RECEIVED OC	D-ARTES	AK		FORM	APPROVED		
NMOCD ARTES AUREAU OF LAND MAN APPLICATION FOR PERMIT TO	INTERIOR NAGEMENT	SECRETARY	s poti	0.00.1	o. 1004-0137 July 31, 2010 MNM 28097 3.₩		
				7 If Unit or CA Agre	eement, Name and No.		
la. Type of work: DRILL REENT	ER			8. Lease Name and	<u> </u>		
1b. Type of Well: ✓ Oil Well ☐ Gas Well ☐ Other 2. Name of Operator Mewbourne Oil Company	Sing	ele Zone Multip	le Zone	Aries "19" IL Fed C	Com #1H < 39354 > - 4/1499 TOS		
3a. Address PO Box 5270 Hobbs, NM 88240	(575) 393-59			10. Field and Pool, or Sand Tank Bone S	Epring SANTO Ni		
 Location of Well (Report location clearly and in accordance with a At surface 1770' FSL & 110' FWL (Unit L) Sec 20 At proposed prod. zone 1770' FSL & 330' FWL (Unit L) Se 		UNORTH LOCAT	10M 000'	N1. Sec., T. R. M. or E Sec 20, T18S, R30	Blk. and Survey or Area		
14 Distance in miles and direction from nearest town or post office* 25 miles NE of Carlsbad, NM				12 County or Parish Eddy	13. State		
Distance from proposed* 110' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	res in lease	17 Spacin 158.25	7 Spacing Unit dedicated to this well 158.25				
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 110' West of the Aries 20 Fed Corn #3H	19 Proposed I 12991' MD 8164' TVD	Depth		MBIA Bond No. on file 93, Nationwide			
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3474' GL	22. Approximate	ate date work will star	t*	23. Estimated duration 42 days			
	24. Attach	ments					
 The following, completed in accordance with the requirements of Onshe 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) 		4 Bond to cover the litem 20 above).5 Operator certification.	ne operatio	ns unless covered by an	n existing bond on file (see		
25. Signature From Ball.	1 '	Printed/Typed) ednarz			Date 02/09/2012		
Petroleum Engineer							
Approved by (Signature)	Name (Printed/Typed)	-	• -	Date 1 6 201		
STATE DIRECTOR	Office			E OFFICE			
Application approval does not warrant or certify that the applicant hol conduct operations thereon. Conditions of approval, if any, are attached	ds legal or equita	ble title to those righ	ts.in.the sub	•	entitle the applicant to FOR TWO YEARS		
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious or fraudulent statements or representations as	crime for any per to any matter wit	son knowingly and value of the state of the	villfully to n	nake to any department	or agency of the United		

(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 $\underline{q^{+}}$ day of $\underline{\text{Feb.}}$, 2012.
Name: NM Young
Signature: Both Redy Non Young
Position Title: <u>Hobbs District Manager</u>
Address: PO Box 5270, Hobbs NM 88241
Telephone: <u>575-393-5905</u>
E-mail: myoung@mewbourne.com

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (675) 893-6161 Fax: (675) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (675) 748-1263 Fax: (675) 748-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6176 Fax (505) 334-6170

2000

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised August 1, 2011

7977

26040

BASIN SURVEYS

Submit one copy to appropriate
District Office

OIL CONSERVATION DIVISION

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

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone (505) 476-3480 Fax: (505) 476-3462 ☐ AMENDED REPORT WELL LOCATION AND ACREAGE DEDICATION PLAT API Number Pool Code 16832 ank! Bone Property Na ARIES 19 IL Property Name Well Number Fed Com 1H Operator Name Elevation 3474' 14744 MEWBOURNE OIL COMPANY Surface Location Feet from the UL or lot No. Section Lot Idn Feet from the North/South line East/West line Township Range County 20 18 S 30 E 1770 SOUTH 110 WEST **EDDY** 1 Bottom Hole Location If Different From Surface UL or lot No. Section Township Lot Idn Feet from the North/South line East/West line Range Feet from the County 330 South West 185 30E 1770 Dedicated Acres Joint or Infill Consolidation Code Order No. 158.25 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. 32# 2-9-12 Signature Brett Producing Project Printed Name Email Address SURVEYOR CERTIFICATION BHL 110 I hereby certify that the well location shown SL on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief. Sign

2000

SCALE: 1" = 2000

4000 FEET

Drilling Program Mewbourne Oil Company

Aries "19" IL Fed Com #1H 1770' FSL & 110' FWL (SHL) Sec 20-T18S-R30E Eddy County, New Mexico

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

Rustler	300'
Top Salt	400'
Base Salt	1170'
Yates	1350'
Seven Rivers	1600'
*Queen	2400'
Grayburg	2760'
*San Andres	3230'
*Delaware	3690'
*Bone Springs	4150'

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

Water Fresh water is anticipated @ 180' and will be protected by setting surface

casing at 325' 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 7687' & kick off to horizontal @ 8164' TVD. The well will be drilled to 12991' MD (8089' TVD). See attached directional plan.

5. Proposed casing and cementing program:

A. Casin	g Program:				•
Hole Size	Casing	Wt/Ft.	<u>Grade</u>	<u>Depth</u>	Jt Type
17 ½"	13 ¾" (new)	48#	H40	0'-325'	ST&C
12 1/4"	9 %" (new)	36#	J55	0'-1450'	LT&C
8 3/4"	7" (new)	26#	P110	0'-7687' MD	LT&C
8 ¾"	7" (new)	26#	P110	7687'-8445' MD	BT&C
6 1/8"	4 ½" (new)	11.6#	P110	8245'-12991' MD	LT&C

Minimum casing design factors: Collapse 1 125, Burst 1 0, Tensile strength 1.8. *Subject to availability of casing.

Drilling Program
Mewbourne Oil Company
Arnes "19" IL Fed Com #1H
Page 2

B. Cementing Program:

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i. <u>Surface Casing</u>: 350 sks Class "C" cement w/2% CaCl. Yield @ 1.34 cuft/sk. Cmt circulated to surface w/100% excess.

Intermediate Casing: 150 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.

<u>Production Casing:</u> 515 sacks Class "H" (35:65:4) light cement w/ salt & LCM additives. Yield @ 2.12 cuft/sk. 400 sacks Class "H" cement w/ FL additives. Yield @ 1.18 cuft/sk. Cmt circulated to surface w/25% excess.

<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:

Interval	Type System	<u>Weight</u>	<u>Viscosity</u>	Fluid Loss
0' - 325'	FW spud mud	8.6-9.0	32-34	NA
325' - 1450'	Brine water	10.0-10.2	28-30	NA
1450' - 7687' (KOP)	Cut Brine	8.5-8.7	28-30	NA
7687' - TD	Cut Brine w/polymer	8.5-8 7	· 32-35	15

7. Evaluation Program: Se Con

Samples: 10' samples from surface casing to TD

Logging: CN, GR & Gyro from KOP -100' (7587') to surface. GR from 7587' 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 19-18S-30E Aries 19 Fed Com #1H

Wellbore #1

Plan: Design #1

DDC Well Planning Report

31 January, 2012



Well Planning Report



Database EDM 5000 1 Single User Db

Mewbourne Oil Co

Eddy County, New Mexico

Sec 19-18S-30E

Well: Aries 19 Fed Com #1H Wellbore: Wellbore #1

Design #1

Local Co-ordinate Reference:

TVD Reference: 🕮

MD Reference: North Reference:

Survey Calculation Method:

Well Aries 19 Fed Com #1H WELL @ 3494 Ousft (Patterson) WELL @ 3494.0usft (Patterson)

Grid

Minimum Curvature

South and the	100000000000000000000000000000000000000	1.	Eddy Co		
TOLOC	Control of the Contro	2000		יו עודמונו	VICO.

Map System:

Company

Project:

Site: 🤻

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Geo Datum: New Mexico East 3001 Map Zone:

System Datum:

Mean Sea Level

Site

Site Position:

Northing:

629,625.90 usft

32° 43' 49 796 N

From:

Map

Easting:

601,928.40 usft

Longitude:

Position Uncertainty:

0.0 usft Slot Radius:

13-3/16 "

104° 0' 6.741 W

Grid Convergence:

0.18°

Well Position

+N/-S +E/-W 00 usft 0.0 usft

Northing: Easting:

629,625.90 usft 601,928.40 usft

Latitude: Longitude: 32° 43' 49.796 N 104° 0' 6 741 W

Position Uncertainty

0.0 usft

Wellhead Elevation:

Ground Level:

3,474 0 usft

Wellbore Wellbore #1

Magnetics: Model Name

Declination →

⊉Dip Angle 🦫

Field Strength

IGRF2010

1/31/2012

Audit Notes:

Version:

Phase:

/ertical

8,164 0

8,089 0

Tie On Depth:

Vertical Section

Depth From (TVD) (usft)

FFE/WEST

Direction **感到(2)**图

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506 5

275 78

Plan Sections Measured.

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0 00 PBHL Aries 19 Fed

Well Planning Report



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

Sec 19-18S-30E Aries 19 Fed Com #1H

Site: Well: Wellbore: Design: Wellbore #1 Design #1

Local Co-ordinate Reference: Well Aries 19 Fed Com #1H TVD:Reference: ## WELL @ 3494.0usft (Patterson)
MD:Reference: WELL @ 3494.0usft (Patterson)
North:Reference: Grid Survey Calculation Method: 6 Minimum Curvature

· "一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	Vellbore #1 Design #1								
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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 19-18S-30E

Aries 19 Fed Com #1H

Local Co-ordinate Reference:

Well Aries 19 Fed Com #1H

WELL @ 3494.0usft (Patterson)
WELL @ 3494.0usft (Patterson)
WELL @ 3494.0usft (Patterson)
Grid
Aries 19 Fed Com #1H

Survey Calculation Method:

Minimum Curvature

Design #1

Design:	esign # i	MITTERSTEE THE ACTION TO A STREET MAKENY	CONTRACTOR STATEMENTS				STREET STREET,	ner province in the second rate of the second rate	THE SHOP SHOW IN THE SHEET SHOW HELD AND ADMINES
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Build 12°/100' @	ก 7687' MD	ı	,						
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•	1.61	275 78	7,700.0	0.0	-0.2	0.2	12 00	12.00	0.00
7,700.0									
7,800.0	13.61	275.78	7,798.9	1.3	-13 3	13.4	12 00	12.00	0.00
7,900.0	25.61	275.78	7,893.0	4.7	-46.7	46 9	12.00	12.00	0.00
8,000.0	37 61	275.78	7,978.0	10 0	-98.7	99.2	12 00	12.00	0.00
8,100.0	49.61	275.78	8,050.3	16 9	-167 2	168.1	12.00	12.00	0.00
8,200.0	61.61	275.78	8,106 6	25.2	-249.2	250.4	12.00	12.00	0.00
8,300.0	73.61	275.78	8,144.7	34 5	-341 0	342.7	12.00	12.00	0.00
8,300.0									
8,400.0	85.61	275.78	8,162 7	44.4	-438 7	440 9	12.00	12.00	0.00
EOB @ 8445' M	ID / 90.95° I	nc / 275.78° A	\zm / 8164' T\	/D					
8,444 5	90 95	275.78	8.164.0	48.9	-482 9	485.3	12.00	12 00	0.00
8,500.0	90 95	275.78	8,163 1	54.5	-538 1	540.9	0.00	0 00	0.00
8,600.0	90.95	275.76	8,161.4	64 5	-637 6	640.8	0.00	0.00	0.00
8,700 0	90.95	275 78	8,159.8	74.6	-737.1	740.8	0.00	0.00	0.00
•			•						
8,800.0	90.95	275.78	8,158.1	84 7	-836.5	840.8	0.00	0 00	0.00
8,900.0	90 95	275.78	8,156.5	94 7	-936.0	940.8	0.00	0.00	0.00
9,000.0	90.95	275.78	8,154.8	104.8	-1,035 5	1,040.8	0.00	0 00	0.00
9,100.0	90.95	275.78	8,153 2	114.9	-1,135 0	1,140 8	0.00	0.00	0.00
9,200 0	90.95	275.78	8,151 5	124.9	-1,234.5	1,240 8	0.00	0.00	0.00
9,300.0	90.95	275 78	8,149.9	135.0	-1,333.9	1,340 7	0.00	0.00	0.00
9,400.0	90.95	275.78	8,148.2	145 1	-1,433 4	1,440.7	0.00	0 00	0.00
9,500.0	90.95	275.78	8,146.6	155.1	-1,532.9	1,540.7	0.00	0.00	0.00
9,600.0	90.95	275.78	8,144 9	165 2	-1,632.4	1,640.7	0.00	0.00	0.00
9,700.0	90.95	275 78	8,143.3	175.3	-1,731 8	1,740.7	0.00	0.00	0.00
9,800 0	90.95	275.78	8,141 6	185 3	-1,831.3	1,840.7	0.00	0 00	0.00
9,900.0	90.95	275 78	8,140 0	195.4	-1,930 8	1,940 7	0.00	0 00	0 00
10,000.0	90.95	275.78	8,138 3	205.5	-2,030.3	2,040.7	0.00	0 00	0 00
10,100 0	90.95	275.78	8,136.7	215.5	-2,129.8	2,140 6	0.00	0 00	0 00
10,200.0	90.95	275.78	8,135.0	225 6	-2,229.2	2,240 6	0.00	0.00	0.00
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Well Planning Report



EDM 5000.1 Single User Db

Mewbourne Oil Co

Eddy County, New Mexico
Sec 19-18S-30E

Aries 19 Fed Com #1H

Survey Calculation: Method:

Well Aries 19 Fed Com #1H

Well @ 3494.0usft (Patterson)
Well @ 3494.0usft (Patterson)
Well @ 3494.0usft (Patterson)
Grid
Minimum Curvature

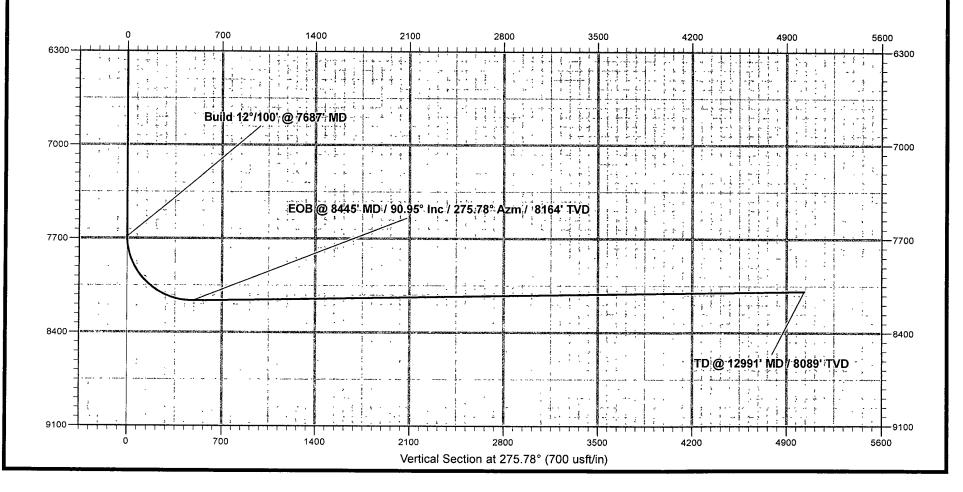
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10,500.0	90.95	275.78	8,130.1	255.8	-2,527.7	2,540.6	0 00	0 00	0.00
10,600.0	90.95	275.78	8,128.4	265.9	-2,627 2	2,640.6	0 00	0 00	0.00
10,700.0	90.95	275.78	8,126 8	275.9	-2,726 6	2,740.6	0 00	0 00	0.00
10.800 0	90.95	275.78	8,125 1	286 0	-2,826.1	2,840.5	0.00	0.00	0.00
10,900.0	90.95	275.78	8,123.5	296 1	-2,925.6	2,940 5	0.00	0.00	0.00
11,000.0	90.95	275.78	8,121.8	306.1	-3,025.1	3,040.5	0.00	0.00	0.00
11,100.0	90.95	275.78	8,120.2	316.2	-3,124.5	3,140 5	0.00	0 00	0.00
11,200.0	90.95	275.78	8,118.5	326.3	-3,224.0	3,240.5	0 00	0 00	0.00
11,300.0	90.95	275.78	8,116.9	336 3	-3,323.5	3,340.5	0 00	0.00	0.00
11,400.0	90.95	275.78	8,115.2	346.4	-3,423.0	3,440.5	0.00	0.00	0.00
11,500.0	90.95	275.78	8,113.6	356 5	-3,522 5	3,540.4	0.00	0.00	0.00
11,600.0	90.95	275.78	8,111 9	366 5	-3,621 9	3,640.4	0.00	0.00	0.00
11,700.0	90.95	275.78	8,1103	376.6	-3,721 4	3,740 4	0.00	0.00	0.00
,			,		•				
11,800.0	90 95	275.78	8,108.6	386.7	-3,820.9	3,840 4	0 00	0.00	0.00
11,900 0	90.95	275.78	8,107.0	396 7	-3,920.4	3,940 4	0.00	0 00	0.00
12,000 0	90 95	275.78	8,105.3	406.8	-4,019.9	4,040.4	0.00	0 00	0.00
12,100.0	90.95	275 78	8,103.7	416.9	-4,119.3	4,140.4	0 00	0.00	0.00
12,200.0	90.95	275.78	8,102.0	426 9	-4,218.8	4,240.4	0 00	0 00	0.00
12,300.0	90 95	275 78	8,100.4	437.0	-4,318.3	4,340.3	0 00	0 00	0.00
12,400 0	90 95	275.78	8,098 7	447.1	-4,417 8	4,440.3	0.00	0.00	0 00
12,500 0	90 95	275.78	8,097.1	457.1	-4,517.2	4,540.3	0.00	0.00	0.00
12,600 0	90.95	275.78	8.095 4	467 2	-4,616 7	4,640.3	0 00	0.00	0.00
12,700.0	90.95	275.78	8,093 8	477.3	-4,716 2	4,740.3	0.00	0.00	0 00
12.800.0	90.95	275.78	8.092.1	487 3	-4.815.7	4.840 3	0.00	0.00	0.00
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Target Name - hit/miss target: Dip A			T .D.	30.0		Northing					
- Shape (°	ngie. טוע זייל	ווש וי. מי	(ueff)	+N/-S (usft)	+E/-W .* /usft)	Northing ()	Easting.				
				at booking s		公司等的政策的公司		La	titude	Longitude	
PBHL Aries 19 Fed C	0 00	0.00	8,089.0	506 5	-5,005 2	630,132.40	596,923.20	32° 4	3' 54 960 N	104° 1' 5.317 W	
- plan hits target center											

Plan/Annotations	TO PERSON SECUL STATES	ransament ranka terhanasara n	েলায়ের ক্রানার্থায়, রাজ্য লাভালায়িকে _ক ন্ধ	The control of the co
Measured -	Vertical	Local Coordi	nates	
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7,686.6	7,686.6	0.0	0 0	Build 12°/100' @ 7687' MD
8,444.5	8,164.0	48 9	-482 9	EOB @ 8445' MD / 90.95° Inc / 275.78° Azm / 8164' TVD
12,990.5	8,089.0	506.5	-5,005 2	TD @ 12991' MD / 8089' TVD

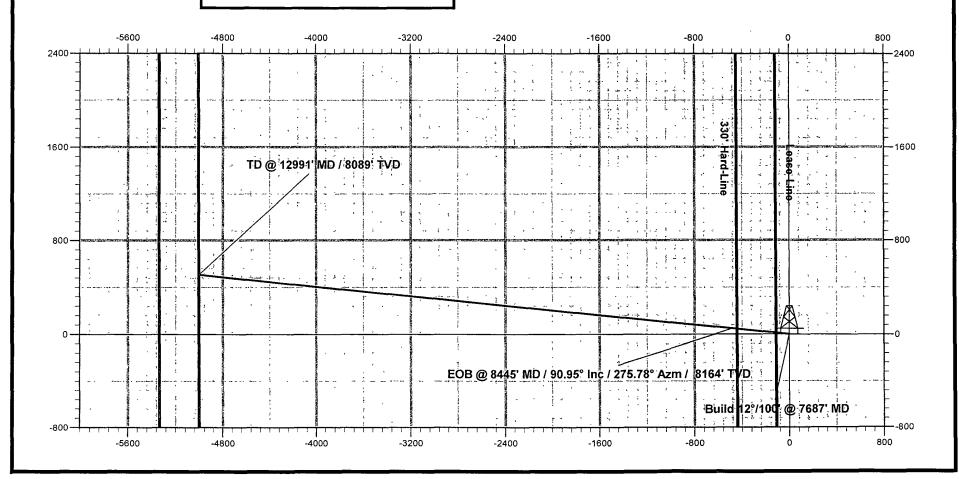
Eddy County, New Mexico
Aries 19 Fed Com #1H
Quote 120068





Eddy County, New Mexico
Aries 19 Fed Com #1H
Quote 120068





BOP Schematic for 12 1/4" Hole

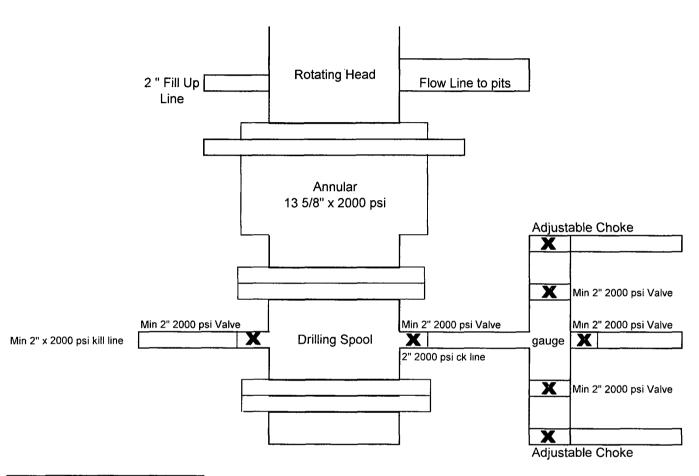


Exhibit #2

Aries "19" IL Fed Com#\\
1770' FSL & 110' FWL
Sec 20-T18S-R30E
Eddy, County
New Mexico

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

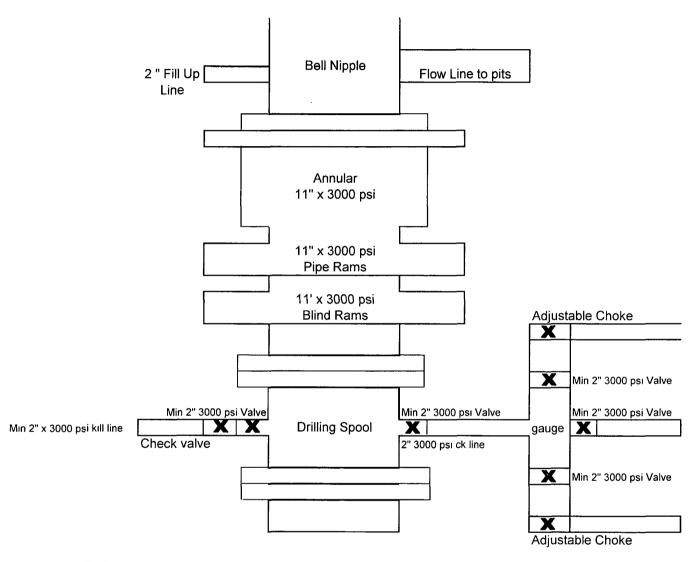


Exhibit #2

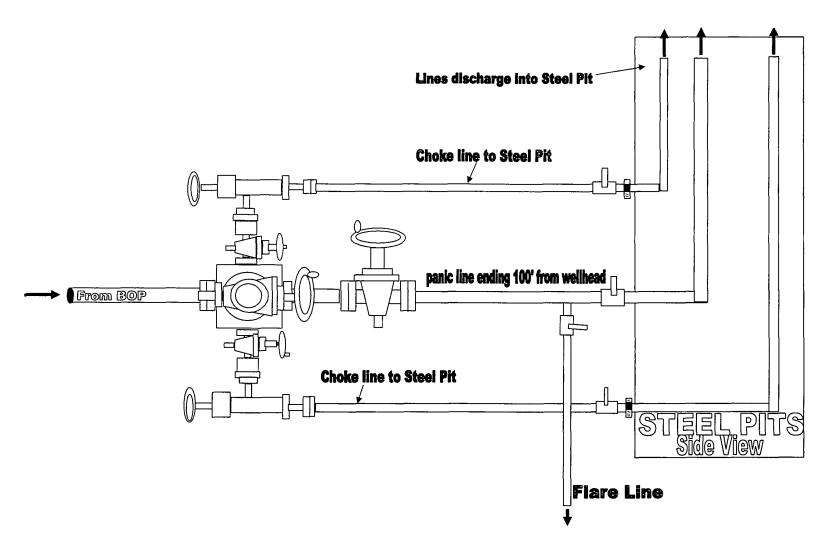
Aries "19" IL Feacon #1H 1770' FSL & 110' FWL Sec 20-T18S-R30E Eddy, County New Mexico

Notes Regarding Blowout Preventer Mewbourne Oil Company

Aries "19" IL Fed Com #(H 1770' FSL & 110' FWL (SHL) Sec 20-T18S-R30E Eddy County, New Mexico

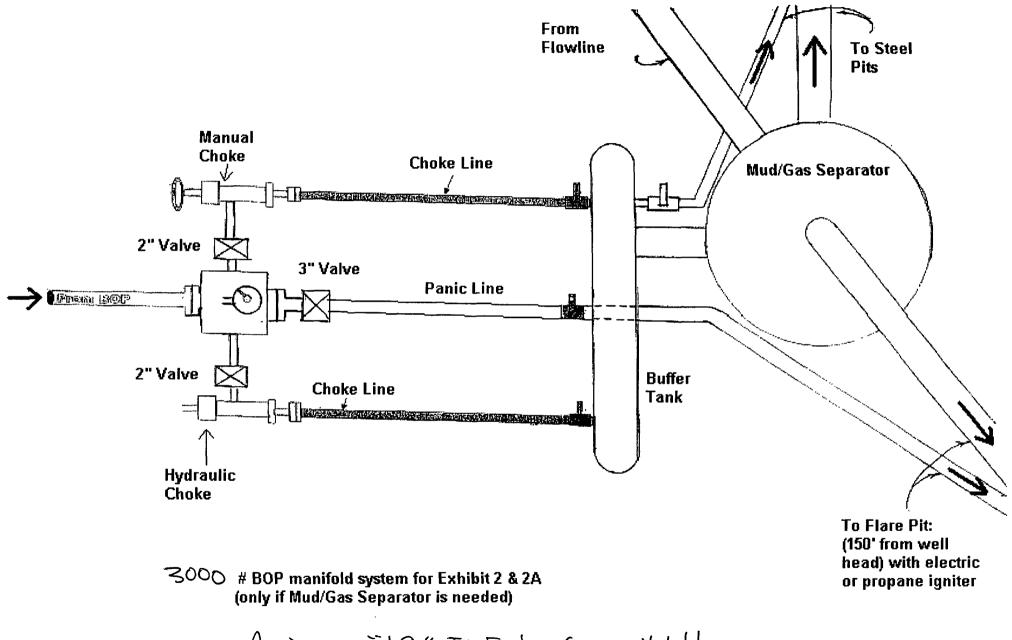
- I. Drilling nipple (bell nipple) to be constructed so that it can be removed without the use of a welder through the opening of the rotary table, with minimum internal diameter equal to blowout preventer bore.
- II. Blowout preventer and all fittings must be in good condition with a minimum 2000 psi 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.

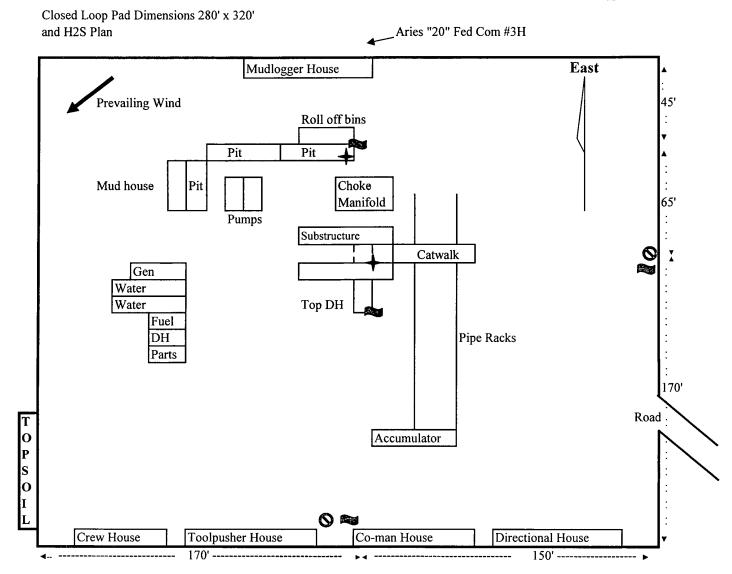


3000# BOP manifold system for Exhibit 2 & 2A

Aries "19" IL Fed Com #1H



Aries "19" ILFed Com #1H



Legend Wellbore Location Spriefing Area w/ SCBA + H2S Sensors Windsocks

Mewbourne Oil Company Aries "19" エレ Fed んか 無り 1770' FSL & 110' FWL Sec 20-T18S-R30E Eddy County, NM

Hydrogen Sulfide Drilling Operations Plan

Mewbourne Oil Company
Aries "19" IL Fed Com #1H
1770' FSL & 110' FWL
Sec 20-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. <u>Protective Equipment for Essential Personnel</u>

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

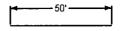
Drill stem testing is not an anticipated requirement for evaluation of this well. A drill stem test is required, it will be conducted with a minimum number of personnel in the immediate vicinity. The test will be conducted during daylight hours only.

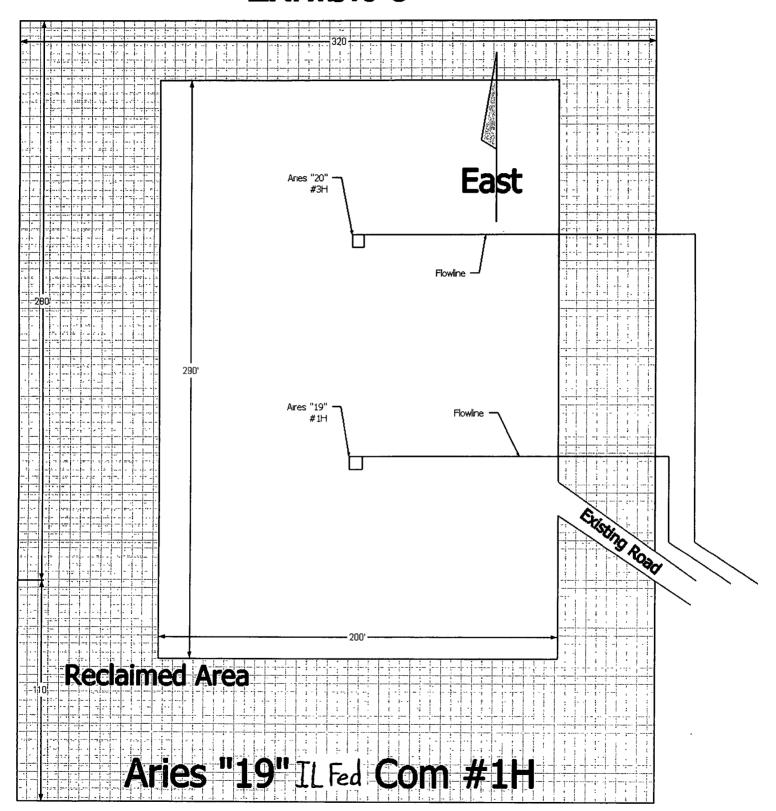
8. Emergency Phone Numbers

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	575-393-5905	
	Fax	575-397-6252	
	2 nd Fax	575-393-7259	
District Manager	Micky Young	575-390-0999	
Drilling Superintendent	Frosty Lathan	575-390-4103	
Drilling Engineer	Jake Nave	575-602-1296	
Engineer	Brett Bednarz	575-390-6838	

Exhibit 6





PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	MEWBOURNE OIL COMPANY
LEASE NO.:	NM28097
WELL NAME & NO.:	1H ARIES 19 IL FED COM
SURFACE HOLE FOOTAGE:	1770' FSL & 110' FWL
BOTTOM HOLE FOOTAGE	1770' FSL & 330' FWL (Sec. 19)
LOCATION:	Section 20, T.18 S., R.30 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.

Ger Ger	neral Provisions
Per	mit Expiration
Arc	chaeology, Paleontology, and Historical Sites
	xious Weeds
Spe	ecial Requirements
	Buried Pipeline Stipulation
	Surface Pipeline Stipulation
	Lesser Prairie-Chicken Timing Stipulations
	Ground-level Abandoned Well Marker
	Communitization Agreement
Co	nstruction
	Notification
	Topsoil
	Closed Loop System
	Federal Mineral Material Pits
	Well Pads
,	Roads
Roa Roa	ad Section Diagram
🔀 Dri	lling
	Secretary's Potash
	H ₂ \$ – Onshore Order #6
	Waste Material and Fluids
🔀 Pro	oduction (Post Drilling)
	Well Structures & Facilities
	Pipelines
🔲 Inte	erim Reclamation
🔀 Fin	al Abandonment & Reclamation