Form 3160-3 (June 2015)

NM OIL CONSERVATION

ARTESIA DISTRICT

UNITED STATES DEPARTMENT OF THE INTERIORCT 29 2019 BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REGINTER

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

5. Lease Serial No. NMNM0025533

6. If Indian, Allotee or Tribe Name

	,						
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ O	EENTI Other	_			7. If Unit or CA Agre POKER LAKE / NM 8. Lease Name and V	INM07	1016X
1c. Type of Completion: Hydraulic Fracturing	ingle Z	one _	Multiple Zone		POKER LAKE UNI 162H 326a		VR
2. Name of Operator XTO PERMIAN OPERATING LLC					9. API Well No. 30-0/3		16431
3a. Address- 6401 Holiday Hill Road, Bldg 5 Midland TX 79707	1	hone N 682-88	o. (include area cod 373	e)	10. Field and Pool, o PURPLE SAGE WO	•	•
4. Location of Well (Report location clearly and in accordance of At surface NWNW / 5 FNL / 785 FWL / LAT 32.210054 At proposed prod. zone SWSW / 200 FSL / 1170 FWL / 1170 F	4 / LON	NG -10	3.82314	21922	11. Sec., T. R. M. or SEC 19 / T24S / R3		=
14. Distance in miles and direction from nearest town or post off	ice*		······································		12. County or Parish EDDY		13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. N 324.3		res in lease	17. Spacir 640	ng Unit dedicated to th	is well	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 35 feet			l Depth / 22926 feet		BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3495 feet	1	pproxii 1/2019	mate date work will	start*	23. Estimated duration 60 days	on	
	24.	Attac	hments				
The following, completed in accordance with the requirements o (as applicable)	f Onsh	ore Oil	and Gas Order No. I	i, and the H	lydraulic Fracturing ru	le per 4	3 CFR 3162.3-3
 Well plat certified by a registered surveyor. A Drilling Plan. 			4. Bond to cover th Item 20 above).	e operation	s unless covered by an	existing	s bond on file (see
3. A Surface Use Plan (if the location is on National Forest Syste SUPO must be filed with the appropriate Forest Service Office		is, the	Operator certific Such other site sp BLM.		mation and/or plans as	may be	requested by the
25. Signature (Electronic Submission)			(Printed/Typed) (ardos / Ph. (432)6	520-4374	ì	Date 05/31/2	2019
Title Regulatory Coordinator							
Approved by (Signature)	···-	Nama	(Printed/Typed)		·····	Date	
(Electronic Submission)			(<i>Friniea/Typea)</i> Layton / Ph: (575)2	234-5959		10/24/	2019
Title Assistant Field Manager Lands & Minerals		Office CARL			,		
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	nt holds	s legal o	or equitable title to the	ose rights	in the subject lease wh	ich wo	ald entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements					•	ny depa	rtment or agency



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | XTO Permian Operating, LLC.

LEASE NO.: | NMNM-0025533

WELL NAME & NO.: | Poker Lake Unit 18 TWR 162H

SURFACE HOLE FOOTAGE: | 0005' FNL & 0785' FWL

BOTTOM HOLE FOOTAGE | 0200' FSL & 1170' FWL Sec. 30, T. 24 S., R 31 E.

LOCATION: Section 19, T. 24 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 Water Basin:

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 at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements.

Page 2 of 8

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.

Possibility of water flows in the Salado and Castile.

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

Abnormal pressure may be encountered in the 3rd Bone Spring and all subsequent formations.

- 1. The 18-5/8 inch surface casing shall be set at approximately 680 feet (in a competent bed below the Magenta Dolomite, which is a Member of the Rustler, and if salt is encountered, set casing at least 25 feet above the salt) and cemented to the surface.
 - 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 intermediate casing is:

	Т	Cement to surface.	If cement does	not circulate see	B.1.a, c-d a	above
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Formation below the 13-3/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

9-5/8" Intermediate casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.

3. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:

Operator has proposed DV tool at depth of 4200', 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:	

- Example 2 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. Excess calculates to 16% Additional cement may be required.
- b. Second stage above DV tool:
- Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Formation below the 9-5/8" shoe to be tested according to Onshore Order 2.III.B.1.i. Test to be done as a mud equivalency test using the mud weight necessary for the pore pressure of the formation below the shoe (not the mud weight required to prevent dissolving the salt formation) and the mud weight for the bottom of the hole. Report results to BLM office.

Centralizers required on horizontal leg, must be type for horizontal service and a minimum of one every other joint.

- 5-1/2" Production casing shall be kept fluid filled while running into hole to meet BLM minimum collapse requirements.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:

- Cement should tie-back at least 200 feet into previous casing string. 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.

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" intermediate casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8" intermediate casing shoe shall be psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

Page 5 of 8

- 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" intermediate casing integrity test 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.

Variance approved to use a 5M annular. The annular must be tested to full working pressure (5000 psi.)

10M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

- 5. The appropriate BLM office shall be notified a minimum of hours in advance for a representative to witness the tests.
 - a. In a water basin, 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. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - a. The tests shall be done by an independent service company utilizing a test plug **not** a **cup** or **J-packer**.
 - b. 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.

Page 6 of 8

Approval Date: 10/24/2019

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.

- c. The results of the test shall be reported to the appropriate BLM office.
- d. 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.
- e. 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.
- f. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

D. **DRILLING MUD**

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

E. DRILL STEM TEST

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

F. 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

Operator Certification Data Report

Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are

NAME: Kelly Kardos		Signed on: 05/31/2019
Title: Regulatory Coordinator		
Street Address:		
City:	State:	Zip:
Phone: (432)620-4374		
Email address: kelly_kardos@xt	oenergy.com	
Field Representativ	'e	
Representative Name:		
Street Address:	·	
City:	State:	Zip:
Phone:		
Email address:		



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

Application Data Report

10/24/2019

APD ID: 10400042230

Submission Date: 05/31/2019

Highlighted data

Operator Name: XTO PERMIAN OPERATING LLC

reflects the most

recent changes

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

APD ID:

10400042230

Tie to previous NOS? Y

Submission Date: 05/31/2019

BLM Office: CARLSBAD

User: Kelly Kardos

Title: Regulatory Coordinator

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM0025533

Lease Acres: 324.37

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? YES

Federal or Indian agreement: FEDERAL

Agreement number: NMNM071016X

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: XTO PERMIAN OPERATING LLC

Operator letter of designation:

Operator Info

Operator Organization Name: XTO PERMIAN OPERATING LLC

Operator Address: 6401 Holiday Hill Road, Bldg 5

Zip: 79707

Operator PO Box:

Operator City: Midland

State: TX

Operator Phone: (432)682-8873

Operator Internet Address:

Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Well API Number:

Field/Pool or Exploratory? Field and Pool

Field Name: PURPLE SAGE

Pool Name:

WOLFCAMP GAS

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Is the proposed well in an area containing other mineral resources? USEABLE WATER

Is the proposed well in a Helium production area? N

Use Existing Well Pad? NO

New surface disturbance?

Type of Well Pad: MULTIPLE WELL

Multiple Well Pad Name:

Number: 1

Well Class: HORIZONTAL

POKER LAKE UNIT 18 TWR

Number of Legs: 1

Well Work Type: Drill

Well Type: CONVENTIONAL GAS WELL

Describe Well Type:

Well sub-Type: DELINEATION

Describe sub-type:

Distance to town:

Distance to nearest well: 35 FT

Distance to lease line: 330 FT

Reservoir well spacing assigned acres Measurement: 640 Acres

Well plat:

PLU_18_TWR_162H_C102_20190528115010.pdf

Well work start Date: 11/01/2019

Duration: 60 DAYS

Section 3 - Well Location Table

Survey Type: RECTANGULAR

Describe Survey Type:

Datum: NAD83

Vertical Datum: NAVD88

Survey number:

Reference Datum:

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
	5	FNL	785	FWL	24S	31E	19	NWN	32.21005 4	- 103.8231 4	EDD Y	NEW MEXI	NEW MEXI		NMNM 002553	349 5	0	0	
1	5	FÑL	785	FWL	24\$	31E	19	NWN	32.21005 4	- 103.8231 4		NEW MEXI	NEW MEXI	F	NMNM 002553	- 844 1	119 54	119 36	
	330	FNL	117 0	FWL	24\$	31E	30	NWN	32.19371 6	- 103.8234 27	1	NEW MEXI	NEW MEXI	F	NMNM 000050	- 904 2	181 68	125 37	

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Wellbore	NS-Foot	NS Indicator	EW-Foot	EW Indicator	Twsp	Range	Section	Aliquot/Lot/Tract	Latitude	Longitude	County	State	Meridian	Lease Type	Lease Number	Elevation	MD	TVD	Will this well produce
	231 0	FSL	117	FWL	24S	31E	19	NWS	32.20098 2	- 103.8234 31	EDD Y	NEW MEXI		F	NMLC0 061705	1	155 28	125 37	
	330	FNL	117 0	FWL	24\$	31E	30	NWN	32.19371 6	- 103.8234 27	EDD Y	NEW MEXI	NEW MEXI	ļ	NMNM 000050	- 904 2	181 68	125 37	
	330	FNL	117 0	FWL	24S	31E	30	NWN	32.19371 6	- 103.8234 27	EDD Y	NEW MEXI	NEW MEXI	l	NMNM 000050	- 904 2	181 68	125 37	
	231 0	FSL	117 0	FWL	24S	31E	19	NWS	32.20098 2	1	EDD Y	NEW MEXI	NEW MEXI	l	NMLC0 061705	-	155 28 :	125 37	
	330	FNL	117 0	FWL	248	31E	19	NWN	32.20916 1		EDD Y	NEW MEXI		1	NMNM 002553	-	128 88	125 37	
	231 0	FSL	117 0	FWL	24S	31E	19	NWS	32.20098 2	- 103.8234 31	EDD Y	NEW MEXI	NEW MEXI	1	NMLC0 061705	-	155 28	125 37	
	330	FNL	117 0	FWL	248	31E	19	NWN	32.20916 1	- 103.8218 96		NEW MEXI		I	NMNM 002553	- 904 2	128 88	125 37	
	330	FNL	117 0	FWL	248	31E	19	NWN	32.20916 1	- 103.8218 96	1	NEW MEXI	ſ		NMNM 002553	1	128 88	125 37	
	330	FSL	117 0	FWL	248	31E	30	sws	32.18192 3	- 103.8219 22	l	NEW MEXI			NMLC0 061705		227 92	125 37	
	200	FSL	117 0	FWL	248	31E	30	sws	32.18156 6	- 103.8219 22	l	NEW MEXI		F	NMLC0 061705	l .	229 26	125 46	



Drilling Plan Data Report

10/24/2019

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

APD ID: 10400042230

Submission Date: 05/31/2019

Highlighted data reflects the most

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 162H

recent changes

Well Name: POKER LAKE UNIT 18 TWR

Show Final Text

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - Geologic Formations

Formation	•		True Vertical	Measured			Producing
ID .	Formation Name	Elevation	Depth	Depth	Lithologies	Mineral Resources	I -
1	PERMIAN	3495	0	0	OTHER : Quaternary	NONE	N
2	RUSTLER	2978	517	517	SILTSTONE	USEABLE WATER	N
3	TOP SALT	2607	888	888	SALT	OTHER : Produced Water	N
4	BASE OF SALT	-517	4012	4012	SALT	OTHER : Produced Water	N
5	DELAWARE	-767	4261	4261	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced	N _
6	BONE SPRING	-4632	8127	8127	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced	N
7	BONE SPRING 1ST	-5584	9078	9078	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced	N
8	BONE SPRING 2ND	-6364	9858	9858	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced	N
9	BONE SPRING 3RD	-7523	11017	11017	SANDSTONE	OTHER,NATURAL GAS,OIL : Produced	N
10	WOLFCAMP	-7912	11407	11407	SHALE	OTHER,NATURAL GAS,OIL : Produced	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 10M

Rating Depth: 12537

Equipment: The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 1245 psi. Once the perminent wellhead is installed the blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 10M Hydril and a 13-5/8" minimum 10M Double Ram BOP. MASP should not exceed 5391 psi.

Requesting Variance? YES

Variance request: XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint. 13-3/8" Collapse analyzed using 50% evacuation based on regional experience. 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 Permanent Wellhead – GE RSH Multibowl System A. Starting Head (RSH System): 13-3/8" SOW bottom x 13-5/8" 5M top flange B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange • Wellhead will be installed by manufacturer's representatives. • Manufacturer will monitor welding process to ensure appropriate

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

temperature of seal. • Operator will test the 8-5/8" casing per Onshore Order 2. • Wellhead manufacturer representative may not be present for BOP test plug installation 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.

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 nippling up on the 13-5/8" 10M bradenhead and flange, the BOP test will be limited to 10000 psi. When the 11-3/4" and 8-5/8" casing is set, the packoff seals will be tested to a minimum of 10000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 10M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_18_TWR_2M3MCM_20190523130558.pdf PLU_18_TWR_10MCM_20190528095222.pdf

BOP Diagram Attachment:

PLU_18_TWR_Multi_20190523130747.pdf
PLU_18_TWR_10MBOP_20190528095233.pdf
PLU_18_TWR_2MBOP_20190528095200.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	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	24	18.625	NEW	API	N	0	680	0	680			680	J-55	87.5	витт	2.05	1.81	DRY	23.1	DRY	23.1
2	INTERMED IATE	17.5	13.375	NEW	API	N	0	4150	0	4150			4150	HCL -80	68	витт	2.31	1.67	DRY	10.4 1	DRY	10.4
	INTERMED IATE	12.2 5	9.625	NEW	API	N	0	11407	0	11407			11407	HCL -80	40	BUTT	1.27	1.02	BUOY	2.77	DRY	2.77
	PRODUCTI ON	8.75	5.5	NEW	API	N	0	22922	0	12537			22922	P- 110	17	BUTT	1.37	1.01	DRY	2.04	DRY	2.04

Casing Attachments

Casing Attachments Casing ID: 1 String Type: SURFACE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PLU_18_TWR_162H_Csg_20190528115901.pdf Casing ID: 2 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PLU_18_TWR_162H_Csg_20190528115909.pdf Casing ID: 3 String Type: INTERMEDIATE **Inspection Document: Spec Document: Tapered String Spec:** Casing Design Assumptions and Worksheet(s): PLU_18_TWR_162H_Csg_20190528115917.pdf

Well Number: 162H

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18 TWR

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Casing Attachments

Casing ID: 4

String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_18_TWR_162H_Csg_20190528115925.pdf

Section 4 - Cement

String Type	Lead/Tail	Stage Tool	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	680	500	1.87	12.8	935	100	EconoCem- HLTRRC	None
SURFACE	Tail		-		550	1.35	14.8	742.5	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	4150	2450	1.88	12.8	4606	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail		-		850	1.35	14.8	1147. 5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	4200	0	1140 7	1130	1.87	12.8	2113. 1	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail		1	·	390	1.35	14.8	526.5	100	Halcem-C	2% CaCl
INTERMEDIATE	Lead	:	4250	1140 . 7	2050	1.88	12.8	3854	100	Halcem-C	2% CaCl
INTERMEDIATE	Tail				470	1.33	14.8	625.1	100	Halcem-C	2% CaCl
PRODUCTION	Lead		0	2292 2	1840	1.88	11.5	3459. 2	20	Halcem-C	2% CaCl
PRODUCTION	Tail				2610	1.33	13.2	3471. 3	20	VersaCem	None

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

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 (İbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Hd	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1140	1253	OTHER : FW / Cut Brine / Poly / OBM	12.2	12.8							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
4150	1140	OTHER : FW / Cut Brine	9.1	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
0	680	OTHER : FW/Native	8.4	8.8	·						A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

								_			
Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	НА	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
					·						solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
680	4150	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,MUDLOG

Coring operation description for the well:

No coring will take place on this well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 8149

Anticipated Surface Pressure: 5388.88

Anticipated Bottom Hole Temperature(F): 170

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Potential loss of circulation through the Capitan Reef.

Contingency Plans geoharzards 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

Well Name: POKER LAKE UNIT 18 TWR Well Number: 162H

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:

PLU_18_TWR_H2S_DiaE_20190523132628.pdf PLU_18_TWR_H2S_DiaW_20190523132638.pdf PLU_18_TWR_H2S_Plan_20190523132617.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_18_TWR_162H_DD_20190528120221.pdf

Other proposed operations facets description:

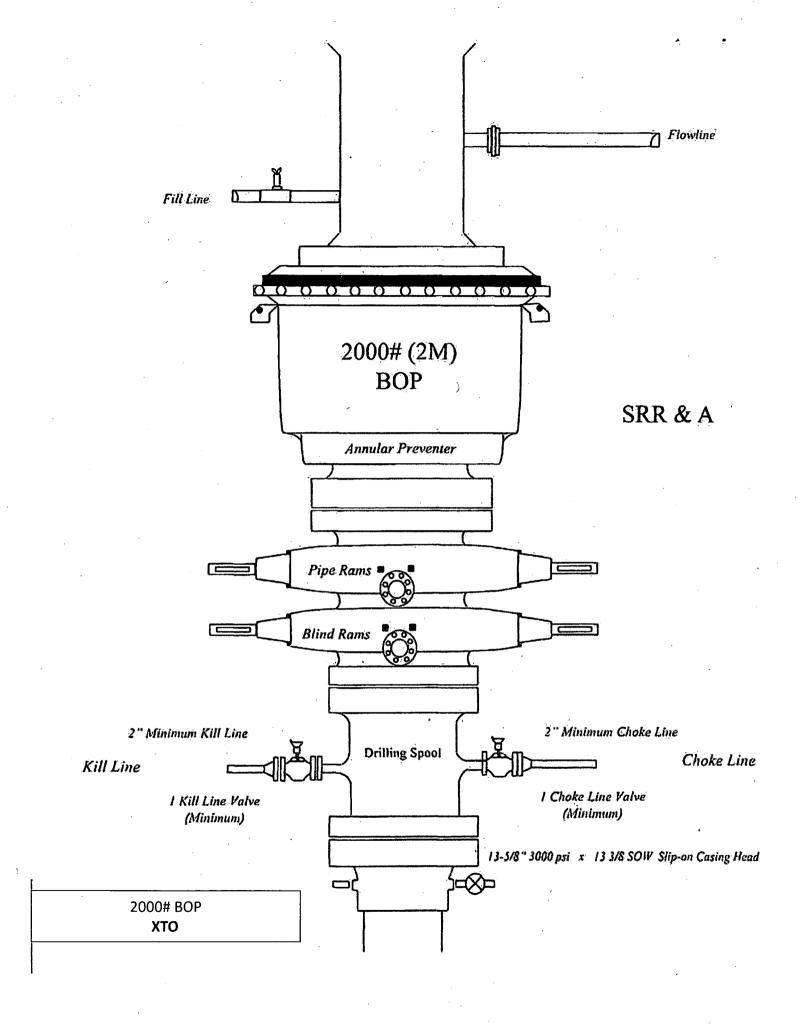
The surface fresh water sands will be protected by setting 18-5/8 inch casing @ 690' (207' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8 inch casing at 4150' and circulating cement to surface. A 12-1/4 inch vertical hole will be drilled to 11407' and 9-5/8 inch casing ran and cemented 500' into the 13-3/8 inch casing. An8-3/4 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 9-5/8 inch casing shoe.

Other proposed operations facets attachment:

PLU_18_TWR_GCPE_20191008103730.pdf PLU 18 TWR GCPW 20191008103745.pdf

Other Variance attachment:

PLU_18_TWR_FH_20190523132910.pdf





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 = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	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 HOSPITALS:	911 575-885-2111 575-394-2111 575-397-9308 575-395-2221 575-396-2359
Carlsbad Medical Emergency Eunice Medical Emergency Hobbs Medical Emergency Jal Medical Emergency Lovington Medical Emergency	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)

Eddy County, NM (NAD-27) Poker Lake Unit 18 TWR #162H

OH

Plan: PERMIT

Standard Planning Report

07 May, 2019



Project: Eddy County, NM (NAD-27) Site: Poker Lake Unit 18 TWR Well: #162H

Site: Poker La Well: #162H Wellbore: OH Design: PERMIT

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

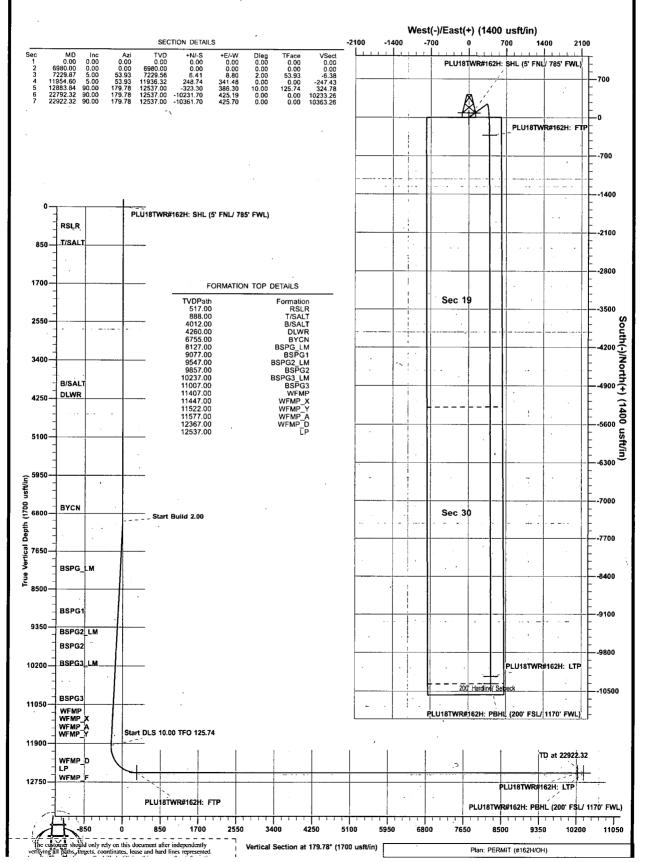
WELL DETAILS: #162H

Rig Name: RKB = 22' @ 3517.00usft Ground Level: 3495.00 Easting L 657946.50 32.20

+N/-S +E/-W Northing Easting Latitude Longitud 0.00 0.00 440467.50 657946.50 32.2099308 -103.822655

DESIGN TARGET DETAILS

Name PLJ18TWR#162H: SHL (5' FNL/ 785' FWL) PLJ18TWR#162H: FTP PLJ18TWR#162H: LTP PLJ18TWR#162H: PBHL (200' FSL/ 1170' FWL)	TVD 0.00 12537.00 12537.00 12537.00	+N/-S 0.00 -323.30 -10231.70 -10361.70	+E/-W 0.00 386.30 425.20 425.70	Northing 440467.50 440144.20 430235.80 430105.80	Easting 657946.50 658332.80 658371.70 658372.20	Latitude 32.2099308 32.2090371 32.1817994 32.1814420	-103.8226558 -103.8214118 -103.8214385	Shape Point Point Point Point
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Database: EDM 5000.1.13 Single User Db

Company: XTO Energy

Project: Eddy County, NM (NAD-27) Site:

Poker Lake Unit 18 TWR

Well: #162H Wellbore: ОН Design: **PERMIT** Local Co-ordinate Reference: Well #162H

TVD Reference: RKB = 22' @ 3517.00usft

MD Reference: RKB = 22' @ 3517.00usft

North Reference: Grid

0.00 usft

Ground Level:

Survey Calculation Method: Minimum Curvature

Project Eddy County, NM (NAD-27)

Map System: Geo Datum:

NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

US State Plane 1927 (Exact solution) System Datum: Mean Sea Level

Site Poker Lake Unit 18 TWR

Northing: Site Position: 440,397.40 usft Latitude: 32,2097382 Easting: From: Мар 657,946.80 usft Longitude: -103.8226558 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 0.27°

Well #162H **Well Position** +N/-S 70.10 usft Northina: 440.467.50 usft Latitude: 32.2099309 +E/-W -0.30 usft Easting: 657,946.50 usft Longitude: -103.8226557 **Position Uncertainty** 0.00 usft Wellhead Elevation:

Wellbore ЮĤ

Magnetics Declination **Model Name** Sample Date Dip Angle Field Strength (°) (nT) (°) 05/07/19 **IGRF2015** 6.87 59.99 47,709

PERMIT Design.

Audit Notes:

Version: PLAN Phase: 0.00 Tie On Depth: **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction

(usft) (usft) (usft) (°) 0.00 0.00 0.00 179.78

Plan Sections Measured Vertical Dogleg Build Turn Depth Inclination Depth +N/-S +E/-W Azimuth Rate Rate Rate **TFO** (usft) (°) (usft) (usft) (usft) (°/100usft) (°/100usft) (°/100usft) Target (°) (°) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 6.980.00 0.00 0.00 6,980.00 0.00 0.00 0.00 0.00 0.00 0.00 7,229.87 5.00 53.93 7,229.56 6.41 8.80 2.00 2.00 0.00 53.93 11,954.60 5.00 53.93 11,936.32 248.74 341.48 0.00 0.00 0.00 0.00 12,883.84 90.00 179.78 12,537.00 -323.30386.30 10.00 9.15 13.54 125.74 PLU18TWR#162H: 22,792.32 90.00 179.78 12,537.00 -10,231.70 425.19 0.00 0.00 0.00 0.00 PLU18TWR#162H: 22,922.32 90.00 179.78 12,537.00 -10,361.70 425.70 0.00 0.00 0.00 0.00 PLU18TWR#162H:

3,495.00 usft



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

Eddy County, NM (NAD-27)

Poker Lake Unit 18 TWR

Well: Wellbore: #162H QH;

Local Co-ordinate Reference: Well #162H

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

anned Survey	-73.4	The state of the s		en and en equipment	*** *** - *** · **		THE RESIDENCE OF		
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
300.00 400.00	0.00 0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	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
517.00	0.00	0.00	517.00	0.00	0.00	0.00	0.00	0.00	0.00
RSLR	····	<u> </u>				s			
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
888.00	0.00	0.00	888.00	0.00	0.00	0.00	0.00	0.00	0.00
T/SALT									
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	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
			·						
3,800.00 3,900.00	0.00 0.00	0.00 0.00	3,800.00 3,900.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00
4,012.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
B/SALT		0.00	4,012.00	0.00		0.00		0.00	
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	, 4 ,100.00						
4,200.00 4,260.00	0.00	0.00 0.00	4,200.00 4,260.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00

4,300.00

4,400.00

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Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) Poker Lake Unit 18 TWR

Well: Wellbore: Design:

#162H OH . PE

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well #162H

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

Pla	anned	Survey
		100
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	: * M	easured

ΞF	M	т .			
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. "	~		7 F 7 F 1	 1 10 7 10	

aime	d Survey	ti an a i al							烈素 はいしょ 寝裏	For the Market State of the State
N	Measured			Vertical			Vertical	Dogleg	Build	Turn
101.	Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Section	Rate	Rate	Rate
	(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
	4,600.00	0.00	0.00	4,600.00	0.00	0.00		0.00	0.00	0.00
	4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
	5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,100.00	0.00	. 0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,755.00	0.00	0.00	6,755.00	0.00	0.00	0.00	0.00	0.00	0.00
<u></u>	6,800.00	0.00	0.00	6.800.00	0.00	0.00	0.00	0.00	0.00	0.00
	6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00 0.00	0.00 0.00	0.00 0.00
	6,980.00	0.00	0.00	6,980.00	0.00	0.00	0.00	0.00	0.00	0.00
	7,000.00	0.40	53.93	7,000.00	0.04	0.06	-0.04	2.00	2.00	0.00
	7,100.00	2.40	53.93	7,000.00	1.48	2.03	-1.47	2.00	2.00	0.00
	7,100.00	4.40	53.93	7,199.78	4.97	6.82	-1.47 -4.94	2.00	2.00	0.00
	7,229.87	5.00	53.93	7,133.76	6.41	8.80	- 4 .9 4	2.00	2.00	0.00
	7,300.00	5.00	53.93	7,299.42	10.01	13.74	-9.96	0.00	0.00	0.00
	7,400.00	5.00	53.93	7,399.04	15.14	20.78	-15.06	0.00	0.00	0.00
	7,500.00	5.00	53.93	7,498.66	20.27	27.82	-20.16	0.00	0.00	0.00
	7,600.00	5.00	53.93	7,598.28	25.40	34.86	-25.26	0.00	0.00	0.00
	7,700.00	5.00	53.93	7,697.90	30.52	41.90	-30.36	0.00	0.00	0.00
	7,800.00	5.00	53.93	7,797.52	35.65	48.95	-35.47	0.00	0.00	0.00
	7,900.00	5.00	53.93	7,897.14	40.78	55.99	-40.57	0.00	0.00	0.00
	8,000.00	5.00	53.93	7,996.76	45.91	63.03	-45.67	0.00	0.00	0.00
	8,100.00	5.00	53.93	8,096.38	51.04	70.07	-50.77	0.00	0.00	0.00
	8,130.74	5.00	53.93	8,127.00	52.62	72.23	-52.34	0.00	0.00	0.00
	BSPG_LM									
	8,200.00	5.00	53.93	8,196.00	56.17	77.11	-55.87	0.00	0.00	0.00
	8,300.00	5.00	53.93	8,295.62	61.30	. 84.15	-60.97	0.00	0.00	0.00
	8,400.00	5.00	53.93	8,395.24	66.43	91.19	-66.08	0.00	0.00	0.00
	8,500.00	5.00	53.93	8,494.86	71.56	98.23	-71.18	0.00	0.00	0.00
	8,600.00	5.00	53.93	8,594.48	76.68	105.28	-76.28	0.00	0.00	0.00
	8,700.00	5.00	53.93	8,694.09	81.81	112.32	-81.38	0.00	0.00	0.00
	8,800.00	5.00	53.93	8,793.71	86.94	119.36	-86.48	0.00	0.00	0.00
	8,900.00	5.00	53.93	8,893.33	92.07	126.40	-91.59	0.00	0.00	0.00
	9,000.00	5.00	53.93	8,992.95	97.20	133.44	-96.69	0.00	0.00	0.00
	9,084.37	5.00	53.93	9,077.00	101.53	139.38	-100.99	0.00	0.00	0.00
,	BSPG1				101.00			0.00	3.00	0.00



Database: EDM 5000.1.13 Single User Db Company:

XTO Energy

Project: Eddy County, NM (NAD-27) Site: Poker Lake Unit 18 TWR

Well: #162H Wellbore: Ю

Local Co-ordinate Reference: Well #162H

TVD Reference: RKB = 22' @ 3517.00usft
MD Reference: RKB = 22' @ 3517.00usft
RKB = 22' @ 3517.00usft
RKB = 22' @ 3517.00usft
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Design:	PERMIT								
Planned Survey	projection of the second				* *	· · · · · · · · · · · · · · · · · · ·		er og skar at samt	e e e e e e e e e e e e e e e e e e e
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)
9,100.00	5.00	53.93	9,092.57	102.33	140.48	-101.79	0.00	0.00	0.00
9,200.00	5.00	53.93	9,192.19	107.46	147.52	-106.89	0.00	0.00	0.00
9,300.00	5.00	53.93	9,291.81	112.59	154.56	-111.99	0.00	0.00	0.00
9,400.00	5.00 5.00	53.93	9,391.43	117.72	161.60	-117.10	0.00	0.00	0.00
9,500.00		53.93	9,491.05	122.85	168.65	-122.20	0.00	0.00	0.00
9,556.16	5.00	53.93	9,547.00	125.73	172.60	-125.06	0.00	0.00	0.00
BSPG2_LN				, je					
9,600.00	5.00	53.93	9,590.67	127.97	175.69	-127.30	0.00	0.00	0.00
9,700.00	5.00	53.93	9,690.29	133.10	182.73	-132.40	0.00	0.00	0.00
9,800.00 9,867.34	5.00 5.00	53.93 53.93	9,789.91 9,857.00	138.23 141.69	189.77 194.51	-137.50	0.00	0.00	0.00
BSPG2	3.00	33.53	9,657.00	141.09	194.51	-140.94	0.00	0.00	0.00
-								· · · · · · · · · · · · · · · · · · ·	
9,900.00	5.00	53.93	9,889.53	143.36	196.81	-142.60	0.00	0.00	0.00
10,000.00	5.00	53.93	9,989.15	148.49	203.85	-147.71	0.00	0.00	0.00
10,100.00	5.00	53.93	10,088.77	153.62	210.89	-152.81	, 0.00	0.00	0.00
10,200.00 10,248.79	5.00 5.00	53.93 53.93	10,188.39	158.75 161.25	217.93	-157.91	0.00	0.00	0.00
BSPG3 LN		55.95	10,237.00	101.25	221.37	-160.40	0.00	0.00	0.00
	* * * * * * * * * * * * * * * * * * * *		**	A	* * * * * * * * * * * * * * * * * * * *				
10,300.00	5.00	53.93	10,288.01	163.88	224.97	-163.01	0.00	0.00	0.00
10,400.00	5.00	53.93	10,387.63	169.01	232.02	-168.11	0.00	0.00	0.00
10,500.00	5.00	53.93	10,487.25	174.13	239.06	-173.22	0.00	0.00	0.00
10,600.00	5.00	53.93	10,586.87	179.26	246.10	-178.32	0.00	0.00	0.00
10,700.00	5.00	53.93	10,686.49	184.39	253.14	-183.42	0.00	0.00	0.00
10,800.00	5.00	53.93	10,786.11	189.52	260.18	-188.52	0.00	0.00	0.00
10,900.00	5.00	53.93	10,885.73	194.65	267.22	-193.62	0.00	0.00	0.00
11,000.00	5.00	53.93	10,985.35	199.78	274.26	-198.72	0.00	0.00	0.00
11,021.73	5.00	53.93	11,007.00	200.89	275.79	-199.83	0.00	0.00	0.00
BSPG3 11,100.00	5.00	53.93	11,084.97	204.91	281.30	-203.83	0.00		0.00
							0.00	0.00	0.00
11,200.00	5.00	53.93	11,184.59	210.04	288.34	-208.93	0.00	0.00	0.00
11,300.00	5.00	53.93	11,284.21	215.17	295.39	-214.03	0.00	0.00	0.00
11,400.00 11,423.26	5.00 5.00	53.93 53.93	11,383.83 11,407.00	220.30 221 <i>.</i> 49	302.43 304.06	-219.13 -220.32	0.00 0.00	0.00 0.00	0.00 0.00
WFMP	3.00	33.33	11,407.00	221.43	304.00	-220.32		0.00	0.00
11,463.41	5.00	53.93	11,447.00	223.55	306.89	-222.37	0.00	0.00	0.00
WFMP_X		****	**************************************		000.00	222.01			0.00
		F2.03	44 400 45	225 42	200.47	**************************************	<u> </u>	0.00	
11,500.00 11,538.70	5.00 5.00	53.93	11,483.45 11,522.00	225.42 227.41	309.47 312.19	-224.23 -226.21	0.00	0.00	0.00
WEMP Y	5.00	53.93	11,522.00	221.41	312.19	-220.21	0.00	0.00	0.00
11,593.91	5.00	53.93	11,577.00	230,24	316.08	-229.03	0.00	0.00	0.00
WFMP A			11,077.00	200.24	310.00	-225.00		0.00	0.00
11,600.00	5.00	53.93	11,583.07	230.55	316.51	-229.34	0.00	0.00	0.00
11,700.00	5.00	53.93	11,682.69	235.68	323.55	-234.44	0.00	0.00	0.00
11.800.00	5.00				330.59				
,	5.00 5.00	53.93	11,782.31	240.81		-239.54	0.00	0.00	0.00
11,900.00 11,954.60	5.00 5.00	53.93 53.93	11,881.93 11,936.32	245.94 248.74	337.63 341.48	-244.64 -247.43	0.00 0.00	0.00 0.00	0.00 0.00
12,000.00	4.36	111.53	11,981.59	249.27	344.68	-247.45	10.00	-1.39	126.87
12,050.00	7.75	148.41		. 245.70	348.22	-244.36	10.00	6.78	73.76
12,100.00									
,	12.29 17.09	160.79	12,080.55	237.79	351.74	-236.44 -224.25	10.00	9.08	24.77
12,150.00 12,200.00	21.98	166.45 169.66	12,128.91 12,176.02	225.61 209.26	355.22 358.62	-224.25 -207.88	10.00 10.00	9.59 9.77	11.30 6.42
12,250.00	26.90	171.74	12,176.02	188.85	361.93	-187.46	10.00	9.85	4.17
12,300.00	31.85	173.22	12,265.08	164.54	365.11	-163.14	10.00	9.89	2.96
_,			,					0.00	



Database: Company: EDM 5000.1.13 Single User Db

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) Poker Lake Unit 18 TWR

Well: Wellbore: #162H. ОН

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well #162H

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

Design: PERMIT Planned Survey

Depth Inclination Azimuth Cyr Cush	Planned Survey						ene se signi	garaga Kabupatèn Kabupatèn	e ekeri e e V	
Depth Inclination Azimuth Depth HAI/S EL/MY Section Rate Rate Rate (ust)	Meacured			Vortical			Vortical	n.	D. 91	
Cust Cy Cy Cust Cust Cust Cy Cust Cy Cy Cust Cy Cy Cy Cy Cy Cy Cy C	I a control of the co	Inclination	Azimuth		181/ 6	1E/ 18/				
12,490.00					· 大型 [1865] - 高山 年 · 大 · 大 · 大 · 大 · · · · · · · · · · ·	A Committee of the Committee of the	and the second of the second o			
12,400.00	12,350.00	36.81	174.34	12,306.36	136.52	368.15	-135.10	10.00	9.92	2.23
12,430,16 44.78 175.68 12,367.00 84.39 372.65 82.95 10.00 9.95 1.51	12,400.00		175.22	12,345.05	104.99	371.01				
WFMP D			175.68	12,367.00	84.39			10.00		
12,450.00 51.73 176.57 12,430.84 70.21 373.69 -68.77 10.00 9.95 1.38 12,550.00 51.73 176.57 12,413.48 32.43 376.15 -30.96 10.00 9.96 1.23 12,550.00 51.73 176.57 12,413.48 32.43 376.15 -30.96 10.00 9.96 1.23 12,550.00 51.69 177.59 12,468.29 -69.95 380.36 52.41 10.00 9.96 1.08 12,650.00 61.69 177.59 12,468.29 -69.95 380.36 52.41 10.00 9.97 0.96 12,650.00 71.66 178.43 12,507.49 -69.95 1380.36 52.41 10.00 9.97 0.97 0.97 12,650.00 71.66 178.43 12,551.48 -190.68 384.68 192.16 10.00 9.97 0.87 12,850.00 81.64 179.18 12,551.89 -239.76 385.54 12.44 10.00 9.97 0.76 12,850.00 81.64 179.18 12,551.89 -239.76 385.54 12.44 10.00 9.97 0.76 12,850.00 81.64 179.18 12,551.89 -239.76 385.54 12.44 10.00 9.97 0.77 12,850.00 98.62 179.58 12,553.00 -333.46 386.50 324.78 10.00 9.97 0.71 12,900.00 99.00 179.78 12,537.00 -333.46 386.56 340.94 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.63 340.94 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.56 340.94 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 387.55 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.36 387.55 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 387.55 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 386.37 54 40.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 -333.46 388.33 540.94 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 13.348.4 388.31 14.00 40 0.00 0.00 0.00 0.00 133.000.00 90.00 179.78 12,537.00 13.348.4 388.31 14.00 40 0.00 0.00 0.00 0.00 0.00 0.00	WFMP_D	entra di tanàna			Bratis II.	7.	*			
12,500.00 51.73 176.57 12,413.48 32,43 376.15 -30.98 10.00 9.96 1.23 12,550.00 55.71 177.11 12,442.70 8.06 378.38 9.51 10.00 9.96 1.08 12,850.00 66.88 178.02 12,450.60 -45.91 380.36 52.41 10.00 9.97 0.98 12,850.00 66.88 178.02 12,490.06 -45.91 380.36 52.41 10.00 9.97 0.97 0.97 12,750.00 76.65 178.81 12,527.48 190.68 383.52 144.08 10.00 9.97 0.81 12,750.00 76.65 178.81 12,527.48 190.68 383.52 144.08 10.00 9.97 0.81 12,850.00 86.62 179.54 12,535.00 -285.84 386.10 250.96 10.00 9.97 0.73 12,850.00 86.62 179.54 12,535.00 -285.84 386.10 250.96 10.00 9.97 0.71 12,850.00 86.62 179.78 12,537.00 -323.30 386.30 324.78 10.00 9.97 0.71 12,900.00 90.00 179.78 12,537.00 -339.46 386.76 440.94 0.00 0.00 0.00 13,000.00 90.00 179.78 12,537.00 -539.46 387.15 40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.15 40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.15 40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.15 40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.15 40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.54 640.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.54 640.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.54 640.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.53 640.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -539.46 387.53 640.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -393.46 389.53 1440.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -393.46 389.53 1440.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 -1,339.45 389.90 14,40.94 0.00 0.00 0.00 13,300.00 90.00 179.78 12,537.00 1,339.45 389.90 14,40.94 0.00 0.00 0.00 14,40.00 90.00 179.78 12,537.00 1,339.45 399.84 1440.94 0.00 0.00 0.00 14,40.00 90.00 179.78 12,537.00 1,339.45 399.84 1440.94 0.00 0.00 0.00 14,40.00 90.00 179.78 12,537.00 1,339.45 399.84 1440.94 0.00 0.00 0.00 0.00 14,40.00 90.00 179.78 12,537.00 1,339.45 399.84 1440.94 0.00 0.00 0.00 0.00 14,40.00 90.00 179.78 12,537.00 1,339.45 399.84 1440.94 0.00 0.00 0			175.95			373.69	-68.77			
12,550,00	12,500.00	51.73	176.57							
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13,900.00 90.00 179.78 12,537.00 -1,339.45 390.29 1,340.94 0.00 0.00 0.00 14,000.00 90.00 179.78 12,537.00 -1,539.45 390.68 1,440.94 0.00 0.00 0.00 0.00 14,200.00 90.00 179.78 12,537.00 -1,539.45 391.47 1,640.94 0.00 0.00 0.00 0.00 14,200.00 90.00 179.78 12,537.00 -1,539.45 391.47 1,640.94 0.00 0.00 0.00 0.00 14,300.00 90.00 179.78 12,537.00 -1,339.45 392.51 1,840.94 0.00 0.00 0.00 0.00 14,400.00 90.00 179.78 12,537.00 -1,339.45 392.64 1,940.94 0.00 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -2,339.45 392.64 1,940.94 0.00 0.00 0.00 0.00 14,600.00 90.00 179.78 12,537.00 -2,339.45 393.04 2,040.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 15,000.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 15,000 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 15,000.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 396.61 2,440.94 0.00 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,539.44 396.61 2,440.94 0.00 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,539.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,239.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,339.44 396.61 2,440.94 0.00 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -3,339.44 396.61 2,440.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 396.61 2,840.94 0.00 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 396.61 2,840.94 0.00 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 396.57 2,940.94 0.00 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 398.53 3,440.94 0.00 0.00 0.00 0.00 16,800.00 90.00 179.78 12,537.00 -3,839.44	13,800.00	90.00	179.78	12,537.00	-1,239.45	389.90			0.00	
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14,200.00 90.00 179.78 12,537.00 -1,639.45 391.47 1,640.94 0.00 0.00 0.00 14,400.00 90.00 179.78 12,537.00 -1,739.45 391.86 1,740.94 0.00 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -1,839.45 392.25 1,840.94 0.00 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -1,939.45 392.64 1,940.94 0.00 0.00 0.00 0.00 14,600.00 90.00 179.78 12,537.00 -2,2039.45 393.04 2,040.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.42 2,140.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,639.44 395.78 2,740.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 395.78 2,740.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.18 2,840.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.18 2,840.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.85 2,840.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 396.85 3,340.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 396.85 3,340.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 396.85 3,340.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 398.53 3,340.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,339.44 398.53 3,340.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,639.44 398.53 3,340.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 0	14,000.00	90.00	179.78	12,537.00	-1,439.45	390.68			0.00	0.00
14,200.00 90.00 179.78 12,537.00 -1,639.45 391.47 1,640.94 0.00 0.00 0.00 14,400.00 90.00 179.78 12,537.00 -1,739.45 391.86 1,740.94 0.00 0.00 0.00 0.00 14,400.00 90.00 179.78 12,537.00 -1,839.45 392.25 1,840.94 0.00 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -1,939.45 392.64 1,940.94 0.00 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -2,239.45 393.04 2,040.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.43 2,140.94 0.00 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,639.44 395.78 2,740.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 395.78 2,740.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.18 2,840.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.18 2,840.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,339.44 396.57 2,940.94 0.00 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -3,339.44 396.57 2,940.94 0.00 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,339.44 396.57 2,940.94 0.00 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,339.44 396.57 3,340.94 0.00 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 398.53 3,340.94 0.00 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 398.53 3,340.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,639.44 398.53 3,340.94 0.00 0.00 0.00 0.00 16,000 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 0.00 16,000 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 0.00 16,	14,100.00	90.00	179.78	12,537.00	-1,539.45	391.07	1,540.94	0.00	0.00	0.00
14,300.00 90.00 179.78 12,537.00 -1,739.45 391.86 1,740.94 0.00 0.00 0.00 14,400.00 90.00 179.78 12,537.00 -1,939.45 392.64 1,940.94 0.00 0.00 0.00 14,600.00 90.00 179.78 12,537.00 -2,039.45 393.04 2,040.94 0.00 0.00 0.00 14,700.00 90.00 179.78 12,537.00 -2,139.45 393.43 2,140.94 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.43 2,140.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,539.44 395.39 2,640.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,	14,200.00		179.78	12,537.00						
14,400.00 90.00 179.78 12,537.00 -1,839.45 392.25 1,840.94 0.00 0.00 0.00 14,500.00 90.00 179.78 12,537.00 -1,939.45 392.64 1,940.94 0.00 0.00 0.00 14,600.00 90.00 179.78 12,537.00 -2,039.45 393.04 2,040.94 0.00 0.00 0.00 14,700.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.78 2,740.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,	14,300.00					391.86	1,740.94			
14,500.00 90.00 179.78 12,537.00 -1,939.45 392.64 1,940.94 0.00 0.00 0.00 14,600.00 90.00 179.78 12,537.00 -2,039.45 393.04 2,040.94 0.00 0.00 0.00 14,700.00 90.00 179.78 12,537.00 -2,239.45 393.43 2,140.94 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,639.44 394.61 2,440.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,	14,400.00	90.00	179.78		-1,839.45				0.00	
14,700.00 90.00 179.78 12,537.00 -2,139.45 393.43 2,140.94 0.00 0.00 0.00 14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,339.44 394.61 2,340.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,639.44 395.00 2,540.94 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,639.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,939.44 396.78 2,840.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,	14,500.00	90.00	179.78	12,537.00	-1,939.45	392.64	1,940.94	0.00	0.00	
14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,639.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.57 2,940.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,	14,600.00	90.00	179.78	12,537.00	-2,039.45	393.04	2,040.94	0.00	0.00	0.00
14,800.00 90.00 179.78 12,537.00 -2,239.45 393.82 2,240.94 0.00 0.00 0.00 14,900.00 90.00 179.78 12,537.00 -2,339.45 394.21 2,340.94 0.00 0.00 0.00 15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,639.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.57 2,940.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,	14,700.00	90.00	179.78	12,537.00	-2,139.45					
15,000.00 90.00 179.78 12,537.00 -2,439.44 394.61 2,440.94 0.00 0.00 0.00 15,100.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.18 2,840.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00	14,800.00	90.00	179.78	12,537.00	-2,239.45	393.82	2,240.94	0.00	0.00	
15,100.00 90.00 179.78 12,537.00 -2,539.44 395.00 2,540.94 0.00 0.00 0.00 15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.57 2,940.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.75 3,240.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,339.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,	14,900.00		179.78	12,537.00		394.21	2,340.94	0.00	0.00	0.00
15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.57 2,940.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,	15,000.00	90.00	179.78	12,537.00	-2,439.44	394.61	2,440.94	0.00	0.00	0.00
15,200.00 90.00 179.78 12,537.00 -2,639.44 395.39 2,640.94 0.00 0.00 0.00 15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.57 2,940.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,	15,100.00	90.00	179.78	12,537.00	-2,539.44	395.00	2,540.94	0.00	0.00	0.00
15,300.00 90.00 179.78 12,537.00 -2,739.44 395.78 2,740.94 0.00 0.00 0.00 15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.57 2,940.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,539.44 398.53 3,440.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,	15,200.00	90.00		12,537.00	-2,639.44	395.39	2,640.94			
15,400.00 90.00 179.78 12,537.00 -2,839.44 396.18 2,840.94 0.00 0.00 0.00 15,500.00 90.00 179.78 12,537.00 -2,939.44 396.57 2,940.94 0.00 0.00 0.00 15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,539.44 398.53 3,440.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,	15,300.00						2,740.94	0.00	0.00	
15,600.00 90.00 179.78 12,537.00 -3,039.44 396.96 3,040.94 0.00 0.00 0.00 15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,539.44 398.53 3,440.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,						396.18		0.00	0.00	0.00
15,700.00 90.00 179.78 12,537.00 -3,139.44 397.35 3,140.94 0.00 0.00 0.00 15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,439.44 398.53 3,440.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,	15,500.00	90.00	179.78	12,537.00	-2,939.44	396.57	2,940.94	0.00	0.00	
15,800.00 90.00 179.78 12,537.00 -3,239.44 397.75 3,240.94 0.00 0.00 0.00 15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,439.44 398.53 3,440.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.10 3,840.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,								0.00		0.00
15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,439.44 398.53 3,440.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.10 3,840.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,	15,700.00	90.00	179.78	12,537.00	-3,139.44	397.35	3,140.94	0.00	0.00	0.00
15,900.00 90.00 179.78 12,537.00 -3,339.44 398.14 3,340.94 0.00 0.00 0.00 0.00 16,000.00 90.00 179.78 12,537.00 -3,439.44 398.53 3,440.94 0.00 0.00 0.00 16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.10 3,840.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.7			179.78					0.00		0.00
16,100.00 90.00 179.78 12,537.00 -3,539.44 398.92 3,540.94 0.00 0.00 0.00 16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00				12,537.00		398.14	3,340.94	0.00	0.00	0.00
16,200.00 90.00 179.78 12,537.00 -3,639.44 399.32 3,640.94 0.00 0.00 0.00 16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00	16,000.00	90.00	179.78	12,537.00	-3,439.44	398.53	3,440.94	0.00	0.00	0.00
16,300.00 90.00 179.78 12,537.00 -3,739.43 399.71 3,740.94 0.00 0.00 0.00 16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00										
16,400.00 90.00 179.78 12,537.00 -3,839.43 400.10 3,840.94 0.00 0.00 0.00 16,500.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00										
16,500.00 90.00 179.78 12,537.00 -3,939.43 400.49 3,940.94 0.00 0.00 0.00 16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00										
16,600.00 90.00 179.78 12,537.00 -4,039.43 400.89 4,040.94 0.00 0.00 0.00										
	16,500.00	90.00	179.78	.12,537.00	-3,939.43	400.49	3,940.94	0.00	0.00	0.00
<u>16,700.00</u> 90.00 179.78 12,537.00 -4,139.43 401.28 4,140.94 0.00 0.00 0.00	16,600.00							0.00	0.00	
	16,700.00	90.00	179.78	12,537.00	-4,139.43	401.28	4,140.94	0.00	0.00	0.00



Database: Company: EDM 5000.1.13 Single User Db

Project: Site:

Eddy County, NM (NAD-27) Poker Lake Unit 18 TWR

Well: #162H Wellbore: ОН

Local Co-ordinate Reference: Well #162H

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

c	e	s	i	g	n		1	9.	 \$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u></u>	4	3	P	Ε	R	M	ľ	Ť	

Planned Survey		and a state of the same of	entropia de la composición de la compo	entre of the second	e gy nam sandi. Garan mila samsaya	andre and a second a	and the second of the second o		المولي والمنطقين المعلية الوالي المائد الما المواد الوالية المائد المائد المائد المائد المائد المائد المائد ال المنطقية المائد المائد المائد المائد المائد والميدي مواد المائد المائد المائد المائد المائد المائد المائد الم
Measured			Vertical			Vertical	Dogleg	Build	Turn
Depth (usft)	Inclination (°)	Azimuth (°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100usft)	Rate (°/100usft)	Rate (°/100usft)
16,800.00	90.00	, 179.78	12,537.00	-4,239.43	401.67	4,240.94	0.00	0.00	0.00
16,900.00	90.00	179.78	12,537.00	-4,339.43	402.06	4,340.94	0.00	0.00	0.00
17,000.00	90.00	179.78	12,537.00	-4,439.43	402.46	4,440.94	0.00	0.00	0.00
17,100.00	90.00	179.78	12,537.00	-4,539.43	402.85	4,540.94	0.00	0.00	0.00
17,200.00	90.00	179.78	12,537.00	-4,639.43	403.24	4,640.94	0.00	0.00	0.00
17,300.00	90.00	179.78	12,537.00	-4,739.43	403.63	4,740.94	0.00	0.00	0.00
17,400.00 17,500.00	90.00 90.00	179.78 179.78	12,537.00 12,537.00	-4,839.43 -4,939.43	404.03 404.42	4,840.94	0.00	0.00	0.00
						4,940.94	0.00	0.00	0.00
17,600.00 17,700.00	90.00 90.00	179.78	12,537.00	-5,039.42	404.81	5,040.94	0.00	0.00	0.00
17,700.00	90.00	179.78 179.78	12,537.00 12,537.00	-5,139.42 -5,239.42	405.20 405.60	5,140.94	0.00	0.00	0.00
17,800.00	90.00	179.78	12,537.00	-5,239.42 -5,339.42	405.60	5,240.94 5,340.94	0.00 0.00	0.00	0.00
18,000.00	90.00	179.78	12,537.00	-5,339.42 -5,439.42	406.38	5,340.94	0.00	0.00 0.00	0.00 0.00
				·					
18,100.00 18,200.00	90.00 90.00	179.78 179.78	12,537.00 12,537.00	-5,539.42 -5,639.42	406.77 407.17	5,540.94 5,640.94	0.00 0.00	0.00 0.00	0.00 0.00
18,300.00	90.00	179.78	12,537.00	-5,739.42 -5,739.42	407.17	5,740.94	0.00	0.00	0.00
18,400.00	90.00	179.78	12,537.00	-5,739.42 -5,839.42	407.95	5,840.94	0.00	0.00	0.00
18,500.00	90.00	179.78	12,537.00	-5,939.42	408.34	5,940.94	0.00	0.00	0.00
18,600.00	90.00	179.78	12,537.00	-6.039.42	408.74	6.040.94	0.00	0.00	
18,700.00	90.00	179.76	12,537.00	-6,039.42 -6,139.42	409.13	6,140.94	0.00	0.00	0.00 0.00
18,800.00	90.00	179.78	12,537.00	-6,239.42	409.13	6,240.94	0.00	0.00	0.00
18,900.00	90.00	179.78	12,537.00	-6,339.41	409.91	6,340.94	0.00	0.00	0.00
19,000.00	90.00	179.78	12,537.00	-6,439.41	410.31	6,440.94	0.00	0.00	0.00
19,100.00	90.00	179.78	12,537.00	-6,539.41					
19,100.00	90.00	179.78	12,537.00	-6,639.41 -6,639.41	410.70 411.09	6,540.94 6,640.94	0.00 0.00	0.00 0.00	0.00 0.00
19,300.00	90.00	179.78	12,537.00	-6,739.41	411.48	6,740.94	0.00	0.00	0.00
19,400.00	90.00	179.78	12,537.00	-6,839.41	411.88	6,840.94	0.00	0.00	0.00
19,500.00	90.00	179.78	12,537.00	-6,939.41	412.27	6,940.94	0.00	0.00	0.00
19,600.00	90.00	179.78	12,537.00	-7.039.41	412.66	7.040.94	0.00	0.00	0.00
19,700.00	90.00	179.78	12,537.00	-7,139.41	413.05	7,040.94	0.00	0.00	0.00
19,800.00	90.00	179.78	12,537.00	-7,133.41 -7,239.41	413.45	7,140.94	0.00	0.00	0.00
19,900.00	90.00	179.78	12,537.00	-7,339.41	413.84	7,340.94	0.00	0.00	0.00
20,000.00	90.00	179.78	12,537.00	-7,439.41	414.23	7,440.94	0.00	0.00	0.00
20,100.00	90.00	179.78	12,537.00	-7.539.41	414.62	7,540.94	0.00	. 0.00	0.00
20,200.00		179.78	12,537.00	-7.639.40	415.02	7,640.94	0.00	0.00	0.00
20,300.00	90.00	179.78	12,537.00	-7,739.40	415.41	7,740.94	0.00	0.00	0.00
20,400.00	90.00	179.78	12,537.00	-7,839.40	415.80	7,840.94	0.00	0.00	0.00
20,500.00	90.00	179.78	12,537.00	-7,939.40	416.19	7,940.94	0.00	0.00	0.00
20,600.00	90.00	179.78	12,537.00	-8,039.40	416.59	8,040.94	0.00	0.00	0.00
20,700.00	90.00	179.78	12,537.00	-8,139.40	416.98	8,140.94	0.00	0.00	0.00
20,800.00	90.00	179.78	12,537.00	-8,239.40	417.37	8,240.94	0.00	0.00	0.00
20,900.00	90.00	179.78	12,537.00	-8,339.40	417.76	8,340.94	0.00	0.00	0.00
21,000.00	90.00	179.78	12,537.00	-8,439.40	418.16	8,440.94	0.00	0.00	0.00
21,100.00	90.00	179.78	12,537.00	-8,539.40	418.55	8,540.94	0.00	0.00	0.00
21,200.00	90.00	179.78	12,537.00	-8,639.40	418.94	8,640.94	0.00	0.00	0.00
21,300.00	90.00	179.78	12,537.00	-8,739.40	419.33	8,740.94	0.00	0.00	0.00
21,400.00	90.00	179.78	12,537.00	-8,839.40	419.73	8,840.94	0.00	0.00	0.00
21,500.00	90.00	179.78	12,537.00	-8,939.39	420.12	8,940.94	0.00	0.00	0.00
21,600.00	90.00	. 179.78	12,537.00	-9,039.39	420.51	9,040.94	0.00	0.00	0.00
21,700.00	90.00	179.78	12,537.00	-9,139.39	420.90	9,140.94	0.00	0.00	0.00
21,800.00	90.00	179.78	12,537.00	-9,239.39	421.30	9,240.94	0.00	0.00	0.00
21,900.00	90.00	179.78	12,537.00	-9,339.39	421.69	9,340.94	0.00	0.00	0.00
22,000.00	90.00	179.78	12,537.00	-9,439.39	422.08	9,440.94	0.00	0.00	0.00
22,100.00	90.00	179.78	12,537.00	-9,539.39	422.47	9,540.94	0.00	0.00	0.00



Database: Company:

XTO Energy

Project: Site:

Eddy County, NM (NAD-27) Poker Lake Unit 18 TWR

Well: Wellbore:

Design:

22,792.32

22,800.00

22,900.00

22,922.32

#162H ОН

90.00

90.00

90.00

90.00

179.78

179.78

179.78

179.78

12,537.00

12,537.00

12,537.00

12,537.00

PERMIT

EDM 5000 1.13 Single User Db

TVD Reference:

Local Co-ordinate Reference: Well #162H

10,233.26

10,240.94

10,340.94

10,363.26

MD Reference: North Reference:

Survey Calculation Method:

425.19

425.22

425.61

425.70

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

0.00

Planned Survey				F					
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)
22,200.00	90.00	179.78	12,537.00	-9,639.39	422.86	9,640.94	0.00	0.00	0.00
22,300.00	. 90.00	179.78	12,537.00	-9,739.39	423.26	9,740.94	0.00	0.00	0.00
22,400.00	90.00	179.78	12,537.00	-9,839.39	423.65	9,840.94	0.00	0.00	0.00
22,500.00	90.00	179.78	12,537.00	-9,939.39	424.04	9,940.94	. 0.00	0.00	0.00
22,600.00	90.00	179.78	12,537.00	-10,039.39	424.43	10.040.94	0.00	0.00	0.00
22,700.00	90.00	179.78	12,537.00	-10,139.39	424.83	10,140.94	0.00	0.00	0.00

-10,231.70

-10,239.38

-10,339.38

-10,361.70

Design Targets	n salah salah sala Salah salah salah		ara eya e ya a . Garina eya eya	aji ilaya sa	er e	en e		en e	The second secon
	Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PLU18TWR#162H: SI - plan hits target center - Point	0.00 r	0.00	0.00	0.00	0.00	440,467.50	657,946.50	32.2099309	-103.8226557
PLU18TWR#162H: L1 - plan misses target ce - Point	0.00 nter by 0		,	-10,231.70 sft MD (1253	425.20 37.00 TVD, -1	430,235.80 0231.70 N, 425.	658,371.70 19 E)	32.1817994	-103.8214385
PLU18TWR#162H: F - plan hits target center - Point	0.00	0.00 1	2,537.00	-323.30	386.30	440,144.20	658,332.80	32.2090371	-103.8214118
PLU18TWR#162H: Pl - plan hits target center	0.00	0.00 1	2,537.00	-10,361.70	425.70	430,105.80	658,372.20	32.1814420	-103.8214389

- Point



Database: Company:

Well:

Wellbore:

Design:

EDM 5000.1.13 Single User Db

XTO Energy

Project: Eddy County, NM (NAD-27) Site:

Poker Lake Unit 18 TWR #162H OH PERMIT

Local Co-ordinate Reference:

TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

Well #162H

RKB = 22' @ 3517.00usft RKB = 22' @ 3517.00usft

Grid

Minimum Curvature

Formations								
Measured Depth (usft)	Vertical Depth (usft)	Name		-ithology		Dip (°)	Dip Direction (°)	
517.00	517.00	RSLR						
888.00	888.00	T/SALT						
4,012.00	4,012.00	B/SALT .						
4,260.00	4,260.00	DLWR						
6,755.00	6,755.00	BYCN						
8,130.74	8,127.00	BSPG_LM						
9,084.37	9,077.00	BSPG1						
9,556.16	9,547.00	BSPG2_LM						
9,867.34	9,857.00	BSPG2						
10,248.79	10,237.00	BSPG3_LM						
11,021.73	11,007.00	BSPG3						
11,423.26	11,407.00	WFMP						
11,463.41	11,447.00	WFMP_X						
11,538.70	11,522.00	WFMP_Y						
11,593.91	11,577.00	WFMP_A						
12,430.16	12,367.00							
12,883.84	12,537.00	LP						



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

PWD Data Report

APD ID: 10400042230

Submission Date: 05/31/2019

Operator Name: XTO PERMIAN OPERATING LLC

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Section 1 - General

Would you like to address long-term produced water disposal? NO

Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:

Section 3 - Unlined Pits

Would you like to utilize Unlined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD disturbance (acres):

PWD surface owner:

Unlined pit PWD on or off channel:

Unlined pit PWD discharge volume (bbl/day):

Unlined pit specifications:

Precipitated solids disposal:

Decribe precipitated solids disposal:

Precipitated solids disposal permit:

Unlined pit precipitated solids disposal schedule:

Unlined pit precipitated solids disposal schedule attachment:

Unlined pit reclamation description:

Unlined pit reclamation attachment:

Unlined pit Monitor description:

Unlined pit Monitor attachment:

Do you propose to put the produced water to beneficial use?

Beneficial use user confirmation:

Estimated depth of the shallowest aquifer (feet):

Does the produced water have an annual average Total Dissolved Solids (TDS) concentration equal to or less than that of the existing water to be protected?

TDS lab results:

Geologic and hydrologic evidence:

State authorization:

Unlined Produced Water Pit Estimated percolation:

Unlined pit: do you have a reclamation bond for the pit?

Operator Name: XTO PERMIAN OPERATING LLC Well Name: POKER LAKE UNIT 18 TWR Well Number: 162H Is the reclamation bond a rider under the BLM bond? Unlined pit bond number: Unlined pit bond amount: Additional bond information attachment: Section 4 - Injection Would you like to utilize Injection PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): Injection PWD discharge volume (bbl/day): Injection well mineral owner: Injection well type: Injection well number: Injection well name: Assigned injection well API number? Injection well API number: Injection well new surface disturbance (acres): Minerals protection information: Mineral protection attachment: **Underground Injection Control (UIC) Permit? UIC Permit attachment:** Section 5 - Surface Discharge Would you like to utilize Surface Discharge PWD options? NO **Produced Water Disposal (PWD) Location:** PWD surface owner: PWD disturbance (acres): Surface discharge PWD discharge volume (bbl/day): **Surface Discharge NPDES Permit? Surface Discharge NPDES Permit attachment:** Surface Discharge site facilities information: Surface discharge site facilities map: **Section 6 - Other** Would you like to utilize Other PWD options? NO **Produced Water Disposal (PWD) Location:**

PWD surface owner:

PWD disturbance (acres):

Other PWD discharge volume (bbl/day):

Well Name: POKER LAKE UNIT 18 TWR

Well Number: 162H

Other PWD type description:

Other PWD type attachment:

Have other regulatory requirements been met?

Other regulatory requirements attachment:



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

Bond Info Data Report

10/24/2019

APD ID: 10400042230

Submission Date: 05/31/2019

Highlighted data reflects the most

recent changes

Operator Name: XTO PERMIAN OPERATING LLC

Well Number: 162H

Show Final Text

Well Name: POKER LAKE UNIT 18 TWR
Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Bond Information

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: