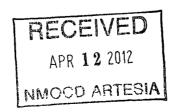
OCD-ARTESIA

Form 3160-3 FORM APPROVED OMB No 1004-0137 Expires Judy 31, 2010 EA 477 (August 2007) UNITED STATES 5. Lease Serial No. DEPARTMENT OF THE INTERIOR SL: NM-28097 & BHL: NM-27279 BUREAU OF LAND MANAGEMENT 6. If Indian, Allotee or Tribe Name APPLICATION FOR PERMIT TO DRILL OR REENTER 7 If Unit or CA Agreement, Name and No. DRILL REENTER la. Type of work: 8. Lease Name and Well No. Gas Well Oil Well Single Zone Multiple Zone Bradley "30" Fed Com #3H lb. Type of Well. Name of Operator Mewbourne Oil Company 9 API Well No. 3a Address PO Box 5270 3b Phone No. (include ai (575) 390-6838 Hobbs, NM 88240 Santo Nino Bone Spring (54600) 11. Sec., T. R. M. or Blk. and Survey or Area Location of Well (Report location clearly and in accordance with any State requirements *) At surface 1830' FNL & 150' FWL (Lot 2) Sec 30, T18S, R30E UNORTHODOX At proposed prod. zone 1700' FNL & 330' FEL (Unit H) **LOCATION** 12 County or Parish 13 State 14 Distance in miles and direction from nearest town or post office NM Eddy 24 miles NE of Carlsbad, NM Distance from proposed* 16 No. of acres in lease 17 Spacing Unit dedicated to this well location to nearest 158.34 NM 28097 - 1076.65 property or lease line, ft (Also to nearest drig, unit line, if any) NM 27279 - 175/.53 20 BLM/BIA Bond No. on file 19. Proposed Depth 18 Distance from proposed location* 280' north of the to nearest well, drilling, completed, Santo Nino 30 #2 12677' MD NM1693, Nationwide applied for, on this lease, ft 8179' TVD 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3455' GL 04/01/2012 42 days 24. Attachments The following, completed in accordance with the requirements of Onshore Oil and Gas Order No 1, must be attached to this form 1. Well plat certified by a registered surveyor. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above) 2. A Drilling Plan. 3 A Surface Use Plan (if the location is on National Forest System Lands, the Operator certification SUPO must be filed with the appropriate Forest Service Office). Such other site specific information and/or plans as may be required by the 25 Signature Name (Printed/Typed) Date **Brett Bednarz** 01/09/2012 Title Petroleum Engineer Name (Printed/Typed) Approved by (Signature) /s/ Don Peterson /s/ Don Peterson APR 1 0 2012 Office Title CARLSBAD 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)

Capitan Controlled Water Basin



Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

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 9th day of Jan, 2012.

Name: NM Young

Position Title: Hobbs District Manager

Address: PO Box 5270, Hobbs NM 88241

Telephone: 575-393-5905

E-mail: myoung@mewbourne.com

State OI New Mexico

Energy, Minerals and Natural Resources Department Revised July 16, 2010 Submit one copy to appropriate 1301 W. Grand Avenue, Artesia, NM 88210 District Office APR 1 2011 CONSERVATION DIVISION DISTRICT III 1220 South St. Francis Dr. 1000 Rio Brazos Rd., Aztec, NM 87410 NMOCD ARTESIA Santa Fe, New Mexico 87505 DISTRICT IV 1220 S. St. Francis Dr., Santa Pe. NM 87505 □ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 54600 Santo Bone Spring "30" FEDERAL COM 3HBRADLEY OGRID No Operator Name Elevation 3455' 14744 MEWBOURNE OIL COMPANY Surface Location UL or lot No. Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line County Lot Z 30 18 S 30 F 1830 NORTH 150 WEST **FDDY** Bottom Hole Location If Different From Surface Section Feet from the North/South line East/West line UL or lot No. Township Lot Idn Feet from the County Range 30 330 H 185 30E 1700 North East ヒムムレ Dedicated Acres Joint or Infill | Consolidation Code Order No. 158.34 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION OPERATOR CERTIFICATION

I hereby certify that the information
contained herein is true and complete to
the best of my knowledge and belief, and that
this organization either owns a working
interest or unleased mineral interest in the
land including the proposed bottom hole
location or has a right to drill this well at
this location pursuant to a contract with an
owner of such a mineral or working interest,
or to a voluntary pooling agreement or a
compulsory pooling order heretofore entered by
the division. 3460.6 330 SURFACE LOCATION Brett BHL Long - W 104'01'07.29" ISL Printed Name NMSPCE- N 626032.665 E 596767.148 (NAD-27) Email Address NM 27279 NM 028097 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my Project supervison, and that the same is true and correct to the best of my belief. Date St Signal Profes Certificate No. 7977 23142 BASIN SURVEYS

DISTRICT I

Form C-102

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

Bradley "30" Fed Com #3H 1830' FNL & 150' FWL (SHL) Sec 30-T18S-R30E Eddy County, New Mexico

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

Rustler	275'
Top Salt	380'
Base Salt	1120'
Yates	1300'
Seven Rivers	1525'
*Queen	2350'
San Andres	3200'
*Delaware	3580'
*Bone Springs	4040'

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

Water Fresh water is anticipated @ 150' and will be protected by setting surface

casing at 300' 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 7" & 9 %" 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. BOPE 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 7" & 9 %" BOPE to 3000# and the Annular to 1500# with a third party testing company before drilling below each shoe, but will test again, if needed, in 30 days from the 1st test as per BLM Onshore Oil and Gas Order #2.

4. MOC proposes to drill a vertical wellbore to 7659' & kick off to horizontal @ 8136' TVD. The well will be drilled to 12677' MD (8179' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing	A. Casing Program:									
Hole Size	Casing	Wt/Ft.	<u>Grade</u>	Depth	Jt Type					
17 ½"	13 ¾" (new)	48#	H40	0'-300'	ST&C					
12 1/4"	9 %" (new)	36#	J55	0'-1400'	LT&C					
0.3711	711 ()	00#	D440	01 70 COL MED	1.700					
8 3/4"	7" (new)	26#	P110	0'-7659' MD	LT&C					
8 3/4"	7" (new)	26#	P110	7659'-8404' MD	BT&C					
6 1/8"	4 ½" (new) 'x	11.6# "···	P110	8204'-12677' MD	LT&C					

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

B. Cementing Program:

- i. <u>Surface Casing</u>: 315 sks Class "C" cement w/ 2% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface w/100% excess.
- ii <u>Intermediate Casing:</u> 200 sks Class "C" (35:65:4) light cement w/ salt & LCM additives. Yield @ 2.16 cuft/sk. 200 sacks Class "C" cement w/2% CaCl2. Yield at 1.34 cuft/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 600 sacks Class "H" (35:65:4) light cement w/ salt, FL & LCM additives. Yield @ 2.11 cuft/sk. 400 sacks Class "H" cement w/ salt & FL additives. Yield @ 1.19 cuft/sk. Cmt circulated to surface w/25% excess.
- iv. <u>Production Liner</u>: This will be a Packer/Port completion from TD up inside 7" casing with packer type liner hanger.

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

6. Mud Program:

<u>Interval</u>	Type S	ystem	Weight	Viscosity	Fluid Loss
0' -	300'	FW spud mud	8.6-9.0	32-34	NA
300' -	1400'	Brine water	10.0-10.	.2 28-30	NA
1400' -	7659' (KOP)	Cut Brine	8.5-8.7	28-30	NA
7659' -	TD	Cut Brine w/pol	ymer 8.5-8.7	32-35	15

7. Evaluation Program: See CoA

Samples: 10' samples from surface casing to TD

Logging GR & Gyro from KOP -100' (7559') to surface. GR from 7559' 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: 120 degree F

Maximum bottom hole pressure: 8 3 lbs/gal gradient or less

9. Anticipated Starting Date:

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 10 days involved in completion operations on the project.

Mewbourne Oil Co

Eddy County, New Mexico Sec 30, T18S, R30E Bradley 30 Fed Com #3H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

06 January, 2012



Well Planning Report



Database: Company Project: EDM 5000.1 Single User Db Mewbourne Oil Co Eddy County, New Mexico Site: Sec 30, T18S, R30E Bradley 30 Fed Com #3H

Wellbore: Wellbore #1 Design #1

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

Well Bradley 30 Fed Com #3H WELL @ 3473.0usft (Patterson 45/47/46) WELL @ 3473.0usft (Patterson 45/47/46) Grid

Minimum Curvature

Project -Eddy County, New Mexico

Map System:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: Map Zone:

New Mexico East 3001

System Datum:

Mean Sea Level

Site # Sec 30, T18S, R30E

Site Position:

Northing:

622.986.86 usft

32° 42' 44.110 N

From:

Lat/Long

Easting: 0 0 usft

601,612.61 usft

Longitude:

104° 0' 10.680 W

Position Uncertainty:

Slot Radius:

13-3/16"

Grid Convergence:

0.18°

Bradley 30 Fed Com #3H +N/-S

+E/-W

Well Position

3,045.8 usft -4,845.5 usft Northing: Easting:

626,032.67 usft 596,767.15 usft Latitude: Longitude: 32° 43' 14.396 N 104° 1' 7.287 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

3,455.0 usft

Wellbore Wellbore #1

Magnetics Model Name Sample Date

Declination

Field Strength

IGRF2010

1/4/2012

60.56

48.810

Audit Notes:

Version:

Phase:

Tie On Depth:

0.0

Vertical Section:

PLAN

Direction

Depth From (TVD) (usft) 0.0

+N/-S (üsft) 00

(usft) 0.0

88.39

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Well Planning Report



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

EDM 5000.1 Single User Db Mewbourne Oil Co Eddy County, New Mexico Sec 30, T18S, R30E Bradley 30 Fed Com #3H

Wellbore #1 Design #1 Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Bradley 30 Fed Com #3H
WELL @ 3473.0usft (Patterson 45/47/46)
WELL @ 3473.0usft (Patterson 45/47/46)
Grid

Minimum Curvature

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Well Planning Report



Database: Gompany: Project: Site: Well: Wellbore: Design:

EDM 5000.1 Single User Db Mewbourne Oil Co Eddy County, New Mexico Sec 30, T18S, R30E Bradley 30 Fed Com #3H

Wellbore #1 Design #1 Local Co-ordinate Reference: TVD Reference: MD/Reference: North Reference: Survey:Calculation Method: Well Bradley 30 Fed Com #3H
WELL @ 3473:0usft (Patterson 45/47/46)
WELL @ 3473 Ousft (Patterson 45/47/46)
Grid

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Minimum	Curvature

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6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
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7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0 00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0 0	0.0	0.00	0 00	0.00
7,300.0	0 00	0.00	7,300.0	0.0	0.0	0.0	0 00	0 00	0.00
7,400.0	0.00	0.00	7,400 0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0 00	0 00	7,500.0	0 0	0 0	0 0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0 00	0.00	0.00
7,658.6	0.00 7659' MD	0.00	7,658.6	0.0	0.0	0.0	0.00	0 00	0.00
7,700.0	4.97	88 39	7,699.9	0.0	1.8	1.8	12.00	12.00	0.00
7,800.0	16.97	88.39	7,797.9	0.6	20 8	20.8	12 00	12.00	0 00
7,900.0	28.97	88.39	7,889.8	1.7	59.7	59.7	12.00	12 00	0 00
8,000 0	40 97	88.39	7,971.6	3.3	116.9	116.9	12 00	12 00	0.00
8,100.0	52.97	88 39	8,039 8	5.3	189.8	189.9	12.00	12.00	0.00
8,200 0	64.97	88.39	8,091.2	77	275.3	275.4	12.00	12.00	0.00
8,300 0	76 97	88.39	8,123.8	10.4	369.7	369 8	12.00	12 00	0 00
8,400.0	88.97	88.39	8,136.0	13 1	468.7	468.9	12 00	12 00	0.00
EOB @ 8404 8,403.8	' MD /' <mark>89.42° In</mark> 89.42	ic / 88.39° Az 88.39	zm / 8136° IVD 8.136.0	13.2	472.5	472.7	12 00	12 00	0.00
8,500 0	89 42	88.39	8,137.0	15.2	568.6	568.9	0 00	0.00	0.00
8,600 0	89.42	88.39	8,138 0	18.7	668.6	668.9	0 00	0.00	0.00
8,700.0	89.42	88.39	8,139.0	21.5	768.5	768.8	0.00	0 00	0 00
8,800 0	89.42	88.39	8,140 0	24 3	868.5	868.8	0.00	0.00	0 00
8,900.0	89 42	88 39	8,141.0	27.1	968.5	968.8	0.00	0 00	0.00
9,000.0	89 42	88.39	8,142.0	29 9	1,068.4	1,068 8	0.00	0.00	0.00
9,100 0 9,200 0	89.42	88.39	8,143 0	32.7	1,168.4	1,168 8	0.00	0.00	0.00
	89.42	88.39	8,144.0	35.5	1,268.3	1,268.8	0.00	0 00	0.00
9,300.0	89.42	88.39	8,145 0	38.3	1,368.3	1,368 8	0.00	0.00	0 00
9,400.0 9,500.0	89.42 89.42	88 39 88.39	8,146.1 8,147.1	41.1 43 9	1,468.2 1,568 2	1,468.8 1,568.8	0.00 0.00	0 00 0.00	0.00
9,600.0	89.42	88.39	8,147.1 8,148.1	46.7	1,668.1	1,668 8	0.00	0.00	0.00
9,700 0	89.42	88 39	8,149.1	49.5	1,768.1	1,768.8	0.00	0.00	0 00
9,800.0	89 42	88.39	8,150 1	52 3	1,868.1	1,868.8	0 00	0.00	0.00
9,900.0	89.42	88.39	8,151.1	55.1	1,968 0	1,968.8	0.00	0.00	0.00
10,000.0	89.42	88 39	8,152.1	57.9	2,068.0	2,068 8	0 00	0 00	0.00
10,100.0	89.42	88 39	8,153.1	60.7	2,167.9	2,168.8	0 00	0.00	0 00
10,200 0	89 42	88 39	8,154 1	63.5	2,267.9	2,268.8	0 00	0.00	0.00

Well Planning Report



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

EDM 5000.1 Single User Db Local Co-ordinate Reference:

Mewbourne Oil Co TVD/Reference: Eddy County, New Mexico

Sec 30, T18S, R30E Bradley 30 Fed Com #3H Wellbore #1

Design #1

MD:Reference:

Survey Calculation Method:

Well Bradley 30 Fed Com #3H

WELL @ 3473.0usft (Patterson 45/47/46)

WELL @ 3473.0usft (Patterson 45/47/46) Grid

Minimum Curvature

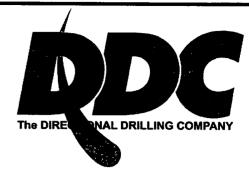
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						4.0			
Measured			Vertical			Vertical 🗸	Dogleg :	Build	Turn
Depth-	Inclination	Azimuth	▼Depth : *	+N/-S	+E/-W	Section	Rate	Rate	/Rate
(usft)	(2)	(°)	(usft)	(usft)	(usft)				(°/100usft)
		100		(usit)	, usit				
10,300.0	89.42	88.39	8,155.1	66.4	2,367.8	2,368.8	0.00	0.00	0 00
10,400.0	89.42	88.39	8,156.1	69.2	2,467.8	2,468.8	0.00	0.00	0.00
10,500.0	89.42	88.39	8,157 1	72 0	2,567.8	2,568.8	0.00	0.00	0.00
10,600.0	89 42	88.39	8,158.1	74.8	2,667.7	2,668.8	0.00	0.00	0.00
10,700.0	89.42	88.39	8,159.1	77.6	2,767.7	2,768.7	0.00	0.00	0.00
10,700.0	03.42	00.59	0,109.1	77.0	2,707.7	2,700.7	0.00	0.00	0.00
10,800.0	89.42	88.39	8,160.1	80.4	2,867.6	2,868.7	0.00	0.00	0.00
10,900.0	89.42	88.39	8,161.1	83 2	2,967.6	2,968.7	0.00	0.00	0 00
11,000.0	89.42	88.39	8,162.1	86.0	3,067.5	3,068.7	0.00	0.00	0.00
11,100.0	89 42	88 39	8,163.1	88.8	3,167.5	3,168.7	0.00	0.00	0.00
11,200.0	89.42	88.39	8,164.1	91.6	3,267.4	3,268 7	0.00	0.00	0.00
•			•		•	•			
11,300 0	89 42	88.39	8,165 2	94.4	3,367.4	3,368.7	0.00	0.00	0 00
11,400.0	89.42	88.39	8,166.2	97 2	3,467.4	3,468.7	0.00	0 00	0.00
11,500.0	89.42	88 39	8,167.2	100.0	3,567.3	3,568.7	0.00	0 00	0.00
11,600.0	89.42	88.39	8,168.2	102.8	3,667.3	3,668.7	0.00	0.00	0.00
11,700.0	89.42	88.39	8,169.2	105.6	3,767.2	3,768.7	0.00	0.00	0.00
11,800.0	89 42	88 39	8,170 2	108.4	3,867.2	3,868.7	0.00	0.00	0.00
11,900.0	89.42	88.39	8,170.2 8,171.2	111.2	3,667.2 3,967.1	3,968.7	0.00	0.00	0.00
12,000.0	89.42								
		88.39	8,172.2	114.0	4,067.1	4,068.7	0.00	0 00	0 00
12,100.0	89.42	88.39	8,173.2	116.8	4,167.0	4,168.7	0.00	0 00	0.00
12,200 0	89.42	88.39	8,174 2	119.6	4,267.0	4,268.7	0.00	0 00	0 00
12,300.0	89.42	88.39	8.175.2	122 4	4.367.0	4.368.7	0 00	0.00	0 00
12,400.0	89 42	88.39	8,176.2	125.2	4,466 9	4,468 7	0.00	0.00	0 00
12,500 0	89.42	88.39	8,177.2	128.0	4,566.9	4,568 7	0.00	0.00	0 00
12,600 0	89.42	88 39	8,178 2	130.8	4.666.8	4.668.7	0.00	0.00	0.00
12,677 3	89.42	88 39	8,179.0	132.9	4.744.1	4,745.9	0.00	0.00	0.00
12,077 3	03.72	00 33	0,179.0	132 3	~, / ~~. I	4,740.0	0.00	0.00	0.00

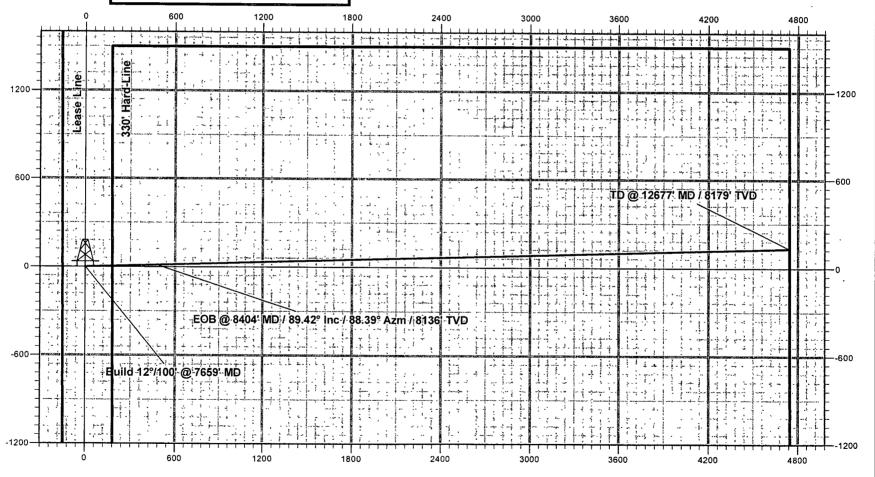
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Tarnet Name									
- hit/miss target ⊸Dip	Angle D	ip Dir.	TVD	+N/-S	+E/-W	Northing	Easting		
: Shape	(°)	(%):	(usft):	_(usft)	(usft)	(usft)	(usft).	Latitude	Longitude
PBHL Bradley 30 Fed	0.00	0.00	8,179 0	132.9	4,744 1	626,165.60	601,511.20	32° 43' 15 568 N	104° 0' 11 751 W

HL Bradley 30 Fed - plan hits target center - Point

2,6 9,0	Plan Annotations				
37.00	THE RESIDENCE OF THE PROPERTY OF THE PARTY O	AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY AND THE PROPERTY OF THE PROPE	Local Coordi	NAME OF THE PARTY	
200 A. S.	Depth: (usft)	Depth (usft)	+N/-S (usft)	+E/IW (usft)	Comment
22	7.050.0	7.050.0			
	7,658.6	.,	0.0	0.0	Build 12°/100' @ 7659' MD
Ų	8,403 8	8,136 0	13 2	472.5	EOB @ 8404' MD / 89.42° Inc / 88.39° Azm / 8136' TVD
	12,677 3	8,179 0	132.9	4,744.1	TD @ 12677' MD / 8179' TVD

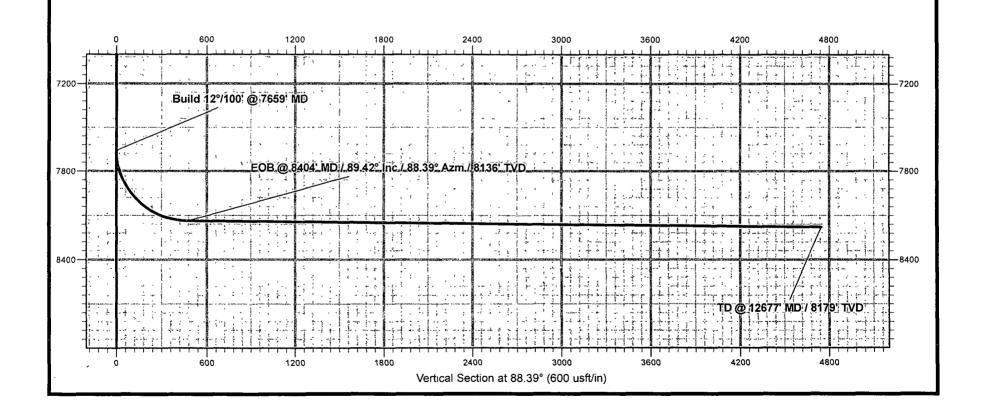
Eddy County, New Mexico
Bradley 30 Fed Com #3H
Quote 120011





Eddy County, New Mexico Bradley 30 Fed Com #3H Quote 120011





BOP Schematic for 12 1/4" Hole

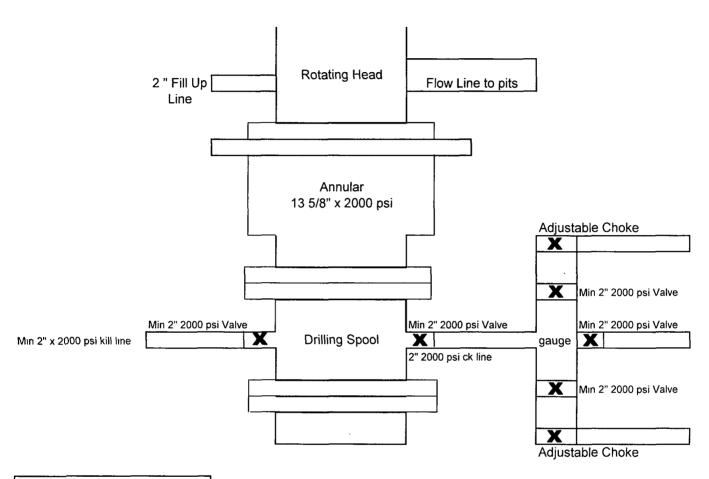


Exhibit #2

Bradely "30" Fed Com #3H 1830' FNL & 150' FWL Sec 30-T18S-R30E Eddy, County New Mexico

BOP Schematic for 8 3/4" & 6 1/8" Hole

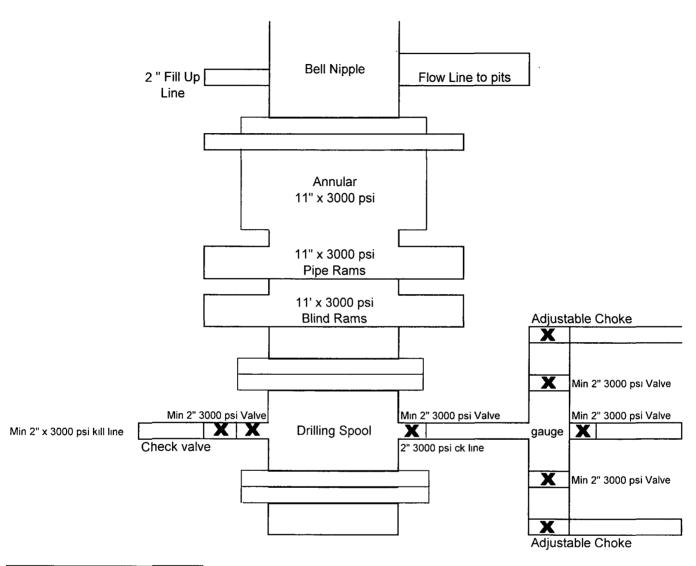


Exhibit #2

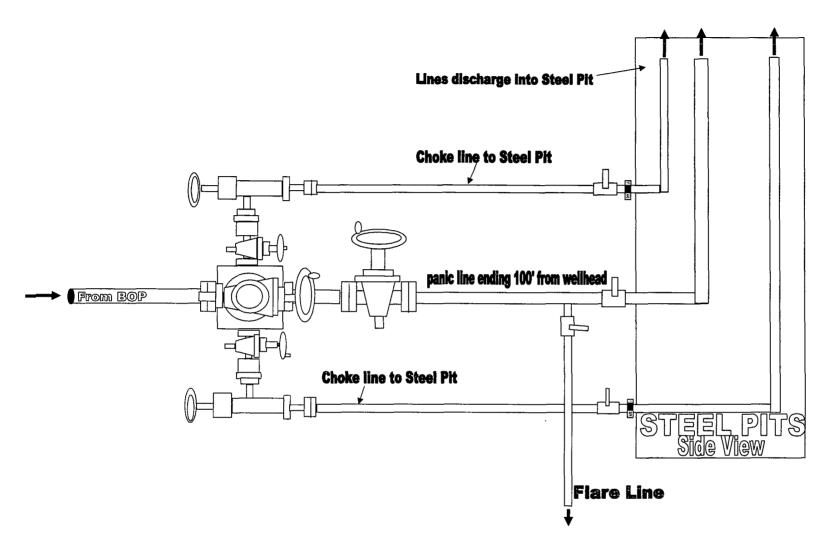
Bradely "30" Fed Com #3H 1830' FNL & 150' FWL Sec 30-T18S-R30E Eddy, County New Mexico

Notes Regarding Blowout Preventer Mewbourne Oil Company

Bradley "30" Fed Com #3H 1830' FNL & 150' FWL (SHL) Sec 30-T18S-R30E Eddy County, New Mexico

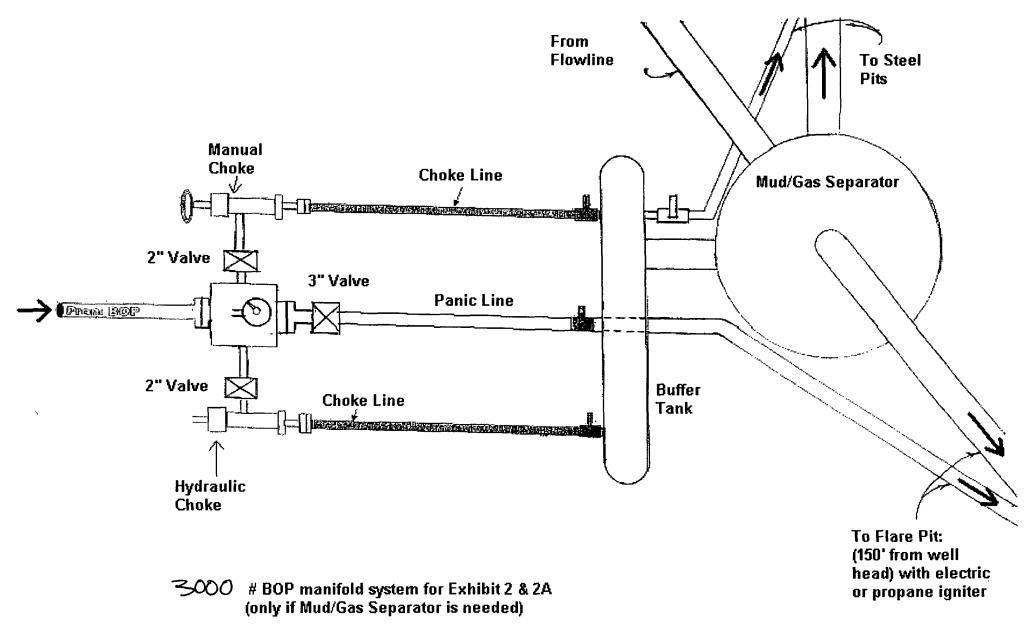
- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi working pressure on 13 3/8" casing and 3000 psi working pressure on 9 5/8" & 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.



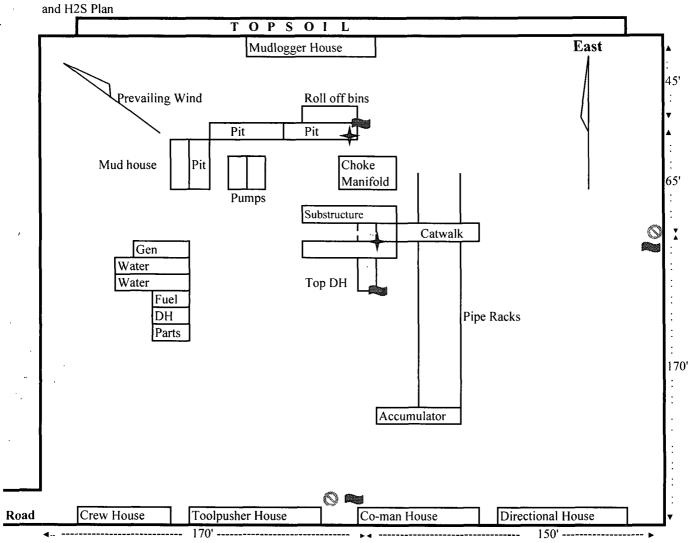
3000# BOP manifold system for Exhibit 2 & 2A

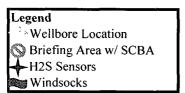
Bradley 30 Fed Com #3H



Bradley 30 Fed Com #3H

Closed Loop Pad Dimensions 280' x 320'





Mewbourne Oil Company Bradley "30" Fed Com #3H 1830' FNL & 150' FWL Sec 30-T18S-R30E Eddy County, NM

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Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company

Bradley "30" Fed Com #3H 1830' FNL & 150' FWL Sec 30-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 Yates 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 intermediate casing.

1. Well Control Equipment

- A. Choke manifold with minimum of one adjustable 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 and a rotating head, mud/gas separator, and flare line with igniter will be installed.

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 wellsite 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

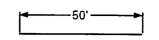
Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

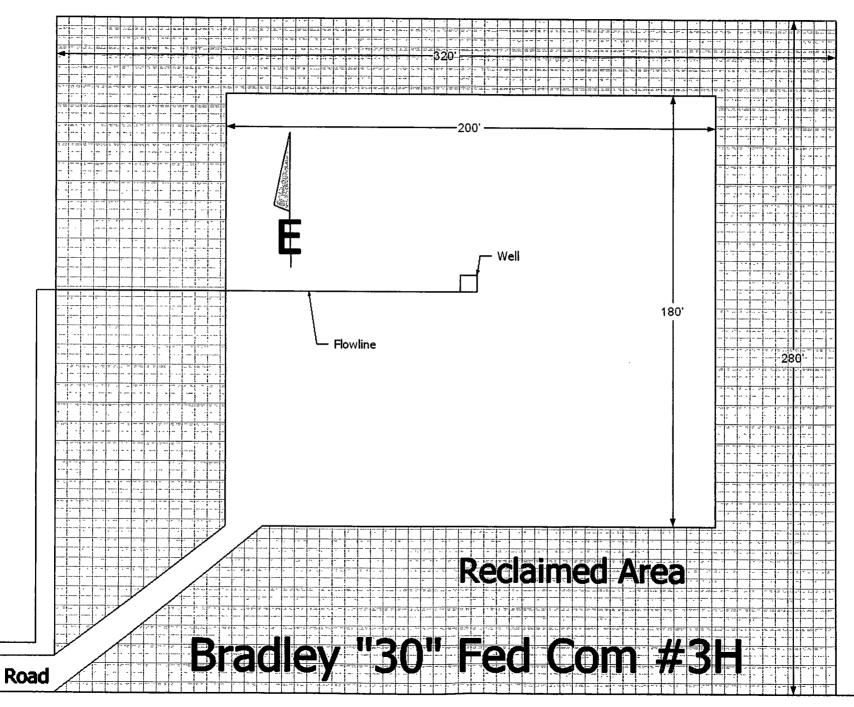
8. Emergency Phone Numbers

Eddy County Sheriff's Office	911 or 575-887-7551
Ambulance Service	911 or 575-885-2111
Artesia Fire Dept	911 or 575-616-7155
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility – Artesia General Hospital	575-748-3333

Mewbourne Oil Company	Hobbs District Office Fax 2 nd Fax	575-393-5905 575-397-6252 575-393-7259
District Manager Drilling Superintendent Drilling Foreman Engineer	Micky Young Frosty Lathan Wesley Noseff Brett Bednarz	575-390-0999 575-390-4103 575-441-0729 575-390-6838

Exhibit 6





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:
LEASE NO.:
WELL NAME & NO.:
SURFACE HOLE FOOTAGE:
BOTTOM HOLE FOOTAGE
LOCATION:
COUNTY:
MEWBOURNE OIL COMPANY
NM27279
3H BRADLEY 10 30 FEDERAL COM
1830' FNL & 150' FWL
1700' FNL & 330' FEL
Section 10, T.18 S., R.30 E., NMPM
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
Lesser Prairie-Chicken Timing Stipulations
Ground-level Abandoned Well Marker
Communitization Agreement
☐ Construction
Notification
Topsoil
Closed Loop System
Federal Mineral Material Pits
Well Pads
Roads
☐ Road Section Diagram
☑ Drilling
H ₂ S – Onshore Order #6
Waste Material and Fluids
Logging Requirements
☐ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
☐ Interim Reclamation
Final Ahandonment & 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)

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

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, 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 feet 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.

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.

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) 234-6235 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 stockpile the topsoil in a low profile manner in order to prevent wind/water erosion of the topsoil. The topsoil to be stripped is approximately 4 inches in depth. The topsoil will be used 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. 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 (20) 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

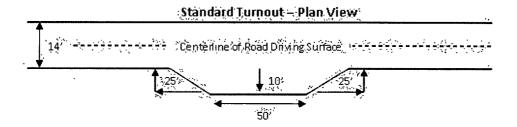
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

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 be constructed on all blind curves. Turnouts shall conform to the following diagram:

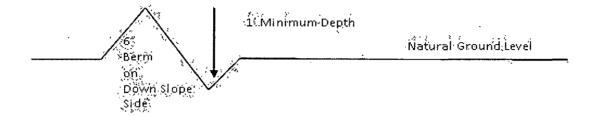


Drainage

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

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road 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 cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

Where entry is required 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 fence(s).

Public Access

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

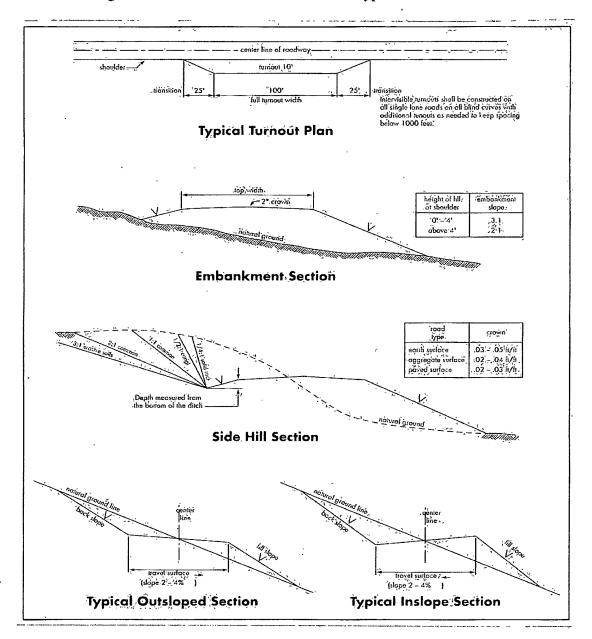


Figure 1 - Cross Sections and Plans For Typical Road Sections

VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

⊠ Eddy County

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

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Bone Springs 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. 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.

Possible brine flows in the Salado and Artesia groups. Possible lost circulation in the Artesia group.

- 1. The 13-3/8 inch surface casing shall be set at approximately 300 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - 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.

- 3. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- 4. The minimum required fill of cement behind the 4-1/2 inch production liner is:
 - ☐ Cement not required Port/Packer system to be 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 inch 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 (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 results of the test shall be reported to the appropriate BLM office.
- d. 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.
- e. 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.

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.

CRW 040912

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.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

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, Munsell Soil Color Chart # 5Y 4/2

a. PIPELINES – Deferred. Operator is not certain of routes as shown in their APD. Per conversation with operator rep on 1-27-12. RR

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

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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
Four-winged Saltbush	5lbs/A

^{*}Pounds of pure live seed:

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