

SECRETARY'S POTASH

OCD-ARTESIA

ATS-11-764

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No 1004-0137
Expires July 31, 20105. Lease Serial No. **BHL**
NM-033775 NM-27278 LC-058186

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.

Ursa "27" Fed Com #4H [38899]

9. API Well No.

30-015-39582

10. Field and Pool, or Exploratory

Santo Nino B.S. [54660]

11. Sec., T. R. M. or Blk. and Survey or Area
Sec 27, T18S, R30E12. County or Parish
Eddy13. State
NM1a. Type of work. ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator Mewbourne Oil Company

3a. Address PO Box 5270
Hobbs, NM 558240332413b. Phone No. (include area code)
[14744]
575-393-5905

4. Location of Well (Report location clearly and in accordance with any State requirements)

At surface 855' FNL & 70' FWL (Unit D)

At proposed prod. zone 660' FNL & 330' FEL (Unit A)

UNORTHODOX
LOCATION14. Distance in miles and direction from nearest town or post office*
25 miles NE of Carlsbad, NM15. Distance from proposed*
location to nearest
property or lease line, ft. 70'
(Also to nearest drig. unit line, if any)16. No. of acres in lease
8017. Spacing Unit dedicated to this well
16018. Distance from proposed location*
to nearest well, drilling, completed,
applied for, on this lease, ft. 520'19. Proposed Depth
12997' MD
8358' TVD20. BLM/BIA Bond No. on file
NM1693, Nationwide21. Elevations (Show whether DF, KDB, RT, GL, etc.)
3440' GL22. Approximate date work will start*
11/11/201123. Estimated duration
40 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.

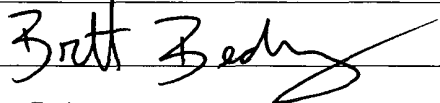
2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the
SUPO must be filed with the appropriate Forest Service Office)4. Bond to cover the operations unless covered by an existing bond on file (see
Item 20 above).

5. Operator certification

6. Such other site specific information and/or plans as may be required by the
BLM

25. Signature

Name (Printed/Typed)
Brett BednarzDate
08/10/2011

Title

Petroleum Engineer

Approved by (Signature)

Name (Printed/Typed)

Date

Title

STATE DIRECTOR

Office

NM STATE OFFICE

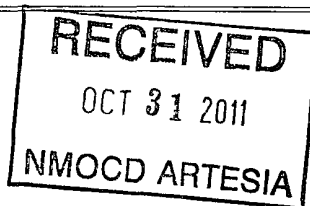
Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to
conduct operations thereon.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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

(Continued on page 2)

*(Instructions on page 2)



Capitan Controlled Water Basin

SEE ATTACHED FOR
CONDITIONS OF APPROVALApproval Subject to General Requirements
& Special Stipulations Attached

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 16, 2010

Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-37582	Pool Code 54600	Pool Name Santo Nino; Bone Spring
Property Code 37920 38899	Property Name URSA "27" FEDERAL COM	Well Number 4H
OGRID No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3440'

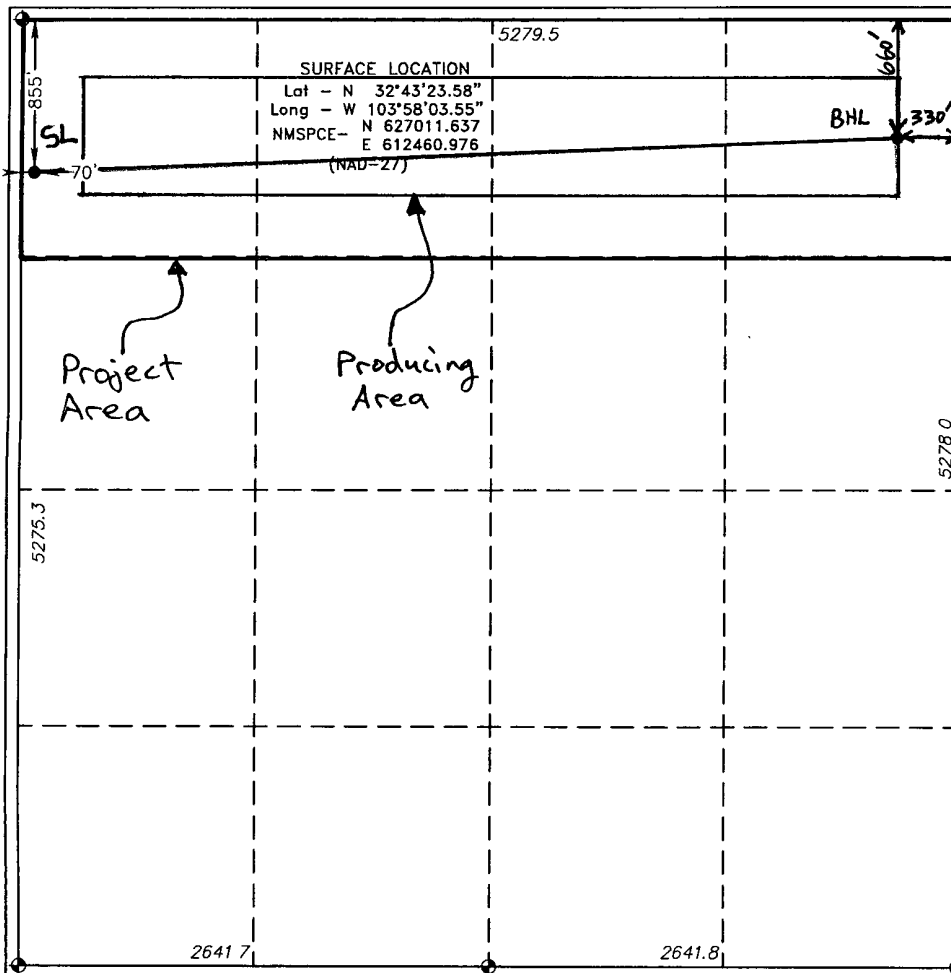
Surface Location

UL or lot No. D	Section 27	Township 18 S	Range 30 E	Lot Idn	Feet from the 855	North/South line NORTH	Feet from the 70	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

UL or lot No. A	Section 27	Township 18 S	Range 30 E	Lot Idn	Feet from the 660	North/South line North	Feet from the 330	East/West line East	County Eddy
Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.						

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

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.

Brett Bednarz
Signature Date
Brett Bednarz
Printed Name
Email Address

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 supervision, and that the same is true and correct to the best of my belief.

GARY L. JONES
Date Surveyed
Signature & Seal of Professional Surveyor
Professional Surveyor No. 24790

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 24790

Drilling Program
Mewbourne Oil Company
 Ursa "27" Federal Com #4H
 855' FNL & 70' FWL (SHL)
 Sec 27-T18S-R30E
 Eddy County, New Mexico

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

Rustler	460'
Top Salt	525'
Base Salt	950'
*Yates	1565'
*Queen	2720'
*Delaware	4320'
*Bone Springs	5220'

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

Water	Fresh water is anticipated @ 235' and will be protected by setting surface casing at 485' and cementing to surface.
Hydrocarbons	Oil and gas are anticipated in the above (*) formations. These zones will be protected by casing as necessary.

3. Pressure control equipment:

A 2000# WP Annular will be installed after running 13 3/8" casing. A 3000# WP Double Ram BOP and 3000# WP Annular will be installed after running 9 5/8" & 7" casing. Pressure tests will be conducted prior to drilling out under all casing strings. BOP controls will be installed prior to drilling under surface casing and will remain in use until completion of drilling operations. BOP's will be inspected and operated as recommended in Onshore Order #2. A Kelly cock and a sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position when the Kelly is not in use.
 Will test the 7" 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 7840' & kick off to horizontal @ 8318' TVD. The well will be drilled to 12997' MD (8358' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casing Program:

<u>Hole Size</u>	<u>Casing</u>	<u>Wt/Ft.</u>	<u>Grade</u>	<u>Depth</u>	<u>Jt Type</u>
See COA 17 1/2"	13 3/8" (new)	48#	H40	0'-485' 370	ST&C
12 1/4"	9 5/8" (new)	36#	J55	0'-1665' 1525	ST&C
8 3/4"	7" (new)	26#	P110	0'-7840' MD	LT&C
8 3/4"	7" (new)	26#	P110	7840'-8586' MD	BT&C
6 1/8"	4 1/2" (new)	11.6#	P110	8386'-12997' MD	LT&C

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

See
COA *Subject to availability of casing.

B. Cementing Program:

- i. Surface Casing: 500 sks Class "C" cement w/2% CaCl. Yield at 1.34 cuft/sk. Cmt circulated to surface w/100% excess.
- ii. Intermediate Casing: 200 sacks Class "C" (35:65:4) light cement w/ salt & LCM additives. Yield @ 2.12 cuft/sk. 200 sacks Class "C" cement w/2% CaCl₂. Yield at 1.18 cuft/sk. Cmt circulated to surface w/25% excess.
- iii. Production Casing: 530 sacks Class "H" (35:65:4) light cement w/ salt & LCM additives. Yield @ 2.12 cuft/sk. 400 sacks Class "H" cement. Yield @ 1.18 cuft/sk. Cmt circulated to surface w/25% excess.
- iv. Production Liner: 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:

Interval	Type System	Weight	Viscosity	Fluid Loss
0' - 485' ³⁷⁰	FW spud mud	8.6-9.0	32-34	NA
485' - 1665' ¹⁵²⁵	Brine water	10.0-10.2	28-30	NA
1665' - 7840' (KOP)	FW	8.5-8.7	28-30	NA
7840' - TD	FW w/Polymer	8.5-8.7	32-35	15

7. Evaluation Program: *see COT*

Samples: 10' samples from surface casing to TD
Logging: GR & Gyro from KOP -100' (7740') to surface. GR from 7740' 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

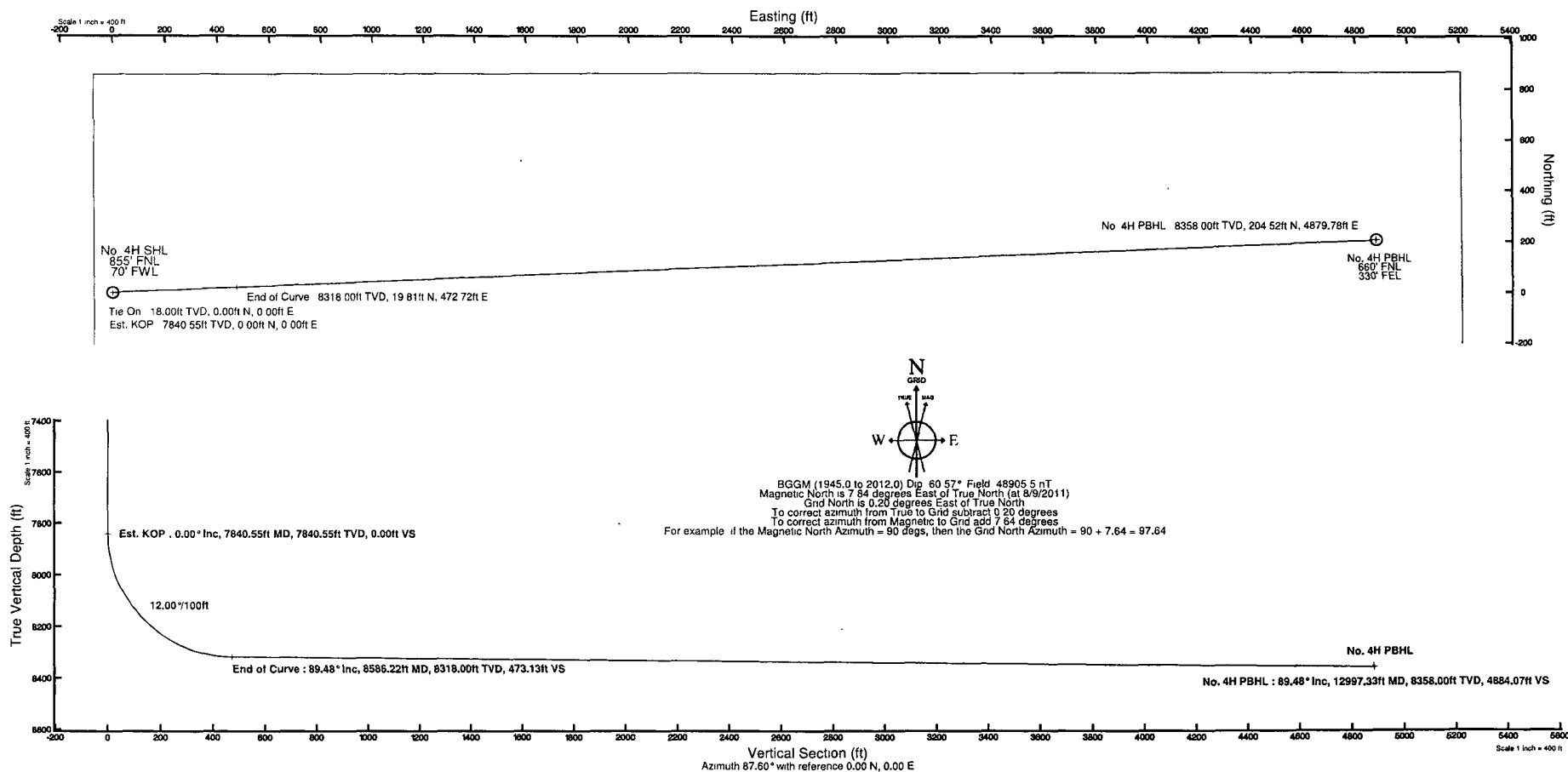
9. Anticipated Starting Date:

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.

Well Profile Data

Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	18.00	0.000	87.600	18.00	0.00	0.00	0.00	0.00
Est. KOP	7840.55	0.000	87.600	7840.55	0.00	0.00	0.00	0.00
End of Curve	8586.22	89.480	87.600	8318.00	19.81	472.72	12.00	473.13
No. 4H PBHL	12997.33	89.480	87.600	8358.00	204.52	4879.78	0.00	4884.07

Plot reference wellpath is Prelim 1	
True vertical depths are referenced to Rig on No. 4H SHL (KB)	Grid System: NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 4H SHL (KB)	North Reference: Grid north
Rig on No. 4H SHL (KB) to Mean Sea Level: 3458 feet	Scale: True distance
Mean Sea Level to Mud line (At Slot No. 4H SHL): 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by: calphuk on 8/10/2011





Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Ursa) Sec27, T18S, R30E	Wellbore	No. 4H PWB
Facility	Ursa 27 Fed Com		

REPORT SETUP INFORMATION			
Projection System	NAD27 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Calhphik
Scale	0.999924	Report Generated	8/10/2011 at 10:40:21 AM
Convergence at slot	0.20° East	Database/Source file	WA_Midland/No. 4H_PWB.xml

WELLPATH LOCATION						
	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	4273.52	-167.20	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W
Facility Reference Pt			612627.99	622738.41	32°42'41.293"N	103°58'01.763"W
Field Reference Pt			612627.99	622738.41	32°42'41.293"N	103°58'01.763"W

WELLPATH DATUM			
Calculation method	Minimum curvature	Rig on No. 4H SHL (KB) to GL	3458.00ft
Horizontal Reference Pt	Slot	Rig on No. 4H SHL (KB) to Mean Sea Level	3458.00ft
Vertical Reference Pt	Rig on No. 4H SHL (KB)	Rig on No. 4H SHL (KB) to Mud Line at Slot (No. 4H SHL)	3458.00ft
MD Reference Pt	Rig on No. 4H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	87.60°

 Mewbourne Oil Company

Planned Wellpath Report

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Field	(Ursa) Sec27, T18S, R30E	Wellbore	No. 4H PWB
Facility	Ursa 27 Fed Com		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]
0.00†	0.000	87.600	0.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
18.00	0.000	87.600	18.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
118.00†	0.000	87.600	118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
218.00†	0.000	87.600	218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
318.00†	0.000	87.600	318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
418.00†	0.000	87.600	418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
518.00†	0.000	87.600	518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
618.00†	0.000	87.600	618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
718.00†	0.000	87.600	718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
818.00†	0.000	87.600	818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
918.00†	0.000	87.600	918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1018.00†	0.000	87.600	1018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1118.00†	0.000	87.600	1118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1218.00†	0.000	87.600	1218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1318.00†	0.000	87.600	1318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1418.00†	0.000	87.600	1418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1518.00†	0.000	87.600	1518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1618.00†	0.000	87.600	1618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1718.00†	0.000	87.600	1718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1818.00†	0.000	87.600	1818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
1918.00†	0.000	87.600	1918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2018.00†	0.000	87.600	2018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2118.00†	0.000	87.600	2118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2218.00†	0.000	87.600	2218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2318.00†	0.000	87.600	2318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2418.00†	0.000	87.600	2418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2518.00†	0.000	87.600	2518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2618.00†	0.000	87.600	2618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2718.00†	0.000	87.600	2718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2818.00†	0.000	87.600	2818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
2918.00†	0.000	87.600	2918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3018.00†	0.000	87.600	3018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3118.00†	0.000	87.600	3118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3218.00†	0.000	87.600	3218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3318.00†	0.000	87.600	3318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3418.00†	0.000	87.600	3418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3518.00†	0.000	87.600	3518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3618.00†	0.000	87.600	3618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3718.00†	0.000	87.600	3718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3818.00†	0.000	87.600	3818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
3918.00†	0.000	87.600	3918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4018.00†	0.000	87.600	4018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4118.00†	0.000	87.600	4118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4218.00†	0.000	87.600	4218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4318.00†	0.000	87.600	4318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00

8/10/2011



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Ursa) Sec27, T18S, R30E	Wellbore	No. 4H PWB
Facility	Ursa 27 Fed Com		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]
4418.00†	0.000	87.600	4418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4518.00†	0.000	87.600	4518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4618.00†	0.000	87.600	4618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4718.00†	0.000	87.600	4718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4818.00†	0.000	87.600	4818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
4918.00†	0.000	87.600	4918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5018.00†	0.000	87.600	5018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5118.00†	0.000	87.600	5118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5218.00†	0.000	87.600	5218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5318.00†	0.000	87.600	5318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5418.00†	0.000	87.600	5418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5518.00†	0.000	87.600	5518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5618.00†	0.000	87.600	5618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5718.00†	0.000	87.600	5718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5818.00†	0.000	87.600	5818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
5918.00†	0.000	87.600	5918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6018.00†	0.000	87.600	6018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6118.00†	0.000	87.600	6118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6218.00†	0.000	87.600	6218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6318.00†	0.000	87.600	6318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6418.00†	0.000	87.600	6418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6518.00†	0.000	87.600	6518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6618.00†	0.000	87.600	6618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6718.00†	0.000	87.600	6718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6818.00†	0.000	87.600	6818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
6918.00†	0.000	87.600	6918.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7018.00†	0.000	87.600	7018.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7118.00†	0.000	87.600	7118.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7218.00†	0.000	87.600	7218.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7318.00†	0.000	87.600	7318.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7418.00†	0.000	87.600	7418.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7518.00†	0.000	87.600	7518.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7618.00†	0.000	87.600	7618.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7718.00†	0.000	87.600	7718.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7818.00†	0.000	87.600	7818.00	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7840.55	0.000	87.600	7840.55	0.00	0.00	0.00	612460.80	627011.60	32°43'23.584"N	103°58'03.547"W	0.00
7918.00†	9.294	87.600	7917.66	6.27	0.26	6.26	612467.06	627011.86	32°43'23.586"N	103°58'03.474"W	12.00
8018.00†	21.294	87.600	8013.94	32.60	1.36	32.57	612493.37	627012.96	32°43'23.596"N	103°58'03.166"W	12.00
8118.00†	33.294	87.600	8102.65	78.37	3.28	78.30	612539.09	627014.88	32°43'23.614"N	103°58'02.631"W	12.00
8218.00†	45.294	87.600	8179.90	141.58	5.93	141.46	612602.25	627017.53	32°43'23.638"N	103°58'01.891"W	12.00
8318.00†	57.294	87.600	8242.31	219.48	9.19	219.28	612680.07	627020.79	32°43'23.668"N	103°58'00.980"W	12.00
8418.00†	69.294	87.600	8287.17	308.65	12.92	308.38	612769.15	627024.52	32°43'23.701"N	103°57'59.937"W	12.00
8518.00†	81.294	87.600	8312.51	405.19	16.97	404.84	612865.61	627028.57	32°43'23.738"N	103°57'58.808"W	12.00
8586.22	89.480	87.600	8318.00	473.13	19.81	472.72	612933.48	627031.41	32°43'23.764"N	103°57'58.014"W	12.00
8618.00†	89.480	87.600	8318.28	504.91	21.14	504.47	612965.23	627032.74	32°43'23.776"N	103°57'57.642"W	0.00

Mewbourne Oil Company

Planned Wellpath Report

Prelim_1
Page 4 of 4

REFERENCE WELLPATH IDENTIFICATION

Operator	Mewbourne Oil Company	Slot	No. 4H SHL
Area	Eddy County, NM	Well	No. 4H
Field	(Ursa) Sec27, T18S, R30E	Wellbore	No. 4H PWB
Facility	Ursa 27 Fed Com		

WELLPATH DATA (134 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]
8718.00†	89.480	87.600	8319.19	604.91	25.33	604.38	613065.13	627036.93	32°43'23.814"N	103°57'56.472"W	0.00
8818.00†	89.480	87.600	8320.10	704.91	29.52	704.29	613165.03	627041.11	32°43'23.852"N	103°57'55.303"W	0.00
8918.00†	89.480	87.600	8321.00	804.90	33.70	804.20	613264.93	627045.30	32°43'23.890"N	103°57'54.133"W	0.00
9018.00†	89.480	87.600	8321.91	904.90	37.89	904.10	613364.83	627049.49	32°43'23.928"N	103°57'52.964"W	0.00
9118.00†	89.480	87.600	8322.82	1004.89	42.08	1004.01	613464.73	627053.68	32°43'23.966"N	103°57'51.794"W	0.00
9218.00†	89.480	87.600	8323.72	1104.89	46.27	1103.92	613564.63	627057.86	32°43'24.004"N	103°57'50.624"W	0.00
9318.00†	89.480	87.600	8324.63	1204.88	50.45	1203.83	613664.53	627062.05	32°43'24.042"N	103°57'49.455"W	0.00
9418.00†	89.480	87.600	8325.54	1304.88	54.64	1303.74	613764.43	627066.24	32°43'24.080"N	103°57'48.285"W	0.00
9518.00†	89.480	87.600	8326.45	1404.88	58.83	1403.64	613864.33	627070.42	32°43'24.118"N	103°57'47.116"W	0.00
9618.00†	89.480	87.600	8327.35	1504.87	63.02	1503.55	613964.23	627074.61	32°43'24.156"N	103°57'45.946"W	0.00
9718.00†	89.480	87.600	8328.26	1604.87	67.20	1603.46	614064.13	627078.80	32°43'24.194"N	103°57'44.777"W	0.00
9818.00†	89.480	87.600	8329.17	1704.86	71.39	1703.37	614164.04	627082.98	32°43'24.232"N	103°57'43.607"W	0.00
9918.00†	89.480	87.600	8330.07	1804.86	75.58	1803.28	614263.94	627087.17	32°43'24.270"N	103°57'42.437"W	0.00
10018.00†	89.480	87.600	8330.98	1904.86	79.76	1903.19	614363.84	627091.36	32°43'24.308"N	103°57'41.268"W	0.00
10118.00†	89.480	87.600	8331.89	2004.85	83.95	2003.09	614463.74	627095.54	32°43'24.346"N	103°57'40.098"W	0.00
10218.00†	89.480	87.600	8332.79	2104.85	88.14	2103.00	614563.64	627099.73	32°43'24.384"N	103°57'38.929"W	0.00
10318.00†	89.480	87.600	8333.70	2204.84	92.33	2202.91	614663.54	627103.92	32°43'24.422"N	103°57'37.759"W	0.00
10418.00†	89.480	87.600	8334.61	2304.84	96.51	2302.82	614763.44	627108.11	32°43'24.460"N	103°57'36.590"W	0.00
10518.00†	89.480	87.600	8335.51	2404.84	100.70	2402.73	614863.34	627112.29	32°43'24.498"N	103°57'35.420"W	0.00
10618.00†	89.480	87.600	8336.42	2504.83	104.89	2502.63	614963.24	627116.48	32°43'24.536"N	103°57'34.250"W	0.00
10718.00†	89.480	87.600	8337.33	2604.83	109.07	2602.54	615063.14	627120.67	32°43'24.573"N	103°57'33.081"W	0.00
10818.00†	89.480	87.600	8338.24	2704.82	113.26	2702.45	615163.04	627124.85	32°43'24.611"N	103°57'31.911"W	0.00
10918.00†	89.480	87.600	8339.14	2804.82	117.45	2802.36	615262.94	627129.04	32°43'24.649"N	103°57'30.742"W	0.00
11018.00†	89.480	87.600	8340.05	2904.81	121.64	2902.27	615362.84	627133.23	32°43'24.687"N	103°57'29.572"W	0.00
11118.00†	89.480	87.600	8340.96	3004.81	125.82	3002.18	615462.74	627137.41	32°43'24.725"N	103°57'28.403"W	0.00
11218.00†	89.480	87.600	8341.86	3104.81	130.01	3102.08	615562.64	627141.60	32°43'24.763"N	103°57'27.233"W	0.00
11318.00†	89.480	87.600	8342.77	3204.80	134.20	3201.99	615662.54	627145.79	32°43'24.801"N	103°57'26.063"W	0.00
11418.00†	89.480	87.600	8343.68	3304.80	138.39	3301.90	615762.44	627149.97	32°43'24.839"N	103°57'24.894"W	0.00
11518.00†	89.480	87.600	8344.58	3404.79	142.57	3401.81	615862.34	627154.16	32°43'24.877"N	103°57'23.724"W	0.00
11618.00†	89.480	87.600	8345.49	3504.79	146.76	3501.72	615962.24	627158.35	32°43'24.915"N	103°57'22.555"W	0.00
11718.00†	89.480	87.600	8346.40	3604.79	150.95	3601.62	616062.14	627162.54	32°43'24.953"N	103°57'21.385"W	0.00
11818.00†	89.480	87.600	8347.30	3704.78	155.13	3701.53	616162.04	627166.72	32°43'24.991"N	103°57'20.215"W	0.00
11918.00†	89.480	87.600	8348.21	3804.78	159.32	3801.44	616261.94	627170.91	32°43'25.029"N	103°57'19.046"W	0.00
12018.00†	89.480	87.600	8349.12	3904.77	163.51	3901.35	616361.84	627175.10	32°43'25.066"N	103°57'17.876"W	0.00
12118.00†	89.480	87.600	8350.03	4004.77	167.70	4001.26	616461.74	627179.28	32°43'25.104"N	103°57'16.707"W	0.00
12218.00†	89.480	87.600	8350.93	4104.77	171.88	4101.17	616561.64	627183.47	32°43'25.142"N	103°57'15.537"W	0.00
12318.00†	89.480	87.600	8351.84	4204.76	176.07	4201.07	616661.54	627187.66	32°43'25.180"N	103°57'14.368"W	0.00
12418.00†	89.480	87.600	8352.75	4304.76	180.26	4300.98	616761.44	627191.84	32°43'25.218"N	103°57'13.198"W	0.00
12518.00†	89.480	87.600	8353.65	4404.75	184.45	4400.89	616861.34	627196.03	32°43'25.256"N	103°57'12.028"W	0.00
12618.00†	89.480	87.600	8354.56	4504.75	188.63	4500.80	616961.25	627200.22	32°43'25.294"N	103°57'10.859"W	0.00
12718.00†	89.480	87.600	8355.47	4604.74	192.82	4600.71	617061.15	627204.40	32°43'25.332"N	103°57'09.689"W	0.00
12818.00†	89.480	87.600	8356.37	4704.74	197.01	4700.61	617161.05	627208.59	32°43'25.370"N	103°57'08.520"W	0.00
12918.00†	89.480	87.600	8357.28	4804.74	201.19	4800.52	617260.95	627212.78	32°43'25.407"N	103°57'07.350"W	0.00
12997.33	89.480	87.600	8358.00†	4884.07	204.52	4879.78	617340.20	627216.10	32°43'25.437"N	103°57'06.422"W	0.00

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
1) No. 4H PBHL	12997.33	8358.00	204.52	4879.78	617340.20	627216.10	32°43'25.437"N	103°57'06.422"W	point

Mewbourne Oil Company
 BOP Schematic for
 12 1/4" Hole

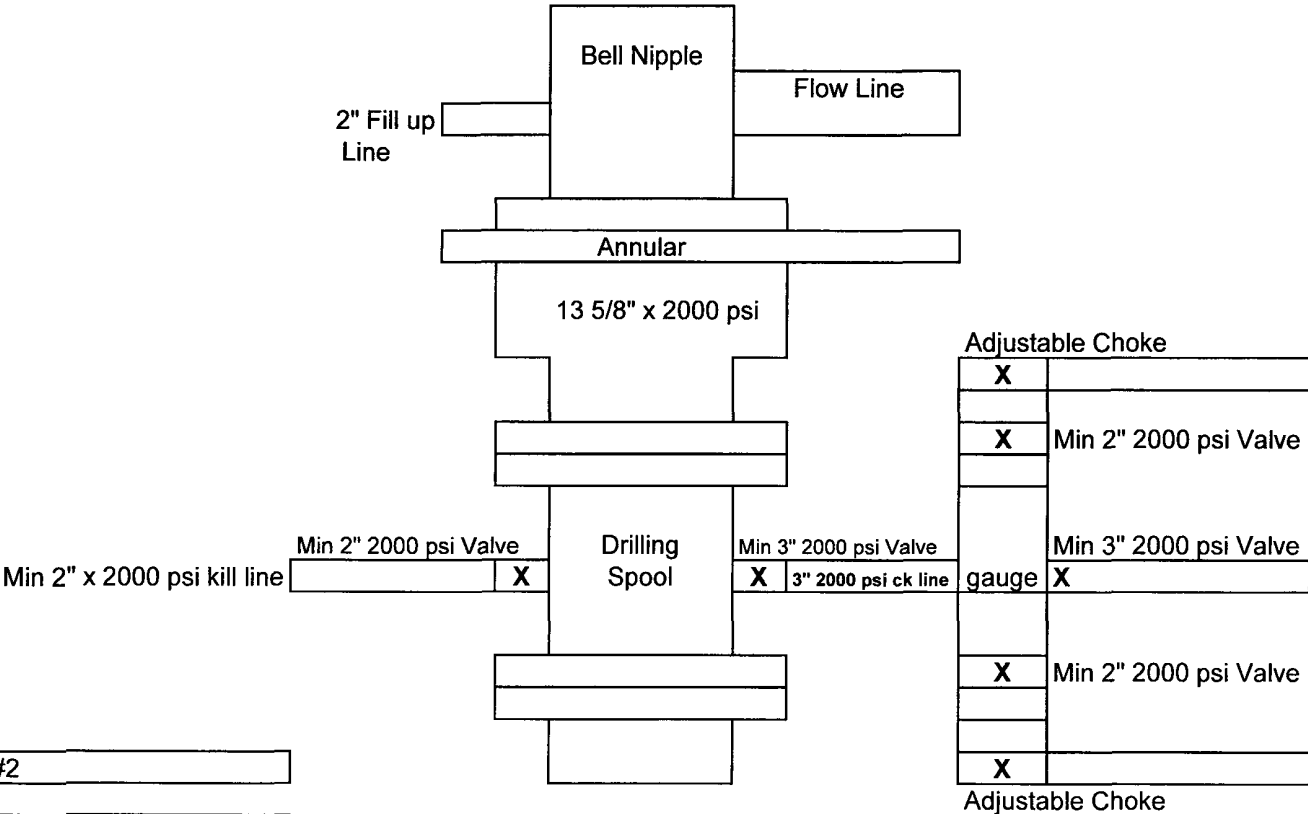


Exhibit #2

Ursa "27" Fed Com #4H
 855' FNL & 70' FWL
 Sec 27-T18S-R30E
 Eddy, County
 New Mexico

Mewbourne Oil Company
BOP Schematic for
8 3/4" & 6 1/8" Holes

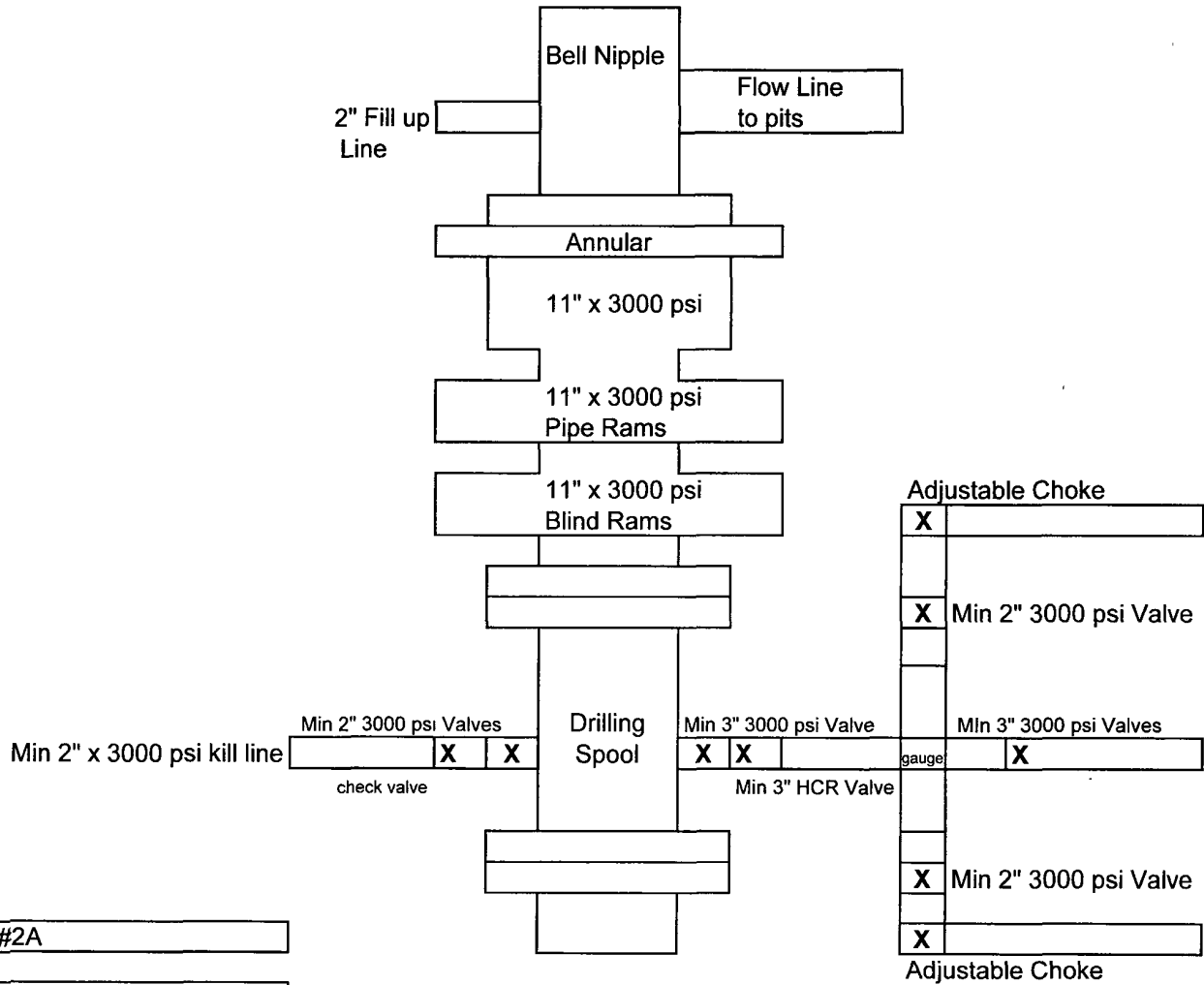


Exhibit #2A

Ursa "27" Fed Com #4H
855' FNL & 70' FWL
Sec 27-T18S-R30E
Eddy, County
New Mexico

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Ursa "27" Federal Com #4H

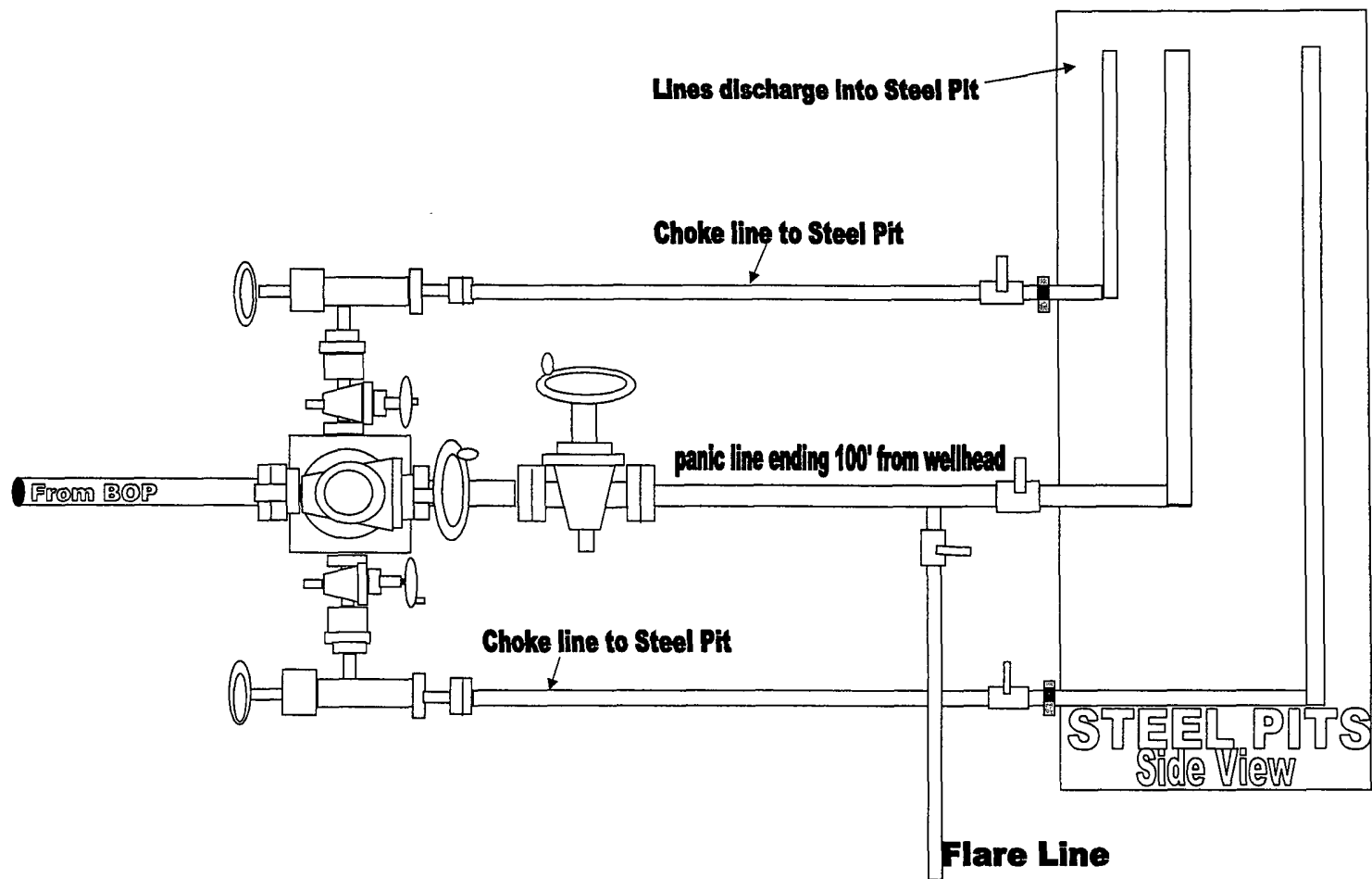
855' FNL & 70' FWL (SHL)

Sec 27-T18S-R30E

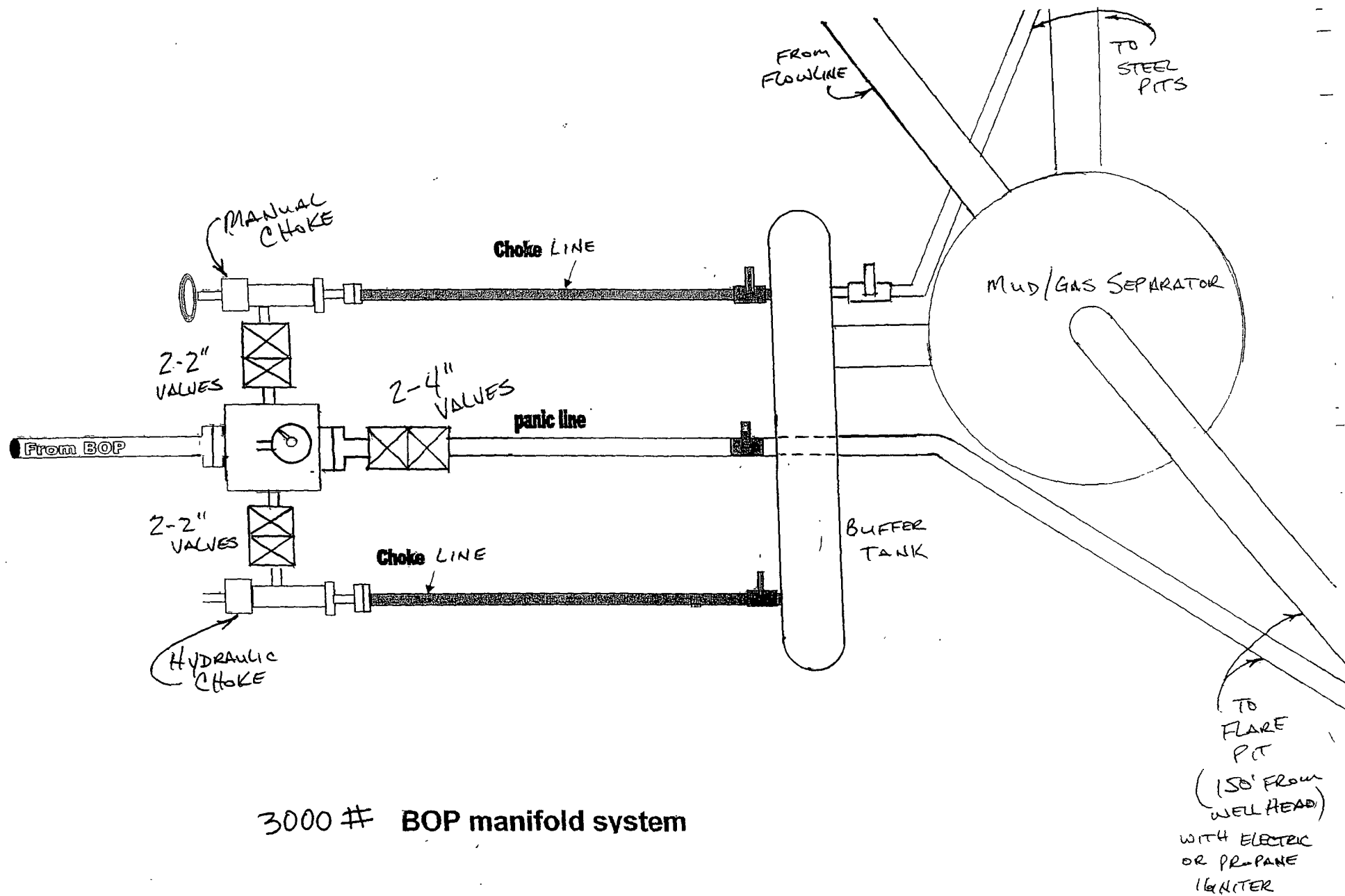
Eddy County, New Mexico

- 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 $\frac{3}{8}$ " casing and 3000 psi working pressure on the 9 $\frac{5}{8}$ " & 7" casing strings.
- 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



Closed Loop Pad Dimensions 280' x 320'

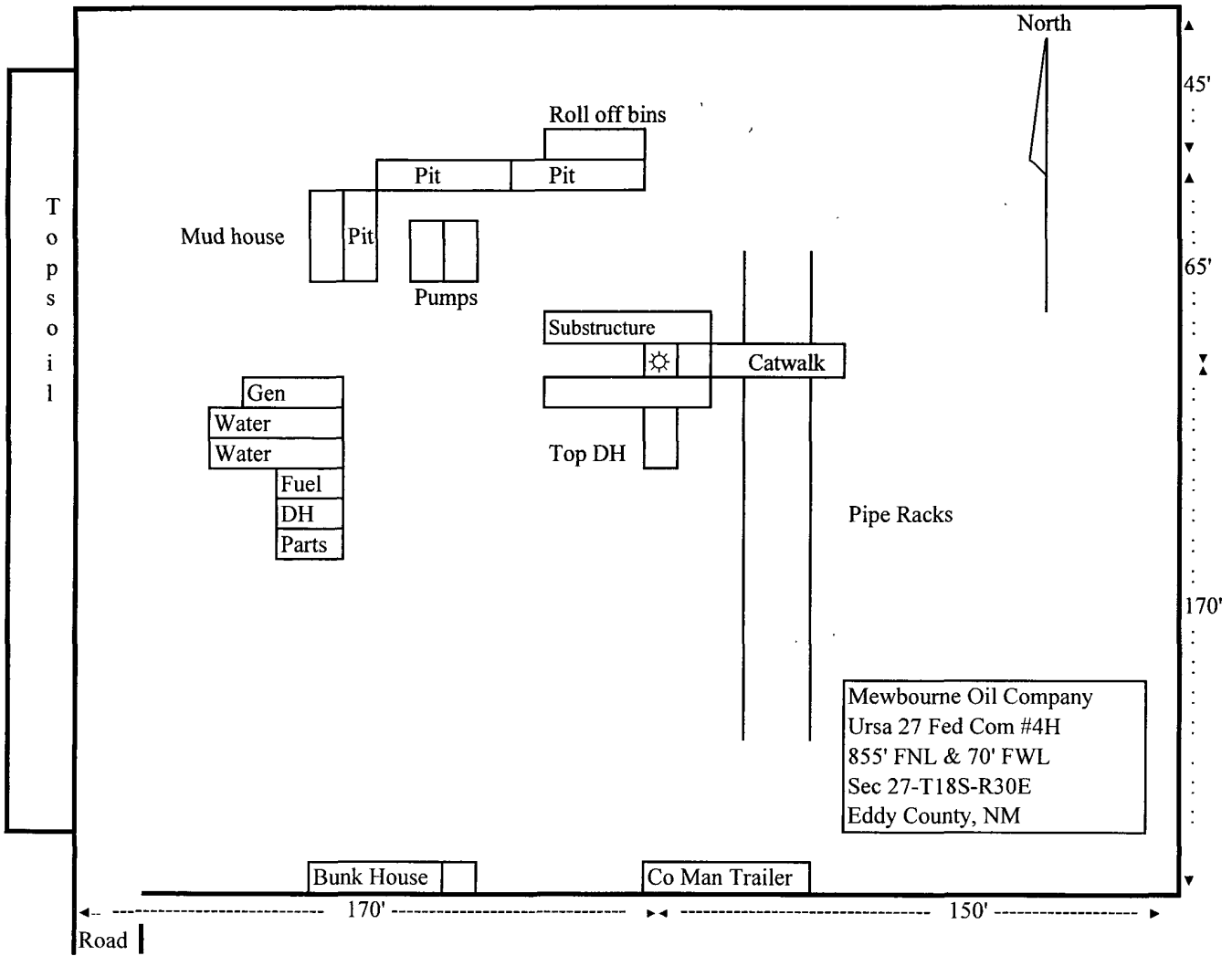


Exhibit 5

DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

Operator New Horve OGRID # 14744
 Well Name & # ORSA "27" FEDERAL COM Surface Type (F) (S) (P)
 Location: UL D, Sect 27, Twnship 18 s, RNG 30 e, Sub-surface Type (F) (S) (P)

A. Date C101 rec'd 10/31/2011 C101 reviewed 11/2/2011

B. 1. Check mark, Information is OK on Forms:

OGRID 14744, BONDING 11/2/2011, PROP CODE 11/2/2011, WELL # 11/2/2011, SIGNATURE 11/2/2011

2. Inactive Well list as of: 11/2/2011 # wells 611, # Inactive wells 2

a. District Grant APD but see number of inactive wells:

No letter required ✓; Sent Letter to Operator 11/2/2011, to Santa Fe 11/2/2011

3. Additional Bonding as of: 11/2/2011

a. District Denial because operator needs addition bonding:

No Letter required ✓; Sent Letter to Operator 11/2/2011, To Santa Fe 11/2/2011

b. District Denial because of Inactive well list and Financial Assurance:

No Letter required ✓; Sent Letter to Operator 11/2/2011, To Santa Fe 11/2/2011

C. C102 YES ✓, NO 11/2/2011, Signature Smith

1. Pool SAINTO NINO; B.S., Code 54660

a. Dedicated acreage 160, What Units D-C-B-A

b. SUR. Location Standard 160: Non-Standard Location 160

c. Well shares acres: Yes 160, No 160, # of wells 160 plus this well # 160

2. 2nd. Operator in same acreage, Yes 160, No 160

Agreement Letter 160, Disagreement letter 160

3. Intent to Directional Drill Yes 160, No 160

a. Dedicated acreage 160, What Units 160

b. Bottomhole Location Standard 160, Non-Standard Bottomhole 160

4. Downhole Commingle: Yes 160, No 160

a. Pool #2 160, Code 160, Acres 160

Pool #3 160, Code 160, Acres 160

Pool #4 160, Code 160, Acres 160

5. POTASH Area Yes 160, No 160

D. Blowout Preventer Yes 160, No 160

E. H2S Yes 160, No 160

F. C144 Pit Registration Yes 160, No 160

G. Does APD require Santa Fe Approval: 160

1. Non-Standard Location: Yes 160, No 160, NSL # 160

2. Non-Standard Proration: Yes 160, No 160, NSP # 160

3. Simultaneous Dedication: Yes 160, No 160, SD # 160

Number of wells 160 Plus # 160

4. Injection order Yes 160, No 160; PMX # 160 or WFX # 160

5. SWD order Yes 160, NO 160; SWD # 160

6. DHC from SF 160; DHC-HOB 160; Holding 160

7. OCD Approval Date 11/2/2011

API #30-0 15-35582

8. Reviewers 160

Field EXT. 11/2/2011