

SECRETARY'S POTASH

HOBBS
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15-884
FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

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		7. If Unit or CA Agreement, Name and No.	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		8. Lease Name and Well No. (316778) Ocioso 21 Federal Com #1H	
2. Name of Operator XTO Energy, Inc (5380)		9. API Well No. 30-025-43410	
3a. Address 500 W. Illinois Ste 100 Midland, Texas 79701		10. Field and Pool, or Exploratory Lusk; Bone Spring, East (41442)	
3b. Phone No. (include area code) 432-620-6714		11. Sec., T. R. M. or Blk. and Survey or Area D-28-T19S-R32E	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface 655'FNL & 585'FWL, D-28-T19S-R32E At proposed prod. zone 330'FSL & 541'FWL, M-21-T19S-R32E		12. County or Parish Lea	
14. Distance in miles and direction from nearest town or post office*		13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 585'FWL		16. No. of acres in lease 440	
17. Spacing Unit dedicated to this well 160		18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 0' - 1st Well on Lease	
19. Proposed Depth TVD: 9387' MD: 14,886'		20. BLM/BIA Bond No. on file UTB000138	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3571'		22. Approximate date work will start*	
23. Estimated duration 45 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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the BLM. |

25. Signature Stephanie Rabadue	Name (Printed/Typed) Stephanie Rabadue	Date 05/02/2015
Title Regulatory Analyst		
Approved by (Signature) /s/George MacDonell	Name (Printed/Typed)	Date SEP 6 - 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.

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)

Capitan Controlled Water Basin

K2
09/10/106

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Approval Subject to General Requirements
& Special Stipulations Attached

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

XTO Energy Inc.
Ocioso 21 Federal COM 1H
Projected TD: 14886' MD / 9387' TVD
SHL: 655' FNL & 585' FWL, SECTION 28, T19S, R32E
BHL: 200' FNL & 330' FWL, SECTION 21, T19S, R32E
Lea 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	838'	Water
Top of Salt	966'	
Base of Salt	2447'	
Delaware	4756'	Water
Brushy Canyon	5839'	Water/Oil/Gas
Bone Spring	7233'	Water/Oil/Gas
1 st Bone Spring Ss	8434'	Water/Oil/Gas
2 nd Bone Spring Ss	9161'	Water/Oil/Gas
Target/Land Curve	9387'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

*** Groundwater depth 223' (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" casing @ 875' above the salt and circulating cement back to surface. The salt will be isolated by setting 9-5/8" casing at 4725' and circulating cement to surface. An 8-3/4" curve and lateral hole will be drilled to MD/TD and 5-1/2" casing with sliding frac sleeves will be set at TD and cemented back 500' into the 9-5/8" casing shoe.

3. CASING PROGRAM: See COA

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 875' 845'	13-3/8"	48#	STC	H-40	New	5.32	1.85	7.67
12-1/4"	0' - 3500'	9-5/8"	36#	LTC	J-55	New	1.76	1.18	2.59
	3500' - 4725'	9-5/8"	40#	LTC	J-55	New	1.98	1.41	10.61
8-3/4"	0' - 14886'	5-1/2"	17#	BTC	P-110	New	1.12	1.67	2.24

WELLHEAD:

- A. Starting Head: 13-5/8" 3000 psi top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3000psi bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5000psi bottom flange x 7-1/16" 10,000psi top flange

4. CEMENT PROGRAM: *See COA*

- A. Surface Casing: 13-3/8", 48#, NEW H-40, STC casing to be set at $\pm 875'$ *895'*

Lead: 20 bbls FW, then 475 sx ExtendaCem-CZ (mixed at 13.7 ppg, 1.68 ft³/sk, 8.72 gal/sx wtr)

Tail: 305 sx HalCem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft³/sk, 6.39 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to surface.

- B. Intermediate Casing: 9-5/8", 36#/40#, NEW J-55, LTC casing to be set at $\pm 4725'$.

Lead: 20 bbls FW, then 1400 sx EconoCem-HLC + 5% salt + 5 lbm/sk Kol-Seal (mixed at 12.9 ppg, 1.88 ft³/sk, 9.61 gal/sx wtr)

Tail: 250 sx HalCem-C (mixed at 14.8 ppg, 1.33 ft³/sk, 6.34 gal/sx wtr)
***All volumes 100% excess in open hole. Cement to surface.

- C. Production Casing: 5-1/2", 17#, NEW P-110, BTC casing to be set at $\pm 14886'$. Casing will be cemented and will include sliding sleeves for the completion.

Lead: 20 bbls FW, then 455 sx Tuned Light + 0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1% HR601 (mixed at 10.5 ppg, 2.69 ft³/sk, 12.26 gal/sx wtr)

Tail: 1410 sx VersaCem PBHS2 + 0.5% LAP-1 + 0.25 lbm/sk D-air 5000 + 0.2% HR 601 + 0.4% CFR-3 + 1 pps Salt (mixed at 13.2 ppg, 1.61 ft³/sk, 8.38 gal/sx wtr)

***All volumes 30% excess in open hole. ~~Planned top of cement 500' into intermediate casing~~

~~shoe~~ *Toc - 50' above Capitan Reef - 2990' - See COA*

*Low
Cement
- See COA*

5. PRESSURE CONTROL EQUIPMENT: See COA

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. Max bottom hole pressure should not exceed 4500 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" 3M bradenhead and flange, the BOP test will be limited to 3000psi. When nipping up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

See COA 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: See COA

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 875' 895'	17-1/2"	FW/Native	8.4 - 8.8	35 - 40	NC
875' to 4725'	12-1/4"	Brine/Gel Sweeps	9.8 - 10.2	30 - 32	NC
4725' to 14886'	8-3/4"	FW / Cut Brine / Poly-Sweeps	8.6 - 9.2	29 - 32	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 solution. A 9.8ppg-10.2ppg brine mud will be used while drilling through the salt formation. 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: See COA

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

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from KOP to intermediate casing shoe.

9. ABNORMAL PRESSURES AND TEMPERATURES / POTENTIAL HAZARDS: - See COA

None anticipated. BHT of 160 F is anticipated. ^{H2S present} ~~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.

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.

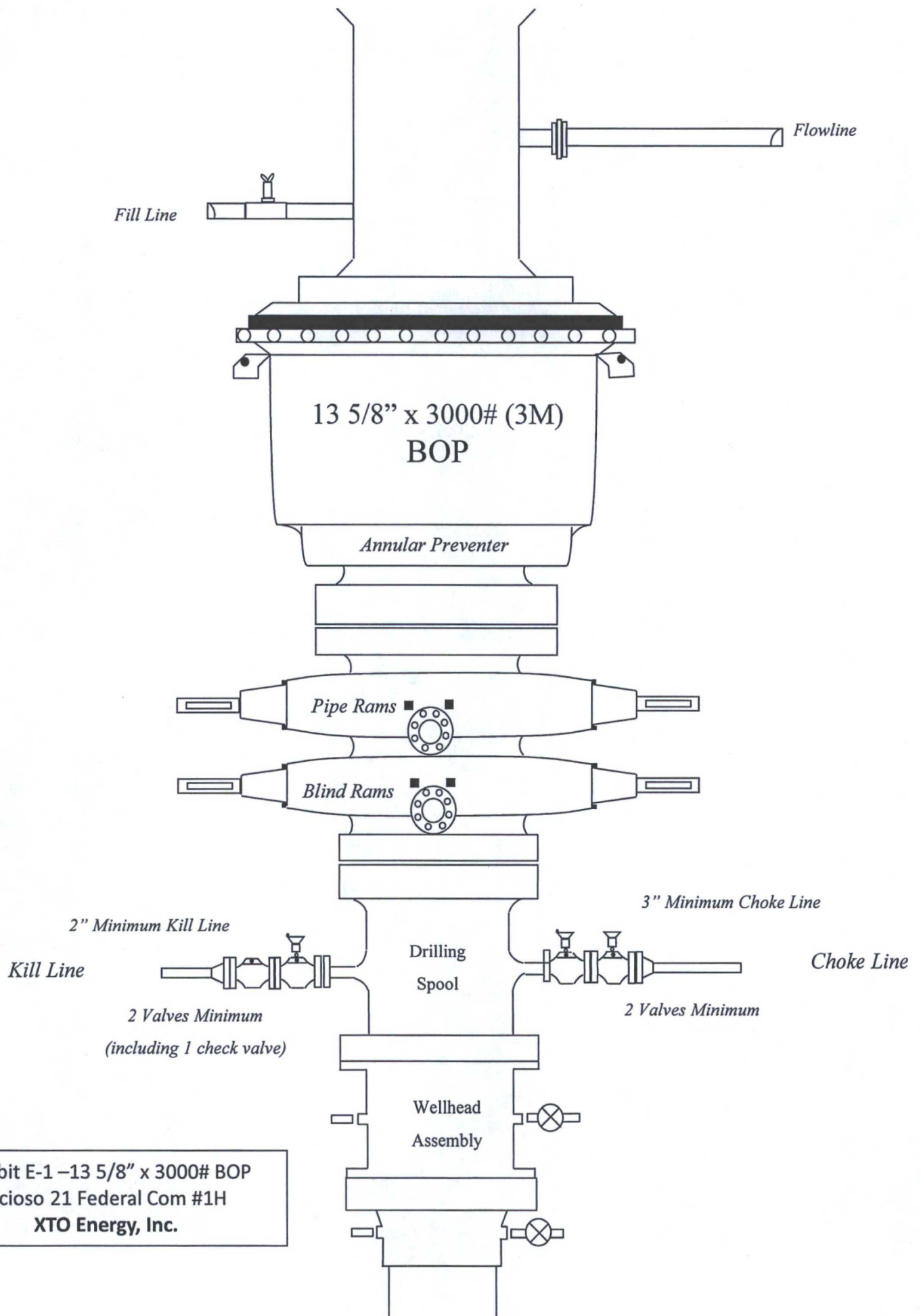
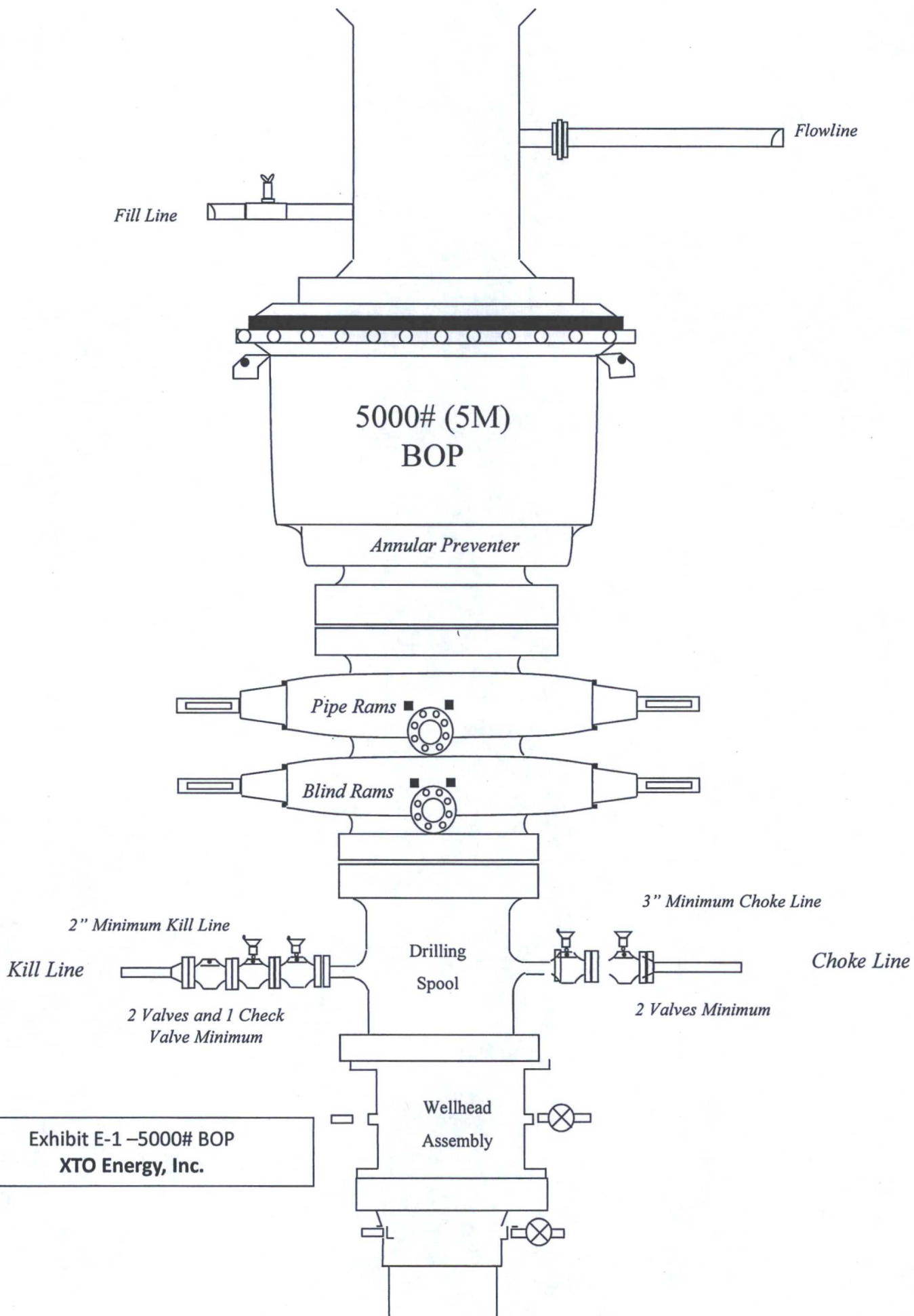
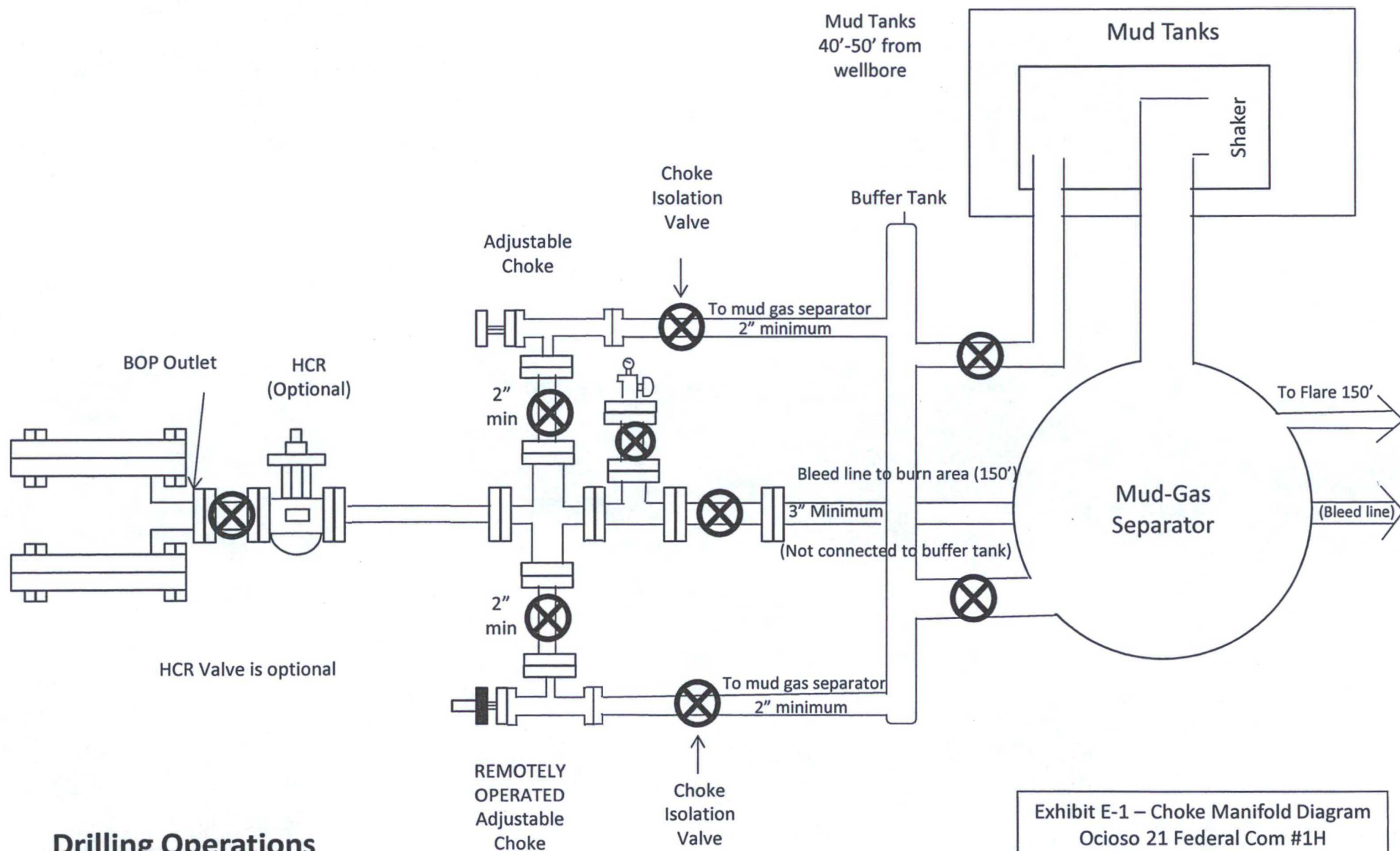


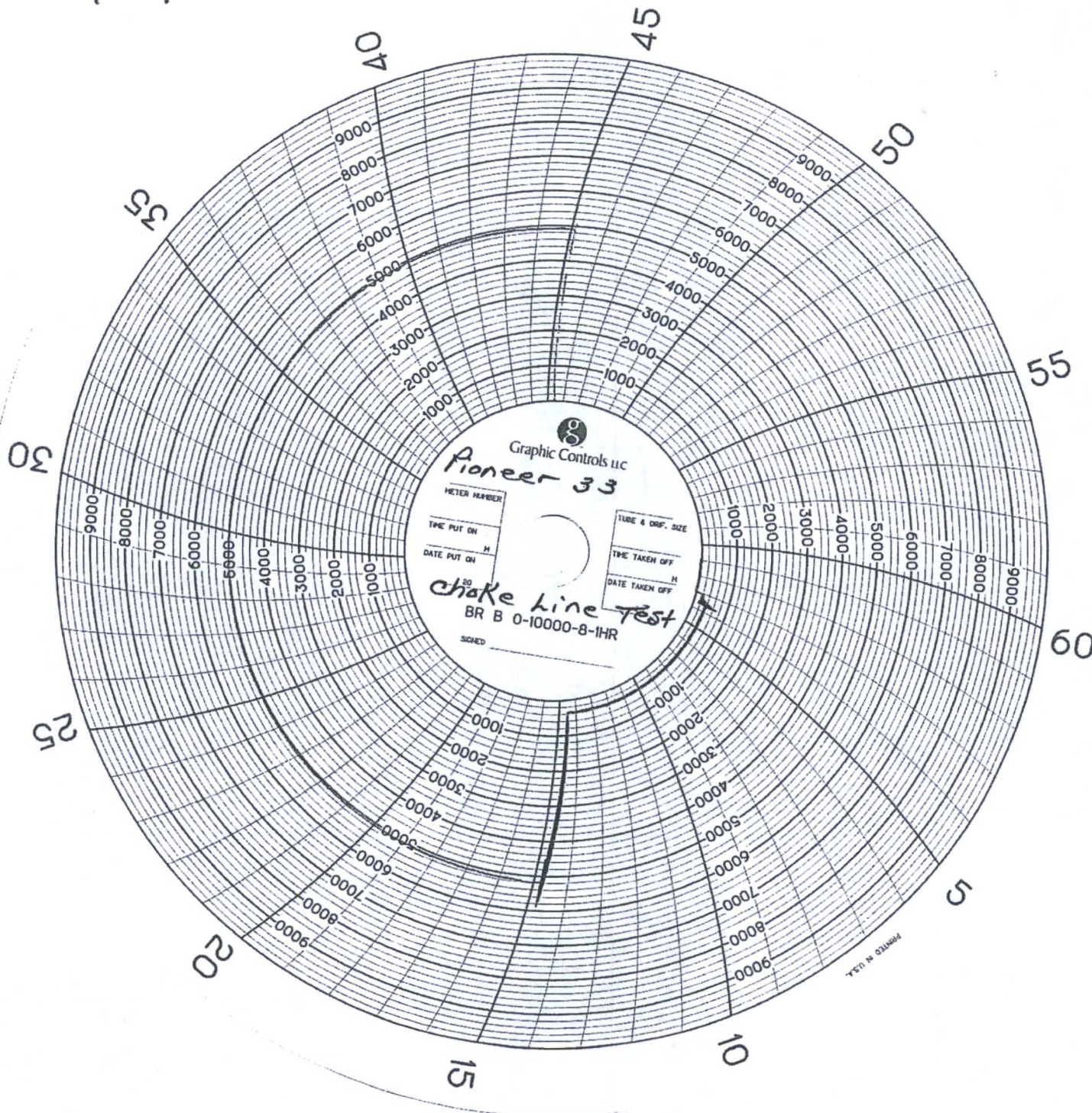
Exhibit E-1 –13 5/8" x 3000# BOP
 Ocoso 21 Federal Com #1H
 XTO Energy, Inc.

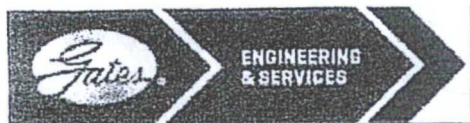




Drilling Operations Choke Manifold

Exhibit E-1 – Choke Manifold Diagram
Ocioso 21 Federal Com #1H
XTO Energy, Inc..





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

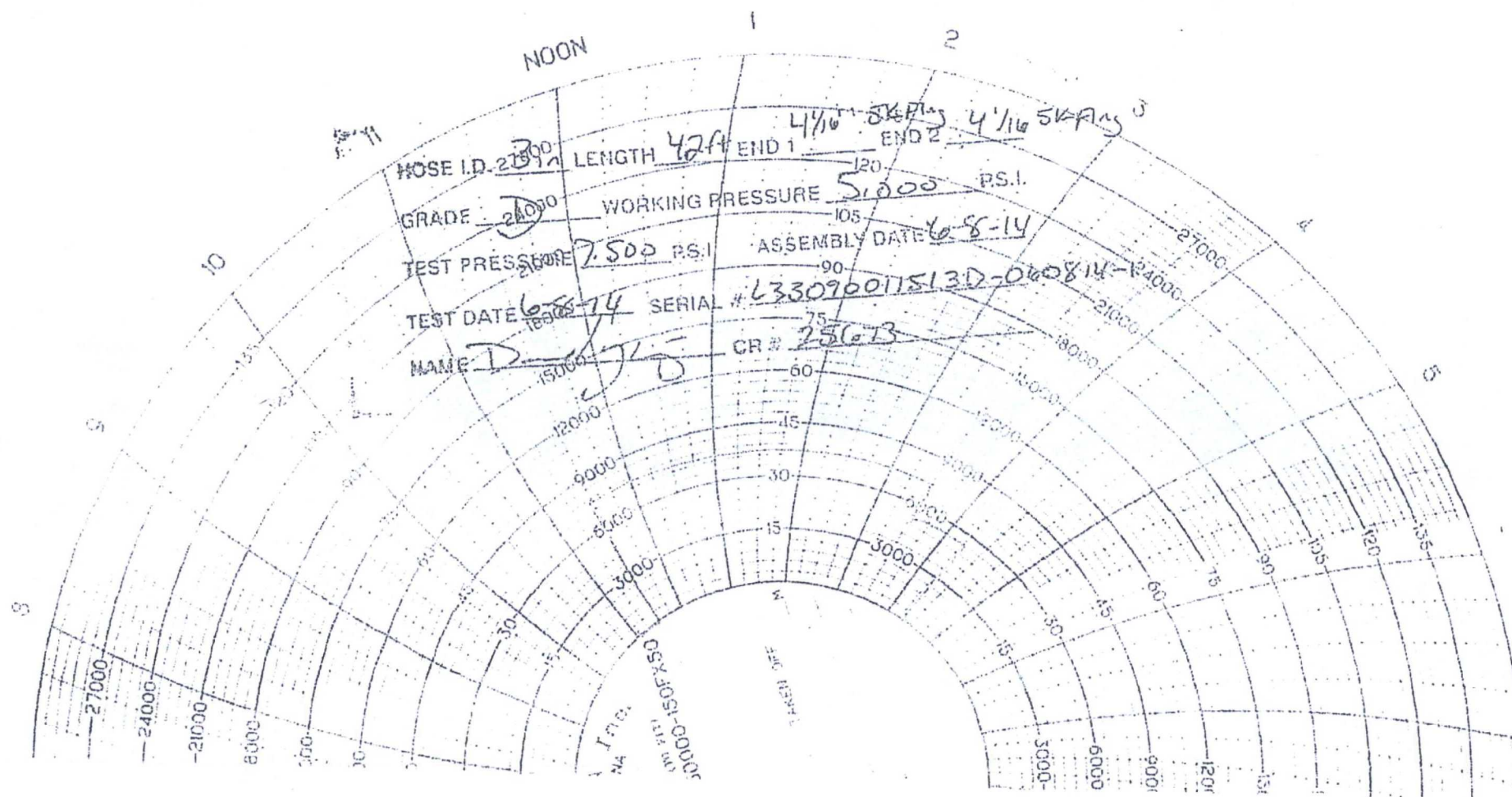
PHONE: 361-887-9807
FAX: 361-887-0812
EMAIL: crpe&s@gates.com
WEB: www.gates.com

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:	FD3.042.0R41/16.5KFLGE/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.

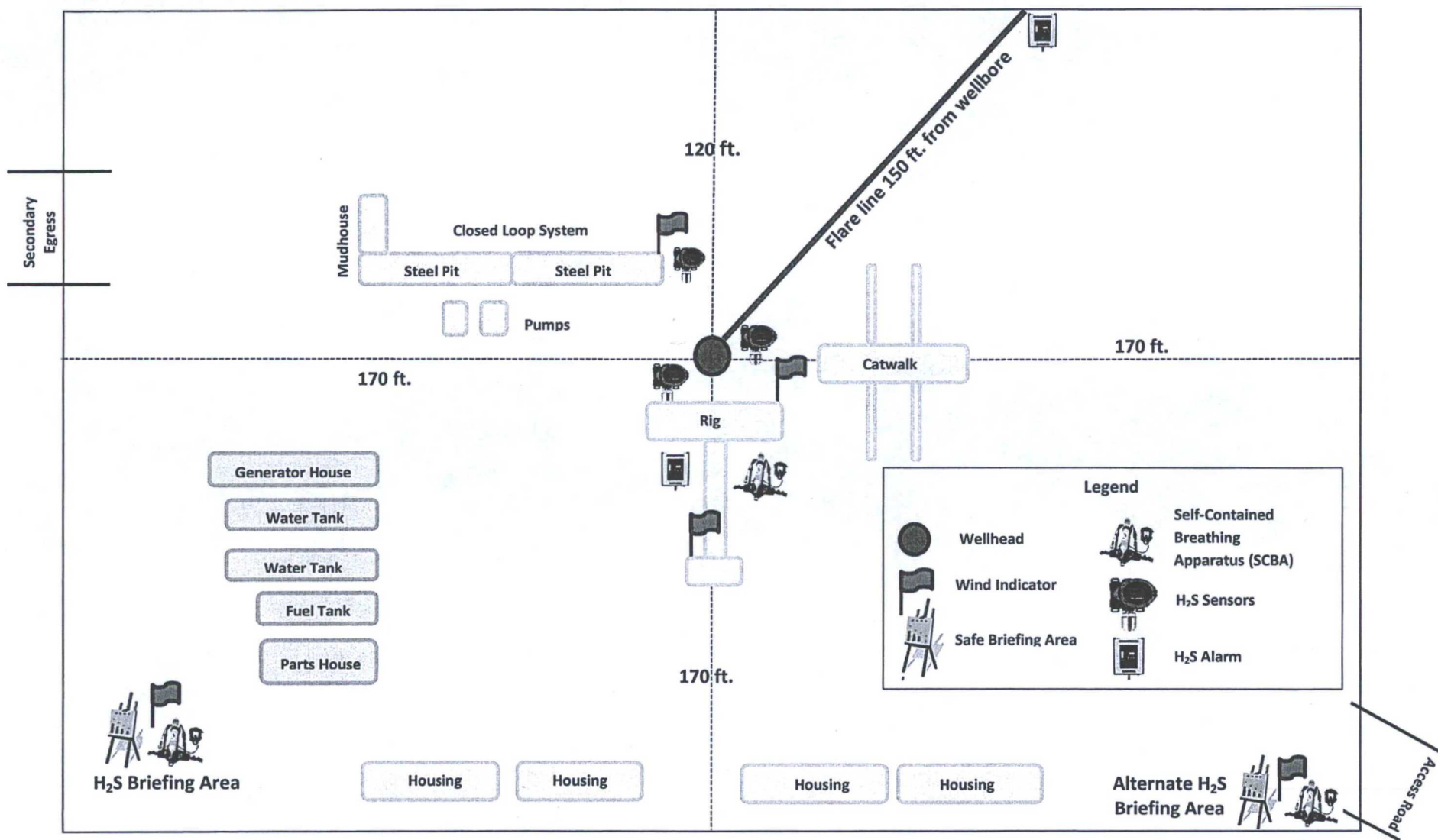
Quality:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	





Prevailing Winds
Direction SW

H2S Briefing Areas and Alarm Locations





May 30, 2015

Stephanie Rabadue
XTO Energy Inc.
500 W. Illinois St Ste 100
Midland, TX 79701
432-620-6714
stephanie_rabadue@xtoenergy.com

Bureau of Land Management
620 E. Greene
Carlsbad, NM 88220
575-887-6544

Dear Sirs:

XTO Energy Inc. does not anticipate encountering H₂S while drilling the Ociado 21 Federal Com #1H located in Section 28, T19S, R32E, in Lea County, New Mexico. As a precaution, I have attached an H₂S contingency plan along with a gas analysis of our well stream. If you need anything further, please contact me at the telephone number or email listed above.

Thank you,

Stephanie Rabadue

Stephanie Rabadue
Regulatory Analyst