

OCD Hobbs

ATS-14-747

HOBBS OCD

FORM APPROVED
OMB No. 1004-0137
Expires October 31, 2014

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

NOV 25 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER
RECEIVED

1a. Type of work: ☒ DRILL ☐ REENTER		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone		8. Lease Name and Well No. Perro Loco 22 B308 Federal #1H (73906)	
2. Name of Operator Mewbourne Oil Company (14744)		9. API Well No. 30025-42288	
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-393-5905	10. Field and Pool, or Exploratory Ojo Chiso Bone Spring (97283) (96553)	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface 185' FSL & 1980' FEL, Sec. 22 T22S R34E (0) At proposed prod. zone 330' FNL & 1980' FEL, Sec. 22 T22S R34E (9)		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 22 T22S R34E	
14. Distance in miles and direction from nearest town or post office* 29 miles SW of Hobbs, NM		12. County or Parish Lea	13. State NM
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease 320 acres	17. Spacing Unit dedicated to this well 160	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 15,713' - MD 11,149' - TVD	20. BLM/BIA Bond No. on file NM-1693 nationwide, NMB-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3419' - GL	22. Approximate date work will start* 06/15/2014	23. Estimated duration 60 days	

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, must be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature Bradley Bishop	Name (Printed/Typed) Bradley Bishop	Date 05/05/2014
Title		

Approved by (Signature) Steve Caffey	Name (Printed/Typed)	Date NOV 24 2014
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

*(Instructions on page 2)

Capitan Controlled Water Basin

Ka
11/25/14

T.M.

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

DEC 01 2014

Drilling Program
Mewbourne Oil Company
 Perro Loco 22 B3OB Federal #1H
 185' FSL & 1980' FEL
 Sec 22-T22S-R34E
 Lea County, New Mexico

1. The estimated tops of geological markers are as follows:

Rustler	1740'
Top Salt	1875'
Base Salt/Castile	3350'
Yates	3470'
Captain	3975'
Seven Rivers	NP
Queen	NP
Grayburg	NP
San Andres	NP
*Delaware(Lamar)	5690'
*Bone Spring	8500'
1 st Bone Spring Sand	9580'
2 nd Bone Spring Sand	10080'
3 rd Bone Spring Sand	10920'

Captain

2. Estimated depths of anticipated fresh water, oil, or gas:

Water	Fresh water is anticipated at 75' and will be protected by setting surface casing at 1765' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP annular will be installed after running 13 3/8" casing. A 3000# WP double ram BOP and 3000# WP Annular will be installed after running 9 5/8" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOPs will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.

Will test the 13 3/8" annular to 1500# and the 9 5/8" BOPE to 3000# and annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. Drilling Program:

MOC proposes to drill a vertical wellbore to 10672' & kick off to horizontal @ 11149' TVD. The well will be drilled to 15713' MD (11149' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

Hole Size	Casing	Wt/Ft.	Grade	Depth	Jt Type
17 1/2"	13 3/8" (new)	48#	H40	0'-1765'	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-3100'	LT&C
12 1/4"	9 5/8" (new)	40#	J55	3100'-4200'	LT&C
12 1/4"	9 5/8" (new)	40#	N80	4200'-5600'	LT&C
External csg packer & DV tool @ 3900'					
8 3/4"	7" (new)	26#	P110	0'-10672' MD	LT&C
8 3/4"	7" (new)	26#	P110	10672'-11422' MD	BT&C
8 3/4"	7" (new)	26#	P110	11422'-15713' MD	LT&C

all casings will be fluid filled per Bradley Bishop
 8/14/14

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8.

*Subject to availability of casing.

B. Cementing Program:

- i. Surface Casing: 1100 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/ 2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to surface w/100% excess.
- ii. Intermediate Casing:
1st Stage: 250 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to 3900' w/25% excess.
External casing packer & DV tool @ 3900'.
2nd Stage: 625 sacks Class "C" (35:65:4) light cement w/ salt and LCM additives. Yield at 2.0 cuft/sk. Mix water @ 11.17 gal/sk. 100 sacks Class "C" cement w/2% CaCl₂. Yield at 1.34 cuft/sk. Mix water @ 6.33 gal/sk. Cmt circulated to Surface w/25% excess.
- iii. Production Casing: 1100 sacks Class H light cement with fluid loss, LCM, & salt additives. Yield at 2.12 cuft/sk. Mix water @ 11.31 gal/sk. Tail w/1150 sacks Class H cmt. Yield at 1.22 cuft/sk. Mix water @ 5.34 gal/sk. Calculated to tie back 50' above the top of the Captain Reef @ 3925' w/25% excess.

See
COA

*Referring to above blends of light cement: (wt% fly ash : wt% cement : wt% bentonite of the total of first two numbers). Generic names of additives are used since the availability of specific company and products are unknown at this time.

6. Mud Program:

See
COA

Interval	Type System	Weight	Viscosity	Fluid Loss
0'-1765'	FW spud mud	8.6-9.0	32-34	NA
1765'-5300'	Brine water	10.0-10.2	28-30	NA
5300'-10672'(KOP)	FW	8.5-8.7	28-30	NA
10672'- TD	FW w/Polymer	8.5-8.7	32-35	15

*Visual mud monitoring system shall be in place to detect volume changes indicating loss or gain of circulation fluid volume. Sufficient mud materials will be kept on location at all times to combat abnormal conditions.

7. Evaluation Program:

Samples: 10' samples from surface casing to TD
Logging: GR, CN & Gyro 100' above KOP (10572') to surface. GR from 10572' to TD.

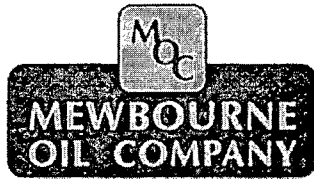
8. Downhole Conditions

See COA

Zones of abnormal pressure:	None anticipated
Zones of lost circulation:	Anticipated in surface and intermediate holes
Maximum bottom hole temperature:	120 degree F
Maximum bottom hole pressure:	8.3 lbs/gal gradient or less ($.43368 \times 11149' = 4835$ psi)

9. Anticipated Starting Date:

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 60 days involved in drilling operations and an additional 20 days involved in completion operations on the project.



Mewbourne Oil Company .

Lea County N.M.

Section 22-22S-34E Perro Loco 22 B3OB Fed #1H

Perro Loco 22 B3OB Fed #1H

Original hole

Plan: Plan#1

Standard Planning Report

04 May, 2014





Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#1		

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H		
Site Position:		Northing:	499,552.50 usft
From:	Map	Easting:	771,095.40 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 22' 13.179 N
		Longitude:	103° 27' 19.024 W
		Grid Convergence:	0.47 °

Well	Perro Loco 22 B3OB Fed #1H		
Well Position	+N/-S	0.0 usft	Northing: 499,552.50 usft
	+E/-W	0.0 usft	Easting: 771,095.40 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft
		Latitude:	32° 22' 13.179 N
		Longitude:	103° 27' 19.024 W
		Ground Level:	3,419.0 usft

Wellbore	Original hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/4/2014	7.19	60.27	48,428

Design	Plan#1		
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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	359.66

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	
10,671.5	0.00	0.00	10,671.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,421.5	90.00	359.66	11,149.0	477.5	-2.9	12.00	12.00	-0.05	359.66	
15,712.7	90.00	359.66	11,149.0	4,768.6	-28.6	0.00	0.00	0.00	0.00	PBHL Perro Loco 2



Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#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
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	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00



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Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#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)
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00



Stryker Directional Planning Report



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#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)
10,600.0	0.00	0.00	10,600.0	0.0	0.0	0.0	0.00	0.00	0.00
10,671.5	0.00	0.00	10,671.5	0.0	0.0	0.0	0.00	0.00	0.00
10671.5 MD KOP									
10,675.0	0.42	359.66	10,675.0	0.0	0.0	0.0	12.00	12.00	0.00
10,700.0	3.42	359.66	10,700.0	0.9	0.0	0.9	12.00	12.00	0.00
10,725.0	6.42	359.66	10,724.9	3.0	0.0	3.0	12.00	12.00	0.00
10,750.0	9.42	359.66	10,749.6	6.4	0.0	6.4	12.00	12.00	0.00
10,775.0	12.42	359.66	10,774.2	11.2	-0.1	11.2	12.00	12.00	0.00
10,800.0	15.42	359.66	10,798.5	17.2	-0.1	17.2	12.00	12.00	0.00
10,825.0	18.42	359.66	10,822.4	24.5	-0.1	24.5	12.00	12.00	0.00
10,850.0	21.42	359.66	10,845.9	33.0	-0.2	33.0	12.00	12.00	0.00
10,875.0	24.42	359.66	10,868.9	42.7	-0.3	42.7	12.00	12.00	0.00
10,900.0	27.42	359.66	10,891.4	53.6	-0.3	53.6	12.00	12.00	0.00
10,925.0	30.42	359.66	10,913.3	65.7	-0.4	65.7	12.00	12.00	0.00
10,950.0	33.42	359.66	10,934.5	78.9	-0.5	78.9	12.00	12.00	0.00
10,975.0	36.42	359.66	10,955.0	93.3	-0.6	93.3	12.00	12.00	0.00
11,000.0	39.42	359.66	10,974.7	108.6	-0.7	108.6	12.00	12.00	0.00
11,025.0	42.42	359.66	10,993.6	125.0	-0.7	125.0	12.00	12.00	0.00
11,050.0	45.42	359.66	11,011.6	142.3	-0.9	142.3	12.00	12.00	0.00
11,075.0	48.42	359.66	11,028.7	160.6	-1.0	160.6	12.00	12.00	0.00
11,100.0	51.42	359.66	11,044.8	179.7	-1.1	179.7	12.00	12.00	0.00
11,125.0	54.42	359.66	11,059.8	199.7	-1.2	199.7	12.00	12.00	0.00
11,150.0	57.42	359.66	11,073.8	220.4	-1.3	220.4	12.00	12.00	0.00
11,175.0	60.42	359.66	11,086.7	241.8	-1.4	241.8	12.00	12.00	0.00
11,200.0	63.42	359.66	11,098.5	263.8	-1.6	263.8	12.00	12.00	0.00
11,225.0	66.42	359.66	11,109.1	286.5	-1.7	286.5	12.00	12.00	0.00
11,250.0	69.42	359.66	11,118.5	309.6	-1.9	309.6	12.00	12.00	0.00
11,275.0	72.42	359.66	11,126.7	333.2	-2.0	333.3	12.00	12.00	0.00
11,300.0	75.42	359.66	11,133.6	357.3	-2.1	357.3	12.00	12.00	0.00
11,325.0	78.42	359.66	11,139.2	381.6	-2.3	381.6	12.00	12.00	0.00
11,350.0	81.42	359.66	11,143.6	406.2	-2.4	406.2	12.00	12.00	0.00
11,375.0	84.42	359.66	11,146.7	431.0	-2.6	431.0	12.00	12.00	0.00
11,400.0	87.42	359.66	11,148.5	456.0	-2.7	456.0	12.00	12.00	0.00
11,421.5	90.00	359.66	11,149.0	477.5	-2.9	477.5	12.00	12.00	0.00
11421.5 MD LP									
11,422.1	90.00	359.66	11,149.0	478.1	-2.9	478.1	0.00	0.00	0.00
LP Perro Loco 22 B3OB Fed #1H									
11,500.0	90.00	359.66	11,149.0	556.0	-3.3	556.0	0.00	0.00	0.00
11,600.0	90.00	359.66	11,149.0	656.0	-3.9	656.0	0.00	0.00	0.00
11,700.0	90.00	359.66	11,149.0	756.0	-4.5	756.0	0.00	0.00	0.00
11,800.0	90.00	359.66	11,149.0	855.9	-5.1	856.0	0.00	0.00	0.00
11,900.0	90.00	359.66	11,149.0	955.9	-5.7	956.0	0.00	0.00	0.00
12,000.0	90.00	359.66	11,149.0	1,055.9	-6.3	1,056.0	0.00	0.00	0.00
12,100.0	90.00	359.66	11,149.0	1,155.9	-6.9	1,156.0	0.00	0.00	0.00
12,200.0	90.00	359.66	11,149.0	1,255.9	-7.5	1,256.0	0.00	0.00	0.00
12,300.0	90.00	359.66	11,149.0	1,355.9	-8.1	1,356.0	0.00	0.00	0.00
12,400.0	90.00	359.66	11,149.0	1,455.9	-8.7	1,456.0	0.00	0.00	0.00
12,500.0	90.00	359.66	11,149.0	1,555.9	-9.3	1,556.0	0.00	0.00	0.00
12,600.0	90.00	359.66	11,149.0	1,655.9	-9.9	1,656.0	0.00	0.00	0.00
12,700.0	90.00	359.66	11,149.0	1,755.9	-10.5	1,756.0	0.00	0.00	0.00
12,800.0	90.00	359.66	11,149.0	1,855.9	-11.1	1,856.0	0.00	0.00	0.00
12,900.0	90.00	359.66	11,149.0	1,955.9	-11.7	1,956.0	0.00	0.00	0.00
13,000.0	90.00	359.66	11,149.0	2,055.9	-12.3	2,056.0	0.00	0.00	0.00



Stryker Directional Planning Report

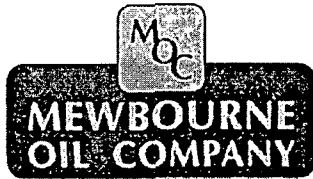


Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan #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)
13,100.0	90.00	359.66	11,149.0	2,155.9	-12.9	2,156.0	0.00	0.00	0.00
13,200.0	90.00	359.66	11,149.0	2,255.9	-13.5	2,256.0	0.00	0.00	0.00
13,300.0	90.00	359.66	11,149.0	2,355.9	-14.1	2,356.0	0.00	0.00	0.00
13,400.0	90.00	359.66	11,149.0	2,455.9	-14.7	2,456.0	0.00	0.00	0.00
13,500.0	90.00	359.66	11,149.0	2,555.9	-15.3	2,556.0	0.00	0.00	0.00
13,600.0	90.00	359.66	11,149.0	2,655.9	-15.9	2,656.0	0.00	0.00	0.00
13,700.0	90.00	359.66	11,149.0	2,755.9	-16.5	2,756.0	0.00	0.00	0.00
13,800.0	90.00	359.66	11,149.0	2,855.9	-17.1	2,856.0	0.00	0.00	0.00
13,900.0	90.00	359.66	11,149.0	2,955.9	-17.7	2,956.0	0.00	0.00	0.00
14,000.0	90.00	359.66	11,149.0	3,055.9	-18.3	3,056.0	0.00	0.00	0.00
14,100.0	90.00	359.66	11,149.0	3,155.9	-18.9	3,156.0	0.00	0.00	0.00
14,200.0	90.00	359.66	11,149.0	3,255.9	-19.5	3,256.0	0.00	0.00	0.00
14,300.0	90.00	359.66	11,149.0	3,355.9	-20.1	3,356.0	0.00	0.00	0.00
14,400.0	90.00	359.66	11,149.0	3,455.9	-20.7	3,456.0	0.00	0.00	0.00
14,500.0	90.00	359.66	11,149.0	3,555.9	-21.3	3,556.0	0.00	0.00	0.00
14,600.0	90.00	359.66	11,149.0	3,655.9	-21.9	3,656.0	0.00	0.00	0.00
14,700.0	90.00	359.66	11,149.0	3,755.9	-22.5	3,756.0	0.00	0.00	0.00
14,800.0	90.00	359.66	11,149.0	3,855.9	-23.1	3,856.0	0.00	0.00	0.00
14,900.0	90.00	359.66	11,149.0	3,955.9	-23.7	3,956.0	0.00	0.00	0.00
15,000.0	90.00	359.66	11,149.0	4,055.9	-24.3	4,056.0	0.00	0.00	0.00
15,100.0	90.00	359.66	11,149.0	4,155.9	-24.9	4,156.0	0.00	0.00	0.00
15,200.0	90.00	359.66	11,149.0	4,255.9	-25.5	4,256.0	0.00	0.00	0.00
15,300.0	90.00	359.66	11,149.0	4,355.9	-26.1	4,356.0	0.00	0.00	0.00
15,400.0	90.00	359.66	11,149.0	4,455.9	-26.7	4,456.0	0.00	0.00	0.00
15,500.0	90.00	359.66	11,149.0	4,555.9	-27.3	4,556.0	0.00	0.00	0.00
15,600.0	90.00	359.66	11,149.0	4,655.9	-27.9	4,656.0	0.00	0.00	0.00
15,700.0	90.00	359.66	11,149.0	4,755.9	-28.5	4,756.0	0.00	0.00	0.00
15,712.7	90.00	359.66	11,149.0	4,768.6	-28.6	4,768.7	0.00	0.00	0.00
15712.7 MD PBHL PBHL Perro Loco 22 B3OB Fed #1H									

Design Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N-S (usft)	+E-W (usft)	Northing (usft)	Easting (usft)	Latitude Longitude
LP Perro Loco 22 B3C	- hit/miss target	0.00	0.00	11,149.0	478.1	-2.9	500,030.56	771,092.50	32° 22' 17.910 N 103° 27' 19.012 W
- plan hits target center	- Shape								
- Point									
PBHL Perro Loco 22 I	- hit/miss target	0.00	0.00	11,149.0	4,768.6	-28.6	504,321.07	771,066.85	32° 23' 0.366 N 103° 27' 18.901 W
- plan hits target center	- Shape								
- Point									

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N-S (usft)	+E-W (usft)	Comment
10,671.5	10,671.5	0.0	0.0	10671.5' MD KOP
11,421.5	11,149.0	477.5	-2.9	11421.5' MD LP
15,712.7	11,149.0	4,768.6	-28.6	15712.7' MD PBHL



Mewbourne Oil Company .

Lea County N.M.

Section 22-22S-34E Perro Loco 22 B3OB Fed #1H

Perro Loco 22 B3OB Fed #1H

Original hole

Plan: Plan#1

Standard Planning Report - Geographic

04 May, 2014





Stryker Directional Planning Report - Geographic



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid:
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#1		

Project	Lea County N.M.		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H		
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Site Position:		Northing:	499,552.50 usft	Latitude:	32° 22' 13.179 N
From:	Map	Easting:	771,095.40 usft	Longitude:	103° 27' 19.024 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well:	Perro Loco 22 B3OB Fed #1H		
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Well Position	+N/-S	0.0 usft	Northings:	499,552.50 usft	Latitude:	32° 22' 13.179 N
	+E/-W	0.0 usft	Easting:	771,095.40 usft	Longitude:	103° 27' 19.024 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	3,419.0 usft	

Wellbore	Original hole		
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/4/2014	7.19	60.27	48,428

Design	Plan#1		
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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	359.66

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	
10,671.5	0.00	0.00	10,671.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,421.5	90.00	359.66	11,149.0	477.5	-2.9	12.00	12.00	-0.05	359.66	
15,712.7	90.00	359.66	11,149.0	4,768.6	-28.6	0.00	0.00	0.00	0.00	PBHL Perro Loco 2



Stryker Directional

Planning Report - Geographic



Database:	Stryker EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-2S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
100.0	0.00	0.00	100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
200.0	0.00	0.00	200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
300.0	0.00	0.00	300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
400.0	0.00	0.00	400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
500.0	0.00	0.00	500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
600.0	0.00	0.00	600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
700.0	0.00	0.00	700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
800.0	0.00	0.00	800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
900.0	0.00	0.00	900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,700.0	0.00	0.00	1,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,800.0	0.00	0.00	1,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
1,900.0	0.00	0.00	1,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,200.0	0.00	0.00	3,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,300.0	0.00	0.00	3,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,400.0	0.00	0.00	3,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
3,900.0	0.00	0.00	3,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,600.0	0.00	0.00	4,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,700.0	0.00	0.00	4,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,800.0	0.00	0.00	4,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W



Stryker Directional Planning Report - Geographic



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,400.0	0.00	0.00	5,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,500.0	0.00	0.00	5,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,600.0	0.00	0.00	5,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,700.0	0.00	0.00	5,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,800.0	0.00	0.00	5,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
5,900.0	0.00	0.00	5,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,000.0	0.00	0.00	6,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,100.0	0.00	0.00	6,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,200.0	0.00	0.00	6,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,300.0	0.00	0.00	6,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,400.0	0.00	0.00	6,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,500.0	0.00	0.00	6,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,600.0	0.00	0.00	6,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,700.0	0.00	0.00	6,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,800.0	0.00	0.00	6,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
6,900.0	0.00	0.00	6,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,000.0	0.00	0.00	7,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,100.0	0.00	0.00	7,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,200.0	0.00	0.00	7,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,300.0	0.00	0.00	7,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,400.0	0.00	0.00	7,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,500.0	0.00	0.00	7,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,600.0	0.00	0.00	7,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,700.0	0.00	0.00	7,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,800.0	0.00	0.00	7,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
7,900.0	0.00	0.00	7,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,000.0	0.00	0.00	8,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,100.0	0.00	0.00	8,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,200.0	0.00	0.00	8,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,300.0	0.00	0.00	8,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,400.0	0.00	0.00	8,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,500.0	0.00	0.00	8,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,600.0	0.00	0.00	8,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,700.0	0.00	0.00	8,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,800.0	0.00	0.00	8,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
8,900.0	0.00	0.00	8,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,000.0	0.00	0.00	9,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,100.0	0.00	0.00	9,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,200.0	0.00	0.00	9,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,300.0	0.00	0.00	9,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,400.0	0.00	0.00	9,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,500.0	0.00	0.00	9,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,600.0	0.00	0.00	9,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,700.0	0.00	0.00	9,700.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,800.0	0.00	0.00	9,800.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
9,900.0	0.00	0.00	9,900.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,000.0	0.00	0.00	10,000.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,100.0	0.00	0.00	10,100.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,200.0	0.00	0.00	10,200.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,300.0	0.00	0.00	10,300.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,400.0	0.00	0.00	10,400.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,500.0	0.00	0.00	10,500.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,600.0	0.00	0.00	10,600.0	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W



Stryker Directional Planning Report - Geographic



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
10,671.5	0.00	0.00	10,671.5	0.0	0.0	499,552.50	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10671.5' MD KOP									
10,675.0	0.42	359.66	10,675.0	0.0	0.0	499,552.51	771,095.40	32° 22' 13.179 N	103° 27' 19.024 W
10,700.0	3.42	359.66	10,700.0	0.9	0.0	499,553.35	771,095.39	32° 22' 13.188 N	103° 27' 19.024 W
10,725.0	6.42	359.66	10,724.9	3.0	0.0	499,555.50	771,095.38	32° 22' 13.209 N	103° 27' 19.024 W
10,750.0	9.42	359.66	10,749.6	6.4	0.0	499,558.94	771,095.36	32° 22' 13.243 N	103° 27' 19.024 W
10,775.0	12.42	359.66	10,774.2	11.2	-0.1	499,563.67	771,095.33	32° 22' 13.290 N	103° 27' 19.024 W
10,800.0	15.42	359.66	10,798.5	17.2	-0.1	499,569.69	771,095.29	32° 22' 13.349 N	103° 27' 19.024 W
10,825.0	18.42	359.66	10,822.4	24.5	-0.1	499,576.96	771,095.25	32° 22' 13.421 N	103° 27' 19.023 W
10,850.0	21.42	359.66	10,845.9	33.0	-0.2	499,585.48	771,095.20	32° 22' 13.505 N	103° 27' 19.023 W
10,875.0	24.42	359.66	10,868.9	42.7	-0.3	499,595.21	771,095.14	32° 22' 13.602 N	103° 27' 19.023 W
10,900.0	27.42	359.66	10,891.4	53.6	-0.3	499,606.14	771,095.08	32° 22' 13.710 N	103° 27' 19.023 W
10,925.0	30.42	359.66	10,913.3	65.7	-0.4	499,618.23	771,095.00	32° 22' 13.830 N	103° 27' 19.022 W
10,950.0	33.42	359.66	10,934.5	78.9	-0.5	499,631.45	771,094.92	32° 22' 13.960 N	103° 27' 19.022 W
10,975.0	36.42	359.66	10,955.0	93.3	-0.6	499,645.75	771,094.84	32° 22' 14.102 N	103° 27' 19.022 W
11,000.0	39.42	359.66	10,974.7	108.6	-0.7	499,661.12	771,094.75	32° 22' 14.254 N	103° 27' 19.021 W
11,025.0	42.42	359.66	10,993.6	125.0	-0.7	499,677.49	771,094.65	32° 22' 14.416 N	103° 27' 19.021 W
11,050.0	45.42	359.66	11,011.6	142.3	-0.9	499,694.83	771,094.55	32° 22' 14.588 N	103° 27' 19.020 W
11,075.0	48.42	359.66	11,028.7	160.6	-1.0	499,713.09	771,094.44	32° 22' 14.768 N	103° 27' 19.020 W
11,100.0	51.42	359.66	11,044.8	179.7	-1.1	499,732.21	771,094.32	32° 22' 14.957 N	103° 27' 19.019 W
11,125.0	54.42	359.66	11,059.8	199.7	-1.2	499,752.15	771,094.20	32° 22' 15.155 N	103° 27' 19.019 W
11,150.0	57.42	359.66	11,073.8	220.4	-1.3	499,772.86	771,094.08	32° 22' 15.360 N	103° 27' 19.018 W
11,175.0	60.42	359.66	11,086.7	241.8	-1.4	499,794.27	771,093.95	32° 22' 15.572 N	103° 27' 19.018 W
11,200.0	63.42	359.66	11,098.5	263.8	-1.6	499,816.32	771,093.82	32° 22' 15.790 N	103° 27' 19.017 W
11,225.0	66.42	359.66	11,109.1	286.5	-1.7	499,838.96	771,093.68	32° 22' 16.014 N	103° 27' 19.017 W
11,250.0	69.42	359.66	11,118.5	309.6	-1.9	499,862.12	771,093.54	32° 22' 16.243 N	103° 27' 19.016 W
11,275.0	72.42	359.66	11,126.7	333.2	-2.0	499,885.75	771,093.40	32° 22' 16.477 N	103° 27' 19.015 W
11,300.0	75.42	359.66	11,133.6	357.3	-2.1	499,909.77	771,093.26	32° 22' 16.714 N	103° 27' 19.015 W
11,325.0	78.42	359.66	11,139.2	381.6	-2.3	499,934.11	771,093.11	32° 22' 16.955 N	103° 27' 19.014 W
11,350.0	81.42	359.66	11,143.6	406.2	-2.4	499,958.73	771,092.97	32° 22' 17.199 N	103° 27' 19.014 W
11,375.0	84.42	359.66	11,146.7	431.0	-2.6	499,983.53	771,092.82	32° 22' 17.444 N	103° 27' 19.013 W
11,400.0	87.42	359.66	11,148.5	456.0	-2.7	500,008.47	771,092.67	32° 22' 17.691 N	103° 27' 19.012 W
11,421.5	90.00	359.66	11,149.0	477.5	-2.9	500,029.96	771,092.54	32° 22' 17.904 N	103° 27' 19.012 W
11421.5' MD LP									
11,422.1	90.00	359.66	11,149.0	478.1	-2.9	500,030.56	771,092.53	32° 22' 17.910 N	103° 27' 19.012 W
LP Perro Loco 22 B3OB Fed #1H									
11,500.0	90.00	359.66	11,149.0	556.0	-3.3	500,108.46	771,092.07	32° 22' 18.681 N	103° 27' 19.010 W
11,600.0	90.00	359.66	11,149.0	656.0	-3.9	500,208.45	771,091.47	32° 22' 19.670 N	103° 27' 19.007 W
11,700.0	90.00	359.66	11,149.0	756.0	-4.5	500,308.45	771,090.87	32° 22' 20.660 N	103° 27' 19.004 W
11,800.0	90.00	359.66	11,149.0	855.9	-5.1	500,408.45	771,090.27	32° 22' 21.649 N	103° 27' 19.002 W
11,900.0	90.00	359.66	11,149.0	955.9	-5.7	500,508.45	771,089.67	32° 22' 22.639 N	103° 27' 18.999 W
12,000.0	90.00	359.66	11,149.0	1,055.9	-6.3	500,608.45	771,089.08	32° 22' 23.628 N	103° 27' 18.997 W
12,100.0	90.00	359.66	11,149.0	1,155.9	-6.9	500,708.45	771,088.48	32° 22' 24.618 N	103° 27' 18.994 W
12,200.0	90.00	359.66	11,149.0	1,255.9	-7.5	500,808.44	771,087.88	32° 22' 25.607 N	103° 27' 18.992 W
12,300.0	90.00	359.66	11,149.0	1,355.9	-8.1	500,908.44	771,087.28	32° 22' 26.597 N	103° 27' 18.989 W
12,400.0	90.00	359.66	11,149.0	1,455.9	-8.7	501,008.44	771,086.68	32° 22' 27.586 N	103° 27' 18.986 W
12,500.0	90.00	359.66	11,149.0	1,555.9	-9.3	501,108.44	771,086.08	32° 22' 28.576 N	103° 27' 18.984 W
12,600.0	90.00	359.66	11,149.0	1,655.9	-9.9	501,208.44	771,085.48	32° 22' 29.565 N	103° 27' 18.981 W
12,700.0	90.00	359.66	11,149.0	1,755.9	-10.5	501,308.43	771,084.88	32° 22' 30.555 N	103° 27' 18.979 W
12,800.0	90.00	359.66	11,149.0	1,855.9	-11.1	501,408.43	771,084.29	32° 22' 31.544 N	103° 27' 18.976 W
12,900.0	90.00	359.66	11,149.0	1,955.9	-11.7	501,508.43	771,083.69	32° 22' 32.534 N	103° 27' 18.973 W
13,000.0	90.00	359.66	11,149.0	2,055.9	-12.3	501,608.43	771,083.09	32° 22' 33.524 N	103° 27' 18.971 W
13,100.0	90.00	359.66	11,149.0	2,155.9	-12.9	501,708.43	771,082.49	32° 22' 34.513 N	103° 27' 18.968 W



Stryker Directional Planning Report - Geographic



Database:	Stryker_EDM	Local Co-ordinate Reference:	Well Perro Loco 22 B3OB Fed #1H
Company:	Mewbourne Oil Company	TVD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Project:	Lea County N.M.	MD Reference:	GL 3419 + 20 @ 3439.0usft (Patterson 36)
Site:	Section 22-22S-34E Perro Loco 22 B3OB Fed #1H	North Reference:	Grid
Well:	Perro Loco 22 B3OB Fed #1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original hole		
Design:	Plan#1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
13,200.0	90.00	359.66	11,149.0	2,255.9	-13.5	501,808.43	771,081.89	32° 22' 35.503 N	103° 27' 18.966 W
13,300.0	90.00	359.66	11,149.0	2,355.9	-14.1	501,908.42	771,081.29	32° 22' 36.492 N	103° 27' 18.963 W
13,400.0	90.00	359.66	11,149.0	2,455.9	-14.7	502,008.42	771,080.69	32° 22' 37.482 N	103° 27' 18.960 W
13,500.0	90.00	359.66	11,149.0	2,555.9	-15.3	502,108.42	771,080.09	32° 22' 38.471 N	103° 27' 18.958 W
13,600.0	90.00	359.66	11,149.0	2,655.9	-15.9	502,208.42	771,079.50	32° 22' 39.461 N	103° 27' 18.955 W
13,700.0	90.00	359.66	11,149.0	2,755.9	-16.5	502,308.42	771,078.90	32° 22' 40.450 N	103° 27' 18.953 W
13,800.0	90.00	359.66	11,149.0	2,855.9	-17.1	502,408.41	771,078.30	32° 22' 41.440 N	103° 27' 18.950 W
13,900.0	90.00	359.66	11,149.0	2,955.9	-17.7	502,508.41	771,077.70	32° 22' 42.429 N	103° 27' 18.948 W
14,000.0	90.00	359.66	11,149.0	3,055.9	-18.3	502,608.41	771,077.10	32° 22' 43.419 N	103° 27' 18.945 W
14,100.0	90.00	359.66	11,149.0	3,155.9	-18.9	502,708.41	771,076.50	32° 22' 44.408 N	103° 27' 18.942 W
14,200.0	90.00	359.66	11,149.0	3,255.9	-19.5	502,808.41	771,075.90	32° 22' 45.398 N	103° 27' 18.940 W
14,300.0	90.00	359.66	11,149.0	3,355.9	-20.1	502,908.41	771,075.30	32° 22' 46.387 N	103° 27' 18.937 W
14,400.0	90.00	359.66	11,149.0	3,455.9	-20.7	503,008.40	771,074.71	32° 22' 47.377 N	103° 27' 18.935 W
14,500.0	90.00	359.66	11,149.0	3,555.9	-21.3	503,108.40	771,074.11	32° 22' 48.366 N	103° 27' 18.932 W
14,600.0	90.00	359.66	11,149.0	3,655.9	-21.9	503,208.40	771,073.51	32° 22' 49.356 N	103° 27' 18.929 W
14,700.0	90.00	359.66	11,149.0	3,755.9	-22.5	503,308.40	771,072.91	32° 22' 50.345 N	103° 27' 18.927 W
14,800.0	90.00	359.66	11,149.0	3,855.9	-23.1	503,408.40	771,072.31	32° 22' 51.335 N	103° 27' 18.924 W
14,900.0	90.00	359.66	11,149.0	3,955.9	-23.7	503,508.40	771,071.71	32° 22' 52.325 N	103° 27' 18.922 W
15,000.0	90.00	359.66	11,149.0	4,055.9	-24.3	503,608.39	771,071.11	32° 22' 53.314 N	103° 27' 18.919 W
15,100.0	90.00	359.66	11,149.0	4,155.9	-24.9	503,708.39	771,070.51	32° 22' 54.304 N	103° 27' 18.916 W
15,200.0	90.00	359.66	11,149.0	4,255.9	-25.5	503,808.39	771,069.92	32° 22' 55.293 N	103° 27' 18.914 W
15,300.0	90.00	359.66	11,149.0	4,355.9	-26.1	503,908.39	771,069.32	32° 22' 56.283 N	103° 27' 18.911 W
15,400.0	90.00	359.66	11,149.0	4,455.9	-26.7	504,008.39	771,068.72	32° 22' 57.272 N	103° 27' 18.909 W
15,500.0	90.00	359.66	11,149.0	4,555.9	-27.3	504,108.38	771,068.12	32° 22' 58.262 N	103° 27' 18.906 W
15,600.0	90.00	359.66	11,149.0	4,655.9	-27.9	504,208.38	771,067.52	32° 22' 59.251 N	103° 27' 18.904 W
15,700.0	90.00	359.66	11,149.0	4,755.9	-28.5	504,308.38	771,066.92	32° 23' 0.241 N	103° 27' 18.901 W
15,712.7	90.00	359.66	11,149.0	4,768.6	-28.6	504,321.07	771,066.85	32° 23' 0.366 N	103° 27' 18.901 W

15712.7' MD PBHL - PBHL Perro Loco 22 B3OB Fed #1H

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
LP Perro Loco 22 B3C	0.00	0.00	11,149.0	478.1	-2.9	500,030.56	771,092.50	32° 22' 17.910 N	103° 27' 19.012 W
- plan hits target center									
- Point									
PBHL Perro Loco 22 I	0.00	0.00	11,149.0	4,768.6	-28.6	504,321.07	771,066.85	32° 23' 0.366 N	103° 27' 18.901 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
10,671.5	10,671.5	0.0	0.0	10671.5' MD KOP
11,421.5	11,149.0	477.5	-2.9	11421.5' MD LP
15,712.7	11,149.0	4,768.6	-28.6	15712.7' MD PBHL



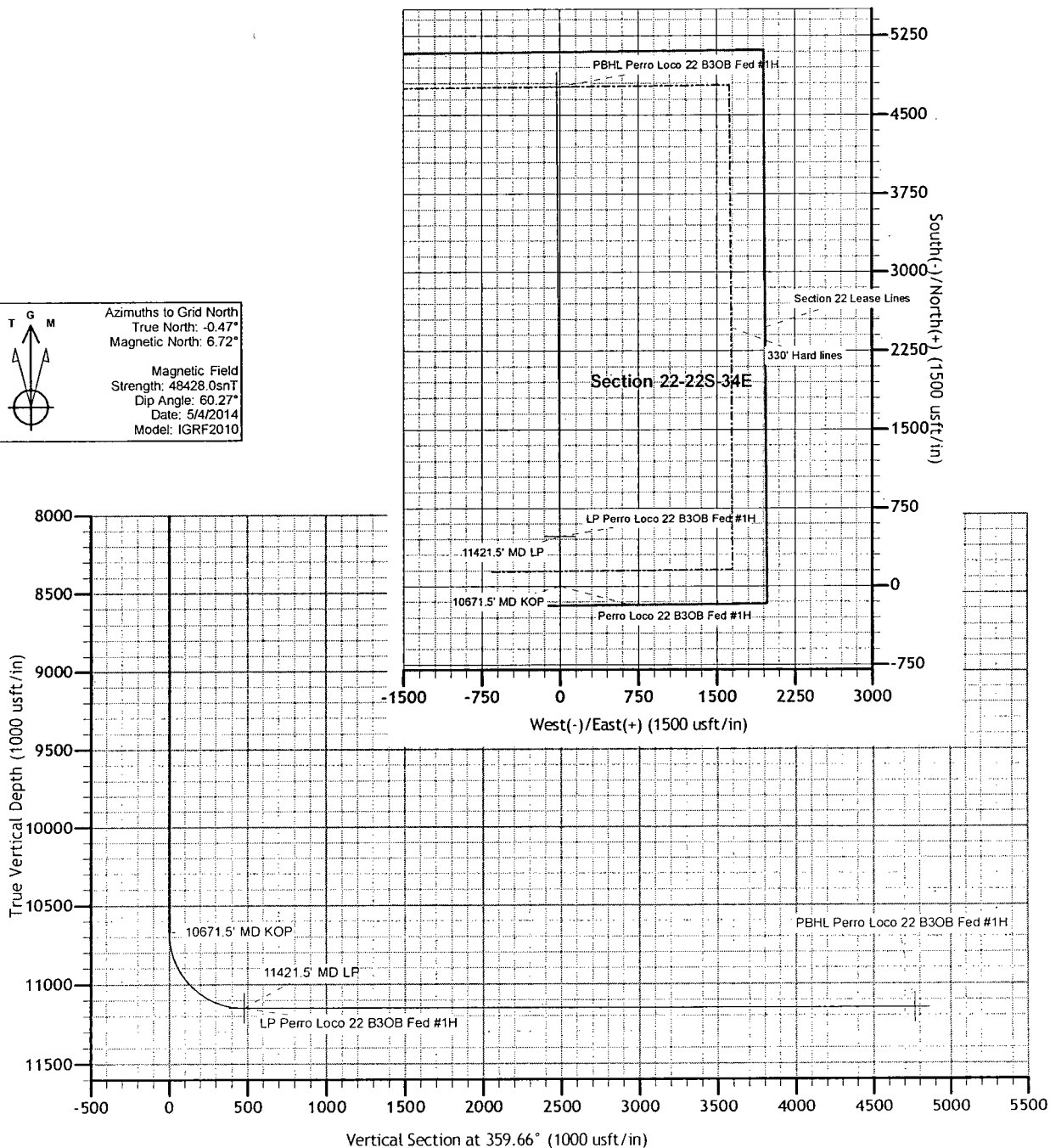
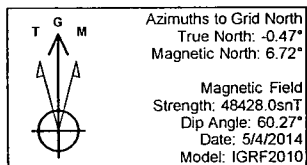
COMPANY: Mewbourne Oil Company
 WELL: Perro Loco 22 B3OB Fed #1H
 COUNTY: Lea County N.M.
 DATUM: NAD 1927 (NADCON CONUS)
 RIG: Patterson 36



GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 6.72°

GEODETTIC ZONE: New Mexico East 3001					
GL 3419 + 20 @ 3439.0usft (Patterson 36)					
GROUND ELEVATION: 3419.0					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	499552.50	771095.40	32° 22' 13.179 N	103° 27' 19.024 W
					Slot

PLAN SECTIONS									
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	10671.5	0.00	0.00	10671.5	0.0	0.0	0.00	0.00	0.0
3	11421.5	90.00	359.66	11149.0	477.5	-2.9	12.00	359.66	477.5
4	15712.7	90.00	359.66	11149.0	4768.6	-28.6	0.00	0.00	4768.7
									PBHL Perro Loco 22 B3OB Fed #1H



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Perro Loco 22 B3OB Fed #1H

185' FSL & 1980' FEL

Sec. 22-T22S-R34E

Lea County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- III. Safety valve must be available on the rig floor at all times with proper connections to install in the drill string. Valve must be full bore with minimum 3000 psi working pressure.
- IV. Equipment through which bit must pass shall be at least as large as internal diameter of the casing.
- V. A kelly cock shall be installed on the kelly at all times.

Blowout preventer closing equipment to include and accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

13 5/8" 2M BOPE & Closed Loop Equipment Schematic

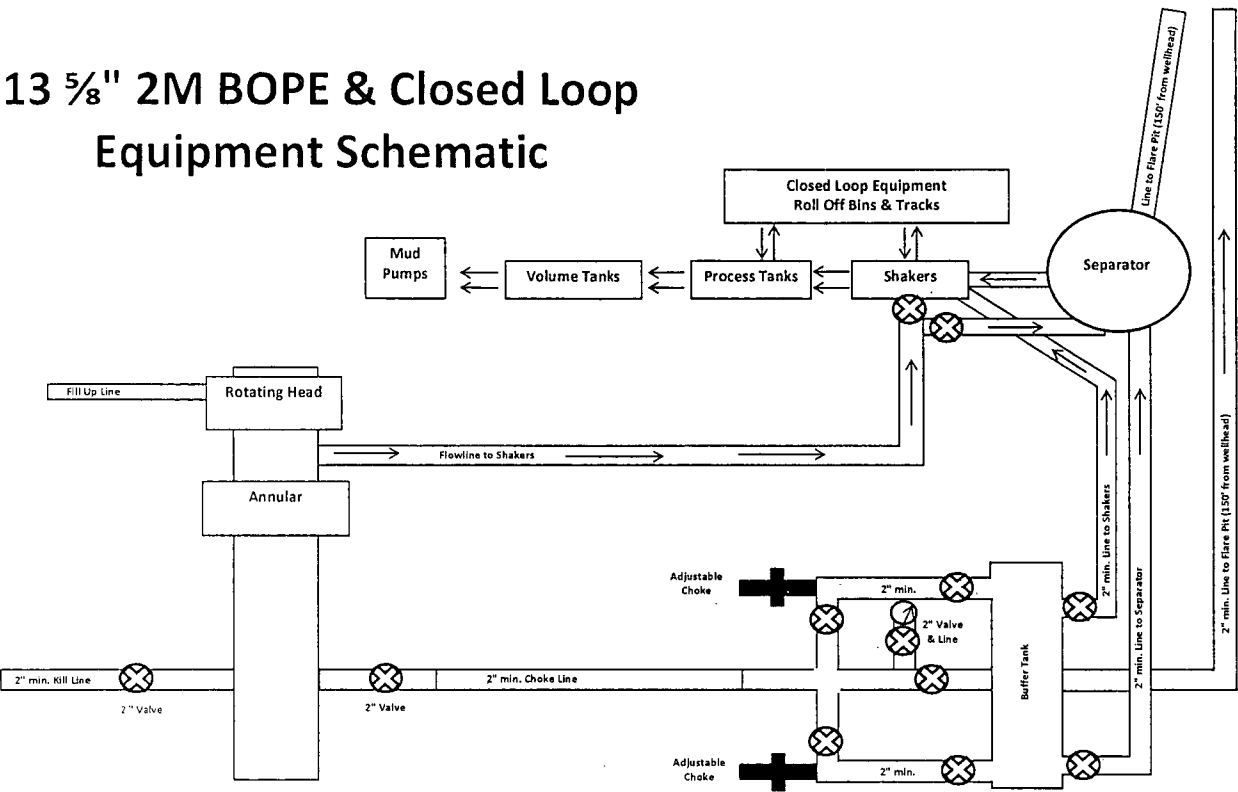
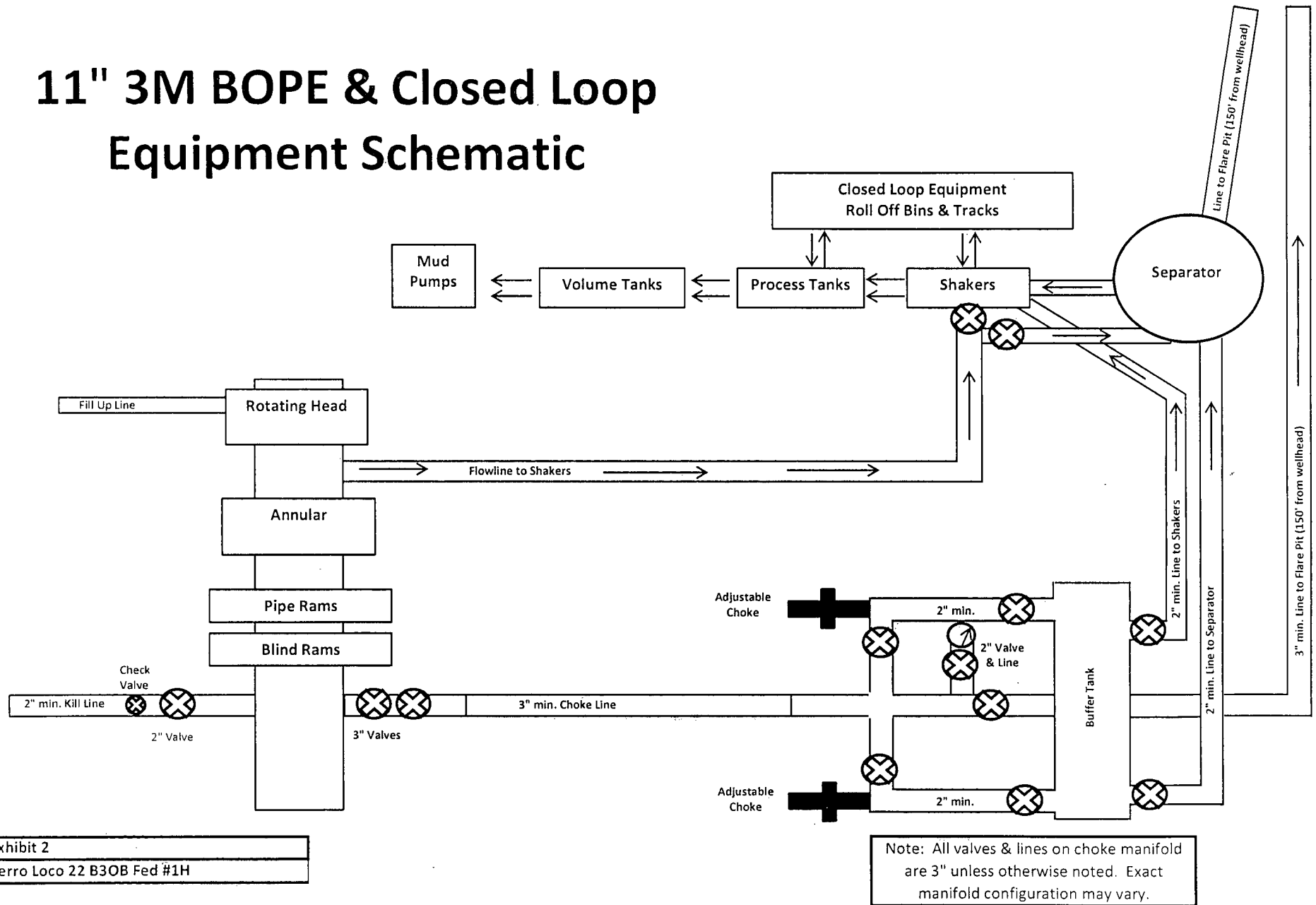


Exhibit 2A
Perro Loco 22 B3OB Fed #1H

11" 3M BOPE & Closed Loop Equipment Schematic



H2S Diagram
 Closed Loop Pad Dimensions 340' x 340'

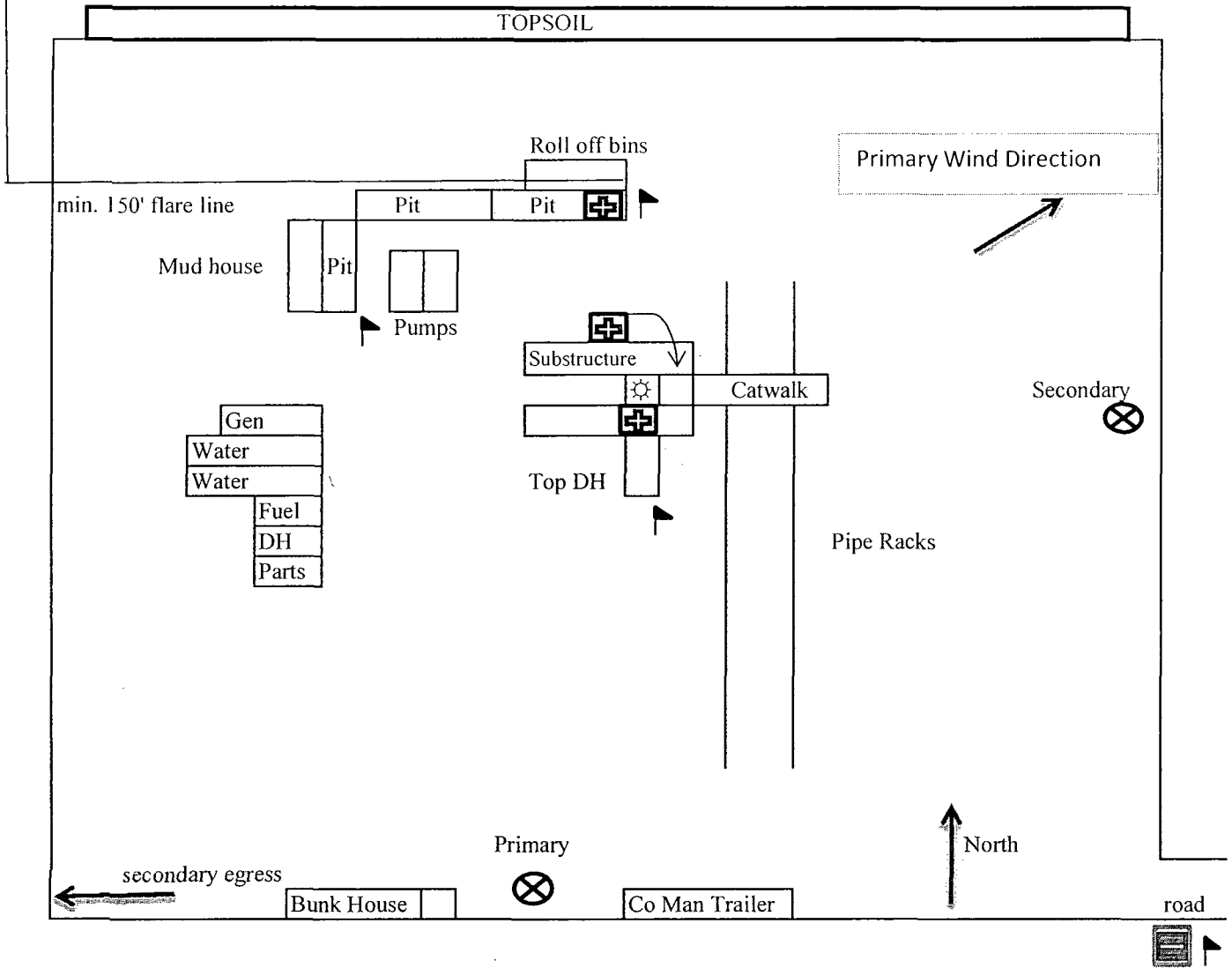


Exhibit 5

Mewbourne Oil Company
 Perro Loco 22 B3OB Fed #1H
 185' FSL & 1980' FEL
 Sec. 22 T22S R34E
 Lea County, NM



= Warning Signs



= Wind Markers



= H₂S Monitors



= Safety Stations

United States Department of the Interior
Bureau of Land Management
Carlsbad Field Office
620 E Greene Street
Carlsbad, New Mexico 88201-1287

Statement Accepting Responsibility for Operations

Operator Name: Mewbourne Oil Company
Street or Box: P.O. Box 5270
City, State: Hobbs, New Mexico
Zip Code: 88241

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted of the leased land or portion thereof, as described below.

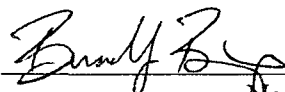
Lease Number: NMNM 111970

Legal Description of Land: Section 22, T-22S, R-34E Lea County, New Mexico.
Location @ 185' FSL & 1980' FEL.

Formation (if applicable): 3rd Bone Spring Sand

Bond Coverage: \$150,000

BLM Bond File: NM1693 nationwide, NMB000919

Authorized Signature:  for Robin Terrell
Name: Robin Terrell
Title: District Manager
Date: 5-5-14