,031.2	0.00	0.00	0.00
13,800.0	89.87	0.07	9,671.6	4,119.7	308.2	4,131.0	0.00	0.00	0.00
13,900.0	89.87	0.07	9,671.8	4,219.7	308.3	4,230.8	0.00	0.00	0.00
14,000.0	89.87	0.07	9,672.0	4,319.7	308.5	4,330.6	0.00	0.00	0.00
14,100.0	89.87	0.07	9,672.2	4,419.7	308.6	4,430.4	0.00	0.00	0.00
14,200.0	89.87	0.07	9,672.5	4,519.7	308.7	4,530.2	0.00	0.00	0.00
14,300.0	89.87	0.07	9,672.7	4,619.7	308.8	4,630.0	0.00	0.00	0.00
14,400.0	89.87	0.07	9,672.9	4,719.7	308.9	4,729.8	0.00	0.00	0.00
14,443.3	89.87	0.07	9,673.0	4,763.0	309.0	4,773.0	0.00	0.00	0.00
BHL: 330' FNL & 2230' FWL									

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Layla 35 W0NC Fee #2H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3043.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3043.0usft (Original Well Elev)
Site:	Layla 35 W0NC Fee #2H	North Reference:	Grid
Well:	Sec 35, T23S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 330' FNL & 2230' FWL		
Design:	Design #1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL: 225' FSL & 1930' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	456,566.00	625,715.00	32.2548804	-104.0603800
KOP: 10' FSL & 2230' F - plan hits target center - Point	0.00	0.00	9,186.0	-214.0	303.0	456,352.00	626,018.00	32.2542900	-104.0594016
FTP: 330' FSL & 2230' F - plan hits target center - Point	0.00	0.00	9,635.4	103.0	303.4	456,669.00	626,018.39	32.2551614	-104.0593978
LP: 487' FSL & 2230' FV - plan hits target center - Point	0.00	0.00	9,663.0	261.9	303.6	456,827.90	626,018.60	32.2555982	-104.0593958
BHL: 330' FNL & 2230' F - plan hits target center - Point	0.00	0.00	9,673.0	4,763.0	309.0	461,329.00	626,024.00	32.2679710	-104.0593411