

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 292726

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 30-015-48073
4. Property Code 330198	5. Property Name BOURBON RED 11 12 B3EH STATE COM	6. Well No. 001H

7. Surface Location

UL - Lot E	Section 11	Township 19S	Range 28E	Lot Idn E	Feet From 1350	N/S Line N	Feet From 206	E/W Line W	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot H	Section 12	Township 19S	Range 28E	Lot Idn H	Feet From 1900	N/S Line N	Feet From 100	E/W Line E	County Eddy
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9. Pool Information

PALMILLO;BONE SPRING, SOUTHWEST	96413
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3487
16. Multiple N	17. Proposed Depth 18762	18. Formation 3rd Bone Spring Sand	19. Contractor	20. Spud Date 3/15/2021
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	400	340	0
Int1	12.25	9.625	36	2800	590	0
Prod	8.75	7	26	9035	750	2600
Liner1	6.125	4.5	13.5	18762	420	8143

Casing/Cement Program: Additional Comments

MOC proposed to drill & test the Bone Springs 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	2000	1500	Schaffer
Double Ram	3000	3000	Schaffer
Annular	3000	1500	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

Title: Vice President Operations

Email Address: prodmgr@mewbourne.com

Date: 2/19/2021

Phone: 903-561-2900

Approved By: Kurt Simmons

Title: Petroleum Specialist - A

Approved Date: 2/23/2021

Expiration Date: 2/23/2023

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 PALMILLO BONE SPRING SW	
⁴ Property Code		⁵ Property Name BOURBON RED 11/12 B3EH STATE COM			⁶ Well Number 1H
⁷ OGRID NO. 14744		⁸ Operator Name MEWBOURNE OIL COMPANY			⁹ Elevation 3487'

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
E	11	19S	28E		1350	NORTH	205	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
H	12	19S	28E		1900	NORTH	100	EAST	EDDY

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

¹⁶ GEODETIC DATA NAD 83 GRID - NM EAST SURFACE LOCATION N 610745.4 - E 596184.5 LAT: 32.6788571° N LONG: 104.1550749° W BOTTOM HOLE N 610323.9 - E 606282.1 LAT: 32.6776475° N LONG: 104.1222596° W			CORNER DATA NAD 83 GRID - NM EAST A: FOUND BRASS CAP "1941" N 606815.2 - E 595993.1 B: FOUND BRASS CAP "1941" N 609454.0 - E 595984.6 C: FOUND BRASS CAP "1941" N 612093.1 - E 595974.2 D: FOUND BRASS CAP "1941" N 612118.4 - E 598572.7 E: FOUND BRASS CAP "1941" N 612140.9 - E 601171.0 F: FOUND BRASS CAP "1941" N 612183.7 - E 603768.0			G: FOUND BRASS CAP "1941" N 612224.9 - E 606365.7 H: FOUND BRASS CAP "1941" N 609588.9 - E 606388.4 I: FOUND BRASS CAP "1941" N 606928.4 - E 606391.3 J: FOUND BRASS CAP "1941" N 606894.9 - E 603787.9 K: FOUND BRASS CAP "1941" N 606860.6 - E 601187.3 L: FOUND BRASS CAP "1941" N 606837.6 - E 598589.8 M: FOUND BRASS CAP "1941" N 609501.9 - E 601179.0			¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Bradley Bishop</i> 2-19-21 Signature Date BRADLEY BISHOP Printed Name BBISHOP@MEWBOURNE.COM E-mail Address		
¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. 02-17-21 Date of Survey Signature and Seal of Professional Surveyor 19680 Certificate Number			PROF. ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR								

JOB NO.: LS1804532R

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

GAS CAPTURE PLAN

Date: 2/23/2021

☒ 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
BOURBON RED 11 12 B3EH STATE COM #001H	30-015-48073	E-11-19S-28E	1350N 0206W	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 Enterprise Field Services, LLC and will be connected to Enterprise Field Services, LLC High Pressure gathering system located in Eddy County, New Mexico. It will require 3400' of pipeline to connect the facility to High Pressure gathering system. MEWBOURNE OIL CO provides (periodically) to Enterprise Field Services, 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 Enterprise Field Services, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Enterprise Field Services, LLC Processing Plant located in Sec. 17, Twn. 19S, Rng. 31E, 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 Enterprise Field Services, 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 292726

PERMIT COMMENTS

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241		API Number: 30-015-48073
		Well: BOURBON RED 11 12 B3EH STATE COM #001H

Created By	Comment	Comment Date
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Form APD Conditions

Permit 292726

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address: MEWBOURNE OIL CO [14744] P.O. Box 5270 Hobbs, NM 88241	API Number: 30-015-48073
	Well: BOURBON RED 11 12 B3EH STATE COM #001H

OCD Reviewer	Condition
ksimmons	Notify OCD 24 hours prior to casing & cement
ksimmons	Will require a File As Drilled C-102 and a Directional Survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Surface casing must be set 25' below top of Rustler Anhydrite or salt 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 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
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

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

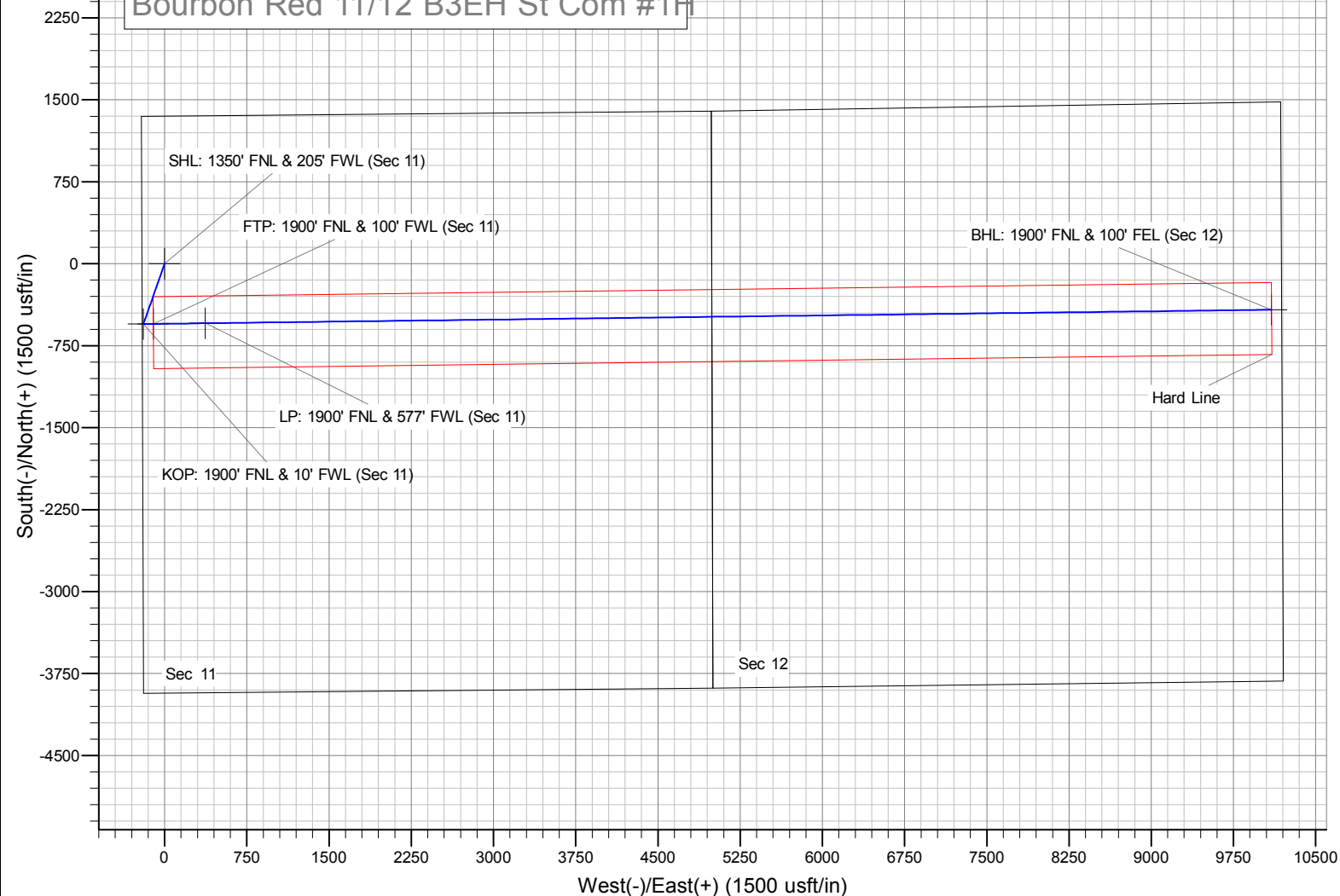
Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

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

Bourbon Red 11/12 B3EH St Com #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Bourbon Red 11/12 B3EH St Com #1H

Sec 11, T19S, R28E

SHL: 1350' FNL & 205' FWL, Sec 11

BHL: 1900' FNL & 100' FEL, Sec 12

Plan: Design #1

Standard Planning Report

19 February, 2021

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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	Bourbon Red 11/12 B3EH St Com #1H					
Site Position:		Northing:	610,745.00 usft	Latitude:	32.6788560	
From:	Map	Easting:	596,185.00 usft	Longitude:	-104.1550733	
Position Uncertainty:		0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.10 °

Well	Sec 11, T19S, R28E					
Well Position	+N/-S	0.0 usft	Northing:	610,745.00 usft	Latitude:	32.6788560
	+E/-W	0.0 usft	Easting:	596,185.00 usft	Longitude:	-104.1550733
Position Uncertainty		0.0 usft	Wellhead Elevation:	3,518.0 usft	Ground Level:	3,490.0 usft

Wellbore	BHL: 1900' FNL & 100' FEL, Sec 12				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/31/2014	7.45	60.42	48,445

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	92.39

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	
400.0	0.00	0.00	400.0	0.0	0.0	0.00	0.00	0.00	0.00	
700.4	4.51	199.27	700.1	-11.1	-3.9	1.50	1.50	0.00	199.27	
7,842.3	4.51	199.27	7,819.9	-540.9	-189.1	0.00	0.00	0.00	0.00	
8,142.7	0.00	0.00	8,120.0	-552.0	-193.0	1.50	-1.50	0.00	180.00	KOP: 1900' FNL & 10
9,034.7	89.18	89.27	8,693.0	-544.8	371.8	10.00	10.00	0.00	89.27	
18,761.6	89.18	89.27	8,832.0	-421.0	10,097.0	0.00	0.00	0.00	0.00	BHL: 1900' FNL & 100'

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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: 1350' FNL & 205' FWL (Sec 11)										
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	1.50	199.27	500.0	-1.2	-0.4	-0.4	1.50	1.50	0.00	
600.0	3.00	199.27	599.9	-4.9	-1.7	-1.5	1.50	1.50	0.00	
700.0	4.50	199.27	699.7	-11.1	-3.9	-3.4	1.50	1.50	0.00	
700.4	4.51	199.27	700.1	-11.1	-3.9	-3.4	1.50	1.50	0.00	
800.0	4.51	199.27	799.4	-18.5	-6.5	-5.7	0.00	0.00	0.00	
900.0	4.51	199.27	899.1	-25.9	-9.1	-8.0	0.00	0.00	0.00	
1,000.0	4.51	199.27	998.8	-33.4	-11.7	-10.3	0.00	0.00	0.00	
1,100.0	4.51	199.27	1,098.5	-40.8	-14.3	-12.5	0.00	0.00	0.00	
1,200.0	4.51	199.27	1,198.1	-48.2	-16.9	-14.8	0.00	0.00	0.00	
1,300.0	4.51	199.27	1,297.8	-55.6	-19.4	-17.1	0.00	0.00	0.00	
1,400.0	4.51	199.27	1,397.5	-63.0	-22.0	-19.4	0.00	0.00	0.00	
1,500.0	4.51	199.27	1,497.2	-70.5	-24.6	-21.7	0.00	0.00	0.00	
1,600.0	4.51	199.27	1,596.9	-77.9	-27.2	-24.0	0.00	0.00	0.00	
1,700.0	4.51	199.27	1,696.6	-85.3	-29.8	-26.2	0.00	0.00	0.00	
1,800.0	4.51	199.27	1,796.3	-92.7	-32.4	-28.5	0.00	0.00	0.00	
1,900.0	4.51	199.27	1,896.0	-100.1	-35.0	-30.8	0.00	0.00	0.00	
2,000.0	4.51	199.27	1,995.7	-107.5	-37.6	-33.1	0.00	0.00	0.00	
2,100.0	4.51	199.27	2,095.4	-115.0	-40.2	-35.4	0.00	0.00	0.00	
2,200.0	4.51	199.27	2,195.1	-122.4	-42.8	-37.6	0.00	0.00	0.00	
2,300.0	4.51	199.27	2,294.7	-129.8	-45.4	-39.9	0.00	0.00	0.00	
2,400.0	4.51	199.27	2,394.4	-137.2	-48.0	-42.2	0.00	0.00	0.00	
2,500.0	4.51	199.27	2,494.1	-144.6	-50.6	-44.5	0.00	0.00	0.00	
2,600.0	4.51	199.27	2,593.8	-152.0	-53.2	-46.8	0.00	0.00	0.00	
2,700.0	4.51	199.27	2,693.5	-159.5	-55.8	-49.1	0.00	0.00	0.00	
2,800.0	4.51	199.27	2,793.2	-166.9	-58.3	-51.3	0.00	0.00	0.00	
2,900.0	4.51	199.27	2,892.9	-174.3	-60.9	-53.6	0.00	0.00	0.00	
3,000.0	4.51	199.27	2,992.6	-181.7	-63.5	-55.9	0.00	0.00	0.00	
3,100.0	4.51	199.27	3,092.3	-189.1	-66.1	-58.2	0.00	0.00	0.00	
3,200.0	4.51	199.27	3,192.0	-196.5	-68.7	-60.5	0.00	0.00	0.00	
3,300.0	4.51	199.27	3,291.7	-204.0	-71.3	-62.8	0.00	0.00	0.00	
3,400.0	4.51	199.27	3,391.3	-211.4	-73.9	-65.0	0.00	0.00	0.00	
3,500.0	4.51	199.27	3,491.0	-218.8	-76.5	-67.3	0.00	0.00	0.00	
3,600.0	4.51	199.27	3,590.7	-226.2	-79.1	-69.6	0.00	0.00	0.00	
3,700.0	4.51	199.27	3,690.4	-233.6	-81.7	-71.9	0.00	0.00	0.00	
3,800.0	4.51	199.27	3,790.1	-241.0	-84.3	-74.2	0.00	0.00	0.00	
3,900.0	4.51	199.27	3,889.8	-248.5	-86.9	-76.4	0.00	0.00	0.00	
4,000.0	4.51	199.27	3,989.5	-255.9	-89.5	-78.7	0.00	0.00	0.00	
4,100.0	4.51	199.27	4,089.2	-263.3	-92.1	-81.0	0.00	0.00	0.00	
4,200.0	4.51	199.27	4,188.9	-270.7	-94.6	-83.3	0.00	0.00	0.00	
4,300.0	4.51	199.27	4,288.6	-278.1	-97.2	-85.6	0.00	0.00	0.00	
4,400.0	4.51	199.27	4,388.3	-285.5	-99.8	-87.9	0.00	0.00	0.00	
4,500.0	4.51	199.27	4,487.9	-293.0	-102.4	-90.1	0.00	0.00	0.00	
4,600.0	4.51	199.27	4,587.6	-300.4	-105.0	-92.4	0.00	0.00	0.00	
4,700.0	4.51	199.27	4,687.3	-307.8	-107.6	-94.7	0.00	0.00	0.00	
4,800.0	4.51	199.27	4,787.0	-315.2	-110.2	-97.0	0.00	0.00	0.00	
4,900.0	4.51	199.27	4,886.7	-322.6	-112.8	-99.3	0.00	0.00	0.00	
5,000.0	4.51	199.27	4,986.4	-330.0	-115.4	-101.5	0.00	0.00	0.00	
5,100.0	4.51	199.27	5,086.1	-337.5	-118.0	-103.8	0.00	0.00	0.00	

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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	4.51	199.27	5,185.8	-344.9	-120.6	-106.1	0.00	0.00	0.00
5,300.0	4.51	199.27	5,285.5	-352.3	-123.2	-108.4	0.00	0.00	0.00
5,400.0	4.51	199.27	5,385.2	-359.7	-125.8	-110.7	0.00	0.00	0.00
5,500.0	4.51	199.27	5,484.9	-367.1	-128.4	-113.0	0.00	0.00	0.00
5,600.0	4.51	199.27	5,584.5	-374.5	-131.0	-115.2	0.00	0.00	0.00
5,700.0	4.51	199.27	5,684.2	-382.0	-133.5	-117.5	0.00	0.00	0.00
5,800.0	4.51	199.27	5,783.9	-389.4	-136.1	-119.8	0.00	0.00	0.00
5,900.0	4.51	199.27	5,883.6	-396.8	-138.7	-122.1	0.00	0.00	0.00
6,000.0	4.51	199.27	5,983.3	-404.2	-141.3	-124.4	0.00	0.00	0.00
6,100.0	4.51	199.27	6,083.0	-411.6	-143.9	-126.6	0.00	0.00	0.00
6,200.0	4.51	199.27	6,182.7	-419.0	-146.5	-128.9	0.00	0.00	0.00
6,300.0	4.51	199.27	6,282.4	-426.5	-149.1	-131.2	0.00	0.00	0.00
6,400.0	4.51	199.27	6,382.1	-433.9	-151.7	-133.5	0.00	0.00	0.00
6,500.0	4.51	199.27	6,481.8	-441.3	-154.3	-135.8	0.00	0.00	0.00
6,600.0	4.51	199.27	6,581.5	-448.7	-156.9	-138.1	0.00	0.00	0.00
6,700.0	4.51	199.27	6,681.1	-456.1	-159.5	-140.3	0.00	0.00	0.00
6,800.0	4.51	199.27	6,780.8	-463.5	-162.1	-142.6	0.00	0.00	0.00
6,900.0	4.51	199.27	6,880.5	-471.0	-164.7	-144.9	0.00	0.00	0.00
7,000.0	4.51	199.27	6,980.2	-478.4	-167.3	-147.2	0.00	0.00	0.00
7,100.0	4.51	199.27	7,079.9	-485.8	-169.9	-149.5	0.00	0.00	0.00
7,200.0	4.51	199.27	7,179.6	-493.2	-172.4	-151.8	0.00	0.00	0.00
7,300.0	4.51	199.27	7,279.3	-500.6	-175.0	-154.0	0.00	0.00	0.00
7,400.0	4.51	199.27	7,379.0	-508.1	-177.6	-156.3	0.00	0.00	0.00
7,500.0	4.51	199.27	7,478.7	-515.5	-180.2	-158.6	0.00	0.00	0.00
7,600.0	4.51	199.27	7,578.4	-522.9	-182.8	-160.9	0.00	0.00	0.00
7,700.0	4.51	199.27	7,678.1	-530.3	-185.4	-163.2	0.00	0.00	0.00
7,800.0	4.51	199.27	7,777.7	-537.7	-188.0	-165.4	0.00	0.00	0.00
7,842.3	4.51	199.27	7,819.9	-540.9	-189.1	-166.4	0.00	0.00	0.00
7,900.0	3.64	199.27	7,877.5	-544.7	-190.5	-167.6	1.50	-1.50	0.00
8,000.0	2.14	199.27	7,977.3	-549.5	-192.1	-169.1	1.50	-1.50	0.00
8,100.0	0.64	199.27	8,077.3	-551.8	-192.9	-169.8	1.50	-1.50	0.00
8,142.7	0.00	0.00	8,120.0	-552.0	-193.0	-169.8	1.50	-1.50	0.00
KOP: 1900' FNL & 10' FWL (Sec 11)									
8,200.0	5.73	89.27	8,177.2	-552.0	-190.1	-167.0	10.00	10.00	0.00
8,300.0	15.73	89.27	8,275.3	-551.7	-171.5	-148.4	10.00	10.00	0.00
8,400.0	25.73	89.27	8,368.7	-551.3	-136.2	-113.1	10.00	10.00	0.00
8,468.3	32.55	89.27	8,428.3	-550.9	-103.0	-80.0	10.00	10.00	0.00
FTP: 1900' FNL & 100' FWL (Sec 11)									
8,500.0	35.72	89.27	8,454.6	-550.6	-85.2	-62.2	10.00	10.00	0.00
8,600.0	45.72	89.27	8,530.3	-549.8	-20.0	2.9	10.00	10.00	0.00
8,700.0	55.72	89.27	8,593.5	-548.8	57.3	80.1	10.00	10.00	0.00
8,800.0	65.72	89.27	8,642.4	-547.7	144.4	167.1	10.00	10.00	0.00
8,900.0	75.72	89.27	8,675.3	-546.5	238.6	261.2	10.00	10.00	0.00
9,000.0	85.72	89.27	8,691.5	-545.3	337.2	359.6	10.00	10.00	0.00
9,034.6	89.18	89.27	8,693.0	-544.8	371.8	394.2	10.00	10.00	0.00
LP: 1900' FNL & 577' FWL (Sec 11)									
9,100.0	89.18	89.27	8,693.9	-544.0	437.1	459.4	0.00	0.00	0.00
9,200.0	89.18	89.27	8,695.4	-542.7	537.1	559.3	0.00	0.00	0.00
9,300.0	89.18	89.27	8,696.8	-541.4	637.1	659.1	0.00	0.00	0.00
9,400.0	89.18	89.27	8,698.2	-540.2	737.1	759.0	0.00	0.00	0.00
9,500.0	89.18	89.27	8,699.6	-538.9	837.1	858.8	0.00	0.00	0.00
9,600.0	89.18	89.27	8,701.1	-537.6	937.1	958.6	0.00	0.00	0.00
9,700.0	89.18	89.27	8,702.5	-536.3	1,037.0	1,058.5	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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)
9,800.0	89.18	89.27	8,703.9	-535.1	1,137.0	1,158.3	0.00	0.00	0.00
9,900.0	89.18	89.27	8,705.4	-533.8	1,237.0	1,258.2	0.00	0.00	0.00
10,000.0	89.18	89.27	8,706.8	-532.5	1,337.0	1,358.0	0.00	0.00	0.00
10,100.0	89.18	89.27	8,708.2	-531.2	1,437.0	1,457.8	0.00	0.00	0.00
10,200.0	89.18	89.27	8,709.7	-530.0	1,536.9	1,557.7	0.00	0.00	0.00
10,300.0	89.18	89.27	8,711.1	-528.7	1,636.9	1,657.5	0.00	0.00	0.00
10,400.0	89.18	89.27	8,712.5	-527.4	1,736.9	1,757.4	0.00	0.00	0.00
10,500.0	89.18	89.27	8,713.9	-526.2	1,836.9	1,857.2	0.00	0.00	0.00
10,600.0	89.18	89.27	8,715.4	-524.9	1,936.9	1,957.1	0.00	0.00	0.00
10,700.0	89.18	89.27	8,716.8	-523.6	2,036.9	2,056.9	0.00	0.00	0.00
10,800.0	89.18	89.27	8,718.2	-522.3	2,136.8	2,156.7	0.00	0.00	0.00
10,900.0	89.18	89.27	8,719.7	-521.1	2,236.8	2,256.6	0.00	0.00	0.00
11,000.0	89.18	89.27	8,721.1	-519.8	2,336.8	2,356.4	0.00	0.00	0.00
11,100.0	89.18	89.27	8,722.5	-518.5	2,436.8	2,456.3	0.00	0.00	0.00
11,200.0	89.18	89.27	8,723.9	-517.2	2,536.8	2,556.1	0.00	0.00	0.00
11,300.0	89.18	89.27	8,725.4	-516.0	2,636.7	2,655.9	0.00	0.00	0.00
11,400.0	89.18	89.27	8,726.8	-514.7	2,736.7	2,755.8	0.00	0.00	0.00
11,500.0	89.18	89.27	8,728.2	-513.4	2,836.7	2,855.6	0.00	0.00	0.00
11,600.0	89.18	89.27	8,729.7	-512.2	2,936.7	2,955.5	0.00	0.00	0.00
11,700.0	89.18	89.27	8,731.1	-510.9	3,036.7	3,055.3	0.00	0.00	0.00
11,800.0	89.18	89.27	8,732.5	-509.6	3,136.6	3,155.2	0.00	0.00	0.00
11,900.0	89.18	89.27	8,733.9	-508.3	3,236.6	3,255.0	0.00	0.00	0.00
12,000.0	89.18	89.27	8,735.4	-507.1	3,336.6	3,354.8	0.00	0.00	0.00
12,100.0	89.18	89.27	8,736.8	-505.8	3,436.6	3,454.7	0.00	0.00	0.00
12,200.0	89.18	89.27	8,738.2	-504.5	3,536.6	3,554.5	0.00	0.00	0.00
12,300.0	89.18	89.27	8,739.7	-503.2	3,636.6	3,654.4	0.00	0.00	0.00
12,400.0	89.18	89.27	8,741.1	-502.0	3,736.5	3,754.2	0.00	0.00	0.00
12,500.0	89.18	89.27	8,742.5	-500.7	3,836.5	3,854.0	0.00	0.00	0.00
12,600.0	89.18	89.27	8,743.9	-499.4	3,936.5	3,953.9	0.00	0.00	0.00
12,700.0	89.18	89.27	8,745.4	-498.2	4,036.5	4,053.7	0.00	0.00	0.00
12,800.0	89.18	89.27	8,746.8	-496.9	4,136.5	4,153.6	0.00	0.00	0.00
12,900.0	89.18	89.27	8,748.2	-495.6	4,236.4	4,253.4	0.00	0.00	0.00
13,000.0	89.18	89.27	8,749.7	-494.3	4,336.4	4,353.3	0.00	0.00	0.00
13,100.0	89.18	89.27	8,751.1	-493.1	4,436.4	4,453.1	0.00	0.00	0.00
13,200.0	89.18	89.27	8,752.5	-491.8	4,536.4	4,552.9	0.00	0.00	0.00
13,300.0	89.18	89.27	8,754.0	-490.5	4,636.4	4,652.8	0.00	0.00	0.00
13,400.0	89.18	89.27	8,755.4	-489.2	4,736.4	4,752.6	0.00	0.00	0.00
13,500.0	89.18	89.27	8,756.8	-488.0	4,836.3	4,852.5	0.00	0.00	0.00
13,600.0	89.18	89.27	8,758.2	-486.7	4,936.3	4,952.3	0.00	0.00	0.00
13,700.0	89.18	89.27	8,759.7	-485.4	5,036.3	5,052.2	0.00	0.00	0.00
13,800.0	89.18	89.27	8,761.1	-484.2	5,136.3	5,152.0	0.00	0.00	0.00
13,900.0	89.18	89.27	8,762.5	-482.9	5,236.3	5,251.8	0.00	0.00	0.00
14,000.0	89.18	89.27	8,764.0	-481.6	5,336.2	5,351.7	0.00	0.00	0.00
14,100.0	89.18	89.27	8,765.4	-480.3	5,436.2	5,451.5	0.00	0.00	0.00
14,200.0	89.18	89.27	8,766.8	-479.1	5,536.2	5,551.4	0.00	0.00	0.00
14,300.0	89.18	89.27	8,768.2	-477.8	5,636.2	5,651.2	0.00	0.00	0.00
14,400.0	89.18	89.27	8,769.7	-476.5	5,736.2	5,751.0	0.00	0.00	0.00
14,500.0	89.18	89.27	8,771.1	-475.2	5,836.2	5,850.9	0.00	0.00	0.00
14,600.0	89.18	89.27	8,772.5	-474.0	5,936.1	5,950.7	0.00	0.00	0.00
14,700.0	89.18	89.27	8,774.0	-472.7	6,036.1	6,050.6	0.00	0.00	0.00
14,800.0	89.18	89.27	8,775.4	-471.4	6,136.1	6,150.4	0.00	0.00	0.00
14,900.0	89.18	89.27	8,776.8	-470.2	6,236.1	6,250.3	0.00	0.00	0.00
15,000.0	89.18	89.27	8,778.2	-468.9	6,336.1	6,350.1	0.00	0.00	0.00
15,100.0	89.18	89.27	8,779.7	-467.6	6,436.0	6,449.9	0.00	0.00	0.00

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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)	
15,200.0	89.18	89.27	8,781.1	-466.3	6,536.0	6,549.8	0.00	0.00	0.00	
15,300.0	89.18	89.27	8,782.5	-465.1	6,636.0	6,649.6	0.00	0.00	0.00	
15,400.0	89.18	89.27	8,784.0	-463.8	6,736.0	6,749.5	0.00	0.00	0.00	
15,500.0	89.18	89.27	8,785.4	-462.5	6,836.0	6,849.3	0.00	0.00	0.00	
15,600.0	89.18	89.27	8,786.8	-461.2	6,936.0	6,949.1	0.00	0.00	0.00	
15,700.0	89.18	89.27	8,788.2	-460.0	7,035.9	7,049.0	0.00	0.00	0.00	
15,800.0	89.18	89.27	8,789.7	-458.7	7,135.9	7,148.8	0.00	0.00	0.00	
15,900.0	89.18	89.27	8,791.1	-457.4	7,235.9	7,248.7	0.00	0.00	0.00	
16,000.0	89.18	89.27	8,792.5	-456.2	7,335.9	7,348.5	0.00	0.00	0.00	
16,100.0	89.18	89.27	8,794.0	-454.9	7,435.9	7,448.4	0.00	0.00	0.00	
16,200.0	89.18	89.27	8,795.4	-453.6	7,535.8	7,548.2	0.00	0.00	0.00	
16,300.0	89.18	89.27	8,796.8	-452.3	7,635.8	7,648.0	0.00	0.00	0.00	
16,400.0	89.18	89.27	8,798.3	-451.1	7,735.8	7,747.9	0.00	0.00	0.00	
16,500.0	89.18	89.27	8,799.7	-449.8	7,835.8	7,847.7	0.00	0.00	0.00	
16,600.0	89.18	89.27	8,801.1	-448.5	7,935.8	7,947.6	0.00	0.00	0.00	
16,700.0	89.18	89.27	8,802.5	-447.2	8,035.8	8,047.4	0.00	0.00	0.00	
16,800.0	89.18	89.27	8,804.0	-446.0	8,135.7	8,147.2	0.00	0.00	0.00	
16,900.0	89.18	89.27	8,805.4	-444.7	8,235.7	8,247.1	0.00	0.00	0.00	
17,000.0	89.18	89.27	8,806.8	-443.4	8,335.7	8,346.9	0.00	0.00	0.00	
17,100.0	89.18	89.27	8,808.3	-442.1	8,435.7	8,446.8	0.00	0.00	0.00	
17,200.0	89.18	89.27	8,809.7	-440.9	8,535.7	8,546.6	0.00	0.00	0.00	
17,300.0	89.18	89.27	8,811.1	-439.6	8,635.6	8,646.5	0.00	0.00	0.00	
17,400.0	89.18	89.27	8,812.5	-438.3	8,735.6	8,746.3	0.00	0.00	0.00	
17,500.0	89.18	89.27	8,814.0	-437.1	8,835.6	8,846.1	0.00	0.00	0.00	
17,600.0	89.18	89.27	8,815.4	-435.8	8,935.6	8,946.0	0.00	0.00	0.00	
17,700.0	89.18	89.27	8,816.8	-434.5	9,035.6	9,045.8	0.00	0.00	0.00	
17,800.0	89.18	89.27	8,818.3	-433.2	9,135.6	9,145.7	0.00	0.00	0.00	
17,900.0	89.18	89.27	8,819.7	-432.0	9,235.5	9,245.5	0.00	0.00	0.00	
18,000.0	89.18	89.27	8,821.1	-430.7	9,335.5	9,345.4	0.00	0.00	0.00	
18,100.0	89.18	89.27	8,822.5	-429.4	9,435.5	9,445.2	0.00	0.00	0.00	
18,200.0	89.18	89.27	8,824.0	-428.1	9,535.5	9,545.0	0.00	0.00	0.00	
18,300.0	89.18	89.27	8,825.4	-426.9	9,635.5	9,644.9	0.00	0.00	0.00	
18,400.0	89.18	89.27	8,826.8	-425.6	9,735.4	9,744.7	0.00	0.00	0.00	
18,500.0	89.18	89.27	8,828.3	-424.3	9,835.4	9,844.6	0.00	0.00	0.00	
18,600.0	89.18	89.27	8,829.7	-423.1	9,935.4	9,944.4	0.00	0.00	0.00	
18,700.0	89.18	89.27	8,831.1	-421.8	10,035.4	10,044.2	0.00	0.00	0.00	
18,761.6	89.18	89.27	8,832.0	-421.0	10,097.0	10,105.8	0.00	0.00	0.00	
BHL: 1900' FNL & 100' FEL (Sec 12)										

Planning Report

Database:	Hobbs	Local Co-ordinate Reference:	Site Bourbon Red 11/12 B3EH St Com #1H
Company:	Mewbourne Oil Company	TVD Reference:	WELL @ 3518.0usft (Original Well Elev)
Project:	Eddy County, New Mexico NAD 83	MD Reference:	WELL @ 3518.0usft (Original Well Elev)
Site:	Bourbon Red 11/12 B3EH St Com #1H	North Reference:	Grid
Well:	Sec 11, T19S, R28E	Survey Calculation Method:	Minimum Curvature
Wellbore:	BHL: 1900' FNL & 100' FEL, Sec 12		
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: 1350' FNL & 205' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	610,745.00	596,185.00	32.6788560	-104.1550733
KOP: 1900' FNL & 10' F - plan hits target center - Point	0.00	0.00	8,120.0	-552.0	-193.0	610,193.00	595,992.00	32.6773396	-104.1557036
FTP: 1900' FNL & 100' F - plan hits target center - Point	0.00	0.00	8,428.3	-550.9	-103.0	610,194.15	596,082.00	32.6773423	-104.1554111
LP: 1900' FNL & 577' FV - plan hits target center - Point	0.00	0.00	8,693.0	-544.8	371.8	610,200.20	596,556.80	32.6773568	-104.1538679
BHL: 1900' FNL & 100' F - plan hits target center - Point	0.00	0.00	8,832.0	-421.0	10,097.0	610,324.00	606,282.00	32.6776479	-104.1222599