

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

ARTESIA DISTRICT

JAN 03 2018

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMNM045273 ✓

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

SW244 NM71139

8. Well Name and No.
BOGLE FLATS UNIT GAS COM 10

317179

9. API Well No.
30-015-29228-00-S1

10. Field and Pool or Exploratory Area
INDIAN BASIN-STRAWN

11. County or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original APD
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion, the operator must file a form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

**SUBJECT TO LIKE
APPROVAL BY STATE**

Mewbourne Oil Company requests approval to make the following changes:

- 1) Change well name to Bogle Flats Federal Unit 3 Y1KC #1H.
- 2) Plug back well @ 1875'.
- 3) Mill window in casing at 1875' and drill lateral in Yeso formation with BHL @ 330' FNL & 1980' FWL, Sec 3 T22S R23E.
- 4) Set 4 1/2" cemented liner from 1825' to TD.

Follow attached plugback COA for approval.

Please see attachments for C-102, procedure, proposed wellbore diagram, new drilling plan, casing & cement information.

APPROVED

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

WITNESS

Old property code 317179 Plugback

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #389100 verified by the BLM Well Information System
For MEWBOURNE OIL COMPANY, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 10/04/2017 (18PP0132SE)

Name (Printed/Typed) ANDREW TAYLOR

Title ENGINEER

Signature (Electronic Submission)

Date 09/20/2017

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <i>Paul R. Swartz</i> 12/13/2017	Title <i>T PET</i>	Date
Conditions of approval, if any, are attached. Approval of this notice 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.		BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
Office		

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #389100 that would not fit on the form

32. Additional remarks, continued

Please contact Andy Taylor with any questions.

RE-ENTRY PROCEDURE

Submitted By: L. Jackson

Well
Name: Bogle Flats Fed Unit 3 Y1KC #1H

Location: 1,650' FSL & 1650' FWL
Sec 3, T22S, R23E
Eddy Co, NM

Date: 8/31/17

Csg Set: 7184' Packer Type: Temporary Packer

PBTD: 7241' Packer Depth: 7056'

Csg Size: 7" 26# K55 Min ID: 6.276"

Tbg Size: 3 1/2" 9.3# L-80 T&C EUE Existing Open
Hole Perfs: 7184' - 7241'

DV Tool: 3506' New Perfs: None

Procedure:

- 1) MIRU PU & rental equipment.
- 2) Kill well w/ 2% KCL water. NU 5k hydraulic BOP.
- 3) Release packer & TOOH w/ 3 1/2" tbg.
- 4) TIH open ended & spot 50 sk Class H cmt plug @ 7" shoe @ ~~7184'~~ ^{7241'} TOOH.
- 5) PU 7" 10K# CIBP. TIH & set @ 1875'. Circ hole clean w/FW.
- 6) Test csg to 3000#.
- 7) LD 3 1/2" tbg. ND BOP & install capping flange.
- 8) MIRU drilling rig.
- 9) TIH w/ whipstock. Orient & set whipstock on CIBP @ 1875'.
- 10) Mill window in 7" csg. TOOH.
- 11) PU directional tools. Drill curve & lateral according to dir plan.
- 12) Run 4 1/2" liner & cmt in place.
- 13) RDMO drilling rig.

Follow "Plugback Operation" conditions
of approval.

**Mewbourne Oil Co.
Proposed Wellbore Schematic
Bogle Flats Fed Unit 3 Y1KC #1H
Eddy County, NM**

Surface Casing:
Bit: 14 3/4"
9 5/8" J-55 36# ST&C
Set @1524'

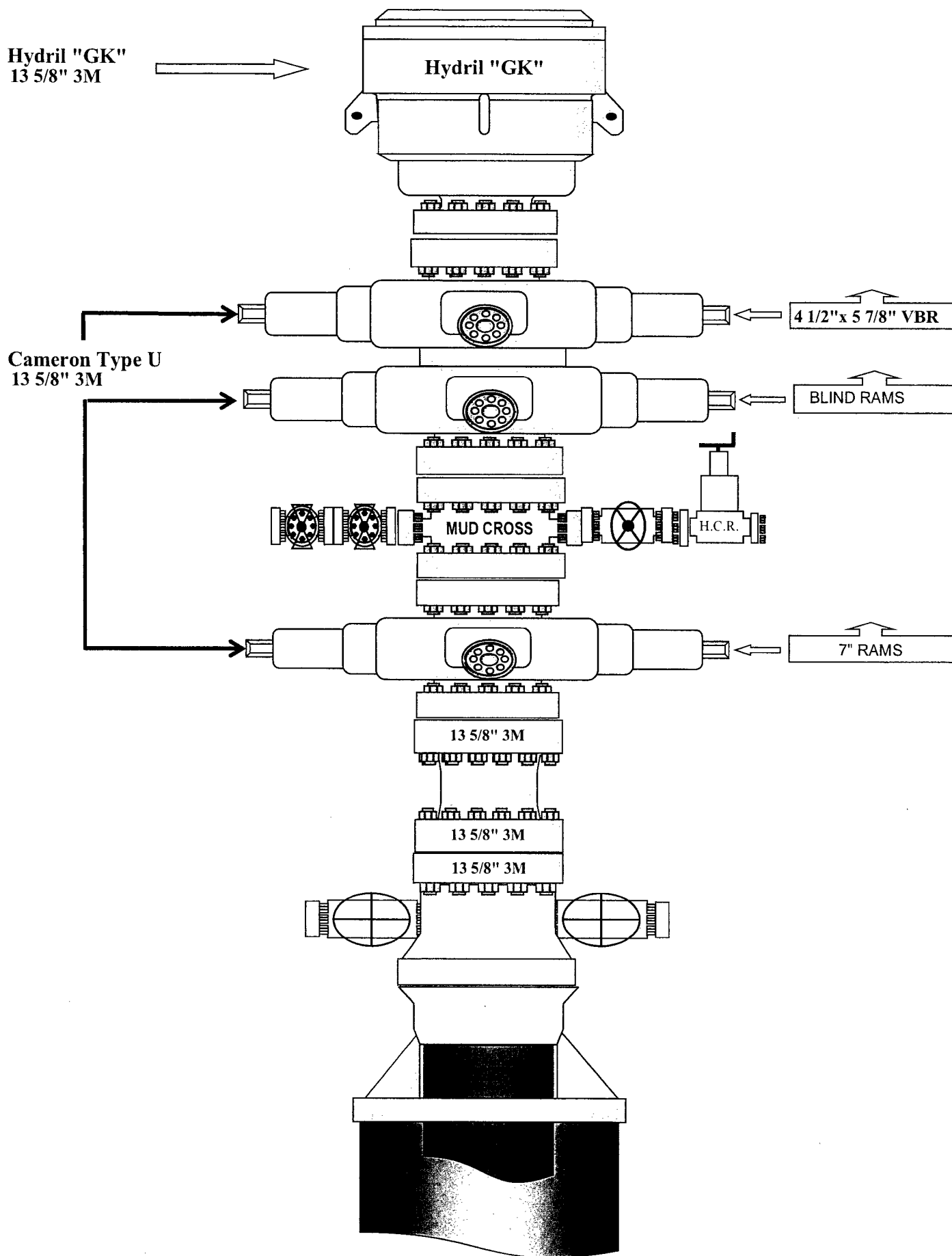
Surface Cement
Lead w/ 200sx (Class 'C' + 10% A11 + 5# sk KOL-SEAL + 1/4#sk CELLOFLAKE)
Tail w/ 550sx (Class 'C' + 2% CAC12)

Production Casing:
Bit: 8 3/4"
7" K-55 26# ST&C
Set @ 7184'

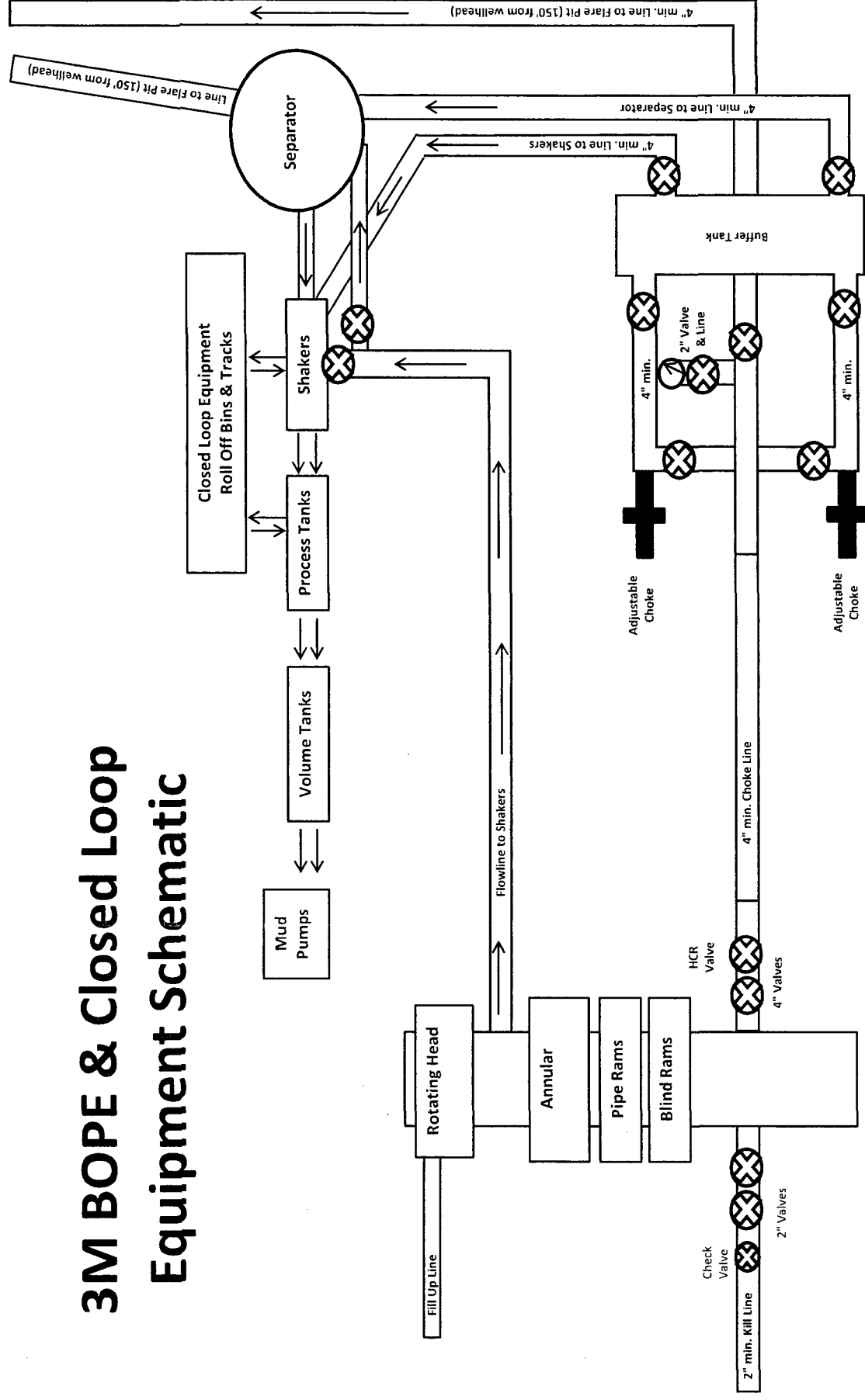
Production Cement:
Stage 1: Lead w/ 300sx <C> w/ 6% GEL-3%SALT-.25#CS-.35%R3
Tail w/ 250sx <C> w/2%KCL-.6% BA10-.5% CD32-.2%SMS-.35%R3
Stage 2: Lead w/ 180sx <C> w/ 6% GEL-3% SALT-.25#CF
Tail w/ 2% KCL-.3%CD32-.2%SMS-.1%ASA 301-1%FL62

Openhole:
OD: 6 1/8"
7184'-7241'

50 sx Class H plug
6924-7184'
Top Cisco Perfs
7184-7241' - producing interval
3000 gals 20%



3M BOPE & Closed Loop Equipment Schematic



Drawing not to scale

Hydrogen Sulfide Drilling Operations Plan
Mewbourne Oil Company

1. General Requirements

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

2. Hydrogen Sulfide Training

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

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

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

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

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

3. Hydrogen Sulfide Safety Equipment and Systems

All hydrogen sulfide safety equipment and systems will be installed, tested, and operational prior to drilling below the ~~9 5/8"~~ ^{7"} intermediate casing.

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

Thirty minute self contained work unit located in the dog house and at briefing areas.

Additionally: If H₂S is encountered in concentrations less than 10 ppm, fans will be placed in work areas to prevent the accumulation of hazardous amounts of poisonous gas. If higher concentrations of H₂S are detected the well will be shut in and a rotating head, mud/gas separator, remote choke 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. If 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
Carlsbad Fire Dept	911 or 575-885-2111
Loco Hills Volunteer Fire Dept.	911 or 575-677-3266
Closest Medical Facility - Columbia Medical Center of Carlsbad	575-492-5000

Mewbourne Oil Company	Hobbs District Office	575-393-5905
	Fax	575-397-6252
	2nd Fax	575-393-7259

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

Mewbourne Oil Company, Bogle Flats Fed Unit 3 Y1KC #1H
Sec 3, T22S, R23E
SL: 1647' FSL & 1651' FWL
BHL: 330' FNL & 1980' FWL

TVD of target	2390'	Pilot hole depth	NA
MD at TD:	5841'	Deepest expected fresh water:	225'

Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Jt Tension	SF Body Tension
	From	To								
6.125"	1825'	5841'	4.5"	13.5	P110	LTC	8.59	9.99	6.23	7.78
BLM Minimum Safety Factor			1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet				

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h
Must have table for contingency casing

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

Mewbourne Oil Company, Bogle Flats Fed Unit 3 Y1KC #1H
Sec 3, T22S, R23E
SL: 1647' FSL & 1651' FWL
BHL: 330' FNL & 1980' FWL

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Liner	330	13.8	1.45	10	10	50/50/10 Poz Class H

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

Casing String	TOC	% Excess
Surface	0'	100%
Production	0'	25%
Liner	1825'	25%

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
6-1/8"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	3000#
			Pipe Ram	X	
			Double Ram		
			Other*		

*Specify if additional ram is utilized.

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

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

Mewbourne Oil Company, Bogle Flats Fed Unit 3 Y1KC #1H
Sec 3, T22S, R23E
SL: 1647' FSL & 1651' FWL
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X	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested. <ul style="list-style-type: none"> Provide description here: See attached schematic.

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
1875	5841	FW Gel	8.4	28-34	N/C

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

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

6. Logging and Testing Procedures

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

Additional logs planned		Interval
X	Gamma Ray	1875' to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Bogle Flats Fed Unit 3 Y1KC #1H
Sec 3, T22S, R23E
SL: 1647' FSL & 1651' FWL
BHL: 330' FNL & 1980' FWL

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	1044 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe.

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

8. Other facets of operation

Is this a walking operation? If yes, describe.

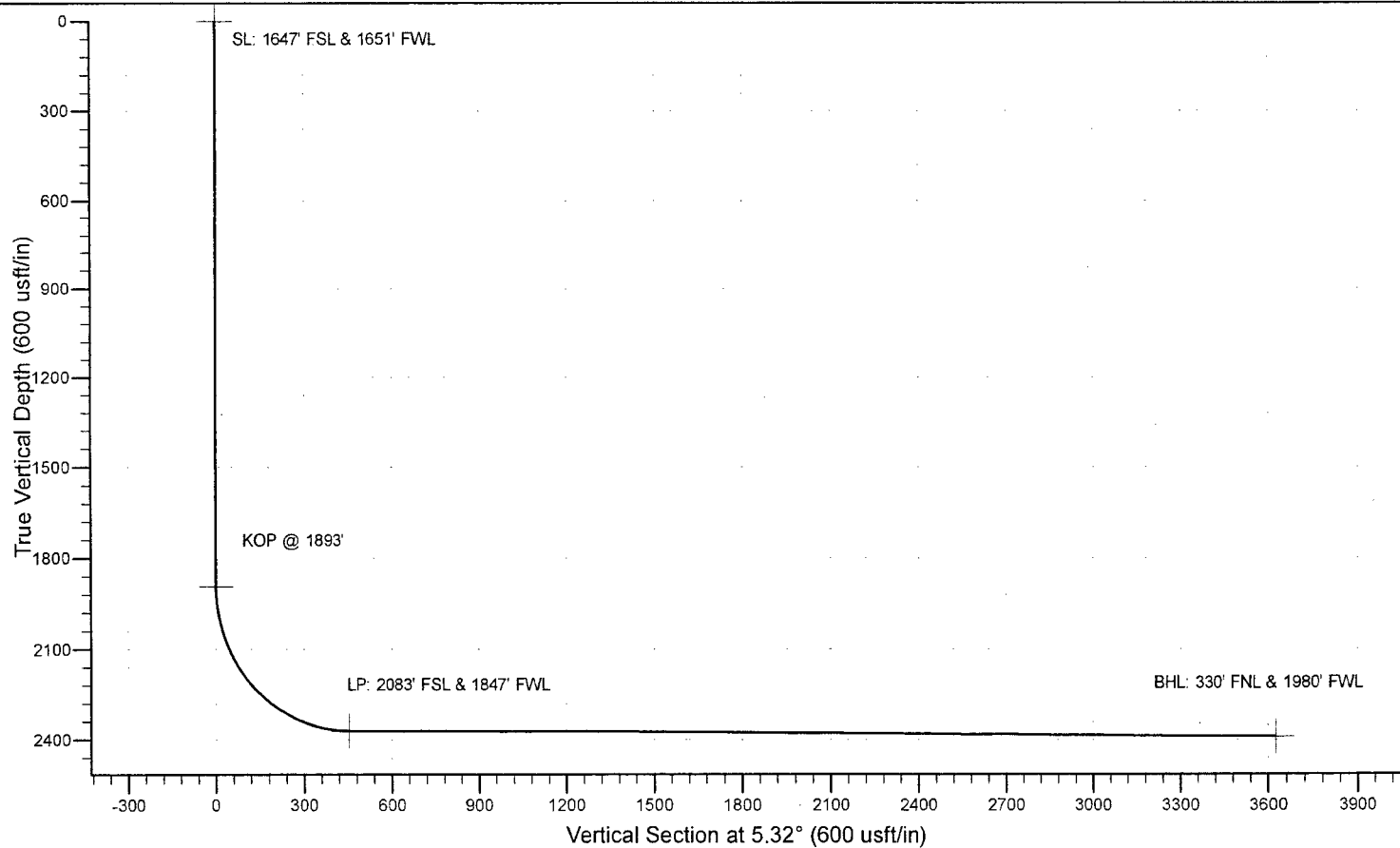
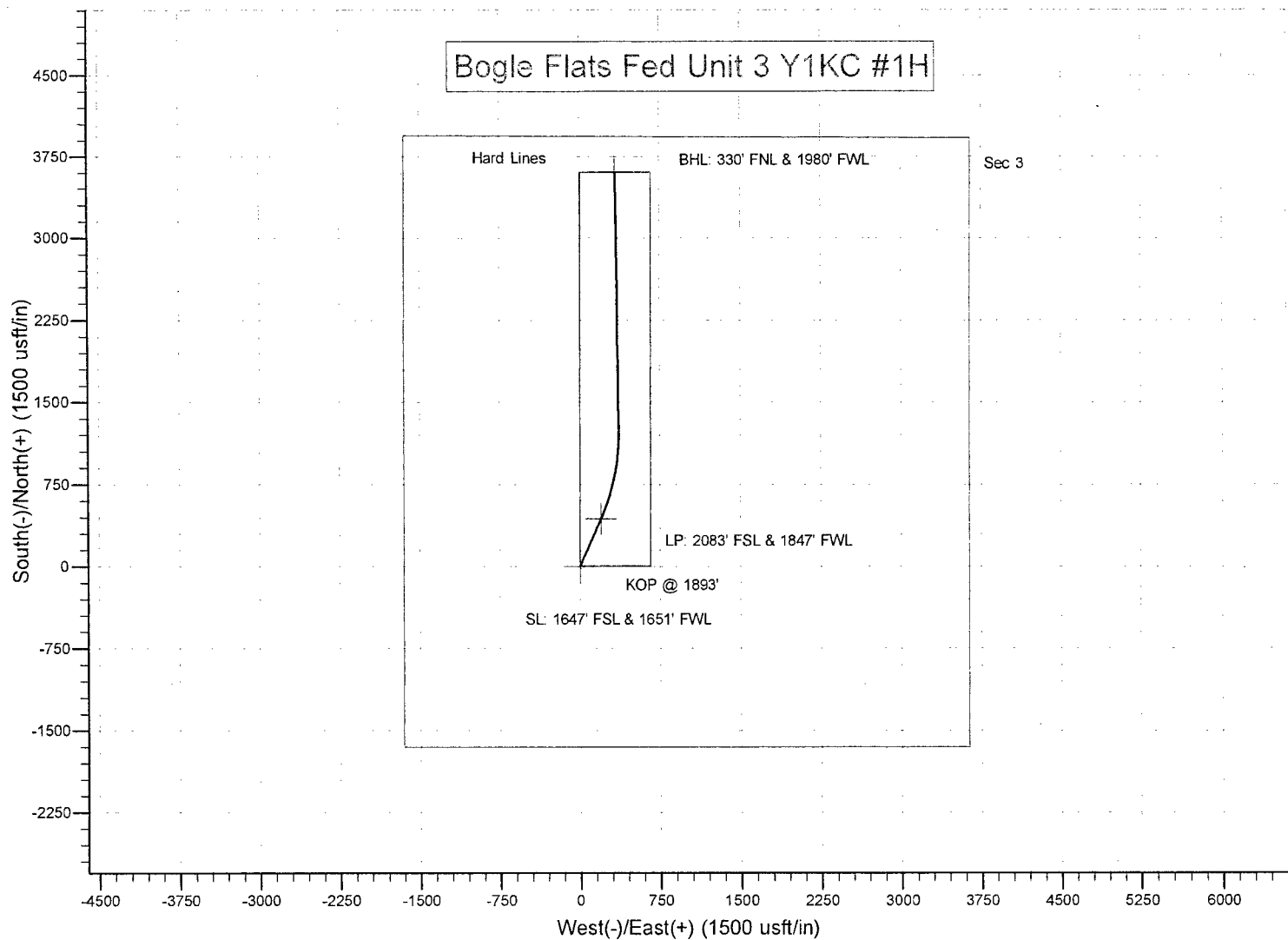
Will be pre-setting casing? If yes, describe.

Attachments

___ Directional Plan

___ Other, describe

Bogle Flats Fed Unit 3 Y1KC #1H



Mewbourne Oil Company

Eddy County, New Mexico NAD 83

Bogle Flats Fed Unit 3 Y1KC #1H

Sec 3, T22S, R23E

SL: 1647' FSL & 1651' FWL

BHL: 330' FNL & 1980' FWL

Plan: Design #1

Standard Planning Report

19 September, 2017

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Bogle Flats Fed Unit 3 Y1KC #1H
Well: Sec 3, T22S, R23E
Wellbore: BHL: 330' FNL & 1980' FWL
Design: Design #1

Local Co-ordinate Reference: Site Bogle Flats Fed Unit 3 Y1KC #1H
TVD Reference: WELL @ 4090.0usft (Original Well Elev)
MD Reference: WELL @ 4090.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Eddy County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Bogle Flats Fed Unit 3 Y1KC #1H			
Site Position:		Northing:	515,578.00 usft	Latitude: 32° 25' 1.655 N
From:	Map	Easting:	461,699.00 usft	Longitude: 104° 35' 29.099 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence: -0.14 °

Well	Sec 3, T22S, R23E			
Well Position	+N/-S	0.0 usft	Northing:	515,578.00 usft
	+E/-W	0.0 usft	Easting:	461,699.00 usft
Position Uncertainty	0.0 usft		Wellhead Elevation:	4,090.0 usft
			Ground Level:	4,063.0 usft

Wellbore	BHL: 330' FNL & 1980' FWL				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	9/18/2017	7.30	60.04	47,994

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	5.32

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,892.5	0.00	0.00	1,892.5	0.0	0.0	0.00	0.00	0.00	0.00	
2,642.6	90.00	24.32	2,370.0	435.1	196.6	12.00	12.00	0.00	24.32	
2,643.5	90.00	24.32	2,370.0	436.0	197.0	0.00	0.00	0.00	0.00	LP: 2083' FSL & 1847
3,478.6	89.60	359.27	2,373.0	1,247.0	366.3	3.00	-0.05	-3.00	-90.94	BHL: 330' FNL & 1980'
5,840.9	89.60	359.27	2,389.5	3,609.0	336.0	0.00	0.00	0.00	0.00	BHL: 330' FNL & 1980'

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Bogle Flats Fed Unit 3 Y1KC #1H
Well: Sec 3, T22S, R23E
Wellbore: BHL: 330' FNL & 1980' FWL
Design: Design #1

Local Co-ordinate Reference: Site Bogle Flats Fed Unit 3 Y1KC #1H
TVD Reference: WELL @ 4090.0usft (Original Well Elev)
MD Reference: WELL @ 4090.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
SL: 1647' FSL & 1651' FWL									
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,892.5	0.00	0.00	1,892.5	0.0	0.0	0.0	0.00	0.00	0.00
KOP @ 1893'									
1,900.0	0.90	24.32	1,900.0	0.1	0.0	0.1	12.06	12.06	0.00
2,000.0	12.90	24.32	1,999.1	11.0	5.0	11.4	12.00	12.00	0.00
2,100.0	24.90	24.32	2,093.5	40.4	18.3	42.0	12.00	12.00	0.00
2,200.0	36.90	24.32	2,179.2	87.2	39.4	90.4	12.00	12.00	0.00
2,300.0	48.90	24.32	2,252.3	149.1	67.4	154.7	12.00	12.00	0.00
2,400.0	60.90	24.32	2,309.7	223.5	101.0	231.9	12.00	12.00	0.00
2,500.0	72.89	24.32	2,348.9	307.2	138.8	318.7	12.00	12.00	0.00
2,600.0	84.89	24.32	2,368.1	396.4	179.1	411.3	12.00	12.00	0.00
2,642.6	90.00	24.32	2,370.0	435.1	196.6	451.5	12.00	12.00	0.00
2,643.5	90.00	24.32	2,370.0	436.0	197.0	452.4	0.00	0.00	0.00
LP: 2083' FSL & 1847' FWL									
2,700.0	89.97	22.62	2,370.0	487.8	219.5	506.1	3.00	-0.05	-3.00
2,800.0	89.92	19.62	2,370.1	581.1	255.5	602.3	3.00	-0.05	-3.00
2,900.0	89.87	16.62	2,370.3	676.1	286.6	699.8	3.00	-0.05	-3.00
3,000.0	89.82	13.62	2,370.5	772.7	312.7	798.3	3.00	-0.05	-3.00
3,100.0	89.78	10.62	2,370.9	870.4	333.7	897.6	3.00	-0.05	-3.00
3,200.0	89.73	7.62	2,371.3	969.1	349.6	997.4	3.00	-0.05	-3.00
3,300.0	89.68	4.62	2,371.8	1,068.6	360.2	1,097.3	3.00	-0.05	-3.00
3,400.0	89.64	1.62	2,372.4	1,168.4	365.7	1,197.3	3.00	-0.05	-3.00
3,478.6	89.60	359.27	2,373.0	1,247.0	366.3	1,275.5	3.00	-0.05	-3.00
3,500.0	89.60	359.27	2,373.1	1,268.4	366.0	1,296.8	0.00	0.00	0.00
3,600.0	89.60	359.27	2,373.8	1,368.4	364.7	1,396.3	0.00	0.00	0.00
3,700.0	89.60	359.27	2,374.5	1,468.4	363.4	1,495.7	0.00	0.00	0.00
3,800.0	89.60	359.27	2,375.2	1,568.3	362.2	1,595.2	0.00	0.00	0.00
3,900.0	89.60	359.27	2,375.9	1,668.3	360.9	1,694.6	0.00	0.00	0.00
4,000.0	89.60	359.27	2,376.6	1,768.3	359.6	1,794.0	0.00	0.00	0.00
4,100.0	89.60	359.27	2,377.3	1,868.3	358.3	1,893.5	0.00	0.00	0.00
4,200.0	89.60	359.27	2,378.0	1,968.3	357.0	1,992.9	0.00	0.00	0.00
4,300.0	89.60	359.27	2,378.7	2,068.3	355.8	2,092.4	0.00	0.00	0.00
4,400.0	89.60	359.27	2,379.4	2,168.3	354.5	2,191.8	0.00	0.00	0.00
4,500.0	89.60	359.27	2,380.1	2,268.3	353.2	2,291.2	0.00	0.00	0.00

Planning Report

Database: Hobbs
Company: Mewbourne Oil Company
Project: Eddy County, New Mexico NAD 83
Site: Bogle Flats Fed Unit 3 Y1KC #1H
Well: Sec 3, T22S, R23E
Wellbore: BHL: 330' FNL & 1980' FWL
Design: Design #1

Local Co-ordinate Reference: Site Bogle Flats Fed Unit 3 Y1KC #1H
TVD Reference: WELL @ 4090.0usft (Original Well Elev)
MD Reference: WELL @ 4090.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	89.60	359.27	2,380.8	2,368.3	351.9	2,390.7	0.00	0.00	0.00
4,700.0	89.60	359.27	2,381.5	2,468.3	350.6	2,490.1	0.00	0.00	0.00
4,800.0	89.60	359.27	2,382.2	2,568.2	349.3	2,589.6	0.00	0.00	0.00
4,900.0	89.60	359.27	2,382.9	2,668.2	348.1	2,689.0	0.00	0.00	0.00
5,000.0	89.60	359.27	2,383.6	2,768.2	346.8	2,788.4	0.00	0.00	0.00
5,100.0	89.60	359.27	2,384.3	2,868.2	345.5	2,887.9	0.00	0.00	0.00
5,200.0	89.60	359.27	2,385.0	2,968.2	344.2	2,987.3	0.00	0.00	0.00
5,300.0	89.60	359.27	2,385.7	3,068.2	342.9	3,086.8	0.00	0.00	0.00
5,400.0	89.60	359.27	2,386.4	3,168.2	341.7	3,186.2	0.00	0.00	0.00
5,500.0	89.60	359.27	2,387.1	3,268.2	340.4	3,285.6	0.00	0.00	0.00
5,600.0	89.60	359.27	2,387.8	3,368.2	339.1	3,385.1	0.00	0.00	0.00
5,700.0	89.60	359.27	2,388.5	3,468.1	337.8	3,484.5	0.00	0.00	0.00
5,800.0	89.60	359.27	2,389.2	3,568.1	336.5	3,584.0	0.00	0.00	0.00
5,840.9	89.60	359.27	2,389.5	3,609.0	336.0	3,624.6	0.00	0.00	0.00

BHL: 330' FNL & 1980' FWL

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SL: 1647' FSL & 1651' F - plan hits target center - Point	0.00	360.00	0.0	0.0	0.0	515,578.00	461,699.00	32° 25' 1.655 N	104° 35' 29.099 W
KOP @ 1893' - plan hits target center - Point	0.00	360.00	1,892.5	0.0	0.0	515,578.00	461,699.00	32° 25' 1.655 N	104° 35' 29.099 W
LP: 2083' FSL & 1847' F - plan hits target center - Point	0.00	360.00	2,370.0	436.0	197.0	516,014.00	461,896.00	32° 25' 5.975 N	104° 35' 26.813 W
BHL: 330' FNL & 1980' F - plan misses target center by 0.5usft at 5840.9usft MD (2389.5 TVD, 3609.0 N, 336.0 E) - Point	0.00	0.00	2,390.0	3,609.0	336.0	519,187.00	462,035.00	32° 25' 37.377 N	104° 35' 25.281 W

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-29228	² Pool Code	³ Pool Name WILDCAT YESO
⁴ Property Code	⁵ Property Name BOGLE FLATS FEDERAL UNIT 3 Y1KC	⁶ Well Number 1H
⁷ OGRID NO. 14744	⁸ Operator Name MEWBOURNE OIL COMPANY	⁹ Elevation 4063'

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet From the	East/West line	County
K	3	22S	23E		1647	SOUTH	1651	WEST	EDDY

¹¹ Bottom Hole Location If Different From Surface

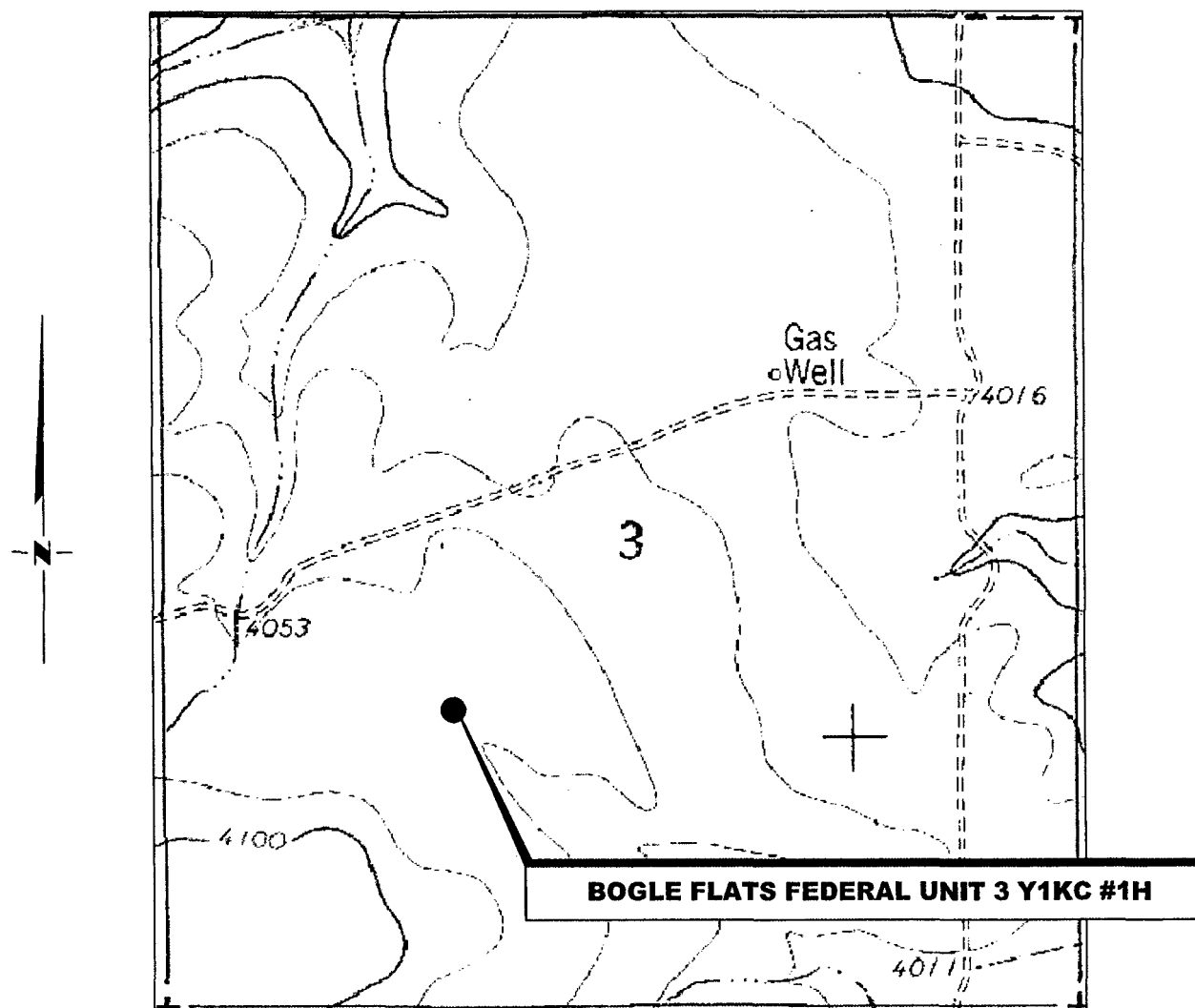
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North South line	Feet from the	East/West line	County
3	3	22S	23E		330	NORTH	1980	WEST	EDDY

¹² Dedicated Acres 129.39	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

<p>¹⁶ (C) S 89°45'14" E 2652.70' 330'</p> <p>LOT 4 49.58 Ac.</p> <p>LOT 3 49.59 Ac.</p> <p>1980'</p> <p>1651'</p> <p>1647'</p> <p>S 89°58'26" W 2642.72'</p> <p>(A) S 00°07'02" W 2637.66'</p> <p>(B) N 00°07'17" E 2958.88'</p>	<p>(D) S 89°44'35" E 2635.89'</p> <p>GEODETIC DATA NAD 83 GRID - NM EAST</p> <p>SURFACE LOCATION N 515577.8 - E 461698.5 LAT: 32.4171261° N LONG: 104.5914182° W</p> <p>BOTTOM HOLE N 519186.8 - E 462035.1 LAT: 32.4270486° N LONG: 104.5903556° W</p> <p>CORNER DATA NAD 83 GRID - NM EAST</p> <p>A: FOUND BRASS CAP "1932" N 513930.2 - E 460044.7</p> <p>B: FOUND BRASS CAP "1932" N 516567.1 - E 460050.0</p> <p>C: FOUND BRASS CAP "1932" N 519525.2 - E 460056.3</p> <p>D: FOUND BRASS CAP "1932" N 519513.8 - E 462708.3</p> <p>E: FOUND BRASS CAP "1932" N 519502.0 - E 465343.4</p> <p>F: FOUND BRASS CAP "1932" N 516569.8 - E 465336.3</p> <p>G: FOUND BRASS CAP "1932" N 513928.3 - E 465329.8</p> <p>F: FOUND BRASS CAP "1932" N 513931.4 - E 462686.7</p> <p>(H) S 89°55'55" E 2643.83'</p>	<p>¹⁷ 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.</p> <p>Signature _____ Date 9-20-17</p> <p>BRADLEY BISHOP Printed Name</p> <p>BBISHOP@MEWBOURNE.COM E-mail Address</p> <p>¹⁸ 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.</p> <p>8-29-2017 Date of Survey</p> <p>Signature and Seal of Professional Surveyor _____</p> <p>19680 Certificate Number</p> <p>ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR</p>
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LOCATION VERIFICATION MAP



*SECTION 3, TWP. 22 SOUTH, RGE. 23 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: Mewbourne Oil Company
LEASE: Bogle Flats Federal Unit 3 Y1KC
WELL NO.: 1H
ELEVATION: 4063'

LOCATION: 1647' FSL & 1651' FWL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Martha Creek, NM (1978)

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NO.	REVISION	DATE
JOB NO.:	LS1708511	
DWG. NO.:	1708511LVM	

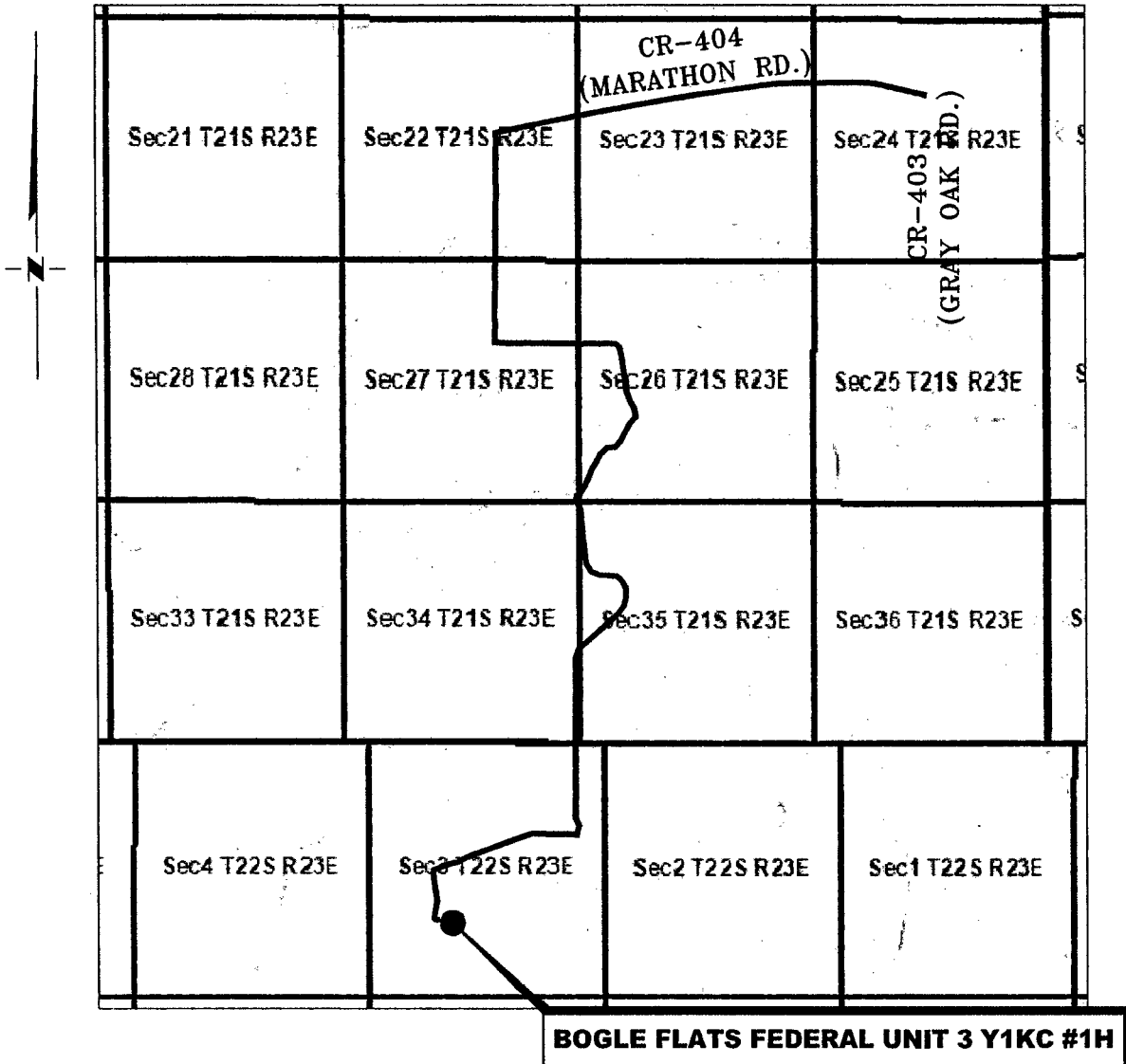
RRC

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

SCALE: 1" = 1000'
DATE: 8-29-2017
SURVEYED BY: JF/ML
DRAWN BY: LPS
APPROVED BY: RMH
SHEET: 1 OF 1

VICINITY MAP

NOT TO SCALE



*SECTION 3, TWP. 22 SOUTH, RGE. 23 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO*

OPERATOR: Mewbourne Oil Company
LEASE: Bogle Flats Federal Unit 3 Y1KC
WELL NO.: 1H

LOCATION: 1647' FSL & 1651' FWL
ELEVATION: 4063'

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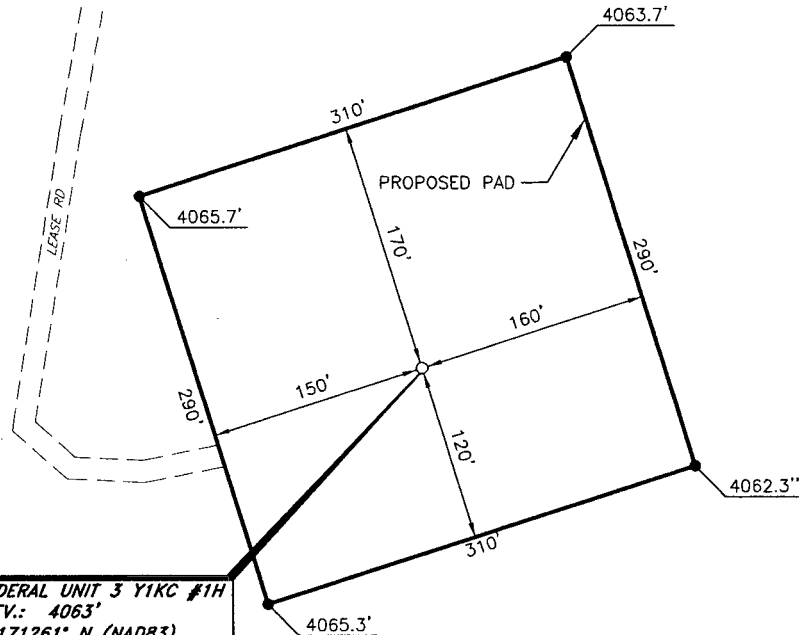
NO.	REVISION	DATE
JOB NO.: LS1708511		
DWG. NO.: 1708511VM		

RRC

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

SCALE: N. T. S.
DATE: 8-29-2017
SURVEYED BY: JF/ML
DRAWN BY: LPS
APPROVED BY: RMH
SHEET: 1 OF 1

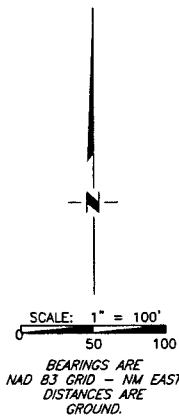
MEWBOURNE OIL COMPANY
BOGLE FLATS FEDERAL UNIT 3 Y1KC #1H
(1647' FSL & 1651' FWL)
SECTION 3, T22S, R23E
N. M. P. M., EDDY CO., NEW MEXICO



BOGLE FLATS FEDERAL UNIT 3 Y1KC #1H
ELEV.: 4063'
LAT: 32.4171261° N (NAD83)
LONG: 104.5914182° W (NAD83)

DIRECTIONS TO LOCATION

From the intersection of CR-404 (Marathon Rd.) and CR-403 (Gray Oak Rd.);
Go East on CR-404 approx. 1.9 miles to a lease road on the left;
Turn left and go South approx. 0.9 miles to a lease road on the left;
Turn left and go East approx. 0.5 miles to a lease road on the right;
Turn right and go Southerly approx. 2.4 miles to a lease road on the right;
Turn right and go West approx. 0.6 miles to a lease road on the left;
Turn left and go South approx. 0.2 miles to location on the left.



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

Robert M. Howett
 Robert M. Howett NM PS 19680



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NO.	REVISION	DATE
JOB NO.:	LS1708511	
DWG. NO.:	4-1708511	

RRC

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

SCALE:	1" = 100'
DATE:	8-29-2017
SURVEYED BY:	JF/ML
DRAWN BY:	LPS
APPROVED BY:	RMH
SHEET:	1 OF 1

Plugback Operation - Conditions of Approval

**Mewbourne Oil Company
Bogle Flats - 10, API 3001529228
T22S-R23E, Sec xx, 1650FSL & 1650FWL
December 11, 2017**

1. **Begin wellbore operations within 90 days of these conditions of approval for the processed Electronic Submission #389100 notice of intent or request an extension.**
2. **Operator is required to have the BLM approved NOI procedure with applicable conditions of approval on location during this workover operation.**
3. The communization agreement for this well (NM71139) does not include the Yeso pay. Amendments to that agreement may be necessary. Operator is removing well from the unitized formation. Operator shall remove "Unit" from the well name via sundry, and or rename well to be produced on a lease basis.
4. A NMOCD Form C-102 "Well Location and Acreage Dedication Plat" with updated information is necessary when recompletion changes a well's Pool designation.
5. Before casing or a liner added, replaced, or repaired prior BLM approval of the design is required. Use notice of intent Form 3160-5.
6. Subject to like approval by the New Mexico Oil Conservation Division.
7. Notify BLM 575-361-2822 Eddy Co. as work begins. Some procedures are witnessed. If there is no response, leave a voice mail with the API#, workover purpose, and a call back phone number.
8. Surface disturbance beyond the existing pad must have prior approval.
9. A closed loop system is required. The operator shall properly dispose of drilling/circulating contents at an authorized disposal site. Tanks are required for all operations, no excavated pits.
10. Functional H₂S monitoring equipment shall be on location.
11. Blow Out Prevention Equipment 3000 (3M) to be used. All BOPE and workover procedures shall establish fail safe well control. Ram(s) for the work string(s) used is required equipment. Manual BOP closure system including a blind ram and pipe ram(s) designed to close on all (hand wheels) equipment installed regardless of BOP design. Function test the installed BOPE to 500psig when well conditions allow. Related equipment, (choke manifolds, kill trucks, gas vent or flare lines, etc.) employed when needed for reasonable well control requirements.
12. All waste (i.e. trash, salts, chemicals, sewage, gray water, etc.) created during work over 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.

13. The BLM PET witness is to run tbg tally and agree to cement volumes and placement.
Sample each plug for cement curing time and tag and/or pressure test as requested by BLM PET witness.
- 14. This procedure is subject to the next three numbered paragraphs.**
15. Set cement plugs to cover a minimum of 100ft plus 10ft for every 1,000ft from the bottom of the plug, rounding the number of necessary sacks up to the nearest 5 sacks. Never use less than 25sx. Examples: A cement plug set at 8000 in 7" casing would require a min of 35sx. A 25sx plug in 5 ½" casing should cover 250ft, which may exceed 100ft plus 10ft per 1000ft.
16. Class H > 7500ft & C < 7500ft) cement plugs(s) will be necessary. For any plug that requires a tag or pressure test a minimum WOC time of 4 hours(C) & 8 hours(H) is recommended. Formation isolation plugs of Class "C" to be mixed 14.8#/gal, 1.32 ft³/sx, 6.3gal/sx water and "H" to be mixed 16.4#/gal, 1.06ft³/sx, 4.3gal/sx water. w
17. Minimum requirement for mud placed between plugs is 25 sacks of salt water gel per 100 barrels in 9 lb/gal brine.
- 18. These Conditions of Approval reflect a procedure based on available documentation for this wellbore. The BLM workover witness and NOI approver may adjust operations so as not to hinder achievable abandonment requirements.**
- 19. Clean open hole to the 7241MTD.**
20. Set a min 65sx balanced "C" cmt plug from 7241' or below across the Penn formation top. WOC, and tag the plug with tbg at 7060' or above.
21. Perform a charted casing integrity test of 500psig minimum. Document the pressure test on a one hour full rotation calibrated (within 6 months) recorder chart registering within 35 to 85 per cent of its full range. Verify all annular casing vents plumbed to the surface and open during this pressure test. Attach a scan of the chart to a pswartz@blm.gov email.
22. Record a cement bond log with 0psig casing pressure from 7000' or below. Attach the CBL to a pswartz@blm.gov email. **Locate the DV Tool (requires a balanced cmt plug) and TOC from the CBL.** Lack of cmt bond at required plug depths may show the need for perf and sqz operations.
23. Set a min 30sx balanced "C" cmt plug from 6500' or below across the Wolfcamp formation top. WOC, and tag the plug with tbg at 6325' or above.
24. Set a min 30sx balanced "C" cmt plug from 3600' or below across the Bone Spring formation top. WOC, and tag the plug with tbg at 3340' or above.
25. Set a min 55sx balanced "C" cmt plug from 2200' or below across the Glorieta and Yeso formation tops. WOC, and tag the plug with tbg at 1860' or above.
26. File intermediate subsequent sundry Form 3160-5 within 30 days of any interrupted workover procedures and a complete workover subsequent sundry.
27. Submit the BLM Form 3160-4 **Recompletion Report** within 30 days of the date all BLM approved procedures are complete.
28. An inactive/shut-in well bore is a non-producing completion that is capable of "beneficial use" i.e. production in **paying quantities** or of service use. Should "beneficial use" not be achieved submit for BLM approval a plan for plug and abandonment.

Operator: Mewbourne Oil Company
Surface Lease: NM045273 BHL: NM045273
Case No: NM045273 Lease Agreement
Subsurface Concerns for Casing Designs: HiCvKst
Well Status: PGW
Spud date: 1/12/1997
Plug'd Date:
Reentry Date:

Well: BOGLE FLATS UNIT GAS COM-10
API: 3001529228
@ Srfce: T22S-R23E,03.1650s1650w
@ MTD: T22S-R23E,03.1650s1650w
Estate: F\F\F
CWDW, R of W:
OCD Admn Order, date:
Frmtn, Depths, psig:

KB: 4063
GL: 4063
Corr: 0

