

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Operator
REC'D/MIDLAND
JAN 16 2020

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.
NMNM030453

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891000303X

8. Well Name and No.
POKER LAKE UNIT 13 DTD 707H

9. API Well No.
30-015-45828-00-X1

10. Field and Pool or Exploratory Area
PURPLE SAGE-WOLFCAMP (GAS)

11. County or Parish, State
EDDY COUNTY, NM

SUBMIT IN TRIPLICATE - Other instructions on page 2

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
XTO PERMIAN OPERATING LLC
Contact: KELLY KARDOS
E-Mail: kelly_kardos@xtoenergy.com

3a. Address
6401 HOLIDAY HILL ROAD BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)
Ph: 432-620-4374

4. Location of Well: (Footage, Sec., T., R., M., or Survey Description)
Sec 24, T24S R30E NENE 512ANL/1179FEL
32.209213 N Lat, 103.829491 W Lon

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 recomplate 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 in a new interval, 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.

XTO Permian Operating, LLC requests permission to make the following changes to the original APD:

Change the surface hole size from 24" to 17-1/2". Revised drilling program attached.

XTO requests to utilize centralizers from KOP to TOC only a minimum of one every other joint.

Batch drill previously approved under WIS: 496069.

Poker Lake Unit 13 DTD 127H 30-015-45823
Poker Lake Unit 13 DTD 907H 30-015-45829
Poker Lake Unit 13 DTD 707H 30-015-45828

RECEIVED
JAN 21 2020

EMNRD-OCD ARTESIA

COAs from Ec# 496069 still stand

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

Electronic Submission #497333 verified by the BLM Well Information System
For XTO PERMIAN OPERATING LLC, sent to the Carlsbad
Committed to AEMSS for processing by JENNIFER SANCHEZ on 01/07/2020 (20JAS0057SE)

Name (Printed/Typed): KELLY KARDOS Title: REGULATORY COORDINATOR

Signature: (Electronic Submission) Date: 01/02/2020

APPROVED

THIS SPACE FOR FEDERAL OR STATE OFFICE USE JAN 07 2020

Approved By: [Signature] Title: BUREAU OF LAND MANAGEMENT Date: 01/28/2020

Office: ROSWELL FIELD OFFICE

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.

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 ****

Accepted 1/28/20 KS

Revisions to Operator-Submitted EC Data for Sundry Notice #497333

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM030453	NMNM030453
Agreement:	NMNM71016X	891000303X (NMNM71016X)
Operator:	XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374	XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277
Admin Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Tech Contact:	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374	KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com Ph: 432-620-4374
Location:		
State:	NM	NM
County:	EDDY	EDDY
Field/Pool:	PURPLE SAGE WOLFCAMP GAS	PURPLE SAGE-WOLFCAMP (GAS)
Well/Facility:	POKER LAKE UNIT 13 DTD 707H Sec 24 T24S R30E Mer NMP NENE 512FNL 1179FEL	POKER LAKE UNIT 13 DTD 707H Sec 24 T24S R30E NENE 512FNL 1179FEL 32.209213 N Lat, 103.829491 W Lon

DRILLING PLAN: BLM COMPLIANCE
(Supplement to BLM 3160-3)

XTO Energy Inc.
PLU 13 Dog Town Draw 707H
Projected TD: 21821' MD / 11729' TVD
SHL: 512' FNL & 1179' FWL, Section 24, T24S, R30E
BHL: 200' FSL & 1249' FWL, Section 25, T24S, R30E
Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

2. Estimated Tops of Geological Markers & Depths of Anticipated Fresh Water, Oil or Gas:

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	479'	Water
Top of Salt	929'	Water
Base of Salt	4059'	Water
Delaware	4224'	Water
Bone Spring	8069'	Water/Oil/Gas
1st Bone Spring Ss	9034'	Water/Oil/Gas
2nd Bone Spring Ss	9849'	Water/Oil/Gas
3rd Bone Spring Ss	10974'	Water/Oil/Gas
Wolfcamp Shale	11419'	Water/Oil/Gas
Wolfcamp A Shale	11529'	Water/Oil/Gas
Target/Land Curve	11729'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 40' (per NM State Engineers Office).

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13-3/8 inch casing @ 770' (159' above the salt) and circulating cement back to surface. A 12-1/4 inch vertical hole will be drilled to 10299' and 9-5/8 inch casing ran and cemented 200' into the 13-3/8 inch casing. An 8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 770'	13-3/8"	68	BTC	J-55	New	1.27	5.60	20.42
12-1/4"	0' - 10299'	9-5/8"	40	BTC	HCL-80	New	1.21	1.40	2.22
8-3/4-8-1/2"	0' - 21821'	5-1/2"	20	BTC	P-110	New	1.18	1.58	-2.07

XTO requests to utilize centralizers after KOP and only a minimum of one every other joint.

9-5/8" Collapse analyzed using 50% evacuation based on regional experience.

5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Permanent Wellhead – GE RSH Multibowl System

A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange

B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange

- Wellhead will be installed by manufacturer's representatives.
- Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- Operator will test the 9-5/8" casing per Onshore Order 2.
- Wellhead manufacturer representative may not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13-3/8", 68 New J-55, BTC casing to be set at +/- 770'

Lead: 340 sxs EconoCem-HLTRRC (mixed at 12.8 ppg, 1.87 ft³/sx, 10.13 gal/sx water)

Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sx, 6.39 gal/sx water)

Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Top of Cement: Surface

2nd Intermediate Casing (Stage 2): 9-5/8", 40 New HCL-80, BTC casing to be set at +/- 10299'
ECP/DV Tool to be set at 4109'

1st Stage

Lead: 590 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 3.45 ft³/sx, 21.14 gal/sx water)

Tail: 380 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft³/sx, 6.39 gal/sx water)

Compressives: 12-hr = 500 psi 24 hr = 1151 psi

2nd Stage

Lead: 940 sxs Halcem-C + 2% CaCl (mixed at 11.0 ppg, 3.45 ft³/sx, 21.14 gal/sx water)

Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.32 ft³/sx, 6.39 gal/sx water)

Compressives:

Top of Cement: 200' inside previous casing shoe

surface this is only the 2nd string

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 21821'

Lead: 110 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft³/sx, 9.61 gal/sx water)

Tail: 2530 sxs VersaCem (mixed at 13.2 ppg, 1.33 ft³/sx, 8.38 gal/sx water)

Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

Top of Cement: 300' inside previous casing shoe

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydral, and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 4434 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When the 13-3/8" and 9-5/8" casing is set, the packoff seals will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 770'	17-1/2"	FW/Native	8.4-8.8	35-40	NC
770' to 10299'	12-1/4"	FW / Cut Brine / Direct Emulsion	8.8-9.8	29-32	NC - 20
10299' to 21821'	8-3/4-8-1/2"	FW / Cut Brine / Polymer/ OBM	11.2-12	32-50	NC - 20

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine / oil emulsified mud. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13-3/8" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below 1st intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

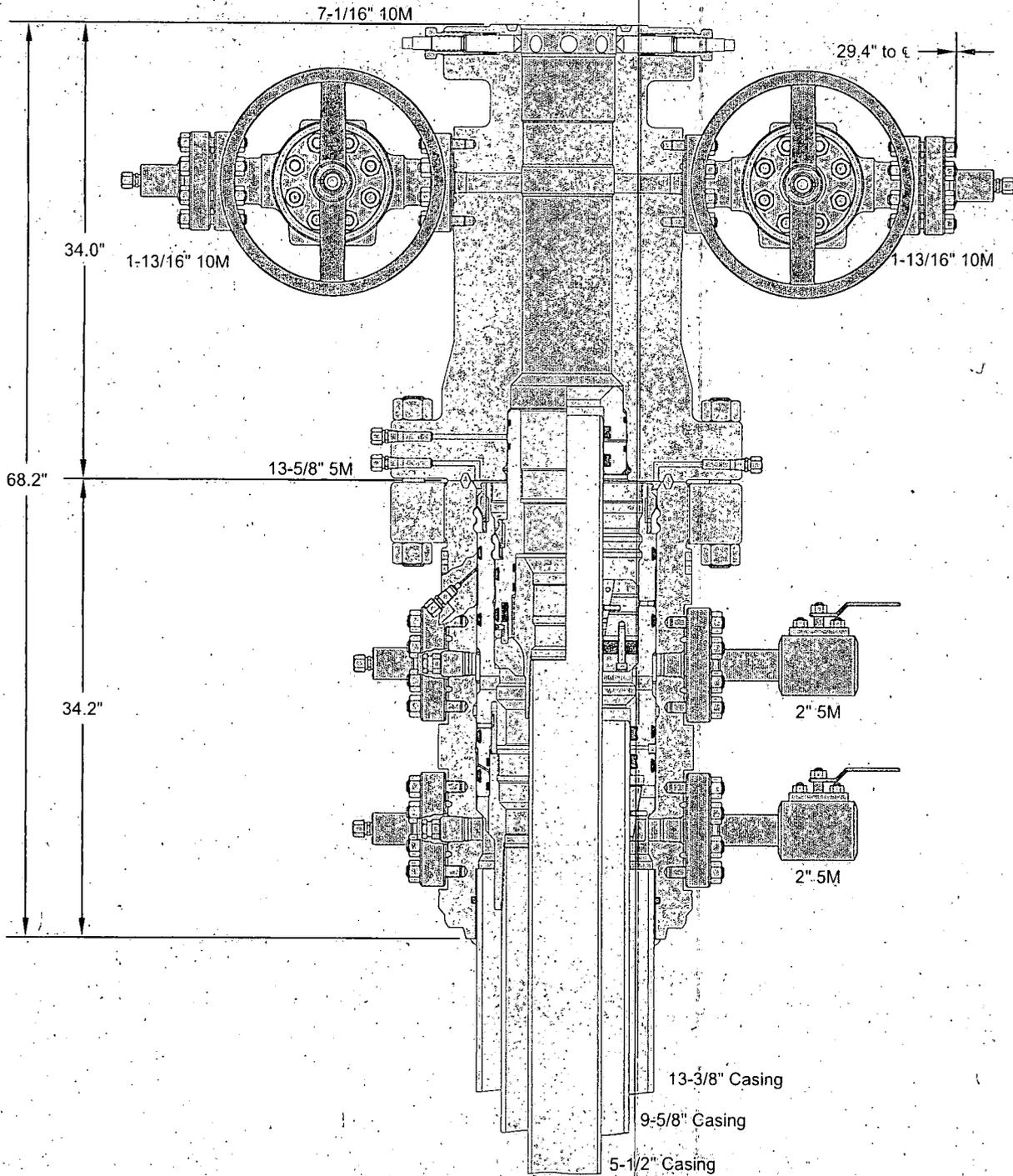
None Anticipated. BHT of 155 to 175 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 7014 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

This drawing is the property of GE Oil & Gas Pressure Control LP and is considered confidential. Unless otherwise approved in writing, neither it nor its contents may be used, copied, transmitted or reproduced except for the sole purpose of GE Oil & Gas Pressure Control LP.

XTO ENERGY, INC.

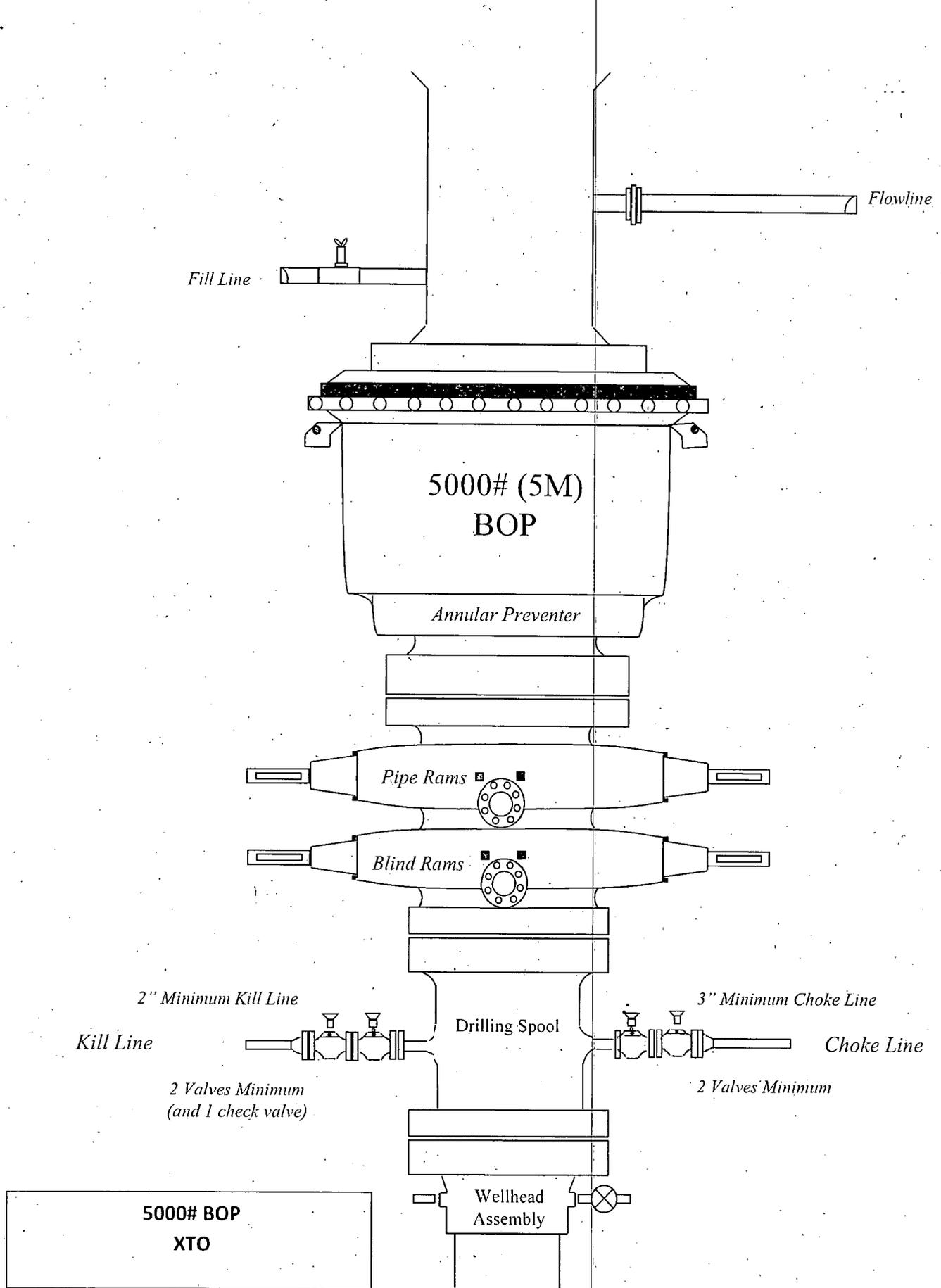
13-3/8" x 9-5/8" x 5-1/2" 10M RSH-2 Wellhead Assembly, With T-EBS-F Tubing Head

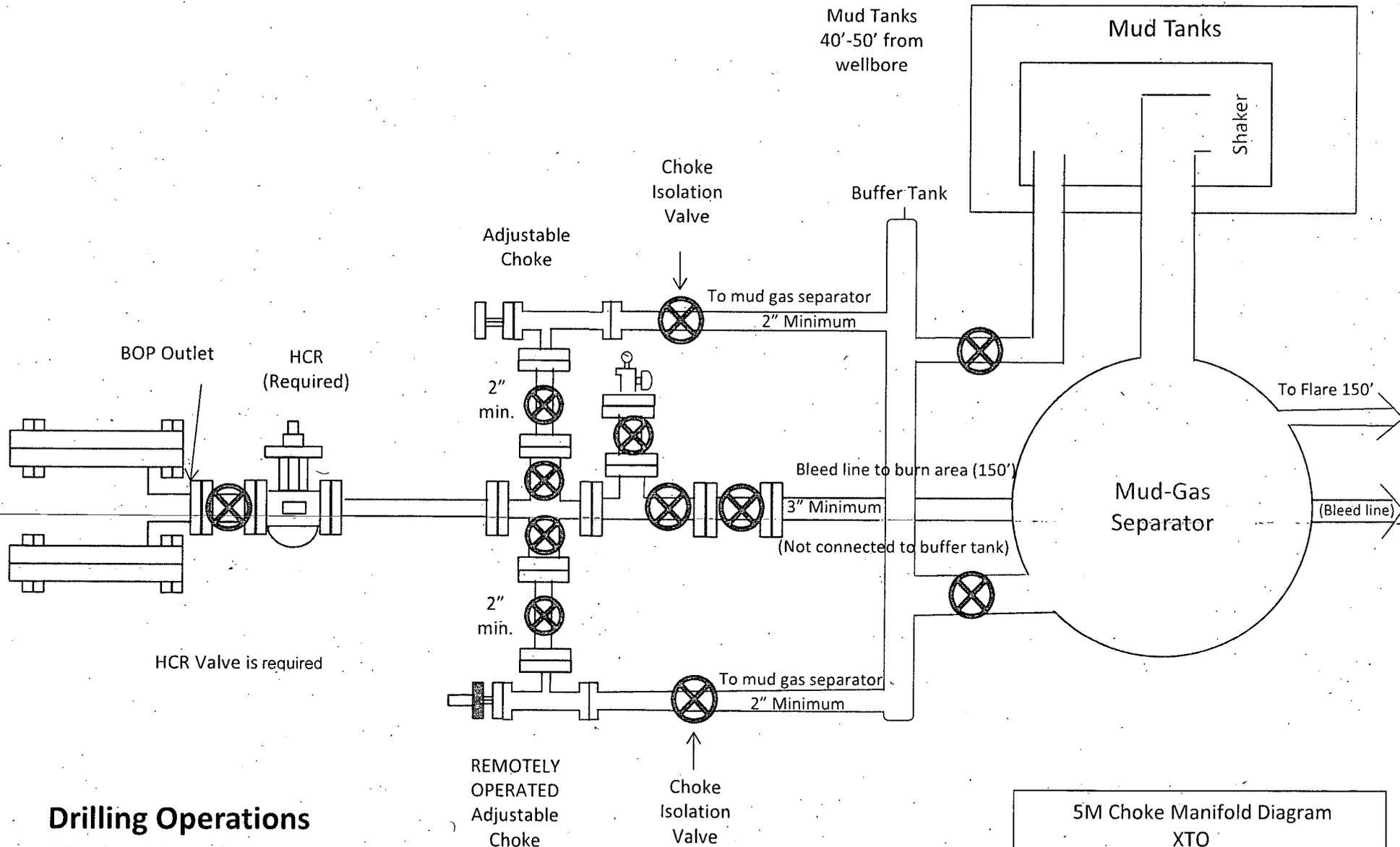
DRAWN VJK 16FEB17

APPRV KN 16FEB17

FOR REFERENCE ONLY

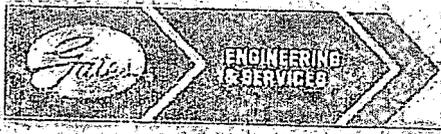
DRAWING NO. 10012842





**Drilling Operations
Choke Manifold
5M Service**

5M Choke Manifold Diagram
XTO



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

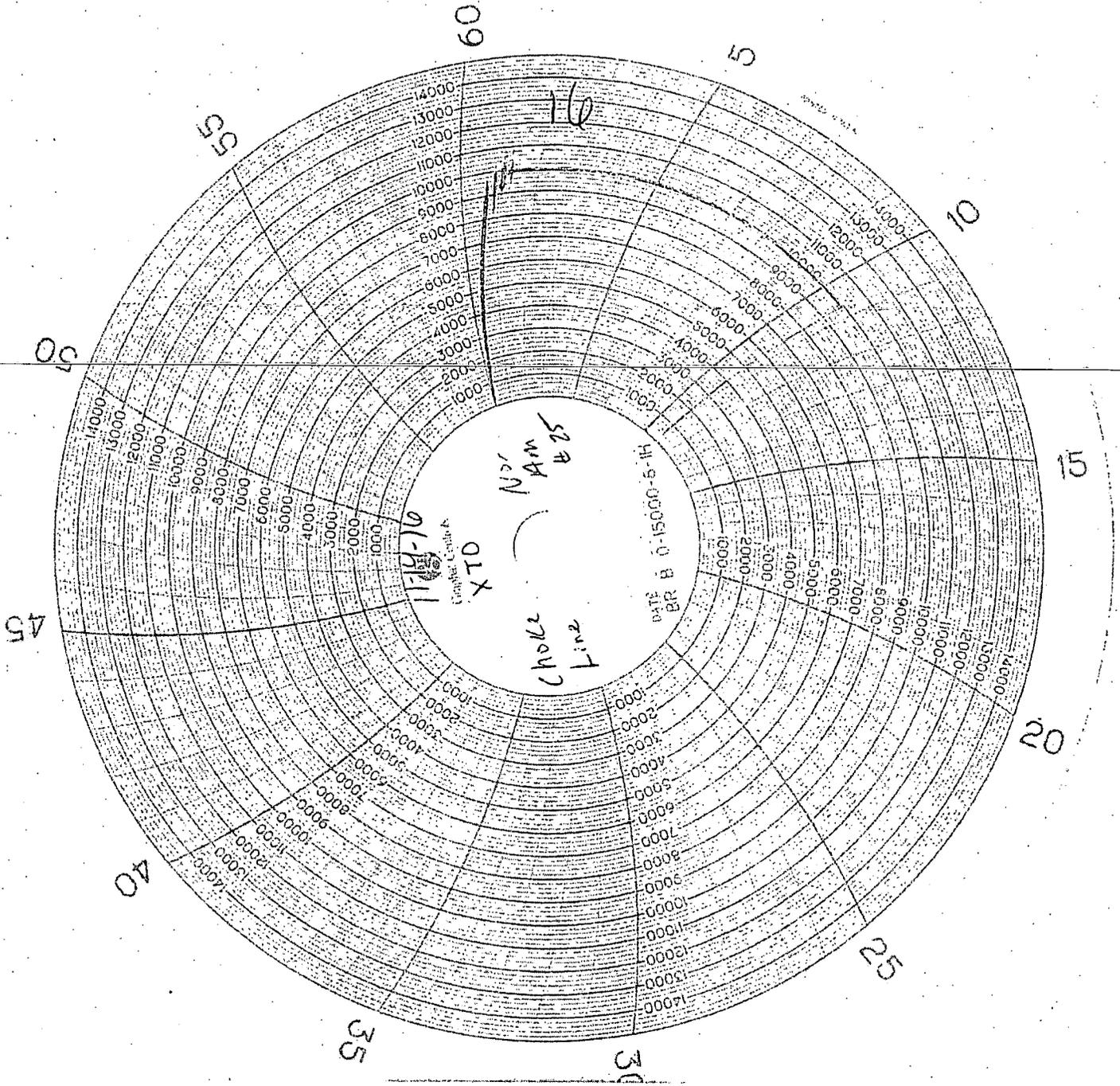
PHONE: 361-887-9807
 FAX: 361-887-0812
 EMAIL: crpe@s@gates.com
 WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

Customer:	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref.:	PENDING	Hose Serial No.:	D:060814-1
Invoice No.:	201709	Created By:	NORMA
Product Description:	FD3.042.08.1/16.5K FLGE/E LE		
End Fitting 1:	4 1/16 in.5K FLG	End Fitting 2:	4 1/16 in.5K FLG
Gates Part No.:	4774-6001	Assembly Code:	L33090011513D-060814-1
Working Pressure:	5,000 PSI	Test Pressure:	7,500 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 7,500 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:	QUALITY	Technical Supervisor:	PRODUCTION
Date:	6/8/2014	Date:	6/8/2014
Signature:	<i>[Signature]</i>	Signature:	<i>[Signature]</i>



NOON

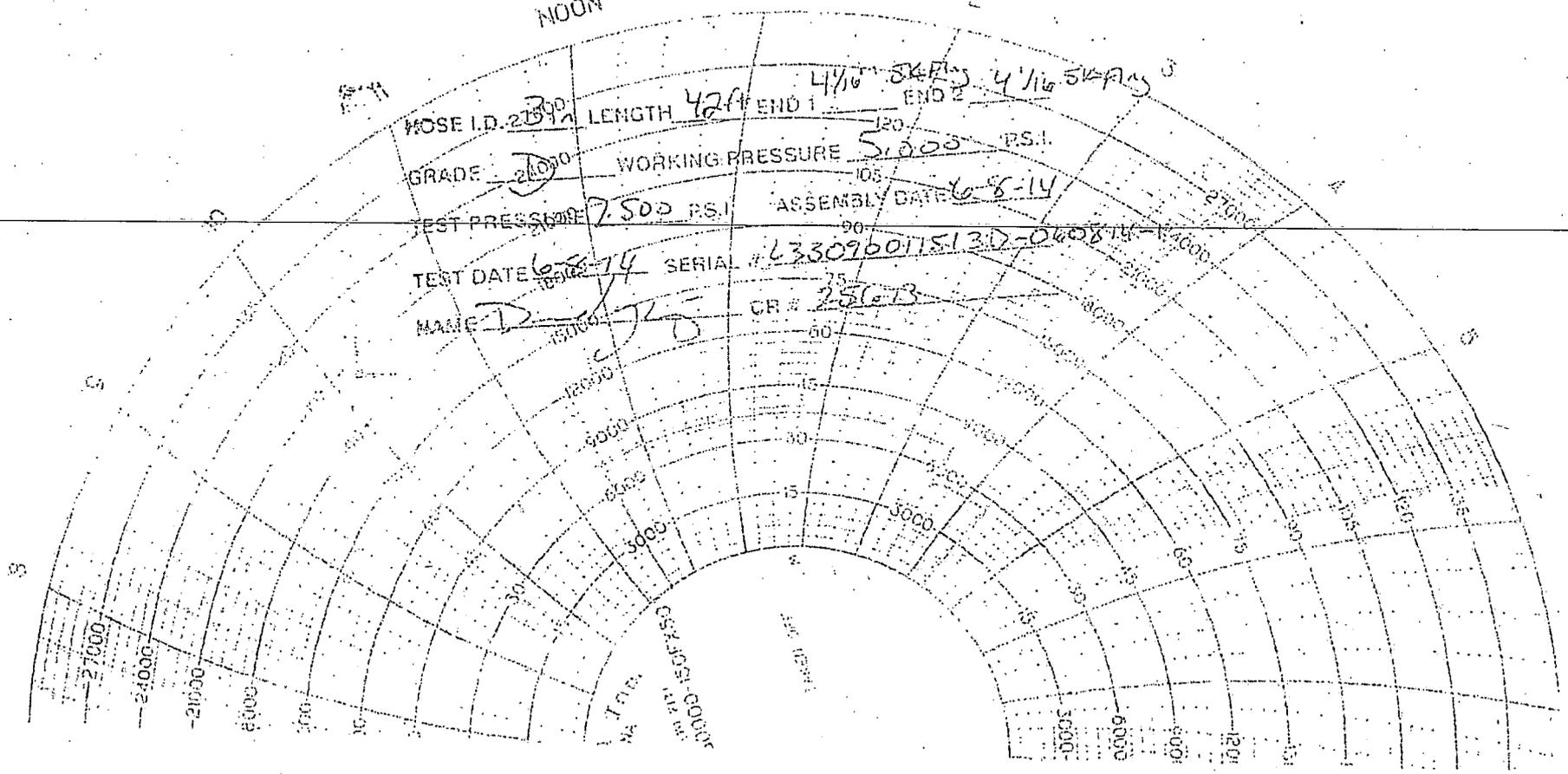
MOSE I.D. 2 1/2" LENGTH 42" END 1 4 1/16" SKIPS END 2 4 1/16" SKIPS

GRADE 21000 WORKING PRESSURE 5000 PS.I.

TEST PRESSURE 7500 PS.I. ASSEMBLY DATE 6-8-14

TEST DATE 6-8-14 SERIAL # L33096011513D-060814

NAME D. J. CR # 2503



MA
T T I E
C S 2 J O S 1 3 D 0 6 0 8 1 4