

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

HOBBS COO
JUN 20 2018

RECEIVED

ATB-16-161 MIN F
SULF F


1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. NMNM-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 (14744)		7. If Unit or CA Agreement, Name and No.
3a. Address PO Box 5270 Hobbs, NM 88241	3b. Phone No. (include area code) 575-393-5905	8. Lease Name and Well No. (721558) Salado Draw 9 W1AP Fed Com #2H
4. Location of Well (Report location clearly and in accordance with any State requirements*) At surface 330' FNL & 210' FEL, Sec 9 T26S R33E At proposed prod. zone 330' FSL & 500' FEL, Sec 9 T26S R33E		9. API Well No. 30-025-44913
14. Distance in miles and direction from nearest town or post office* 22 miles SW of Jal, NM		10. Field and Pool, or Exploratory Red Hills Wolfcamp Gas (83600)
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 310'		11. Sec., T. R. M. or Blk. and Survey or Area Sec 9 T26S R33E
16. No. of acres in lease 320		12. County or Parish Lea
17. Spacing Unit dedicated to this well 640		13. State NM
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 170' - Salado Draw 9 AP Fed Com #1H		19. Proposed Depth 12,344' - TVD 16,740' - MD
20. BLM/BIA Bond No. on file NM-1693 Nationwide, NMB-000919		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3332' - GL
22. Approximate date work will start* 02/28/2016		23. Estimated duration 60 days

UNORTHODOX
LOCATION

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) Bradley Bishop	Date 12/31/2015
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Title

Approved by (Signature) /s/Cody Layton	Name (Printed/Typed) FIELD MANAGER	Date JUN 13 2018
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Title	Office CARLSBAD FIELD OFFICE
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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)

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

Carlsbad Controlled Water Basin

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Mewbourne Oil Company, Salado Draw 9 W1AP Fed Com #2H

Sec 9, T26S, R33E

SL: 330' FNL & 210' FEL

BHL: 330' FSL & 500' FEL

1. Geologic Formations

TVD of target	12344'	Pilot hole depth	NA
MD at TD:	16740'	Deepest expected fresh water:	150'

Basin

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface		
Rustler	934		
Top of Salt	1292		
Castile	3502	Barren	
Base of Salt	4874		
Lamar	5005	Oil	
Bell Canyon	5052		
Cherry Canyon	6108		
Manzanita Marker	6227		
Brushy Canyon	7590		
Bone Spring	9022	Oil/Gas	
1 st Bone Spring Sand	10010		
2 nd Bone Spring Sand	10589		
3 rd Bone Spring Sand	11652		
Abo			
Wolfcamp	12107	Target Zone	
Devonian			
Fusselman			
Ellenburger			
Granite Wash			

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

Mewbourne Oil Company, Salado Draw 9 W1AP Fed Com #2H
Sec 9, T26S, R33E
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2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0'	960' 990'	13.375"	48	H40	STC	1.48	3.47	6.99
12.25"	0'	3453'	9.625"	36	J55	LTC	1.13	1.96	2.47
12.25"	3453'	4393'	9.625"	40	J55	LTC	1.13	1.73	8.80
12.25"	4393'	4930'	9.625"	40	N80	LTC	1.21	2.24	34.32
8.75"	0'	11771'	7"	26	HCP110	LTC	1.27	1.63	2.10
8.75"	11771'	12671'	7"	26	HCP110	BTC	1.22	1.55	35.47
6.125"	11771'	16740'	4.5"	13.5	P110	LTC	1.67	1.93	5.02
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
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?	

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3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft ³ / sack	H ₂ O gal/ sk	500# Comp. Strength (hours)	Slurry Description
Surf.	510	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
Inter.	825	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.	490	12.5	2.12	11	9	Lead: 60:40:0 Class C + 15.00 lb/sk BA-90 + 4.00% MPS-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free
	400	15.6	1.18	5.2	10	Tail: Class H + 0.65% FL-52 + 0.10% R-3 + 0.005 lb/sk Static Free
Liner	210	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

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%
Intermediate	0'	25%
Production	4730'	25%
Liner	11771'	25%

Mewbourne Oil Company, Salado Draw 9 W1AP Fed Com #2H

Sec 9, T26S, R33E

SL: 330' FNL & 210' FEL

BHL: 330' FSL & 500' FEL

4. Pressure Control Equipment

Variance: None

BOP installed and tested before drilling which hole?	Size?	System Rated WP	Type	✓	Tested to:
12-1/4"	13-5/8"	3M	Annular	X	1500#
			Blind Ram		
			Pipe Ram		
			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.

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.
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Mewbourne Oil Company, Salado Draw 9 W1AP Fed Com #2H
Sec 9, T26S, R33E
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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?
N	<p>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.</p> <ul style="list-style-type: none"> • Provide description here <p>See attached schematic.</p>	

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	960 990'	FW Gel	8.6-8.8	28-34	N/C
960	4930	Saturated Brine	10.0	28-34	N/C
4930	11771	Cut Brine	8.6-9.5	28-34	N/C
11771	16740	OBM	10.0-13.0	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?	Pason/PVT/Visual Monitoring
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6. Logging and Testing Procedures

Logging, Coring and Testing.	
X	Will run GR/CNL from KOP (11771') 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	11771'(KOP) to TD
	Density	
	CBL	
	Mud log	
	PEX	

Mewbourne Oil Company, Salado Draw 9 W1AP Fed Com #2H
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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5347 psi
Abnormal Temperature	No

Mitigation measure for abnormal conditions. Describe. Lost circulation material/sweeps/mud scavengers in surface hole. Weighted mud for possible over-pressure in Wolfcamp formation.

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.

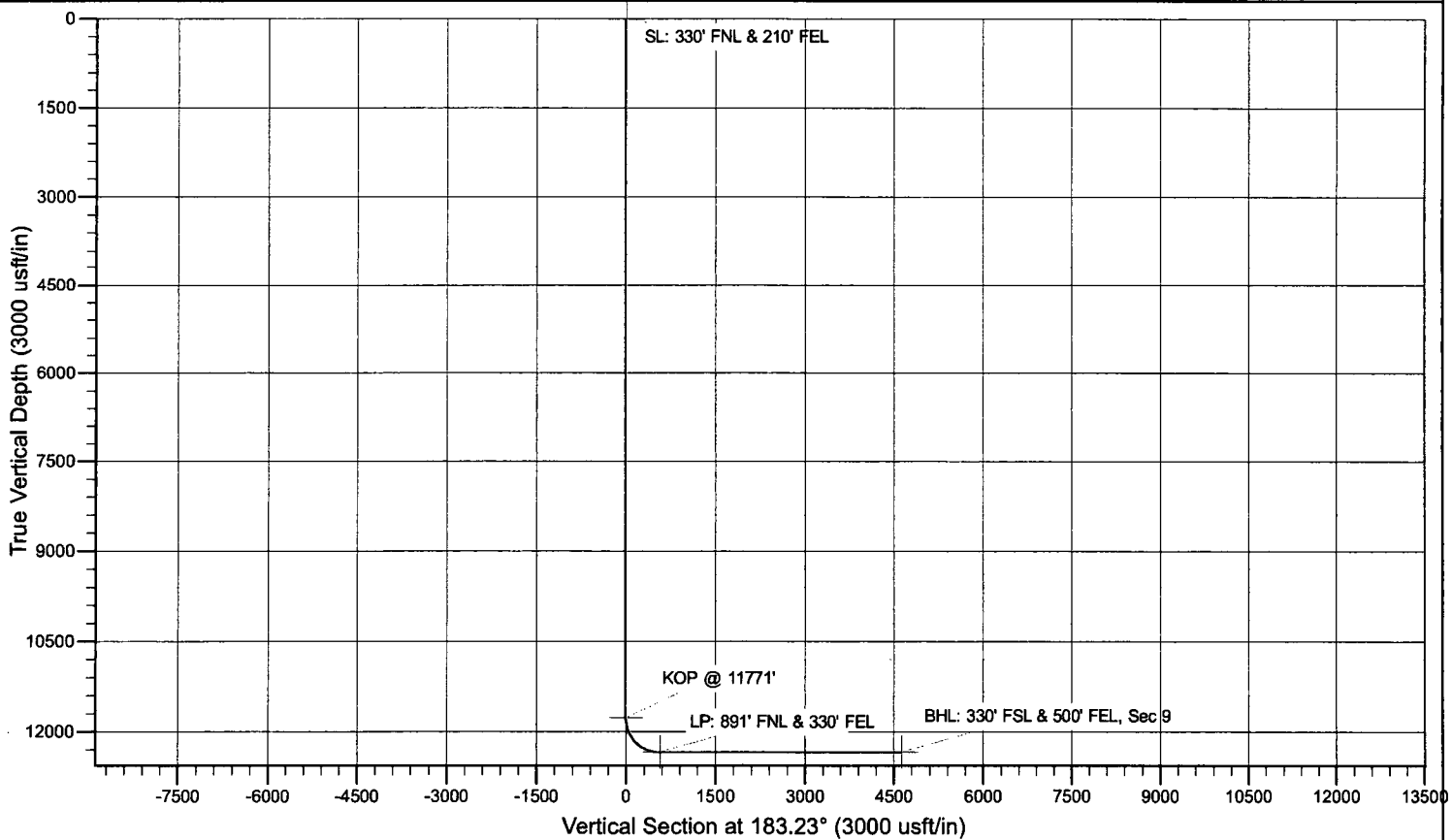
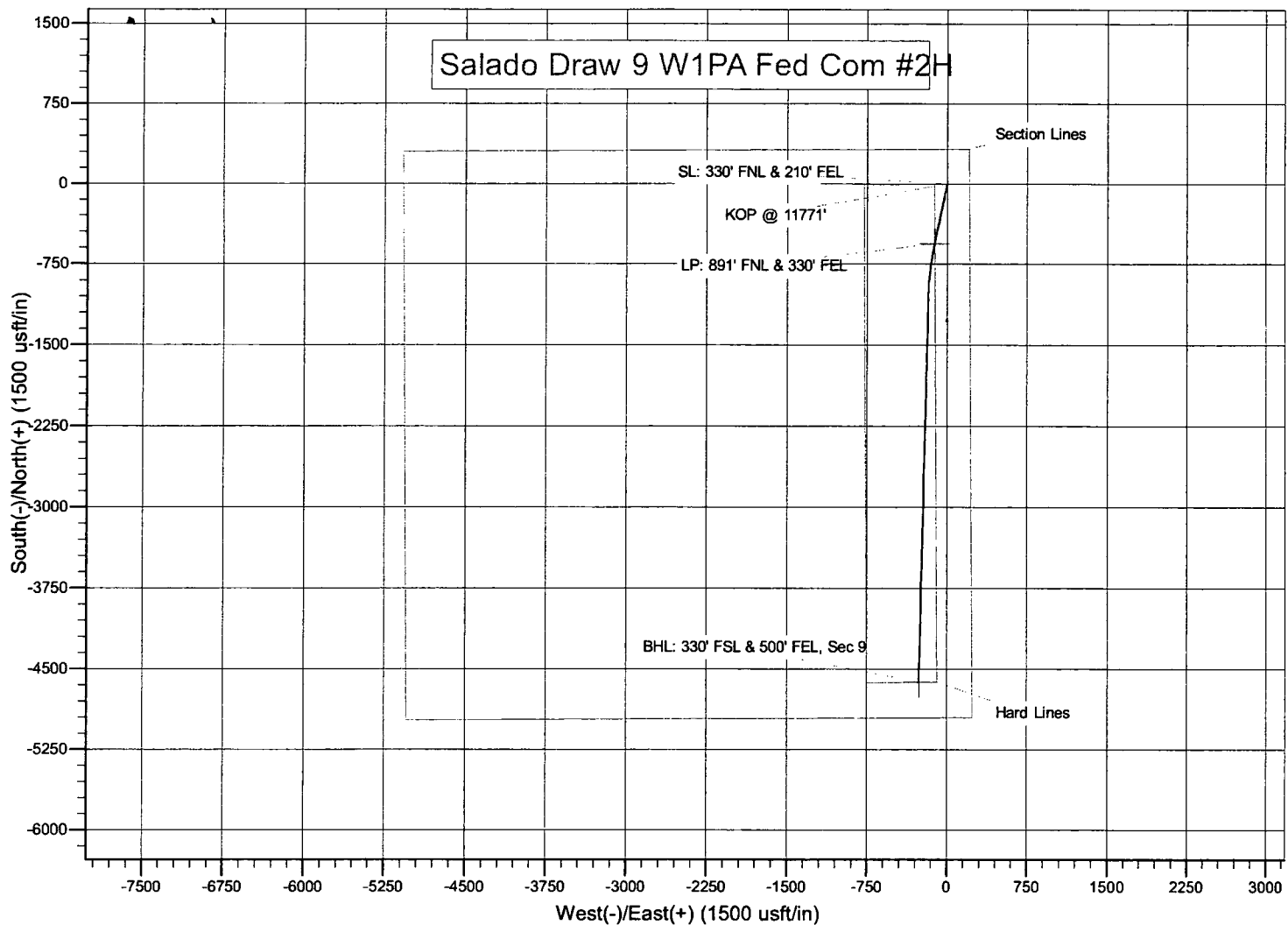
Will be pre-setting casing? If yes, describe.

Attachments

___ Directional Plan

___ Other, describe

Salado Draw 9 W1PA Fed Com #2H



Notes Regarding Blowout Preventer

Mewbourne Oil Company

Salado Draw 9 W1AP Fed Com #2H

330' FNL & 210' FEL (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 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 an accumulator of at least 40 gallon capacity, two independent sources of pressure on closing unit, and meet all other API specifications.

13 5/8" 2M BOPE & Closed Loop Equipment Schematic

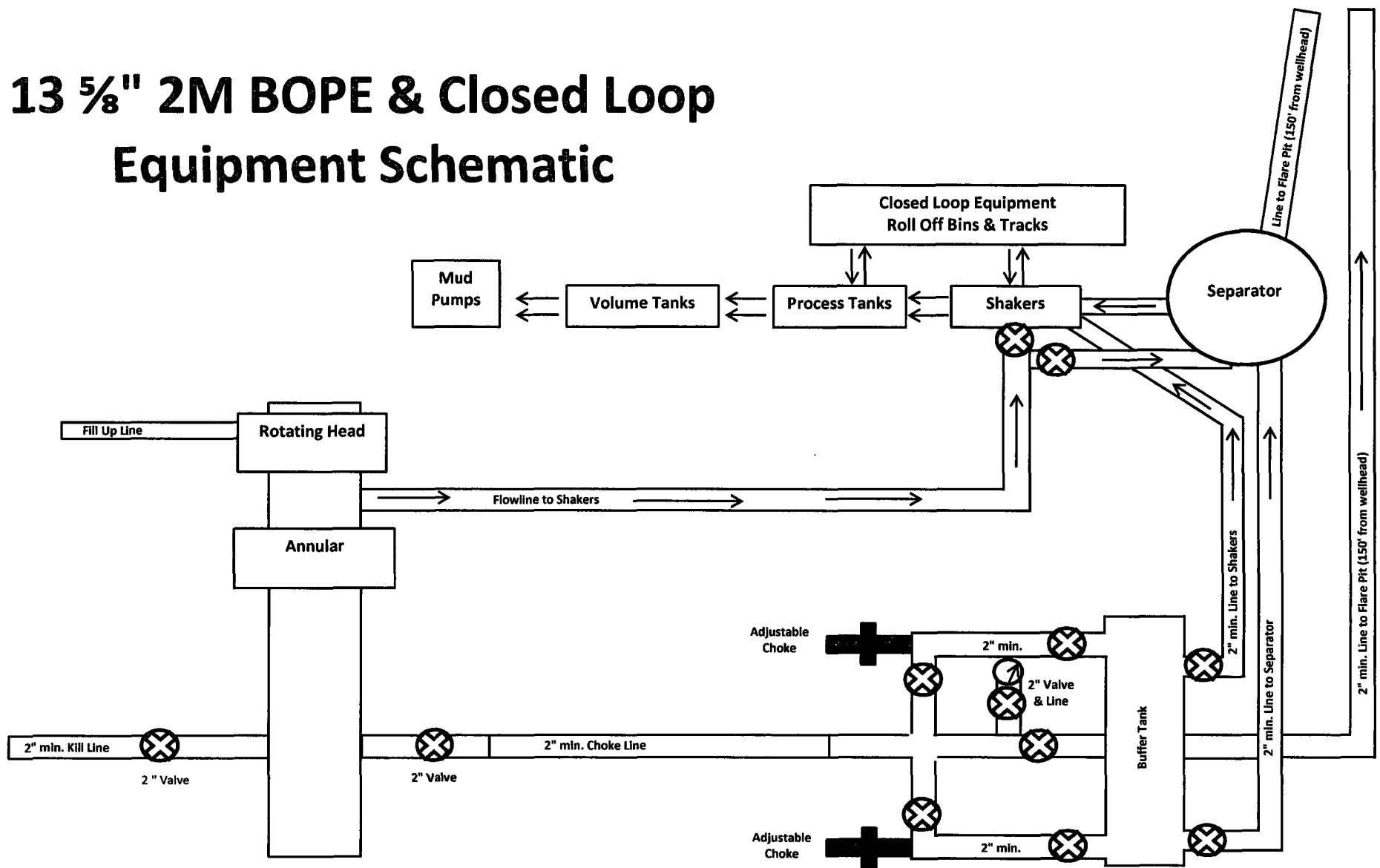


Exhibit 2A

Well Name: Salado Draw 9 W1AP Fed Com #2H

10M BOPE & Closed Loop Equipment Schematic

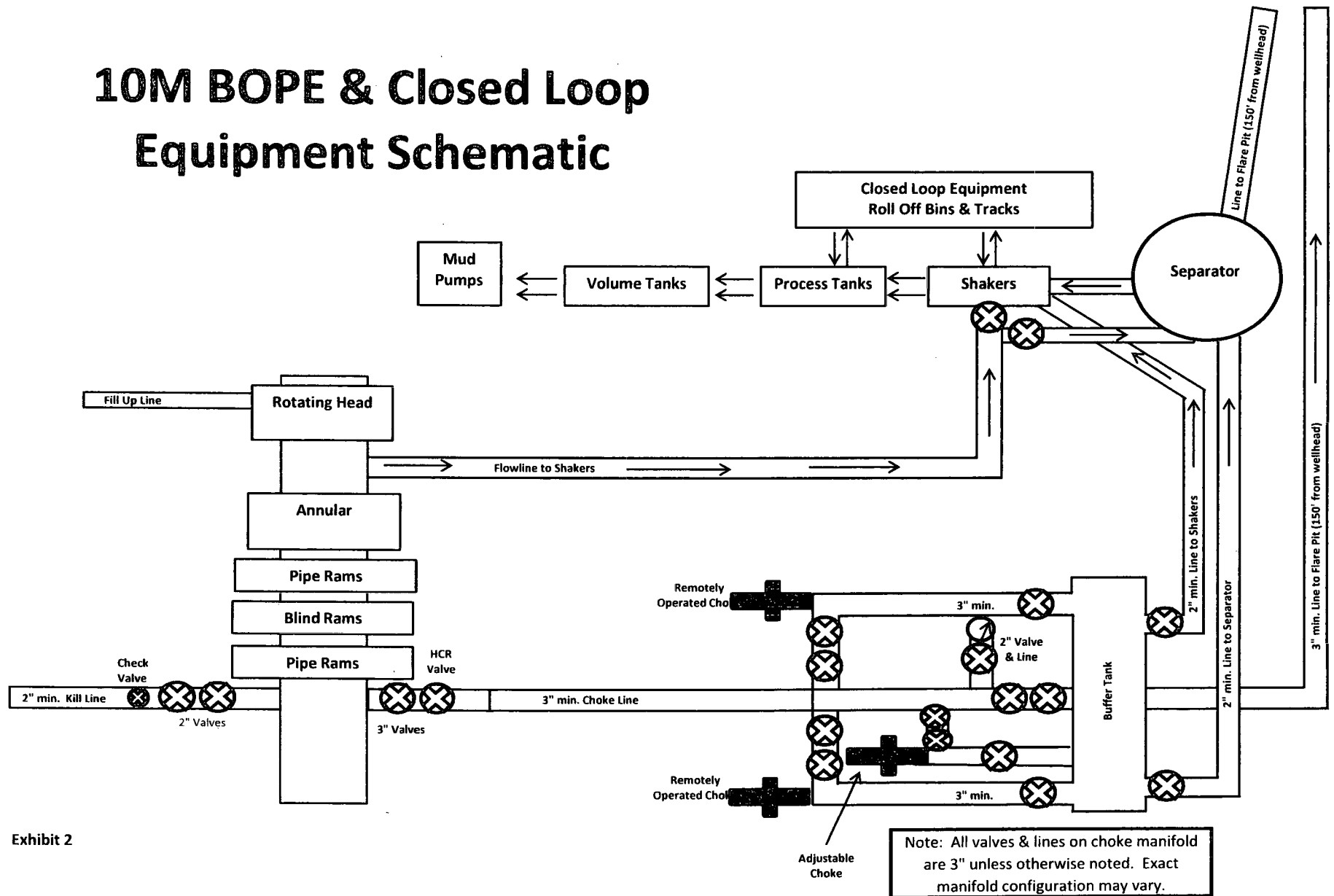


Exhibit 2



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

Customer Ref. :

4060578

Invoice No. :

500506

Test Date:

4/30/2015

Hose Serial No.:

D-043015-7

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 :

QUALITY

Date :

4/30/2015

Signature :

Production:

Date :

Signature :

PRODUCTION

4/30/2015

Form PTC - 01 Rev.02



