

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER 1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		5. Lease Serial No. 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No.
2. Name of Operator		9. API Well No. 30 015 48275
3a. Address	3b. Phone No. (include area code)	10. Field and Pool, or Exploratory
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		11. Sec., T. R. M. or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post office*		12. County or Parish
13. State		
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- | | |
|---|---|
| 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 requested by the BLM. |
|---|---|

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 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)



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 30 015 48275		² Pool Code 98232		³ Pool Name WC-015 G-06 S2031276; Bone Spring	
⁴ Property Code XXXXXX 330785		⁵ Property Name BIG EDDY UNIT DI5 BS2-5W			⁶ Well Number 347H
⁷ OGRID No. XXXXXX 373075		⁸ Operator Name XTO PERMIAN OPERATING, LLC.			⁹ Elevation 3529'

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
G	27	20 S	31 E		2,050	NORTH	2,087	EAST	EDDY

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
L	28	20 S	31 E		1,980	SOUTH	200	WEST	EDDY

¹² Dedicated Acres 200	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				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. <i>Stephanie Rabadue</i> 10-24-17 Signature Date <i>Stephanie Rabadue</i> Printed Name <i>stephanie-rabadue@xtocenergy.com</i> E-mail Address																			
GEODETC COORDINATES SURFACE LOCATION NAD 27 NME Y= 562,598.1 X= 647,484.3 LAT.= 32.545780°N LONG.= 103.854715°W		LAST TAKE POINT NAD 27 NME Y= 561,313.3 X= 639,337.3 LAT.= 32.542346°N LONG.= 103.881171°W		GEODETC COORDINATES SURFACE LOCATION NAD 83 NME Y= 562,659.7 X= 688,664.2 LAT.= 32.545900°N LONG.= 103.855215°W		LAST TAKE POINT NAD 83 NME Y= 561,374.8 X= 680,517.2 LAT.= 32.542466°N LONG.= 103.881672°W																	
FIRST TAKE POINT NAD 27 NME Y= 561,340.5 X= 646,614.2 LAT.= 32.542333°N LONG.= 103.857557°W		BOTTOM HOLE LOCATION NAD 27 NME Y= 561,312.7 X= 639,207.3 LAT.= 32.542345°N LONG.= 103.881593°W		FIRST TAKE POINT NAD 83 NME Y= 561,402.0 X= 687,794.1 LAT.= 32.542453°N LONG.= 103.858057°W		BOTTOM HOLE LOCATION NAD 83 NME Y= 561,374.2 X= 680,387.2 LAT.= 32.542466°N LONG.= 103.882094°W																	
CORNER COORDINATES TABLE NAD 27 NME <table border="1"> <tr><td>A - Y= 560,654.4 N, X= 639,008.8 E</td></tr> <tr><td>B - Y= 561,977.1 N, X= 639,005.8 E</td></tr> <tr><td>C - Y= 560,667.5 N, X= 641,656.7 E</td></tr> <tr><td>D - Y= 561,990.7 N, X= 641,652.9 E</td></tr> <tr><td>E - Y= 560,682.3 N, X= 644,304.7 E</td></tr> <tr><td>F - Y= 562,004.3 N, X= 644,303.7 E</td></tr> <tr><td>G - Y= 560,682.4 N, X= 646,941.0 E</td></tr> <tr><td>H - Y= 562,004.2 N, X= 646,937.6 E</td></tr> </table>				A - Y= 560,654.4 N, X= 639,008.8 E	B - Y= 561,977.1 N, X= 639,005.8 E	C - Y= 560,667.5 N, X= 641,656.7 E	D - Y= 561,990.7 N, X= 641,652.9 E	E - Y= 560,682.3 N, X= 644,304.7 E	F - Y= 562,004.3 N, X= 644,303.7 E	G - Y= 560,682.4 N, X= 646,941.0 E	H - Y= 562,004.2 N, X= 646,937.6 E	CORNER COORDINATES TABLE NAD 83 NME <table border="1"> <tr><td>A - Y= 560,715.9 N, X= 680,188.7 E</td></tr> <tr><td>B - Y= 562,038.6 N, X= 680,185.7 E</td></tr> <tr><td>C - Y= 560,729.0 N, X= 682,836.6 E</td></tr> <tr><td>D - Y= 562,052.2 N, X= 682,832.8 E</td></tr> <tr><td>E - Y= 560,743.8 N, X= 685,484.6 E</td></tr> <tr><td>F - Y= 562,065.8 N, X= 685,483.6 E</td></tr> <tr><td>G - Y= 560,743.9 N, X= 688,120.9 E</td></tr> <tr><td>H - Y= 562,065.7 N, X= 688,117.5 E</td></tr> </table>				A - Y= 560,715.9 N, X= 680,188.7 E	B - Y= 562,038.6 N, X= 680,185.7 E	C - Y= 560,729.0 N, X= 682,836.6 E	D - Y= 562,052.2 N, X= 682,832.8 E	E - Y= 560,743.8 N, X= 685,484.6 E	F - Y= 562,065.8 N, X= 685,483.6 E	G - Y= 560,743.9 N, X= 688,120.9 E	H - Y= 562,065.7 N, X= 688,117.5 E
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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.

08-25-2017

Date of Survey

Signature and Seal of
Professional Surveyor:



MARK DILLON HARP 23786
Certificate Number

RR

2017050758

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

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	XTO Permian Operating, LLC
LEASE NO.:	NMLC-0065431
WELL NAME & NO.:	Big Eddy Unit DI5 BS2-5W 347H
SURFACE HOLE FOOTAGE:	2050' FNL & 2087' FEL
BOTTOM HOLE FOOTAGE	1980' FSL & 0200' FWL Sec. 28, T. 20 S., R 31 E.
LOCATION:	Section 27, T. 20 S., R 31 E., NMPM
COUNTY:	County, New Mexico

Commercial Well Determination

A commercial well determination shall be submitted after production has been established for at least six months.

Unit Wells

The well sign for a unit well shall include the unit number in addition to the surface and bottom hole lease numbers. This also applies to participating area numbers. If a participating area has not been established, the operator can use the general unit designation, but will replace the unit number with the participating area number when the sign is replaced.

A. **DRILLING OPERATIONS REQUIREMENTS**

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

☐ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

1. **Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.**

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval. **If the drilling rig is removed without approval – an Incident of Non-Compliance will be written and will be a “Major” violation.**
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
4. **The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.**

B. CASING

Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) for Potash Areas:

After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log.

Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

R-111-P Potash

Capitan Reef

Possibility of water flows in the Castile, Yates, and Salado.

Possibility of lost circulation in the Red Beds, Rustler, Yates, Capitan Reef, and Delaware.

1. The **16** inch surface casing shall be set at approximately **849** feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. **If salt is encountered, set casing at least 25 feet above the salt.**
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.**
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **13-3/8** inch 1st intermediate casing, which shall be set at approximately **2700** feet, is:

☐ Cement to surface. If cement does not circulate see B.1.a, c-d above. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash.**
3. The minimum required fill of cement behind the **9-5/8** inch 2nd intermediate casing is:

Operator has proposed DV tool at depth of 2915', but will adjust cement proportionately if moved. DV tool shall be set a minimum of 50' below previous shoe and a minimum of 200' above current shoe. Operator shall submit sundry if DV tool depth cannot be set in this range. If an ECP is used, it is to be set a minimum of 50' below the shoe to provide cement across the shoe. If it cannot be set below the shoe, a CBL shall be run to verify cement coverage.

a. First stage to DV tool:____

- ☐ Cement to circulate. If cement does not circulate, contact the appropriate BLM office before proceeding with second stage cement job. Operator should have plans as to how they will achieve circulation on the next stage.

b. Second stage above DV tool:

- ☐ Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to potash and Capitan Reef.**

Centralizers required through the curve and a minimum of one every other joint.

4. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- ☐ Cement should tie-back at least **50 feet above the Capitan Reef** (Top of Capitan Reef estimated at 2850'). Operator shall provide method of verification.

5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

6. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API 53.
2. Variance approved to use flex line from BOP to choke manifold. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. **Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.** If the BLM inspector questions the straightness of the hose, a BLM engineer will be contacted and will review in the field or via picture supplied by inspector to determine if changes are required (operator shall expect delays if this occurs).
3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be psi.
4. **Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the 13-3/8 1st intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 1st intermediate casing shoe shall be psi.**
 - a. **Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.**
 - b. **If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.**
 - c. **Manufacturer representative shall install the test plug for the initial BOP test.**
 - d. **Operator shall perform the 9-5/8" casing integrity tests to 70% of the casing burst. This will test the multi-bowl seals.**
 - e. **If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.**
5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.

- a. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time.
- b. The tests shall be done by an independent service company utilizing a test plug **not a cup or J-packer**.
- c. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- d. The results of the test shall be reported to the appropriate BLM office.
- e. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

E. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

08/30/2019

APD ID: 10400036582

Submission Date: 11/26/2018

Highlighted data
reflects the most
recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: BIG EDDY UNIT DI5 BS2-5W

Well Number: 347H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	PERMIAN	3529	0	0	OTHER : Alluvium	NONE	N
2	RUSTLER	2869	660	660	SILTSTONE	USEABLE WATER	N
3	TOP SALT	2600	929	929	SALT	OTHER,POTASH : Produced Water	N
4	BASE OF SALT	1084	2445	2445	SALT	OTHER : Produced Water	N
5	CAPITAN REEF	685	2844	2844	LIMESTONE	USEABLE WATER	N
6	DELAWARE	-395	3924	3924	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
7	BRUSHY CANYON	-2340	5869	5869	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
8	BONE SPRING	-3956	7485	7485	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
9	BONE SPRING 1ST	-5180	8709	8709	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	N
10	BONE SPRING 2ND	-5708	9237	9237	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced Water	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 2M

Rating Depth: 849

Equipment: The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 2M Hydril and a 13-5/8" minimum 2M Double Ram BOP.

Requesting Variance? YES

Variance request: 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. Permanent Wellhead – GE RSH Multibowl System A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom 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 BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation

Testing Procedure: 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, the BOP test will be limited to 2,000 psi. All BOP tests will include a low

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H

pressure test as per BLM regulations. The 2M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

BEU_DI5_2MCM_20190815075844.pdf

BOP Diagram Attachment:

BEU_DI5_2MBOP_20190815075857.pdf

Pressure Rating (PSI): 3M**Rating Depth:** 9489

Equipment: 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.

Requesting Variance? YES

Variance request: 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. XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. Permanent Wellhead – GE RSH Multibowl System A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom 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 BLM Onshore Order 2 Wellhead Manufacturer representative will not be present for BOP test plug installation

Testing Procedure: 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, the BOP test will be limited to 3,000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M BOP diagram is attached. Blind rams will be function tested each trip, pipe rams will be function tested each day.

Choke Diagram Attachment:

BEU_DI5_3MCM_20181112130137.pdf

BOP Diagram Attachment:

BEU_DI5_3MBOP_20181112130147.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	18.1 25	16.0	NEW	API	N	0	849	0	849			849	J-55	84	BUTT	3.63	7.67	DRY	18.5 9	DRY	18.5 9
2	INTERMEDIATE	14.7 5	13.375	NEW	API	N	0	2854	0	2854			2854	HCL-80	68	ST&C	2.17	2.28	DRY	3.48	DRY	3.48
3	INTERMEDIATE	12.2 5	9.625	NEW	API	N	0	3500	0	3500			3500	J-55	40	LT&C	2.74	4.21	DRY	3.71	DRY	3.71

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
4	PRODUCTI ON	8.75	5.5	NEW	API	N	0	17336	0	9489			17336	P- 110	17	BUTT	1.65	1.12	DRY	2.31	DRY	2.31

Casing Attachments**Casing ID:** 1 **String Type:** SURFACE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BEU_DI5_347H_Csg_20181120122112.pdf

Casing ID: 2 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BEU_DI5_347H_Csg_20181120122123.pdf

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H**Casing Attachments****Casing ID:** 3 **String Type:** INTERMEDIATE**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BEU_DI5_347H_Csg_20181120122132.pdf

Casing ID: 4 **String Type:** PRODUCTION**Inspection Document:****Spec Document:****Tapered String Spec:****Casing Design Assumptions and Worksheet(s):**

BEU_DI5_347H_Csg_20181120122140.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	849	164	1.68	12.8	275.5 2	100	ExtendaCem-CZ	None
SURFACE	Tail				293	1.35	14.8	395.5 5	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	2854	528	1.88	12.9	992.6 4	100	EconoCem-HCL	+ 5% salt + 5% Kol-Seal
INTERMEDIATE	Tail				158	1.33	14.8	210.1 4	100	HalCem-C	none
INTERMEDIATE	Lead	2915	0	3500	834	1.88	12.9	1567. 92	100	EconoCem-HCL	+ 5% salt + 5% Kol-Seal

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
INTERMEDIATE	Tail				470	1.33	14.8	625.1	100	HalCem-C	none
PRODUCTION	Lead		0	1733 6	1025	2.69	10.5	2757. 25	30	Tuned Light	0.5lbm/sk CFR-3 + 1.5lbm/sk Salt + 0.1% HR601
PRODUCTION	Tail				2301	1.61	13.2	3704. 61	30	VersaCem PBHS2	+ 0.5% LAP-1 + 0.25lbm/sk D-air 5000 + 0.2% HR601 + 0.4% CFR-3 + 1pps Salt

Section 5 - Circulating Medium

Mud System Type: Closed**Will an air or gas system be Used?** NO**Description of the equipment for the circulating system in accordance with Onshore Order #2:****Diagram of the equipment for the circulating system in accordance with Onshore Order #2:**

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: A Pason or Totco will be used to detect changes in loss or gain of mud volume.

Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
2854	3500	OTHER : FW/Cut Brine / Poly-Sweeps	8.6	9.3							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
0	849	OTHER : FW/Native	8.4	8.8							A mud test will be performed every 24 hours to determine:

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
											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
3500	9489	OIL-BASED MUD	8.8	9.5							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
849	2854	OTHER : Brine/Gel Sweeps	9.8	10.2							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

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

List of open and cased hole logs run in the well:

CBL,CNL,DS,GR

Coring operation description for the well:

No coring will take place on this well.

Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 4687**Anticipated Surface Pressure:** 2599.42**Anticipated Bottom Hole Temperature(F):** 160**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** YES**Describe:**

Potential loss of circulation through the Capitan Reef.

Contingency Plans geohazards description:

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

Contingency Plans geohazards attachment:**Hydrogen Sulfide drilling operations plan required?** YES**Hydrogen sulfide drilling operations plan:**

BEU_DI5_H2S_Dia_20181112130503.pdf

BEU_DI5_H2S_Plan_20181112130439.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

BEU_DI5_347H_DD_20181120122242.pdf

Other proposed operations facets description:

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.

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

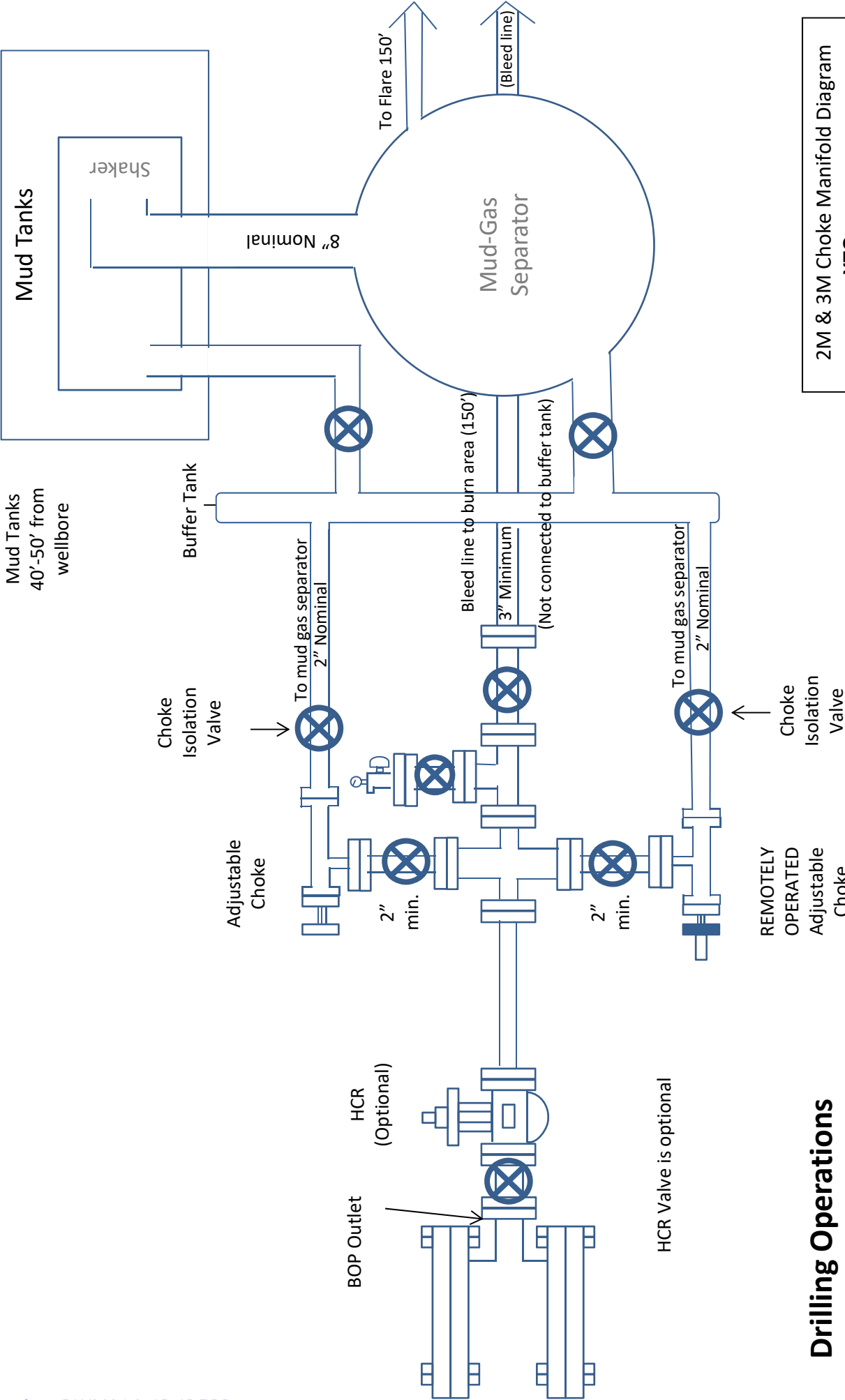
Other proposed operations facets attachment:

BEU_DI5_347H_GCP_20181120122253.pdf

BEU_DI5_MBS_20190709061037.pdf

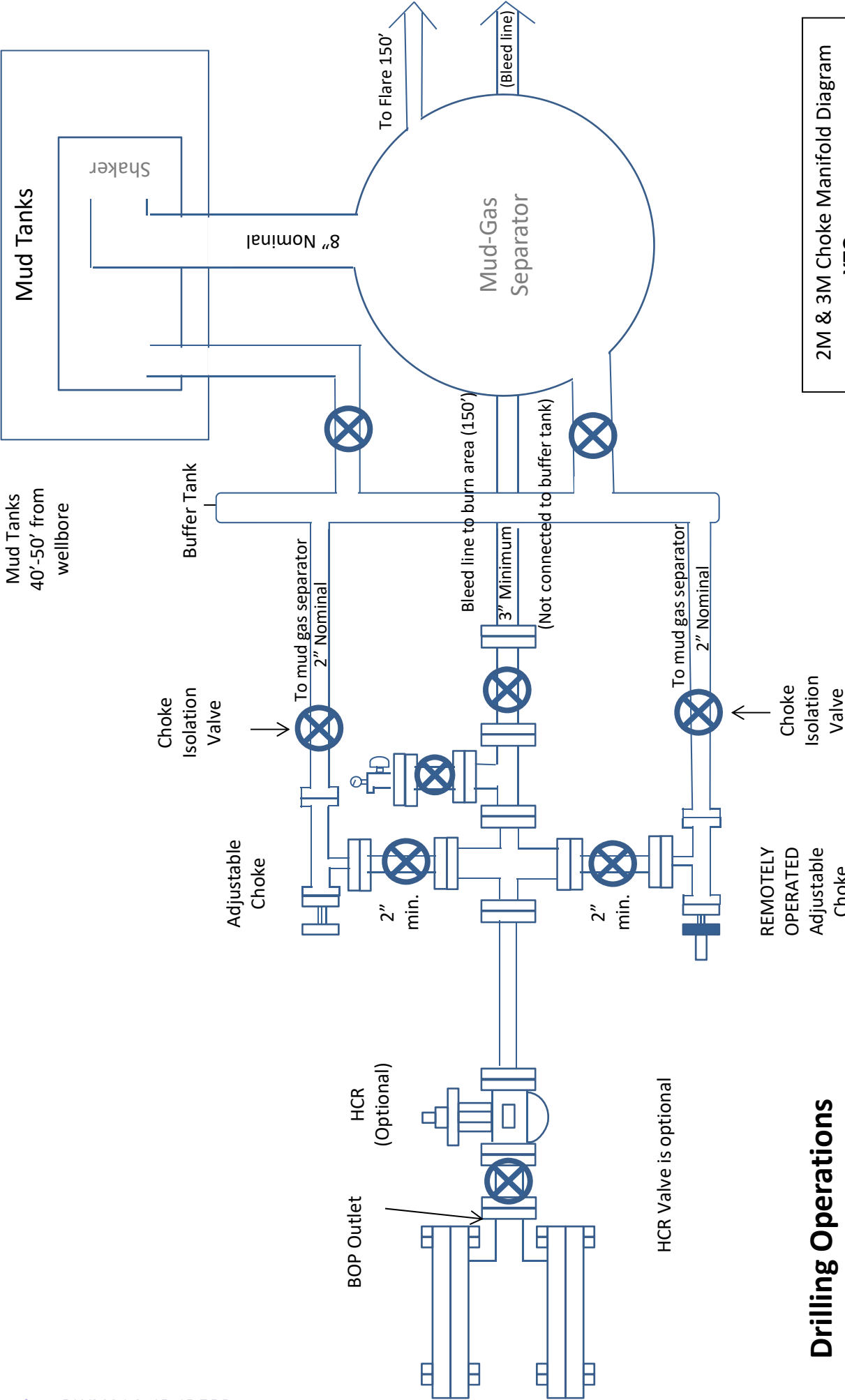
Other Variance attachment:

BEU_DI5_FH_20181120052947.pdf



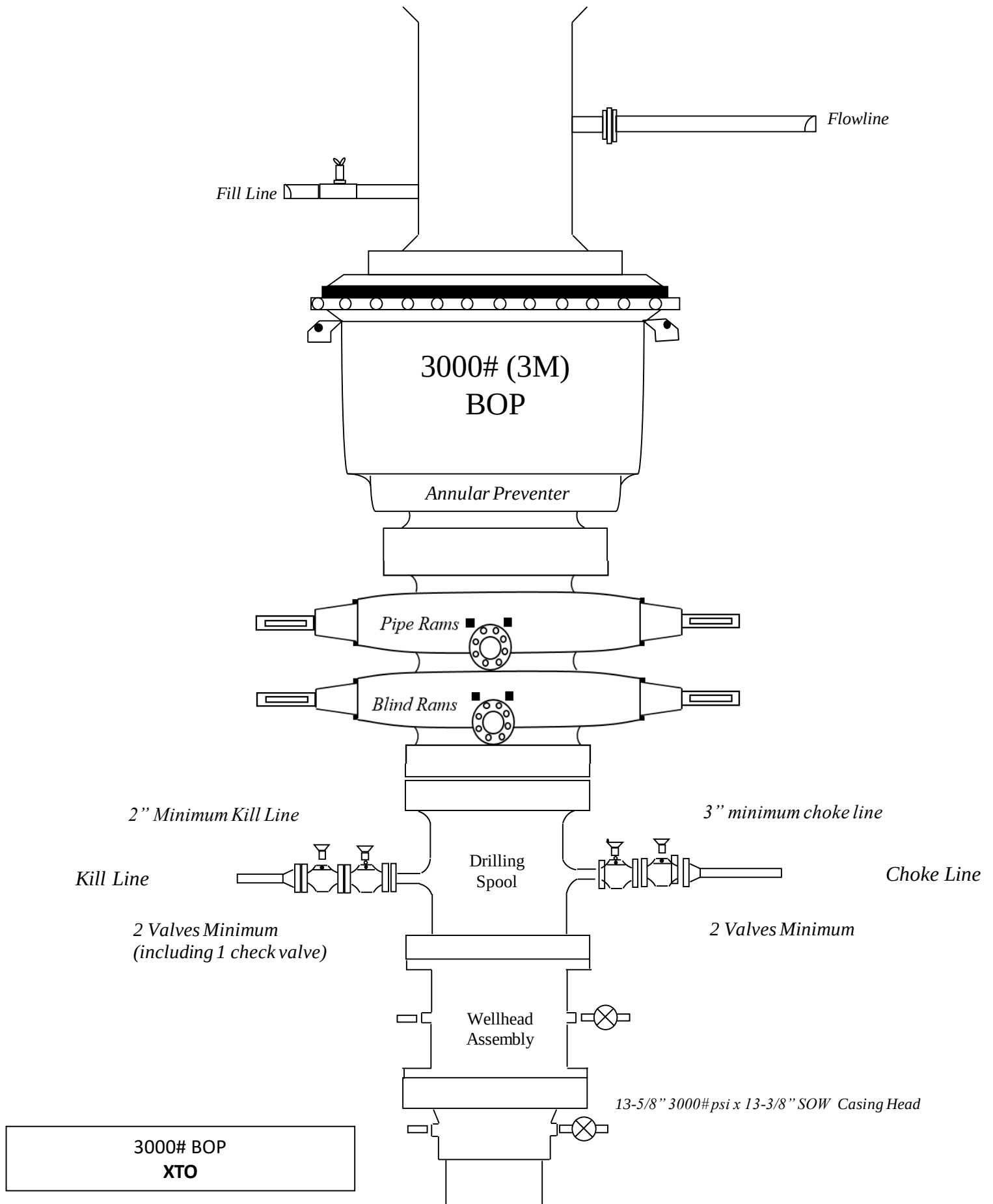
2M & 3M Choke Manifold Diagram
XTO

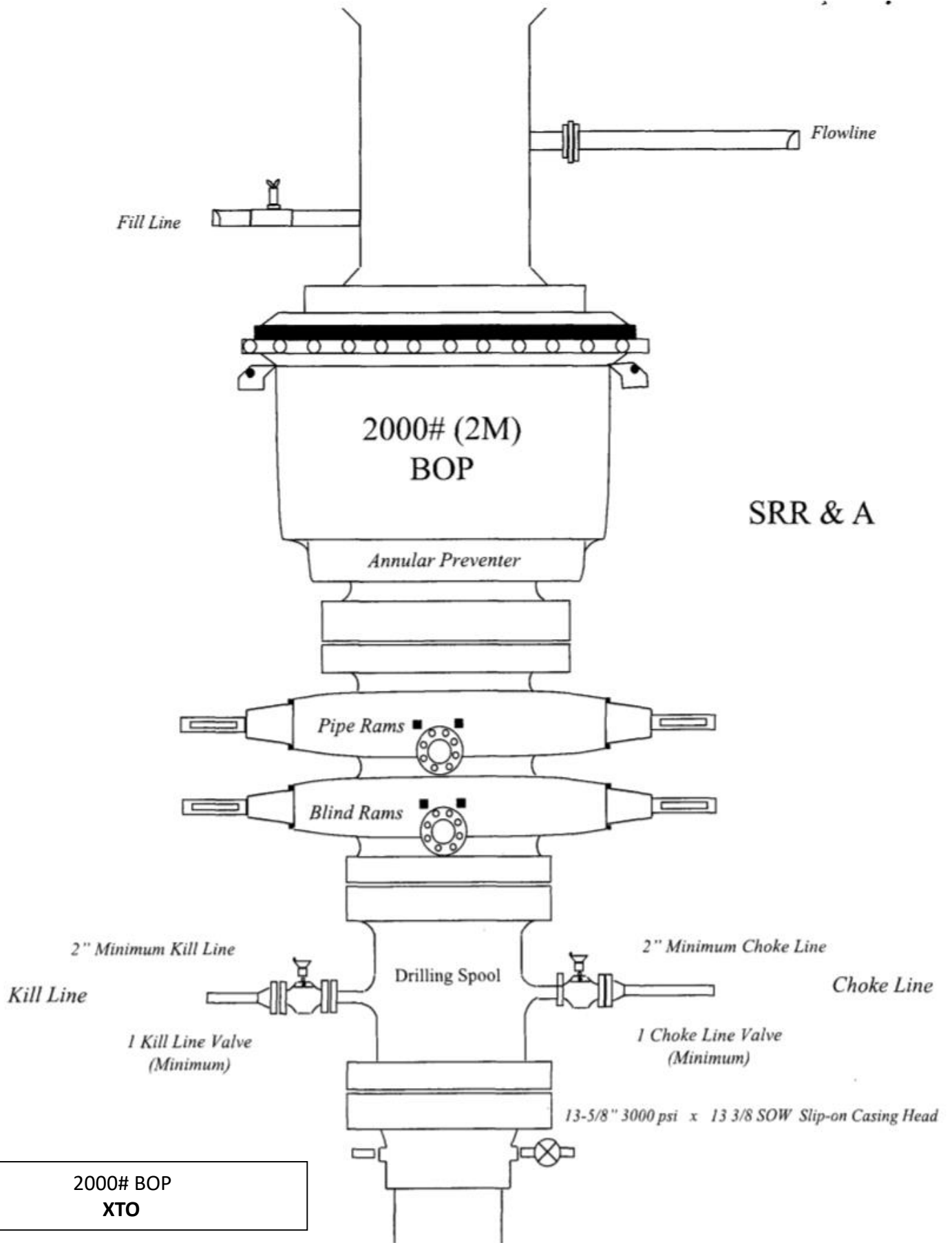
**Drilling Operations
Choke Manifold
2M & 3M Service**



2M & 3M Choke Manifold Diagram
XTO

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





DRILLING PLAN: BLM COMPLIANCE

1. **CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
18-1/8"	0' – 849'	16"	84#	BTC	J-55	New	7.67	3.63	18.59
14-3/4"	0' – 2854'	13-3/8"	68#	STC	HCL-80	New	2.28	2.17	3.48
12-1/4"	0' – 3500'	9-5/8"	40#	LTC	J-55	New	4.21	2.74	3.71
8-3/4"	0' – 17353'	5-1/2"	17#	BTC	P-110	New	1.12	1.65	2.31

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

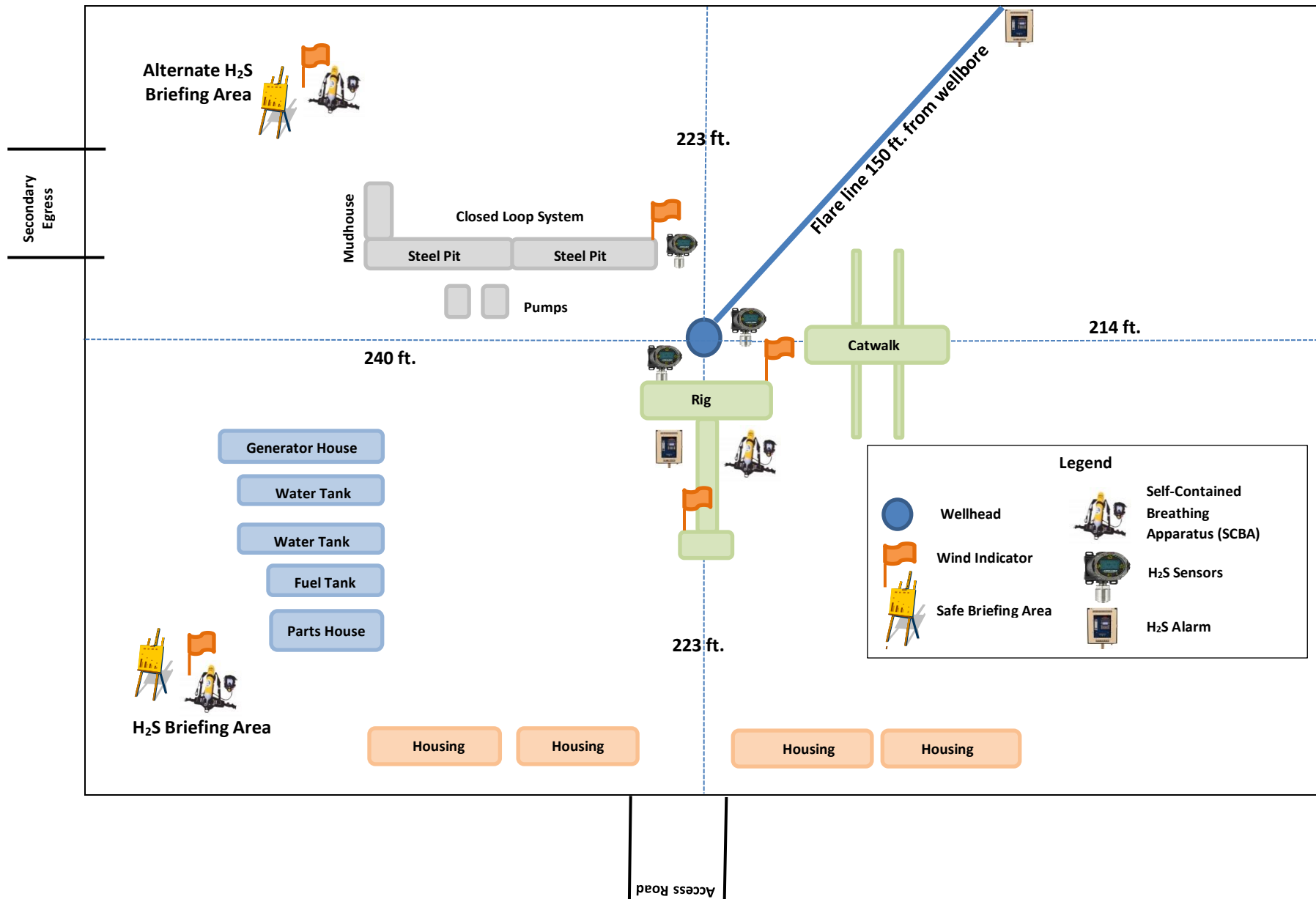
WELLHEAD:Temporary Wellhead

- 16" SOW x 16-3/4" 3M top flange

Permanent Wellhead – GE RSH Multibowl System

- A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- 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.
 - Manufacturer will witness installation of test plug for initial test.
 - Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

H₂S Briefing Areas and Alarm Locations





HYDROGEN SULFIDE (H₂S) CONTINGENCY PLAN

Assumed 100 ppm ROE = 3000'

100 ppm H₂S concentration shall trigger activation of this plan.

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must

- Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- Evacuate any public places encompassed by the 100 ppm ROE.
- Be equipped with H₂S monitors and air packs in order to control the release.
- Use the "buddy system" to ensure no injuries occur during the response
- Take precautions to avoid personal injury during this operation.
- Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- Have received training in the
 - o Detection of H₂S, and
 - o Measures for protection against the gas,
 - o Equipment used for protection and emergency response.

Ignition of Gas source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever this is an ignition of the gas.

Characteristics of H₂S and SO₂

Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = 1	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = 1	2 ppm	N/A	1000 ppm

Contacting Authorities

All XTO location personnel must liaison with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. (Operator Name)'s response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

CARLSBAD OFFICE – EDDY & LEA COUNTIES

3104 E. Greene St., Carlsbad, NM 88220
Carlsbad, NM

575-887-7329

XTO PERSONNEL:

Kendall Decker, Drilling Manager
Milton Turman, Drilling Superintendent
Jeff Raines, Construction Foreman
Toady Sanders, EH & S Manager
Wes McSpadden, Production Foreman

903-521-6477
817-524-5107
432-557-3159
903-520-1601
575-441-1147

SHERIFF DEPARTMENTS:

Eddy County
Lea County

575-887-7551
575-396-3611

NEW MEXICO STATE POLICE:

575-392-5588

FIRE DEPARTMENTS:

Carlsbad
Eunice
Hobbs
Jal
Lovington

911
575-885-2111
575-394-2111
575-397-9308
575-395-2221
575-396-2359

HOSPITALS:

Carlsbad Medical Emergency
Eunice Medical Emergency
Hobbs Medical Emergency
Jal Medical Emergency
Lovington Medical Emergency

911
575-885-2111
575-394-2112
575-397-9308
575-395-2221
575-396-2359

AGENT NOTIFICATIONS:**For Lea County:**

Bureau of Land Management – Hobbs
New Mexico Oil Conservation Division – Hobbs

575-393-3612
575-393-6161

For Eddy County:

Bureau of Land Management - Carlsbad
New Mexico Oil Conservation Division - Artesia

575-234-5972
575-748-1283



XTO Energy

Eddy County, NM (NAD-27)

Big Eddy Unit

Big Eddy Unit DI5 BS2-5W #347H

OH

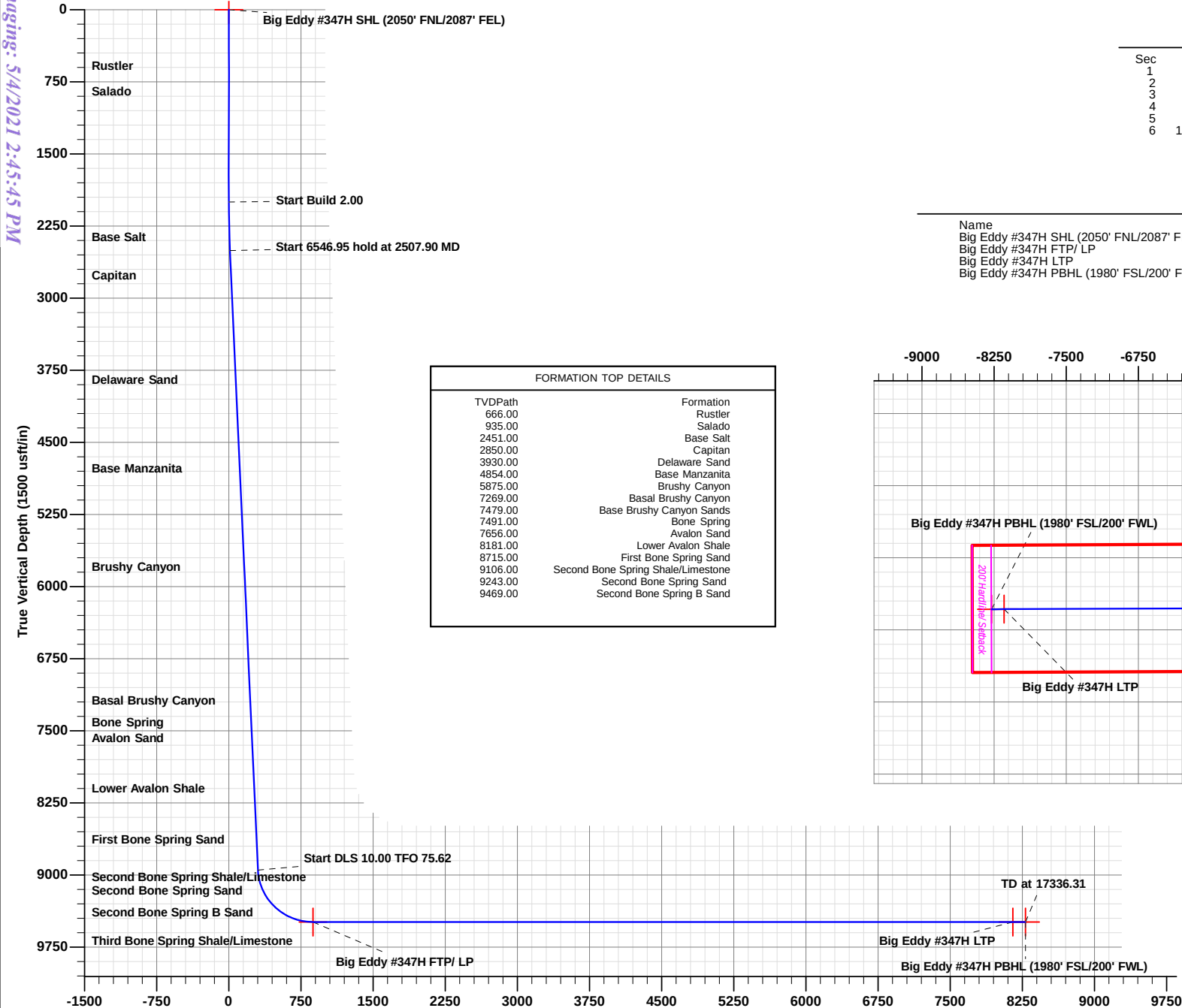
Plan: Plan #1

Standard Planning Report

28 September, 2017



Project: Eddy County, NM (NAD-27)
Site: Big Eddy Unit
Well: Big Eddy Unit DI5 BS2-5W #347H
Wellbore: OH
Design: Plan #1



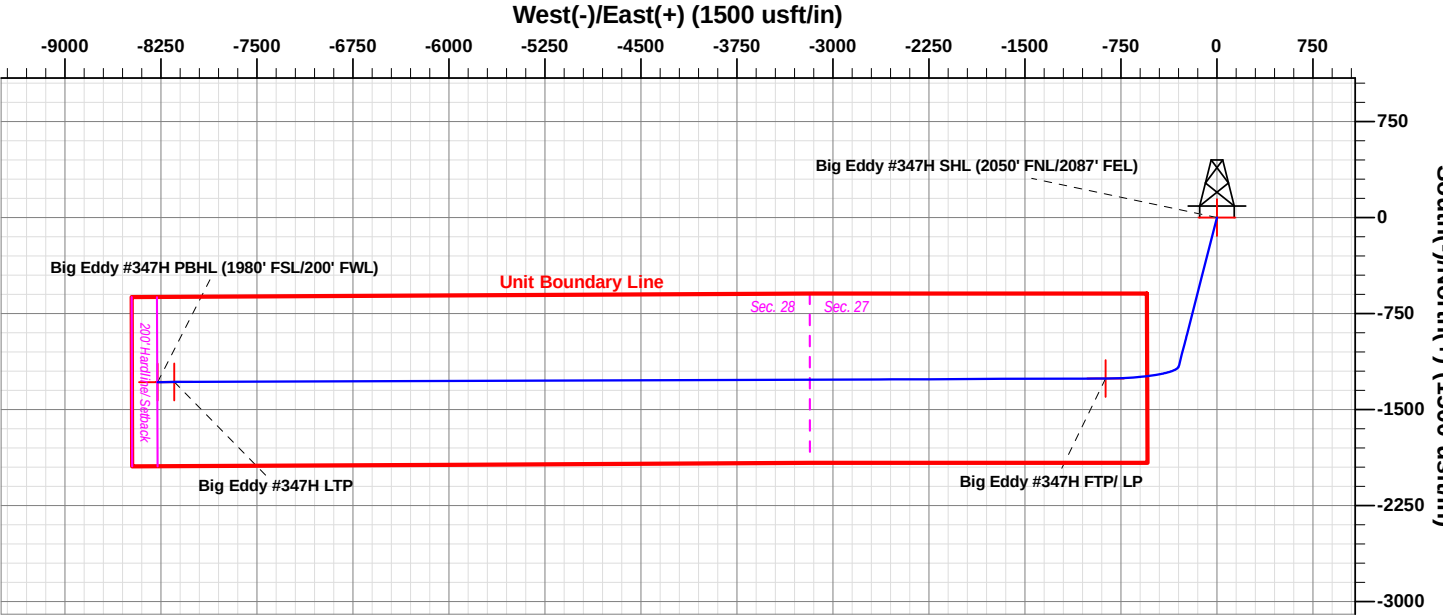
Note: All Plan Details including boundary lines and offset well data is subject to customers approval.

WELL DETAILS: Big Eddy Unit DI5 BS2-5W #347H

		Rig Name: Unknown	
		RKB= 25' @ 3554.00usft (Unknown)	
		Ground Level: 3529.00	
+N/-S	+E/-W	Northing	Easting
0.00	0.00	562598.10	647484.30
		Latitude	Longitude
		32.545779	-103.854715
SECTION DETAILS			
Sec	MD	Inc	Azi
1	0.00	0.00	0.00
2	2000.00	0.00	0.00
3	2507.90	10.16	194.39
4	9054.84	10.16	194.39
5	9929.36	90.00	269.78
6	17336.31	90.00	269.78
		TVD	+N/-S
		0.00	0.00
		9489.00	-1257.60
		9489.00	-1284.80
		9489.00	-1285.40
			+E/-W
			0.00
			-870.10
			-8147.00
			-8277.00
			Northing
			562598.10
			561340.50
			561313.30
			561312.70
			Easting
			647484.30
			646614.20
			639337.30
			639207.30
			Latitude
			32.545779
			32.542333
			32.542346
			32.542346
			Longitude
			-103.854715
			-103.857557
			-103.881171
			-103.881593
			Shape
			Point
			Point
			Point
			Point

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Big Eddy #347H SHL (2050' FNL/2087' FEL)	0.00	0.00	0.00	562598.10	647484.30	32.545779	-103.854715	Point
Big Eddy #347H FTP/ LP	9489.00	-1257.60	-870.10	561340.50	646614.20	32.542333	-103.857557	Point
Big Eddy #347H LTP	9489.00	-1284.80	-8147.00	561313.30	639337.30	32.542346	-103.881171	Point
Big Eddy #347H PBHL (1980' FSL/200' FWL)	9489.00	-1285.40	-8277.00	561312.70	639207.30	32.542346	-103.881593	Point



PROJECT DETAILS: Eddy County, NM (NAD-27)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan: Plan #1 (Big Eddy Unit DI5 BS2-5W #347H/OH)

Created By: Matthew May Date: 11:07, September 28 2017



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (NAD-27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Big Eddy Unit		
Site Position:		Northing:	562,758.10 usft
From:	Map	Easting:	647,697.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.546217
		Longitude:	-103.854020
		Grid Convergence:	0.26 °

Well	Big Eddy Unit DI5 BS2-5W #347H		
Well Position	+N/-S	-160.00 usft	Northing: 562,598.10 usft
	+E/-W	-213.40 usft	Easting: 647,484.30 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32.545779
		Longitude:	-103.854715
		Ground Level:	3,529.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	9/28/2017	7.08	60.31	48,069

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	269.78

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,507.90	10.16	194.39	2,505.24	-43.50	-11.16	2.00	2.00	0.00	194.39	
9,054.85	10.16	194.39	8,949.57	-1,161.92	-298.06	0.00	0.00	0.00	0.00	
9,929.36	90.00	269.78	9,489.00	-1,257.60	-870.10	10.00	9.13	8.62	75.62	Big Eddy #347H FT
17,336.31	90.00	269.78	9,489.00	-1,285.40	-8,277.00	0.00	0.00	0.00	0.00	Big Eddy #347H PE



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	2.00	194.39	2,099.98	-1.69	-0.43	0.44	2.00	2.00	0.00
2,200.00	4.00	194.39	2,199.84	-6.76	-1.73	1.76	2.00	2.00	0.00
2,300.00	6.00	194.39	2,299.45	-15.20	-3.90	3.96	2.00	2.00	0.00
2,400.00	8.00	194.39	2,398.70	-27.01	-6.93	7.03	2.00	2.00	0.00
2,507.90	10.16	194.39	2,505.24	-43.50	-11.16	11.32	2.00	2.00	0.00
2,600.00	10.16	194.39	2,595.90	-59.23	-15.19	15.42	0.00	0.00	0.00
2,700.00	10.16	194.39	2,694.33	-76.31	-19.58	19.87	0.00	0.00	0.00
2,800.00	10.16	194.39	2,792.76	-93.40	-23.96	24.32	0.00	0.00	0.00
2,900.00	10.16	194.39	2,891.20	-110.48	-28.34	28.77	0.00	0.00	0.00
3,000.00	10.16	194.39	2,989.63	-127.56	-32.72	33.21	0.00	0.00	0.00
3,100.00	10.16	194.39	3,088.06	-144.65	-37.11	37.66	0.00	0.00	0.00
3,200.00	10.16	194.39	3,186.49	-161.73	-41.49	42.11	0.00	0.00	0.00
3,300.00	10.16	194.39	3,284.93	-178.81	-45.87	46.56	0.00	0.00	0.00
3,400.00	10.16	194.39	3,383.36	-195.90	-50.25	51.00	0.00	0.00	0.00
3,500.00	10.16	194.39	3,481.79	-212.98	-54.63	55.45	0.00	0.00	0.00
3,600.00	10.16	194.39	3,580.23	-230.06	-59.02	59.90	0.00	0.00	0.00
3,700.00	10.16	194.39	3,678.66	-247.15	-63.40	64.35	0.00	0.00	0.00
3,800.00	10.16	194.39	3,777.09	-264.23	-67.78	68.80	0.00	0.00	0.00
3,900.00	10.16	194.39	3,875.52	-281.31	-72.16	73.24	0.00	0.00	0.00
4,000.00	10.16	194.39	3,973.96	-298.39	-76.55	77.69	0.00	0.00	0.00
4,100.00	10.16	194.39	4,072.39	-315.48	-80.93	82.14	0.00	0.00	0.00
4,200.00	10.16	194.39	4,170.82	-332.56	-85.31	86.59	0.00	0.00	0.00
4,300.00	10.16	194.39	4,269.25	-349.64	-89.69	91.03	0.00	0.00	0.00
4,400.00	10.16	194.39	4,367.69	-366.73	-94.08	95.48	0.00	0.00	0.00
4,500.00	10.16	194.39	4,466.12	-383.81	-98.46	99.93	0.00	0.00	0.00
4,600.00	10.16	194.39	4,564.55	-400.89	-102.84	104.38	0.00	0.00	0.00
4,700.00	10.16	194.39	4,662.98	-417.98	-107.22	108.83	0.00	0.00	0.00
4,800.00	10.16	194.39	4,761.42	-435.06	-111.60	113.27	0.00	0.00	0.00
4,900.00	10.16	194.39	4,859.85	-452.14	-115.99	117.72	0.00	0.00	0.00
5,000.00	10.16	194.39	4,958.28	-469.23	-120.37	122.17	0.00	0.00	0.00
5,100.00	10.16	194.39	5,056.71	-486.31	-124.75	126.62	0.00	0.00	0.00
5,200.00	10.16	194.39	5,155.15	-503.39	-129.13	131.07	0.00	0.00	0.00
5,300.00	10.16	194.39	5,253.58	-520.48	-133.52	135.51	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,400.00	10.16	194.39	5,352.01	-537.56	-137.90	139.96	0.00	0.00	0.00
5,500.00	10.16	194.39	5,450.44	-554.64	-142.28	144.41	0.00	0.00	0.00
5,600.00	10.16	194.39	5,548.88	-571.73	-146.66	148.86	0.00	0.00	0.00
5,700.00	10.16	194.39	5,647.31	-588.81	-151.05	153.30	0.00	0.00	0.00
5,800.00	10.16	194.39	5,745.74	-605.89	-155.43	157.75	0.00	0.00	0.00
5,900.00	10.16	194.39	5,844.17	-622.98	-159.81	162.20	0.00	0.00	0.00
6,000.00	10.16	194.39	5,942.61	-640.06	-164.19	166.65	0.00	0.00	0.00
6,100.00	10.16	194.39	6,041.04	-657.14	-168.57	171.10	0.00	0.00	0.00
6,200.00	10.16	194.39	6,139.47	-674.22	-172.96	175.54	0.00	0.00	0.00
6,300.00	10.16	194.39	6,237.90	-691.31	-177.34	179.99	0.00	0.00	0.00
6,400.00	10.16	194.39	6,336.34	-708.39	-181.72	184.44	0.00	0.00	0.00
6,500.00	10.16	194.39	6,434.77	-725.47	-186.10	188.89	0.00	0.00	0.00
6,600.00	10.16	194.39	6,533.20	-742.56	-190.49	193.34	0.00	0.00	0.00
6,700.00	10.16	194.39	6,631.63	-759.64	-194.87	197.78	0.00	0.00	0.00
6,800.00	10.16	194.39	6,730.07	-776.72	-199.25	202.23	0.00	0.00	0.00
6,900.00	10.16	194.39	6,828.50	-793.81	-203.63	206.68	0.00	0.00	0.00
7,000.00	10.16	194.39	6,926.93	-810.89	-208.01	211.13	0.00	0.00	0.00
7,100.00	10.16	194.39	7,025.36	-827.97	-212.40	215.57	0.00	0.00	0.00
7,200.00	10.16	194.39	7,123.80	-845.06	-216.78	220.02	0.00	0.00	0.00
7,300.00	10.16	194.39	7,222.23	-862.14	-221.16	224.47	0.00	0.00	0.00
7,400.00	10.16	194.39	7,320.66	-879.22	-225.54	228.92	0.00	0.00	0.00
7,500.00	10.16	194.39	7,419.09	-896.31	-229.93	233.37	0.00	0.00	0.00
7,600.00	10.16	194.39	7,517.53	-913.39	-234.31	237.81	0.00	0.00	0.00
7,700.00	10.16	194.39	7,615.96	-930.47	-238.69	242.26	0.00	0.00	0.00
7,800.00	10.16	194.39	7,714.39	-947.56	-243.07	246.71	0.00	0.00	0.00
7,900.00	10.16	194.39	7,812.82	-964.64	-247.46	251.16	0.00	0.00	0.00
8,000.00	10.16	194.39	7,911.26	-981.72	-251.84	255.61	0.00	0.00	0.00
8,100.00	10.16	194.39	8,009.69	-998.81	-256.22	260.05	0.00	0.00	0.00
8,200.00	10.16	194.39	8,108.12	-1,015.89	-260.60	264.50	0.00	0.00	0.00
8,300.00	10.16	194.39	8,206.55	-1,032.97	-264.98	268.95	0.00	0.00	0.00
8,400.00	10.16	194.39	8,304.99	-1,050.05	-269.37	273.40	0.00	0.00	0.00
8,500.00	10.16	194.39	8,403.42	-1,067.14	-273.75	277.84	0.00	0.00	0.00
8,600.00	10.16	194.39	8,501.85	-1,084.22	-278.13	282.29	0.00	0.00	0.00
8,700.00	10.16	194.39	8,600.28	-1,101.30	-282.51	286.74	0.00	0.00	0.00
8,800.00	10.16	194.39	8,698.72	-1,118.39	-286.90	291.19	0.00	0.00	0.00
8,900.00	10.16	194.39	8,797.15	-1,135.47	-291.28	295.64	0.00	0.00	0.00
9,000.00	10.16	194.39	8,895.58	-1,152.55	-295.66	300.08	0.00	0.00	0.00
9,054.85	10.16	194.39	8,949.57	-1,161.92	-298.06	302.52	0.00	0.00	0.00
9,100.00	12.09	215.74	8,993.89	-1,169.62	-301.82	306.31	10.00	4.28	47.29
9,150.00	15.52	231.15	9,042.45	-1,178.07	-310.09	314.61	10.00	6.86	30.82
9,200.00	19.62	240.69	9,090.12	-1,186.39	-322.63	327.18	10.00	8.21	19.08
9,250.00	24.06	246.93	9,136.53	-1,194.49	-339.34	343.92	10.00	8.87	12.49
9,300.00	28.67	251.30	9,181.32	-1,202.34	-360.09	364.70	10.00	9.22	8.73
9,350.00	33.38	254.53	9,224.16	-1,209.86	-384.72	389.36	10.00	9.43	6.47
9,400.00	38.17	257.04	9,264.71	-1,217.00	-413.05	417.72	10.00	9.56	5.02
9,450.00	42.99	259.07	9,302.68	-1,223.70	-444.86	449.56	10.00	9.65	4.05
9,500.00	47.84	260.75	9,337.77	-1,229.91	-479.91	484.63	10.00	9.71	3.38
9,550.00	52.72	262.20	9,369.71	-1,235.60	-517.94	522.68	10.00	9.75	2.89
9,600.00	57.61	263.47	9,398.27	-1,240.70	-558.64	563.40	10.00	9.78	2.54
9,650.00	62.51	264.61	9,423.22	-1,245.19	-601.72	606.50	10.00	9.80	2.28
9,700.00	67.42	265.65	9,444.37	-1,249.02	-646.85	651.64	10.00	9.82	2.08
9,750.00	72.34	266.62	9,461.56	-1,252.18	-693.67	698.48	10.00	9.83	1.94
9,800.00	77.26	267.54	9,474.67	-1,254.63	-741.85	746.66	10.00	9.84	1.84
9,850.00	82.18	268.42	9,483.59	-1,256.37	-791.00	795.82	10.00	9.85	1.77



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,900.00	87.11	269.28	9,488.26	-1,257.36	-840.75	845.57	10.00	9.85	1.72
9,929.36	90.00	269.78	9,489.00	-1,257.60	-870.10	874.92	10.00	9.85	1.71
10,000.00	90.00	269.78	9,489.00	-1,257.87	-940.74	945.56	0.00	0.00	0.00
10,100.00	90.00	269.78	9,489.00	-1,258.24	-1,040.74	1,045.56	0.00	0.00	0.00
10,200.00	90.00	269.78	9,489.00	-1,258.62	-1,140.74	1,145.56	0.00	0.00	0.00
10,300.00	90.00	269.78	9,489.00	-1,258.99	-1,240.74	1,245.56	0.00	0.00	0.00
10,400.00	90.00	269.78	9,489.00	-1,259.37	-1,340.74	1,345.56	0.00	0.00	0.00
10,500.00	90.00	269.78	9,489.00	-1,259.74	-1,440.74	1,445.56	0.00	0.00	0.00
10,600.00	90.00	269.78	9,489.00	-1,260.12	-1,540.73	1,545.56	0.00	0.00	0.00
10,700.00	90.00	269.78	9,489.00	-1,260.49	-1,640.73	1,645.56	0.00	0.00	0.00
10,800.00	90.00	269.78	9,489.00	-1,260.87	-1,740.73	1,745.56	0.00	0.00	0.00
10,900.00	90.00	269.78	9,489.00	-1,261.24	-1,840.73	1,845.56	0.00	0.00	0.00
11,000.00	90.00	269.78	9,489.00	-1,261.62	-1,940.73	1,945.56	0.00	0.00	0.00
11,100.00	90.00	269.78	9,489.00	-1,261.99	-2,040.73	2,045.56	0.00	0.00	0.00
11,200.00	90.00	269.78	9,489.00	-1,262.37	-2,140.73	2,145.56	0.00	0.00	0.00
11,300.00	90.00	269.78	9,489.00	-1,262.74	-2,240.73	2,245.56	0.00	0.00	0.00
11,400.00	90.00	269.78	9,489.00	-1,263.12	-2,340.73	2,345.56	0.00	0.00	0.00
11,500.00	90.00	269.78	9,489.00	-1,263.49	-2,440.73	2,445.56	0.00	0.00	0.00
11,600.00	90.00	269.78	9,489.00	-1,263.87	-2,540.73	2,545.56	0.00	0.00	0.00
11,700.00	90.00	269.78	9,489.00	-1,264.25	-2,640.73	2,645.56	0.00	0.00	0.00
11,800.00	90.00	269.78	9,489.00	-1,264.62	-2,740.73	2,745.56	0.00	0.00	0.00
11,900.00	90.00	269.78	9,489.00	-1,265.00	-2,840.73	2,845.56	0.00	0.00	0.00
12,000.00	90.00	269.78	9,489.00	-1,265.37	-2,940.72	2,945.56	0.00	0.00	0.00
12,100.00	90.00	269.78	9,489.00	-1,265.75	-3,040.72	3,045.56	0.00	0.00	0.00
12,200.00	90.00	269.78	9,489.00	-1,266.12	-3,140.72	3,145.56	0.00	0.00	0.00
12,300.00	90.00	269.78	9,489.00	-1,266.50	-3,240.72	3,245.56	0.00	0.00	0.00
12,400.00	90.00	269.78	9,489.00	-1,266.87	-3,340.72	3,345.56	0.00	0.00	0.00
12,500.00	90.00	269.78	9,489.00	-1,267.25	-3,440.72	3,445.56	0.00	0.00	0.00
12,600.00	90.00	269.78	9,489.00	-1,267.62	-3,540.72	3,545.56	0.00	0.00	0.00
12,700.00	90.00	269.78	9,489.00	-1,268.00	-3,640.72	3,645.56	0.00	0.00	0.00
12,800.00	90.00	269.78	9,489.00	-1,268.37	-3,740.72	3,745.56	0.00	0.00	0.00
12,900.00	90.00	269.78	9,489.00	-1,268.75	-3,840.72	3,845.56	0.00	0.00	0.00
13,000.00	90.00	269.78	9,489.00	-1,269.12	-3,940.72	3,945.56	0.00	0.00	0.00
13,100.00	90.00	269.78	9,489.00	-1,269.50	-4,040.72	4,045.56	0.00	0.00	0.00
13,200.00	90.00	269.78	9,489.00	-1,269.88	-4,140.72	4,145.56	0.00	0.00	0.00
13,300.00	90.00	269.78	9,489.00	-1,270.25	-4,240.72	4,245.56	0.00	0.00	0.00
13,400.00	90.00	269.78	9,489.00	-1,270.63	-4,340.71	4,345.56	0.00	0.00	0.00
13,500.00	90.00	269.78	9,489.00	-1,271.00	-4,440.71	4,445.56	0.00	0.00	0.00
13,600.00	90.00	269.78	9,489.00	-1,271.38	-4,540.71	4,545.56	0.00	0.00	0.00
13,700.00	90.00	269.78	9,489.00	-1,271.75	-4,640.71	4,645.56	0.00	0.00	0.00
13,800.00	90.00	269.78	9,489.00	-1,272.13	-4,740.71	4,745.56	0.00	0.00	0.00
13,900.00	90.00	269.78	9,489.00	-1,272.50	-4,840.71	4,845.56	0.00	0.00	0.00
14,000.00	90.00	269.78	9,489.00	-1,272.88	-4,940.71	4,945.56	0.00	0.00	0.00
14,100.00	90.00	269.78	9,489.00	-1,273.25	-5,040.71	5,045.56	0.00	0.00	0.00
14,200.00	90.00	269.78	9,489.00	-1,273.63	-5,140.71	5,145.56	0.00	0.00	0.00
14,300.00	90.00	269.78	9,489.00	-1,274.00	-5,240.71	5,245.56	0.00	0.00	0.00
14,400.00	90.00	269.78	9,489.00	-1,274.38	-5,340.71	5,345.56	0.00	0.00	0.00
14,500.00	90.00	269.78	9,489.00	-1,274.75	-5,440.71	5,445.56	0.00	0.00	0.00
14,600.00	90.00	269.78	9,489.00	-1,275.13	-5,540.71	5,545.56	0.00	0.00	0.00
14,700.00	90.00	269.78	9,489.00	-1,275.51	-5,640.71	5,645.56	0.00	0.00	0.00
14,800.00	90.00	269.78	9,489.00	-1,275.88	-5,740.71	5,745.56	0.00	0.00	0.00
14,900.00	90.00	269.78	9,489.00	-1,276.26	-5,840.70	5,845.56	0.00	0.00	0.00
15,000.00	90.00	269.78	9,489.00	-1,276.63	-5,940.70	5,945.56	0.00	0.00	0.00
15,100.00	90.00	269.78	9,489.00	-1,277.01	-6,040.70	6,045.56	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
15,200.00	90.00	269.78	9,489.00	-1,277.38	-6,140.70	6,145.56	0.00	0.00	0.00	
15,300.00	90.00	269.78	9,489.00	-1,277.76	-6,240.70	6,245.56	0.00	0.00	0.00	
15,400.00	90.00	269.78	9,489.00	-1,278.13	-6,340.70	6,345.56	0.00	0.00	0.00	
15,500.00	90.00	269.78	9,489.00	-1,278.51	-6,440.70	6,445.56	0.00	0.00	0.00	
15,600.00	90.00	269.78	9,489.00	-1,278.88	-6,540.70	6,545.56	0.00	0.00	0.00	
15,700.00	90.00	269.78	9,489.00	-1,279.26	-6,640.70	6,645.56	0.00	0.00	0.00	
15,800.00	90.00	269.78	9,489.00	-1,279.63	-6,740.70	6,745.56	0.00	0.00	0.00	
15,900.00	90.00	269.78	9,489.00	-1,280.01	-6,840.70	6,845.56	0.00	0.00	0.00	
16,000.00	90.00	269.78	9,489.00	-1,280.38	-6,940.70	6,945.56	0.00	0.00	0.00	
16,100.00	90.00	269.78	9,489.00	-1,280.76	-7,040.70	7,045.56	0.00	0.00	0.00	
16,200.00	90.00	269.78	9,489.00	-1,281.14	-7,140.70	7,145.56	0.00	0.00	0.00	
16,300.00	90.00	269.78	9,489.00	-1,281.51	-7,240.69	7,245.56	0.00	0.00	0.00	
16,400.00	90.00	269.78	9,489.00	-1,281.89	-7,340.69	7,345.56	0.00	0.00	0.00	
16,500.00	90.00	269.78	9,489.00	-1,282.26	-7,440.69	7,445.56	0.00	0.00	0.00	
16,600.00	90.00	269.78	9,489.00	-1,282.64	-7,540.69	7,545.56	0.00	0.00	0.00	
16,700.00	90.00	269.78	9,489.00	-1,283.01	-7,640.69	7,645.56	0.00	0.00	0.00	
16,800.00	90.00	269.78	9,489.00	-1,283.39	-7,740.69	7,745.56	0.00	0.00	0.00	
16,900.00	90.00	269.78	9,489.00	-1,283.76	-7,840.69	7,845.56	0.00	0.00	0.00	
17,000.00	90.00	269.78	9,489.00	-1,284.14	-7,940.69	7,945.56	0.00	0.00	0.00	
17,100.00	90.00	269.78	9,489.00	-1,284.51	-8,040.69	8,045.56	0.00	0.00	0.00	
17,200.00	90.00	269.78	9,489.00	-1,284.89	-8,140.69	8,145.56	0.00	0.00	0.00	
17,300.00	90.00	269.78	9,489.00	-1,285.26	-8,240.69	8,245.56	0.00	0.00	0.00	
17,336.31	90.00	269.78	9,489.00	-1,285.40	-8,277.00	8,281.87	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
Big Eddy #347H SHL - hit/miss target - plan hits target center - Shape - Point	0.00	0.00	0.00	0.00	0.00	562,598.10	647,484.30	32.545779	-103.854715	
Big Eddy #347H PBH - plan hits target center - Point	0.00	0.00	9,489.00	-1,285.40	-8,277.00	561,312.70	639,207.30	32.542346	-103.881593	
Big Eddy #347H FTP/ - plan hits target center - Point	0.00	0.00	9,489.00	-1,257.60	-870.10	561,340.50	646,614.20	32.542333	-103.857557	
Big Eddy #347H LTP - plan misses target center by 0.11usft at 17206.31usft MD (9489.00 TVD, -1284.91 N, -8147.00 E) - Point	0.00	0.00	9,489.00	-1,284.80	-8,147.00	561,313.30	639,337.30	32.542346	-103.881171	



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Big Eddy Unit DI5 BS2-5W #347H
Company:	XTO Energy	TVD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Project:	Eddy County, NM (NAD-27)	MD Reference:	RKB= 25' @ 3554.00usft (Unknown)
Site:	Big Eddy Unit	North Reference:	Grid
Well:	Big Eddy Unit DI5 BS2-5W #347H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
666.00	666.00	Rustler				
935.00	935.00	Salado				
2,452.88	2,451.00	Base Salt				
2,858.15	2,850.00	Capitan				
3,955.35	3,930.00	Delaware Sand				
4,894.06	4,854.00	Base Manzanita				
5,931.32	5,875.00	Brushy Canyon				
7,347.52	7,269.00	Basal Brushy Canyon				
7,560.86	7,479.00	Base Brushy Canyon Sands				
7,573.05	7,491.00	Bone Spring				
7,740.68	7,656.00	Avalon Sand				
8,274.04	8,181.00	Lower Avalon Shale				
8,816.54	8,715.00	First Bone Spring Sand				
9,216.94	9,106.00	Second Bone Spring Shale/Limestone				
9,372.86	9,243.00	Second Bone Spring Sand				
9,776.39	9,469.00	Second Bone Spring B Sand				

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

Submit Original
to Appropriate
District Office

GAS CAPTURE PLAN

Date: 10/31/2018

☒ Original Operator & OGRID No.: XTO Permian Operating, LLC [260737]
☐ Amended - Reason for Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
Big Eddy Unit DI5 BS2-5W 347H		G-27-20S-31E	2050'FNL & 2087'FEL	2500 MCF/D	Sold	CTB Connected

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to DCP Midstream and will be connected to DCP Midstream low/high pressure gathering system located in Eddy County, New Mexico. It will require 0' of pipeline to connect the facility to low/high pressure gathering system. XTO Permian Operating, LLC, provides (periodically) to DCP Midstream a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, XTO Permian Operating, LLC, and DCP Midstream have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP Midstream Processing Plant located in Sec. 19, Twn. 19S, Rng. 32E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP Midstream system at that time. Based on current information, it is XTO Permian Operating, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

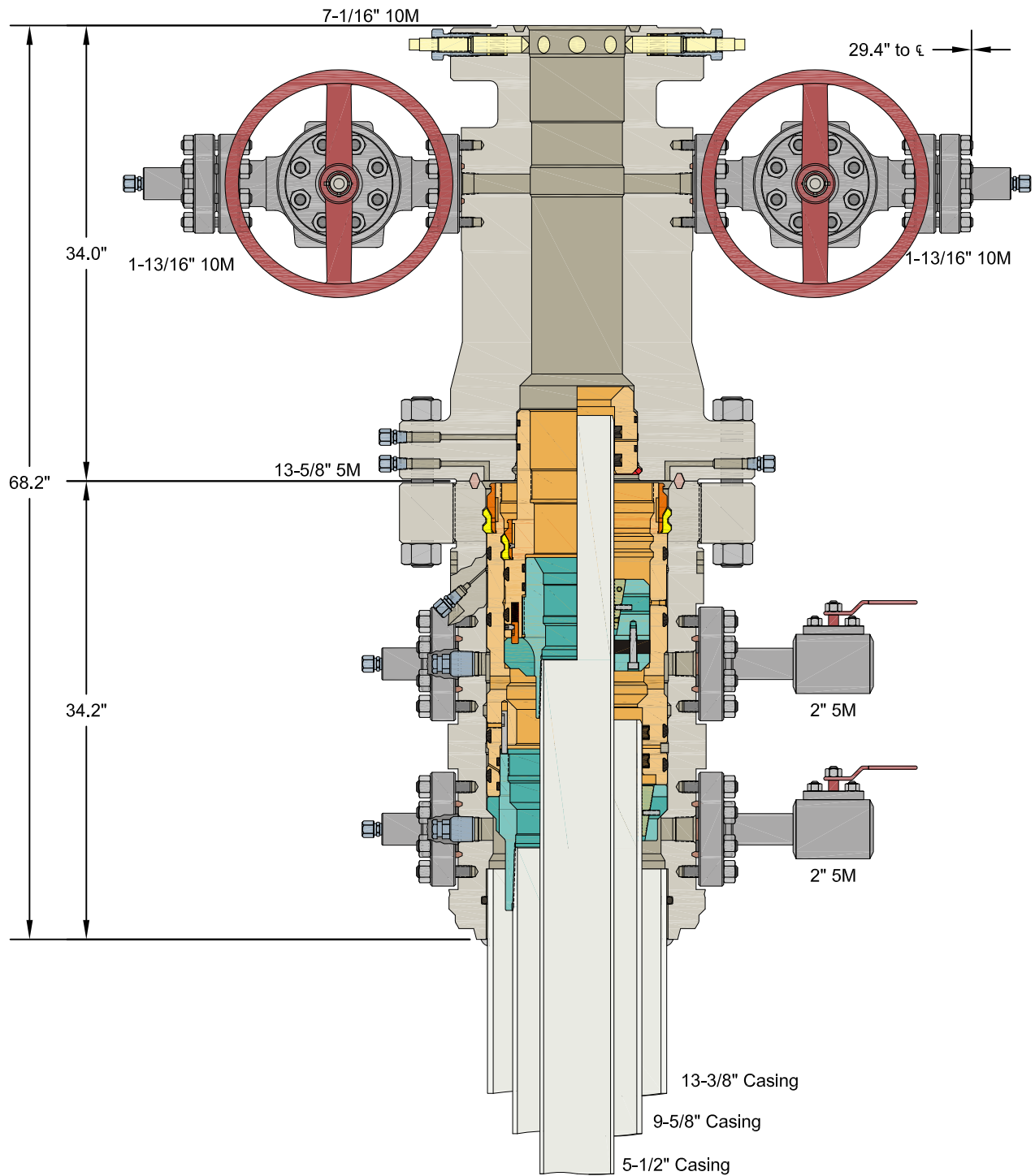
Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



GE Oil & Gas



ALL DIMENSIONS ARE APPROXIMATE

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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



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

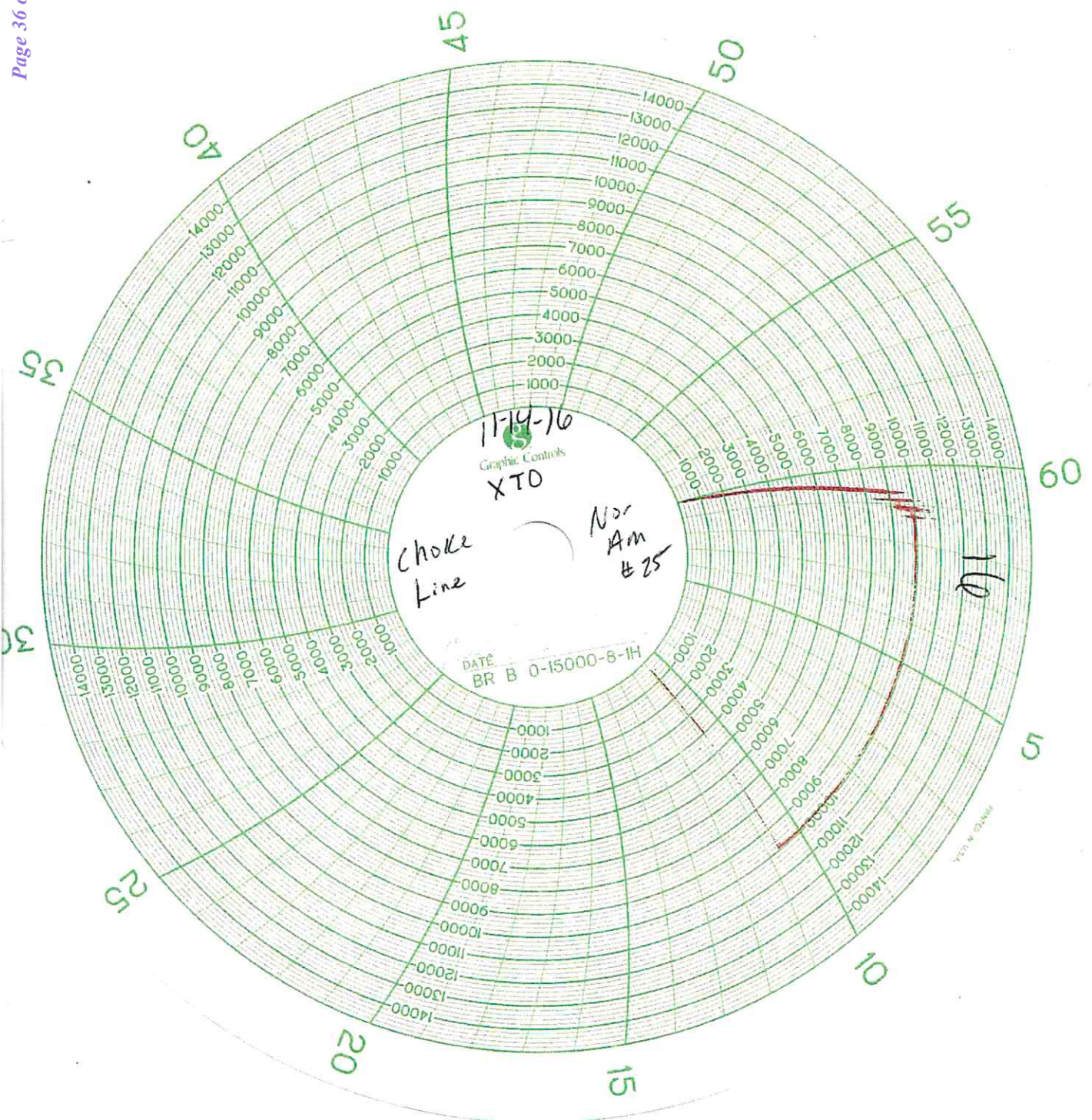
Customer:	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref.:	PENDING	Hose Serial No.:	D-060814-1
Invoice No.:	201709	Created By:	NORMA

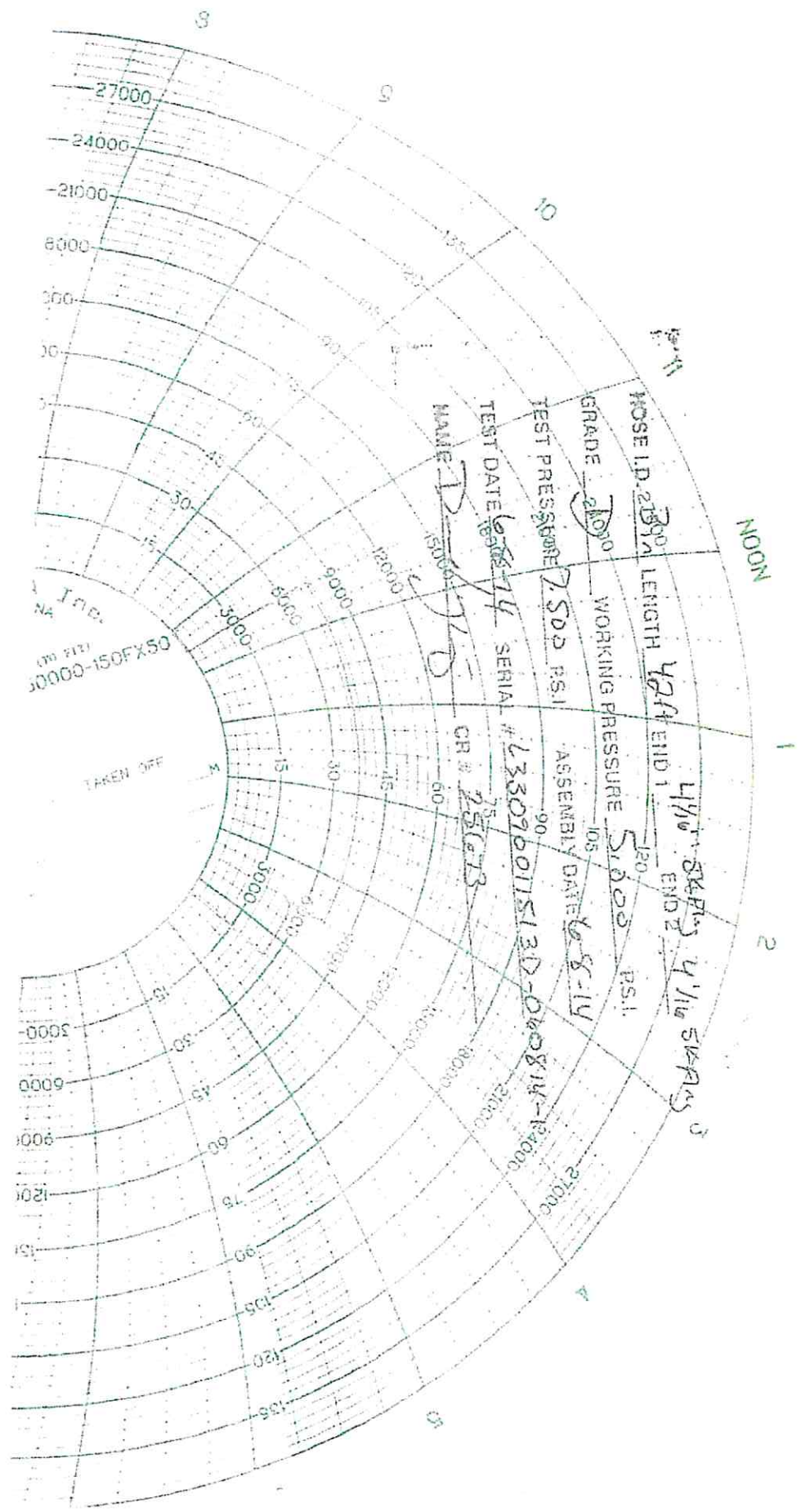
Product Description:	FD3-042-0R41/16.5KFLGE/E LE
----------------------	-----------------------------

End Filling 1:	4 1/16 in.5K FLG	End Filling 2:	4 1/16 in.5K FLG
Gates Part No.:	4274-6001	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 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:	Signature:	Quality:	Signature:
Date:	6/8/2014	Date:	6/8/2014
Technical Supervisor:	Signature:	Technical Supervisor:	Signature:
	6/8/2014		6/8/2014
	PRODUCTION		PRODUCTION





Operator Name: XTO PERMIAN OPERATING LLC**Well Name:** BIG EDDY UNIT DI5 BS2-5W**Well Number:** 347H**Reserve pit liner specifications and installation description**

Cuttings Area

Cuttings Area being used? NO**Are you storing cuttings on location?** YES

Description of cuttings location Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

Cuttings area length (ft.)**Cuttings area width (ft.)****Cuttings area depth (ft.)****Cuttings area volume (cu. yd.)****Is at least 50% of the cuttings area in cut?****WCuttings area liner****Cuttings area liner specifications and installation description**

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO**Ancillary Facilities attachment:****Comments:**

Section 9 - Well Site Layout

Well Site Layout Diagram:

BEU_DI5_347H_Well_20181120122029.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance **Multiple Well Pad Name:** BEU DI**Multiple Well Pad Number:** 5**Recontouring attachment:**

Drainage/Erosion control construction: All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches.

Drainage/Erosion control reclamation: Erosion features are equal to or less than surrounding area and erosion control is

District I
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

COMMENTS

Action 26522

COMMENTS

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD BUILDING 5 MIDLAND, TX79707		OGRID: 373075	Action Number: 26522	Action Type: FORM 3160-3
Created By kpickford	Comment KP GEO Review 5/4/2021	Comment Date 05/04/2021		

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CONDITIONS

Action 26522

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
XTO PERMIAN OPERATING LLC. BUILDING 5	6401 HOLIDAY HILL ROAD MIDLAND, TX79707	373075	26522	FORM 3160-3

OCD Reviewer	Condition
kpickford	Notify OCD 24 hours prior to casing & cement
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing
kpickford	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system