closed loop

Form 3160 -3

(March 2012)

Carlsbad Field O ARTESIA DISTRICT

MAY 05 2016

ATS-15-363

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

UNITED STATES

DEPARTMENT OF THE BUREAU OF LAND MAN	5. Lease Serial No. NMNM 107374 & F						
APPLICATION FOR PERMIT TO	DRILL OR REEN	ITER		6. If Indian, Allotee	or Tribe i	√ame	
la. Type of work: DRILL REENTI	la. Type of work: ✓ DRILL REENTER						Vo.
lb. Type of Well: Oil Well Gas Well Other	✓ Single Zone	Multip	ole Zone	Lease Name and Delaware Ranch 1	Well No. 1/14 B2D	Fed C	 om <i>#</i> /#
2. Name of Operator Mewbourne Oil Company				9. API Well No. 30-01	15-4:	374	7
3a. Address PO Box 5270 Hobbs, NM 88241	10. Field and Pool, or Red Bluff South Bo	Explorator	у				
4. Location of Well (Report location clearly and in accordance with an At surface 185' FNL & 545' FWL, Sec. 11 T26S R28E At proposed prod. zone 330' FSL & 545' FWL, Sec. 14 T26	UNOR	GOHT FOITA	X	11. Sec., T. R. M. or B Sec. 11 T26S R28	E	vey or Ai	rea
14. Distance in miles and direction from nearest town or post office* 11 miles S of Malaga, NM	12. County or Parish Eddy		13. State	:			
15. Distance from proposed* 185' location to nearest property or lease line, fl. (Also to nearest drig, unit line, if any)	16. No. of acres in lease 17. Spacing U 320			g Unit dedicated to this	well	,	·
 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 	19. Proposed Depth 8,193' - TVD 18,130' - MD			/BIA Bond No. on file 13 nationwide, NMB-000919			
21. Elevations (Show whether DF, KDB, Rf, GL, etc.) 2963' - GL	22. Approximate date 03/22/2015	work will star	t*	23. Estimated duration 60 days			
	24. Attachments						
The following, completed in accordance with the requirements of Onshor	e Oil and Gas Order No.	I, must be at	tached to th	s form:			
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 	Lands, the 5. Ope	n 20 above). rator certific ch other site :	ation	ns unless covered by an	J		
25. Signature Bradley Bules	Name (Printed/I Bradley Bisho				Date 01/22/2	015	
Title							Ş
Approved by (Signature) /s/George MacDonell	Name (Printed/I	yped)			Date MA	1 2	2016
Title	Office	. (CARLSB	AD FIELD OFFICE			

FIELD MANAGER Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

*(Instructions on page 2)

Accepted for record NMOCD Carlsbad Controlled Water Basin

> SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 22 day of JAN, 2015.
Name: Robin Terrell
Signature: The M
Position Title: Hobbs District Manager
Address: PO Box 5270, Hobbs NM 88241
Telephone: <u>575-393-5905</u>
E-mail: rterrell@mewbourne.com

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720 District III 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

API Number

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

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

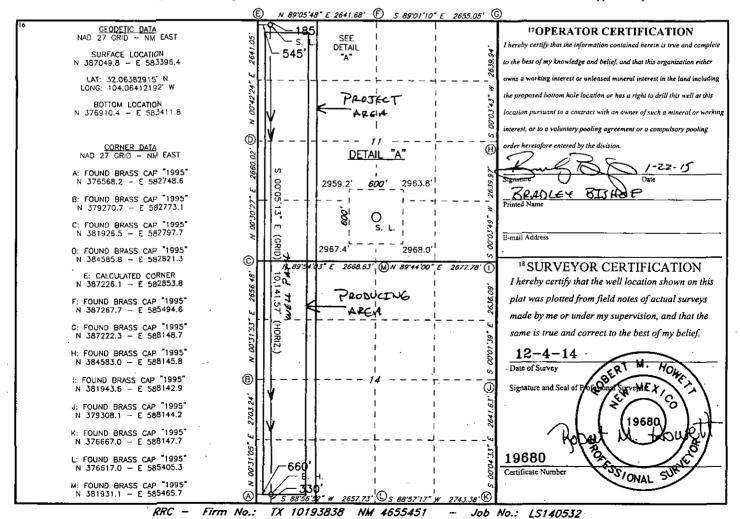
☐ AMENDED REPORT

WE	WELL LOCATION AND ACREAGE DEDICATION PLAT					
	² Pool Code	3 Pool Name				
<i>,</i>	51010	RED BLUFF SOUTH BONE SPRING				
	5 Property Name 6 Well Number					
	DDT 477 (DD D 1270)					

30-015-43747 6190 DELAWARE RANCH 11/14 B2DM FED COM 1H 70GRID NO. 8 Operator Name 9 Elevation 14744 MEWBOURNE OIL COMPANY 2963'

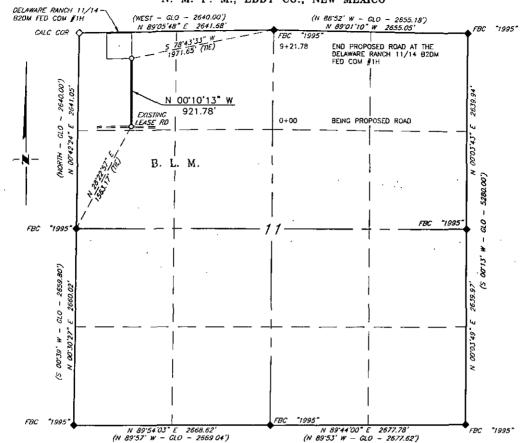
¹⁰ Surface Location UL or lot no. Township Range Lot Idn Feet from the North/South line Section Feet From the East/West line County 28E D **26S** 185 NORTH 545 **EDDY** 11 û Bottom Hole Location If Different From Surface UL or lot no. Feet from the Section Range North/South line Feet from the East/West line County **26S** 28E 330 SOUTH 660 M 14 WEST **EDDY** 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 320

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



MEWBOURNE OIL COMPANY DELAWARE RANCH 11/14 B2DM FED COM #1H (185' FNL & 545' FWL) SECTION 11, T26S, R28E N. M. P. M., EDDY CO., NEW MEXICO 2953.8 2959.2 600' COG SRO STATE # 59H DELAWARE RANCH 11/14 B2DM FED COM #1H ELEV.: 2963 LAT: 32.06382915° N LONG: 104.06412192° W EXIST. ELEC. EXIST. FENCE SECTION 2 SECTION 11 2960.8 2960.7' 2963.8 9 340° 170' 170' PROPOSED PAD 340 2965.4 2965.4 2965.5" (SEE ROAD EASEMENT) 600 2967.4 2968.0' DIRECTIONS TO LOCATION From the intersection of U.S. Hwy. 285 and CR-725 (Longhorn Road); Go Northwest on U.S. Hwy 285 approx. 1.1 miles to lease road on right; Turn right and go East approx. 0.1 miles to proposed road on left; Turn left following proposed road and go North approx. 0.2 miles to location on the left. TX 10193838 NM 4655451 Copyright 2014 - All Rights Reserve SCALE: 1" = 100" DATE: 12-5-14 SURVEYED BY: BK/JB REVISION DRAWN BY: RMH APPROVED BY: RMH JOB NO .: LS140532 SHEET : 1 OF 1 DWG. NO.: 140532PAD 308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

MEWBOURNE OIL COMPANY PROPOSED ACCESS ROAD FOR THE DELAWARE RANCH 11/14 B2DM FED COM #1H SECTION 11, T26S, R28E, N. M. P. M., EDDY CO., NEW MEXICO



DESCRIPTION

A strip of land 30 feet wide, being 921.78 feet or 55.865 rods in length, lying in Section 11, Township 26 South, Range 28 East, N. M. P. M., Eddy County, New Mexico, being 15 feet left and 15 feet right of the following described survey of a centerline across B. L. M. land

BEGINNING at Engr. Sta. 0+00, a point in the Northwest quarter of Section 11, which bears N 28'22'57" E, 1,563.17 feet from a brass cap, stamped "1995", found for the West quarter corner of Section 11;

Thence N 00°10′13″ W, 921.78 feet, to Engr. Sta. 9+21.78, the End of Survey, a point which bears $\frac{5}{2}$ 78°43′33″ W, 1,971.65 feet from a brass cap, stamped "1995", found for the North quarter corner of Section 11.

Said strip of land contains 0.635 acres, more or less and is allocated by forties as follows:

NW 1/4 NW 1/4

55.865 Rods

~ 1000° 500 1000 BEARINGS ARE GRID HAD 27 NM EAST DISTANCES ARE HORIZ. GROUND.

LEGEND

RECORD DATA - GLO FOUND MONUMENT

PROPOSED ROAD

I, R. M. Howett, a N. M. Professional Surveyor, hereby certify that I prepared this plat from an actual survey made on the ground under my direct supervision, said survey and plat meet the Min. Stas. for Land Surveying in the State of N. M. and are true and correct to the best of my knowledge and belief.

Robert M. Howel Robert M. Howett NM PS 19680

ROBERT HOWE SEN MEXIC 19680 PARTIS ONAL SURVE

TX 10193838 NM 4655451

REVISION JOB NO.: LS140532

DWG. NO.: 140532RD

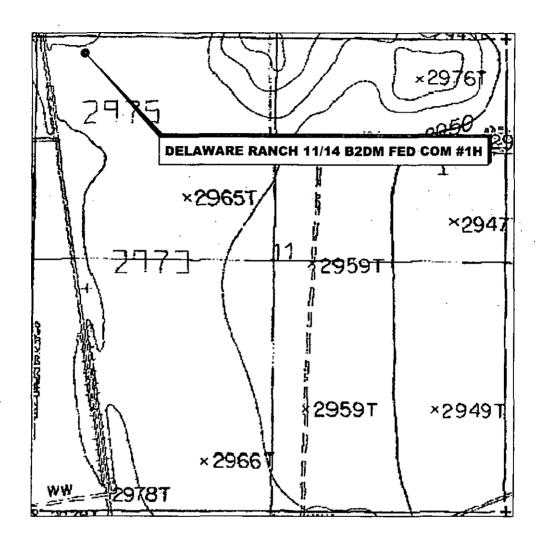
SCALE: 1" = 1000 DATE: 12-4-2014 SURVEYED BY: BK/JB DRAWN BY: RMH APPROVED BY: RMH

SHEET: 1 OF 1

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(575) 964-8200 308 W. BROADWAY ST., HOERS, HM 88240

LOCATION VERIFICATION MAP



SECTION 11, TWP. 26 SOUTH, RGE. 28 EAST, N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company

LEASE: Delaware Ranch 11/14 B2DM Fed Com

WELL NO.: 1H

ELEVATION: 2963'

LOCATION: 185' FNL & 545' FEL

CONTOUR INTERVAL: 10'

USGS TOPO. SOURCE MAP:

Red Bluff, NM (P. E. 1985)

Firm No.: [X 10193838 NM 4655451

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NO.	REVISION	DATE
JOB	NO.: LS1405	532
DWG	. NO.: 14053	2LVM

RRC

308 W. BROADWAY ST., HOBBS, NM 88240 (575) 964-8200

SCALE: 1"=1000'

DATE: 12-4-14

SURVEYED BY: BK/KR

DRAWN BY: RMH

APPROVED BY: RMH

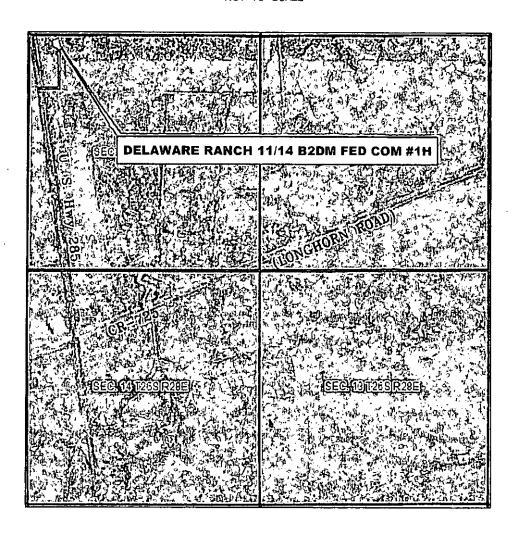
SHEET: 1 OF 1

Replacement page

Exhibit 3E

VICINITY MAP

NOT TO SCALE



SECTION 11, TWP. 26 SOUTH, RGE. 28 EAST, N. M. P. M., EDDY CO., NEW MEXICO

OPERATOR: Mewbourne Oil Company

LEASE: Delaware Ranch 11/14 B2DM Fed Com ELEVATION: 2963'

WELL NO .: 1H

LOCATION: 185' FNL & 545' FWL

Firm No.: TX 10193838 NM 4655451

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SCALE: NTS

REVISION DATE JOB NO.: LS140532 DWG. NO.: 140532VM

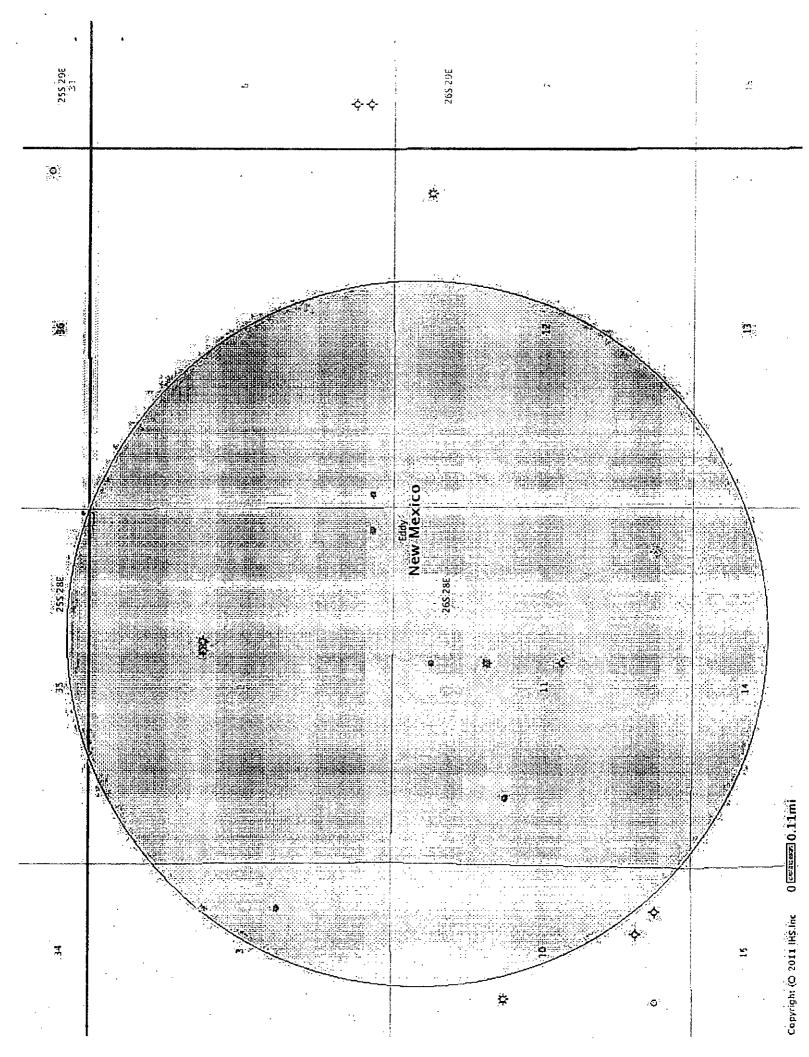


DATE: 12-5-14 SURVEYED BY: BK/JB DRAWN BY: RmH APPROVED BY: RMH

SHEET: 1 OF 1

308 W. BROADWAY ST., HOBBS, NM 88240

(575) 964-8200



Mewbourne Oil Company, Delaware Ranch 11/14 B2DM Fed Com #1H

Sec 11, T26S, R28E SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

1. Geologic Formations

TVD of target	8193'	Pilot hole depth	NA
MD at TD:	18130'	Deepest expected fresh water:	100'

Basin

Dasin			
Formation (*	Depth (TVD)	Water/Mineral Bearing/ * Ilarget Zone?	Hazards
		Paraget/Zone	on the Or of the County
Quaternary Fill .	Surface		
Rustler	430	Water	
Top of Salt	755	Salt	
Tansill	2410		,
Lamar	2585	Oil	
Bell Canyon	2620	Oil	
Cherry Canyon			
Manzanita Marker	3590		
Brushy Canyon			
Bone Spring	6305	Oil/Gas	
1 st Bone Spring Sand		Oil/Gas	
2 nd Bone Spring Sand	7995	Target Zone	
3 rd Bone Spring Sand			
Abo			
Wolfcamp		Will Not Penetrate	_
Devonian			
Fusselman			
Ellenburger .			
Granite Wash			

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

SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

2. Casing Program

See CC	PA								
Hole Size	Casing From	Intervale	Csg. Size!	Weight (Îbs)	Grade	Conn.	SF Collapse	SF. Burst	SF. Tension
17.5"	0'	455° 200'	13.375"	48	H40	STC	3.13	7.31	14.74
12.25"	0'	2500'	9.625"	36	J55	LTC	1.55	2.71	5.03
8.75"	0'	1198'	7"	26	P110	BTC	12.52	15.99	2.20
8.75"	1198'	7716'	7"	26	P110	LTC	1.94	2.48	2.00
8.75"	7716'	8468'	5.5"	17 .	P110	BTC	1.76	2.50	3.08
8.75"	8468'	18130'	5.5"	17	P110	LTC	1.76	2.5	2.70
				BLM Min	mum Safet	y Factor	1.125	1	1.6 Dry 1.8 Wet

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

Must have table for contingency casing

	. I
	***YgorsNa
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Is casing API approved? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Y
justification (loading assumptions, casing design criteria).	
Will the pipe be kept at a minimum 1/3 fluid filled to avoid approaching the	Y
collapse pressure rating of the casing?	
whitehouse the state of the sta	
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary.	
是在企业的企业的企业,在企业的企业的企业的企业的企业,在企业的企业的企业,在企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企业的企	1 7
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	1
500' into previous casing?	
Is well located in R-111-P and SOPA?	N N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
	A 1992 SAM
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	,
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
THE REPORT OF THE PROPERTY OF	TO THE WATER OF
Is well located in critical Cave/Karst?	N _
If yes, are there three strings cemented to surface?	

SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

3. Cementing Program

J. Cem	· · · · · · · · · · · · · · · · · · ·	10811111				
Casing	#Sks	Wt. lb/ gal	YId ft3/ sack	H ₂ 0 gal/ sk	500# Comp. Strengthy (hours)	Slurry Description
Surf.	475	14.8	1.34	6.3	5	Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Inter. See	335	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
COA	200	14.8	1.34	6.3	5	Tail: Class C + 0.005pps Static Free + 1% CaCl2 + 0.25 pps CelloFlake + 0.005 gps FP-6L
Prod.	1440	11.2	2.99	17	74	(15:61:11) Class C+5#/sk LCM+0.6% FL-52+9.2#/sk CSE-2+3% Sodium Metasilicate

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

Casing String	TOCHER	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	2300'	25%

SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?		System Rated WP	1	ype		Tested to:
·				ınular	X	1250#
		2M	Blir	nd Ram		
12-1/4"	13-5/8"	₽ M	Pip	e Ram		
		·	Double Ram			
			Other*			
			Ar	nular	Χ	1500#
	11"	3M	Blind Ram		Χ	
8-3/4"			Pipe Ram		X	2000#
			Doul	ole Ram		3000#
			Other*			
			Ar	nular		
			Blind Ram			
			Pipe Ram			
			Double Ram			
			Other*			

^{*}Specify if additional ram is utilized.

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

X Formation integrity test will be performed per Onshore Order #2.
On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.

Mewbourne Oil Company, Delaware Ranch 11/14 B2DM Fed Com #1H $\,$

Sec 11, T26S, R28E SL: 185' FNL & 545' FWL, Sec 11

BHL: 330' FSL & 545' FWL, Sec 14

	Variar	nce: None							
	Y /N Are anchors required by manufacturer?								
N	install	tibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after ation on the surface casing which will cover testing requirements for a maximum of rs. If any seal subject to test pressure is broken the system must be tested.							
		Provide description here							

5. Mud Program

See COA

J. Midd I vog					
Brom (1)	Tio	Туре	Weight (pag)	Viscosity.	Wara#Eoss
0	455 200'	FW Gel	8.6-8.8	28-34	N/C
455	2500	Saturated Brine	10.0	28-34	N/C
2500	7716	Cut Brine	8.5-9.3	28-34	N/C
7716	18130	FW w/Polymer	8.5-9.5	30-40	N/C

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain	Visual Monitoring
of fluid?	

6. Logging and Testing Procedures

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

Add	litional logs planned	Ma Unterval & Arra & Arra
X	Gamma Ray	7716' (KOP) to TD
	Density .	·.
	CBL	
	Mud log	
	PEX	

SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3523 psi
Abnormal Temperature	No

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

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

H2S is present

X H2S Plan attached

8. Other facets of operation

Is this a walking operation? If yes, describe. Will be pre-setting casing? If yes, describe.

	ehments
V	Directional Plan
	Other, describe

Mewbourne Oil Company

Eddy County, New Mexico Delaware Ranch 11/14 B2DM Fed Com 1H Sec 11, T26S, R28E

SL: 185' FNL & 545' FWL, Sec 11 BHL: 330' FSL & 545' FWL, Sec 14

Plan: Design #1

Standard Planning Report

11 December, 2014

Hobbs

Mewbourne Oil Company

Eddy County, New Mexico

Delaware Ranch 11/14 B2DM Fed Com 1H

Well: Sec 11: T26S: R28E

BHL: 330 FSL & 545 FWL, Sec 14 Wellbore:

Design #1 Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Site Delaware Ranch 11/14 B2DM Fed Com

WELL @ 2983,0usft (Original Well Elev) WELL @ 2983.0usft (Original Well Elev)

Grid

Caratararilla affarica

Minimum Curvature

Project. Eddy County, New Mexico

Map System:

US State Plane 1927 (Exact solution)

Geo Datum:

NAD 1927 (NADCON CONUS)

Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Ground Level:

Site 4 4 Delaware Ranch 11/14 B2DM Fed Com 1H

Site Position: From:

Position Uncertainty

Map

Northing: Easting:

Wellhead Elevation:

0.0 usft

387,049,80 usft 583,396.40 usft

2,983.0 usft

Latitude: Longitude:

32° 3' 49.785 N 104° 3′ 50.839 W

2,963.0 usft

Position Uncertainty: Slot Radius: 13-3/16 " CO usft Grid Convergence: 0.14

Well (\$1.50) | Sec. 11,1285; R28E (1,10) | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,000 | 1,0 Well Position 387.049.80 usft 32° 3' 49.785 N +N/-S 0.0 usft Northina: Latitude: +F/-W 0.0 usft 583,396,40 usft 104° 3' 50,839 W Easting: Longitude:

Wellbore BHL: 330' FSL & 545' FWL, Sec 14 Model Name a (nT)。 IGRF200510 12/11/2014 59.90 48,174

Design The Earth Design #1. 56. Audit Notes: Version: **PROTOTYPE** Tie On Depth: 0.0 Phase: Depth From (TVD) +N/-S Vertical Section: +E/-W : F. Direction' (usft) . (usft) (usft) \$ 18 (1) 1 VS 0.0 0.0 180.56

Plan Sections Measured Depth (usft)	inclination (1)	/Azimuth	Vertical Depth	+N/-Si	+E/-Wi	/Doglegi /Rate /(*/100usft)	Build Rate 1(7/100usfi)	Turn (Rate (*/100usft)	irio (Target L
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,715.5	0.00	0.00	7,715.5	0.0	0.0	0.00	0.00	0.00	0.00	<u>:</u>
8,468.0	90.30	180.56	8,193.0	-480.0	-4.7	12.00	12.00	0.00	-179.44	
18,130.2	90.30	180,56	8,143.0	-10,141.5	-99,7	0.00	0.00	0,00	0.00	BHL: 330 FSL & 545 I

Database: Hobbs

Local Co-ordinate Reference: Site Delaware Ranch 11/14 B2DM Fed Com
1H
Company: 8

Reference: 17

Eddy County, New Mexico
Delaware Ranch 11/14 B2DM Fed Com 1H
North Reference: 18

North Reference: 19

Minimum Curvature

Design: 11

Design: 11

Design: 11

Design: 12

Design: 12

Design: 13

Design: 14

Design: 14

Design: 15

Design: 17

Planned Survey, Yes	7 1 1 2 4	1,55,7569,8	un de a Care	enggastagatik	जिल्हा ।				A CASALITA MAGA
F 19 19 19 19 19 19 19 19 19 19 19 19 19	ر ا		20.	L.C.	Trans.				
Measured **.			Vertical			Vertical	Dogleg.	/Build	Turns
Depth	Inclination	្នូ ^r Azimuth្	Depth	+N/-S		Section 🚴 🕯	JRate 2	Rate .	Rate
(usft)	Control of the	· · · · · · (智)(中) [34].	(usft)	A((usft))	(a(net))	i(usft)	(*/100usft)	វី(វ.100nzu) 🕬 និ	(*/100usft)市(数字)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 185 FNL 8		** ** * ***				· ·	· . •		
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
1					•				
500.0	0.00	0.00	500.0	0.0	0.0	0,0	0,00	0.00	0.00
600.0 700.0	0.00 0.00	0.00 0.00	600.0 700.0	. 0.0 0.0	0.0 0.0	0.0 0.0	0.00	0.00 0.00	0.00 0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0,00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000,0									
1,000.0 1,100.0	0.00 0.00	0.00 0.00	1,000.0 1,100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0,0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0,00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0,0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0,0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0 2,400.0	0.00 0.00	0.00 0.00	2,300.0 2,400.0	0.0 0.0	0.0 0.0	0,0 0.0	0 00	0.00 0.00	0.00 0.00
			•				0.00		
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0,00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0 2,800.0	00.00 00.00	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
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
•									
3,000.0 3,100.0	0.00 0.00	00,00 00.0	3,000.0 3,100.0	0,0 0.0	0,0 0.0	0,0 0,0	0.00 0.00	0.00 0.00	0.00 0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0 .	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	. 0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	, 0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0 4,400.0	0.00 0.00	0.00 0.00	4,300.0	0.0	0.0	0,0	0.00	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 4,800.0	0.00 0.00	0.00 0.00	4,700.0 4,800.0	-0.0 0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0 0.0	0.0 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
5,100.0	0,00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00

Hobbs

Database:
Company:
Project: Mewbourne Oil Company Eddy County, New Mexico

Delaware Ranch 11/14 B2DM Fed Com 1H

Sec.11; T26S, R28E

Well: Wellbore: Design: BHL: 330 FSL & 545 FWL, Sec 14 Design #14.25

Local Co-ordinate Reference: 4.3

TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Site Delaware Ranch 11/14 B2DM Fed Com

WELL @ 2983,0usft (Original Well Elev) WELL @ 2983.0usft (Original Well Elev)

Planned Survey		31' 4 <u>.</u> :					ryk-taaninnin		5-14-05-0-15-1-15-15-15-15-15-15-15-15-15-15-15-1
Flamed Survey		V PERSON	. 1		18 14 1 miles	AND WALL	97 38-A	7. 11.3. 14.3	704 M
Measured			(Vertical	Carlo S		Vertical	Dogleg	Build	Turn
Depth	Inclination	Azimuth	Depth . :	TNI-S	El-W	Section	Rate	Rate over 2	a Rate Mark 1920
(usft) in	(r) (a)	(1) 建	(usft)	ˈˈːˈˈˈːˈˈːˈːˈːˈːˈːːˈːːːˈːːːːːːːːːːːːːː	j(usft)		≨(°/100usft)∰	(*/100usft)	(f/100usft)
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	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0,0	0.00	0.00	0.00
5,600.0		0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0,0	0.00	0.00	. 0.00
5,800.0		0.00	5,800.0	0.0	0.0	0,0	0.00	0.00	0.00
5,900.0	0.00	0,00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0		0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0		0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0		0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0 6,400.0		0.00 0.00	6,300.0 6,400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00	0.00	0.00 0.00
i i							0.00	0.00	
6,500.0		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	6,600.0 6,700.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00	0.00 0.00
6,800.0		0.00	6,800.0	0.0	0.0	0.0	0.00	0.00 0.00	0.00
6,900.0		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	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0		0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0,00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0		0,00	7,600.0	0.0	0.0	0.0	0,00	0.00	0.00
7,700.0		0.00	7,700.0	0.0	0.0	0.0	0.00	0 00	0.00
7,715.5		0.00	7,715.5	0.0	0.0	0.0	0.00 	9,000 ##################################	0.00 #1997-34: 1997-3-3-
KOP @ 771 7,800.0			7 700 6	7 5	0.1	7.5	110,150	25 34 1 1 2 2 4 4 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	27 1 2 5 1 11 1
1		180.56	7,799.6	-7.5	-0.1	7.5	12.00	12.00	0.00
7,900.0		180,56	7,895.4	-35.2	-0.3	35.2	12.00	12,00	0.00
8,000.0 8,099,3		180,56 180,56	7,983,5 8,059.3	-82.3 -146.1	-0.8 -1.4	82,3	12.00	12.00	0.00 0.00
	Point: 330 FNL &		6,059.5	-140.1	-1.4	146,1	12.00 १ दस्तर्वसम्बद्धाः	12.00 GROSLAG ASTRUMUS	
8,100.0		180,56	8,059.8	-146.6	-1.4	146.6	12.00	12.00	0.00
8,200.0		180.56	8,121.0	-225.4 .	-2.2	225.4	. 12.00	12.00	0.00
8,300.0		180.56	8,164.6	-315.2	-3,1	-315.2	12.00	12.00	0.00
8,400.0		180.56	8,188.5	-412.1	-3.1 -4.1	412,1	12.00	12.00	0.00
8,468.1	90,30	180,56	8,193.0	-480.0	-4.7	480.0	11.99	11.99	0.00
LP: 665 FN	L & 545 FWE 5/4	HA ATT				•	5.5 4 0356		រូបរាធារក បន្ទាក
8,500.0	90.30	180.56	8,192.8	-511.9	-5,0	511.9	0.00	0.00	0.00
8,600.0	90.30	180,56	8,192.3	-611.9	-6.0	611.9	0.00	0.00	0.00
8,700.0	90.30	180.56	8,191:8	· -711.9	-7.0	711.9	0.00	0.00	0.00
8,800.0	90.30	180.56	8,191.3	-811.9	-8.0	811.9	0.00	0.00	0.00
8,900.0		180.56	8,190.8	-911.9	-9.0	911.9	0.00	0.00	0.00
9,000.0		180.56	8,190.2	-1,011.9	-9.9	1,011.9	0,00	0.00	0.00
9,100.0	90.30	180.56	8,189.7	-1,111.9	-10.9	1,111.9	0,00	0.00	0.00
9,200.0		180.56	8,189.2	-1,211.9	-11.9	1,211.9	0.00	0.00	0.00
9,300.0		180.56	8,188.7	-1,311.9	-12.9	1,311.9	0.00	0.00	0.00
9,400.0		180.56	8,188 2	-1,411.9	-13.9	1,411.9	0.00	0.00	0,00
9,500.0 9,600.0	90.30 90.30	180,56 180,56	8,187.7 8,187.1	-1,511.9 -1,611.8	-14,9 15.8	1,511.9 1,611.9	0.00 0.00	0.00 0.00	0.00 0.00
l. '									
9,700.0	90.30	180.56	8,186.6	-1,711.8	-16.8	1,711.9	0.00	0.00	0.00

Hobbs

Mewbourne Oil Company Eddy County, New Mexico

Delaware Ranch 11/14 B2DM Fed Com 1H

Site: Sec 11, T26S, R28E

BHL: 330' FSL & 545' FWL, Sec 14

Wellbore: Design: j Design #1 Local Coordinate Reference:

Site Delaware Ranch 11/14 B2DM Fed Com

1H

TVD Reference:

MD Reference:

North Reference:

North Reference:

Survey Calculation Method:

Minimum Curvature

2										ار در
Planned	Surveý 👝 🎺	k[45.5		KRASHUSYAHIK	en en en en en en en en	Haven true et e	14-14 12 12-1	
*		* N. M. M. W.		1 . C. T		X # W	* 7 %	#		
	Measured	THE STATE OF THE S		Vertical	ON THE STATE OF THE	4. 水净地。	Vértical: [1]	Dogleg	Build .	Turn
	Depth? 1	nclination	(Azimuth	Depth	+N/S	+E/-W 53	Section 🗱 🤭	Rate	Rate	Rate
772	(usft) / Cal	F(1)		🖟 (usft) 🚜 🎍	(usft) रेक्ट्रफे	(usft)	(usft)	(°/100úsft) # (°	/100usft) 🕻 🦫 ('/100usft) 🦫 🍀 🐭 🦼
- A	- 194 - 19 - 19 - 19 - 19 - 19 - 19 - 19	90.30	100.55		The second second	Marian Carlotte				333.3- 1 31 32 56 5
	0.008,e 0.000,e	90.30	180.56 180.56	8,186.1 8,185.6	-1,811.8 -1,011.8	-17.8 -18.8	1,811.9	0.00	0.00	0.00
	10,000.0	90.30	180.56	8,185.1	-1,911.8 - 2,011.8	-10.6 -19.8	1,911.9 2,011.9	0,00 0,00	0.00 0.00	0.00 0. 00
	10,100.0	90.30	180.56	8,184.6	-2,111.8	-20.8	2,111.9	0.00	0.00	0.00
				·		-20.6				
	10,200.0	90.30	180.56	8,184.0	-2,211.8	-21.7	. 2,211.9	0.00	0.00	0.00
-	10,300.0	90.30	180.56	8,183.5	-2,311.8	-22.7	2,311.9	0.00	0.00	0.00
	10,400,0	90.30	180.56	8,183.0	-2,411.8	-23.7	2,411.9	0.00	0.00	0.00
	10,500.0	90.30	180.56	8,182.5	-2,511.8	-24.7	2,511.9	0.00	0.00	0.00
	10,600.0	90.30	180.56	8,182.0	-2,611.8	-25.7	2,611:9	0.00	0.00	. 0.00
	10,700.0	90.30	180.56	8,181.4	-2,711.8	-26.7	2,711.9	0.00	0.00	0.00
	10,800,0	90.30	180.56	8,180.9	-2,811.8	-27.6	2,811.9	0.00	0.00	0.00
ŧ	10,900.0	90.30	180.56	8,180.4	-2,911.8	-28.6	2,911.9	0.00	0.00	0.00
1	11,000.0	90.30	180.56	8,179.9	-3,011.8	-29.6	3,011.9	0.00	0.00	0.00
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	11,400.0	90.30	180,56	8,177.8	-3,411.7	-33.5	3,411.9	0.00	0.00	0.00
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	11,700.0	90.30	180,56	8,176.3	-3,711.7	-36.5	3,711.9	0.00	0.00	0.00
•	11,800.0	90,30	180,56	8,175.8	-3,811.7	-37.5	3,811.9	0.00	0.00	0.00
	11,900.0	90.30	180.56	8,175.2	-3,911.7	-38.5	3,911.9	0.00	0.00	0.00
	12,000.0	90.30	180,56	8,174.7	-4,011.7	-39.4	4,011.9	0.00	0.00	0.00
	12,100.0	90,30	180,56	8,174.2	-4,111.7	-40.4	4,111.9	0.00	0.00	0.00
	12,200.0	90,30	180,56	8,173.7	4 244 7	44.4				
	12,200.0	90.30	180.56	8,173.7	-4,211.7 -4,311.7	-41.4 -42.4	4,211.9 4,311.9	0.00 0.00	0.00 0.00	0.00 0.00
	12,400.0	90.30	180.56	8,172.7	-4,411.7	-43.4	4,411.9	0.00	0,00	0,00
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	12,600.0	90.30	180,56	8,171.6	-4,611.7	-45.3	4,611.9	0.00	0.00	0.00
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	12,700.0	90.30	180.56	8,171.1	-4,711.7	-46.3	4,711.9	0.00	0.00	0.00
	12,800.0 12,900.0	90.30 90.30	180,56 180,56	8,170.6 8,170.1	-4,811.7	-47.3 49.3	4,811.9	0.00	0.00	0.00
	13,000.0	90.30	180.56	8,169.5	-4,911.6 -5,011.6	-48.3 -49.3	4,911.9 5,011.9	0,00 0.00	0,00 0,00	0.00 0.00
	13,100.0	90.30	180.56	8,169.0	-5,111.6	-50.3	5,111.9	0.00	0.00	0.00
				•						
	13,200.0	90.30	180.56	8,168.5	-5,211.6	-51.2	5,211.9	0.00	0.00	0.00
	13,300.0	90.30	180.56	8,168.0	-5,311.6	-52.2	5,311.9	0.00	0.00	, 0.00
	13,400.0	90,30 . 90,30	180.56	8,167.5	-5,411.6	-53.2	5,411.9	0.00	0.00	0,00
	13,500.0 13,600.0	90.30	180,56 180,56	8,167.0 8,166.4	5,511.6 -5,611.6	-54.2 -55.2	5,511.9 5,611.9	, 0.00 0.00	0.00 0.00	0.00 0.00
	13,700.0	90.30	180.56	8,165.9	-5,711.6	-56.2	5,711.9	0.00	0.00	0.00
	13,800.0	90.30	180.56	8,165.4	-5,811.6	-57.1	5,811.9	0.00	0.00	0.00
	13,900.0	90.30	180.56	8,164.9	-5,911.6	-58.1	5,911.9	0.00	0.00	0.00 ·
	14,000.0	90.30	180.56	8,164.4	-6,011.6	-59.1	6,011.9	0.00	0.00	0.00
	14,100.0	90.30	180.56	8,163,9	-6,111.6	-60.1	6,111.9	0.00	0.00	0.00
•	14,200.0	90.30	180.56	8,163.3	-6,211.6	-61.1	6,211.9	0.00	0.00	0.00
	14,300.0	90.30	180,56	8,162.8	-6,311.6	-62.0	6,311.9	0.00	0.00	0.00
	14,400.0	90.30	180.56	8,162.3	-6,411.6	-63.0	6,411.9	0.00	0.00	0.00
	14,500.0	90.30	180.56	8,161.8	-6,511.5	-64.0	6,511.9	0.00	0.00	0.00
	14,600.0	90.30	180.56	8,161.3	-6,611.5	-65.0	6,611.9	0.00	0.00	0.00
,	14,700.0	90.30	180.56	8,160,8	-6,711.5	-66.0	6,711.9	0.00	0.00	0.00
	14,800.0	90.30	180 56	8,160.2	-6,811.5	-67,0	6,811.9	0.00	0.00	0.00
	14,900.0	90.30	180.56	8,159.7	-6,911.5	-67.9	6,911.9	0.00	0.00	0.00
	15,000.0	90,30	180.56	8,159.2	-7,011.5	-68.9	7,011.9	0.00	0.00	0.00
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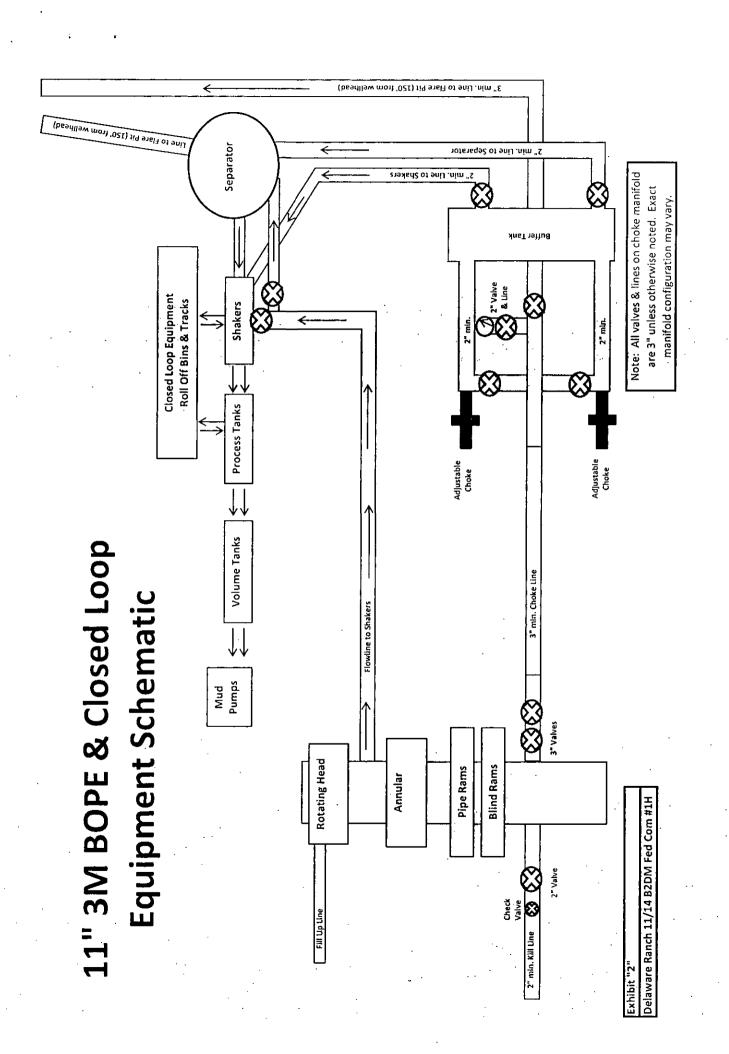
Database: Hobbs Liocal Co-ordinate Reference: Site Delaware Ranch 11/14 B2DM Fed Com
1H
Company: Hobbs TVD Reference: Hobbs North Reference: Site Delaware Ranch 11/14 B2DM Fed Com
1H
WELL @ 2983.0usft (Original Well Elev)
WELL @ 2983.0usft (Original Well Elev)
WELL @ 2983.0usft (Original Well Elev)
Well: Sec. 11 T26S R28E Supplies Survey Calculation Method
Wellibore: BHL 330 FSU 8 545 FWL Sec 145
Design Design #18.50 FSU 8 545 FWL Sec 145

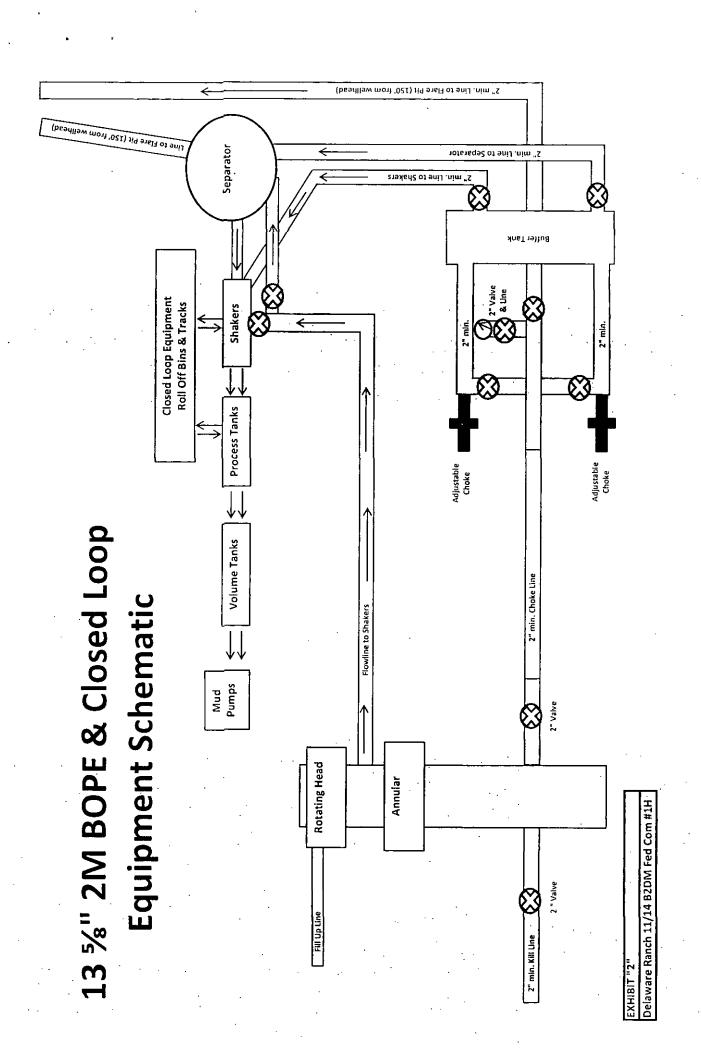
Design #18.

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15,100.0	90.30	180.56	8,158.7	-7,111.5	-69.9	7,111.9	0.00	0.00	0.00
15,200.0	90.30	180.56	8.158.2	-7,211,5	-70,9	7.211.9	0.00	0.00	0.00
15,300.0	90.30	180,56	8,157.6	-7,211.5 -7,311.5	-70,9 -71,9	7,211.9 7,311.8	0.00	0.00	.0.00
15,400.0	90.30	180.56	8,157.1	-7,311.5 -7,411.5	-71,9 -72,9	7,311.8 7,411.8	0.00	0.00	0.00
15,500.0	90.30	180.56	8,156.6	-7,411.5 -7,511.5	-73.8	7,411.8 7,511.8	0.00	0.00	0.00
15,600.0	90.30	180.56	8,156.1	-7,511.5 -7.611.5	-73.8 -74.8	7,511.8 7,611.8	0.00	0.00	0.00
·	90.30	•	•	•		•	0.00	•	0.00
15,700.0	90.30	180.56	8,155.6	-7,711.5	-75.8	7,711.8	0.00	0.00	0.00
15,800.0	90,30	180.56	8,155.1	-7,811.5	-76.8	7,811.8	0.00	0.00	0.00
15,900.0	90.30	180.56	8,154.5	-7,911.5	-77.8	7,911.8	0.00	0.00	0.00
16,000.0	90.30	180.56	8,154.0	-8,011.5	-78.8	8,011.8	0.00	0.00	0.00
16,100.0	90.30	180.56	8,153.5	-8,111.4	-79.7	8,111.8	0.00	0.00	0.00
16,200.0	90,30	180.56	8,153.0	-8,211.4	-80.7	8,211.8	0.00	0.00	0.00
16,300.0	90.30	180.56	8,152.5	-8,311.4	-81.7	8,311.8	0.00	0.00	0.00
16,400.0	90.30	180.56	8,152.0	-8,411.4	-82.7	8,411.8	0.00	0.00	0.00
16,500.0	90.30	180.56	8,151.4	-8,511.4	-83.7	8,511.8	0.00	0.00	0.00
16,600.0	90.30	180.56	8,150.9	-8,611.4	-84.7	8,611.8	0.00	0.00	0.00
16,700.0	90.30	180.56	8,150.4	-8,711.4	-85.6	8,711.8	0.00	0.00	0.00
16,800.0	90.30	180.56	8,149.9	-8,811.4	-86.6	8,811.8	0.00	0.00	0.00
16,900.0	90.30	180.56	8,149.4	-8,911.4	-87.6	8,911.8	0.00	0.00	0.00
17,000.0	90.30	180.56	8,148.8	-9,011.4	-88.6	9,011.8	0.00	0.00	0.00
17,100.0	90.30	180,56	8,148,3	-9,111.4	-89.6	9,111.8	0.00	0.00	0.00
17,200.0	90.30	180.56	8,147.8	-9,211.4	-90.6	9,211.8	0.00	0.00	0.00
17,300.0	90.30	180,56	8,147.3	-9,311.4	-915	9,311 8	0.00	0.00	0.00
17,400.0	90.30	180.56	8,146.8	-9,411.4	-92.5	9,411.8	0.00	0.00	0.00
17,500.0	90,30	180.56	8,146,3	-9,511.4	-93.5	9,511.8	0.00	0.00	0.00
17,600,0	90.30	180.56	8,145.7	-9,611.4	-94.5	9,611.8	0.00	0.00	0,00
17,700.0	90,30	180.56	8,145.2	-9,711.3	-95.5	9,711.8	0.00	0.00	0.00
17,800,0	90.30	180.56	8,144.7	-9,811.3	-96.5	9,811.8	0,00	0.00	0.00
17,900.0	90.30	180.56	8,144.2	-9,911.3	-97.4	9,911.8	0,00	0.00	0.00
18,000,0	90.30	180.56	8,143.7	-10,011.3	-98.4	10,011.8	0,00	0.00	0.00
18,100.0	90,30	180.56	8,143.2	-10,111.3	-99.4	10,111.8	0.00	0.00	0.00
18,130.2	90.30	180.56	8,143.0	-10,141.5	-99.7	10,142.0	0.00	0.00	0.00
BHL: 330 FSL &	SAS FINESCO	TARREST CONTROL	क्षानाक्ष्मित्रम्	*** **** **	1.32	* . ****		•	• •

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Database:	Hobbs	Local Co-ordinate Reference:	Site Delaware Ranch 11/14 B2DM Fed Com
S. 1. C. 188		of the state of th	្ត៍ 1H
Company: 🚿	Mewbourne Oil Company	TVD Reference:	WELL @ 2983.0usft (Original Well Elev)
Project:	್ಯ ಫ್ಲ್ ೈ Eddy County, New Mexico	MD Reference: 32	WELL @ 2983.0usft (Original Well Elev) .
Site:	Delaware Ranch 11/14 B2DM Fed Com 1H	North Reference:	Grid
Wéll 🗓 🖫	Sec. 11 T26S, R28E (1) 2010 1211	ந்து இurvey Calculation Method: 🥠	Minimum Curvature : A Strict Control of the Control
Wellbore:	330 FSL & 545 FWL, Sec 14		
Design:	Design #1 ness 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	minimize to a figure of the contraction of the cont	

Design Targets 1	MIRCONIA		gay ja jir j	774.					
Target Name hit/miss targets Dip Shape	Angle Y. Di	and the	u.TVD (usft)v	+N/-S (usft)	E/-W (usft)	Northing (usft)	Easting.	Latitude	Longitude
SL: 185 FNL & 545 FWL - plan hits target center - Point	0.00	0.00	0.0	0,0	0.0	387,049.80	583,396.40	32° 3' 49.785 N	104° 3' 50.839 W
KOP @ 7716 - plan hits target center - Point	0.00	0.00	7,715.5	0.0	- 0.0	387,049.80	583,396.40	32° 3' 49,785 N	104° 3′ 50.839 W
First Take Point: 330 FN - plan misses target center - Point	0.00 r by 1.2usft a	0.00 at 8099.3	8,060.0 usft MD (80	-145.2 59.3 TVD, -146.	-1.2 1 N, -1.4 E)	386,904.60	583,395.20	32* 3' 48.348 N	104° 3' 50.857 W
BHL: 330 FSL & 545 FV - plan hits target center - Point	0.00	0.00	8,143.0	-10,141.5	-99.7	376,908.30	583,296.70	32° 2' 9.422 N	104° 3′ 52.291 W
LP: 665 FNL & 545' FWL - plan hits target center - Point	0.00	0.01	8,193.0	-480,0	-4.7	386,569.80	583,391.70	32° 3' 45,035 N	104° 3′ 50.907 W



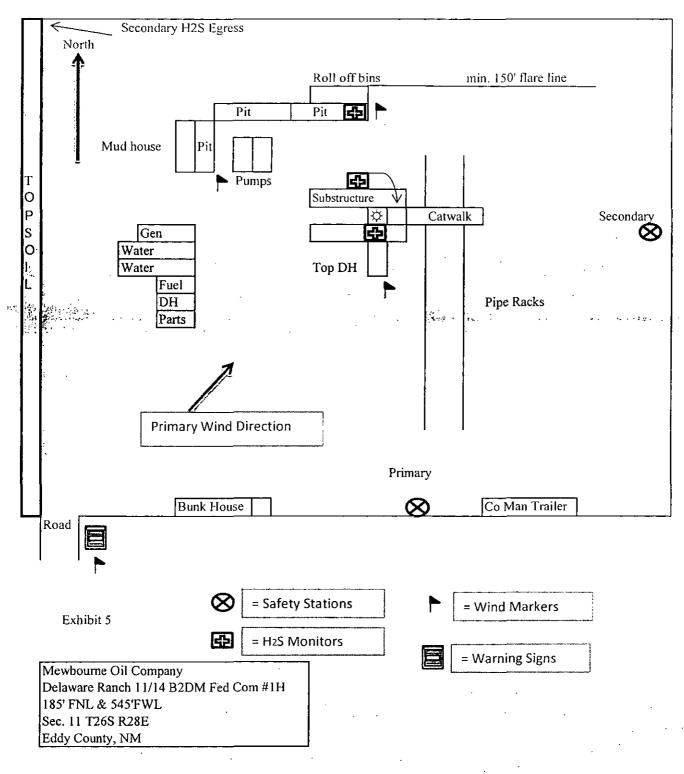


Notes Regarding Blowout Preventer Mewbourne Oil Company

Delaware Ranch 11/14 B2DM Fed Com #1H 185' FNL & 545' FWL (SHL) Sec 11-T26S-R28E Eddy County, New Mexico

- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 3000 psi working pressure on 9 5/8" and 7" casing.
- 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.



Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Delaware Ranch 11/14 B2SM Fed Com #1H 185' FNL & 545' FWL (SL) Sec 11-T26S-R28E

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.
- 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 9-5/8" 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 Delaware Ranch 11/14 B2DM Fed 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. Visual Warning Systems

- 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

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.

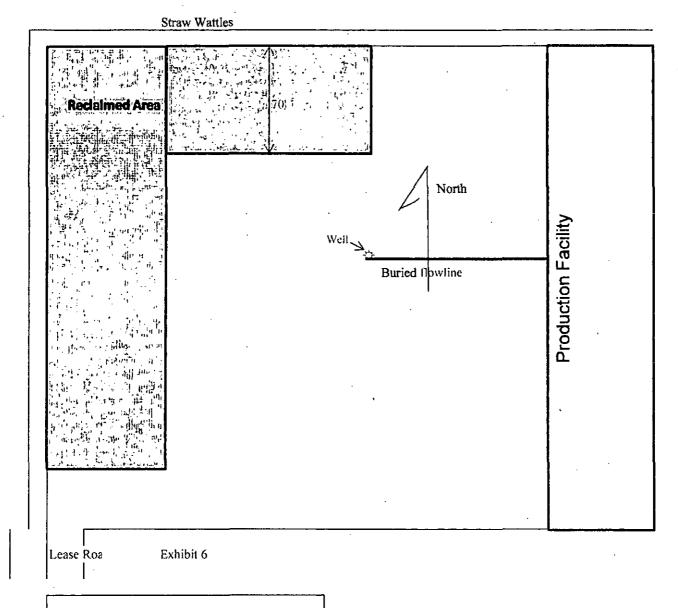
7. Well Testing

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	Robin Terrell	575-390-4816
Drilling Superintendent	Frosty Lathan	575-390-4103
_	Bradley Bishop	575-390-6838
Drilling Foreman	Wesley Noseff	575-441-0729



Mewbourne Oil Company
Delaware Ranch 11/14 B2DM Fed Com #1H
185' FNL & 545' FWL
Sec. 11 T26S R28E
Eddy Co. NM

Replacement Pages

SURFACE USE PLAN OF OPERATIONS MEWBOURNE OIL COMPANY Delaware Ranch 11/14 B2DM Fed Com #1H

SURFACE USE PLAN OF OPERATIONS MEWBOURNE OIL COMPANY

Delaware Ranch 11/14 B2DM Fed Com #1H 185 FNL & 545' FEL (SHL) Sec. 11 – T26S-R28E Eddy County, New Mexico

Introduction

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. The existing access road route to the proposed project is depicted on **Exhibit 3E**. Improvements to the driving surface will be done where necessary. No new surface disturbance will be done, unless otherwise noted in the New or Reconstructed Access Roads section of this surface use plan.
- b. The existing oil and gas roads utilized to access the proposed project will be maintained by crowning, clearing ditches, and fixing potholes. All existing structures on the entire access route such as cattleguards, other range improvement projects, culverts, etc. will be properly repaired or replaced if they are damaged or have deteriorated beyond practical use.
- c. Mewbourne Oil Co. will cooperate with other operators in the maintenance of lease roads, it is anticipated that MOC will blade & water the lease roads 3 times per year.

2. New or Reconstructed Access Roads

- a. An access road will be needed for this proposed project. See the survey plat(s) for the location of the access road.
- b. The length of access road needed to be constructed for this proposed project is about 921.78 feet.
- c. The access road will be 14 feet wide and will be constructed with 6 inches of compacted caliche. A 25 foot wide area would be needed to construct the road.
- d. When the road travels on fairly level ground, the road will be crowned and ditched with a 2% slope from the tip of the road crown to the edge of the driving surface. The ditches will be 3 feet wide with 3:1 slopes.
- e. The access road will be constructed with a ditch on each side of the road.
- f. The maximum grade for the access road will be 5 percent.
- g. If the road is longer than 1,000 feet, turnouts will be constructed with an interval of 1,000 feet. Turnouts will be intervisible and will be 10 feet wide and 100 feet long.
- h. Low water crossings will be constructed where drainages cross the access road.

- i. Construction of new or reconstructed roads, on surface under the jurisdiction of the Bureau of Land Management will include ditching, draining, crowning and capping or sloping and dipping the roadbed as necessary to provide a well-drained and safe road.
- j. An appropriately sized cattle guard will be installed where the proposed access road crosses a fence line.
- k. A BLM right-of-way grant is needed for the construction of this access road and one will be acquired prior to construction.
- 1. Lead-off ditches will be constructed for the proposed access road, but will not extend more than 15 feet outside the road edge.

3. Location of Existing Wells

a. Exhibit 4, 4A of the APD depicts all known wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities

- a. All permanent, lasting more than 6 months, above ground structures including but not limited to pumpjacks, storage tanks, pipeline risers, meter housing, etc. that are not subject to safety requirements will be painted a non-reflective paint color that blends in with the surrounding landscape. The paint color will be one of the colors from the BLM Standard Environmental Colors chart selected by the BLM authorized officer.
- ,b. All proposed production facilities that are located on the well pad will be strategically placed to allow for maximum interim reclamation, recontouring, and revegetation of the well location.
- c. Production from the proposed well will be on the East side of location
- d. If any plans change regarding the production facility or other infrastructure (pipeline, electric line, etc.), we will submit a sundry notice or right of way (if applicable) prior to installation of construction.
- e. An electric line will be applied for through a sundry notice or BLM right of way at a later date.

5. Location and Types of Water

a. 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 identified above in this surface use plan. Water from the commercial suppliers will be supplied from the Brantley water station located in SE/SW of Sec 12 T26S R28E, Eddy Co.

6. Construction Materials

- a. Construction material that will be used to build the well pad and road will be caliche.
- b. The construction contractor will be solely responsible for securing construction materials required for this operation and paying any royalties that may be required on those materials.
- c. Obtaining caliche: One way of obtaining caliche to build locations and roads will be by "turning over" the location. This means, caliche will be obtained from the actual well site. A caliche permit will be obtained from BLM prior to obtaining caliche. Amount of caliche will vary for each pad. The procedure below has been approved by BLM personnel:
 - i. The top 6 inches of topsoil is pushed off and stockpiled along the side of the location.
 - ii. An approximate 160' X 160' area is used within the proposed well site to remove caliche.
 - iii. Subsoil is removed and stockpiled within the surveyed well pad.
 - iv. When caliche is found, material will be stock piled within the pad site to build the location and road.
 - v. Then subsoil is pushed back in the hole and caliche is spread accordingly across entire location and road.
 - vi. Once well is drilled, the stock piled top soil will be used for interim reclamation and spread along areas where caliche is picked up and the location size is reduced.
 - vii. Neither caliche, nor subsoil will be stock piled outside of the well pad.

 Topsoil will be stockpiled along the edge of the pad as depicted in the

 Well Site Layout or survey plat.

In the event that no caliche is found onsite, caliche will be hauled in from a BLM, state, or private mineral pit. A BLM mineral material permit will be acquired prior to obtaining any mineral material from BLM pits or land.

Caliche for this well pad will be hauled from either a private pit in Sec. 23 T26S T28E. Straw wattles will be installed the straw wattles on the north & west sides of the well pad to prevent topsoil & caliche from migrating off site.

Construction will consist of using the following equipment: Dozer, grader/blade, backhoe, roller, water trucks & dump trucks. Dozer will level the location stockpiling topsoil on the specified edge of the location. Dump trucks will haul material to location. Dozer & Blade will spread material evenly across location. Location will be leveled & rolled with blade & roller. Backhoe will be used to

install the 8' x 10' cellar. Average timeline for the construction of locations will be 10-14 days after APD approval.

7. Methods of Handling Waste

- a. The well will be drilled utilizing a closed loop system. Drill cuttings will be properly contained in steel tanks (20 yard roll off bins.) and taken to an NMOCD approved disposal facility listed below.
- b. Drilling fluids and produced oil and water from the well during completion operations will be stored safely in closed containers (20 yard roll off bins) and disposed of properly in an NMOCD approved disposal facility listed below.
- c. Garbage and trash produced during drilling and completion operations will be collected in trash containers (enclosed trash trailers) and disposed of properly at a state approved site. All trash on and around the well site will be collected for disposal.
- d. All human waste and grey water from drilling and completion operations will be properly contained in a 2,000 gallon plastic container and disposed of properly at the City of Carlsbad Water Treatment facility.
- e. After drilling and completion operations, trash, chemicals, salts, frac sand and other waste material will be removed and disposed of properly at the said facilities.
- f. NMOCD approved waste disposal locations are CRI or Lea Land, both facilities are located on HWY 62/180, Sec. 27 T20S R32E.
- g. SWD candidates are: Delaware Ranch SWD #1, San Lorenzo SWD #1, Fuller SWD #1 & TXL West 11 SWD #1. The water will be trucked using existing lease roads to one of these facilities.

8. Ancillary Facilities

a. No ancillary facilities will be needed for this proposed project.

9. Well Site Layout

- a. The proposed drilling pad to be built was staked and surveyed by a professional surveyor. The attached survey plat of the well site depicts the drilling pad layout as staked.
- b. A title of a well site diagram is Exhibit 5. This diagram depicts the rig layout.
- c. In areas to be heavily disturbed, the top 6 inches of soil material, will be stripped and stockpiled on the perimeter of the well location to keep topsoil viable, and to make redistribution of topsoil more efficient during interim reclamation. Stockpiled topsoil should include vegetative material. Topsoil will be clearly segregated and stored separately from subsoils. Contaminated soil will not be stockpiled, but properly treated and handled prior to topsoil salvaging.

- ii. All surfacing material will be removed and returned to the original mineral pit or recycled to repair or build roads and well pads.
- iii. All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Topsoil that was spread over the interim reclamation areas will be stockpiled prior to recontouring. The topsoil will be redistributed evenly over the entire disturbed site to ensure successful revegetation.
- iv. After all the disturbed areas have been properly prepared, the areas will be seeded with the proper BLM seed mixture, free of noxious weeds. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.
- v. Proper erosion control methods will be used on the entire area to control erosion, runoff and siltation of the surrounding area.
- vi. All unused equipment and structures including pipelines, electric line poles, tanks, etc. that serviced the well will be removed.
- vii. All reclaimed areas will be monitored periodically to ensure that revegetation occurs, that the area is not redisturbed, and that erosion and invasive/noxious weeds are controlled.

11. Surface Ownership

a. The surface ownership of the proposed project is private and federal.

Surface Owner: Delaware Ranch, Inc. (George & Draper Brantley)

Phone Number: 575-887-9240

Address: 1304 W. Riverside, Carlsbad, NM 88220

- a. A surface use agreement was obtained from the private surface owner regarding the proposed project.
- b. A good faith effort was made to provide a copy of the APD Surface Use Plan of Operations to the private surface owner.

12. Other Information

a. No other information is needed at this time.

13. Operator's Representative

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

Robin Terrell, District Manager

Mewbourne Oil Company

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
NMNM-107374
WELL NAME & NO.:
Delaware Ranch 11 14 B2DM Fed Com 1H
0185' FNL & 0545' FEL
BOTTOM HOLE FOOTAGE:
LOCATION:
COUNTY:
Wewbourne Oil Company
NMNM-107374
Delaware Ranch 11 14 B2DM Fed Com 1H
0185' FNL & 0660' FEL
0330' FSL & 0660' FWL Sec. 14, T. 26 S., R 28 E.
Section 11, T. 26 S., R 28 E., NMPM
COUNTY:
Eddy County, New Mexico

TABLE OF CONTENTS

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, Paleontology, and Historical Sites
☐ Noxious Weeds
Special Requirements
Communitization Agreement
Cave/Karst
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
Road Section Diagram
□ Drilling
Cement Requirements
Medium Cave/Karst
Logging Requirements
Waste Material and Fluids
☐ Production (Post Drilling)
Well Structures & Facilities
☐ Interim Reclamation
Final Abandonment & 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)

Pasture Fence

The fence 15' north of the north edge of the pad will be avoided during construction. If the fence is damaged, construction will halt until the fence has been repaired.

Communitization Agreement

A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales. In addition, the well sign shall include the surface and bottom hole lease numbers. If the Communitization Agreement number is known, it shall also be on the sign. If not, it shall be placed on the sign when the sign is replaced.

Cave and Karst

** Depending on location, additional Drilling, Casing, and Cementing procedures may be required by engineering to protect critical karst groundwater recharge areas.

Cave/Karst Surface Mitigation

The following stipulations will be applied to minimize impacts during construction, drilling and production.

Construction:

In the advent that any underground voids are opened up during construction activities, construction activities will be halted and the BLM will be notified immediately.

No Blasting:

No blasting will be utilized for pad construction. The pad will be constructed and leveled by adding the necessary fill and caliche.

Tank Battery Liners and Berms:

Tank battery locations and all facilities will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank.

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.

Automatic Shut-off Systems:

Automatic shut off, check values, or similar systems will be installed for pipelines and tanks to minimize the effects of catastrophic line failures used in production or drilling.

Cave/Karst Subsurface Mitigation

The following stipulations will be applied to protect cave/karst and ground water concerns:

Rotary Drilling with Fresh Water:

Fresh water will be used as a circulating medium in zones where caves or karst features are expected. SEE ALSO: Drilling COAs for this well.

Directional Drilling:

Kick off for directional drilling will occur at least 100 feet below the bottom of the cave occurrence zone. SEE ALSO: Drilling COAs for this well.

Lost Circulation:

ALL lost circulation zones from the surface to the base of the cave occurrence zone will be logged and reported in the drilling report.

Regardless of the type of drilling machinery used, if a void of four feet or more and circulation losses greater than 70 percent occur simultaneously while drilling in any cavebearing zone, the BLM will be notified immediately by the operator. The BLM will assess the situation and work with the operator on corrective actions to resolve the problem.

Abandonment Cementing:

Upon well abandonment in high cave karst areas additional plugging conditions of approval may be required. The BLM will assess the situation and work with the operator to ensure proper plugging of the wellbore.

Pressure Testing:

Annual pressure monitoring will be performed by the operator on all casing annuli and reported in a sundry notice. If the test results indicated a casing failure has occurred, remedial action will be undertaken to correct the problem to the BLM's approval.

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

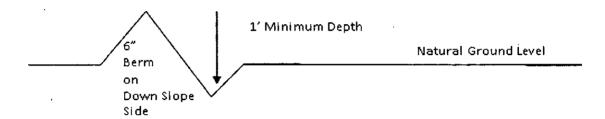
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

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.

Construction Steps

- 1. Salvage topsoil
- 3. Redistribute topsoil
- 2. Construct road -
- 4. Revegetate slopes

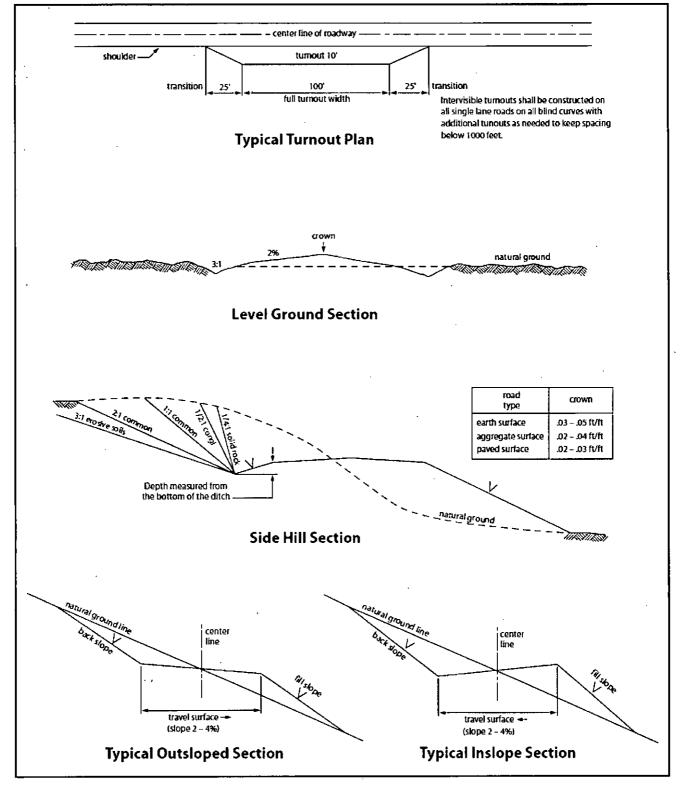


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

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. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, 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 or are Non-API. 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.). The initial wellhead installed on the well will remain on the well with spools used as needed.

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

Wait on cement (WOC) for Water Basin:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. 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.

Medium Cave/Karst

Possibility of water flows in the Salado and Castile.

Possibility of lost circulation in the Red Beds, Rustler, and Delaware.

- 1. The 13-3/8 inch surface casing shall be set at approximately 200 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 cave/karst. Excess calculates to 20% Additional cement may be required.

If cement does not circulate to surface on the intermediate casing, the cement on the production casing must come to surface.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 3. The minimum required fill of cement behind the 7 X 5-1/2 inch production casing is:

 ☐ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification. Excess calculates to 23% Additional cement may be required.
- 4. 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 53.
- 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 a water basin, 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. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - 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 (8 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.

JAM 070615

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).

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).

Seed Mixture 1 for Loamy Sites

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 no primary or secondary noxious weeds in the seed mixture. Seed shall 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 shall be either certified or registered seed. The seed container shall be tagged in accordance with State law(s) and available for inspection by the Authorized Officer.

Seed shall be planted using a drill equipped with a depth regulator to ensure proper depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture shall be evenly and uniformly planted over the disturbed area (small/heavier seeds have a tendency to drop the bottom of the drill and are planted first). Holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed shall be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre shall be doubled. The seeding shall be repeated until a satisfactory stand is established as determined by the Authorized Officer. Evaluation of growth may 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 lovegrass (Eragrostis intermedia)	0.5
Sand dropseed (Sporobolus cryptandrus)	1.0
Sideoats grama (Bouteloua curtipendula)	5.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

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

NMOCD CONDITION OF APPROVAL

The New! Gas Capture Plan (GCP) notice is posted on the NMOCD website under Announcements. The Plan became effective May 1, 2016. A copy of the GCP form is included with the NOTICE and is also in our FORMS section under Unnumbered Forms. Please review filing dates for all applicable activities currently approved or pending and submit accordingly. Failure to file a GCP may jeopardize the operator's ability to obtain C-129 approval to flare gas after the initial 60-day completion period.