

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM 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.
NMNM01206A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 27. If Unit or CA/Agreement, Name and/or No.
891000326X

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
BIG EDDY UNIT 29W VADER 102H

2. Name of Operator

XTO PERMIAN OPERATING LLC

Contact: KELLY KARDOS

E-Mail: kelly_kardos@xtoenergy.com

9. API Well No.

30-025-46541-00-X1

3a. Address

6401 HOLIDAY HILL ROAD, BLDG 5
MIDLAND, TX 79707

3b. Phone No. (include area code)

Ph: 432-620-4374

10. Field and Pool or Exploratory Area
WILDCAT BONE SPRING

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 16 T20S R32E SWSW 349FSL 295FWL
32.566963 N Lat, 103.778770 W Lon

11. County or Parish, State

LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

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 recompleat 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 recompleat 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 name from Big Eddy Unit DI 29 BS2-5W 365H to Big Eddy Unit 29W Vader 102H.

Change SHL from 358'FSL & 330'FWL to 349'FSL & 295'FWL ? No additional surface disturbance.

Change the drilling design per the attached.

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

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

Electronic Submission #494343 verified by the BLM Well Information System**For XTO PERMIAN OPERATING LLC, sent to the Hobbs****Committed to AFMSS for processing by PRISCILLA PEREZ on 12/06/2019 (20PP0553SE)**

Name (Printed/Typed) KELLY KARDOS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 12/03/2019

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By CODY LAYTON

Title ASSISTANT FIELD MANAGER

Date 12/13/2019

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.

Office Hobbs

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 ****

Revisions to Operator-Submitted EC Data for Sundry Notice #494343

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	APDCH NOI	APDCH NOI
Lease:	NMNM01206A	NMNM01206A
Agreement:	NMNM68294X	891000326X (NMNM068294X)
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: 4326828873
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: County:	NM LEA	NM LEA
Field/Pool:	SALT LAKE; BONE SPRING	WILDCAT BONE SPRING
Well/Facility:	BIG EDDY UNIT DI 29 BS2-5W 365H Sec 16 T20S R32E Mer NMP SWSW 358FSL 330FWL	BIG EDDY UNIT 29W VADER 102H Sec 16 T20S R32E SWSW 349FSL 295FWL 32.566963 N Lat, 103.778770 W Lon

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 30-025- 46541		² Pool Code	³ Pool Name
⁴ Property Code	⁵ Property Name BIG EDDY UNIT 29W VADER		⁶ Well Number 102H
⁷ OGRID No. 373075	⁸ Operator Name XTO PERMIAN OPERATING, LLC.		⁹ Elevation 3,513'

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
M	16	20 S	32 E		349	SOUTH	295	WEST	LEA

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	18	20 S	32 E		1,980	SOUTH	50	WEST	LEA

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

¹⁶ SEC. 12 SEC. 7 SEC. 8 SEC. 9 SEC. 13 SEC. 18 SEC. 17 SEC. 16 T20S R31E T20S R32E 				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. Kelly Kardos Signature _____ Date _____ Printed Name _____ E-mail Address _____	
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. 11-06-2019 Date of Survey Signature and Seal of Professional Surveyor:				MARK DILLON HARP 23786 Certificate Number LB 2019072120	

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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

XTO Energy Inc.
BEU 29W Vader 102H
Projected TD: 20645' MD / 9693' TVD
SHL: 349' FSL & 295' FWL , Section 16, T20S, R32E
BHL: 1980' FSL & 50' FWL , Section 18, T20S, R32E
Lea County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	915'	Water
Top of Salt	1270'	Water
Base of Salt	2430'	Water
Capitan	2862'	Water
Delaware	4888'	Water
Bone Spring	7690'	Water/Oil/Gas
1st Bone Spring Ss	8807'	Water/Oil/Gas
2nd Bone Spring Ss	9327'	Water/Oil/Gas
2nd Bone Spring Ss B	9628'	Water/Oil/Gas
Target/Land Curve	9693'	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 18-5/8 inch casing @ 1090' (180' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 2480' and circulating cement to surface. The Capitan Reef zone will be isolated by setting 9-5/8 inch casing at 4990'. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to the 13-3/8 inch casing shoe depth.

Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
24"	0' – 1090'	18-5/8"	87.5#	STC	H-40	New	2.12	1.26	5.86
17-1/2"	0' – 2480'	13-3/8"	54.5#	STC	J-55	New	2.35	1.45	3.80
12-1/4"	0' – 4990'	9-5/8"	36#	LTC	J-55	New	1.38	1.71	2.52
8-3/4" x 8-1/2"	0' – 20645'	5-1/2"	17#	BTC	P-110	New	1.12	1.60	2.32

- XTO requests to not utilize centralizers in the curve and lateral.
- 13-3/8" & 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:

Temporary Wellhead

- 18-5/8" SOW bottom x 21-1/4" 2M top flange.

Permanent Wellhead – GE RSH Multibowl System

- Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- 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 BLM Onshore Order 2
 - Wellhead manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5# New H-40, STC casing to be set at +/- 1090'

Lead: 1430 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 560 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

1st Intermediate Casing: 13-3/8", 54.5# New J-55, STC casing to be set at +/- 2480'

Lead: 1430 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft³/sx, 10.13 gal/sx water)
 Tail: 560 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

2nd Intermediate Casing: 9-5/8", 36# New J-55, LTC casing to be set at +/- 4990'

ECP/DV Tool to be set at 2790'

1st Stage

Lead: 390 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)
 Tail: 470 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 100 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft³/sx, 9.61 gal/sx water)
 Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft³/sx, 6.39 gal/sx water)
 Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 5-1/2", 17# New P-110, BTC casing to be set at +/- 20645'

Lead: 790 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft³/sx, 12.26 gal/sx water)
 Tail: 2210 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft³/sx, 8.38 gal/sx water)
 Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for surf casing / temp. wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 770 psi.

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M 3-Ram BOP. MASP should not exceed 2555 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure but no greater than casing 70% burst. When nipping up on the 13-5/8" 3M bradenhead and flange, the BOP test will be limited to 3000 psi. 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.

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.

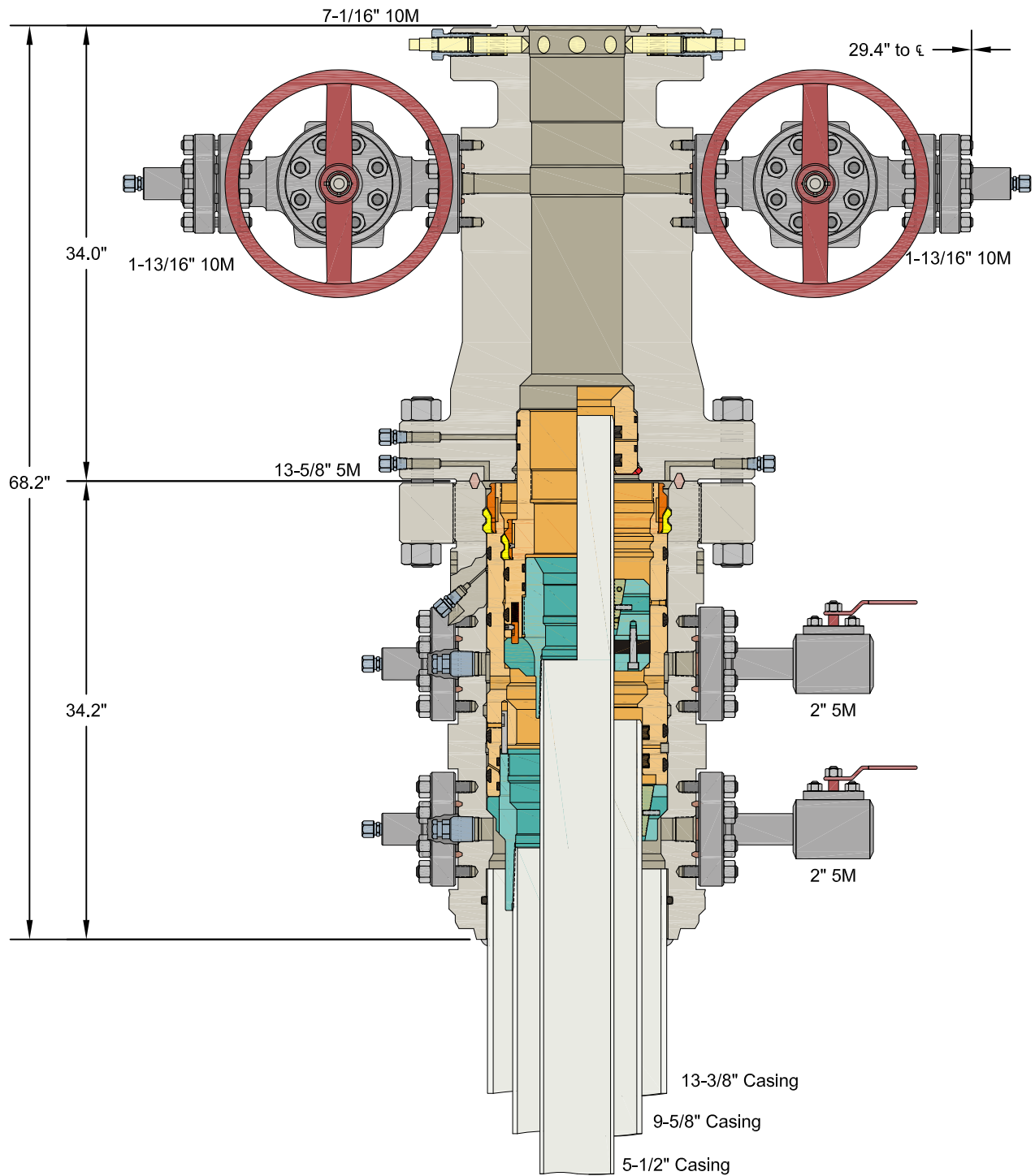
6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 1090'	24"	FW/Native	8.3 - 9.5	35-40	NC
1090' - 2480'	17-1/2"	Brine	9.8-10.2	30-35	NC
2480' to 4990'	12-1/4"	FW / Cut Brine	8.3-9.0	30-32	NC
4990' to 20645'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer	9 - 9.3	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 18-5/8" 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.



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

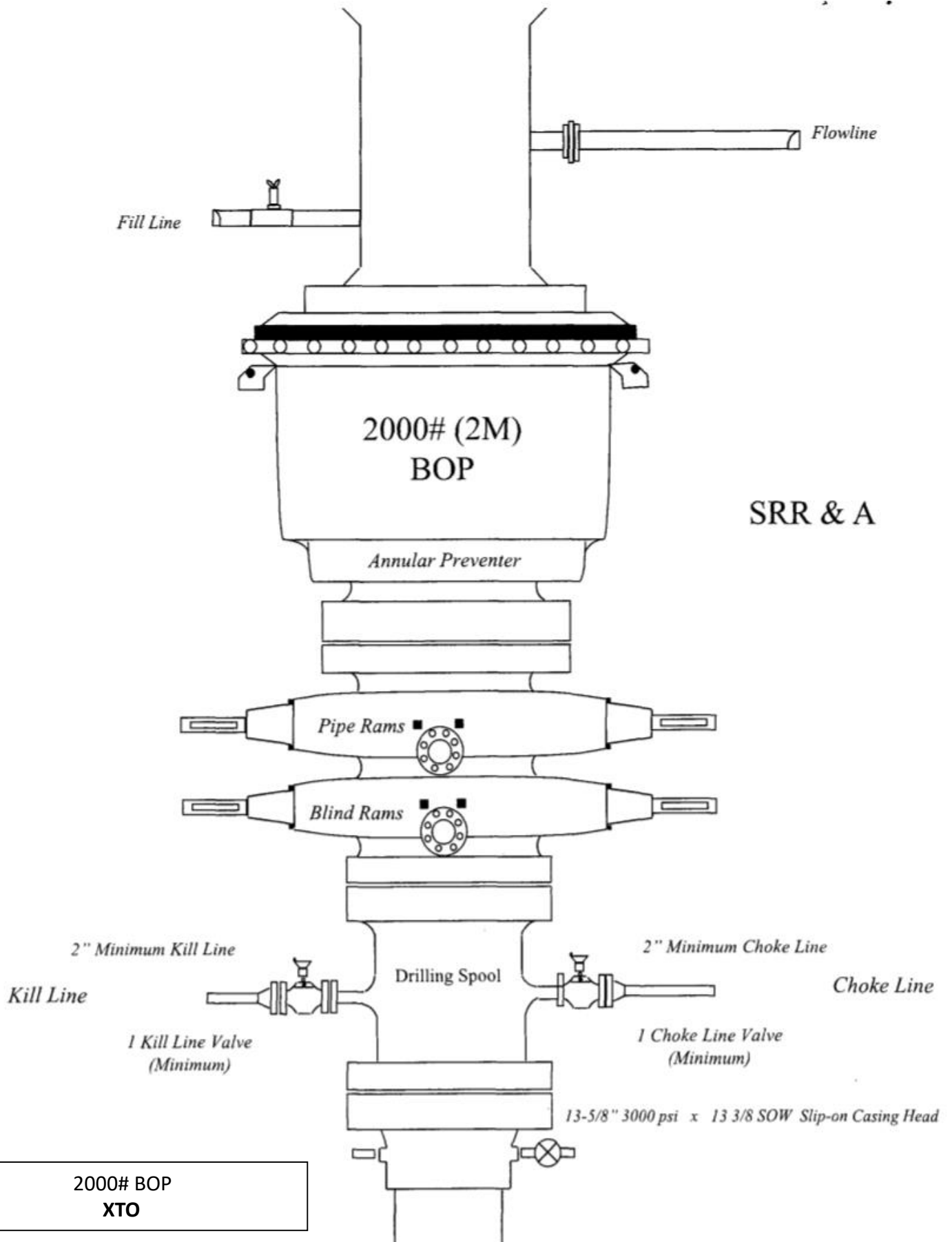
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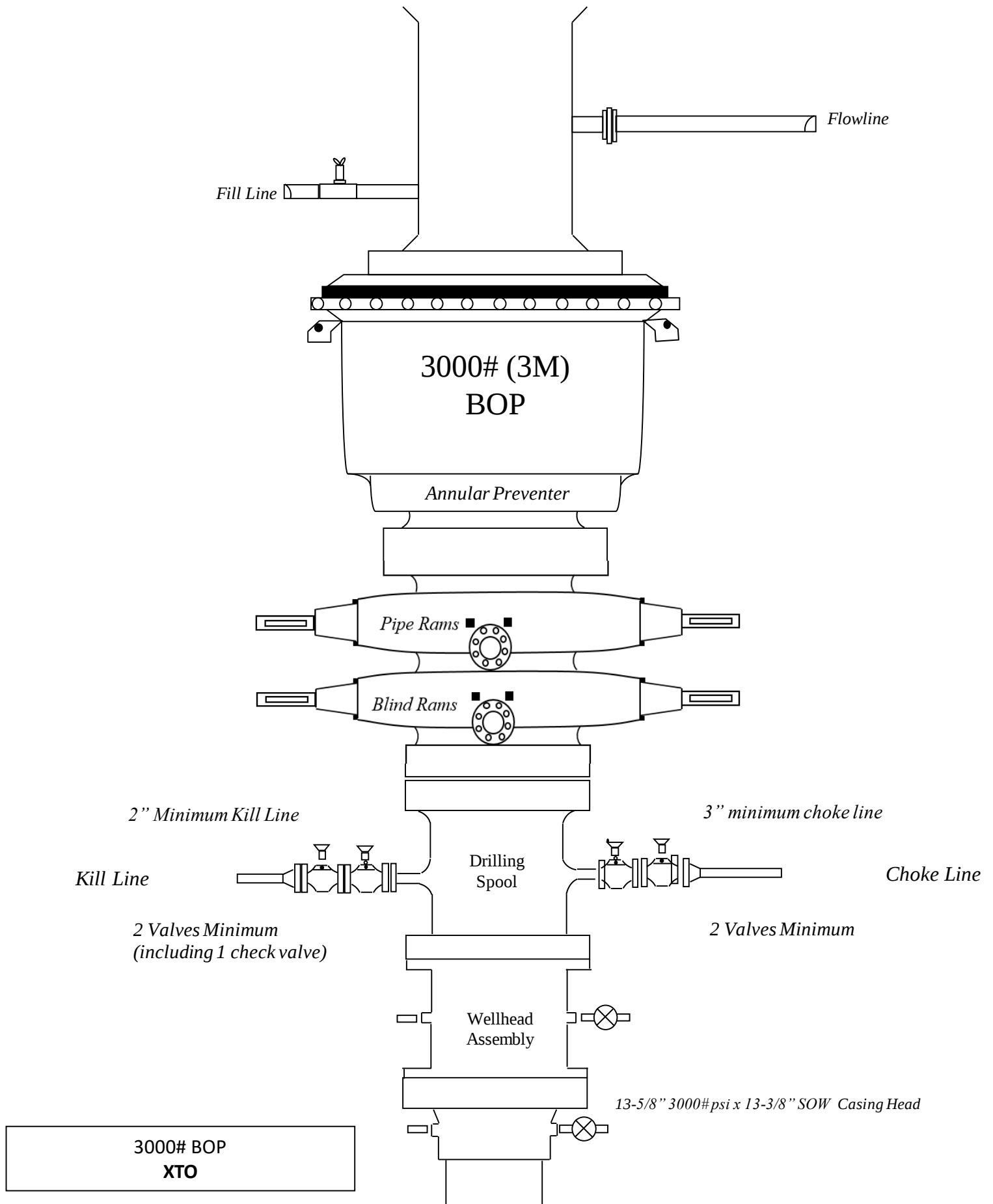
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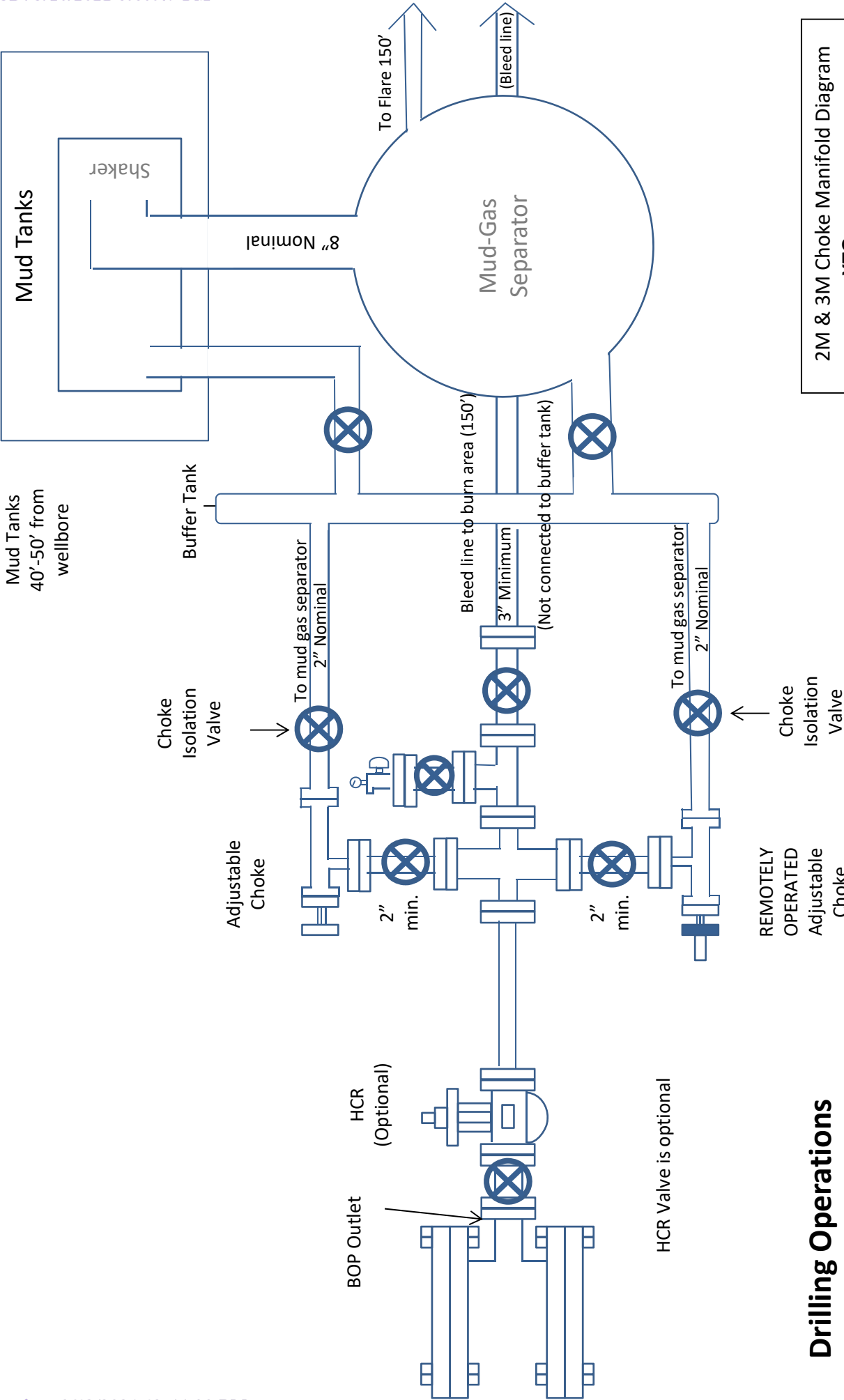
FOR REFERENCE ONLY

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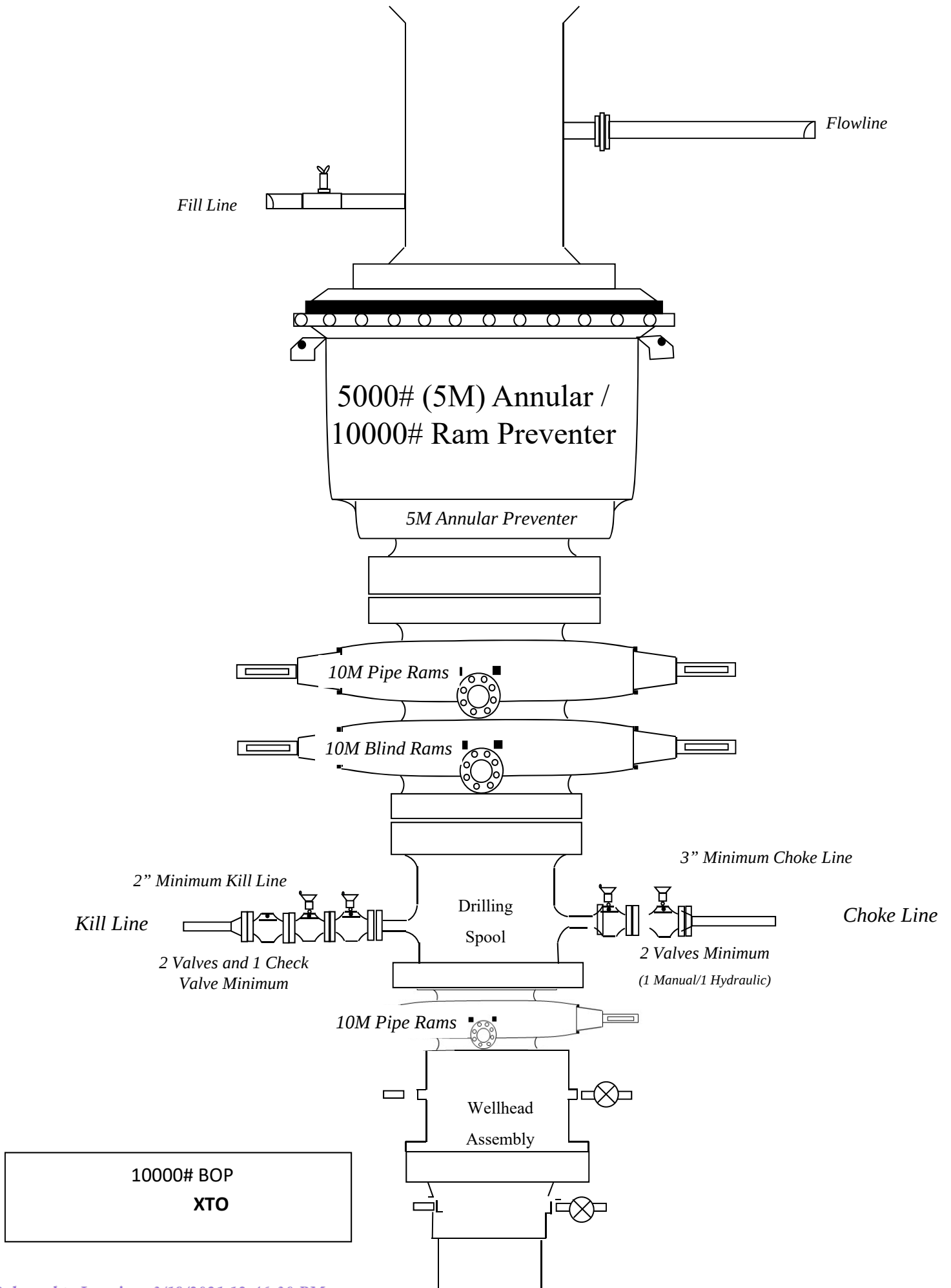
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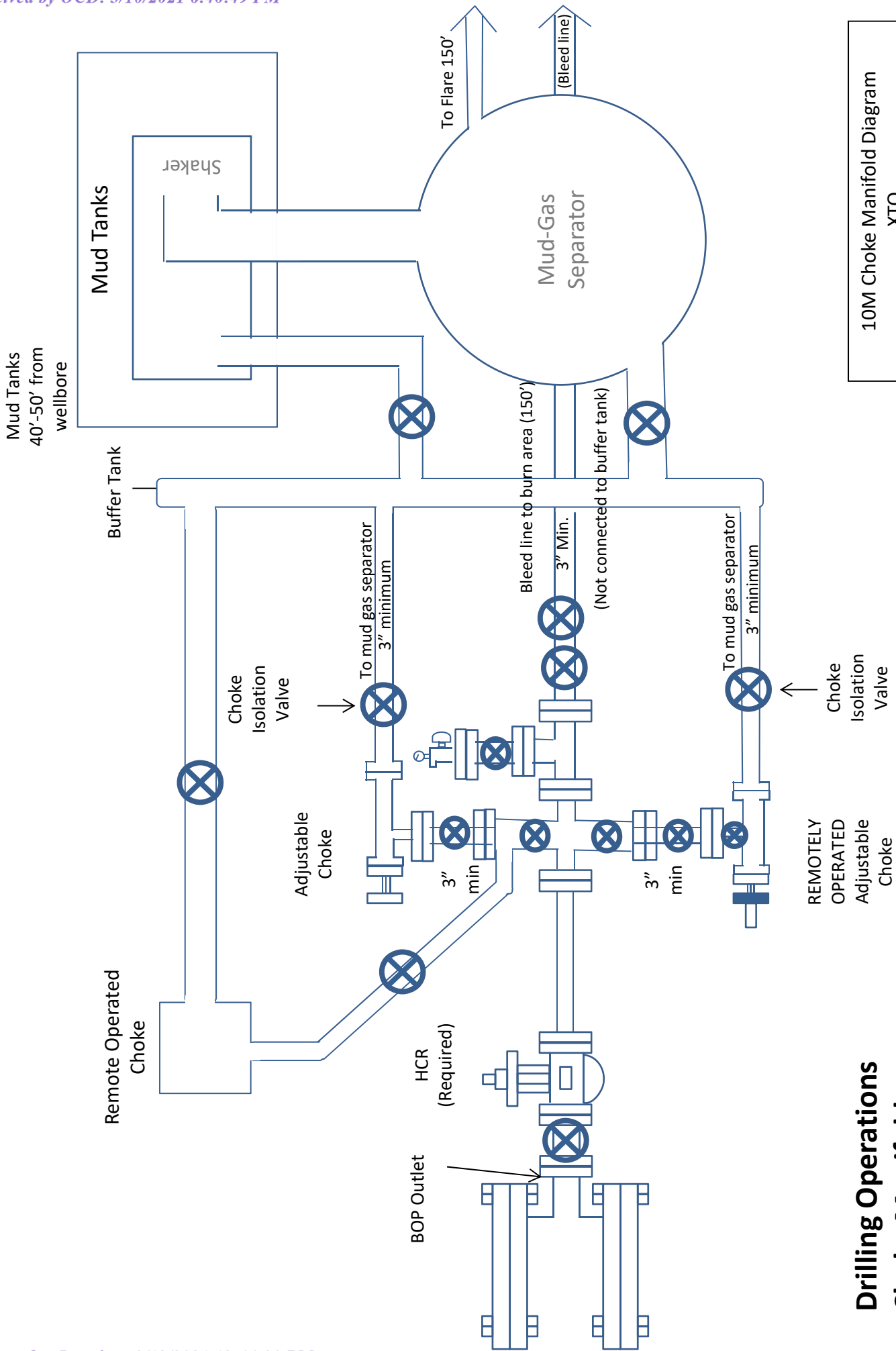






**Drilling Operations
Choke Manifold
2M & 3M Service**





**Drilling Operations
Choke Manifold
10M Service**

10,000 PSI Annular BOP Variance Request

XTO Energy/XTO Permian Op. request a variance to use a 5000 psi annular BOP with a 10,000 psi BOP stack. The component and compatibility tables along with the general well control plans demonstrate how the 5000 psi annular BOP will be protected from pressures that exceed its rated working pressure (RWP). The pressure at which the control of the wellbore is transferred from the annular preventer to another available preventer will not exceed 3500 psi (70% of the RWP of the 5000 psi annular BOPL).

1. Component and Preventer Compatibility Tables

The tables below outline the tubulars and the compatible preventers in use. This table, combined with the drilling fluid, documents that two barriers to flow will be maintained at all times.

8-1/2" Production Hole Section 10M psi Requirement					
Component	OD	Primary Preventer	RWP	Alternate Preventer(s)	RWP
Drillpipe	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
HWDP	5.000" or 4.500"	Annular	5M	Upper 3.5"-5.5" VBR Lower 3.5"-5.5" VBR	10M 10M
Jars	6.500"	Annular	5M	-	-
DCs and MWD tools	6.500"-8.000"	Annular	5M	-	-
Mud Motor	6.750"-8.000"	Annular	5M	-	-
Production Casing	5-1/2"	Annular	5M	-	-
Open-Hole	-	Blind Rams	10M	-	-

2. Well Control Procedures

Below are the minimal high-level tasks prescribed to assure a proper shut-in while drilling, tripping, running casing, pipe out of the hole (open hole), and moving the BHA through the BOPs. At least one well control drill will be performed weekly per crew to demonstrate compliance with the procedure and well control plan. The well control drill will be recorded in the daily drilling log. The type of drill will be determined by the ongoing operations, but reasonable attempts will be made to vary the type of drill conducted (pit, trip, open hole, choke, etc.). This well control plan will be available for review by rig personnel in the XTO Energy/Permian Operating drilling supervisor's office on location and on the rig floor. All BOP equipment will be tested as per Onshore O&G Order No. 2 with the exception of the 5000 psi annular which will be tested to 70% of its RWP.

General Procedure While Drilling

1. Sound alarm (alert crew)
2. Space out drill string
3. Shut down pumps (stop pumps and rotary)
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan

9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Tripping

1. Sound alarm (alert crew)
2. Stab full-opening safety valve & close
3. Space out drill string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

General Procedure While Running Production Casing

1. Sound alarm (alert crew)
2. Stab crossover and full-opening safety valve and close
3. Space out string
4. Shut-in well (uppermost applicable BOP, typically annular preventer, first. HCR & choke will already be in the closed position.)
5. Confirm shut-in
6. Notify toolpusher/company representative
7. Read and record the following:
 - a. SIDPP & SICP
 - b. Pit gain
 - c. Time
8. Regroup and identify forward plan
9. If pressure has built or is anticipated during the kill to reach 70% or greater of the RWP of the annular preventer, confirm spacing and close the upper variable bore rams.

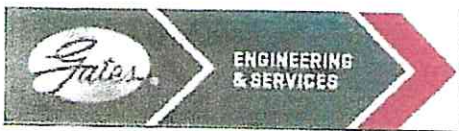
General Procedure With No Pipe In Hole (Open Hole)

1. Sound alarm (alert crew)
2. Shut-in with blind rams (HCR & choke will already be in the closed position)
3. Confirm shut-in
4. Notify toolpusher/company representative
5. Read and record the following:
 - a. SICP
 - b. Pit gain
 - c. Time
6. Regroup and identify forward plan

General Procedures While Pulling BHA Through Stack

1. PRIOR to pulling last joint of drillpipe through stack:
 - a. Perform flow check. If flowing, continue to (b).
 - b. Sound alarm (alert crew)
 - c. Stab full-opening safety valve and close
 - d. Space out drill string with tool joint just beneath the upper variable bore rams
 - e. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - f. Confirm shut-in
 - g. Notify toolpusher/company representative
 - h. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - i. Regroup and identify forward plan
2. With BHA in the stack and compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. Stab crossover and full-opening safety valve and close
 - c. Space out drill string with upset just beneath the upper variable bore rams
 - d. Shut-in using upper variable bore rams (HCR & choke will already be in the closed position)
 - e. Confirm shut-in
 - f. Notify toolpusher/company representative
 - g. Read and record the following:
 - i. SIDPP & SICP

- ii. Pit gain
 - iii. Time
- h. Regroup and identify forward plan
- 3. With BHA in the stack and NO compatible ram preventer and pipe combination immediately available:
 - a. Sound alarm (alert crew)
 - b. If possible, pull string clear of the stack and follow "Open Hole" procedure.
 - c. If impossible to pull string clear of the stack:
 - d. Stab crossover, make up one joint/stand of drillpipe and full-opening safety valve and close
 - e. Space out drill string with tooljoint just beneath the upper variable bore ram
 - f. Shut-in using upper variable bore ram (HCR & choke will already be in the closed position)
 - g. Confirm shut-in
 - h. Notify toolpusher/company representative
 - i. Read and record the following:
 - i. SIDPP & SICP
 - ii. Pit gain
 - iii. Time
 - j. Regroup and identify forward plan



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

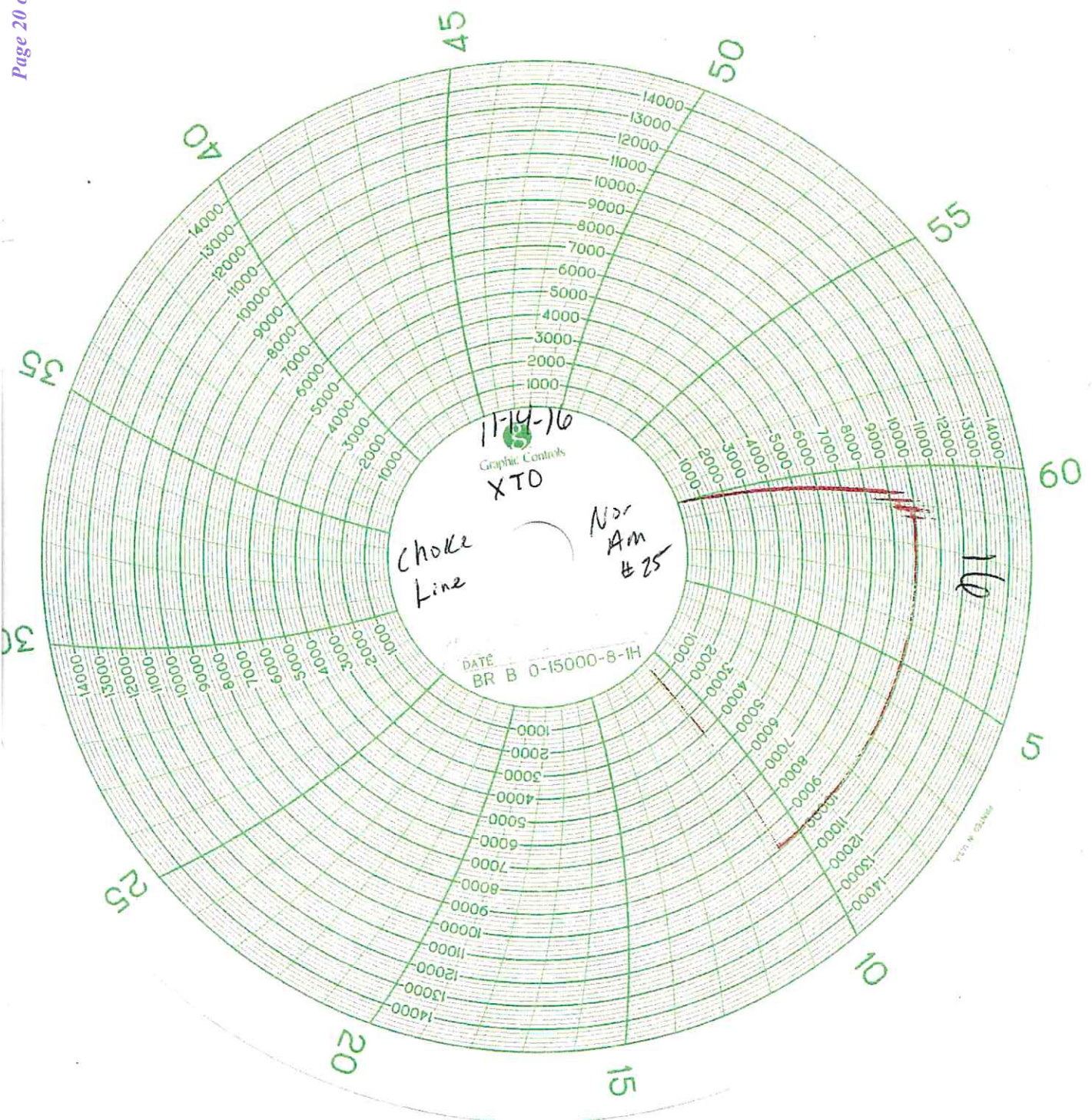
GRADE D PRESSURE TEST CERTIFICATE

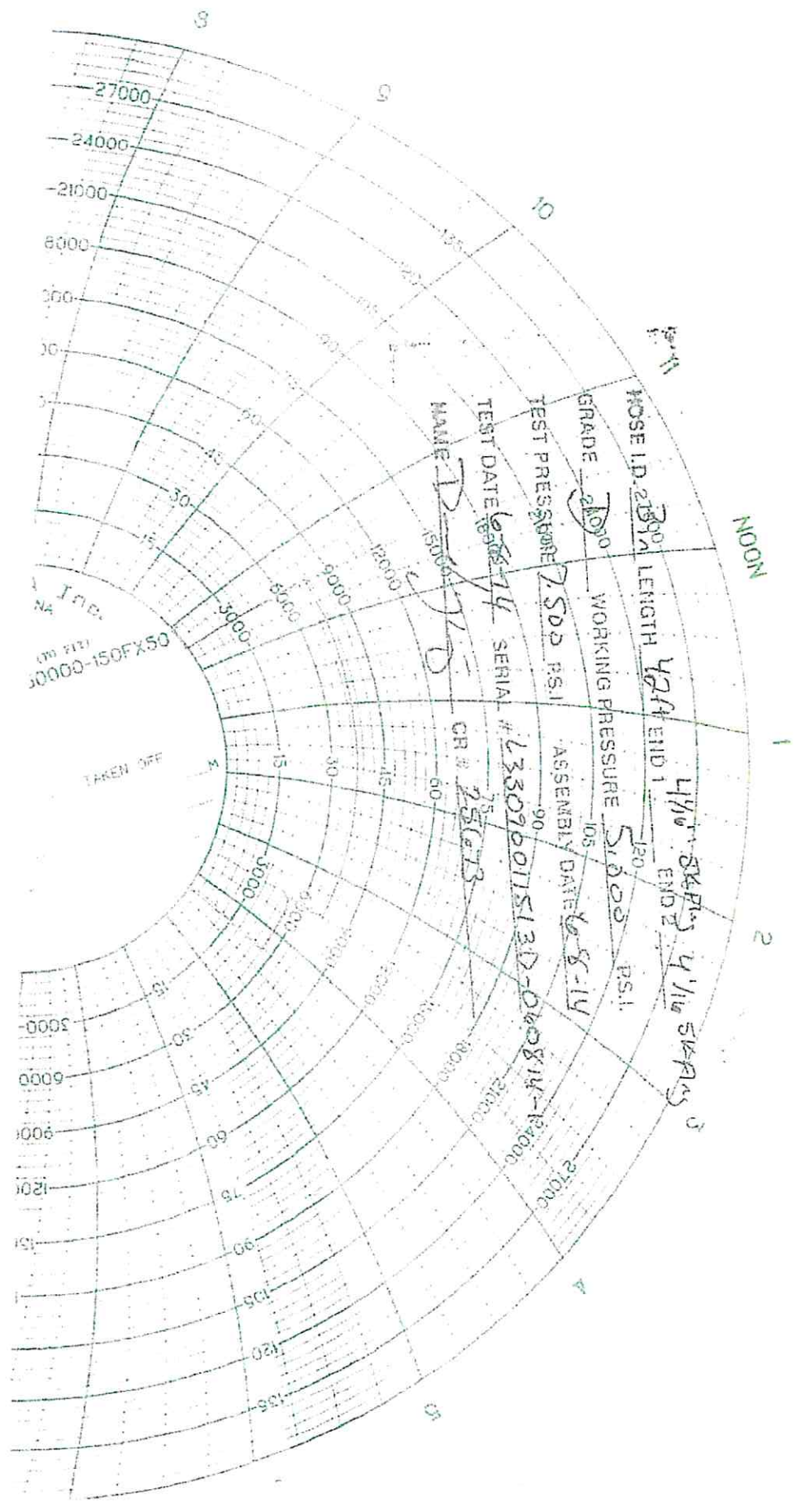
Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	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 :	

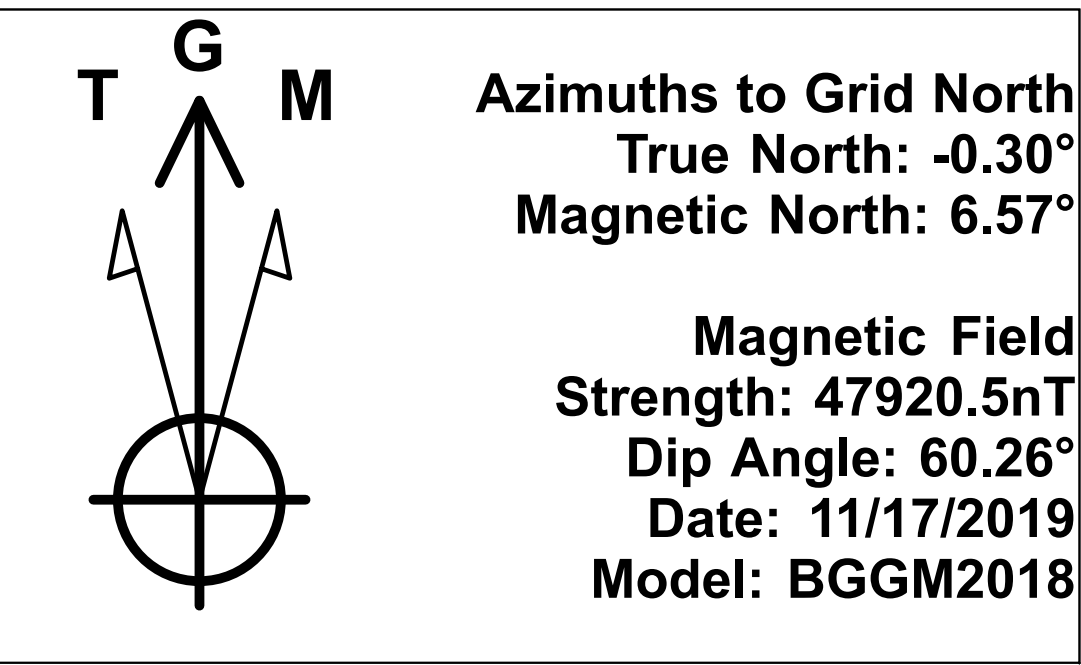
Form PTC - 01 Rev.0 2







XTO Energy Inc.



RKB (Akita 90) 30' + GL(3513') @ 3543.00usft

3513.00

WELL DETAILS

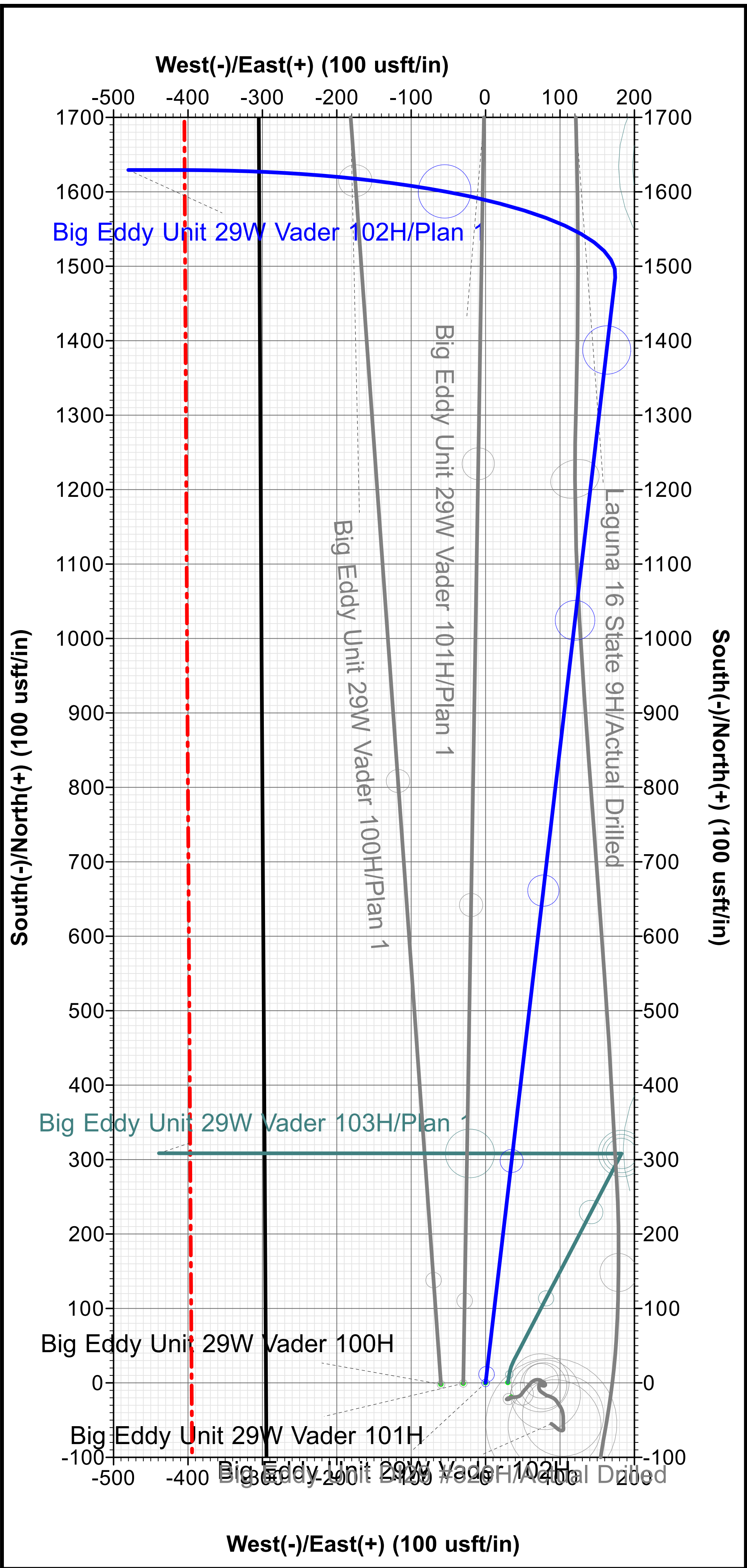
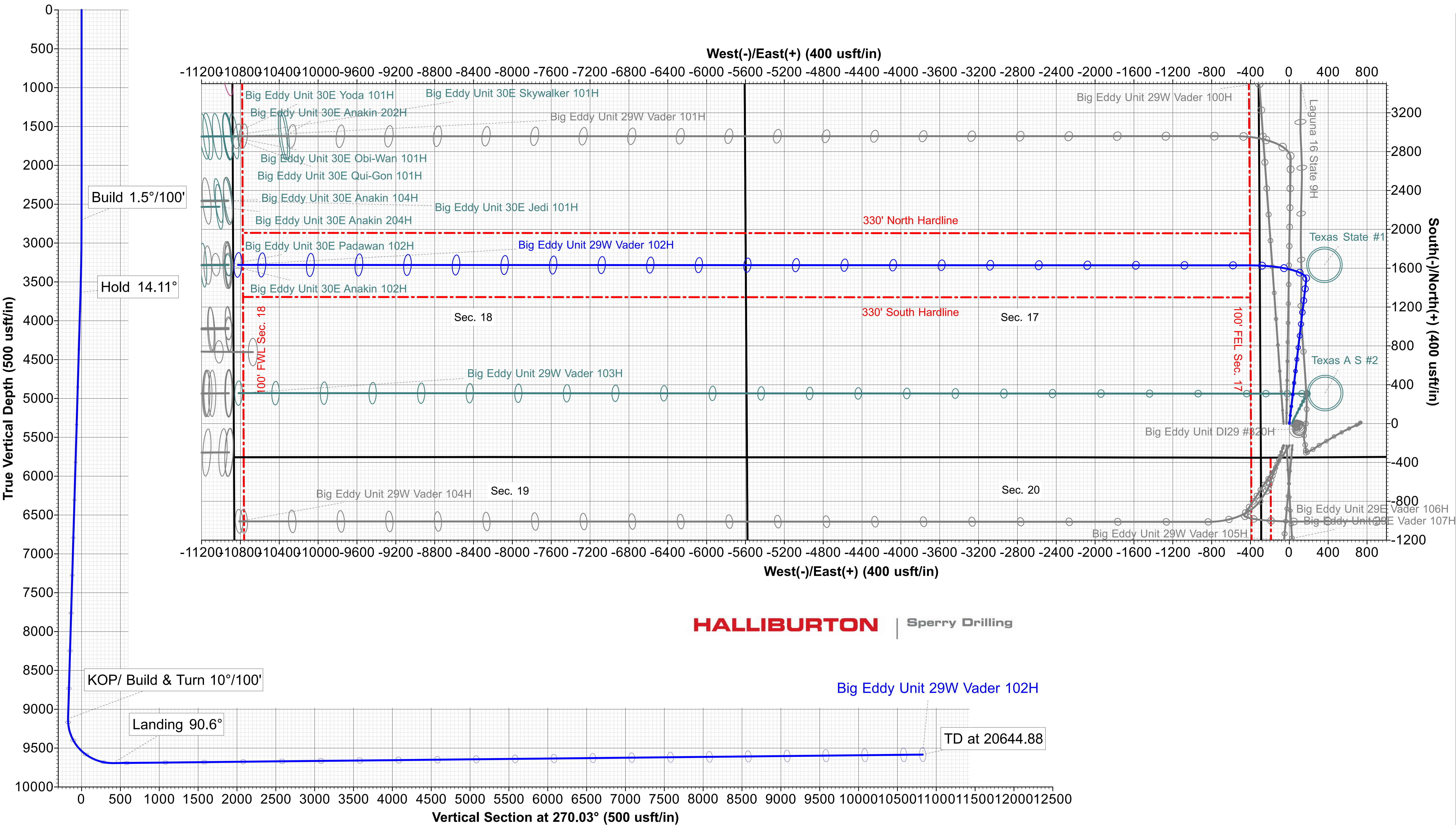
				3513.00					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude				
0.00	0.00	570365.90	670966.10	32.56681775	-103.77838303				

Plan 1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	Build 1.5°/100'
3640.46	14.11	6.69	3630.99	114.41	13.43	1.50	6.69	-13.37	Hold 14.11°
9301.97	14.11	6.69	9121.76	1484.89	174.28	0.00	0.00	-173.50	KOP/ Build & Turn 10°/100'
10224.01	90.60	270.03	9693.00	1629.30	-404.20	10.00	-96.32	405.05	Landing 90.6°
20644.88	90.60	270.03	9584.00	1633.90	-10824.50	0.00	0.00	10825.35	TD at 20644.88

DESIGN TARGET DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Vader 102H BHL (1980' FSL - 50' FWL)	1633.90	-10824.50	571999.80	660141.60	32.57145912	-103.81349180
Vader 102H FTP (1980' FSL - 100' FEL)	1629.30	-404.20	571995.20	670561.90	32.57130201	-103.77966748
Vader 102H LTP (1980' FSL - 100' FWL)	1633.90	-10774.50	571999.80	660191.60	32.57145844	-103.81332950



XTO Energy Inc.

Lea County, NM (NAD27) Big Eddy Unit 29 Pad (Grid)

API#

Big Eddy Unit 29W Vader 102H

SHL: (349' FSL - 295' FWL)

Wellbore #1

Plan: Plan 1

Please review plan for SCC Application or Non-Mag Spacing.

Highlighted plan sections are within the Short Collar Correction (SCC) Instability Zone

Sperry Drilling Services

Combo Report

02 December, 2019

Well Coordinates: 32.56681775
-103.77838303

NAD 1927 (NADCON CONUS)
New Mexico East 3001
570,365.90 N
670,966.10 E

Ground Level: 3,513.00 usft

Local Coordinate Origin:

Centered on Well Big Eddy Unit 29W Vader 102H

Viewing Datum:

RKB (Akita 90) 30' + GL(3513') @ 3543.00usft

TVDs to System:

N

North Reference:

Grid

Unit System:

Midcon (2 decimal)

Version: 5000.15 Build: 91E

Report Version: Midcon Combo v1.14

HALLIBURTON

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
0.00	0.00	0.00	0.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
915.00	0.00	0.00	915.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	Rustler
1,000.00	0.00	0.00	1,000.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	18 3/4"
1,200.00	0.00	0.00	1,200.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,270.00	0.00	0.00	1,270.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	Salado/Top of Salt
1,300.00	0.00	0.00	1,300.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,430.00	0.00	0.00	2,430.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	Base of Salt
2,500.00	0.00	0.00	2,500.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	13 3/8"
2,600.00	0.00	0.00	2,600.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00 N	0.00 E	570,365.90	670,966.10	0.00	0.00	0.00	Build 1.5°/100'
2,800.00	1.50	6.69	2,799.99	1.30 N	0.15 E	570,367.20	670,966.25	1.50	-0.15	6.69	
2,862.05	2.43	6.69	2,862.00	3.41 N	0.40 E	570,369.31	670,966.50	1.50	-0.40	0.00	Capitan Reef
2,900.00	3.00	6.69	2,899.91	5.20 N	0.61 E	570,371.10	670,966.71	1.50	-0.61	0.00	
3,000.00	4.50	6.69	2,999.69	11.69 N	1.37 E	570,377.59	670,967.47	1.50	-1.37	0.00	
3,100.00	6.00	6.69	3,099.27	20.78 N	2.44 E	570,386.68	670,968.54	1.50	-2.43	0.00	

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured		Grid	Vertical	Local Coordinates		Map Coordinates		Dogleg	Vertical	Toolface	
Depth	Inclination	Azimuth	Depth	Northing	Easting	Northing	Easting	Rate	Section	Angle	Comments
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(usft)	(°)	
3,200.00	7.50	6.69	3,198.57	32.46 N	3.81 E	570,398.36	670,969.91	1.50	-3.79	0.00	
3,300.00	9.00	6.69	3,297.54	46.71 N	5.48 E	570,412.61	670,971.58	1.50	-5.46	0.00	
3,400.00	10.50	6.69	3,396.09	63.53 N	7.46 E	570,429.43	670,973.56	1.50	-7.42	0.00	
3,500.00	12.00	6.69	3,494.16	82.90 N	9.73 E	570,448.80	670,975.83	1.50	-9.69	0.00	
3,600.00	13.50	6.69	3,591.70	104.82 N	12.30 E	570,470.72	670,978.40	1.50	-12.25	0.00	
3,640.46	14.11	6.69	3,630.99	114.41 N	13.43 E	570,480.31	670,979.53	1.50	-13.37	0.00	Hold 14.11°
3,700.00	14.11	6.69	3,688.73	128.82 N	15.12 E	570,494.72	670,981.22	0.00	-15.05	0.00	
3,800.00	14.11	6.69	3,785.72	153.03 N	17.96 E	570,518.93	670,984.06	0.00	-17.88	0.00	
3,900.00	14.11	6.69	3,882.70	177.23 N	20.80 E	570,543.13	670,986.90	0.00	-20.71	0.00	
4,000.00	14.11	6.69	3,979.68	201.44 N	23.64 E	570,567.34	670,989.74	0.00	-23.54	0.00	
4,100.00	14.11	6.69	4,076.67	225.65 N	26.48 E	570,591.55	670,992.58	0.00	-26.37	0.00	
4,200.00	14.11	6.69	4,173.65	249.86 N	29.33 E	570,615.76	670,995.43	0.00	-29.19	0.00	
4,300.00	14.11	6.69	4,270.64	274.06 N	32.17 E	570,639.96	670,998.27	0.00	-32.02	0.00	
4,400.00	14.11	6.69	4,367.62	298.27 N	35.01 E	570,664.17	671,001.11	0.00	-34.85	0.00	
4,500.00	14.11	6.69	4,464.61	322.48 N	37.85 E	570,688.38	671,003.95	0.00	-37.68	0.00	
4,600.00	14.11	6.69	4,561.59	346.68 N	40.69 E	570,712.58	671,006.79	0.00	-40.51	0.00	
4,700.00	14.11	6.69	4,658.57	370.89 N	43.53 E	570,736.79	671,009.63	0.00	-43.34	0.00	
4,800.00	14.11	6.69	4,755.56	395.10 N	46.37 E	570,761.00	671,012.47	0.00	-46.17	0.00	
4,900.00	14.11	6.69	4,852.54	419.30 N	49.21 E	570,785.20	671,015.31	0.00	-48.99	0.00	
4,936.56	14.11	6.69	4,888.00	428.16 N	50.25 E	570,794.06	671,016.35	0.00	-50.03	0.00	Delaware Sand
5,000.00	14.11	6.69	4,949.53	443.51 N	52.06 E	570,809.41	671,018.16	0.00	-51.82	0.00	
5,052.04	14.11	6.69	5,000.00	456.11 N	53.53 E	570,822.01	671,019.63	0.00	-53.29	0.00	9 5/8"
5,100.00	14.11	6.69	5,046.51	467.72 N	54.90 E	570,833.62	671,021.00	0.00	-54.65	0.00	
5,123.19	14.11	6.69	5,069.00	473.33 N	55.56 E	570,839.23	671,021.66	0.00	-55.31	0.00	Manzanita Marker
5,200.00	14.11	6.69	5,143.50	491.93 N	57.74 E	570,857.83	671,023.84	0.00	-57.48	0.00	
5,300.00	14.11	6.69	5,240.48	516.13 N	60.58 E	570,882.03	671,026.68	0.00	-60.31	0.00	
5,400.00	14.11	6.69	5,337.46	540.34 N	63.42 E	570,906.24	671,029.52	0.00	-63.14	0.00	
5,500.00	14.11	6.69	5,434.45	564.55 N	66.26 E	570,930.45	671,032.36	0.00	-65.97	0.00	
5,600.00	14.11	6.69	5,531.43	588.75 N	69.10 E	570,954.65	671,035.20	0.00	-68.79	0.00	
5,700.00	14.11	6.69	5,628.42	612.96 N	71.94 E	570,978.86	671,038.04	0.00	-71.62	0.00	
5,800.00	14.11	6.69	5,725.40	637.17 N	74.78 E	571,003.07	671,040.88	0.00	-74.45	0.00	
5,900.00	14.11	6.69	5,822.38	661.38 N	77.63 E	571,027.28	671,043.73	0.00	-77.28	0.00	
6,000.00	14.11	6.69	5,919.37	685.58 N	80.47 E	571,051.48	671,046.57	0.00	-80.11	0.00	
6,100.00	14.11	6.69	6,016.35	709.79 N	83.31 E	571,075.69	671,049.41	0.00	-82.94	0.00	
6,200.00	14.11	6.69	6,113.34	734.00 N	86.15 E	571,099.90	671,052.25	0.00	-85.76	0.00	
6,207.90	14.11	6.69	6,121.00	735.91 N	86.37 E	571,101.81	671,052.47	0.00	-85.99	0.00	Brushy Canyon Ss.
6,300.00	14.11	6.69	6,210.32	758.20 N	88.99 E	571,124.10	671,055.09	0.00	-88.59	0.00	

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
6,400.00	14.11	6.69	6,307.31	782.41 N	91.83 E	571,148.31	671,057.93	0.00	-91.42	0.00	
6,500.00	14.11	6.69	6,404.29	806.62 N	94.67 E	571,172.52	671,060.77	0.00	-94.25	0.00	
6,600.00	14.11	6.69	6,501.27	830.83 N	97.51 E	571,196.73	671,063.61	0.00	-97.08	0.00	
6,700.00	14.11	6.69	6,598.26	855.03 N	100.36 E	571,220.93	671,066.46	0.00	-99.91	0.00	
6,800.00	14.11	6.69	6,695.24	879.24 N	103.20 E	571,245.14	671,069.30	0.00	-102.74	0.00	
6,900.00	14.11	6.69	6,792.23	903.45 N	106.04 E	571,269.35	671,072.14	0.00	-105.56	0.00	
7,000.00	14.11	6.69	6,889.21	927.65 N	108.88 E	571,293.55	671,074.98	0.00	-108.39	0.00	
7,100.00	14.11	6.69	6,986.20	951.86 N	111.72 E	571,317.76	671,077.82	0.00	-111.22	0.00	
7,200.00	14.11	6.69	7,083.18	976.07 N	114.56 E	571,341.97	671,080.66	0.00	-114.05	0.00	
7,300.00	14.11	6.69	7,180.16	1,000.27 N	117.40 E	571,366.17	671,083.50	0.00	-116.88	0.00	
7,400.00	14.11	6.69	7,277.15	1,024.48 N	120.24 E	571,390.38	671,086.34	0.00	-119.71	0.00	
7,500.00	14.11	6.69	7,374.13	1,048.69 N	123.08 E	571,414.59	671,089.18	0.00	-122.54	0.00	
7,566.88	14.11	6.69	7,439.00	1,064.88 N	124.99 E	571,430.78	671,091.09	0.00	-124.43	0.00	Lower Brushy Canyon Ss.
7,600.00	14.11	6.69	7,471.12	1,072.90 N	125.93 E	571,438.80	671,092.03	0.00	-125.36	0.00	
7,700.00	14.11	6.69	7,568.10	1,097.10 N	128.77 E	571,463.00	671,094.87	0.00	-128.19	0.00	
7,800.00	14.11	6.69	7,665.09	1,121.31 N	131.61 E	571,487.21	671,097.71	0.00	-131.02	0.00	
7,825.69	14.11	6.69	7,690.00	1,127.53 N	132.34 E	571,493.43	671,098.44	0.00	-131.75	0.00	Bone Spring Lm.
7,900.00	14.11	6.69	7,762.07	1,145.52 N	134.45 E	571,511.42	671,100.55	0.00	-133.85	0.00	
7,979.32	14.11	6.69	7,839.00	1,164.72 N	136.70 E	571,530.62	671,102.80	0.00	-136.09	0.00	Avalon Ss.
8,000.00	14.11	6.69	7,859.05	1,169.72 N	137.29 E	571,535.62	671,103.39	0.00	-136.68	0.00	
8,078.31	14.11	6.69	7,935.00	1,188.68 N	139.52 E	571,554.58	671,105.62	0.00	-138.89	0.00	Upper Avalon Sh.
8,100.00	14.11	6.69	7,956.04	1,193.93 N	140.13 E	571,559.83	671,106.23	0.00	-139.51	0.00	
8,200.00	14.11	6.69	8,053.02	1,218.14 N	142.97 E	571,584.04	671,109.07	0.00	-142.34	0.00	
8,300.00	14.11	6.69	8,150.01	1,242.35 N	145.81 E	571,608.25	671,111.91	0.00	-145.16	0.00	
8,320.61	14.11	6.69	8,170.00	1,247.34 N	146.40 E	571,613.24	671,112.50	0.00	-145.75	0.00	Lw. Avalon Carb.
8,400.00	14.11	6.69	8,246.99	1,266.55 N	148.66 E	571,632.45	671,114.76	0.00	-147.99	0.00	
8,487.65	14.11	6.69	8,332.00	1,287.77 N	151.15 E	571,653.67	671,117.25	0.00	-150.47	0.00	Lw. Avalon Sh.
8,500.00	14.11	6.69	8,343.98	1,290.76 N	151.50 E	571,656.66	671,117.60	0.00	-150.82	0.00	
8,600.00	14.11	6.69	8,440.96	1,314.97 N	154.34 E	571,680.87	671,120.44	0.00	-153.65	0.00	
8,699.03	14.11	6.69	8,537.00	1,338.94 N	157.15 E	571,704.84	671,123.25	0.00	-156.45	0.00	Bone Spring Carb.
8,700.00	14.11	6.69	8,537.94	1,339.17 N	157.18 E	571,705.07	671,123.28	0.00	-156.48	0.00	
8,800.00	14.11	6.69	8,634.93	1,363.38 N	160.02 E	571,729.28	671,126.12	0.00	-159.31	0.00	
8,900.00	14.11	6.69	8,731.91	1,387.59 N	162.86 E	571,753.49	671,128.96	0.00	-162.13	0.00	
8,977.42	14.11	6.69	8,807.00	1,406.33 N	165.06 E	571,772.23	671,131.16	0.00	-164.32	0.00	First Bone Spring Ss.
9,000.00	14.11	6.69	8,828.90	1,411.80 N	165.70 E	571,777.70	671,131.80	0.00	-164.96	0.00	
9,100.00	14.11	6.69	8,925.88	1,436.00 N	168.54 E	571,801.90	671,134.64	0.00	-167.79	0.00	
9,194.98	14.11	6.69	9,018.00	1,458.99 N	171.24 E	571,824.89	671,137.34	0.00	-170.48	0.00	Second Bone Spring Carb.

HALLIBURTON

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Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
9,200.00	14.11	6.69	9,022.87	1,460.21 N	171.38 E	571,826.11	671,137.48	0.00	-170.62	0.00	
9,301.97	14.11	6.69	9,121.76	1,484.89 N	174.28 E	571,850.79	671,140.38	0.00	-173.50	0.00	KOP/ Build & Turn 10°/100'
9,350.00	14.38	347.11	9,168.34	1,496.53 N	173.63 E	571,862.43	671,139.73	10.00	-172.85	-96.32	
9,400.00	16.21	329.38	9,216.60	1,508.59 N	168.69 E	571,874.49	671,134.79	10.00	-167.90	-77.33	
9,450.00	19.18	316.06	9,264.24	1,520.52 N	159.43 E	571,886.42	671,125.53	10.00	-158.64	-60.21	
9,500.00	22.84	306.53	9,310.93	1,532.21 N	145.93 E	571,898.11	671,112.03	10.00	-145.13	-47.52	
9,517.53	24.23	303.86	9,327.00	1,536.24 N	140.21 E	571,902.14	671,106.31	10.00	-139.40	-38.61	Second Bone Spring Ss.
9,550.00	26.92	299.63	9,356.29	1,543.59 N	128.28 E	571,909.49	671,094.38	10.00	-127.47	-36.17	
9,600.00	31.25	294.47	9,399.98	1,554.57 N	106.62 E	571,920.47	671,072.72	10.00	-105.81	-32.35	
9,650.00	35.74	290.48	9,441.67	1,565.06 N	81.12 E	571,930.96	671,047.22	10.00	-80.30	-27.84	
9,700.00	40.34	287.28	9,481.04	1,574.98 N	51.97 E	571,940.88	671,018.07	10.00	-51.15	-24.50	
9,750.00	45.00	284.63	9,517.80	1,584.25 N	19.40 E	571,950.15	670,985.50	10.00	-18.57	-21.98	
9,763.16	46.24	284.01	9,527.00	1,586.58 N	10.28 E	571,952.48	670,976.38	10.00	-9.45	-20.03	Second Bone Spring A Ss.
9,800.00	49.72	282.39	9,551.66	1,592.82 N	16.36 W	571,958.72	670,949.74	10.00	17.20	-19.60	
9,850.00	54.48	280.44	9,582.36	1,600.60 N	55.03 W	571,966.50	670,911.07	10.00	55.87	-18.51	
9,900.00	59.27	278.71	9,609.68	1,607.55 N	96.31 W	571,973.45	670,869.79	10.00	97.15	-17.31	
9,937.90	62.91	277.51	9,628.00	1,612.23 N	129.15 W	571,978.13	670,836.95	10.00	129.99	-16.37	
9,950.00	64.08	277.15	9,633.40	1,613.61 N	139.89 W	571,979.51	670,826.21	10.00	140.73	-15.79	Second Bone Spring B Ss.
10,000.00	68.90	275.71	9,653.34	1,618.73 N	185.43 W	571,984.63	670,780.67	10.00	186.28	-15.63	
10,050.00	73.73	274.35	9,669.36	1,622.87 N	232.60 W	571,988.77	670,733.50	10.00	233.45	-15.05	
10,100.00	78.57	273.07	9,681.32	1,626.01 N	281.03 W	571,991.91	670,685.07	10.00	281.88	-14.62	
10,150.00	83.42	271.83	9,689.14	1,628.11 N	330.35 W	571,994.01	670,635.75	10.00	331.21	-14.31	
10,200.00	88.27	270.61	9,692.76	1,629.17 N	380.19 W	571,995.07	670,585.91	10.00	381.05	-14.11	
10,224.01	90.60	270.03	9,693.00	1,629.30 N	404.20 W	571,995.20	670,561.90	10.00	405.05	-14.03	Landing 90.6° - Landing Point
10,300.00	90.60	270.03	9,692.20	1,629.33 N	480.19 W	571,995.23	670,485.91	0.00	481.04	0.00	
10,400.00	90.60	270.03	9,691.16	1,629.38 N	580.18 W	571,995.28	670,385.92	0.00	581.03	0.00	
10,500.00	90.60	270.03	9,690.11	1,629.43 N	680.18 W	571,995.33	670,285.92	0.00	681.03	0.00	
10,600.00	90.60	270.03	9,689.06	1,629.47 N	780.17 W	571,995.37	670,185.93	0.00	781.02	0.00	
10,700.00	90.60	270.03	9,688.02	1,629.52 N	880.16 W	571,995.42	670,085.94	0.00	881.02	0.00	
10,800.00	90.60	270.03	9,686.97	1,629.56 N	980.16 W	571,995.46	669,985.94	0.00	981.01	0.00	
10,900.00	90.60	270.03	9,685.92	1,629.61 N	1,080.15 W	571,995.51	669,885.95	0.00	1,081.01	0.00	
11,000.00	90.60	270.03	9,684.87	1,629.65 N	1,180.15 W	571,995.55	669,785.95	0.00	1,181.00	0.00	
11,100.00	90.60	270.03	9,683.83	1,629.70 N	1,280.14 W	571,995.60	669,685.96	0.00	1,281.00	0.00	
11,200.00	90.60	270.03	9,682.78	1,629.74 N	1,380.14 W	571,995.64	669,585.96	0.00	1,380.99	0.00	
11,300.00	90.60	270.03	9,681.73	1,629.79 N	1,480.13 W	571,995.69	669,485.97	0.00	1,480.98	0.00	
11,400.00	90.60	270.03	9,680.69	1,629.83 N	1,580.13 W	571,995.73	669,385.97	0.00	1,580.98	0.00	

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
11,500.00	90.60	270.03	9,679.64	1,629.88 N	1,680.12 W	571,995.78	669,285.98	0.00	1,680.97	0.00	
11,600.00	90.60	270.03	9,678.59	1,629.92 N	1,780.12 W	571,995.82	669,185.98	0.00	1,780.97	0.00	
11,700.00	90.60	270.03	9,677.54	1,629.97 N	1,880.11 W	571,995.87	669,085.99	0.00	1,880.96	0.00	
11,800.00	90.60	270.03	9,676.50	1,630.02 N	1,980.10 W	571,995.92	668,986.00	0.00	1,980.96	0.00	
11,900.00	90.60	270.03	9,675.45	1,630.06 N	2,080.10 W	571,995.96	668,886.00	0.00	2,080.95	0.00	
12,000.00	90.60	270.03	9,674.40	1,630.11 N	2,180.09 W	571,996.01	668,786.01	0.00	2,180.95	0.00	
12,100.00	90.60	270.03	9,673.36	1,630.15 N	2,280.09 W	571,996.05	668,686.01	0.00	2,280.94	0.00	
12,200.00	90.60	270.03	9,672.31	1,630.20 N	2,380.08 W	571,996.10	668,586.02	0.00	2,380.94	0.00	
12,300.00	90.60	270.03	9,671.26	1,630.24 N	2,480.08 W	571,996.14	668,486.02	0.00	2,480.93	0.00	
12,400.00	90.60	270.03	9,670.21	1,630.29 N	2,580.07 W	571,996.19	668,386.03	0.00	2,580.92	0.00	
12,500.00	90.60	270.03	9,669.17	1,630.33 N	2,680.07 W	571,996.23	668,286.03	0.00	2,680.92	0.00	
12,600.00	90.60	270.03	9,668.12	1,630.38 N	2,780.06 W	571,996.28	668,186.04	0.00	2,780.91	0.00	
12,700.00	90.60	270.03	9,667.07	1,630.42 N	2,880.05 W	571,996.32	668,086.05	0.00	2,880.91	0.00	
12,800.00	90.60	270.03	9,666.02	1,630.47 N	2,980.05 W	571,996.37	667,986.05	0.00	2,980.90	0.00	
12,900.00	90.60	270.03	9,664.98	1,630.51 N	3,080.04 W	571,996.41	667,886.06	0.00	3,080.90	0.00	
13,000.00	90.60	270.03	9,663.93	1,630.56 N	3,180.04 W	571,996.46	667,786.06	0.00	3,180.89	0.00	
13,100.00	90.60	270.03	9,662.88	1,630.61 N	3,280.03 W	571,996.51	667,686.07	0.00	3,280.89	0.00	
13,200.00	90.60	270.03	9,661.84	1,630.65 N	3,380.03 W	571,996.55	667,586.07	0.00	3,380.88	0.00	
13,300.00	90.60	270.03	9,660.79	1,630.70 N	3,480.02 W	571,996.60	667,486.08	0.00	3,480.88	0.00	
13,400.00	90.60	270.03	9,659.74	1,630.74 N	3,580.02 W	571,996.64	667,386.08	0.00	3,580.87	0.00	
13,500.00	90.60	270.03	9,658.69	1,630.79 N	3,680.01 W	571,996.69	667,286.09	0.00	3,680.86	0.00	
13,600.00	90.60	270.03	9,657.65	1,630.83 N	3,780.01 W	571,996.73	667,186.09	0.00	3,780.86	0.00	
13,700.00	90.60	270.03	9,656.60	1,630.88 N	3,880.00 W	571,996.78	667,086.10	0.00	3,880.85	0.00	
13,800.00	90.60	270.03	9,655.55	1,630.92 N	3,979.99 W	571,996.82	666,986.11	0.00	3,980.85	0.00	
13,900.00	90.60	270.03	9,654.51	1,630.97 N	4,079.99 W	571,996.87	666,886.11	0.00	4,080.84	0.00	
14,000.00	90.60	270.03	9,653.46	1,631.01 N	4,179.98 W	571,996.91	666,786.12	0.00	4,180.84	0.00	
14,100.00	90.60	270.03	9,652.41	1,631.06 N	4,279.98 W	571,996.96	666,686.12	0.00	4,280.83	0.00	
14,200.00	90.60	270.03	9,651.36	1,631.10 N	4,379.97 W	571,997.00	666,586.13	0.00	4,380.83	0.00	
14,300.00	90.60	270.03	9,650.32	1,631.15 N	4,479.97 W	571,997.05	666,486.13	0.00	4,480.82	0.00	
14,400.00	90.60	270.03	9,649.27	1,631.19 N	4,579.96 W	571,997.09	666,386.14	0.00	4,580.81	0.00	
14,500.00	90.60	270.03	9,648.22	1,631.24 N	4,679.96 W	571,997.14	666,286.14	0.00	4,680.81	0.00	
14,600.00	90.60	270.03	9,647.18	1,631.29 N	4,779.95 W	571,997.19	666,186.15	0.00	4,780.80	0.00	
14,700.00	90.60	270.03	9,646.13	1,631.33 N	4,879.95 W	571,997.23	666,086.15	0.00	4,880.80	0.00	
14,800.00	90.60	270.03	9,645.08	1,631.38 N	4,979.94 W	571,997.28	665,986.16	0.00	4,980.79	0.00	
14,900.00	90.60	270.03	9,644.03	1,631.42 N	5,079.93 W	571,997.32	665,886.17	0.00	5,080.79	0.00	
15,000.00	90.60	270.03	9,642.99	1,631.47 N	5,179.93 W	571,997.37	665,786.17	0.00	5,180.78	0.00	
15,100.00	90.60	270.03	9,641.94	1,631.51 N	5,279.92 W	571,997.41	665,686.18	0.00	5,280.78	0.00	

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
15,200.00	90.60	270.03	9,640.89	1,631.56 N	5,379.92 W	571,997.46	665,586.18	0.00	5,380.77	0.00	
15,300.00	90.60	270.03	9,639.85	1,631.60 N	5,479.91 W	571,997.50	665,486.19	0.00	5,480.77	0.00	
15,400.00	90.60	270.03	9,638.80	1,631.65 N	5,579.91 W	571,997.55	665,386.19	0.00	5,580.76	0.00	
15,500.00	90.60	270.03	9,637.75	1,631.69 N	5,679.90 W	571,997.59	665,286.20	0.00	5,680.75	0.00	
15,600.00	90.60	270.03	9,636.70	1,631.74 N	5,779.90 W	571,997.64	665,186.20	0.00	5,780.75	0.00	
15,700.00	90.60	270.03	9,635.66	1,631.78 N	5,879.89 W	571,997.68	665,086.21	0.00	5,880.74	0.00	
15,800.00	90.60	270.03	9,634.61	1,631.83 N	5,979.88 W	571,997.73	664,986.22	0.00	5,980.74	0.00	
15,900.00	90.60	270.03	9,633.56	1,631.88 N	6,079.88 W	571,997.78	664,886.22	0.00	6,080.73	0.00	
16,000.00	90.60	270.03	9,632.52	1,631.92 N	6,179.87 W	571,997.82	664,786.23	0.00	6,180.73	0.00	
16,100.00	90.60	270.03	9,631.47	1,631.97 N	6,279.87 W	571,997.87	664,686.23	0.00	6,280.72	0.00	
16,200.00	90.60	270.03	9,630.42	1,632.01 N	6,379.86 W	571,997.91	664,586.24	0.00	6,380.72	0.00	
16,300.00	90.60	270.03	9,629.37	1,632.06 N	6,479.86 W	571,997.96	664,486.24	0.00	6,480.71	0.00	
16,400.00	90.60	270.03	9,628.33	1,632.10 N	6,579.85 W	571,998.00	664,386.25	0.00	6,580.71	0.00	
16,500.00	90.60	270.03	9,627.28	1,632.15 N	6,679.85 W	571,998.05	664,286.25	0.00	6,680.70	0.00	
16,600.00	90.60	270.03	9,626.23	1,632.19 N	6,779.84 W	571,998.09	664,186.26	0.00	6,780.69	0.00	
16,700.00	90.60	270.03	9,625.18	1,632.24 N	6,879.84 W	571,998.14	664,086.26	0.00	6,880.69	0.00	
16,800.00	90.60	270.03	9,624.14	1,632.28 N	6,979.83 W	571,998.18	663,986.27	0.00	6,980.68	0.00	
16,900.00	90.60	270.03	9,623.09	1,632.33 N	7,079.82 W	571,998.23	663,886.28	0.00	7,080.68	0.00	
17,000.00	90.60	270.03	9,622.04	1,632.37 N	7,179.82 W	571,998.27	663,786.28	0.00	7,180.67	0.00	
17,100.00	90.60	270.03	9,621.00	1,632.42 N	7,279.81 W	571,998.32	663,686.29	0.00	7,280.67	0.00	
17,200.00	90.60	270.03	9,619.95	1,632.47 N	7,379.81 W	571,998.37	663,586.29	0.00	7,380.66	0.00	
17,300.00	90.60	270.03	9,618.90	1,632.51 N	7,479.80 W	571,998.41	663,486.30	0.00	7,480.66	0.00	
17,400.00	90.60	270.03	9,617.85	1,632.56 N	7,579.80 W	571,998.46	663,386.30	0.00	7,580.65	0.00	
17,500.00	90.60	270.03	9,616.81	1,632.60 N	7,679.79 W	571,998.50	663,286.31	0.00	7,680.64	0.00	
17,600.00	90.60	270.03	9,615.76	1,632.65 N	7,779.79 W	571,998.55	663,186.31	0.00	7,780.64	0.00	
17,700.00	90.60	270.03	9,614.71	1,632.69 N	7,879.78 W	571,998.59	663,086.32	0.00	7,880.63	0.00	
17,800.00	90.60	270.03	9,613.67	1,632.74 N	7,979.77 W	571,998.64	662,986.33	0.00	7,980.63	0.00	
17,900.00	90.60	270.03	9,612.62	1,632.78 N	8,079.77 W	571,998.68	662,886.33	0.00	8,080.62	0.00	
18,000.00	90.60	270.03	9,611.57	1,632.83 N	8,179.76 W	571,998.73	662,786.34	0.00	8,180.62	0.00	
18,100.00	90.60	270.03	9,610.52	1,632.87 N	8,279.76 W	571,998.77	662,686.34	0.00	8,280.61	0.00	
18,200.00	90.60	270.03	9,609.48	1,632.92 N	8,379.75 W	571,998.82	662,586.35	0.00	8,380.61	0.00	
18,300.00	90.60	270.03	9,608.43	1,632.96 N	8,479.75 W	571,998.86	662,486.35	0.00	8,480.60	0.00	
18,400.00	90.60	270.03	9,607.38	1,633.01 N	8,579.74 W	571,998.91	662,386.36	0.00	8,580.60	0.00	
18,500.00	90.60	270.03	9,606.34	1,633.06 N	8,679.74 W	571,998.96	662,286.36	0.00	8,680.59	0.00	
18,600.00	90.60	270.03	9,605.29	1,633.10 N	8,779.73 W	571,999.00	662,186.37	0.00	8,780.58	0.00	
18,700.00	90.60	270.03	9,604.24	1,633.15 N	8,879.73 W	571,999.05	662,086.37	0.00	8,880.58	0.00	
18,800.00	90.60	270.03	9,603.19	1,633.19 N	8,979.72 W	571,999.09	661,986.38	0.00	8,980.57	0.00	

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1

Measured Depth (usft)	Inclination (°)	Grid Azimuth (°)	Vertical Depth (usft)	Local Coordinates		Map Coordinates		Dogleg Rate (°/100usft)	Vertical Section (usft)	Toolface Angle (°)	Comments
				Northing (usft)	Easting (usft)	Northing (usft)	Easting (usft)				
18,900.00	90.60	270.03	9,602.15	1,633.24 N	9,079.71 W	571,999.14	661,886.39	0.00	9,080.57	0.00	
19,000.00	90.60	270.03	9,601.10	1,633.28 N	9,179.71 W	571,999.18	661,786.39	0.00	9,180.56	0.00	
19,100.00	90.60	270.03	9,600.05	1,633.33 N	9,279.70 W	571,999.23	661,686.40	0.00	9,280.56	0.00	
19,200.00	90.60	270.03	9,599.01	1,633.37 N	9,379.70 W	571,999.27	661,586.40	0.00	9,380.55	0.00	
19,300.00	90.60	270.03	9,597.96	1,633.42 N	9,479.69 W	571,999.32	661,486.41	0.00	9,480.55	0.00	
19,400.00	90.60	270.03	9,596.91	1,633.46 N	9,579.69 W	571,999.36	661,386.41	0.00	9,580.54	0.00	
19,500.00	90.60	270.03	9,595.86	1,633.51 N	9,679.68 W	571,999.41	661,286.42	0.00	9,680.54	0.00	
19,600.00	90.60	270.03	9,594.82	1,633.55 N	9,779.68 W	571,999.45	661,186.42	0.00	9,780.53	0.00	
19,700.00	90.60	270.03	9,593.77	1,633.60 N	9,879.67 W	571,999.50	661,086.43	0.00	9,880.52	0.00	
19,800.00	90.60	270.03	9,592.72	1,633.65 N	9,979.66 W	571,999.55	660,986.44	0.00	9,980.52	0.00	
19,900.00	90.60	270.03	9,591.68	1,633.69 N	10,079.66 W	571,999.59	660,886.44	0.00	10,080.51	0.00	
20,000.00	90.60	270.03	9,590.63	1,633.74 N	10,179.65 W	571,999.64	660,786.45	0.00	10,180.51	0.00	
20,100.00	90.60	270.03	9,589.58	1,633.78 N	10,279.65 W	571,999.68	660,686.45	0.00	10,280.50	0.00	
20,200.00	90.60	270.03	9,588.53	1,633.83 N	10,379.64 W	571,999.73	660,586.46	0.00	10,380.50	0.00	
20,300.00	90.60	270.03	9,587.49	1,633.87 N	10,479.64 W	571,999.77	660,486.46	0.00	10,480.49	0.00	
20,400.00	90.60	270.03	9,586.44	1,633.92 N	10,579.63 W	571,999.82	660,386.47	0.00	10,580.49	0.00	
20,500.00	90.60	270.03	9,585.39	1,633.96 N	10,679.63 W	571,999.86	660,286.47	0.00	10,680.48	0.00	
20,600.00	90.60	270.03	9,584.34	1,634.01 N	10,779.62 W	571,999.91	660,186.48	0.00	10,780.47	0.00	
20,644.88	90.60	270.03	9,583.87	1,634.03 N	10,824.50 W	571,999.93	660,141.60	0.00	10,825.35	0.00	TD at 20644.88 - 5 1/2"

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,700.00	2,700.00	0.00	0.00	Build 1.5°/100'
3,640.46	3,630.99	114.41	13.43	Hold 14.11°
9,301.97	9,121.76	1,484.89	174.28	KOP/ Build & Turn 10°/100'
10,224.01	9,693.00	1,629.30	-404.20	Landing 90.6°
20,644.88	9,584.00	1,633.90	-10,824.50	TD at 20644.88

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (usft)
				+N/_S (usft)	+E/-W (usft)	
User	No Target (Freehand)	270.03	Slot	0.00	0.00	0.00

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1**Survey tool program**

From (usft)	To (usft)	Survey/Plan	Survey Tool
0.00	20,644.88	Plan 1	3_MWD+IFR1+MS

Casing Details

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,100.00	1,100.00	18 3/4"	18-3/4	24
2,500.00	2,500.00	13 3/8"	13-3/8	17-1/2
5,052.04	5,000.00	9 5/8"	9-5/8	12-1/4
20,644.88	9,583.87	5 1/2"	5-1/2	8-1/2

Formation Details

Measured Depth (usft)	Vertical Depth (usft)	TVDSS (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
915.00	915.00	-2,628.00	Rustler			
1,270.00	1,270.00	-2,273.00	Salado/Top of Salt			
2,430.00	2,430.00	-1,113.00	Base of Salt			
2,862.05	2,862.00	-681.00	Capitan Reef			
4,936.56	4,888.00	1,345.00	Delaware Sand			
5,123.19	5,069.00	1,526.00	Manzanita Marker			
6,207.90	6,121.00	2,578.00	Brushy Canyon Ss.			
7,566.88	7,439.00	3,896.00	Lower Brushy Canyon Ss.			
7,825.69	7,690.00	4,147.00	Bone Spring Lm.			
7,979.32	7,839.00	4,296.00	Avalon Ss.			
8,078.31	7,935.00	4,392.00	Upper Avalon Sh.			
8,320.61	8,170.00	4,627.00	Lw. Avalon Carb.			
8,487.65	8,332.00	4,789.00	Lw. Avalon Sh.			
8,699.03	8,537.00	4,994.00	Bone Spring Carb.			
8,977.42	8,807.00	5,264.00	First Bone Spring Ss.			
9,194.98	9,018.00	5,475.00	Second Bone Spring Carb.			
9,517.53	9,327.00	5,784.00	Second Bone Spring Ss.			
9,763.16	9,527.00	5,984.00	Second Bone Spring A Ss.			
9,937.90	9,628.00	6,085.00	Second Bone Spring B Ss.			
10,224.01	9,693.00	6,150.00	Landing Point			

HALLIBURTON

Lea County, NM (NAD27)

Plan Report for Big Eddy Unit 29W Vader 102H - Plan 1**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
Vader 102H LTP (1980' FSL - 100' FWL) ()	0.00	0.00	0.00	1,633.90	-10,774.50	571,999.80	660,191.60	32.57145844	-103.81332950
- plan misses target center by 9584.01usft at 20644.88usft MD (9583.87 TVD, 1634.03 N, -10824.50 E)									
- Point									
Vader 102H BHL (1980' FSL - 50' FWL) ()	0.00	0.00	0.00	1,633.90	-10,824.50	571,999.80	660,141.60	32.57145912	-103.81349180
- plan misses target center by 9583.87usft at 20644.88usft MD (9583.87 TVD, 1634.03 N, -10824.50 E)									
- Point									
Vader 102H FTP (1980' FSL - 100' FEL) ()	0.00	0.00	0.00	1,629.30	-404.20	571,995.20	670,561.90	32.57130201	-103.77966748
- plan misses target center by 1678.69usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E)									
- Point									

Directional Difficulty Index

Average Dogleg over Survey:	0.51 °/100usft	Maximum Dogleg over Survey:	10.00 °/100usft at 10,224.01 usft
Net Tortosity applicable to Plans:	0.51 °/100usft	Directional Difficulty Index:	6.728

Audit Info

HALLIBURTON**North Reference Sheet for Big Eddy Unit 29 Pad (Grid) - Big Eddy Unit 29W Vader 102H - Wellbore #1**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to Grid North Reference.

Vertical Depths are relative to RKB (Akita 90) 30' + GL(3513') @ 3543.00usft. Northing and Easting are relative to Big Eddy Unit 29 W Vader 102H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 3001 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Transverse Mercator (Gauss-Kruger)

Central Meridian is -104.33333333°, Longitude Origin:0.00000000°, Latitude Origin:0.00000000°

False Easting: 500,000.00usft, False Northing: 0.00usft, Scale Reduction: 0.99994257

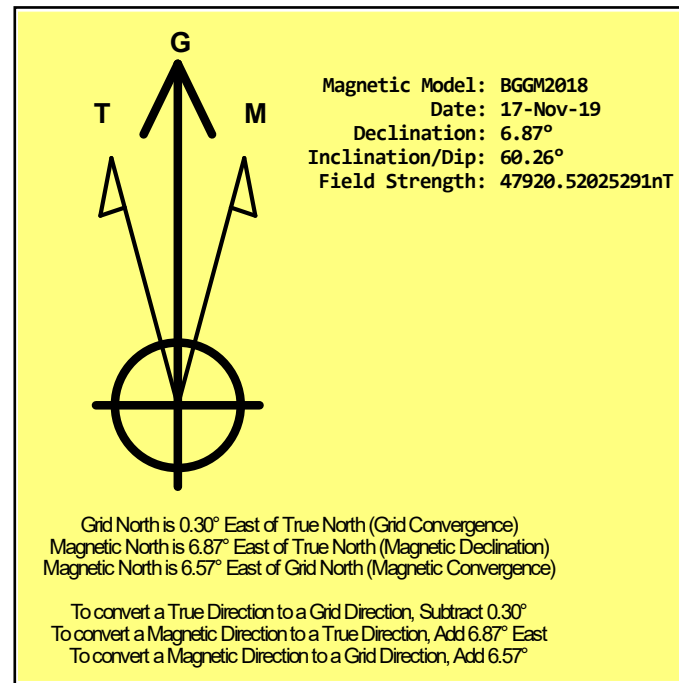
Grid Coordinates of Well: 570,365.90 usft N, 670,966.10 usft E

Geographical Coordinates of Well: 32.56681775, -103.77838303

Grid Convergence at Surface is: 0.30°

Based upon Minimum Curvature type calculations, at a Measured Depth of 20,644.88usft
the Bottom Hole Displacement is 10,947.14usft in the Direction of 278.58° (Grid).

Magnetic Convergence at surface is: -6.57° (17 November 2019, , BGGM2018)



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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 20463

CONDITIONS OF APPROVAL

Operator:	OGRID:	Action Number:	Action Type:
XTO PERMIAN OPERATING LLC. BUILDING 5 MIDLAND, TX79707	373075	20463	C-103A
6401 HOLIDAY HILL ROAD			
OCD Reviewer	Condition		
pkautz	None		