

OCD Hobbs

HOBBS OCD

JUL 20 2016

RECEIVED

ATS-15-354

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NM-0127A & Fee	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name	
2. Name of Operator Mewbourne Oil Company (14724)		7. If Unit or CA Agreement, Name and No. (716523)	
3a. Address PO Box 5270 Hobbs, NM 88241		8. Lease Name and Well No. Salado Draw 9 W1DM Fed Com #2H	
3b. Phone No. (include area code) 575-393-5905		9. API Well No. 30-025-43376	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 320' FNL & 500' FWL, Sec. 9 T26S R33E At proposed prod. zone 330' FSL & 500' FWL, Sec. 9 T26S R33E		10. Field and Pool, or Exploratory Red Hills Wolfcamp Gas (83600) K-2	
14. Distance in miles and direction from nearest town or post office* 24 miles SW of Jal, NM		11. Sec., T. R. M. or Blk. and Survey or Area Sec. 9 T26S R33E	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 320'		12. County or Parish Lea	
16. No. of acres in lease 320 acres		13. State NM	
17. Spacing Unit dedicated to this well 320			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 170' - Salado Draw 9 DM Fed Com #1H		20. BLM/BIA Bond No. on file NM1693 nationwide, NMB-000919	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3325' - GL		22. Approximate date work will start* 03/20/2015	
		23. Estimated duration 60 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 <i>Bradley Bishop</i>	Name (Printed/Typed) Bradley Bishop	Date 01/20/2015
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Title

Approved by (Signature) <i>Cody Layton</i>	Name (Printed/Typed) Cody Layton	Date JUL 20 2016
Title FIELD MANAGER	Office CARLSBAD FIELD 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.

Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent

See attached NMOCD
Conditions of Approval

and willfully to make to any department or agency of the United States.

(Continued on page 2)

*(Instructions on page 2)

Carlsbad Controlled Water Basin

K-2 7/21/16

Approval Subject to General Requirements
& Special Stipulations Attached

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Mewbourne Oil Co, Salado Draw 9 W1DM Fed Com 2H
Sec 9, T26S, R33E
SL: 320' FNL & 500' FWL
BHL: 330' FSL & 500' FWL

1. Geologic Formations

TVD of target	12495'	Pilot hole depth	NA
MD at TD:	16876'	Deepest expected fresh water:	150

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	800	Water	
Top of Salt	1190	Salt	
Base of Salt/Castile	4640	Barren	
Delaware (Lamar)	4870	Oil/Gas	
Manzanita Marker	6160		
Bone Spring	8980	Oil/Gas	
2 nd Bone Spring			
Wolfcamp	12000	Target Zone	
Canyon			
Strawn			
Atoka			
Morrow			
Barnett Shale			
Woodford Shale			
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

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2. Casing Program

See CGA

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	850' 970'	13.375"	48	H40	STC	1.67	3.91	7.89
12.25"	0'	3400'	9.625"	36	J55	LTC	1.14	1.99	2.56
12.25"	3400'	4350'	9.625"	40	J55	LTC	1.14	1.75	9.49
12.25"	4350'	4770'	9.625"	40	N80	LTC	1.25	2.32	5.22
8.75"	0'	11922'	7"	26	HCP110	LTC	1.26	1.61	2.24
8.75"	11922'	12822'	7"	26	HCP110	BTC	1.20	1.53	35.47
6.125"	11922'	16876'	4.5"	13.5	P110	LTC	1.65	1.91	5.04
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

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

Must have table for contingency casing

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? 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 intermediate 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?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf	430	12.5	2.12	11	10	Lead: Class C + 4.0% Bentonite + 0.6% CD-32 + 5% Sodium Chloride +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Class C + 0.005pps Static Free + 1% CaCl ₂ + 0.25 pps CelloFlake + 0.005 gps FP-6L
Inter.	755	12.5	2.12	11	10	Lead: Class C (35:65:4) + 5% Sodium Chloride +5#/sk LCM +0.25lb/sk Cello-Flake
	200	14.8	1.34	6.3	8	Tail: Class C + 0.25 lb/sk Cello Flake + 0.005 lb/sk Static Free
Prod.	915	12	2.12	11	10	Lead: Class C (60:40:0)+3% Sodium Chloride+5#/sk LCM+0.7% Sodium Metasilicate+0.3% FL52A+6%MPA5
	400	15.6	1.18	5.2	12	Tail: Class H+0.1%R3+0.3%FL52A
Liner	200	11.2	2.97	18	16	Class C (60:40:0)+4% MPA5+1.2% BA10A+10#/sk BA90+5%A10+0.65%ASA301+1.5%SMS+1.2%R21

DV tool depth(s) will be adjusted based on hole conditions and cement volumes will be adjusted proportionally. DV tool will be set a minimum of 50 feet below previous casing and a minimum of 200 feet above current shoe. Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	100%
Intermediate	0'	25%
Production	4570'	25%
Liner	11922'	25%

Mewbourne Oil Co, Salado Draw 9 W1DM Fed Com 2H
Sec 9, T26S, R33E
SL: 320' FNL & 500' FWL
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4. Pressure Control Equipment

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BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram	X	
			Pipe Ram	X	
			Double Ram		
			Other*		
8-3/4"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	10000#
			Pipe Ram	X	
			Double Ram		
			Other*		
6-1/8"	13-5/8"	10M	Annular	X	5000#
			Blind Ram	X	10000#
			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.

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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.
Y / N	Are anchors required by manufacturer?
N	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 <p>See attached schematic.</p>

5. Mud Program

See COA
910

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	850 910	FW Gel	8.6-8.8	28-34	N/C
850	4770	Saturated Brine	10.0-10.2	28-34	N/C
4770	11922	Cut Brine	8.5-9.3	28-34	N/C
11922	16876	OBM	8.5-12	30-40	<10cc

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/PVT/Pason
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Mewbourne Oil Co, Salado Draw 9 W1DM Fed Com 2H
Sec 9, T26S, R33E
SL: 320' FNL & 500' FWL
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11922) to surface. 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	From KOP (11922) to TD
Density	
CBL	
Mud log	
PEX	

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	7797 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. **Lost circulation material/sweeps/mud scavengers.**

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.

X	H ₂ S is present
	H ₂ S Plan attached

See
CWA

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

Notes Regarding Blowout Preventer

Mewbourne Oil Company

Salado Draw 9 W1DM Federal Com #2H

320' FNL & 500' FWL (SHL)

Sec 9-T26S-R33E

Lea County, New Mexico

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

Hydril "GK"
13-5/8" 10M



Hydril "GK"

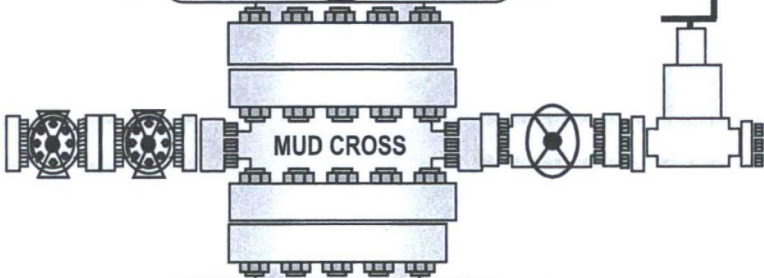
Cameron Type U
13-5/8" 10M



4 1/2" x 5 7/8" VBR



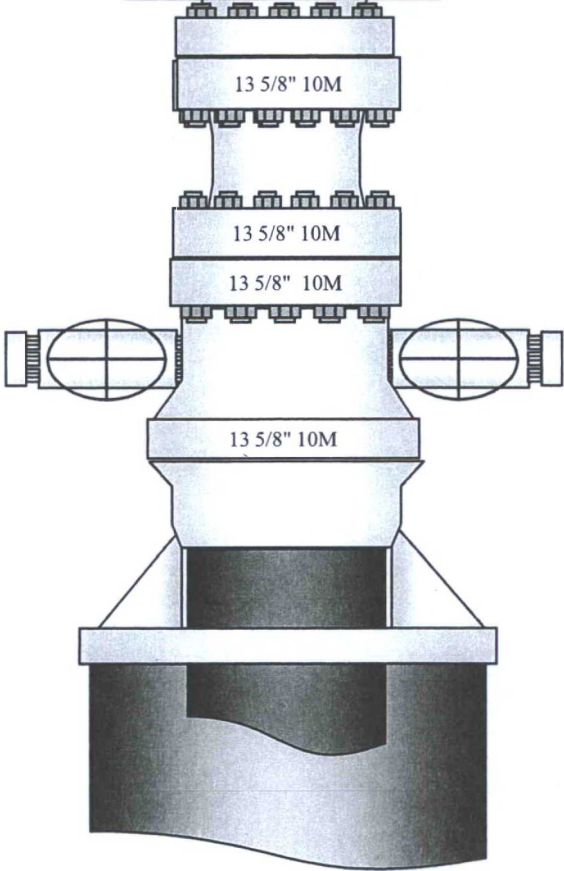
BLIND RAMS



MUD CROSS



4 1/2" x 5 7/8" VBR



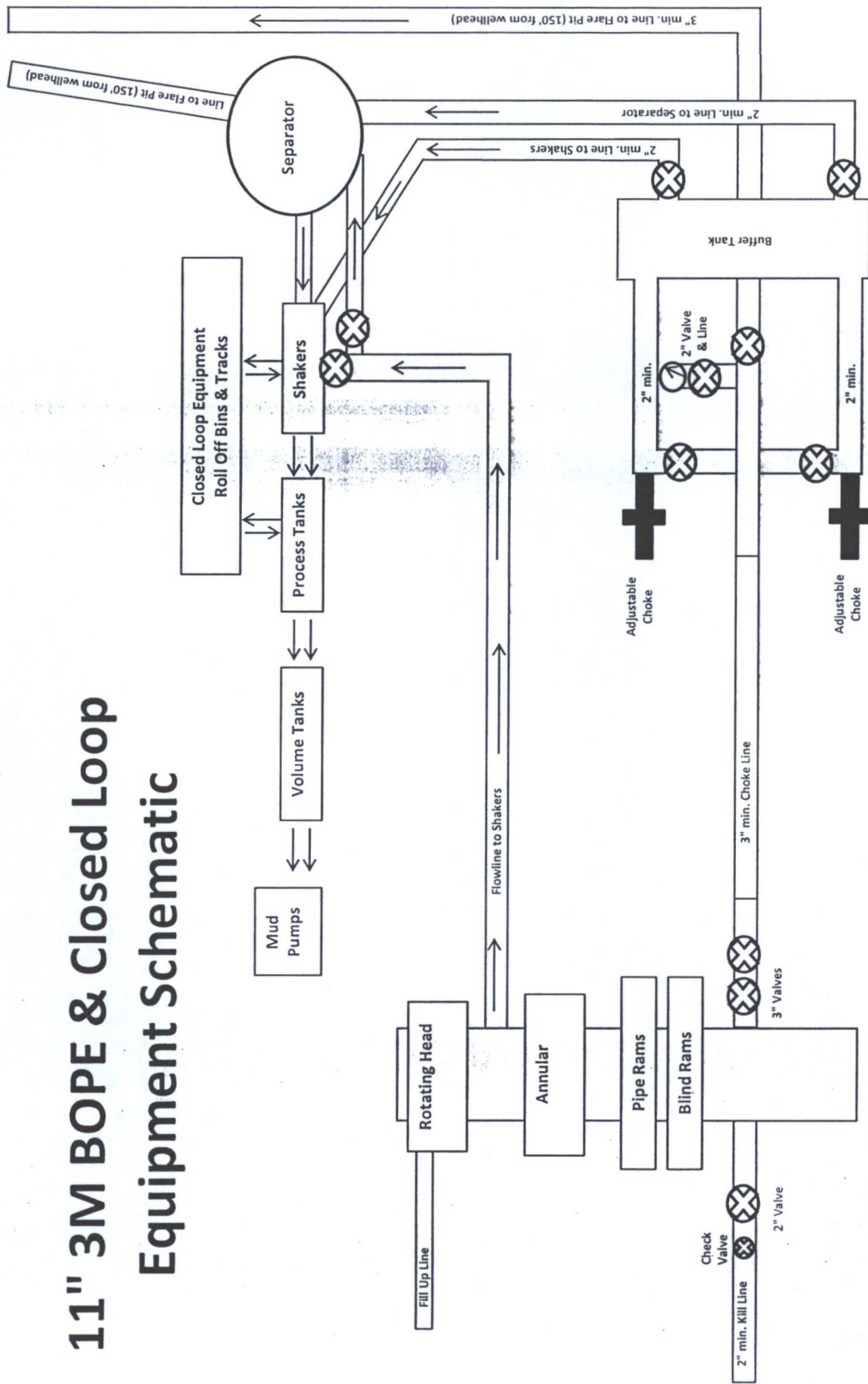
13 5/8" 10M

13 5/8" 10M

13 5/8" 10M

13 5/8" 10M

11" 3M BOPE & Closed Loop Equipment Schematic



Note: All valves & lines on choke manifold are 3" unless otherwise noted. Exact manifold configuration may vary.

Exhibit "2"
Salado Draw 9 W1DM Fed Com #2H

13 5/8" 10M BOPE & Closed Loop Equipment Schematic

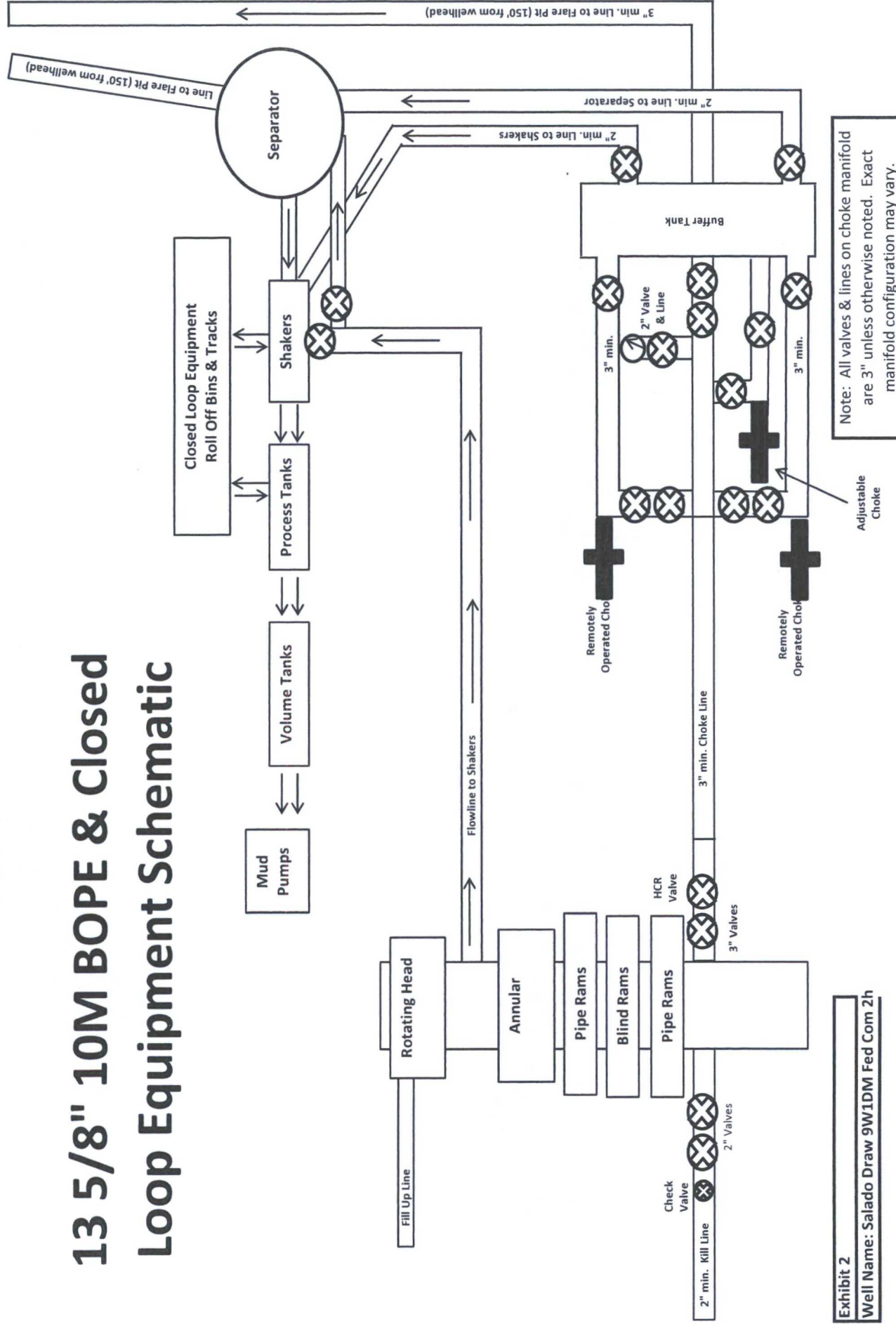


Exhibit 2
Well Name: Salado Draw 9W1DM Fed Com 2h



GATES E & S NORTH AMERICA, INC.
134 44TH STREET
CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: Tim.Cantu@gates.com
WEB: www.gates.com

10K CEMENTING ASSEMBLY PRESSURE TEST CERTIFICATE

Customer :	AUSTIN DISTRIBUTING	Test Date:	4/30/2015
Customer Ref. :	4060578	Hose Serial No.:	D-043015-7
Invoice No. :	500506	Created By:	JUSTIN CROPPER

Product Description: 10K3.548.0CK4.1/1610KFLGE/E LE

End Fitting 1 :	4 1/16 10K FLG	End Fitting 2 :	4 1/16 10K FLG
Gates Part No. :	4773-6290	Assembly Code :	L36554102914D-043015-7
Working Pressure :	10,000 PSI	Test Pressure :	15,000 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 15,000 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality Manager :

Date :

Signature :

QUALITY
4/30/2015
<i>Justin Cropper</i>

Production:

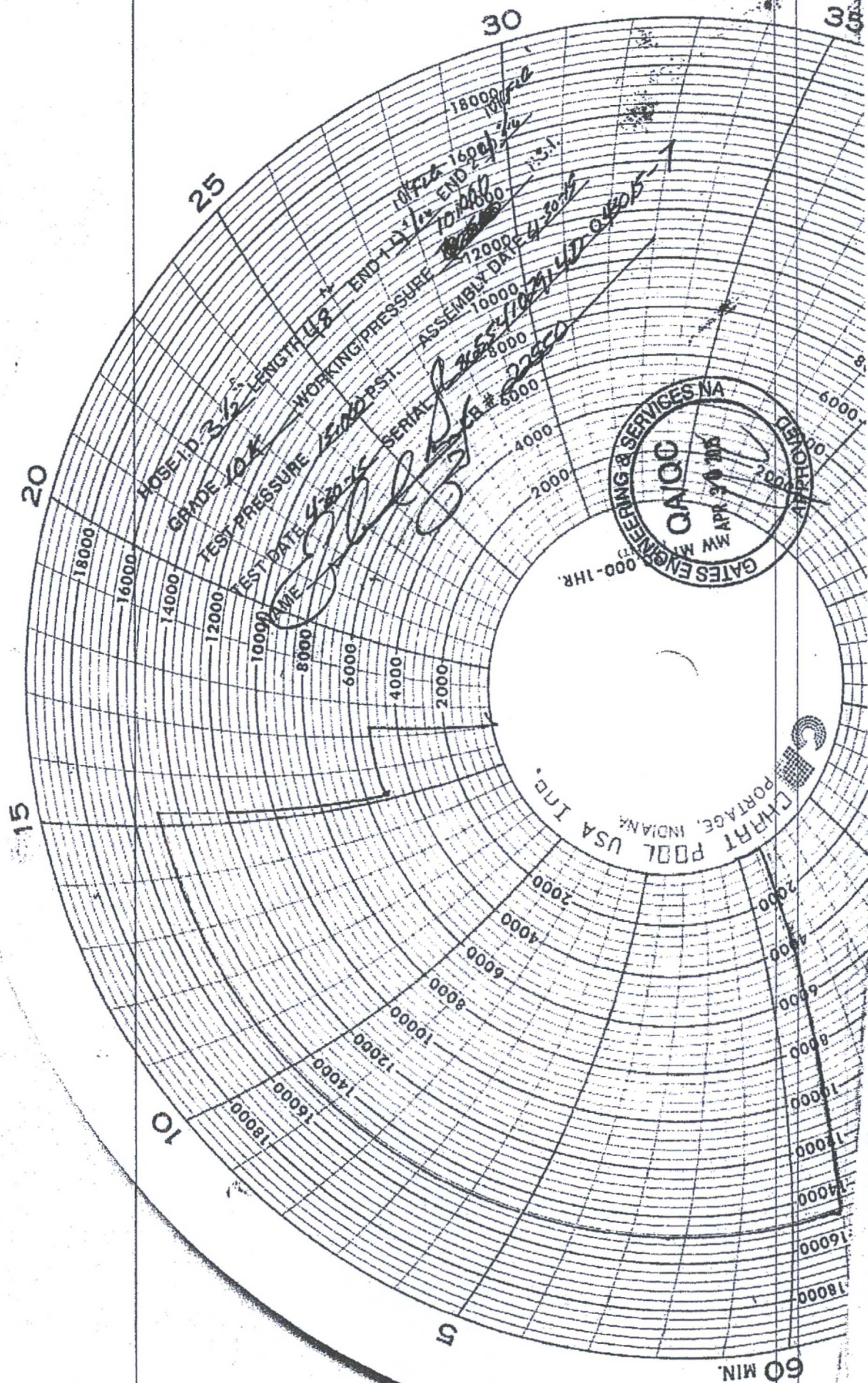
Date :

Signature :

PRODUCTION
4/30/2015
<i>HL</i>

Form PTC - 01 Rev.02





H2S Diagram

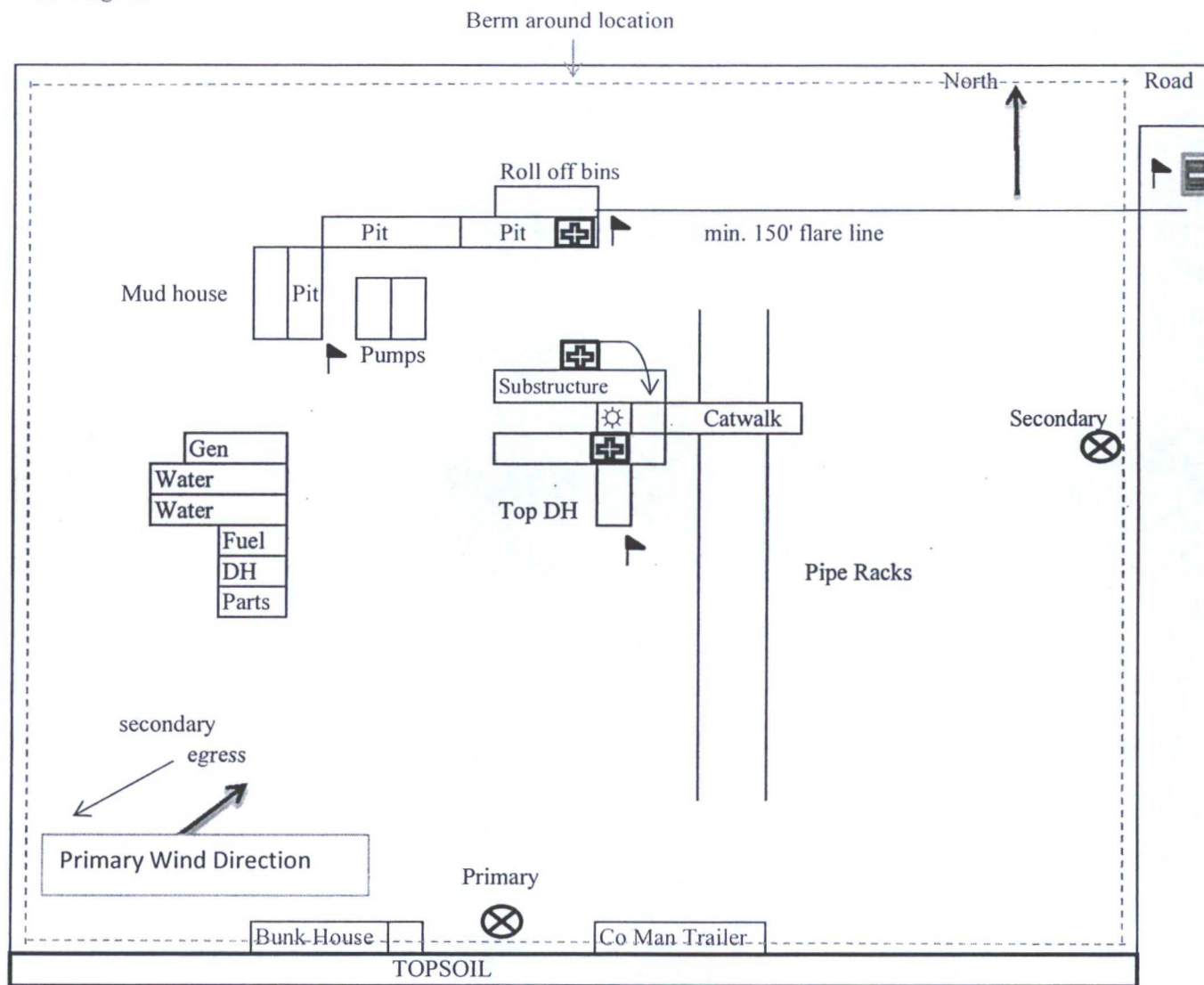


Exhibit 5



Mewbourne Oil Company
 Salado Draw 9 W1DM Fed Com #2H
 320' FNL & 500' FWL
 Sec 9-T26S-R33E
 Lea County, NM