

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**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.*5. Lease Serial No.
NMNM56428

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
PAVO FRIO 29/30 B2KL FED COM 1H2. Name of Operator
MEWBOURNE OIL COMPANYContact: JACKIE LATHAN
E-Mail: jlathan@mewbourne.com9. API Well No.
30-015-45996-00-X13a. Address
P O BOX 5270
HOBBS, NM 882413b. Phone No. (include area code)
Ph: 575-393-590510. Field and Pool or Exploratory Area
PALMILLO-BONE SPRING, EAST4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 29 T18S R29E NWSE 1980FSL 2435FEL
32.716621 N Lat, 104.096260 W Lon**Carlsbad Field Office**
OCD Artesia11. County or Parish, State
EDDY COUNTY, NM**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
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 performed 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 recompleat 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 determined that the site is ready for final inspection.

Mewbourne Oil Company requests approval to make the following changes to the approved APD:

- 1) Change well name to Pavo Frio 29/28 B3OP Fed Com #1H (325984)
- 2) Change BHL to 500' FSL & 100' FEL, Sec 28, T18S, R29E
- 3) Change casing & cement design as detailed in attached drilling program.

See attachments for C-102, drilling program & directional plan
Please contact Jake Maxey with any questions.

RECEIVED

JUN 25 2019

DISTRICT II-ARTESIA O.C.D.

All previous COAs shall apply.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #467133 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 06/03/2019 (19PP2272SE)

Name (Printed/Typed) JAKE MAXEY

Title ENGINEER

Signature (Electronic Submission)

Date 05/30/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By ZOTA STEVENS

Title PETROLEUM ENGINEER

Date 06/06/2019

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 Carlsbad

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)

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 29

1. Geologic Formations

TVD of target	8673'	Pilot hole depth	NA
MD at TD:	16,333'	Deepest expected fresh water:	200'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler			
Top of Salt	430		
Base of Salt	815		
Yates	990		
Seven Rivers	1350		
Queen	1930		
Grayburg	2280		
San Andres	2760		
Bone Spring		Oil/Gas	
1 st Bone Spring Sand	6605		
2 nd Bone Spring Sand	7305		
3 rd Bone Spring Sand	8380	Target Zone	
Abo			
Wolfcamp		Will Not Penetrate	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

*H2S, water flows, loss of circulation, abnormal pressures, etc.

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 29

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	320'	13.375"	48	H40	STC	5.14	11.55	20.96
12.25"	0'	1200'	9.625"	36	J55	LTC	3.24	5.64	10.49
8.75"	0'	8995'	7"	26	P110	LTC	1.75	2.32	2.74
6.125"	8253'	16,333'	4.5"	13.5	P110	LTC	2.37	2.75	3.10
BLM Minimum Safety Factor				1.125	1	1.6 Dry 1.8 Wet			

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

Must have table for contingency casing

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

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 29

Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	90	14.8	2.12	6.3	8	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Inter.	110	12.5	2.12	11	10	Lead: Class C + Salt + Gel + Extender + LCM
	200	14.8	1.34	6.3	8	Tail: Class C + Retarder
Prod.	485	12.5	2.12	11	9	Lead: Class C + Gel + Retarder + Defoamer + Extender
	400	15.6	1.18	5.2	10	Tail: Class H + Retarder + Fluid Loss + Defoamer
Liner	330	11.2	2.97	18	16	Class C + Salt + Gel + Fluid Loss + Retarder + Dispersant + Defoamer + Anti-Settling Agent

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

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	1000'	25%
Liner	8995'	25%

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H
Sec 29, T18S, R29E
SL: 1980' FSL & 2435' FEL, Sec 29
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4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 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. 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.

X	Formation integrity test will be performed per Onshore Order #2. 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 Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 29

	Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. • Provide description here See attached schematic.

5. Mud Program

TVD		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	320	FW Gel	8.6-8.8	28-34	N/C
320	1200	Saturated Brine	10.0	28-34	N/C
1200	8554	Cut Brine	8.6-9.7	28-34	N/C
8554	8673	OBM	8.6-10.0	30-40	<20cc

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?	Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing	
X	Will run GR/CNL from KOP (8253') to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
	No Logs are planned based on well control or offset log information.
	Drill stem test? If yes, explain
	Coring? If yes, explain

Additional logs planned		Interval
X	Gamma Ray	8253'(KOP) to TD
	Density	
	CBL	

Mewbourne Oil Company, Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 29

	Mud log	
	PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	4510 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole.

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

8. Other facets of operation

Is this a walking operation? If yes, describe.

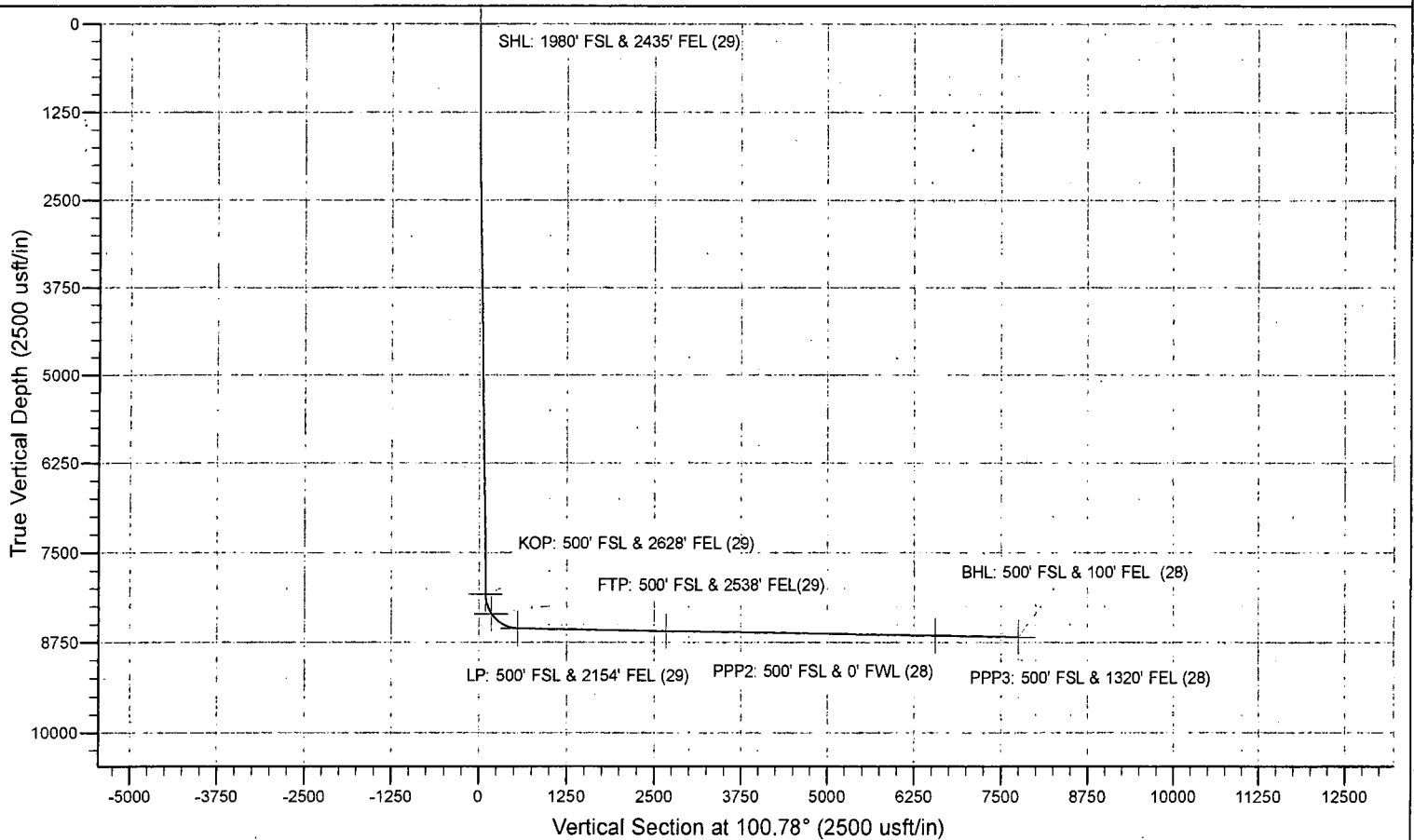
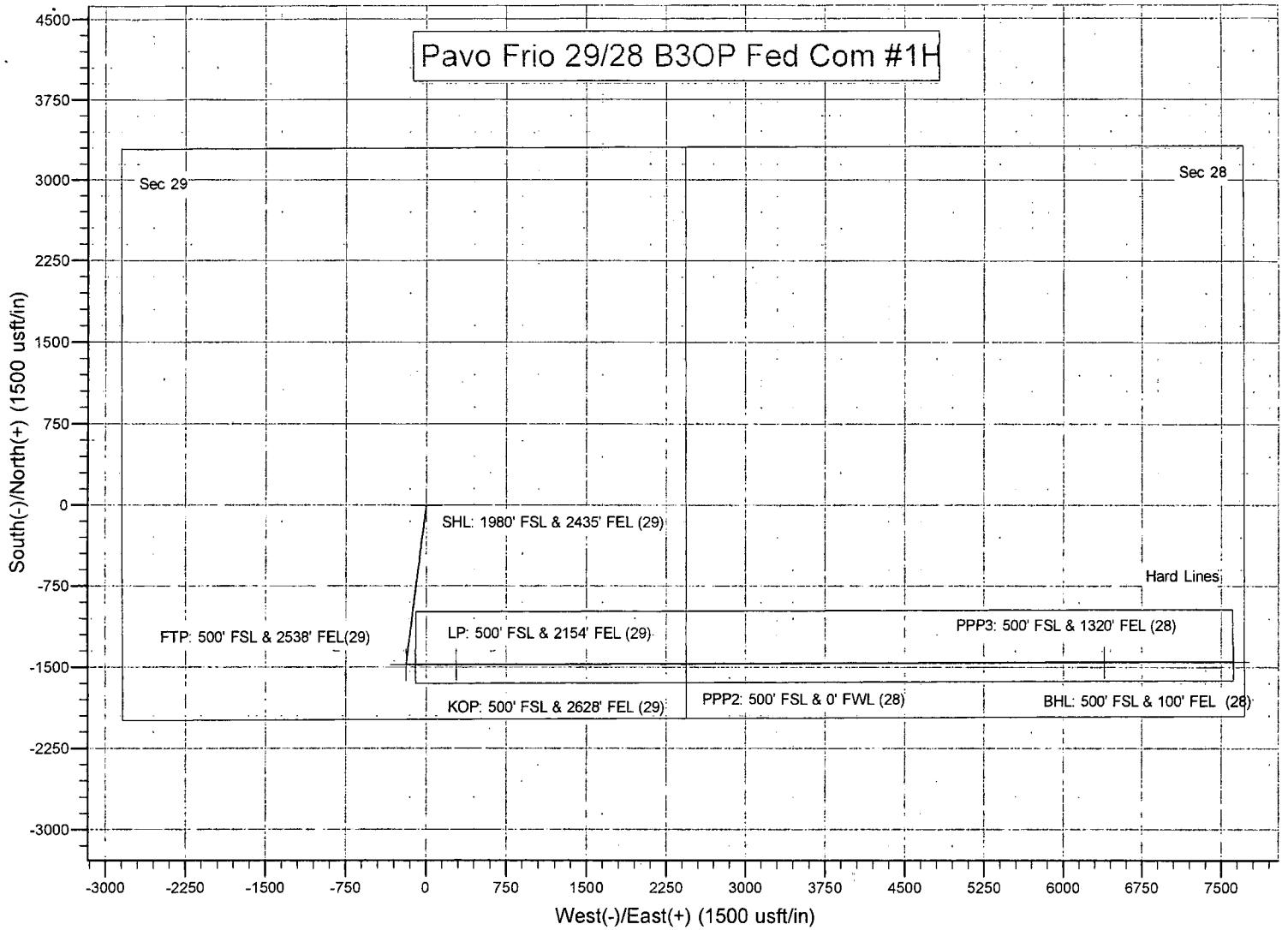
Will be pre-setting casing? If yes, describe.

Attachments

___ Directional Plan

___ Other, describe

Pavo Frio 29/28 B3OP Fed Com #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Pavo Frio 29/28 B3OP Fed Com #1H

Sec 29, T18S, R29E

SHL: 1980' FSL & 2435' FEL, Sec 29

BHL: 500' FSL & 100' FEL, Sec 28

Plan: Design #1

Standard Planning Report

29 May, 2019

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Pavo Frio 29/28 B3OP Fed Com #1H
Company	Mewbourne Oil Company	TVD Reference	WELL @ 3493.0usft (Original Well Elev)
Project	Eddy County, New Mexico NAD 83	MD Reference	WELL @ 3493.0usft (Original Well Elev)
Site	Pavo Frio 29/28 B3OP Fed Com #1H	North Reference	Grid
Well	Sec 29, T18S, R29E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL: 500' FSL & 100' FEL, Sec 28		
Design	Design #1		

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Pavo Frio 29/28 B3OP Fed Com #1H		
Site Position:	From:	Map	
Northing:	624,519.30 usft	Latitude:	32.7166199
Easting:	614,250.30 usft	Longitude:	-104.0962595
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
Grid Convergence:	0.13 °		

Well	Sec 29, T18S, R29E		
Well Position	+N/-S	0.0 usft	
+E/-W	0.0 usft		
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,493.0 usft
Ground Level:	3,466.0 usft		

Wellbore	BHL: 500' FSL & 100' FEL, Sec 28		
Magnetics	Model Name	Sample Date	
Declination	6.88	Dip Angle	60.35
Field Strength	48,061		

Design	Design #1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
(usft)	(usft)	(usft)	(usft)
0.0	0.0	0.0	100.78

Plan Sections:										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	14.25	187.25	2,190.3	-116.6	-14.8	1.50	1.50	0.00	187.25	
7,303.1	14.25	187.25	7,136.3	-1,362.7	-173.5	0.00	0.00	0.00	0.00	
8,253.1	0.00	0.00	8,076.5	-1,479.3	-188.3	1.50	-1.50	0.00	180.00 KOP: 500' FSL & 262'	
8,995.4	89.07	89.79	8,554.0	-1,477.6	281.5	12.00	12.00	0.00	89.79	
16,332.9	89.07	89.79	8,673.0	-1,451.1	7,617.9	0.00	0.00	0.00	0.00 BHL: 500' FSL & 100'	

Planning Report

Database: Hobbs
 Company: Mewbourne Oil Company
 Project: Eddy County, New Mexico NAD 83
 Site: Pavo Frio 29/28 B3OP Fed Com #1H
 Well: Sec 29, T18S, R29E
 Wellbore: BHL: 500' FSL & 100' FEL, Sec 28
 Design: Design #1

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

Site Pavo Frio 29/28 B3OP Fed Com #1H
 WELL @ 3493.0usft (Original Well Elev)
 WELL @ 3493.0usft (Original Well Elev)
 Grid
 Minimum Curvature

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SHL: 1980' FSL & 2435' FEL (29)									
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
1,250.0	0.00	0.00	1,250.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.75	187.25	1,300.0	-0.3	0.0	0.0	1.50	1.50	0.00
1,400.0	2.25	187.25	1,400.0	-2.9	-0.4	0.2	1.50	1.50	0.00
1,500.0	3.75	187.25	1,499.8	-8.1	-1.0	0.5	1.50	1.50	0.00
1,600.0	5.25	187.25	1,599.5	-15.9	-2.0	1.0	1.50	1.50	0.00
1,700.0	6.75	187.25	1,699.0	-26.3	-3.3	1.6	1.50	1.50	0.00
1,800.0	8.25	187.25	1,798.1	-39.2	-5.0	2.4	1.50	1.50	0.00
1,900.0	9.75	187.25	1,896.9	-54.7	-7.0	3.4	1.50	1.50	0.00
2,000.0	11.25	187.25	1,995.2	-72.8	-9.3	4.5	1.50	1.50	0.00
2,100.0	12.75	187.25	2,093.0	-93.4	-11.9	5.8	1.50	1.50	0.00
2,200.0	14.25	187.25	2,190.3	-116.6	-14.8	7.2	1.50	1.50	0.00
2,300.0	14.25	187.25	2,287.2	-141.0	-17.9	8.8	0.00	0.00	0.00
2,400.0	14.25	187.25	2,384.1	-165.4	-21.1	10.3	0.00	0.00	0.00
2,500.0	14.25	187.25	2,481.0	-189.8	-24.2	11.8	0.00	0.00	0.00
2,600.0	14.25	187.25	2,577.9	-214.3	-27.3	13.3	0.00	0.00	0.00
2,700.0	14.25	187.25	2,674.9	-238.7	-30.4	14.8	0.00	0.00	0.00
2,800.0	14.25	187.25	2,771.8	-263.1	-33.5	16.3	0.00	0.00	0.00
2,900.0	14.25	187.25	2,868.7	-287.5	-36.6	17.8	0.00	0.00	0.00
3,000.0	14.25	187.25	2,965.6	-311.9	-39.7	19.4	0.00	0.00	0.00
3,100.0	14.25	187.25	3,062.5	-336.4	-42.8	20.9	0.00	0.00	0.00
3,200.0	14.25	187.25	3,159.5	-360.8	-45.9	22.4	0.00	0.00	0.00
3,300.0	14.25	187.25	3,256.4	-385.2	-49.0	23.9	0.00	0.00	0.00
3,400.0	14.25	187.25	3,353.3	-409.6	-52.1	25.4	0.00	0.00	0.00
3,500.0	14.25	187.25	3,450.2	-434.0	-55.2	26.9	0.00	0.00	0.00
3,600.0	14.25	187.25	3,547.2	-458.5	-58.4	28.5	0.00	0.00	0.00
3,700.0	14.25	187.25	3,644.1	-482.9	-61.5	30.0	0.00	0.00	0.00
3,800.0	14.25	187.25	3,741.0	-507.3	-64.6	31.5	0.00	0.00	0.00
3,900.0	14.25	187.25	3,837.9	-531.7	-67.7	33.0	0.00	0.00	0.00
4,000.0	14.25	187.25	3,934.8	-556.1	-70.8	34.5	0.00	0.00	0.00
4,100.0	14.25	187.25	4,031.8	-580.5	-73.9	36.0	0.00	0.00	0.00
4,200.0	14.25	187.25	4,128.7	-605.0	-77.0	37.6	0.00	0.00	0.00
4,300.0	14.25	187.25	4,225.6	-629.4	-80.1	39.1	0.00	0.00	0.00
4,400.0	14.25	187.25	4,322.5	-653.8	-83.2	40.6	0.00	0.00	0.00
4,500.0	14.25	187.25	4,419.5	-678.2	-86.3	42.1	0.00	0.00	0.00
4,600.0	14.25	187.25	4,516.4	-702.6	-89.4	43.6	0.00	0.00	0.00
4,700.0	14.25	187.25	4,613.3	-727.1	-92.5	45.1	0.00	0.00	0.00
4,800.0	14.25	187.25	4,710.2	-751.5	-95.7	46.7	0.00	0.00	0.00
4,900.0	14.25	187.25	4,807.2	-775.9	-98.8	48.2	0.00	0.00	0.00
5,000.0	14.25	187.25	4,904.1	-800.3	-101.9	49.7	0.00	0.00	0.00
5,100.0	14.25	187.25	5,001.0	-824.7	-105.0	51.2	0.00	0.00	0.00

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Pavo Frio 29/28 B3OP Fed Com #1H
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Wellbore	BHL: 500' FSL & 100' FEL, Sec 28		
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	14.25	187.25	5,097.9	-849.2	-108.1	52.7	0.00	0.00	0.00
5,300.0	14.25	187.25	5,194.8	-873.6	-111.2	54.2	0.00	0.00	0.00
5,400.0	14.25	187.25	5,291.8	-898.0	-114.3	55.7	0.00	0.00	0.00
5,500.0	14.25	187.25	5,388.7	-922.4	-117.4	57.3	0.00	0.00	0.00
5,600.0	14.25	187.25	5,485.6	-946.8	-120.5	58.8	0.00	0.00	0.00
5,700.0	14.25	187.25	5,582.5	-971.3	-123.6	60.3	0.00	0.00	0.00
5,800.0	14.25	187.25	5,679.5	-995.7	-126.7	61.8	0.00	0.00	0.00
5,900.0	14.25	187.25	5,776.4	-1,020.1	-129.8	63.3	0.00	0.00	0.00
6,000.0	14.25	187.25	5,873.3	-1,044.5	-133.0	64.8	0.00	0.00	0.00
6,100.0	14.25	187.25	5,970.2	-1,068.9	-136.1	66.4	0.00	0.00	0.00
6,200.0	14.25	187.25	6,067.2	-1,093.3	-139.2	67.9	0.00	0.00	0.00
6,300.0	14.25	187.25	6,164.1	-1,117.8	-142.3	69.4	0.00	0.00	0.00
6,400.0	14.25	187.25	6,261.0	-1,142.2	-145.4	70.9	0.00	0.00	0.00
6,500.0	14.25	187.25	6,357.9	-1,166.6	-148.5	72.4	0.00	0.00	0.00
6,600.0	14.25	187.25	6,454.8	-1,191.0	-151.6	73.9	0.00	0.00	0.00
6,700.0	14.25	187.25	6,551.8	-1,215.4	-154.7	75.5	0.00	0.00	0.00
6,800.0	14.25	187.25	6,648.7	-1,239.9	-157.8	77.0	0.00	0.00	0.00
6,900.0	14.25	187.25	6,745.6	-1,264.3	-160.9	78.5	0.00	0.00	0.00
7,000.0	14.25	187.25	6,842.5	-1,288.7	-164.0	80.0	0.00	0.00	0.00
7,100.0	14.25	187.25	6,939.5	-1,313.1	-167.1	81.5	0.00	0.00	0.00
7,200.0	14.25	187.25	7,036.4	-1,337.5	-170.3	83.0	0.00	0.00	0.00
7,300.0	14.25	187.25	7,133.3	-1,362.0	-173.4	84.5	0.00	0.00	0.00
7,303.1	14.25	187.25	7,136.3	-1,362.7	-173.5	84.6	0.00	0.00	0.00
7,400.0	12.80	187.25	7,230.5	-1,385.2	-176.3	86.0	1.50	-1.50	0.00
7,500.0	11.30	187.25	7,328.3	-1,405.9	-179.0	87.3	1.50	-1.50	0.00
7,600.0	9.80	187.25	7,426.6	-1,424.0	-181.3	88.4	1.50	-1.50	0.00
7,700.0	8.30	187.25	7,525.4	-1,439.6	-183.3	89.4	1.50	-1.50	0.00
7,800.0	6.80	187.25	7,624.5	-1,452.7	-184.9	90.2	1.50	-1.50	0.00
7,900.0	5.30	187.25	7,723.9	-1,463.1	-186.2	90.8	1.50	-1.50	0.00
8,000.0	3.80	187.25	7,823.6	-1,471.0	-187.2	91.3	1.50	-1.50	0.00
8,100.0	2.30	187.25	7,923.5	-1,476.3	-187.9	91.6	1.50	-1.50	0.00
8,200.0	0.80	187.25	8,023.4	-1,478.9	-188.3	91.8	1.50	-1.50	0.00
8,253.1	0.00	0.00	8,076.5	-1,479.3	-188.3	91.8	1.50	-1.50	0.00
KOP: 500' FSL & 2628' FEL (29)									
8,300.0	5.63	89.79	8,123.4	-1,479.3	-186.0	94.1	12.00	12.00	0.00
8,400.0	17.63	89.79	8,221.1	-1,479.2	-165.9	113.8	12.00	12.00	0.00
8,500.0	29.63	89.79	8,312.6	-1,479.1	-125.9	153.1	12.00	12.00	0.00
8,542.9	34.78	89.79	8,348.9	-1,479.0	-103.0	175.6	12.00	12.00	0.00
FTP: 500' FSL & 2538' FEL (29)									
8,600.0	41.62	89.79	8,393.7	-1,478.9	-67.7	210.2	12.00	12.00	0.00
8,700.0	53.62	89.79	8,461.0	-1,478.6	6.0	282.6	12.00	12.00	0.00
8,800.0	65.62	89.79	8,511.5	-1,478.3	92.1	367.1	12.00	12.00	0.00
8,900.0	77.62	89.79	8,543.0	-1,477.9	186.8	460.1	12.00	12.00	0.00
8,995.5	89.07	89.79	8,554.0	-1,477.6	281.5	553.0	12.00	12.00	0.00
LP: 500' FSL & 2154' FEL (29)									
9,000.0	89.07	89.79	8,554.1	-1,477.6	286.0	557.5	0.00	0.00	0.00
9,100.0	89.07	89.79	8,555.7	-1,477.2	386.0	655.6	0.00	0.00	0.00
9,200.0	89.07	89.79	8,557.3	-1,476.9	486.0	753.8	0.00	0.00	0.00
9,300.0	89.07	89.79	8,558.9	-1,476.5	586.0	851.9	0.00	0.00	0.00
9,400.0	89.07	89.79	8,560.6	-1,476.1	686.0	950.1	0.00	0.00	0.00
9,500.0	89.07	89.79	8,562.2	-1,475.8	786.0	1,048.2	0.00	0.00	0.00
9,600.0	89.07	89.79	8,563.8	-1,475.4	886.0	1,146.4	0.00	0.00	0.00
9,700.0	89.07	89.79	8,565.4	-1,475.1	985.9	1,244.5	0.00	0.00	0.00

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Pavo Frio 29/28 B3OP Fed Com #1H
Company	Mewbourne Oil Company	TVD Reference	WELL @ 3493.0usft (Original Well Elev)
Project	Eddy County, New Mexico NAD 83	MD Reference	WELL @ 3493.0usft (Original Well Elev)
Site	Pavo Frio 29/28 B3OP Fed Com #1H	North Reference	Grid
Well	Sec 29, T18S, R29E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL: 500' FSL & 100' FEL, Sec 28		
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	89.07	89.79	8,567.0	-1,474.7	1,085.9	1,342.7	0.00	0.00	0.00	
9,900.0	89.07	89.79	8,568.7	-1,474.3	1,185.9	1,440.8	0.00	0.00	0.00	
10,000.0	89.07	89.79	8,570.3	-1,474.0	1,285.9	1,539.0	0.00	0.00	0.00	
10,100.0	89.07	89.79	8,571.9	-1,473.6	1,385.9	1,637.1	0.00	0.00	0.00	
10,200.0	89.07	89.79	8,573.5	-1,473.3	1,485.9	1,735.3	0.00	0.00	0.00	
10,300.0	89.07	89.79	8,575.2	-1,472.9	1,585.9	1,833.5	0.00	0.00	0.00	
10,400.0	89.07	89.79	8,576.8	-1,472.5	1,685.8	1,931.6	0.00	0.00	0.00	
10,500.0	89.07	89.79	8,578.4	-1,472.2	1,785.8	2,029.8	0.00	0.00	0.00	
10,600.0	89.07	89.79	8,580.0	-1,471.8	1,885.8	2,127.9	0.00	0.00	0.00	
10,700.0	89.07	89.79	8,581.6	-1,471.4	1,985.8	2,226.1	0.00	0.00	0.00	
10,800.0	89.07	89.79	8,583.3	-1,471.1	2,085.8	2,324.2	0.00	0.00	0.00	
10,900.0	89.07	89.79	8,584.9	-1,470.7	2,185.8	2,422.4	0.00	0.00	0.00	
11,000.0	89.07	89.79	8,586.5	-1,470.4	2,285.8	2,520.5	0.00	0.00	0.00	
11,100.0	89.07	89.79	8,588.1	-1,470.0	2,385.7	2,618.7	0.00	0.00	0.00	
11,152.1	89.07	89.79	8,589.0	-1,469.8	2,437.8	2,669.8	0.00	0.00	0.00	
PPP2: 500' FSL & 0' FWL (28)										
11,200.0	89.07	89.79	8,589.8	-1,469.6	2,485.7	2,716.8	0.00	0.00	0.00	
11,300.0	89.07	89.79	8,591.4	-1,469.3	2,585.7	2,815.0	0.00	0.00	0.00	
11,400.0	89.07	89.79	8,593.0	-1,468.9	2,685.7	2,913.1	0.00	0.00	0.00	
11,500.0	89.07	89.79	8,594.6	-1,468.6	2,785.7	3,011.3	0.00	0.00	0.00	
11,600.0	89.07	89.79	8,596.2	-1,468.2	2,885.7	3,109.4	0.00	0.00	0.00	
11,700.0	89.07	89.79	8,597.9	-1,467.8	2,985.7	3,207.6	0.00	0.00	0.00	
11,800.0	89.07	89.79	8,599.5	-1,467.5	3,085.6	3,305.7	0.00	0.00	0.00	
11,900.0	89.07	89.79	8,601.1	-1,467.1	3,185.6	3,403.9	0.00	0.00	0.00	
12,000.0	89.07	89.79	8,602.7	-1,466.8	3,285.6	3,502.0	0.00	0.00	0.00	
12,100.0	89.07	89.79	8,604.4	-1,466.4	3,385.6	3,600.2	0.00	0.00	0.00	
12,200.0	89.07	89.79	8,606.0	-1,466.0	3,485.6	3,698.4	0.00	0.00	0.00	
12,300.0	89.07	89.79	8,607.6	-1,465.7	3,585.6	3,796.5	0.00	0.00	0.00	
12,400.0	89.07	89.79	8,609.2	-1,465.3	3,685.6	3,894.7	0.00	0.00	0.00	
12,500.0	89.07	89.79	8,610.8	-1,464.9	3,785.6	3,992.8	0.00	0.00	0.00	
12,600.0	89.07	89.79	8,612.5	-1,464.6	3,885.5	4,091.0	0.00	0.00	0.00	
12,700.0	89.07	89.79	8,614.1	-1,464.2	3,985.5	4,189.1	0.00	0.00	0.00	
12,800.0	89.07	89.79	8,615.7	-1,463.9	4,085.5	4,287.3	0.00	0.00	0.00	
12,900.0	89.07	89.79	8,617.3	-1,463.5	4,185.5	4,385.4	0.00	0.00	0.00	
13,000.0	89.07	89.79	8,618.9	-1,463.1	4,285.5	4,483.6	0.00	0.00	0.00	
13,100.0	89.07	89.79	8,620.6	-1,462.8	4,385.5	4,581.7	0.00	0.00	0.00	
13,200.0	89.07	89.79	8,622.2	-1,462.4	4,485.5	4,679.9	0.00	0.00	0.00	
13,300.0	89.07	89.79	8,623.8	-1,462.1	4,585.4	4,778.0	0.00	0.00	0.00	
13,400.0	89.07	89.79	8,625.4	-1,461.7	4,685.4	4,876.2	0.00	0.00	0.00	
13,500.0	89.07	89.79	8,627.1	-1,461.3	4,785.4	4,974.3	0.00	0.00	0.00	
13,600.0	89.07	89.79	8,628.7	-1,461.0	4,885.4	5,072.5	0.00	0.00	0.00	
13,700.0	89.07	89.79	8,630.3	-1,460.6	4,985.4	5,170.6	0.00	0.00	0.00	
13,800.0	89.07	89.79	8,631.9	-1,460.2	5,085.4	5,268.8	0.00	0.00	0.00	
13,900.0	89.07	89.79	8,633.5	-1,459.9	5,185.4	5,366.9	0.00	0.00	0.00	
14,000.0	89.07	89.79	8,635.2	-1,459.5	5,285.3	5,465.1	0.00	0.00	0.00	
14,100.0	89.07	89.79	8,636.8	-1,459.2	5,385.3	5,563.2	0.00	0.00	0.00	
14,200.0	89.07	89.79	8,638.4	-1,458.8	5,485.3	5,661.4	0.00	0.00	0.00	
14,300.0	89.07	89.79	8,640.0	-1,458.4	5,585.3	5,759.6	0.00	0.00	0.00	
14,400.0	89.07	89.79	8,641.7	-1,458.1	5,685.3	5,857.7	0.00	0.00	0.00	
14,500.0	89.07	89.79	8,643.3	-1,457.7	5,785.3	5,955.9	0.00	0.00	0.00	
14,600.0	89.07	89.79	8,644.9	-1,457.4	5,885.3	6,054.0	0.00	0.00	0.00	
14,700.0	89.07	89.79	8,646.5	-1,457.0	5,985.2	6,152.2	0.00	0.00	0.00	
14,800.0	89.07	89.79	8,648.1	-1,456.6	6,085.2	6,250.3	0.00	0.00	0.00	

Planning Report

Database	Hobbs	Local Co-ordinate Reference	Site Pavo Frio 29/28 B3OP Fed Com #1H
Company	Mewbourne Oil Company	TVD Reference	WELL @ 3493.0usft (Original Well Elev)
Project	Eddy County, New Mexico NAD 83	MD Reference	WELL @ 3493.0usft (Original Well Elev)
Site	Pavo Frio 29/28 B3OP Fed Com #1H	North Reference	Grid
Well	Sec 29, T18S, R29E	Survey Calculation Method	Minimum Curvature
Wellbore	BHL: 500' FSL & 100' FEL, Sec 28		
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)
14,900.0	89.07	89.79	8,649.8	-1,456.3	6,185.2	6,348.5	0.00	0.00	0.00
15,000.0	89.07	89.79	8,651.4	-1,455.9	6,285.2	6,446.6	0.00	0.00	0.00
15,100.0	89.07	89.79	8,653.0	-1,455.6	6,385.2	6,544.8	0.00	0.00	0.00
15,107.2	89.07	89.79	8,653.1	-1,455.5	6,392.4	6,551.8	0.00	0.00	0.00
PPP3: 500' FSL & 1320' FEL (28)									
15,200.0	89.07	89.79	8,654.6	-1,455.2	6,485.2	6,642.9	0.00	0.00	0.00
15,300.0	89.07	89.79	8,656.2	-1,454.8	6,585.2	6,741.1	0.00	0.00	0.00
15,400.0	89.07	89.79	8,657.9	-1,454.5	6,685.2	6,839.2	0.00	0.00	0.00
15,500.0	89.07	89.79	8,659.5	-1,454.1	6,785.1	6,937.4	0.00	0.00	0.00
15,600.0	89.07	89.79	8,661.1	-1,453.7	6,885.1	7,035.5	0.00	0.00	0.00
15,700.0	89.07	89.79	8,662.7	-1,453.4	6,985.1	7,133.7	0.00	0.00	0.00
15,800.0	89.07	89.79	8,664.4	-1,453.0	7,085.1	7,231.8	0.00	0.00	0.00
15,900.0	89.07	89.79	8,666.0	-1,452.7	7,185.1	7,330.0	0.00	0.00	0.00
16,000.0	89.07	89.79	8,667.6	-1,452.3	7,285.1	7,428.1	0.00	0.00	0.00
16,100.0	89.07	89.79	8,669.2	-1,451.9	7,385.1	7,526.3	0.00	0.00	0.00
16,200.0	89.07	89.79	8,670.8	-1,451.6	7,485.0	7,624.5	0.00	0.00	0.00
16,300.0	89.07	89.79	8,672.5	-1,451.2	7,585.0	7,722.6	0.00	0.00	0.00
16,332.9	89.07	89.79	8,673.0	-1,451.1	7,617.9	7,754.9	0.00	0.00	0.00
BHL: 500' FSL & 100' FEL (28)									

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: 1980' FSL & 2435' F - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	624,519.30	614,250.30	32.7166199	-104.0962595
KOP: 500' FSL & 2628' F - plan hits target center - Point	0.00	0.00	8,076.5	-1,479.3	-188.3	623,040.00	614,062.00	32.7125550	-104.0968825
FTP: 500' FSL & 2538' F - plan hits target center - Point	0.00	0.00	8,348.9	-1,479.0	-103.0	623,040.31	614,147.30	32.7125553	-104.0966052
LP: 500' FSL & 2154' FE - plan hits target center - Point	0.00	0.00	8,554.0	-1,477.6	281.5	623,041.70	614,531.80	32.7125568	-104.0953550
PPP2: 500' FSL & 0' FW - plan hits target center - Point	0.00	0.00	8,589.0	-1,469.8	2,437.8	623,049.49	616,688.10	32.7125647	-104.0883442
PPP3: 500' FSL & 1320' F - plan hits target center - Point	0.00	0.01	8,653.1	-1,455.5	6,392.4	623,063.78	620,642.70	32.7125781	-104.0754865
BHL: 500' FSL & 100' FE - plan hits target center - Point	0.00	0.00	8,673.0	-1,451.1	7,617.9	623,068.20	621,868.20	32.7125821	-104.0715020