(March 2012)

OCD Artesia

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

UNITED STATES		- 0 10					- , sp.
DEPARTMENT OF THE I BUREAU OF LAND MAN	NTERIOR			5. Lease Serial No. NMLC 028978-A			
APPLICATION FOR PERMIT TO				6. If Indian, Allote	e or Tribe	Name	070
Ia. Type of work:	ER			7 If Unit or CA Agreement, Name and No.			
Ib. Type of Well: Oil Well Gas Well Other	√ Si	ngle Zone Mult	iple Zone `	8. Lease Name and Well No. +3/33 Phoenix "21" B2PA Federal Com # /			
2 Name of Operator Mewbourne Oil Company		474	47	9. API Well No.	43	43f	2
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No 575-393-5	0. (include area code) 905		10. Field and Pool, o Santo Nino Bone			00>
Location of Well (Report location clearly and in accordance with an At surface 200' FNL & 610' FEL Sec 28 T18S R30E	y State requiren	nents.*)		11. Sec., T. R. M. or Sec 28 T18S R30		irvey or A	Area
At proposed prod. zone 330' FNL & 660' FEL Sec 21 T18S 14. Distance in miles and direction from nearest town or post office* 31 miles southeast of Artesia, NM	R30E	1		12. County or Parish Eddy	<u> </u>	13. Sta	ite
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of a 640	acres in lease	17. Spacii 160	ng Unit dedicated to this well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 320'-McClay Lease 028978 #2		d Depth - MD - TUD	1	//BIA Bond No. on file 93 nationwide, NMB-000919			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3451'-GL	22. Approxi 3 - 14	mate date work will st 14	art*	23. Estimated duration 60 Days			
,	24. Atta	chments					
The following, completed in accordance with the requirements of Onshor	e Oil and Gas	Order No.1, must be	attached to th	is form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System) 	Lands, the	Bond to cover Item 20 above). Operator certification.		ns unless covered by a	n existing	bond on	file (see
SUPO must be filed with the appropriate Forest Service Office).		6. Such other site BLM.	specific inf	ormation and/or plans	as may be	required l	by the
25. Signature Bradley Bishoo	I	(Printed/Typed) BRADLEY	RISH	o P	Date /-/4	1-14	
Title		5,-,	04		1		
Approved by /SFUEANETTE MARTINEZ	Name	(Printed/Typed)		-	DUN	1.2	2014
FIELD MANAGER	Office	c	ARLSBAD	FIELD OFFICE	1		
Application approval does not warrant or certify that the applicant holds	s legal or equi	table title to those rig.	hts in the sub	oject lease which would	entitle the	applican	tto

APPROVAL FOR TWO YEARS Conditions of approval, if any, are attached.

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)

NM OIL CONSERVATION

*(Instructions on page 2)

ARTESIA DISTRICT

Canitan Controlled Water Basin

JUN 1 6 2014

RECEIVED

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

DISTRICT I 1625 N. French Dr., Hobbs, NM 88240 DISTRICT II 1801 W. Grand Avenue, Artesia, NM 88210

1000 Rio Brazos Rd., Aztec, NM 87410

1220 S. St. Francis Dr., Santa Fe. NM 87505

DISTRICT III

DISTRICT IV

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102 Revised July 16, 2010

Submit one copy to appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

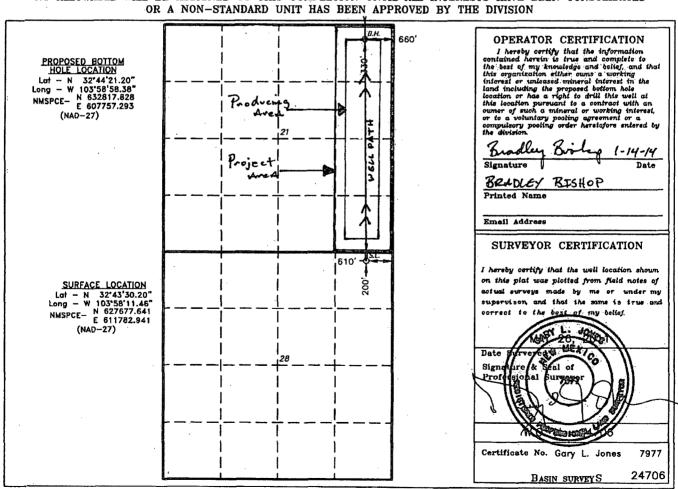
☐ AMENDED REPORT

30-015-42438	5 4 6 0 0	SANTO NINO BONE SP	ZING				
3 Property Code	Property Name PHOENIX "21" B2PA Federal						
ogrid nb. 14744	· · · · · · · · · · · · · · · · · · ·	NE OIL COMPANY	Elevation 3452'				

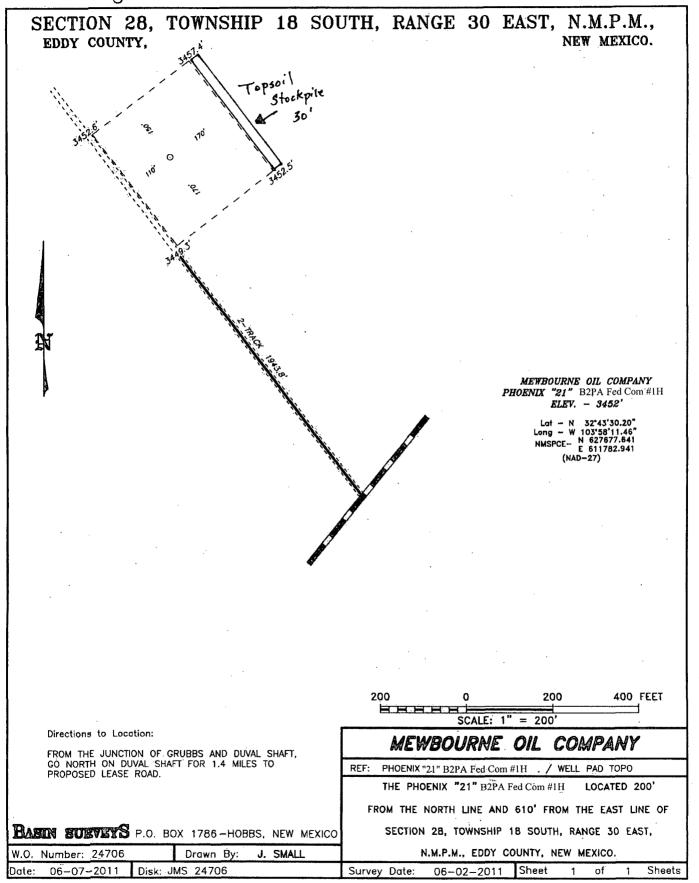
Surface Location UL or lot No. Section Township Lot ldn Feet from the North/South line Feet from the East/West line Range Α 28 18 S 30 E 200 NORTH 610 **EAST EDDY** Bottom Hole Location If Different From Surface

UL or lot No. Section Township Lot Idn Feet from the North/South line East/West line Range Feet from the County 30 E 330 **NORTH EDDY** 18 S 660 **EAST** Consolidation Code Dedicated Acres Joint or Infill Order No. 160

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED



".3′



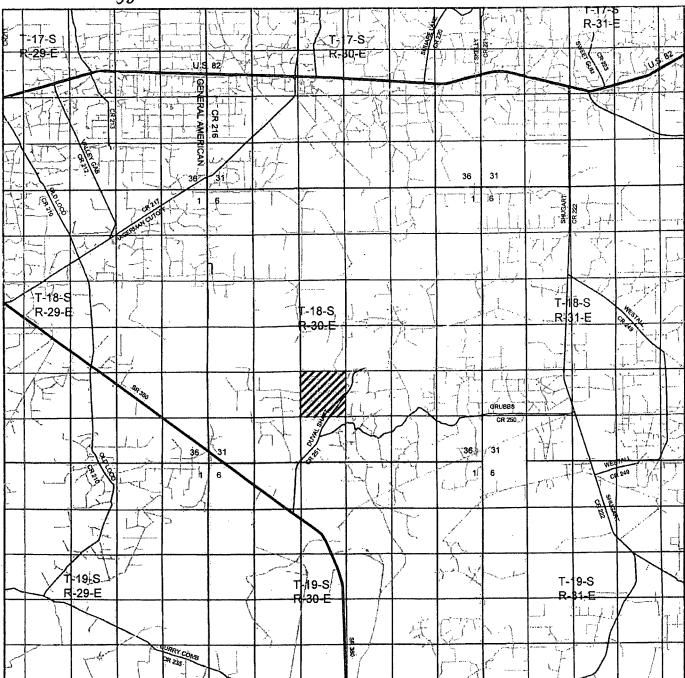
PHOENIX "21" B2PA Federal Com #1H Located 200' FNL and 610' FEL Section 28, Township 18 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. Number:	JMS 24706
Survey Date:	06-02-2011
Scale: 1" =	2000'
Date: 06-07	

MEWBOURNE OIL COMPANY



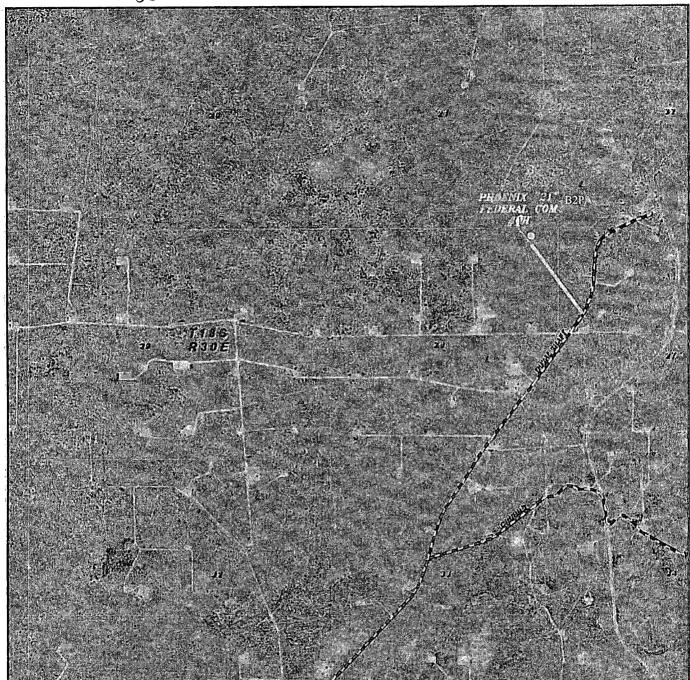
PHOENIX "21" B2PA Federal Com #1H Located 200' FNL and 610' FEL Section 28, Township 18 South, Range 30 East, N.M.P.M., Eddy County, New Mexico.



P.O. Box 1785 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

W.O. N		JMS	24706	
Survey		06-0	02-2011	
Scale:	1" = 2	Miles		
Date:	06-07-	2011		

MEWBOURNE OIL COMPANY



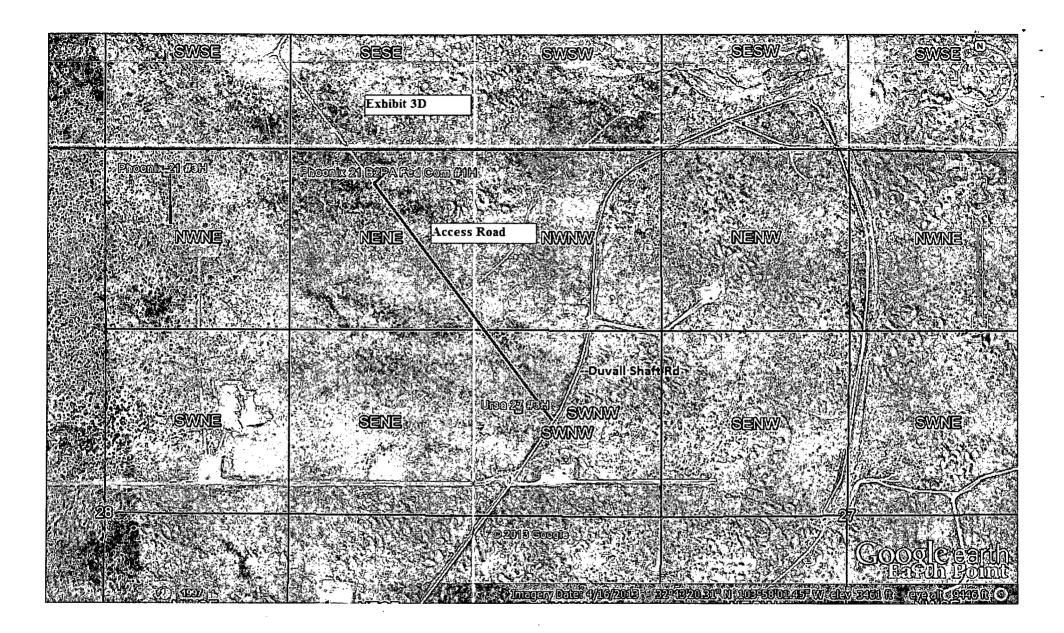
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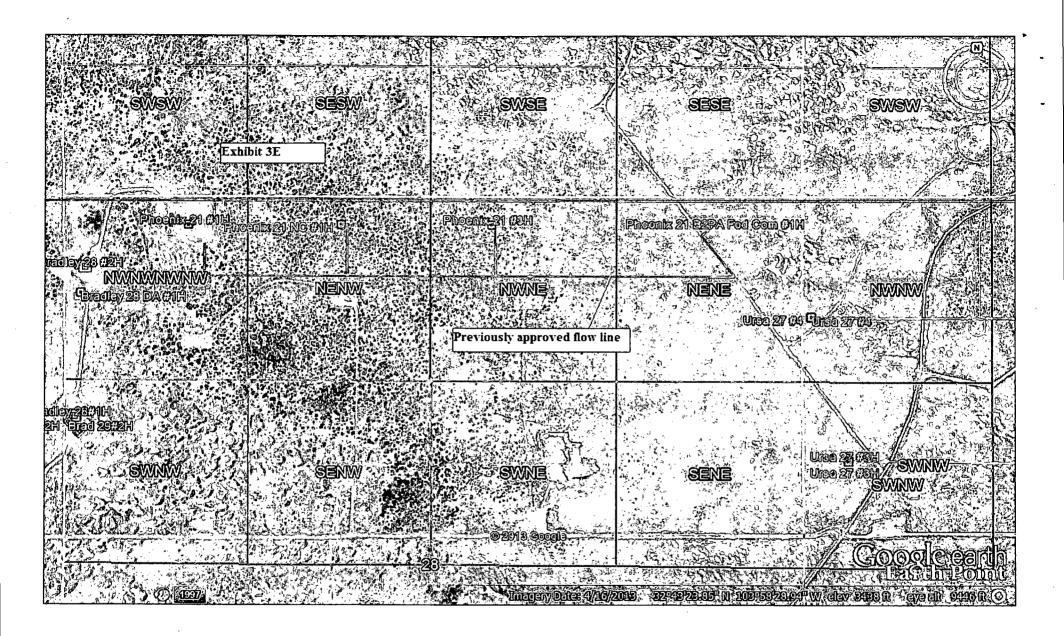


P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com W.O. Number: JMS 24706

Scale: 1" = 2000'

YELLOW TINT — USA LAND BLUE TINT — STATE LAND NATURAL COLOR — FEE LAND MEWBOURNE OIL COMPANY





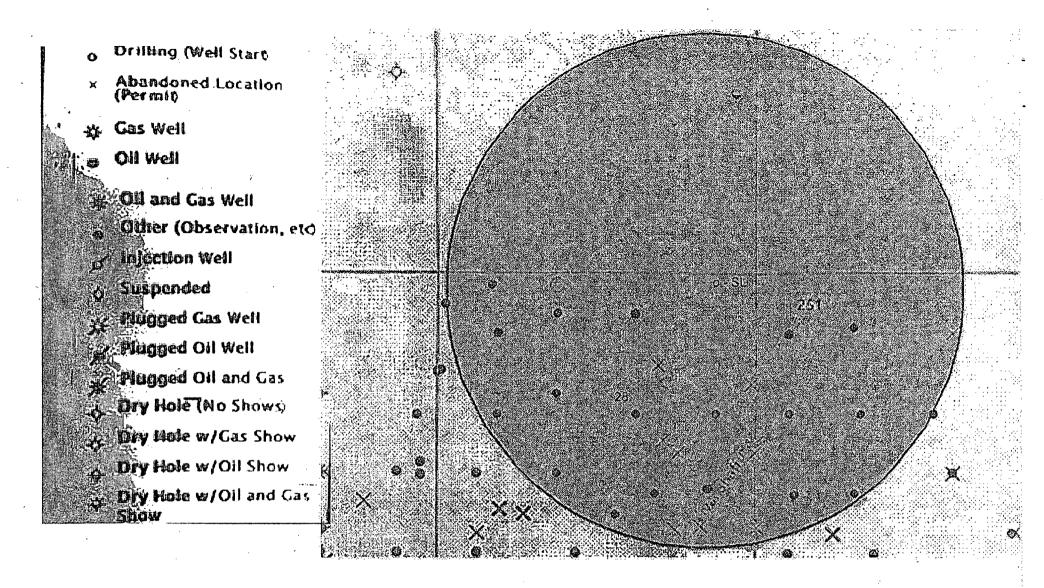


Exhibit "4" - SL - Phoenix 21 B2PA Fed Com #1H - 200' FNL & 610' FEL, Sec. 28 T18S R30E, Eddy Co. NM

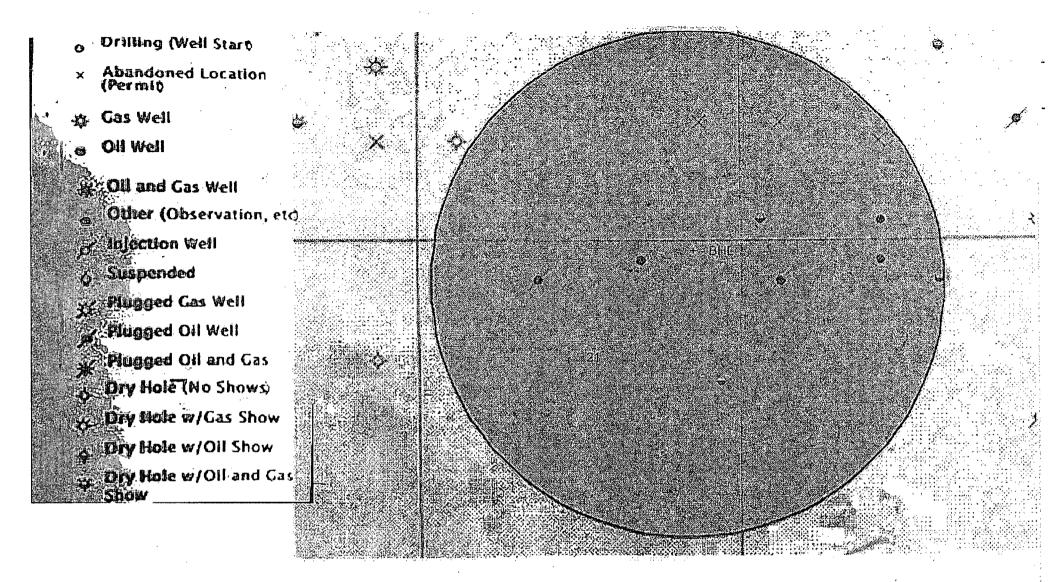


Exhibit "4A" - BHL - Phoenix 21 B2PA Fed Com #1H - 330' FNL & 660' FEL, Sec. 21 T18S R30E, Eddy Co. NM

<u>Drilling Program</u> Mewbourne Oil Company

Phoenix "21" B2PA Federal Com #1H 200' FNL & 610' FEL (SHL) Sec 28-T18S-R30E Eddy County, New Mexico

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

Rustler	420'
Top Salt	535'
Base Salt/Tansill	1385'
*Yates	1550'
Seven Rivers	1930'
*Queen	2715'
Capitan	Not Present
Grayburg	3165'
San Andres	3490'
*Delaware	4310'
*Bone Springs	5215'
2 nd Sand	7950'
Wolfcamp	WILL NOT PENETRATÉ

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

Water Fresh water is anticipated at 250' and will be protected by setting surface

casing at 445' 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 % casing. A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 5/8 7 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. BOP's 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 %" annular BOPE to 1250#. Will test 9 % & 7" BOPE to 3000# and the Annular to 1500#. All BOPE tests will be done with 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. MOC proposes to drill a vertical wellbore to 7820' & kick off to horizontal @ 8297' TVD. The well will be drilled to 13239' MD (8272' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casi	ng Program:				
Hole Size	Casing	Wt/Ft.	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
17 ½ "	13 3/8" (new)	48#	H40	0'-445'	ST&C
12 ¼ "	9 5/8" (new)	36#	J55	0'-1600' MD LT&C	
8 ¾"	7" (new)	26#	P110	0'-7820' MD	· LT&C
8 ¾"	7" (new)	26#	P110	7820'-8566' MD	BT&C
6 1/8"	4 ½" (new)	13.5#	P110	8310'- TD	LT&C

Drilling Program Mewbourne Oil Company Phoenix 21 B2PA Fed Com #1H Page 2

Minimum casing design factors: Collapse 1.125, Burst 1.0, Tensile strength 1.8. *Subject to availability of casing.

B. Cementing Program:

See COA

Surface Casing: 460 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.

Intermediate Casing: 200 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/25% excess.

iii Production Casing: 540 sacks Class H light cement (35:65:4) with fluid loss, LCM, & salt additives. Yield at 2.12 cuft/sk. Mix water @ 11.32 gal/sk. 400 sacks Class H cement containing fluid loss additives. Yield at 1.18 cuft/sk. Mix water @ 5.22 gal/sk. Cmt calculated to tieback 500' into intermediate casing @ 1100' w/25% excess.

iv. Production Liner: This will be a Packer/Port completion from TD to 200' inside 7" casing with packer type liner hanger.
 *Referring to above blends of lite 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:

<u>Interval</u>	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0'-445'	FW spud mud	8.6-9.0	32-34	NA
445'-1600'	Brine water	10.0-10.2	28-30	NA
1600' - 7820' (KOP)	FW .	8.5-8.7	28-30	NA
7820' - 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, CNL & Gyro from KOP -100' (7720') to surface. GR from 7720' to TD.

8. Downhole Conditions

Zones of abnormal pressure:

None anticipated

Zones of lost circulation:

Anticipated in surface and intermediate holes

Maximum bottom hole temperature:

135 degree F

Maximum bottom hole pressure:

8.3 lbs/gal gradient or less (.43368 x 8297'=3598 psi)

*MOC does not anticipate H2S, however H2S contingency plan is attached.

9. Anticipated Starting Date:

^{*}Mewbourne Oil Company reserves the right to change cement designs as hole conditions may warrant.

Mewbourne Oil Company intends to drill this well as soon as possible after receiving approval with approximately 40 days involved in drilling operations and an additional 20 days involved in completion operations on the project.



Mewbourne Oil Company.

Eddy County, New Mexico Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Original Hole

Plan: Plan #1

Standard Planning Report

31 December, 2013





Planning Report



Database: EDM 5000.1 Single User Db Mewbourne Oil Company Company: Project: Eddy County, New Mexico Site: Well:

Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Wellbore: Original Hole Design: Plan.#1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472:0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

Minimum Curvature

Project Eddy County, New Mexico

Map System:

US State Plane 1927 (Exact solution)

Geo Datum: Map Zone:

NAD 1927 (NADCON CONUS)

New Mexico East 3001

System Datum:

Mean Sea Level

Site Section 21/28-10S-30E Rhoenix 21 B2PA

Site Position:

Northing:

627,677.65 usft

Latitude:

32° 43' 30.198 N

From:

Мар

Easting:

611,782.94 usft

Longitude:

Position Uncertainty:

Slot Radius: 0.0 usft

13-3/16 "

Grid Convergence:

103° 58' 11.455 W

0.20°

Phoenix 21 B2PA Federal Com #1H

Well Position

+N/-S

0.0 usft

Northing:

627.677.65 usft

Latitude:

32° 43' 30.198 N

+E/-W

0.0 usft

IGRF2010

Easting:

611,782.94 usft

7.50

Longitude:

103° 58' 11.455 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

60.52

3,452.0 usft

Wellbore SOriginal Hole

Magnetics Model Name

Sample Date

12/31/2013

Declination

Dip Angle

Field Strength

48,619

Design ...

Audit Notes:

Version:

Phase:

PROTOTYPE

Tie On Depth:

0.0

+E/-W Depth From (TVD) Direction (usft) (usft) (usft) 359.23 0.0 0.0 0.0

Plan Sections	774									
Measured			Vertical			Dogleg	Build	Turn		C-1
Depth Inc	clination	Azimuth "	Depth	- +N/-S	+E/-W	Rate °/100usft) (Rate	Rate %100usft) ≭	/TFO	T 1
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7,819.5	0.00	0.00	7,819.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,566.4	89.63	358.73	8,297.0	474.3	-10.5	12.00	12.00	0.00	358.73	
8.662.1	90.31	359.28	8,297.0	570.0	-12.2	0.92	0.71	0.58	39 34	LP Phoenix 21 B2P
0,002.1	30.31	339.20	0,297.0	370.0	-12.2	0.52	0.7 1	0.00	00.01	CI I HOUTHIX ET DE.



Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Company Eddy County, New Mexico Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H Original Hole

Plan #1

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

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

Planned Survey				ET SET ELECTRON AT A TABLE					
2 Sec. 17				1				1.0	one Tale
Measured Depth Inc		AND DESCRIPTIONS OF THE PERSON	Vertical Depth	+N/-S		Vertical Section	Dogleg Rate	Build	Turn Rate
(usft)	clination . (°)	Azimutn (°)	(usft)	+N/-S - (usft)	(usft)				"/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
300.0 400.0	0.00 0.00	0.00 0.00	300.0 400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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
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1,700.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
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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 1,900.0	0.00 0.00	0.00 0.00	1,800.0 1,900.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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
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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 2,800.0	0.00	0.00 0.00	2,700.0 2,800.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
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3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
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3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
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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 4,900.0	0.00 0.00	0.00 0.00	4,800.0 4,900.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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
5,000.0	0.00	0.00	5,000.0	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
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00



Planning Report



Database: Company: Project: Site: Well:

Wellbore:

Design:

EDM 5000.1 Single User Db Mewbourne Oil Company . Eddy County, New Mexico Section 21/28-10S-30E Phoenix 21 B2PA

Phoenix 21 B2PA Federal Com #1H

Original Hole Plan #1

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

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110)

Planned Survey			************			Marian de la companya de la company Na la companya de la		PLICE COLOR COLOR	
riameu Suivey					9				
Measured			Vertical			Vertical	Dogleg	Build	Turn
	clination 🏝	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft).	(°/100usft)	(°/100usft)
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 5,900.0	0.00 0.00	0.00 0.00	5,800.0 5,900.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
			6.000.0						
6,000.0 6,100.0	0.00 0.00	0.00 0.00	6,100.0	0.0 0.0	0.0 0.0	0.0 0.0 .	0.00 0.00	0.00 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 6,700.0	0.00 0.00	0.00 0.00	6,600.0 6,700.0	0.0 0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,700.0 6,800.0	0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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 7,400.0	0.00 0.00	0.00 0.00	7,300.0 7.400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
			,						
7,500.0 7,600.0	0.00 0.00	0.00 0.00	7,500.0 7,600.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 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
7,819.5	0.00	0.00	7,819.5	0.0	0.0	0.0	0.00	0.00	0.00
7819.5' MD	470								
7,825.0	0.66	358.73	7,825.0	0.0	0.0	0.0	12.00	12.00	0.00
7,850.0 7,875.0	3.66 6.66	358.73 358.73	7,850.0 7,874.9	1.0 3.2	0.0 -0.1	1.0 3.2	12.00 12.00	12.00 12.00	0.00 0.00
7,900.0	9.66	358.73	7,899.6	6.8	-0.2	6.8	12.00	12.00	0.00
7,925.0	12.66	358.73	7,924.1	11.6	-0.3	11.6	12.00	12.00	0.00
7,950.0	15.66	358.73	7,948.4	17.7	-0.4	17.7	12.00	12.00	0.00
7,975.0	18.66	358.73	7,972.3	25.1	-0.6	25.1	12.00	12.00	0.00
8,000.0 8,025.0	21.66 24.66	358.73 358.73	7,995.7 8.018.7	33.7 43.5	-0.7 -1.0	33.7 43.5	12.00 12.00	12.00 12.00	0.00 0.00
8,050.0	27.66	358.73	8,041.2	54.6	-1.2	54.6	12.00	12.00	0.00
8,075.0	30.66	358.73	8,063.0	66.7	-1.5	66.7	12.00	12.00	0.00
8,100.0	33.66	358.73	8,084.1	80.0	-1.8	80.0	12.00	12.00	0.00
8,125.0	36.66	358.73	8,104.6	94.4	-2.1	94.4	12.00	12.00	0.00
8,150.0 8,175.0	39.66 42.66	358.73 358.73	8,124.2 8,143.1	109.9 126.3	-2.4 -2.8	109.9 126.3	12.00 12.00	12.00 12.00	0.00 0.00
8,200.0	45.66								
8,200.0 8,225.0	45.66 48.66	358.73 358.73	8,161.0 8,178.0	143.7 162.0	-3.2 -3.6	143.8 162.1	12.00 12.00	12.00 12.00	0.00 0.00
8,250.0	51.66	358.73	8,194.0	181.2	-4.0	181.3	12.00	12.00	0.00
8,275.0	54.66	358.73	8,209.0	201.2	-4.5	201.3	12.00	12.00	0.00
8,300.0	57.66	358.73	8,222.9	222.0	-4.9	222.0	12.00	12.00	0.00
8,325.0	60.66	358.73	8,235.7	243.5	-5.4	243.5	12.00	12.00	0.00
8,350.0 8,375.0	63.66 66.66	358.73 358.73	8,247.4 8,257.9	265.5 288.2	-5.9 6.4	265.6	12.00	12.00	0.00
8,400.0	69.66	358.73 358.73	8,257.9 8,267.2	288.2 311.4	-6.4 -6.9	288.3 311.5	12.00 12.00	12.00 12.00	0.00 0.00
8,425.0	72.66	358.73	8,275.3	335.1	-7. 4	335.1	12.00	12.00	0.00
8,450.0	75.66	358.73	8,282.1	359.1	-8.0	359.2	12.00	12.00	0.00
								:00	



Planning Report



Database: Company: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Company Eddy County, New Mexico Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Original Hole Plan #1. Local Co-ordinate Reference:

TVD Reference:

MD Reference:

North Reference:

Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

Planned Survey						MINOR TO THE PROPERTY OF			
i initieu Suivey						and the			
Measured			Vertical :			Vertical	Dogleg	Build	Turn
Depth II	nclination	Azimuth	Depth	+N/S			Rate	Rate	Rate
(usft)	(°)	(°)	(usft)	(üsft)	(usft)	(usft)	(°/100usft) /= (°	(100usft)	°/100usft)
8,475.0	78.66	358.73	8,287.6	. 383.5	-8,5	383.6	12.00	12.00	0.00
8,500.0	81.66	358.73	8,291.9	408.1	-9.1	408.2	12.00	12.00	0.00
8,525.0	84.66	358.73	8,294.9	432.9	-9.6	433.0	12.00	12.00	0.00
8,550.0	87.66	358.73	8,296.6	457.9	-10.2	458.0	12.00	12.00	0.00
8,566.4	89.63	358.73	8,297.0	474.3	-10.5	474.4	12.00	12.00	0.00
8,600.0 8,662.1	89.87 90.31	358.92 359.28	8,297.1 8,297.0	507.8 569.9	-11.2 -12.2	507.9 570.0	0.92 0.92	0.71 0.71	0.58 0.58
8662:1: MD)L			0,297.U Design Canada	೨೦೨.೨ ವರ್ಷಕ್ಕೆ ಒಂದ	-12.2 -1443-1556-156	370.0 	U.92	U.71 Discussion	0.56
8.700.0	90.31	359.28	8,296.8	607.8	-12.7	607.9	0.00	0.00	0.00
8,800.0	90.31	359.28	8,296.2	707.8	-13.9	707.9	0.00	0.00	0.00
8,900.0	90.31	359.28	8,295.7	807.8	-15.2	807.9	0.00	0.00	0.00
9,000.0	90.31	359.28	8,295.2	907.8	-16.4	907.9	0.00	0.00	0.00
9,100.0	90.31	359.28	8,294.6	1,007.8	-17.7	1,007.9	0.00	0.00	0.00
9,200.0	90.31	359.28	8,294.1	1,107.8	-18.9	1,107.9	0.00	0.00	0.00
9,300.0	90.31	359.28	8,293.5	1,207.8	-20.2	1,207.9	0.00	0.00	0.00
9,400.0	90.31	359.28	8,293.0	1,307.8	-21.4	1,307.9	0.00	0.00	0.00
9,500.0	90.31	359.28	8,292.4	1,407.8	-22.7	1,407.9	0.00	0.00	0.00
9,600.0 9,700.0	90.31 90.31	359.28 359.28	8,291.9 8,291.3	1,507.7 1,607.7	-23.9 -25.1	1,507.9 1,607.9	0.00 0.00	0.00 0.00	0.00 0.00
9,800.0	90.31	359.28	8,290.8	1,707.7	-26.4	1,707.9	0.00	0.00	0.00
9,900.0	90.31	359.28	8,290.2	1,807.7	-27.6	1,807.9	0.00	0.00	0.00
10,000.0	90.31	359.28	8,289.7	1,907.7	-28.9	1,907.9	0.00	0.00	0.00
10,100.0	90.31	359.28	8,289.1	2,007.7	-30.1	2,007.9	0.00	0.00	0.00
10,200.0	90.31	359.28	8,288.6	2,107.7	-31.4	2,107.9	0.00	0.00	0.00
10,300.0	90.31	359.28	8,288.1	2,207.7	-32.6	2,207.9	0.00	0.00	0.00
10,400.0	90.31	359.28	8,287.5	2,307.7	-33.9	2,307.9	0.00	0.00	0.00
10,500.0 10,600.0	90.31 90.31	359.28 359.28	8,287.0 8,286.4	2,407.7 2,507.7	-35.1	2,407.9	0.00	0.00	0.00
10,700.0	90.31	359.28 359.28	8,285.9	2,507.7 2,607.6	-36.4 -37.6	2,507.9 2,607.9	0.00 0.00	0.00 0.00	0.00 0.00
10,800.0	90.31	359.28	8,285.3	2,707.6	-38.9	2,707.9	0.00	0.00	0.00
10,900.0	90.31	359.28	8,284.8	2,807.6	-40.1	2,807.9	0.00	0.00	0.00
11,000.0	90.31	359.28	8,284.2	2,907.6	-41.4	2,907.9	0.00	0.00	0.00
11,100.0	90.31	359.28	8,283.7	3,007.6	-42.6	3,007.9	0.00	0.00	0.00
11,200.0	90.31	359.28	8,283.1	3,107.6	-43.9	3,107.9	0.00.	0.00	0.00
11,300.0	90.31	359.28	8,282.6	3,207.6	-45.1	3,207.9	0.00	0.00	0.00
11,400.0	90.31	359.28	8,282.0	3,307.6	-46.4	3,307.9	0.00	0.00	0.00
11,500.0 11,600.0	90.31 90.31	359.28 359.28	8,281.5	3,407.6	-47.6	3,407.9	0.00	0.00	0.00
11,700.0	90.31	359.28	8,281.0 8,280.4	3,507.6 3,607.6	-48.9 -50.1	3,507.9 3,607.9	0.00 0.00	0.00 0.00	0.00 0.00
11,800.0	90.31	359.28	8,279.9	3,707.5	-51.4	3,707.9	0.00	0.00	0.00
11,900.0	90.31	359.28	8,279.3	3,807.5	-52.6	3,807.9	0.00	0.00	0.00
12,000.0	90.31	359.28	8,278.8	3,907.5	-53.9	3,907.9	0.00	0.00	0.00
12,100.0	90.31	359.28	8,278.2	4,007.5	-55.1	4,007.9	0.00	0.00	0.00
12,200.0	90.31	359.28	8,277.7	4,107.5	-56.4	4,107.9	0.00	0.00	0.00
12,300.0	90.31	359.28	8,277.1	4,207.5	-57.6	4,207.9	0.00	0.00	0.00
12,400.0	90.31	359.28	8,276.6	4,307.5	-58.8	4,307.9	0.00	0.00	0.00
12,500.0	90.31	359.28	8,276.0	4,407.5	-60.1	4,407.9	0.00	0.00	0.00
12,600.0 12,700.0	90.31 90.31	359.28 359.28	8,275.5 8,274.9	4,507.5 4,607.5	-61.3 -62.6	4,507.9 4.607.9	0.00 0.00	0.00 0.00	0.00 0.00
12,800.0	90.31	359.28	8,274.4	4,007.3	-62.8	4,707.9	0.00	0.00	0.00
12,900.0	90.31	359.28	8,273.8	4.807.4	-65.1	4.807.9	0.00	0.00	0.00
13,000.0	90.31	359.28	8,273.3	4,907.4	-66.3	4,907.9	0.00	0.00	0.00
13,100.0	90.31	359.28	8,272.8	5,007.4	-67.6	5,007.9	0.00	0.00	. 0.00
13,200.0	90.31	359.28	8,272.2	5,107.4	-68.8	5,107.9	0.00	0.00	0.00



Planning Report



Database: Company: Project: Site:

Design:

EDM 5000.1 Single User Db Mewbourne Oil Company. Eddy County, New Mexico

Section 21/28-10S-30E Phoenix 21 B2PA

Well: Phoenix 21 B2PA Federal Com #1H Wellbore:

Original Hole Plan #1

13238.5 MD PBHL

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20.@ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110)

Grid

Minimum Curvature

Planned Survey					4.4835.00	(I Tarosakala			
Measured			Vertical			Vertical	Dogleg	Build :	Turn
Depth Sinc	lination	Azimuth 💯	Depth	+N/-S	+E/W	Section	Rate	Rate	√Rate -
(usft)	(°)	7 (°)	(usft)	(usft)	(usft)	(usft) (?/100usft) (°/	100usft) 🕒 (/100usft)
		201903200							
13,238.5	90.31	359.28	8,272.0	5,145.9	-69.3	5,146.4	0.00	0.00	0.00

Wellbore Targets Target Name - hit/miss target Dip Angle Dip Dir. TVD +E/-W +N/-S - Shape (usft) (usft) (usft) ___ (°) ____ (°) (usft) (usft) PBHL Phoenix 21 B2F 0.00 0.00 8,272.0 5,145,9 -69.3 632,823.59 611,713.63 32° 44' 21.121 N 103° 58' 12.060 W - plan hits target center - Point LP Phoenix 21 B2PA 0.00 570.0 -12.2 628,247.62 32° 43' 35.838 N 103° 58' 11.575 W 0.00 8,297.0 611,770.75 - plan hits target center



Mewbourne Oil Company.

Eddy County, New Mexico Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Original Hole

Plan: Plan #1

Standard Planning Report - Geographic

31 December, 2013





Planning Report - Geographic



Database: EDM 5000.1. Single User Db Mewbourne Oil Company Company: Project: Eddy County, New Mexico

Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Site: Well: Wellbore: Original Hole Plan#1 Design:

Local Co-ordinate Reference: TVD Reference:

MD)Reference: North Reference:

Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110)

Grid

Minimum Curvature

-	O AT	12.35	1000	87 835 F.F.	4	_	 10.0	 	

Map System:

Site:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Section 21/28-10S-30E-Phoenix 21-B2PA

Site Position:

From:

Map

Northing: Easting:

627,677.65 usft 611,782.94 usft Latitude:

32° 43' 30.198 N Lonaitude:

Position Uncertainty:

0.0 usft

Slot Radius:

13-3/16 "

Grid Convergence:

103° 58' 11.455 W

0.20°

Phoenix 21 B2PA Federal Com #1H

Well Position

+N/-S +E/-W

0.0 usft 0.0 usft

Northing: Easting:

627,677.65 usft 611,782.94 usft Latitude: Longitude:

32° 43' 30.198 N 103° 58' 11.455 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

3,452.0 usft

©iginal|Hole €

Magnetics Mod	ieliName (S	ample Date (I	Declination Dip	Angle Fi	eld Strength (nT)
	IGRE2010	12/31/2013	7 50	60.52	48 619

Design III Plan #132

Audit Notes:

Version:

Phase:

.PROTOTYPE

Tie On Depth:

0.0

Vertical Section: Depth From (usft	n((TVD) +N/-S) (usft)	+E/-W (usft)	Direction (°)	To the second se
0.0	0.0	0.0	359.23	•

Plan Sections				i i				i esigni da	retvette.	
Measured			Vertical			Dogleg	Build	Turn		a de
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Rate	Rate	Rate	TFO	
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)	(*)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,819.5	0.00	0.00	7,819.5	0.0	0.0	0.00	0.00	0.00	0.00	
8,566.4	89.63	358.73	8,297.0	474.3	-10.5	12.00	12.00	0.00	358.73	
8,662.1	90.31	359.28	8,297.0	570.0	-12.2	0.92	0.71	0.58	39.34	LP Phoenix 21 B2P
13,238.5	90.31	359.28	8,272.0	5,145.9	-69.3	0.00	0.00	0.00	0.00	PBHL Phoenix 21 E



Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Company . Eddy County, New Mexico

Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Original Hole

Plan #1

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

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

Planned Surve	N.					and december 200 and the			
Section 1									
Measured			Vertical	A Park I	and a series	Map	Map		
Part of the property of the part of the pa	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	\$44 × 000 P (00000 4 20000 9 20 2 20 4 20 5 10 20 10 2	14 (2)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
0.0			0.0			627,677.65	611,782.94		103° 58' 11.455 W
100.0	0.00	0.00 0.00	0.0 100.0	0.0 0.0	0.0 0.0	627,677.65	611,782.94	32° 43' 30.198 N 32° 43' 30.198 N	103° 58' 11.455 W
200.0	0.00	0.00	200.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
300.0	0.00	0.00	300.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
400.0	0.00	0.00	400.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
500.0	0.00	0.00	500.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
600.0	0.00	0.00	600.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
700.0	0,00	0.00	700.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
800.0	0.00	0.00	800.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
900.0	0.00	0.00	900.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,000.0	0.00	0.00	1,000.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,100.0	0.00	0.00	1,100.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,200.0	0.00	0.00	1,200.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,300.0	0.00	0.00	1,300.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,400.0	0.00	0.00	1,400.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
1,500.0	0.00	0.00	1,500.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,600.0	0.00	0.00	1,600.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
1,700.0 1,800.0	0.00	0.00	1,700.0 1,800.0	0.0 0.0	0.0 0.0	627,677.65 627,677.65	611,782.94 611,782.94	32° 43' 30.198 N 32° 43' 30.198 N	103° 58' 11.455 W 103° 58' 11.455 W
1,900.0	0.00	0.00 0.00	1,900.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58′ 11.455 W
2,000.0	0.00	0.00	2,000.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
2,100.0	0.00	0.00	2,100.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58′ 11.455 W
2,200.0	0.00	0.00	2,200.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
2,300.0	0.00	0.00	2,300.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
2,400.0	0.00	0.00	2,400.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
2,500.0	0.00	0.00	2,500.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
2,600.0	0.00	0.00	2,600.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
2,700.0	0.00	0.00	2,700.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
2,800.0	0.00	0.00	2,800.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
2,900.0	0.00	0.00	2,900.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
3,000.0	0.00	0.00	3,000.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
3,100.0	0.00	0.00	3,100.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
3,200.0	0.00 0.00	0.00 0.00	3,200.0	0.0	0.0 0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
3,400.0	0.00	0.00	3,300.0 3,400.0	0.0 0.0	0.0	627,677.65 627,677.65	611,782.94 611,782.94	32° 43' 30.198 N 32° 43' 30.198 N	103° 58' 11.455 W 103° 58' 11.455 W
3,500.0	0.00	0.00	3,500.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	.103° 58' 11.455 W
3,600.0	0.00	0.00	3,600.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58′ 11.455 W
3,700.0	0.00	0.00	3,700.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
3,800.0	0.00	0.00	3,800.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
. 3,900.0	0.00	0.00	3,900.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
4,000.0	0.00	0.00	4,000.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
4,100.0	0.00	0.00	4,100.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
4,200.0	0.00	0.00	4,200.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
4,300.0	0.00	0.00	4,300.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
4,400.0	0.00	0.00	4,400.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
4,500.0	0.00	0.00	4,500.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
4,600.0 4,700.0	0.00	0.00	4,600.0 4,700.0	0.0 0.0	0.0 0.0	627,677.65 627,677.65	611,782.94 611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
4,800.0	0.00	0.00 0.00	4,700.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N 32° 43′ 30.198 N	103° 58' 11.455 W 103° 58' 11.455 W
4,900.0	0.00	0.00	4,900.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58′ 11.455 W
5,000.0	0.00	0.00	5,000.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
5,100.0	0.00	0.00	5,100.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
5,200.0	0.00	0.00	5,200.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
5,300.0	0.00	0.00	5,300.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
5,400.0	0.00	0.00	5,400.0	0.0	0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W



Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design: EDM 5000.1 Single User Db Mewbourne Oil Company . Eddy County, New Mexico

Section 21/28-10S-30E Phoenix 21 B2PA Phoenix 21 B2PA Federal Com #1H

Original Hole Plan #1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

	Planned Survey	1								
Depth Infolination Azimuth Depth Ayr. S. E.W. Northing Easting Eas				100			and the second			100 CONTROL (1990)
(USD) (USD										4 A C
\$5,000 0 0.00 0.00 5,000 0.0 0.0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 5,000 0 0.00 0.00 5,000 0 0.0 0 0.00 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 5,000 0 0.00 0.00 5,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 5,000 0 0.00 0.00 5,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.00 6,000 0 0.0 0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,000 0 0.0 0 0.00 6,000 0 0.0 0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,600 0 0.0 0 0.0 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,600 0 0.0 0 0.00 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,600 0 0.00 0.00 627,677.65 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 6,000 0 0.00 0.00 6,800 0 0.00 0.00 6,276,776.55 611,782.94 32° 43° 30.198 N 103° 58° 11.455 W 7,000 0 0.00 0.00 7,000 0 0.00 0.00 6,700 0 0.00 0.00 6,700 0 0.00 0.00 6,700 0 0.00 0.00 7,000 0 0.00 0.00 7,000 0 0.00 0.0										
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\$\begin{array}{cccccccccccccccccccccccccccccccccccc	5,500.0	0.00	0.00	5,500.0	0.0	0.0	627,677.65	611,782.94	32° 43' 30.198 N	103° 58' 11.455 W
\$\begin{array}{cccccccccccccccccccccccccccccccccccc	5,600.0		0.00			0.0	627,677.65	611,782.94	32° 43′ 30.198 N	103° 58' 11.455 W
5,900	5,700.0		0.00					611,782.94	32° 43' 30.198 N	
6,000 0 0.00 0.00 6,000 0.0 0 0.0 6,000 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,200 0 0.00 0.00 6,200 0 0.0 0.0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,300 0 0.00 0.00 6,300 0 0.0 0.0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,400 0 0.00 0.00 6,400 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,500 0 0.00 0.00 6,500 0 0.0 0 0.0 6,500 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,500 0 0.00 0.00 0,00 6,600 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,700 0 0.00 0.00 6,700 0 0.0 0 0.0 6,700 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,900 0 0.00 0.00 6,800 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 6,900 0 0.00 0.00 6,900 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,100 0 0.0 0 0.00 7,000 0 0.0 0 0.0 6,900 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,100 0 0.0 0 0.00 7,000 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,000 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0.0 0 0.0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0.00 7,200 0 0 0 0 0 0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0.00 0 0.00 7,500 0 0 0 0 0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0 0 0 0 0 7,500 0 0 0 0 0 0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0 0 0 0 0 7,500 0 0 0 0 0 0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0 0 0 0 0 7,500 0 0 0 0 0 0 627,677.65 611,782.94 32*43*30.198 N 103*58*11.455 W 7,200 0 0	1							•		
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8,275.0 54.66 358.73 8,209.0 201.2 -4.5 627,878.88 611,778.47 32° 43' 32.189 N 103° 58' 11.500 W										
8,300.0 57.66 358.73 8,222.9 222.0 -4.9 627,899.64 611,778.01 32° 43' 32.395 N 103° 58' 11.504 W										
8,325.0 60.66 358.73 8,235.7 243.5 -5.4 627,921.10 611,777.54 32° 43' 32.607 N 103° 58' 11.509 W								•		103° 58 ⁱ 11.509 W
8,350.0 63.66 358.73 8,247.4 265.5 -5.9 627,943.19 611,777.05 32° 43' 32.826 N 103° 58' 11.514 W									32° 43′ 32.826 N	103° 58' 11.514 W
8,375.0 66.66 358.73 8,257.9 288.2 -6.4 627,965.87 611,776.54 32° 43' 33.050 N 103° 58' 11.519 W		66.66	358.73	8,257.9	288.2		627,965.87	611,776.54	32° 43′ 33.050 N	103° 58' 11.519 W
8,400.0 69.66 358.73 8,267.2 311.4 -6.9 627,989.07 611,776.03 32° 43' 33.280 N 103° 58' 11.524 W		69.66	358.73		311.4	-6.9	627,989.07		32° 43′ 33.280 N	
8,425.0 72.66 358.73 8,275.3 335.1 -7.4 628,012.72 611,775.50 32° 43' 33.514 N 103° 58' 11.529 W							•			
8,450.0 75.66 358.73 8,282.1 359.1 -8.0 628,036.76 611,774.97 32° 43' 33.752 N 103° 58' 11.534 W										
8,475.0 78.66 358.73 8,287.6 383.5 -8.5 628,061.13 611,774.43 32° 43' 33.993 N 103° 58' 11.540 W										
8,500.0 81.66 358.73 8,291.9 408.1 -9.1 628,085.75 611,773.88 32° 43' 34.237 N 103° 58' 11.545 W	8,500.0	81.66	358.73	8,291.9	408.1	-9.1	628,085.75	611,773.88	32° 43' 34.237 N	103° 58' 11.545 W



Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Company Eddy County, New Mexico

Plan #1

Section 21/28-10S-30E Phoenix 21 B2PA Survey Calculation Method: Phoenix 21 B2PA Federal Com #1H Original Hole

Local Co-ordinate Reference: MD Reference: North Reference:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110) Grid

Mossured	Planned Survey	es a f					and the second s			
					roller in	eau a	3.00			
September Sept	Measured									Carlos Targetta
8,525,0 8,66 358,73 8,294,9 432,9 9,6 628,110.57 611,773.73 32,473.4482 N 103° 88° 11.551 W 8,550,0 87.68 358,73 8,296,6 457.9 10.2 628,135.50 611,772.77 32,473.4482 N 103° 88° 11.551 W 8,550,0 8,867,3 8,870,0 474.3 1.05 628,135.50 611,772.77 32,473.4482 N 103° 88° 11.551 W 8,550,0 8,867,3 8,867,0 474.3 1.05 628,135.50 611,772.4 13,274.3 24,473.428 N 103° 88° 11.551 W 8,550,0 9,0 31° 358,92 8,297,1 576,8 9 1.12 628,185.49 611,771,72 31° 24,73.3 22,4 N 103° 85° 11.551 W 8,550,0 9,0 31° 359,28 8,297,0 569,9 9 1.22 628,247.88 671,770,7 32,473.3 22,4 N 103° 85° 11.551 W 8,550,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0 9,0		clination 7			+N/-S	:+E/-W				
8.550.0 87.66 358.73 8.296.6 457.9 -10.2 628,135.50 611,772.77 22 '43 34,729 N 103' 58' 11.560 W 8.562.1 480.0 88.87 36.89.2 8.297.0 569.9 -11.2 628,185.40 611,771.72 41 32' 43' 35.224 N 103' 58' 11.560 W 8.662.1 90.31 359.28 8.297.0 569.9 -12.2 628,247.58 611,771.72 31' 43' 35.224 N 103' 58' 11.560 W 8.662.1 90.31 359.28 8.296.2 70.78 -12.2 628,247.58 611,771.70 23' 24' 35.224 N 103' 58' 11.550 W 8.500.0 90.31 359.28 8.296.2 70.78 -13.9 628,385.46 611,750.28 32' 43' 31.203 N 103' 58' 11.550 W 8.500.0 90.31 359.28 8.296.2 70.78 -15.2 628,855.4 611,750.28 32' 43' 31.203 N 103' 58' 11.501 W 9.000.0 90.31 359.28 8.296.2 70.78 -16.4 628,585.4 611,756.23 32' 43' 31.918 N 103' 58' 11.501 W 9.100.0 90.31 359.28 8.296.1 1,007.8 -16.4 628,585.4 611,756.28 32' 43' 31.918 N 103' 58' 11.601 W 9.100.0 90.31 359.28 8.296.1 1,007.8 -16.4 628,585.4 611,756.28 32' 43' 31.918 N 103' 58' 11.601 W 9.100.0 90.31 359.28 8.296.1 1,007.8 -18.9 628,785.4 611,764.04 32' 42' 41.1160 N 103' 58' 11.621 W 9.300.0 90.31 359.28 8.299.1 1,007.8 -12.4 628,985.4 611,764.04 32' 42' 41.1160 N 103' 58' 11.632 W 9.500.0 90.31 359.28 8.299.1 1,007.8 -22.7 629.054.0 611,761.5 32' 42' 43' 31.9 N 103' 58' 11.632 W 9.500.0 90.31 359.28 8.299.1 1,507.7 -23.9 629.185.39 611,759.0 32' 44' 43.139 N 103' 58' 11.632 W 9.500.0 90.31 359.28 8.299.1 1,507.7 -25.1 629.855.3 611,759.0 32' 44' 45.118 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.299.1 1,507.7 -25.1 629.855.3 611,759.0 32' 44' 40.179 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.299.1 1,507.7 -25.1 629.855.3 611,759.0 32' 44' 40.179 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.299.1 1,507.7 -25.1 629.855.3 611,759.0 32' 44' 40.179 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.289.1 2,507.7 -25.1 629.855.3 611,759.0 32' 44' 40.179 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.289.1 2,507.7 -25.1 629.855.3 611,759.0 32' 44' 40.108 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.289.1 2,007.7 -25.1 629.855.3 611,759.0 32' 44' 40.080 N 103' 58' 11.654 W 9.500.0 90.31 359.28 8.289.1 2,007.7 -25.1 629.855.3 611,759.0 32' 44'	(usft)	(°)	(°)	(usft)	ु(usft) 👾	ુ(usft)	(usft)	usft)	Latitude	Longitude
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8,600.0 89.87 358.92 8,297.1 907.8 -11.2 628,185.49 611,771.73 32*43* 53.23* N 103* 58*11.566 W 8,662.1 MID CPT: 3 52.24 1.00 50*	8,550.0	87.66		8,296.6	457.9	-10.2	628,135.50	611,772.77	32° 43′ 34.729 N	103° 58' 11.556 W
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13238.5' MD PBHL	13238.5' M	D PBHL					•			



Planning Report - Geographic



Database: Company: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Company . Eddy County, New Mexico

Section 21/28-10S-30E Phoenix 21 B2PA

Phoenix 21 B2PA Federal Com #1H.

Original Hole Plan #1 Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well Phoenix 21 B2PA Federal Com #1H GL 3452 + 20 @ 3472.0usft (Trinidad #110) GL 3452 + 20 @ 3472.0usft (Trinidad #110)

Grid Minimum Curvature

Design Targets						an a			
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- hit/miss target Dip /	\ngle	Dip Dir.	TVD	+N/-S	+E/-W	√Northing	Easting:		
- Shape		(°)	(usft)	(usft)	(usft)	A STATE OF THE PARTY OF THE PAR	(usft)	Latitude	Longitude
PBHL Phoenix 21 B2F - plan hits target center - Point	0.00	0.00	8,272.0	5,145.9	-69.3	632,823.59	611,713.63	32° 44' 21.121 N	103° 58′ 12.060 W
LP Phoenix 21 B2PA - plan hits target center - Point	0.00	0.00	8,297.0	570.0	-12.2	628,247.62	611,770.75	32° 43′ 35.838 N	103° 58' 11.575 W

8,662.1 13,238.5	8,297.0 8,272.0	569.9 5.145.9	-12.2 -69.3	8662.1' MD LP 13238.5' MD PBHL		
(usft) 7,819.5		(usft) 0.0		Comment 7819.5' MD		
Measured Depth		Local Coord	Inates +E/-W			
Plan Annotations (Ex						



COMPANY: Mewbourne Oil Company CUMPANT: Mewbourne Oil Company.

WELL: Phoenix 21 B2PA Federal Com #1H

COUNTY: Eddy County, New Mexico

DATUM: NAD 1927 (NADCON CONUS)

RIG: Trinidad #110

GRID CORRECTION: To convert a Magnetic Direction to a Grid Direction, Add 7.30°

OFFICE: 936.582.7296

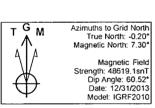
GEODETIC ZONE: New Mexico East 3001 GL 3452 + 20 @ 3472.0usft (Trinidad #110) GROUND ELEVATION: 3452.0 Northing Easting Latittude 27677.64 611782.94 32° 43' 30.198 N

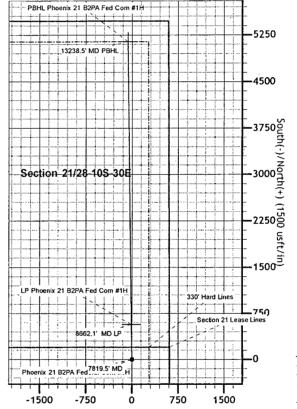
+E/-W Northing 0.0 627677.64

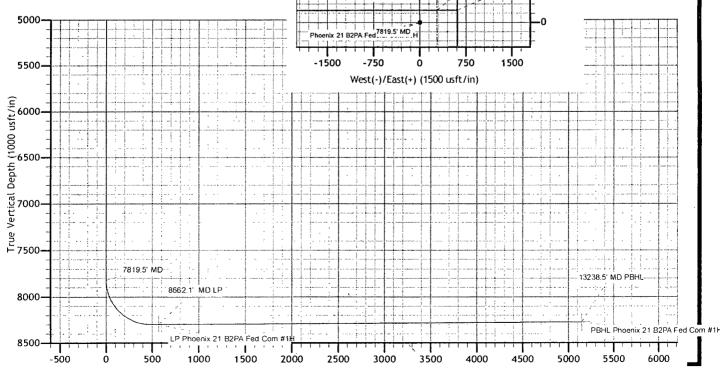
Longitude 103° 58' 11.455 W

Slot

PLAN SECTIONS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target	
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	•	
2	7819.5	0.00	0.00	7819.5	0.0	0.0	0.00	0.00	0.0		
3	8566.4	89.63	358.73	8297.0	474.3	-10.5	12.00	358,73	474.4		
4	8662.1	90.31	359.28	8297.0	570.0	-12.2	0.92	39.34	570.1	LP Phoenix 21 B2PA Fed Com #1H	
5	13238.5	90.31	359.28	8272.0	5145.9	-69.3	0.00	0.00	5146.4	PBHL Phoenix 21 B2PA Fed Com #1H	







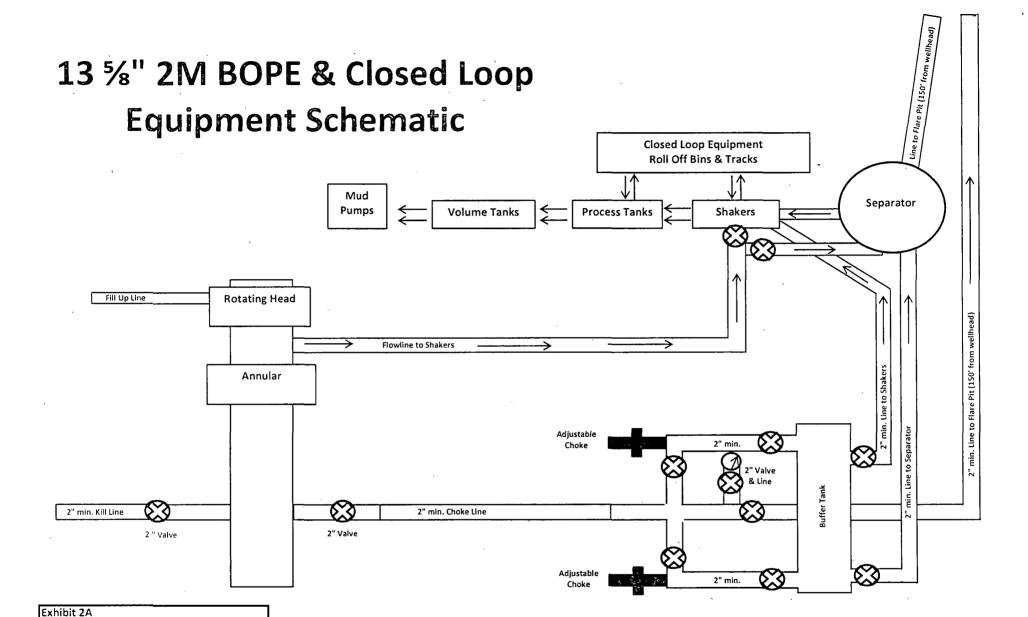
Vertical Section at 359.23° (1000 usft/in)

Notes Regarding Blowout Preventer Mewbourne Oil Company

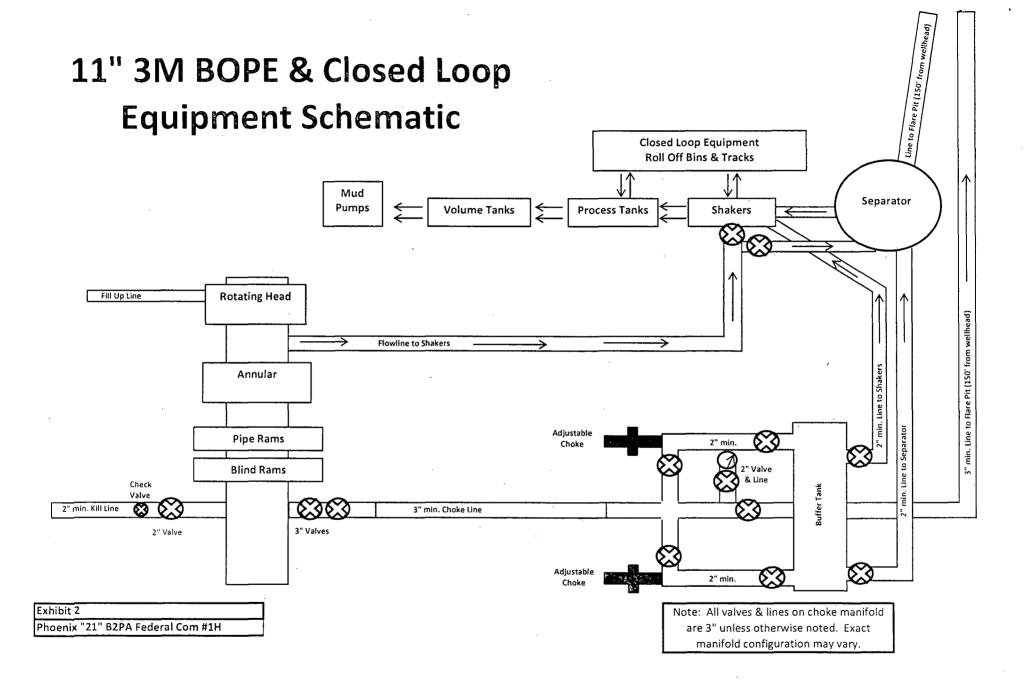
Phoenix "21" B2PA Federal Com #1H 200' FNL & 610' FEL (SHL) Sec 28-T18S-R30E Eddy County, New Mexico

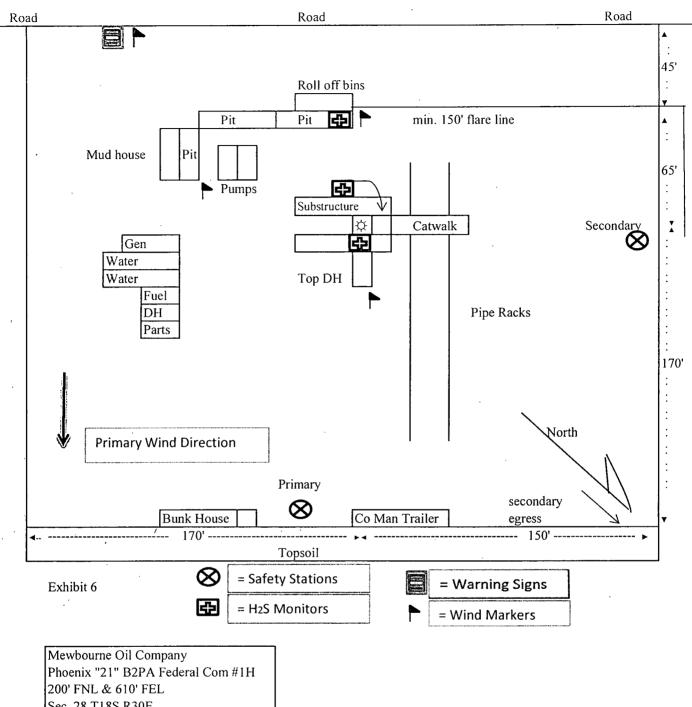
- 1. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi 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.



Phoenix "21" B2PA Federal Com #1H





Sec. 28 T18S R30E Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Phoenix "21" B2PA Federal Com #1H 200' FNL & 610' FEL (SHL) Sec 28-T18S-R30E Eddy County, New Mexico

1. General Requirements

Rule 118 does not apply to this well because MOC has researched this area and no high concentrations of H2S were found. MOC will have on location and working all H2S safety equipment before the Delaware formation for purposes of safety and insurance requirements.

2. Hydrogen Sulfide Training

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will have received training from a qualified instructor in the following areas prior to entering the drilling pad area of the well:

- 1. The hazards and characteristics of hydrogen sulfide gas.
- 2. The proper use of personal protective equipment and life support systems.
- 3. The proper use of hydrogen sulfide detectors, alarms, warning systems, briefing areas, evacuation procedures.
- 4. The proper techniques for first aid and rescue operations.

Additionally, supervisory personnel will be trained in the following areas:

- The effects of hydrogen sulfide on metal components. If high tensile tubular systems are utilized, supervisory personnel will be trained in their special maintenance requirements.
- 2 Corrective action and shut in procedures, blowout prevention, and well control procedures while drilling a well.
- 3 The contents of the Hydrogen Sulfide Drilling Operations Plan.

There will be an initial training session prior to encountering a know hydrogen sulfide source. The initial training session shall include a review of the site specific Hydrogen Sulfide Drilling Operations Plan.

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the intermediate casing.

1. Well Control Equipment

- A. Choke manifold with minimum of one adjustable choke/remote choke.
- B. Blowout preventers equipped with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit
- C. Auxiliary equipment including annular type blowout preventer.

2. Protective Equipment for Essential Personnel

Thirty minute self contained work unit located in the dog house and at briefing areas. Additionally: If H2S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H2S are detected the well will be shut in MOC will follow Onshore Order 6 and install a rotating head, mud/gas separator, remote choke and flare line with igniter will be installed.

Hydrogen Sulfide Drilling Operations Plan Mewbourne Oil Company Phoenix "21" B2PA Federal Com #1H Page 2

3. Hydrogen Sulfide Protection and Monitoring Equipment

Two portable hydrogen sulfide monitors positioned on location for optimum coverage and detection. The units shall have audible sirens to notify personnel when hydrogen sulfide levels exceed 20 PPM.

4. <u>Visual Warning Systems</u>

- A. Wind direction indicators as indicated on the well site diagram.
- B. Caution signs shall be posted on roads providing access to location. Signs shall be painted a high visibility color with lettering of sufficient size to be readable at reasonable distances from potentially contaminated areas.

4. Mud Program

The mud program has been designed to minimize the amount of hydrogen sulfide entrained in the mud system. Proper mud weight, safe drilling practices, and the use of hydrogen sulfide scavengers will minimize hazards while drilling the well.

5. Metallurgy

All tubular systems, wellheads, blowout preventers, drilling spools, kill lines, choke manifolds, and valves shall be suitable for service in a hydrogen sulfide environment when chemically treated.

6. Communications

State & County officials' phone numbers are posted on rig floor and supervisors trailer. Communications in company vehicles and toolpushers are either two way radios or cellular phones.

7. Well Testing

Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required and will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

8. Emergency Phone Numbers

Lea County Sheriff's Office	911 or 575-396-3611
Ambulance Service	911 or 575-885-2111
Carlsbad Fire Dept	911 or 575-885-2111
Closest Medical Facility - Columbia Medical	Center of Carlsbad 575-492-5000

Mewbourne Oil Company	Hobbs District Office Fax 2 nd Fax	575-393-5905 575-397-6252 575-393-7259
District Manager	Micky Young	575-390-0999
Duilling Cumonintendent	Engate Lathan	575 200 A102

Diming Superintendent	riosty Lathan	. 3/3-390-4103
	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729

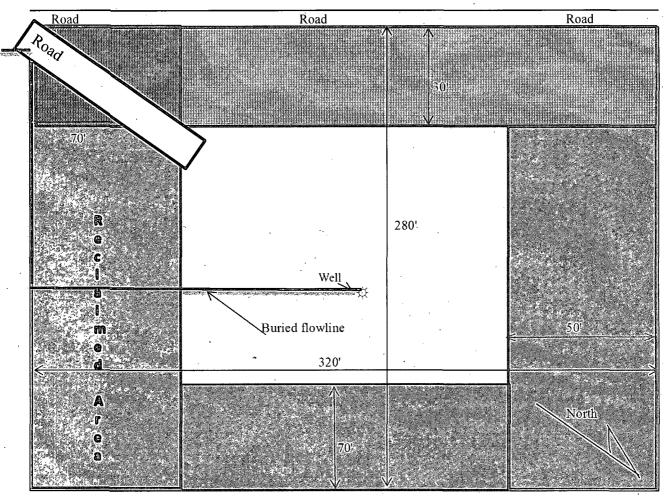


Exhibit 5

Mewbourne Oil Company Phoenix "21" B2PA Fed Com #1H 200' FNL & 610' FEL

Sec. 28 T18S R30E Eddy Co., NM

MULTI-POINT SURFACE USE AND OPERATIONS PLAN MEWBOURNE OIL COMPANY

Phoenix "21" B2PA Federal Com #1H 200' FNL & 610' FEL (SHL) Sec 28-T18S-R30E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, Covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of the surface disturbance involved, and the procedures to be followed in restoring the surface so that a complete appraisal can be made of the environmental impact associated with the proposed operations.

1. Existing Roads:

- A. Exhibit #3 is a road map showing the location of the proposed well. Existing roads are highlighted in black. Exhibits #3-#3C are maps showing the location of the proposed well and access road. Existing and proposed roads are highlighted in black.
- B. Directions to location: From the junction of Grubbs and Duvall Shaft, go north on Duval Shaft for 1.4 miles to proposed lease road.
- C. Existing roads will be maintained in a condition the same as or better than before operations begin.

2. Proposed Access Road:

- A Approx. 1,943.8 feet of existing two track road will be utilized to the location.
- B. Mewbourne Oil Co. will cooperate with other operators in the maintenance of lease roads.

3. Location of Existing Wells:

There are producing wells within the immediate vicinity of the well site. Exhibit #4 shows existing wells within a one mile radius.

4. Location of Existing and/or Proposed Facilities:

- A. There are no production facilities on this lease at the present time.
- B. In the event that the well is productive, production facilities will be at MOC's Phoenix "21" Federal Com #1H, flow line will follow new/existing roads back to MOC's existing ROW then to Phoenix "21" Federal Com #1H battery as shown in Exhibit 3E. Flow line ROW was previously approved with BLM
- C. All production vessels left on location will be painted to conform to BLM painting stipulations within 180 days of installation.

5. Location and Type of Water Supply

The well will be drilled with a combination of fresh water and brine water based mud systems. The water will be obtained from commercial suppliers in the area and/or hauled to the location by transport trucks over existing and proposed roads as indicated in Exhibit #3.

6. Source of Construction Materials

All material required for construction of the drill pad and access roads will be obtained from

construction materials required for this operation and paying any royalties that may be required on those materials.

7. Methods of Handling Waste Disposal:

- A. Drill cuttings not retained for evaluation purposed will be hauled to an off-site permitted facility.
- B. Water produced during operations will be hauled to an off-site permitted SWD in the area.
- C. If any liquid hydrocarbons are produced during operations, those liquids will be stored in suitable tanks until sold.
- D. Sewage and gray water will be safely contained on-site, and then waste will be disposed at an approved off-site facility.
- E. All trash, junk, and other waste materials will be stored in proper containers to prevent dispersal and will be removed to an appropriate facility within one week of cessation of drilling and completion activities.

8. Ancillary Facilities

There are no ancillary facilities within the immediate vicinity of the proposed well site.

9. Well Site Layout

- A A diagram of the drill pad is shown in Exhibit #6. Dimensions of the pad and location of major rig components are shown.
- B. The pad dimension of 280' x 320' has been staked and flagged.

10. Plans for Restoration of Surface

A. Within 120 days of cessation of drilling and completion operations, all equipment not necessary for production operations will be removed. The location and surrounding area will be cleaned of all trash and junk to assure the well site is left as esthetically pleasing as reasonably possible.

B. Interim reclamation:

- i. All areas not needed for production operations will be reclaimed as shown in the interim reclamation layout, exhibit #5.
- ii. In these areas, caliche will be removed, the land will be recontoured to match the surrounding area, and the topsoil from the stockpile will be spread over these areas.
- iii. The disturbed area will be restored by seeding during the proper growing season.
- iv. Any additional caliche required for production facilities will be obtained from the reclaimed areas.

C. Final Reclamation:

- i. Upon cessation of the proposed operations, if the well is abandoned, all equipment and trash will be removed and taken to a proper facility.
- ii. The location and road surfacing material will be removed and used to patch area lease roads.
- iii. The entire location will be restored to the original contour as much as reasonable possible.
- iv. The topsoil used for interim reclamation will be spread over the entire location.
- v. The disturbed area will be restored by seeding during the proper growing season.

All restoration work will be completed within 180 days of cessation of activities.

11. Surface Ownership:

The surface is owned by BLM. Archaeology is cleared through BLM MOA program.

12. Other Information:

A. The primary use of the surface at the location is for grazing of livestock.

13. Operators Representative:

A. Through APD approval, drilling, completion and production operations:

N.M. Young, District Manager Mewbourne Oil Company PO Box 5270 Hobbs, NM 88241 575-393-5905

Mewbourne Oil Company

PO Box 5270 Hobbs, NM 88241 (575) 393-5905

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 14 day of January, 2014.
Name: NM Young
Signature: Fradly Briles For un roung
Position Title: Hobbs District Manager
Address: PO Box 5270, Hobbs NM 88241
Telephone: <u>575-393-5905</u>
E-mail: myoung@mewbourne.com

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME: Mewbourne Oil Company
LEASE NO.: NMLC-028978A
WELL NAME & NO.: Phoenix 21 B2PA Federal 1H
SURFACE HOLE FOOTAGE: 0200' FNL & 0610' FEL
BOTTOM HOLE FOOTAGE 0330' FNL & 0660' FEL Sec. 21, T. 18 S., R 30 E.
LOCATION: Section 28, T. 18 S., R 30 E., NMPM
COUNTY: Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

☐ General Provisions	
Permit Expiration	
Archaeology, Paleontolo	gy, and Historical Sites
Noxious Weeds	,
Special Requirements	
Surface Pipeline Spec	rial Requirements
Recreation Area Requ	irements
Lesser Prairie-Chicke	n Timing Stipulations
Ground-level Abando	ned Well Marker
Construction .	
Notification	•
Topsoil	•
Closed Loop System	
Federal Mineral Mate	rial Pits
Well Pads	
Roads	
Road Section Diagram	
⊠ Drilling	
Cement Requirement	S
H2S Requirements	
Secretary's Potash	•
Logging Requiremen	
Waste Material and F	
⊠ Production (Post Drillin	=
Well Structures & Fa	cilities
Pipelines	
Interim Reclamation	,
☒ Final Abandonment & 1	Reclamation •

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Surface Pipeline Special Requirements

- The surface pipeline route easement must not have a travel way (two-track road) associated with it. The operator must insure that the pipeline easement is not used as a travel way for vehicles. Reclamation of a road is required if one appears along the pipeline route.
- During installation, the existing livestock water pipeline must not be disturbed.

• Leak Detection System:

A method of detecting leaks is required. The method could incorporate gauges to measure loss, situating values and lines so they can be visually inspected, or installing electronic sensors to alarm when a leak is present. Leak detection plan will be submitted to BLM for approval.

Recreation Area Requirements:

Pipelines shall be buried a minimum of 24 inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. Power poles and associated ground structures (poles, guy wires) will not be placed within 20 feet of recreation trails. Guy wires must be equipped with a sleeve, tape or other industry approved apparatus that is highly visible during the day and reflective at night. Appropriate safety signage will be in place during all phases of the project. Upon completion of construction, the road shall be returned to pre-construction condition with no bumps or dips. All vehicle and equipment operators will observe speed limits and practice responsible defensive driving habits.

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching:

Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattleguards

An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

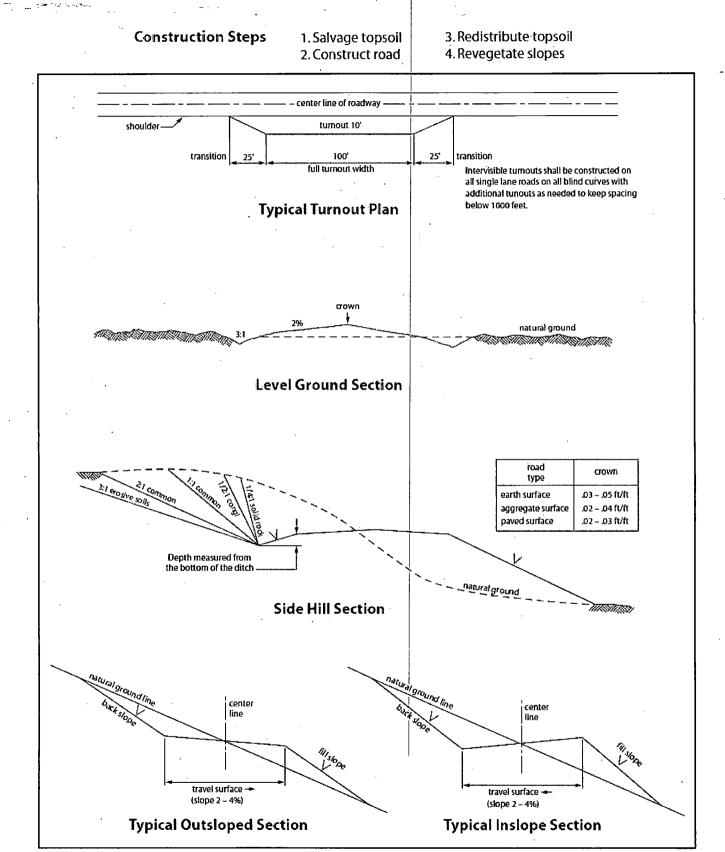


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe and a Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the Queen formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. If the drilling rig is removed without approval an Incident of Non-Compliance will be written and will be a "Major" violation.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.).

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time prior to drilling out for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. DURING THIS WOC TIME, NO DRILL PIPE, ETC. SHALL BE RUN IN THE HOLE. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. IF OPERATOR DOES NOT HAVE THE WELL SPECIFIC CEMENT DETAILS ONSITE PRIOR TO PUMPING THE CEMENT FOR EACH CASING STRING, THE WOC WILL BE 30 HOURS. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Secretary's Potash

Possibility of water flows in the Artesia Group, Salado, and Queen. Possibility of lost circulation in the Artesia Group, Rustler, Grayburg, San Andres, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 445 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. If salt is encountered, set casing at least 25 feet above the salt.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash. Excess calculates to 22% Additional cement may be required.

Centralizers required through the curve and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least 500 feet into previous casing string. Operator shall provide method of verification. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.
- 4. Cement not required on the 4-1/2" casing. Packer system being used.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 2000 (2M) psi.
 - a: For surface casing only: If the BOP/BOPE is to be tested against casing, the wait on cement (WOC) time for that casing is to be met (see WOC statement at start of casing section). Independent service company required.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8 intermediate casing shoe shall be 3000 (3M) psi.

- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
 - b. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (18 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - d. The results of the test shall be reported to the appropriate BLM office.
 - e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
 - f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1 ½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the

largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

STANDARD STIPULATIONS FOR SURFACE INSTALLED PIPELINES

A copy of the application (Grant, Sundry Notice, APD) and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to activity of the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

- 4. The holder shall be liable for damage or injury to the United States to the extent provided by 43 CFR Sec. 2883.1-4. The holder shall be held to a standard of strict liability for damage or injury to the United States resulting from pipe rupture, fire, or spills caused or substantially aggravated by any of the following within the right-of-way or permit area:
 - a. Activities of the holder including, but not limited to construction, operation, maintenance, and termination of the facility.
 - b. Activities of other parties including, but not limited to:
 - (1) Land clearing.
 - (2) Earth-disturbing and earth-moving work.
 - (3) Blasting.
 - (4) Vandalism and sabotage.
 - c. Acts of God.

The maximum limitation for such strict liability damages shall not exceed one million dollars (\$1,000,000) for any one event, and any liability in excess of such amount shall be determined by the ordinary rules of negligence of the jurisdiction in which the damage or injury occurred.

This section shall not impose strict liability for damage or injury resulting primarily from an act of war or from the negligent acts or omissions of the United States.

- 5. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil, salt water, or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil, salt water, or other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any responsibility as provided herein.
- 6. All construction and maintenance activity will be confined to the authorized right-of-way width of _____ feet.
- 7. No blading or clearing of any vegetation will be allowed unless approved in writing by the Authorized Officer.
- 8. The holder shall install the pipeline on the surface in such a manner that will minimize suspension of the pipeline across low areas in the terrain. In hummocky of duney areas, the pipeline will be "snaked" around hummocks and dunes rather then suspended across these features.

- 9. The pipeline shall be buried with a minimum of <u>24</u> inches under all roads, "two-tracks," and trails. Burial of the pipe will continue for 20 feet on each side of each crossing. The condition of the road, upon completion of construction, shall be returned to at least its former state with no bumps or dips remaining in the road surface.
- 10. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. Excluding the pipe, all above-ground structures not subject to safety requirement shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be a color which simulates "Standard Environmental Colors" **Shale Green**, Munsell Soil Color No. 5Y 4/2; designated by the Rocky Mountain Five State Interagency Committee.
- 13. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. Signs will be maintained in a legible condition for the life of the pipeline.
- 14. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway.
- 15. Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on his behalf, on public or Federal land shall be immediately reported to the authorized officer. Holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to proper mitigation measures will be made by the authorized officer after consulting with the holder.
- 16. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where

noxious weeds exist, which includes the roads, powerline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

17. Surface pipelines must be less than or equal to 4 inches and a working pressure below 125 psi.

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/acre</u>
Plains Bristlegrass	5lbs/A
Sand Bluestem	5lbs/A
Little Bluestem	3lbs/A
Big Bluestem	6lbs/A
Plains Coreopsis	2lbs/A
Sand Dropseed	1lbs/A

^{*}Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed