Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-55077 10. Field and Pool, or Exploratory 3a. Address 3b. Phone No. (include area code) 4. Location of Well (Report location clearly and in accordance with any State requirements.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. SUPO must be filed with the appropriate Forest Service Office). 6. Such other site specific information and/or plans as may be requested by the 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)

Additional Operator Remarks

Location of Well

0. SHL: NWNE / 537 FNL / 1422 FEL / TWSP: 25S / RANGE: 31E / SECTION: 29 / LAT: 32.107089 / LONG: -103.796299 (TVD: 0 feet, MD: 0 feet) PPP: SENW / 2115 FNL / 2090 FWL / TWSP: 25S / RANGE: 31E / SECTION: 28 / LAT: 32.10275 / LONG: -103.784978 (TVD: 10902 feet, MD: 12800 feet) PPP: SENW / 2115 FNL / 2077 FWL / TWSP: 25S / RANGE: 31E / SECTION: 21 / LAT: 32.12041 / LONG: -103.784894 (TVD: 10902 feet, MD: 18100 feet) BHL: NESW / 2658 FNL / 2090 FWL / TWSP: 25S / RANGE: 31E / SECTION: 16 / LAT: 32.13043 / LONG: -103.784848 (TVD: 10902 feet, MD: 22776 feet)

BLM Point of Contact

Name: MARIAH HUGHES Title: Land Law Examiner Phone: (575) 234-5972 Email: mhughes@blm.gov <u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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<u>District IV</u> 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- 55076		² Pool Code	³ Pool Name				
		96654					
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number			
335921		POKER LA	AKE UNIT 29-20 BS 105H				
⁷ OGRID No.		8 O _l	perator Name	⁹ Elevation			
005380 XTO E			ENERGY, INC.	3,359'			
	1	0	C T .:	1			

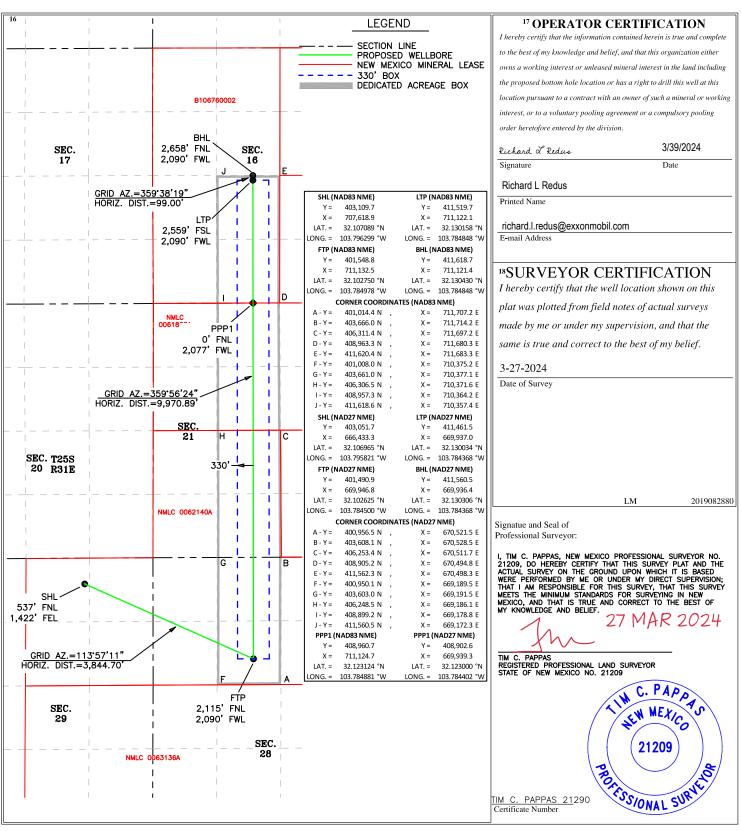
¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
В	29	25 S	31 E		537	NORTH	1,422	EAST	EDDY
	¹¹ Bottom Hole Location If Different From Surface								

¹¹ Bottom Hole Location II 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
K	16	25 S	31 E		2,658	NORTH	2,090	WEST	EDDY
12 Dedicated Acres	13 Joint or	r Infill 14	Consolidation	Code 15 Or	der No.				
320									

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.



State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description Effective May 25, 2021

I. Operator:XTO Perm	ian Op	erating LLC	OGRID:	_373075	Date: _5	5/24/2024_	
II. Type: ⊠ Original □ Amer	ndmen	t due to □ 19.15.27	7.9.D(6)(a) NMAC	□ 19.15.27.	9.D(6)(b) NM	AC □ Other.	
If Other, please describe:							
III. Well(s): Provide the follow be recompleted from a single w					of wells propo	osed to be drille	d or proposed to
Well Name	API	ULSTR	Footage	es	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Poker Lake Unit 28-21 BS 155H		B-28-25S-31E	549' FNL & 1915'	FEL	1848	9240	5544
Poker Lake Unit 29-20 BS 105H		B-29-25S-31E	537' FNL & 1422'	FEL	1848	9240	5544
Poker Lake Unit 29-20 BS 121H		C-29-25S-31E	531' FNL & 1515'	FWL	1848	9240	5544
Poker Lake Unit 29-20 BS 122H		C-29-25S-31E	531' FNL & 1545	FWL	1848	9240	5544
Poker Lake Unit 29-20 BS 126H	·	B-29-25S-31E	537' FNL & 1452'	FEL	1848	9240	5544
IV. Central Delivery Point Na	me:		Cowboy CDP		[See 19	.15.27.9(D)(1) N	NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Poker Lake Unit 28-21 BS 155H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 105H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 121H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 122H		TBD	TBD	TBD	TBD	TBD
Poker Lake Unit 29-20 BS 126H		TBD	TBD	TBD	TBD	TBD

VI. Separation Equipment: Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices:

☐ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices:

☐ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

⊠ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in
			~	

XI. Map. Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the
production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of
the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \square will \square will not have capacity to gather 100% of the anticipated na	tural gas
production volume from the well prior to the date of first production.	

XIII. Line	Pressure. Operator \square	does 🗆 does not an	ticipate that its existing	ng well(s) connect	ted to the same	segment,	or portion,	, of the
natural gas	gathering system(s) de	escribed above will c	ontinue to meet antici	ipated increases in	n line pressure o	aused by	the new w	ell(s).

П	Attach O	nerator's	nlan to	manage	production	in res	nonse to	the	increased	line	pressure
-	1 Ittacii O	perator s	pian io	manage	production	111 1 C3	ponse te	, uic	mercasea	11110	prossure

XIV. Confidentiality: Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information pro	vided in
Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific inf	ormation
for which confidentiality is asserted and the basis for such assertion.	

Section 3 - Certifications <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

□ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☑ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. ⊠ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. □ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- **(b)** power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

- 1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:
- (a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or
- (b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.
- 2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: Terra Sebastian
Printed Name: Terra Sebastian
Title: Regulatory Coordinator
E-mail Address: terra.b.sebastian@exxonmobil.com
Date: 5/24/2024
Phone: 432-999-3107
OIL CONSERVATION DIVISION
(Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



APD ID: 10400096996

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

Drilling Plan Data Report

Submission Date: 02/06/2024

Operator Name: XTO ENERGY INCORPORATED

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Well Type: OIL WELL Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
13482187	QUATERNARY	3359	0	0	ALLUVIUM	USEABLE WATER	N
13482188	RUSTLER	2522	837	837	ANHYDRITE, SANDSTONE	USEABLE WATER	N
13482189	SALADO	2143	1216	1216	SALT	POTASH	N
13482190	BASE OF SALT	-640	3999	3999	SALT	POTASH	N
13482191	DELAWARE	-850	4209	4209	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482195	BRUSHY CANYON	-3527	6886	6886	SANDSTONE, SHALE, SILTSTONE	NATURAL GAS, OIL, USEABLE WATER	N
13482192	BONE SPRING	-4807	8166	8166	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y
13482193	BONE SPRING 1ST	-5665	9024	9024	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y
13482194	BONE SPRING 2ND	-6238	9597	9597	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y
13482186	BONE SPRING 3RD	-6910	10269	10269	LIMESTONE, SANDSTONE	NATURAL GAS, OIL, USEABLE WATER	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 10902

Equipment: Wellhead will be installed by manufacturer's representative. Manufacturer will monitor welding process to ensure appropriate temperature of seal. Operator will test 9 5/8" casing.

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 a variance to be able to batch drill this well if necessary. In doing so, XTO will set casing and ensure that the well is cemented properly (unless approval is given for offline cementing) and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per Cactus recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and both intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells. A variance is requested to ONLY test broken pressure seals on the BOP equipment when

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

moving from wellhead to wellhead which is in compliance with API Standard 53. API standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken. Based on discussions with the BLM on February 27th 2020, we will request permission to ONLY retest broken pressure seals if the following conditions are met: 1. After a full BOP test is conducted on the first well on the pad 2. When skidding to drill an intermediate section that does not penetrate into the Wolfcamp.

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 surface casing, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the intermediate casing, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

Choke Diagram Attachment:

PLU_29_20_BS_5MCM_20240503093453.pdf

BOP Diagram Attachment:

9.625_7.625_5.5_3_String_Slimhole_HBE0000479_4_20240512173400.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	12.2 5	9.625	NEW	API	N	0	937	0	937	3359	2422	937	J-55		OTHER - BTC	6.72	1.27	DRY	16.8 1	DRY	16.8 1
2	INTERMED IATE	8.75	7.625	NEW	API	Υ	0	11382	0	9976	3358	-6617	11382	L-80		OTHER - FLUSH JOINT	1.83	1.94	DRY	1.85	DRY	1.85
3	PRODUCTI ON	6.75	5.5	NEW	API	Υ	0	22776	0	10902	3358	-7543	22776	P- 110		OTHER - SEMI- FLUSH	1.86	1.26	DRY	1.97	DRY	1.97

Casing Attachments

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Casing Attachments

Casing ID: 1

String

SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_105H_Csg_20240503094330.pdf

Casing ID: 2

String

INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_29_20_BS_105H_Csg_20240503094516.pdf

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_105H_Csg_20240503094522.pdf

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

PLU_29_20_BS_105H_Csg_20240503094629.pdf

Casing Design Assumptions and Worksheet(s):

PLU_29_20_BS_105H_Csg_20240503094637.pdf

Section 4 - Cement

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

String Type	Lead/Tail	Stage Tool Depth	Тор МD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	937	210	1.87	10.5	392.7	100	EconoCem- HLTRRC	NA
SURFACE	Tail		0	937	130	1.35	14.8	175.5	100	Class C	2% CaCl
INTERMEDIATE	Lead		0	6886	780	1.35	14.8	1053	100	Class C	NA
INTERMEDIATE	Tail		6886	1138 2	780	1.33	14.8	1037. 4	100	Class C	NA
PRODUCTION	Lead		1108 2	1158 2	53.8	2.69	11.5	5358	20	NeoCem	NA
PRODUCTION	Tail		1158 2	2277 6	800	1.51	13.2	1208	20	VersaCem	NA

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

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)	ЬН	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4209	1138 2	OTHER : BDE/OBM or	8.6	9.1							

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Top Depth	Bottom Depth	ed Mud Jype FW/Brine	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
937	4209	SALT SATURATED	10.5	11							
1138 2	2277 6	OIL-BASED MUD	10.5	11							
0	937	OTHER : Fresh Water / Native	8.4	8.9							

Section 6 - Test, Logging, Coring

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

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

Open hole logging will not be done on this well.

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

GAMMA RAY LOG, CEMENT BOND LOG, DIRECTIONAL SURVEY, MEASUREMENT WHILE DRILLING, MUD LOG/GEOLOGICAL LITHOLOGY LOG,

Coring operation description for the well:

No coring is planned for the well.

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 6716 A

Anticipated Surface Pressure: 4317

Anticipated Bottom Hole Temperature(F): 90

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

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

PLU_29_20_BS_H2S_Dia_20240109071057.pdf PLU_29_20_BS_H2S_Plan_20240109071057.pdf

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PLU_29_20_105H_DD_20240206123834.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

PLU_29_20_BS_105H_Cmt_20240503091250.pdf

Other Variance attachment:

PLU_29_20_BS_FH_20240109071504.pdf

PLU_29_20_BS_MBS_20240109071505.pdf

PLU_29_20_BS_OLCV_20240109071505.pdf

PLU_29_20_BS_Spud_20240109071503.pdf

BOP_Variance_new_Language_BOP_BTV_20240206123906.pdf

Released to Imaging: 5/30/2024 10:39:35 AM

ALL DIMENSIONS APPROXIMA

CACTUS WELLHEAD LLC

20" x 9-5/8" x 7-5/8" x 5-1/2" MBU-T-CFL-R-DBLO Wellhead With 11" 10M x 7-1/16" 15M CTH-DBLHPS Tubing Head And 9-5/8", 7-5/8" & 5-1/2" Pin Bottom Mandrel Casing Hangers

	XTO ENERGY INDELAWARE BASI	
DRAWN	VJK	31MAR2
APPRV		

DRAWING NO. HBE0000479

FORMATION CONTAINED HEREIN IS THE PROPERTY OF CACTUS WELLHEAD, LLC. REPRODUCTION, SCLOSURE, OR USE THEREOF IS PERMISSIBLE ONLY AS PROVIDED BY CONTRACT OR AS EXPRESSLY SUTHORIZED BY CACTUS WELLHEAD, LLC.

Casing Assumptions

Casing	g Design									
	Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
	12.25	0' – 937'	9.625	40	J-55	втс	New	1.27	6.72	16.81
	8.75	0' – 4000'	7.625	29.7	RY P-110	Flush Joint	New	2.66	2.71	1.65
	8.75	4000' – 11381.72'	7.625	29.7	HC L-80	Flush Joint	New	1.94	1.83	1.85
	6.75	0' - 11281.72'	5.5	20	RY P-110	Semi-Premium	New	1.26	1.80	1.97
	6.75	11281.72' - 22776.12'	5.5	20	RY P-110	Semi-Flush	New	1.26	1.86	1.97

Cement Variance Request

XTO requests to pump a two stage cement job on the intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brushy Canyon (6886') and the second stage performed as a bradenhead squeeze with planned cement from the Brushy Canyon to surface. If cement is not visually confirmed to circulate to surface, the final cement top after the second stage job will be verified by Echo-meter. If necessary, a top out consisting of 1,500 sack of Class C cement + 3% Salt + 1% PreMag-M + 6% Bentonite Gel (2.30 yld, 12.91 ppg) will be executed as a contingency. If cement is still unable to circulate to surface, another Echo-meter run will be performed for cement top verification.

XTO will include the Echo-meter verified fluid top and the volume of displacement fluid above the cement slurry in the annulus in all post-drill sundries on wells utilizing this cement program.

XTO will report to the BLM the volume of fluid (limited to 5 bbls) used to flush intermediate casing valves following backside cementing procedures.

XTO requests to pump an Optional Lead if well conditions dictate in an attempt to bring cement to surface on the first stage. If cement is brought to surface, the BLM will be notified and the second stage bradenhead squeeze and subsequent TOC verification will be negated.

In the event cement is not circulated to surface on the first stage, whether intentionally or unintentionally, XTO requests the option to conduct the bradenhead squeeze and TOC verification offline as per standard approval from BLM when unplanned remediation is needed and batch drilling is approved. In the event the bradenhead is conducted, we will ensure first stage cement job is cemented properly and the well is static with floats holding and no pressure on the csg annulus as with all other casing strings where batch drilling operations occur before moving off the rig. The TA cap will also be installed per GE procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

XTO respectfully requests approval to utilize a spudder rig to pre-set surface casing.

Description of Operations:

- 1. Spudder rig will move in to drill the surface hole and pre-set surface casing on the well.
 - a. After drilling the surface hole section, the spudder rig will run casing and cement following all of the applicable rules and regulations (OnShore Order 2, all COAs and NMOCD regulations).
 - b. The spudder rig will utilize fresh water-based mud to drill the surface hole to TD. Solids control will be handled entirely on a closed loop basis. No earth pits will be used.
- 2. The wellhead will be installed and tested as soon as the surface casing is cut off and WOC time has been reached.
- 3. A blind flange at the same pressure rating as the wellhead will be installed to seal the wellbore. Pressure will be monitored with needle valves installed on two wing valves.
 - a. A means for intervention will be maintained while the drilling rig is not over the well.
- 4. Spudder rig operations are expected to take 2-3 days per well on the pad.
- 5. The BLM will be contacted and notified 24 hours prior to commencing spudder rig operations.
- 6. Drilling Operations will begin with a larger rig and a BOP stack equal to or greater than the pressure rating that was permitted will be nippled up and tested on the wellhead before drilling operations resume on each well.
 - a. The larger rig will move back onto the location within 180 days from the point at which the wells are secured and the spudder rig is moved off location.
 - b. The BLM will be notified 24 hours before the larger rig moves back on the pre-set locations
- 7. XTO will have supervision on the rig to ensure compliance with all BLM and NMOCD regulations and to oversee operations.
- 8. Once the rig is removed, XTO will secure the wellhead area by placing a guard rail around the cellar area.

XTO Permian Operating, LLC Offline Cementing Variance Request

XTO requests the option to cement the surface and intermediate casing strings offline as a prudent batch drilling efficiency of acreage development.

1. Cement Program

No changes to the cement program will take place for offline cementing.

2. Offline Cementing Procedure

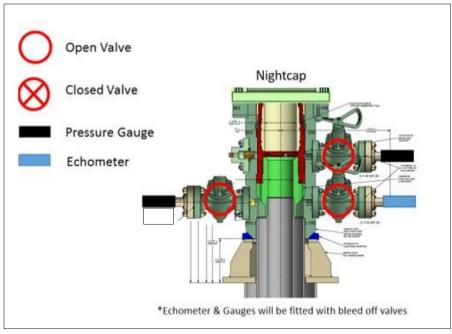
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 1. Run casing as per normal operations. While running casing, conduct negative pressure test and confirm integrity of the float equipment (float collar and shoe)
- 2. Land casing with mandrel
- 3. Fill pipe with kill weight fluid, do not circulate through floats and confirm well is static
- 4. Set annular packoff shown below and pressure test to confirm integrity of the seal. Pressure ratings of wellhead components and valves is 5,000 psi.
- 5. After confirmation of both annular barriers and internal barriers, nipple down BOP and install cap flange.
 - a. If any barrier fails to test, the BOP stack will not be nippled down until after the cement job is completed with cement 500ft above the highest formation capable of flow with kill weight mud above or after it has achieved 50-psi compressive strength if kill weight fluid cannot be verified.



Annular packoff with both external and internal seals

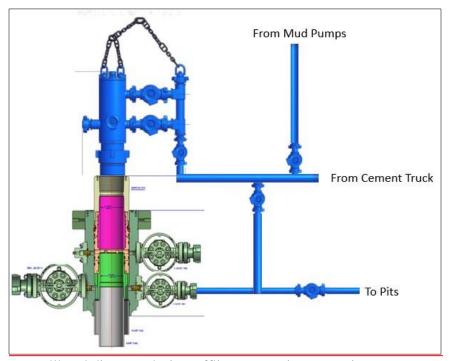
XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during skidding operations

- 6. Skid rig to next well on pad.
- 7. Confirm well is static before removing cap flange, flange will not be removed and offline cementing operations will not commence until well is under control. If well is not static, casing outlet valves will provide access to both the casing ID and annulus. Rig or third party pump truck will kill well prior to cementing or nippling up for further remediation.
 - a. Well Control Plan
 - i. The Drillers Method will be the primary well control method to regain control of the wellbore prior to cementing, if wellbore conditions do not permit the drillers method other methods of well control may be used
 - ii. Rig pumps or a 3rd party pump will be tied into the upper casing valve to pump down the casing ID
 - iii. A high pressure return line will be rigged up to lower casing valve and run to choke manifold to control annular pressure
 - iv. Once influx is circulated out of the hole, kill weight mud will be circulated
 - v. Well will be confirmed static
 - vi. Once confirmed static, cap flange will be removed to allow for offline cementing operations to commence
- 8. Install offline cement tool
- 9. Rig up cement equipment

XTO Permian Operating, LLC Offline Cementing Variance Request



Wellhead diagram during offline cementing operations

- 10. Circulate bottoms up with cement truck
 - a. If gas is present on bottoms up, well will be shut in and returns rerouted through gas buster to handle entrained gas
 - b. Max anticipated time before circulating with cement truck is 6 hrs
- 11. Perform cement job taking returns from the annulus wellhead valve
- 12. Confirm well is static and floats are holding after cement job
- 13. Remove cement equipment, offline cement tools and install night cap with pressure gauge for monitoring.



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: Customer Ref. :

Invoice No. :

AUSTIN DISTRIBUTING

201709

PENDING

Test Date:

Hose Senal No.:

Created By:

6/8/2014

D-060814-1

NORMA

Product Description:

FD3.042.0R41/16.5KFLGE/E LE

End Filting 1:

Gates Part No. :

Working Pressure:

4 1/16 in.5K FLG 4774-6001

5,000 PSI

End Fitting 2:

Assembly Code:

Test Pressure:

4 1/16 in.5K FLG

L33090011513D-060814-1

7,500 PSI

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality:

Date:

Signature:

QUALITY

6/8/2014

Technical Supervisor:

Date:

Signature:

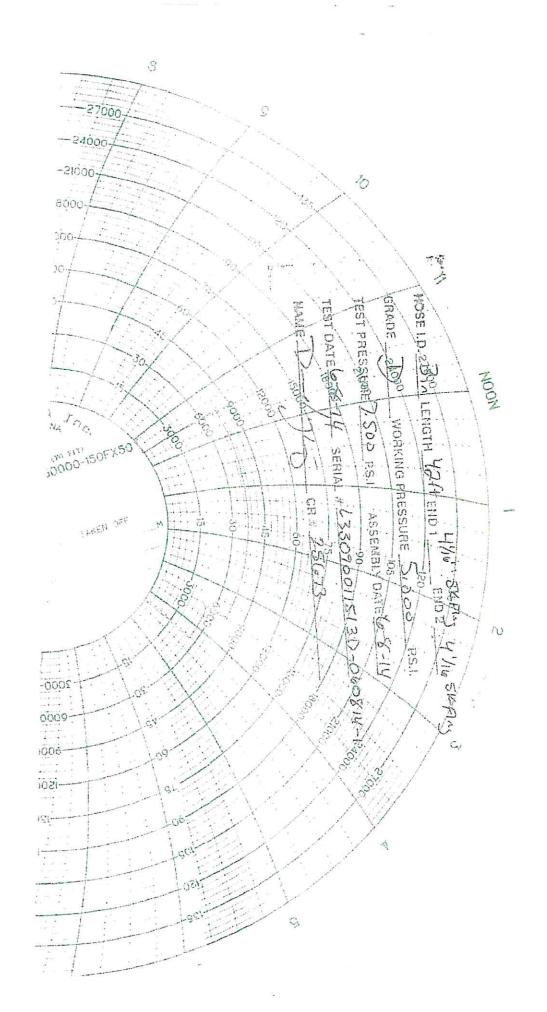
PRODUCTION

6/8/2014

Form PTC - 01 Rev.0 2

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<u>Subject:</u> Request for a Variance Allowing break Testing of the Blowout Preventer Equipment (BOPE)

XTO Energy requests a variance to ONLY test broken pressure seals on the BOPE and function test BOP when skidding a drilling rig between multiple wells on a pad.

Background

Onshore Oil and Gas Order CFR Title 43 Part 3170, Drilling Operations, Sections III.A.2.i.iv.B states that the BOP test must be performed whenever any seal subject to test pressure is broken. The current interpretation of the Bureau of Land Management (BLM) requires a complete BOP test and not just a test of the affected component. CFR Title 43 Part 3170 states, "Some situation may exist either on a well-by-well basis or field-wide basis whereby it is commonly accepted practice to vary a particular minimum standard(s) established in this order. This situation can be resolved by requesting a variance...". XTO Energy feels the break testing the BOPE is such a situation. Therefore, as per CFR Title 43 Part 3170, XTO Energy submits this request for the variance.

Supporting Documentation

CFR Title 43 Part 3170 became effective on December 19, 1988 and has remained the standard for regulating BLM onshore drilling operations for over 30 years. During this time there have been significant changes in drilling technology. BLM continues to use the variance request process to allow for the use of modern technology and acceptable engineering practices that have arisen since CFR Title 43 Part 3170 was originally released. The XTO Energy drilling rig fleet has many modern upgrades that allow the intact BOP stack to be moved between well slots on a multi-well pad, as well as, wellhead designs that incorporate quick connects facilitating release of the BOP from the wellhead without breaking any BOP stack components apart. These technologies have been used extensively offshore, and other regulators, API, and many operators around the world have endorsed break testing as safe and reliable.



Figure 1: Winch System attached to BOP Stack



Figure 2: BOP Winch System

American Petroleum Institute (API) standards, specification and recommended practices are considered the industry standard and are consistently utilized and referenced by the industry. CFR Title 43 Part 3170recognizes API recommended Practices (RP) 53 in its original development. API Standard 53, *Well Control Equipment Systems for Drilling Wells* (Fifth Edition, December 2018, Annex C, Table C.4) recognizes break testing as an acceptable practice. Specifically, API Standard 53, Section 5.3.7.1 states "A pressure test of the pressure containing component shall be performed following the disconnection or repair, limited to the affected component." See Table C.4 below for reference.

	Pressure Test—Low	Pressure Test—High Pressure <mark>∞</mark>							
Component to be Pressure Tested	Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer, or Ring Gasket						
Annular preventer ^b	250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.						
Fixed pipe, variable bore, blind, and BSR preventers ^{bd}	250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP						
Choke and kill line and BOP side outlet valves below ram preventers (both sides)	250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP						
Choke manifold—upstream of chokes ^e	250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP						
Choke manifold—downstream of chokese	250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or M whichever is lower	MASP for the well program,						
Kelly, kelly valves, drill pipe safety valves, IBOPs	250 to 350 (1.72 to 2.41)	MASP for the well program							
Annular(s) and VBR(s) shall be pre For pad drilling operations, moving pressure-controlling connections	during the evaluation period. The pssure tested on the largest and sm from one wellhead to another within when the integrity of a pressure se	oressure shall not decrease below the allest OD drill pipe to be used in well n the 21 days, pressure testing is req	program. juired for pressure-containing ar						

The Bureau of Safety and Environmental Enforcement (BSEE), Department of Interior, has also utilized the API standards, specification and best practices in the development of its offshore oil and gas regulations and incorporates them by reference within its regulations.

Break testing has been approved by the BLM in the past with other operators based on the detailed information provided in this document.

XTO Energy feels break testing and our current procedures meet the intent of CFR Title 43 Part 317 Oand often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of CFR Title 43 Part 3170 (Every 21 days). In addition to function testing the annular, pipe rams and blind rams after

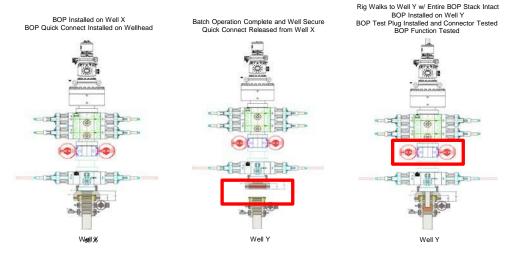
each BOP nipple up, XTO Energy performs a choke drill with the rig crew prior to drilling out every casing shoe. This is additional training for the rig crew that exceeds the requirements of the CFR Title 43 Part 3170.

Procedures

- XTO Energy will use this document for our break testing plan for New Mexico Delaware basin.
 The summary below will be referenced in the APD or Sundry Notice and receive approval prior
 to implementing this variance.
- 2. XTO Energy will perform BOP break testing on multi-wells pads where multiple intermediate sections can be drilled and cased within the 21-day BOP test window.
 - a. A full BOP test will be conducted on the first well on the pad.
 - b. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
 - i. Our Lower WC targets set the intermediate casing shoe no deeper than the Wolfcamp B.
 - ii. Our Upper WC targets set the intermediate casing shoe shallower than the Wolfcamp B.
 - c. A Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
 - d. A full BOP test will be required prior to drilling any production hole.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

- 11. For a multi-well pad the same two breaks on the BOP would be made and on the next wells and steps 4 through 10 would be repeated.
- 12. A second break test would only be done if the intermediate hole section being drilled could not be completed within the 21 day BOP test window.

Note: Picture below highlights BOP components that will be tested during batch operations



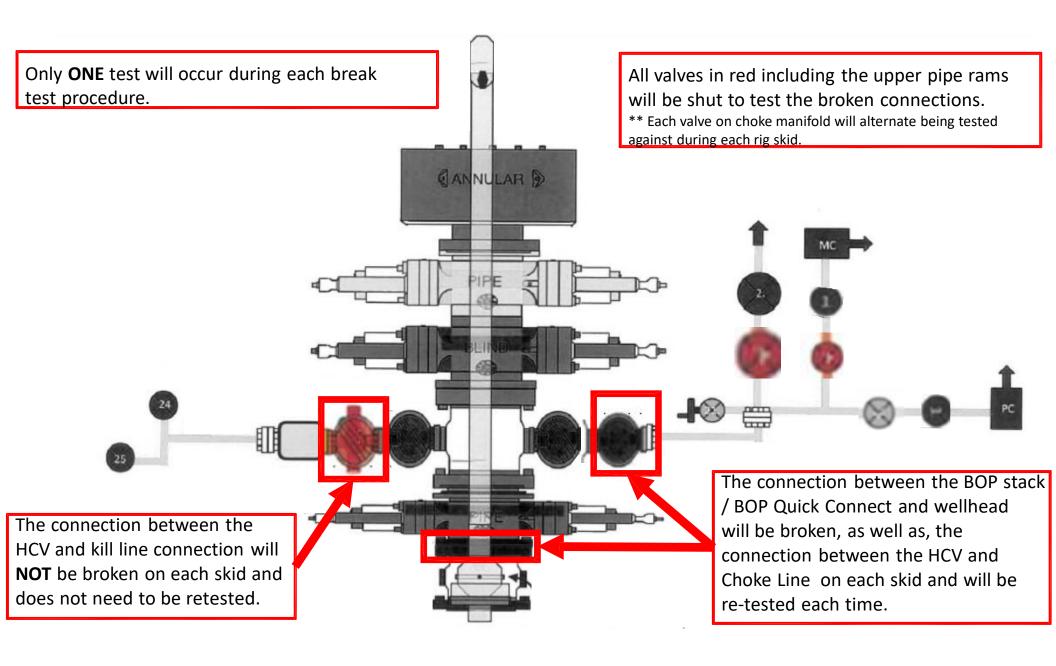
Summary

A variance is requested to **ONLY** test broken pressure seals on the BOP equipment when moving from wellhead to wellhead which is in compliance with API Standard 53. API Standard 53 states, that for pad drilling operation, moving from one wellhead to another within 21 days, pressure testing is required for pressure-containing and pressure-controlling connections when the integrity of a pressure seal is broken.

The BOP will be secured by a hydraulic carrier or cradle. The BLM will be contacted if a Well Control event occurs prior to the commencement of a BOPE Break Testing operation.

Based on discussions with the BLM on February 27th 2020 and the supporting documentation submitted to the BLM, we will request permission to ONLY retest broken pressure seals if the following conditions are met:

- 1. After a full BOP test is conducted on the first well on the pad.
- 2. The first intermediate hole section drilled on the pad will be the deepest. All of the remaining hole sections will be the same depth or shallower.
- 3. Full BOP test will be required if the intermediate hole section being drilled has a MASP over 5M.
- 4. Full BOP test will be required prior to drilling the production hole.



Well Plan Report - PLU 29-20 105H

Measured Depth: 22776.12 ft Site: B

TVD RKB: 10902.00 ft **Slot**: PLU 29-20 105H

Location

New Mexico East -Cartographic Reference System: **NAD 27** Northing: 403051.70 ft Easting: 666433.30 ft RKB: 3391.00 ft **Ground Level:** 3359.00 ft North Reference: Grid Convergence Angle: 0.29 Deg

Plan Sections PLU 29-20 105H

Measured			TVD			Build	Turn	Dogleg
Depth	Inclination	Azimuth	RKB	Y Offset	X Offset	Rate	Rate	Rate
(ft)	(Deg)	(Deg)	(ft)	(ft)	(ft)	(Deg/100ft)	(Deg/100ft)	(Deg/100ft) Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00
3176.71	41.53	122.94	2999.55	-391.69	604.52	2.00	0.00	2.00
7319.21	41.53	122.94	6100.45	-1885.30	2909.68	0.00	0.00	0.00
9395.92	0.00	0.00	8000.00	-2277.00	3514.20	-2.00	0.00	2.00
11581.72	0.00	0.00	10185.80	-2277.00	3514.20	0.00	0.00	0.00
12706.72	90.00	359.94	10902.00	-1560.80	3513.50	8.00	0.00	8.00 FTP 3
22677.33	90.00	359.94	10902.00	8409.80	3503.70	0.00	0.00	0.00 LTP 3
22776.12	90.00	359.94	10902.00	8508.59	3503.60	0.00	0.00	0.00 BHL 3

Position Uncertainty PLU 29-20 105H

Measured TVD Highside Lateral Vertical Magnitude Semi-major Semi-minor Tool

Depth	Inclination	Azimuth	RKB	Error	Bias	Error	Bias	Error	Bias	of Bias	Error	Error	Azimuth	Used
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(°)	
0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	MWD+IFR1+MS
100.000	0.000	0.000	100.000	0.700	0.000	0.350	0.000	2.300	0.000	0.000	0.751	0.220	112.264	MWD+IFR1+MS
200.000	0.000	0.000	200.000	1.112	0.000	0.861	0.000	2.310	0.000	0.000	1.259	0.627	122.711	MWD+IFR1+MS
300.000	0.000	0.000	300.000	1.497	0.000	1.271	0.000	2.325	0.000	0.000	1.698	0.986	125.469	MWD+IFR1+MS
400.000	0.000	0.000	400.000	1.871	0.000	1.658	0.000	2.347	0.000	0.000	2.108	1.344	126.713	MWD+IFR1+MS
500.000	0.000	0.000	500.000	2.240	0.000	2.034	0.000	2.374	0.000	0.000	2.503	1.701	127.419	MWD+IFR1+MS
600.000	0.000	0.000	600.000	2.607	0.000	2.405	0.000	2.406	0.000	0.000	2.888	2.059	127.873	MWD+IFR1+MS
700.000	0.000	0.000	700.000	2.971	0.000	2.773	0.000	2.444	0.000	0.000	3.267	2.417	128.190	MWD+IFR1+MS
800.000	0.000	0.000	800.000	3.334	0.000	3.138	0.000	2.485	0.000	0.000	3.642	2.775	128.423	MWD+IFR1+MS
900.000	0.000	0.000	900.000	3.696	0.000	3.502	0.000	2.531	0.000	0.000	4.014	3.133	128.602	MWD+IFR1+MS
1000.000	0.000	0.000	1000.000	4.058	0.000	3.865	0.000	2.581	0.000	0.000	4.384	3.491	128.744	MWD+IFR1+MS
1100.000	0.000	0.000	1100.000	4.419	0.000	4.228	0.000	2.634	0.000	0.000	4.752	3.849	128.859	MWD+IFR1+MS
1200.000	2.000	122.941	1199.980	4.382	0.000	5.032	-0.000	2.691	0.000	0.000	5.044	4.370	131.009	MWD+IFR1+MS
1300.000	4.000	122.941	1299.838	5.241	0.000	5.351	-0.000	2.751	0.000	0.000	5.374	5.224	99.573	MWD+IFR1+MS
1400.000	6.000	122.941	1399.452	5.993	0.000	5.676	-0.000	2.816	0.000	0.000	6.081	5.599	56.151	MWD+IFR1+MS
1500.000	8.000	122.941	1498.702	6.673	0.000	6.007	-0.000	2.889	0.000	0.000	6.790	5.905	52.191	MWD+IFR1+MS
1600.000	10.000	122.941	1597.465	7.299	0.000	6.345	-0.000	2.972	0.000	0.000	7.449	6.217	50.945	MWD+IFR1+MS
1700.000	12.000	122.941	1695.623	7.884	0.000	6.689	-0.000	3.067	0.000	0.000	8.067	6.537	50.385	MWD+IFR1+MS
1800.000	14.000	122.941	1793.055	8.436	0.000	7.040	-0.000	3.175	0.000	0.000	8.652	6.866	50.110	MWD+IFR1+MS
1900.000	16.000	122.941	1889.643	8.959	0.000	7.400	-0.000	3.298	0.000	0.000	9.211	7.206	49.990	MWD+IFR1+MS
2000.000	18.000	122.941	1985.268	9.458	0.000	7.770	-0.000	3.438	0.000	0.000	9.748	7.557	49.974	MWD+IFR1+MS
2100.000	20.000	122.941	2079.816	9.937	0.000	8.150	-0.000	3.596	0.000	0.000	10.265	7.921	50.040	MWD+IFR1+MS
2200.000	22.000	122.941	2173.169	10.398	0.000	8.544	-0.000	3.772	0.000	0.000	10.766	8.298	50.179	MWD+IFR1+MS
2300.000	24.000	122.941	2265.215	10.844	0.000	8.951	-0.000	3.969	0.000	0.000	11.252	8.691	50.393	MWD+IFR1+MS
2400.000	26.000	122.941	2355.841	11.275	0.000	9.375	-0.000	4.187	0.000	0.000	11.726	9.100	50.688	MWD+IFR1+MS
2500.000	28.000	122.941	2444.937	11.694	0.000	9.817	-0.000	4.426	0.000	0.000	12.189	9.527	51.078	MWD+IFR1+MS
2600.000	30.000	122.941	2532.394	12.103	0.000	10.278	-0.000	4.687	0.000	0.000	12.643	9.973	51.581	MWD+IFR1+MS
2700.000	32.000	122.941	2618.107	12.502	0.000	10.760	-0.000	4.970	0.000	0.000	13.087	10.440	52.224	MWD+IFR1+MS
2800.000	34.000	122.941	2701.970	12.893	0.000	11.266	-0.000	5.276	0.000	0.000	13.525	10.927	53.046	MWD+IFR1+MS
2900.000	36.000	122.941	2783.881	13.276	0.000	11.796	-0.000	5.605	0.000	0.000	13.957	11.437	54.099	MWD+IFR1+MS
3000.000	38.000	122.941	2863.740	13.653	0.000	12.352	-0.000	5.957	0.000	0.000	14.384	11.969	55.456	MWD+IFR1+MS

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3100.000	40.000	122.941	2941.451	14.023	0.000	12.936	-0.000	6.332	0.000	0.000	14.809	12.521	57.223	MWD+IFR1+MS
3176.714	41.534	122.941	2999.550	14.246	0.000	13.398	-0.000	6.580	0.000	0.000	15.101	12.956	59.050	MWD+IFR1+MS
3200.000	41.534	122.941	3016.981	14.333	0.000	13.539	-0.000	6.633	0.000	0.000	15.177	13.089	59.729	MWD+IFR1+MS
3300.000	41.534	122.941	3091.837	14.715	0.000	14.164	-0.000	6.888	0.000	0.000	15.512	13.663	63.499	MWD+IFR1+MS
3400.000	41.534	122.941	3166.693	15.118	0.000	14.811	-0.000	7.164	0.000	0.000	15.889	14.229	68.502	MWD+IFR1+MS
3500.000	41.534	122.941	3241.549	15.533	0.000	15.471	-0.000	7.451	0.000	0.000	16.306	14.774	74.648	MWD+IFR1+MS
3600.000	41.534	122.941	3316.405	15.959	0.000	16.142	-0.000	7.748	0.000	0.000	16.773	15.287	81.601	MWD+IFR1+MS
3700.000	41.534	122.941	3391.261	16.394	0.000	16.822	-0.000	8.054	0.000	0.000	17.294	15.762	88.609	MWD+IFR1+MS
3800.000	41.534	122.941	3466.116	16.840	0.000	17.511	-0.000	8.368	0.000	0.000	17.865	16.202	94.891	MWD+IFR1+MS
3900.000	41.534	122.941	3540.972	17.293	0.000	18.207	-0.000	8.690	0.000	0.000	18.476	16.614	100.057	MWD+IFR1+MS
4000.000	41.534	122.941	3615.828	17.755	0.000	18.910	-0.000	9.017	0.000	0.000	19.118	17.007	104.120	MWD+IFR1+MS
4100.000	41.534	122.941	3690.684	18.224	0.000	19.619	-0.000	9.351	0.000	0.000	19.783	17.389	107.273	MWD+IFR1+MS
4200.000	41.534	122.941	3765.540	18.700	0.000	20.333	-0.000	9.689	0.000	0.000	20.465	17.764	109.730	MWD+IFR1+MS
4300.000	41.534	122.941	3840.396	19.182	0.000	21.052	-0.000	10.032	0.000	0.000	21.159	18.136	111.668	MWD+IFR1+MS
4400.000	41.534	122.941	3915.252	19.670	0.000	21.775	-0.000	10.380	0.000	0.000	21.864	18.506	113.220	MWD+IFR1+MS
4500.000	41.534	122.941	3990.108	20.163	0.000	22.502	-0.000	10.731	0.000	0.000	22.576	18.876	114.482	MWD+IFR1+MS
4600.000	41.534	122.941	4064.964	20.662	0.000	23.233	-0.000	11.086	0.000	0.000	23.295	19.248	115.522	MWD+IFR1+MS
4700.000	41.534	122.941	4139.820	21.165	0.000	23.967	-0.000	11.444	0.000	0.000	24.019	19.620	116.392	MWD+IFR1+MS
4800.000	41.534	122.941	4214.676	21.672	0.000	24.704	-0.000	11.804	0.000	0.000	24.748	19.995	117.127	MWD+IFR1+MS
4900.000	41.534	122.941	4289.532	22.184	0.000	25.443	-0.000	12.168	0.000	0.000	25.481	20.371	117.756	MWD+IFR1+MS
5000.000	41.534	122.941	4364.388	22.699	0.000	26.185	-0.000	12.534	0.000	0.000	26.217	20.749	118.298	MWD+IFR1+MS
5100.000	41.534	122.941	4439.243	23.218	0.000	26.929	-0.000	12.902	0.000	0.000	26.957	21.130	118.769	MWD+IFR1+MS
5200.000	41.534	122.941	4514.099	23.740	0.000	27.676	-0.000	13.272	0.000	0.000	27.699	21.512	119.183	MWD+IFR1+MS
5300.000	41.534	122.941	4588.955	24.265	0.000	28.424	-0.000	13.645	0.000	0.000	28.444	21.897	119.548	MWD+IFR1+MS
5400.000	41.534	122.941	4663.811	24.793	0.000	29.174	-0.000	14.019	0.000	0.000	29.191	22.284	119.872	MWD+IFR1+MS
5500.000	41.534	122.941	4738.667	25.324	0.000	29.925	-0.000	14.395	0.000	0.000	29.940	22.673	120.162	MWD+IFR1+MS
5600.000	41.534	122.941	4813.523	25.857	0.000	30.679	-0.000	14.772	0.000	0.000	30.691	23.064	120.422	MWD+IFR1+MS
5700.000	41.534	122.941	4888.379	26.392	0.000	31.433	-0.000	15.151	0.000	0.000	31.444	23.457	120.657	MWD+IFR1+MS
5800.000	41.534	122.941	4963.235	26.930	0.000	32.189	-0.000	15.532	0.000	0.000	32.198	23.851	120.869	MWD+IFR1+MS
5900.000	41.534	122.941	5038.091	27.470	0.000	32.946	-0.000	15.913	0.000	0.000	32.954	24.248	121.063	MWD+IFR1+MS
6000.000	41.534	122.941	5112.947	28.012	0.000	33.704	-0.000	16.296	0.000	0.000	33.711	24.647	121.240	MWD+IFR1+MS
6100.000	41.534	122.941	5187.803	28.556	0.000	34.463	-0.000	16.680	0.000	0.000	34.469	25.047	121.401	MWD+IFR1+MS
6200.000	41.534	122.941	5262.659	29.101	0.000	35.223	-0.000	17.066	0.000	0.000	35.228	25.449	121.550	MWD+IFR1+MS

6400.000															
	6300.000	41.534	122.941	5337.515	29.649	0.000	35.984	-0.000	17.452	0.000	0.000	35.988	25.852	121.687	MWD+IFR1+MS
	6400.000	41.534	122.941	5412.370	30.197	0.000	36.746	-0.000	17.839	0.000	0.000	36.750	26.258	121.814	MWD+IFR1+MS
6700,000	6500.000	41.534	122.941	5487.226	30.748	0.000	37.509	-0.000	18.228	0.000	0.000	37.512	26.664	121.931	MWD+IFR1+MS
6800,000	6600.000	41.534	122.941	5562.082	31.299	0.000	38.272	-0.000	18.617	0.000	0.000	38.275	27.072	122.040	MWD+IFR1+MS
February	6700.000	41.534	122.941	5636.938	31.852	0.000	39.036	-0.000	19.007	0.000	0.000	39.038	27.482	122.142	MWD+IFR1+MS
7000,000	6800.000	41.534	122.941	5711.794	32.407	0.000	39.801	-0.000	19.398	0.000	0.000	39.803	27.893	122.237	MWD+IFR1+MS
T100.000	6900.000	41.534	122.941	5786.650	32.962	0.000	40.567	-0.000	19.790	0.000	0.000	40.568	28.305	122.325	MWD+IFR1+MS
7200.000 41.534 122.941 6011.218 34.635 0.000 22.971 0.000 0.000 42.867 29.549 122.559 MWD+IFR1+MS 7300.000 41.534 122.941 6086.074 35.195 0.000 43.635 0.000 0.000 43.635 29.967 122.628 MWD+IFR1+MS 7419.000 39.918 122.941 610.450 35.302 0.000 43.781 0.000 0.000 43.781 30.046 122.648 MWD+IFR1+MS 7500.000 37.918 122.941 6161.677 35.866 0.00 45.120 -0.000 21.759 0.000 0.000 44.390 30.388 122.699 MWD+IFR1+MS 7600.000 37.918 122.941 6319.422 37.226 0.000 45.921 0.000 45.821 31.326 122.728 MWD+IFR1+MS 7600.000 31.918 122.941 6485.355 38.370 0.000 42.925 0.000 46.492 31.805 122.748 MWD+IFR1+MS	7000.000	41.534	122.941	5861.506	33.519	0.000	41.333	-0.000	20.183	0.000	0.000	41.334	28.719	122.408	MWD+IFR1+MS
7300.000 41,534 122,941 6086,074 35.195 0.000 43,635 0.000 43,635 29,967 122,628 MWDHFR1+MS 7319,206 41,534 122,941 610,450 35.302 0.000 43,781 0.000 43,781 30,046 122,644 MWDHFR1+MS 7400,000 39,918 122,941 6161,677 35,866 0.000 41,539 0.000 0.000 44,390 30,388 122,699 MWDHFR1+MS 7600,000 37,918 122,941 6319,422 37,226 0.000 45,821 -0.000 22,559 0.00 0.000 45,821 31,326 122,738 MWDHFR1+MS 7600,000 31,918 122,941 6401,415 37,827 0.000 42,929 0.000 0.000 45,821 31,326 122,738 MWDHFR1+MS 7800,000 31,918 122,941 6645,355 38,370 0.000 47,732 0.000 47,132 32,265 122,756 MWDHFR1+MS 7900,000	7100.000	41.534	122.941	5936.362	34.077	0.000	42.100	-0.000	20.577	0.000	0.000	42.100	29.133	122.486	MWD+IFR1+MS
7319.206	7200.000	41.534	122.941	6011.218	34.635	0.000	42.867	-0.000	20.971	0.000	0.000	42.867	29.549	122.559	MWD+IFR1+MS
7400.000 39.918 122.941 6161.677 35.866 0.000 44.389 -0.000 21.759 0.000 0.000 44.390 30.388 122.699 MWD+IFR1+MS 7500.000 37.918 122.941 6239.477 36.567 0.000 45.120 -0.000 22.167 0.000 0.000 45.120 30.850 122.725 MWD+IFR1+MS 7600.000 35.918 122.941 6401.415 37.827 0.000 46.492 -0.000 22.955 0.000 0.000 45.821 31.326 122.738 MWD+IFR1+MS 7800.000 31.918 122.941 6401.415 37.827 0.000 46.492 0.000 22.955 0.000 0.000 47.132 32.285 122.755 MWD+IFR1+MS 7900.000 29.918 122.941 6455.355 38.370 0.000 47.742 -0.000 23.865 0.000 0.000 47.742 32.285 122.755 MWD+IFR1+MS 8000.000 27.918 122.941 6658.667 39.278 0.000 48.320 0.000 23.872 0.000 0.000 48.320 33.241 122.762 MWD+IFR1+MS 8100.000 25.918 122.941 6658.651 39.641 0.000 48.686 0.000 24.141 0.000 0.000 48.868 33.714 122.762 MWD+IFR1+MS 8200.000 21.918 122.941 6930.616 40.185 0.000 49.384 -0.000 24.387 0.000 0.000 49.385 34.181 122.759 MWD+IFR1+MS 8300.000 19.918 122.941 7024.020 40.365 0.000 50.327 0.000 24.819 0.000 0.000 49.871 34.641 122.753 MWD+IFR1+MS 8500.000 17.918 122.941 7118.613 40.483 0.000 50.554 0.000 25.016 0.000 0.000 50.755 35.534 122.732 MWD+IFR1+MS 8600.000 15.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.075 35.534 122.791 MWD+IFR1+MS 8600.000 19.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.075 35.534 122.771 MWD+IFR1+MS 8700.000 19.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.075 35.534 122.771 MWD+IFR1+MS 8700.000 19.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.075 35.534 122.699 MWD+IFR1+MS 8700.000 19.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.075 30.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8700.000 5.918 122.941 7214.281 40.539 0.000 51.524 0.000 25.755 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8700.000 5.918 122.941 730.554 40.342 0.000 51.869 0.000 0.000 51.524 36.381 122.691 MWD+IFR1+MS 8700.000 5.918 122.941 7605.544 40.342 0.000 52.88 0.000 0.000 52.754 37.902 122.654 MWD+IFR1+MS 9700.000 5.918 122.941 7605.544 40.342 0.000 52.88 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9700.000 5.918 122.941 7605.544 40	7300.000	41.534	122.941	6086.074	35.195	0.000	43.635	-0.000	21.366	0.000	0.000	43.635	29.967	122.628	MWD+IFR1+MS
7500.000 37.918 122.941 6239.477 36.567 0.00 45.120 0.000 0.000 45.120 30.850 122.725 MWDHFR1+MS 7600.000 35.918 122.941 6319.422 37.226 0.00 45.821 0.000 0.000 45.821 31.326 122.738 MWDHFR1+MS 7700.000 33.918 122.941 6401.415 37.827 0.000 46.492 0.000 46.492 31.805 122.748 MWDHFR1+MS 7800.000 29.918 122.941 6485.355 38.370 0.000 47.742 0.000 23.580 0.000 0.000 47.742 32.764 122.760 MWDHFR1+MS 7900.000 29.918 122.941 658.667 39.278 0.000 48.320 0.000 0.000 48.320 33.241 122.762 MWDHFR1+MS 8100.000 25.918 122.941 6638.514 39.944 0.000 48.861 0.000 0.000 48.868 33.714 122.762 MWDHFR1+MS <	7319.206	41.534	122.941	6100.450	35.302	0.000	43.781	-0.000	21.441	0.000	0.000	43.781	30.046	122.644	MWD+IFR1+MS
7600.000 35.918 122.941 6319.422 37.226 0.000 45.821 -0.000 22.559 0.000 0.000 45.821 31.326 122.738 MWDHIFR1+MS 7700.000 33.918 122.941 6401.415 37.827 0.000 46.492 -0.000 22.925 0.000 0.000 46.492 31.805 122.748 MWDHIFR1+MS 7800.000 31.918 122.941 6485.355 38.370 0.000 47.132 -0.000 47.132 32.285 122.760 MWDHIFR1+MS 7900.000 29.918 122.941 6658.667 39.278 0.000 48.320 0.000 47.742 32.764 122.760 MWDHIFR1+MS 8100.000 25.918 122.941 6658.667 39.278 0.000 48.868 -0.000 24.141 0.000 0.000 48.868 33.714 122.762 MWDHIFR1+MS 8100.000 23.918 122.941 6838.514 39.944 0.000 49.871 -0.000 24.937 0.000 <td>7400.000</td> <td>39.918</td> <td>122.941</td> <td>6161.677</td> <td>35.866</td> <td>0.000</td> <td>44.389</td> <td>-0.000</td> <td>21.759</td> <td>0.000</td> <td>0.000</td> <td>44.390</td> <td>30.388</td> <td>122.699</td> <td>MWD+IFR1+MS</td>	7400.000	39.918	122.941	6161.677	35.866	0.000	44.389	-0.000	21.759	0.000	0.000	44.390	30.388	122.699	MWD+IFR1+MS
7700.000 33.918 122.941 6401.415 37.827 0.000 46.492 0.000 0.000 46.492 31.805 122.748 MWDHIFR1+MS 7800.000 31.918 122.941 6485.355 38.370 0.000 47.132 0.000 0.000 47.132 32.285 122.755 MWDHIFR1+MS 7900.000 29.918 122.941 6571.141 38.854 0.000 47.742 0.000 0.000 47.742 32.764 122.760 MWDHIFR1+MS 8000.000 27.918 122.941 6658.667 39.278 0.000 48.320 -0.000 23.872 0.000 0.000 48.320 33.241 122.762 MWDHIFR1+MS 8100.000 25.918 122.941 6638.514 39.944 0.000 49.384 -0.000 24.387 0.000 49.385 34.181 122.759 MWDHIFR1+MS 8200.000 21.918 122.941 7024.020 40.365 0.00 50.327 -0.000 24.613 0.000 0.000	7500.000	37.918	122.941	6239.477	36.567	0.000	45.120	-0.000	22.167	0.000	0.000	45.120	30.850	122.725	MWD+IFR1+MS
7800.000 31.918 122.941 6485.355 38.370 0.000 47.132 -0.000 23.265 0.000 0.000 47.132 32.285 122.755 MWD+IFR1+MS 7900.000 29.918 122.941 6571.141 38.854 0.000 47.742 -0.000 23.580 0.000 0.000 47.742 32.764 122.760 MWD+IFR1+MS 8000.000 27.918 122.941 6658.667 39.278 0.000 48.320 -0.000 23.872 0.000 0.000 48.320 33.241 122.762 MWD+IFR1+MS 8100.000 25.918 122.941 6658.667 39.278 0.000 48.868 -0.000 24.141 0.000 0.000 48.868 33.714 122.762 MWD+IFR1+MS 8200.000 23.918 122.941 6838.514 39.944 0.00 49.887 -0.000 24.387 0.000 0.000 49.385 34.181 122.759 MWD+IFR1+MS 8300.000 19.918 122.941 7024.020 40.365 0.00 50.327 -0.000	7600.000	35.918	122.941	6319.422	37.226	0.000	45.821	-0.000	22.559	0.000	0.000	45.821	31.326	122.738	MWD+IFR1+MS
7900.000 29.918 122.941 6571.141 38.854 0.000 47.742 0.000 0.000 47.742 32.764 122.760 MWD+IFR1+MS 8000.000 27.918 122.941 6658.667 39.278 0.000 48.320 0.000 48.320 33.241 122.762 MWD+IFR1+MS 8100.000 25.918 122.941 6674.828 39.641 0.000 48.868 -0.000 24.141 0.000 0.000 48.868 33.714 122.762 MWD+IFR1+MS 8200.000 23.918 122.941 6838.514 39.944 0.000 24.813 0.000 0.000 49.385 34.181 122.759 MWD+IFR1+MS 8300.000 21.918 122.941 6930.616 40.185 0.000 24.813 0.000 0.000 49.871 34.641 122.759 MWD+IFR1+MS 8400.000 19.918 122.941 7024.020 40.365 0.000 50.327 -0.000 25.006 0.000 50.755 35.534 122.744	7700.000	33.918	122.941	6401.415	37.827	0.000	46.492	-0.000	22.925	0.000	0.000	46.492	31.805	122.748	MWD+IFR1+MS
8000.000 27.918 122.941 6658.667 39.278 0.000 48.320 -0.000 23.872 0.000 0.000 48.320 33.241 122.762 MWD+IFR1+MS 8100.000 25.918 122.941 6747.828 39.641 0.000 48.868 -0.000 24.141 0.000 0.000 48.868 33.714 122.762 MWD+IFR1+MS 8200.000 23.918 122.941 6838.514 39.944 0.000 49.384 -0.000 24.813 0.000 0.000 49.385 34.181 122.759 MWD+IFR1+MS 8300.000 21.918 122.941 6930.616 40.185 0.000 49.871 -0.000 24.613 0.000 0.000 49.871 34.641 122.753 MWD+IFR1+MS 8400.000 19.918 122.941 7024.020 40.365 0.000 50.327 -0.000 24.819 0.000 50.327 35.092 122.744 MWD+IFR1+MS 8500.000 17.918 122.941 7118.613 40.483 0.000 50.754 -0.000 25.060 <td>7800.000</td> <td>31.918</td> <td>122.941</td> <td>6485.355</td> <td>38.370</td> <td>0.000</td> <td>47.132</td> <td>-0.000</td> <td>23.265</td> <td>0.000</td> <td>0.000</td> <td>47.132</td> <td>32.285</td> <td>122.755</td> <td>MWD+IFR1+MS</td>	7800.000	31.918	122.941	6485.355	38.370	0.000	47.132	-0.000	23.265	0.000	0.000	47.132	32.285	122.755	MWD+IFR1+MS
8100.000	7900.000	29.918	122.941	6571.141	38.854	0.000	47.742	-0.000	23.580	0.000	0.000	47.742	32.764	122.760	MWD+IFR1+MS
8200.000	8000.000	27.918	122.941	6658.667	39.278	0.000	48.320	-0.000	23.872	0.000	0.000	48.320	33.241	122.762	MWD+IFR1+MS
8300.000 21.918 122.941 6930.616 40.185 0.000 49.871 -0.000 24.613 0.000 0.000 49.871 34.641 122.753 MWD+IFR1+MS 8400.000 19.918 122.941 7024.020 40.365 0.000 50.327 -0.000 24.819 0.000 0.000 50.327 35.092 122.744 MWD+IFR1+MS 8500.000 17.918 122.941 7118.613 40.483 0.000 50.754 -0.000 25.006 0.000 0.000 50.755 35.534 122.732 MWD+IFR1+MS 8600.000 15.918 122.941 7214.281 40.539 0.000 51.553 -0.000 25.176 0.000 0.000 51.153 35.963 122.717 MWD+IFR1+MS 8700.000 13.918 122.941 7310.905 40.534 0.000 51.524 -0.000 25.330 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.697 MWD+IFR1+MS 9100.000 5.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.203 38.562 122.597 MWD+IFR1+MS 9200.000 1.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.233 38.562 122.566 MWD+IFR1+MS 9300.000 1.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.233 38.562 122.566 MWD+IFR1+MS	8100.000	25.918	122.941	6747.828	39.641	0.000	48.868	-0.000	24.141	0.000	0.000	48.868	33.714	122.762	MWD+IFR1+MS
8400.000 19.918 122.941 7024.020 40.365 0.000 50.327 -0.000 24.819 0.000 0.000 50.327 35.092 122.744 MWD+IFR1+MS 8500.000 17.918 122.941 7118.613 40.483 0.000 50.754 -0.000 25.006 0.000 0.000 50.755 35.534 122.732 MWD+IFR1+MS 8600.000 15.918 122.941 7214.281 40.539 0.000 51.153 -0.000 25.176 0.000 0.000 51.153 35.963 122.717 MWD+IFR1+MS 8700.000 13.918 122.941 7310.905 40.534 0.000 51.524 -0.000 25.330 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 1.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.203 38.562 122.568 MWD+IFR1+MS 9300.000 1.918 122.941 7804.233 39.609 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS 9300.000 1.918 122.941 7804.233 39.609 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8200.000	23.918	122.941	6838.514	39.944	0.000	49.384	-0.000	24.387	0.000	0.000	49.385	34.181	122.759	MWD+IFR1+MS
8500.000 17.918 122.941 7118.613 40.483 0.000 50.754 -0.000 25.006 0.000 0.000 50.755 35.534 122.732 MWD+IFR1+MS 8600.000 15.918 122.941 7214.281 40.539 0.000 51.524 -0.000 25.176 0.000 0.000 51.153 35.963 122.717 MWD+IFR1+MS 8700.000 13.918 122.941 7310.905 40.534 0.000 51.524 -0.000 25.330 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8300.000	21.918	122.941	6930.616	40.185	0.000	49.871	-0.000	24.613	0.000	0.000	49.871	34.641	122.753	MWD+IFR1+MS
8600.000 15.918 122.941 7214.281 40.539 0.000 51.153 -0.000 25.176 0.000 0.000 51.153 35.963 122.717 MWD+IFR1+MS 8700.000 13.918 122.941 7310.905 40.534 0.000 51.524 -0.000 25.330 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8400.000	19.918	122.941	7024.020	40.365	0.000	50.327	-0.000	24.819	0.000	0.000	50.327	35.092	122.744	MWD+IFR1+MS
8700.000 13.918 122.941 7310.905 40.534 0.000 51.524 -0.000 25.330 0.000 0.000 51.524 36.381 122.699 MWD+IFR1+MS 8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 9000.000 7.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8500.000	17.918	122.941	7118.613	40.483	0.000	50.754	-0.000	25.006	0.000	0.000	50.755	35.534	122.732	MWD+IFR1+MS
8800.000 11.918 122.941 7408.369 40.469 0.000 51.869 -0.000 25.470 0.000 0.000 51.869 36.784 122.678 MWD+IFR1+MS 8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8600.000	15.918	122.941	7214.281	40.539	0.000	51.153	-0.000	25.176	0.000	0.000	51.153	35.963	122.717	MWD+IFR1+MS
8900.000 9.918 122.941 7506.554 40.342 0.000 52.188 -0.000 25.596 0.000 0.000 52.188 37.172 122.654 MWD+IFR1+MS 9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8700.000	13.918	122.941	7310.905	40.534	0.000	51.524	-0.000	25,330	0.000	0.000	51.524	36.381	122.699	MWD+IFR1+MS
9000.000 7.918 122.941 7605.340 40.156 0.000 52.482 -0.000 25.711 0.000 0.000 52.483 37.545 122.627 MWD+IFR1+MS 9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8800.000	11.918	122.941	7408.369	40.469	0.000	51.869	-0.000	25.470	0.000	0.000	51.869	36.784	122.678	MWD+IFR1+MS
9100.000 5.918 122.941 7704.607 39.911 0.000 52.754 -0.000 25.816 0.000 0.000 52.754 37.902 122.597 MWD+IFR1+MS 9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	8900.000	9.918	122.941	7506.554	40.342	0.000	52.188	-0.000	25,596	0.000	0.000	52.188	37.172	122.654	MWD+IFR1+MS
9200.000 3.918 122.941 7804.233 39.609 0.000 53.003 -0.000 25.913 0.000 0.000 53.004 38.241 122.563 MWD+IFR1+MS 9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	9000.000	7.918	122.941	7605.340	40.156	0.000	52.482	-0.000	25.711	0.000	0.000	52.483	37.545	122.627	MWD+IFR1+MS
9300.000 1.918 122.941 7904.099 39.250 0.000 53.232 -0.000 26.004 0.000 0.000 53.233 38.562 122.526 MWD+IFR1+MS	9100.000	5.918	122.941	7704.607	39.911	0.000			25.816	0.000	0.000	52.754	37.902	122.597	MWD+IFR1+MS
	9200.000	3.918	122.941	7804.233	39.609	0.000	53.003	-0.000	25.913	0.000	0.000	53.004	38.241	122.563	MWD+IFR1+MS
9395.919 0.000 0.000 8000.000 49.638 0.000 43.535 0.000 26.086 0.000 0.000 53.429 38.788 122.547 MWD+IFR1+MS	9300.000	1.918	122.941	7904.099	39.250	0.000	53.232	-0.000	26.004	0.000	0.000	53.233	38.562	122.526	MWD+IFR1+MS
	9395.919	0.000	0.000	8000.000	49.638	0.000	43.535	0.000	26.086	0.000	0.000	53.429	38.788	122.547	MWD+IFR1+MS

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9400.000	0.000	0.000	8004.081	49.645	0.000	43.543	0.000	26.089	0.000	0.000	53.437	38.796	122.546 MWD+IFR1+MS
9500.000	0.000	0.000	8104.081	49.842	0.000	43.737	0.000	26.174	0.000	0.000	53.622	39.010	122.516 MWD+IFR1+MS
9600.000	0.000	0.000	8204.081	50.043	0.000	43.936	0.000	26.261	0.000	0.000	53.813	39.227	122.492 MWD+IFR1+MS
9700.000	0.000	0.000	8304.081	50.245	0.000	44.137	0.000	26.352	0.000	0.000	54.007	39.445	122.467 MWD+IFR1+MS
9800.000	0.000	0.000	8404.081	50.449	0.000	44.340	0.000	26.444	0.000	0.000	54.202	39.666	122.443 MWD+IFR1+MS
9900.000	0.000	0.000	8504.081	50.655	0.000	44.545	0.000	26.540	0.000	0.000	54.398	39.889	122.419 MWD+IFR1+MS
10000.000	0.000	0.000	8604.081	50.863	0.000	44.752	0.000	26.639	0.000	0.000	54.597	40.113	122.395 MWD+IFR1+MS
10100.000	0.000	0.000	8704.081	51.072	0.000	44.961	0.000	26.740	0.000	0.000	54.796	40.339	122.371 MWD+IFR1+MS
10200.000	0.000	0.000	8804.081	51.283	0.000	45.172	0.000	26.845	0.000	0.000	54.998	40.568	122.347 MWD+IFR1+MS
10300.000	0.000	0.000	8904.081	51.496	0.000	45.385	0.000	26.952	0.000	0.000	55.201	40.798	122.324 MWD+IFR1+MS
10400.000	0.000	0.000	9004.081	51.710	0.000	45.599	0.000	27.062	0.000	0.000	55.406	41.030	122.300 MWD+IFR1+MS
10500.000	0.000	0.000	9104.081	51.926	0.000	45.816	0.000	27.176	0.000	0.000	55.612	41.264	122.277 MWD+IFR1+MS
10600.000	0.000	0.000	9204.081	52.144	0.000	46.034	0.000	27.292	0.000	0.000	55.820	41.500	122.254 MWD+IFR1+MS
10700.000	0.000	0.000	9304.081	52.362	0.000	46.254	0.000	27.412	0.000	0.000	56.029	41.737	122.230 MWD+IFR1+MS
10800.000	0.000	0.000	9404.081	52.583	0.000	46.475	0.000	27.535	0.000	0.000	56.240	41.976	122.207 MWD+IFR1+MS
10900.000	0.000	0.000	9504.081	52.805	0.000	46.699	0.000	27.661	0.000	0.000	56.452	42.217	122.184 MWD+IFR1+MS
11000.000	0.000	0.000	9604.081	53.028	0.000	46.924	0.000	27.791	0.000	0.000	56.666	42.459	122.162 MWD+IFR1+MS
11100.000	0.000	0.000	9704.081	53.253	0.000	47.150	0.000	27.924	0.000	0.000	56.882	42.703	122.139 MWD+IFR1+MS
11200.000	0.000	0.000	9804.081	53.480	0.000	47.378	0.000	28.060	0.000	0.000	57.098	42.949	122.116 MWD+IFR1+MS
11300.000	0.000	0.000	9904.081	53.708	0.000	47.608	0.000	28.200	0.000	0.000	57.316	43.196	122.094 MWD+IFR1+MS
11400.000	0.000	0.000	10004.081	53.937	0.000	47.840	0.000	28.343	0.000	0.000	57.536	43.445	122.072 MWD+IFR1+MS
11500.000	0.000	0.000	10104.081	54.168	0.000	48.073	0.000	28.489	0.000	0.000	57.757	43.695	122.049 MWD+IFR1+MS
11581.722	0.000	0.000	10185.803	54.356	0.000	48.263	0.000	28.612	0.000	0.000	57.937	43.901	122.030 MWD+IFR1+MS
11600.000	1.462	359.944	10204.079	54.157	0.000	48.318	0.000	28.639	0.000	0.000	57.977	43.946	122.025 MWD+IFR1+MS
11700.000	9.462	359.944	10303.544	52.948	0.000	48.533	0.000	28.802	0.000	0.000	58.380	44.245	121.525 MWD+IFR1+MS
11800.000	17.462	359.944	10400.717	51.566	0.000	48.724	0.000	29.046	0.000	0.000	59.114	44.620	120.257 MWD+IFR1+MS
11900.000	25.462	359.944	10493.707	49.601	0.000	48.885	0.000	29.431	0.000	0.000	59.777	44.922	119.210 MWD+IFR1+MS
12000.000	33.462	359.944	10580.705	47.204	0.000	49.015	0.000	30.009	0.000	0.000	60.346	45.155	118.383 MWD+IFR1+MS
12100.000	41.462	359.944	10660.016	44.575	0.000	49.115	0.000	30.806	0.000	0.000	60.808	45.327	117.760 MWD+IFR1+MS
12200.000	49.462	359.944	10730.097	41.962	0.000	49.187	0.000	31.828	0.000	0.000	61.153	45.447	117.313 MWD+IFR1+MS
12300.000	57.462	359.944	10789.584	39.665	0.000	49.230	0.000	33.057	0.000	0.000	61.384	45.527	117.004 MWD+IFR1+MS
12400.000	65.462	359.944	10837.319	38.006	0.000	49.249	0.000	34.457	0.000	0.000	61.510	45.580	116.791 MWD+IFR1+MS
12500.000	73.462	359.944	10872.373	37.276	0.000	49.245	0.000	35.980	0.000	0.000	61.546	45.616	116.625 MWD+IFR1+MS

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12600.000	81.462	359.944	10894.063	37.653	0.000	49.220	0.000	37.569	0.000	0.000	61.515	45.649	116.454	MWD+IFR1+MS
12706.722	90.000	359.944	10902.000	39.435	0.000	49.174	0.000	39.435	0.000	0.000	61.439	45.694	116.203	MWD+IFR1+MS
12800.000	90.000	359.944	10902.000	40.183	0.000	49.131	0.000	40.183	0.000	0.000	61.364	45.745	115.937	MWD+IFR1+MS
12900.000	90.000	359.944	10902.000	40.672	0.000	49.101	0.000	40.672	0.000	0.000	61.286	45.812	115.666	MWD+IFR1+MS
13000.000	90.000	359.944	10902.000	41.170	0.000	49.086	0.000	41.170	0.000	0.000	61.211	45.892	115.412	MWD+IFR1+MS
13100.000	90.000	359.944	10902.000	41.677	0.000	49.087	0.000	41.677	0.000	0.000	61.140	45.985	115.173	MWD+IFR1+MS
13200.000	90.000	359.944	10902.000	42.193	0.000	49.104	0.000	42.193	0.000	0.000	61.071	46.091	114.949	MWD+IFR1+MS
13300.000	90.000	359.944	10902.000	42.717	0.000	49.137	0.000	42.717	0.000	0.000	61.005	46.211	114.740	MWD+IFR1+MS
13400.000	90.000	359.944	10902.000	43.249	0.000	49.185	0.000	43.249	0.000	0.000	60.943	46.343	114.547	MWD+IFR1+MS
13500.000	90.000	359.944	10902.000	43.788	0.000	49.250	0.000	43.788	0.000	0.000	60.883	46.489	114.371	MWD+IFR1+MS
13600.000	90.000	359.944	10902.000	44.335	0.000	49.330	0.000	44.335	0.000	0.000	60.825	46.648	114.210	MWD+IFR1+MS
13700.000	90.000	359.944	10902.000	44.889	0.000	49.425	0.000	44.889	0.000	0.000	60.770	46.820	114.066	MWD+IFR1+MS
13800.000	90.000	359.944	10902.000	45.449	0.000	49.536	0.000	45.449	0.000	0.000	60.718	47.005	113.940	MWD+IFR1+MS
13900.000	90.000	359.944	10902.000	46.017	0.000	49.662	0.000	46.017	0.000	0.000	60.669	47.203	113.831	MWD+IFR1+MS
14000.000	90.000	359.944	10902.000	46.590	0.000	49.804	0.000	46.590	0.000	0.000	60.622	47.414	113.741	MWD+IFR1+MS
14100.000	90.000	359.944	10902.000	47.170	0.000	49.961	0.000	47.170	0.000	0.000	60.577	47.638	113.670	MWD+IFR1+MS
14200.000	90.000	359.944	10902.000	47.755	0.000	50.132	0.000	47.755	0.000	0.000	60.535	47.874	113.619	MWD+IFR1+MS
14300.000	90.000	359.944	10902.000	48.346	0.000	50.319	0.000	48.346	0.000	0.000	60.495	48.123	113.590	MWD+IFR1+MS
14400.000	90.000	359.944	10902.000	48.943	0.000	50.520	0.000	48.943	0.000	0.000	60.457	48.384	113.583	MWD+IFR1+MS
14500.000	90.000	359.944	10902.000	49.545	0.000	50.736	0.000	49.545	0.000	0.000	60.422	48.657	113.601	MWD+IFR1+MS
14600.000	90.000	359.944	10902.000	50.151	0.000	50.966	0.000	50.151	0.000	0.000	60.390	48.941	113.644	MWD+IFR1+MS
14700.000	90.000	359.944	10902.000	50.763	0.000	51.210	0.000	50.763	0.000	0.000	60.360	49.238	113.717	MWD+IFR1+MS
14800.000	90.000	359.944	10902.000	51.380	0.000	51.468	0.000	51.380	0.000	0.000	60.332	49.546	113.819	MWD+IFR1+MS
14900.000	90.000	359.944	10902.000	52.001	0.000	51.740	0.000	52.001	0.000	0.000	60.307	49.865	113.956	MWD+IFR1+MS
15000.000	90.000	359.944	10902.000	52.626	0.000	52.025	0.000	52.626	0.000	0.000	60.284	50.194	114.130	MWD+IFR1+MS
15100.000	90.000	359.944	10902.000	53.256	0.000	52.323	0.000	53.256	0.000	0.000	60.264	50.535	114.345	MWD+IFR1+MS
15200.000	90.000	359.944	10902.000	53.889	0.000	52.635	0.000	53.889	0.000	0.000	60.247	50.885	114.607	MWD+IFR1+MS
15300.000	90.000	359.944	10902.000	54.527	0.000	52.959	0.000	54.527	0.000	0.000	60.233	51.245	114.922	MWD+IFR1+MS
15400.000	90.000	359.944	10902.000	55.168	0.000	53.296	0.000	55.168	0.000	0.000	60.223	51.614	115.296	MWD+IFR1+MS
15500.000	90.000	359.944	10902.000	55.813	0.000	53.646	0.000	55.813	0.000	0.000	60.216	51.992	115.738	MWD+IFR1+MS
15600.000	90.000	359.944	10902.000	56.462	0.000	54.007	0.000	56.462	0.000	0.000	60.212	52.378	116.258	MWD+IFR1+MS
15700.000	90.000	359.944	10902.000	57.114	0.000	54.381	0.000	57.114	0.000	0.000	60.213	52.771	116.871	MWD+IFR1+MS
15800.000	90.000	359.944	10902.000	57.769	0.000	54.766	0.000	57.769	0.000	0.000	60.219	53.172	117.590	MWD+IFR1+MS

159	00.000	90.000	359.944	10902.000	58.427	0.000	55.162	0.000	58.427	0.000	0.000	60.230	53.577	118.435	MWD+IFR1+MS
160	00.000	90.000	359.944	10902.000	59.089	0.000	55.569	0.000	59.089	0.000	0.000	60.248	53.988	119.430	MWD+IFR1+MS
161	00.000	90.000	359.944	10902.000	59.754	0.000	55.988	0.000	59.754	0.000	0.000	60.274	54.401	120.603	MWD+IFR1+MS
162	00.000	90.000	359.944	10902.000	60.421	0.000	56.417	0.000	60.421	0.000	0.000	60.309	54.816	121.990	MWD+IFR1+MS
163	00.000	90.000	359.944	10902.000	61.091	0.000	56.856	0.000	61.091	0.000	0.000	60.355	55.230	123.633	MWD+IFR1+MS
164	00.000	90.000	359.944	10902.000	61.764	0.000	57.306	0.000	61.764	0.000	0.000	60.415	55.641	125.580	MWD+IFR1+MS
165	00.000	90.000	359.944	10902.000	62.440	0.000	57.765	0.000	62.440	0.000	0.000	60.491	56.044	127.884	MWD+IFR1+MS
166	00.000	90.000	359.944	10902.000	63.118	0.000	58.235	0.000	63.118	0.000	0.000	60.590	56.435	130.596	MWD+IFR1+MS
167	00.000	90.000	359.944	10902.000	63.798	0.000	58.713	0.000	63.798	0.000	0.000	60.715	56.809	133.753	MWD+IFR1+MS
168	00.000	90.000	359.944	10902.000	64.481	0.000	59.201	0.000	64.481	0.000	0.000	60.872	57.160	-42.643	MWD+IFR1+MS
169	00.000	90.000	359.944	10902.000	65.166	0.000	59.698	0.000	65.166	0.000	0.000	61.068	57.482	-38.648	MWD+IFR1+MS
170	00.000	90.000	359.944	10902.000	65.854	0.000	60.204	0.000	65.854	0.000	0.000	61.307	57.769	-34.392	MWD+IFR1+MS
171	00.000	90.000	359.944	10902.000	66.543	0.000	60.718	0.000	66.543	0.000	0.000	61.593	58.017	-30.067	MWD+IFR1+MS
172	00.000	90.000	359.944	10902.000	67.235	0.000	61.241	0.000	67.235	0.000	0.000	61.925	58.228	-25.882	MWD+IFR1+MS
173	00.000	90.000	359.944	10902.000	67.929	0.000	61.772	0.000	67.929	0.000	0.000	62.302	58.403	-22.009	MWD+IFR1+MS
174	00.000	90.000	359.944	10902.000	68.624	0.000	62.310	0.000	68.624	0.000	0.000	62.717	58.546	-18.551	MWD+IFR1+MS
175	00.000	90.000	359.944	10902.000	69.322	0.000	62.857	0.000	69.322	0.000	0.000	63.167	58.663	-15.539	MWD+IFR1+MS
176	00.000	90.000	359.944	10902.000	70.021	0.000	63.411	0.000	70.021	0.000	0.000	63.645	58.760	-12.956	MWD+IFR1+MS
177	00.000	90.000	359.944	10902.000	70.722	0.000	63.972	0.000	70.722	0.000	0.000	64.148	58.839	-10.757	MWD+IFR1+MS
178	00.000	90.000	359.944	10902.000	71.425	0.000	64.540	0.000	71.425	0.000	0.000	64.671	58.906	-8.889	MWD+IFR1+MS
179	00.000	90.000	359.944	10902.000	72.130	0.000	65.116	0.000	72.130	0.000	0.000	65.211	58.962	-7.302	MWD+IFR1+MS
180	00.000	90.000	359.944	10902.000	72.836	0.000	65.698	0.000	72.836	0.000	0.000	65.766	59.010	-5.947	MWD+IFR1+MS
181	00.000	90.000	359.944	10902.000	73.544	0.000	66.287	0.000	73.544	0.000	0.000	66.334	59.052	-4.787	MWD+IFR1+MS
182	00.000	90.000	359.944	10902.000	74.253	0.000	66.882	0.000	74.253	0.000	0.000	66.913	59.088	-3.787	MWD+IFR1+MS
183	00.000	90.000	359.944	10902.000	74.964	0.000	67.483	0.000	74.964	0.000	0.000	67.503	59.121	-2.923	MWD+IFR1+MS
184	00.000	90.000	359.944	10902.000	75.677	0.000	68.091	0.000	75.677	0.000	0.000	68.102	59.151	-2.170	MWD+IFR1+MS
185	000.000	90.000	359.944	10902.000	76.390	0.000	68.704	0.000	76.390	0.000	0.000	68.710	59.178	-1.513	MWD+IFR1+MS
186	00.000	90.000	359.944	10902.000	77.106	0.000	69.324	0.000	77.106	0.000	0.000	69.326	59.204	-0.935	MWD+IFR1+MS
187	00.000	90.000	359.944	10902.000	77.822	0.000	69.948	0.000	77.822	0.000	0.000	69.949	59.227	-0.426	MWD+IFR1+MS
188	00.000	90.000	359.944	10902.000	78.540	0.000	70.579	0.000	78.540	0.000	0.000	70.579	59.250	0.025	MWD+IFR1+MS
189	00.000	90.000	359.944	10902.000	79.259	0.000	71.214	0.000	79.259	0.000	0.000	71.215	59.271	0.425	MWD+IFR1+MS
190	00.000	90.000	359.944	10902.000	79.979	0.000	71.855	0.000	79.979	0.000	0.000	71.858	59.292	0.782	MWD+IFR1+MS
191	00.000	90.000	359.944	10902.000	80.701	0.000	72.501	0.000	80.701	0.000	0.000	72.506	59.313	1.102	MWD+IFR1+MS

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19200.000	90.000	359.944	10902.000	81.423	0.000	73.152	0.000	81.423	0.000	0.000	73.160	59.333	1.388	MWD+IFR1+MS
19300.000	90.000	359.944	10902.000	82.147	0.000	73.807	0.000	82.147	0.000	0.000	73.819	59.352	1.645	MWD+IFR1+MS
19400.000	90.000	359.944	10902.000	82.872	0.000	74.467	0.000	82.872	0.000	0.000	74.483	59.372	1.877	MWD+IFR1+MS
19500.000	90.000	359.944	10902.000	83.598	0.000	75.132	0.000	83.598	0.000	0.000	75.152	59.392	2.086	MWD+IFR1+MS
19600.000	90.000	359.944	10902.000	84.325	0.000	75.801	0.000	84.325	0.000	0.000	75.825	59.411	2.275	MWD+IFR1+MS
19700.000	90.000	359.944	10902.000	85.053	0.000	76.475	0.000	85.053	0.000	0.000	76.503	59.431	2.447	MWD+IFR1+MS
19800.000	90.000	359.944	10902.000	85.782	0.000	77.152	0.000	85.782	0.000	0.000	77.186	59.450	2.602	MWD+IFR1+MS
19900.000	90.000	359.944	10902.000	86.512	0.000	77.834	0.000	86.512	0.000	0.000	77.872	59.470	2.743	MWD+IFR1+MS
20000.000	90.000	359.944	10902.000	87.243	0.000	78.519	0.000	87.243	0.000	0.000	78.563	59.490	2.871	MWD+IFR1+MS
20100.000	90.000	359.944	10902.000	87.975	0.000	79.209	0.000	87.975	0.000	0.000	79.258	59.511	2.988	MWD+IFR1+MS
20200.000	90.000	359.944	10902.000	88.708	0.000	79.902	0.000	88.708	0.000	0.000	79.956	59.532	3.094	MWD+IFR1+MS
20300.000	90.000	359.944	10902.000	89.442	0.000	80.599	0.000	89.442	0.000	0.000	80.658	59.553	3.191	MWD+IFR1+MS
20400.000	90.000	359.944	10902.000	90.176	0.000	81.299	0.000	90.176	0.000	0.000	81.363	59.574	3.279	MWD+IFR1+MS
20500.000	90.000	359.944	10902.000	90.912	0.000	82.003	0.000	90.912	0.000	0.000	82.072	59.596	3.360	MWD+IFR1+MS
20600.000	90.000	359.944	10902.000	91.648	0.000	82.711	0.000	91.648	0.000	0.000	82.784	59.618	3.433	MWD+IFR1+MS
20700.000	90.000	359.944	10902.000	92.385	0.000	83.421	0.000	92.385	0.000	0.000	83.500	59.640	3.500	MWD+IFR1+MS
20800.000	90.000	359.944	10902.000	93.123	0.000	84.135	0.000	93.123	0.000	0.000	84.219	59.663	3.561	MWD+IFR1+MS
20900.000	90.000	359.944	10902.000	93.862	0.000	84.852	0.000	93.862	0.000	0.000	84.940	59.686	3.616	MWD+IFR1+MS
21000.000	90.000	359.944	10902.000	94.601	0.000	85.572	0.000	94.601	0.000	0.000	85.665	59.710	3.667	MWD+IFR1+MS
21100.000	90.000	359.944	10902.000	95.341	0.000	86.295	0.000	95.341	0.000	0.000	86.393	59.734	3.713	MWD+IFR1+MS
21200.000	90.000	359.944	10902.000	96.082	0.000	87.021	0.000	96.082	0.000	0.000	87.123	59.758	3.754	MWD+IFR1+MS
21300.000	90.000	359.944	10902.000	96.823	0.000	87.750	0.000	96.823	0.000	0.000	87.856	59.783	3.792	MWD+IFR1+MS
21400.000	90.000	359.944	10902.000	97.565	0.000	88.481	0.000	97.565	0.000	0.000	88.592	59.809	3.826	MWD+IFR1+MS
21500.000	90.000	359.944	10902.000	98.308	0.000	89.216	0.000	98.308	0.000	0.000	89.330	59.835	3.857	MWD+IFR1+MS
21600.000	90.000	359.944	10902.000	99.052	0.000	89.953	0.000	99.052	0.000	0.000	90.071	59.861	3.885	MWD+IFR1+MS
21700.000	90.000	359.944	10902.000	99.796	0.000	90.692	0.000	99.796	0.000	0.000	90.815	59.888	3.910	MWD+IFR1+MS
21800.000	90.000	359.944	10902.000	100.540	0.000	91.434	0.000	100.540	0.000	0.000	91.561	59.915	3.932	MWD+IFR1+MS
21900.000	90.000	359.944	10902.000	101.286	0.000	92.178	0.000	101.286	0.000	0.000	92.309	59.943	3.952	MWD+IFR1+MS
22000.000	90.000	359.944	10902.000	102.031	0.000	92.925	0.000	102.031	0.000	0.000	93.059	59.971	3.970	MWD+IFR1+MS
22100.000	90.000	359.944	10902.000	102.778	0.000	93.674	0.000	102.778	0.000	0.000	93.812	59.999	3.986	MWD+IFR1+MS
22200.000	90.000	359.944	10902.000	103.525	0.000	94.426	0.000	103.525	0.000	0.000	94.567	60.029	3.999	MWD+IFR1+MS
22300.000	90.000	359.944	10902.000	104.273	0.000	95.179	0.000	104.273	0.000	0.000	95.324	60.058	4.011	MWD+IFR1+MS
22400.000	90.000	359.944	10902.000	105.021	0.000	95.935	0.000	105.021	0.000	0.000	96.083	60.088	4.022	MWD+IFR1+MS

22500.000	90.000	359.944	10902.000	105.769	0.000	96.693	0.000	105.769	0.000	0.000	96.844	60.119	4.030 MWD+IFR1+MS
22600.000	90.000	359.944	10902.000	106.519	0.000	97.453	0.000	106.519	0.000	0.000	97.607	60.150	4.037 MWD+IFR1+MS
22677.327	90.000	359.944	10902.000	107.098	0.000	98.041	0.000	107.098	0.000	0.000	98.198	60.174	4.042 MWD+IFR1+MS
22700.000	90.000	359.944	10902.000	107.267	0.000	98.213	0.000	107.267	0.000	0.000	98.370	60.181	4.044 MWD+IFR1+MS
22776.117	90.000	359.944	10902.000	107.837	0.000	98.793	0.000	107.837	0.000	0.000	98.953	60.205	4.047 MWD+IFR1+MS

Plan Targets	PLU 29-20 105H

	Measured Depth	Grid Northing	Grid Easting	TVD MSL Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)
FTP 3	12706.62	401490.90	669946.80	7511.00 RECTANGLE
LTP 3	22677.33	411461.50	669937.00	7511.00 RECTANGLE
BHL 3	22776.66	411560.50	669936.40	7511.00 RECTANGLE

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: XTO Energy Incorporated
WELL NAME & NO.: Poker Lake Unit 29-20 BS 105H
LOCATION: Sec 29-25S-31E-NMP
COUNTY: Eddy County, New Mexico

COA

H ₂ S	No	C Yes		
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP
Cave / Karst	C Low	Medium	• High	Critical
Wellhead	Conventional	• Multibowl	O Both	Diverter
Cementing	☐ Primary Squeeze	Cont. Squeeze	EchoMeter	□ DV Tool
Special Req	Break Testing	☐ Water Disposal	\square COM	Unit
Variance	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
		Batch APD / Sundry		_

A. HYDROGEN SULFIDE

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 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **9-5/8** inch surface casing shall be set at approximately 937 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) 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 will be a minimum of <u>8 hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - 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 **7-5/8** inch intermediate casing is:

Operator has proposed to cement in two stages by conventionally cementing the first stage and performing a bradenhead squeeze on the second stage, contingent upon no returns to surface.

- a. First stage: Operator will cement with intent to reach the top of the **Brushy Canyon** at 6885'
- b. Second stage:
 - Operator will perform bradenhead squeeze and top-out. Cement to surface. If cement does not reach surface, the appropriate BLM office shall be notified.
 Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.
- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.

Operator has proposed to pump down 9-5/8" X 7-5/8" annulus after primary cementing stage. Operator must run Echo-meter to verify Cement Slurry/Fluid top in the annulus OR operator shall run a CBL from TD of the 7-5/8" casing to surface after the second stage BH to verify TOC. Submit results to the BLM. No displacement fluid/wash out shall be utilized at the top of the cement slurry between second stage BH and top out.

If cement does not reach surface, the next casing string must come to surface. Operator must use a limited flush fluid volume of 1 bbl following backside cementing procedures.

- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **300 feet** into previous casing string (tieback increased due to not meeting 0.422" clearance requirement.) Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'

- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) 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. 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.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

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.

Commercial Well Determination

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

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted Choose an item. 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.

• If in the event break testing is not utilized, then a full BOPE test would be conducted.

Offline Cementing

Contact the BLM prior to the commencement of any offline cementing procedure.

GENERAL 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 (API No. / US Well No. contains 30-015-#####)

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@blm.gov; (575) 361-2822

Lea County (API No. / US Well No. contains 30-025-#####)

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240; (575) 689-5981

- 1. 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.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
- 2. 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 are located, this does not include the dog house or stairway area.
- 3. 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.

A. CASING

- 1. 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.
- 2. 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. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. 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 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. 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.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. 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.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in 43 CFR part 3170 Subpart 3172 and API STD 53 Sec. 5.3.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. 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.
- 3. 5M or higher 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.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - 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. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR part 3170 Subpart 3172 must be followed.
 - 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 4 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 cement), 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).
 - b. 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 cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. 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.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. 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.
- g. 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.
- h. 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 43 CFR part 3170 Subpart 3172.
- C. **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.
- D. **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.



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

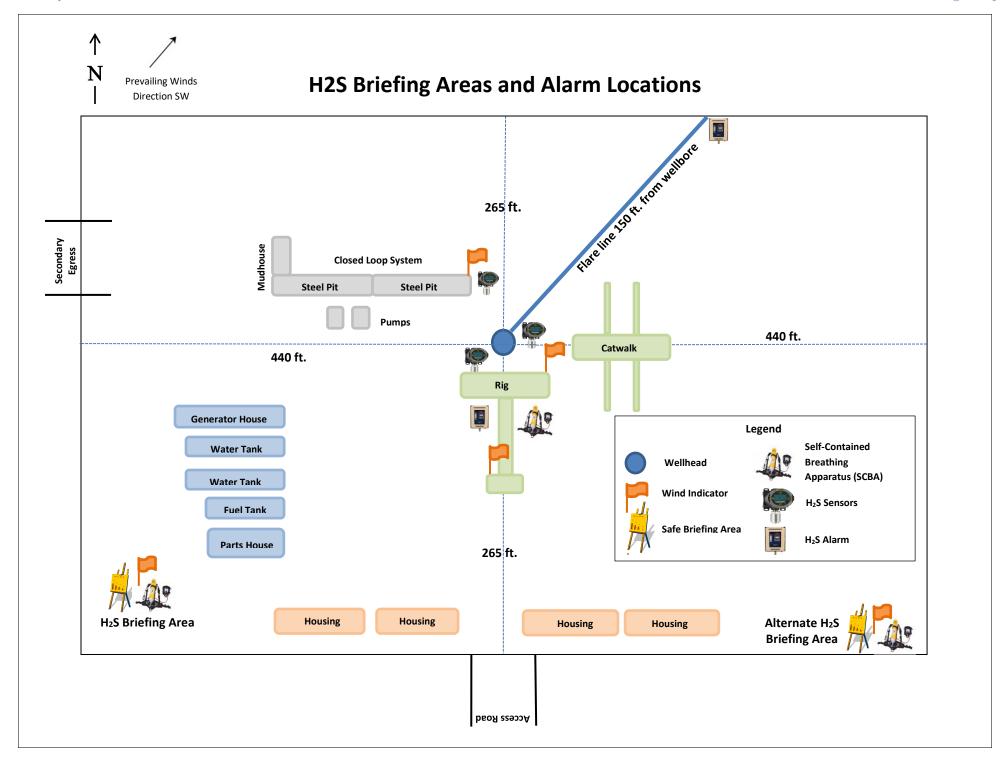
Common Name	Chemical Formula	Specific Gravity	Threshold Limit	Hazardous Limit	Lethal Concentration
Hydrogen Sulfide	H ₂ S	1.189 Air = I	10 ppm	100 ppm/hr	600 ppm
Sulfur Dioxide	SO ₂	2.21 Air = I	2 ppm	N/A	1000 ppm

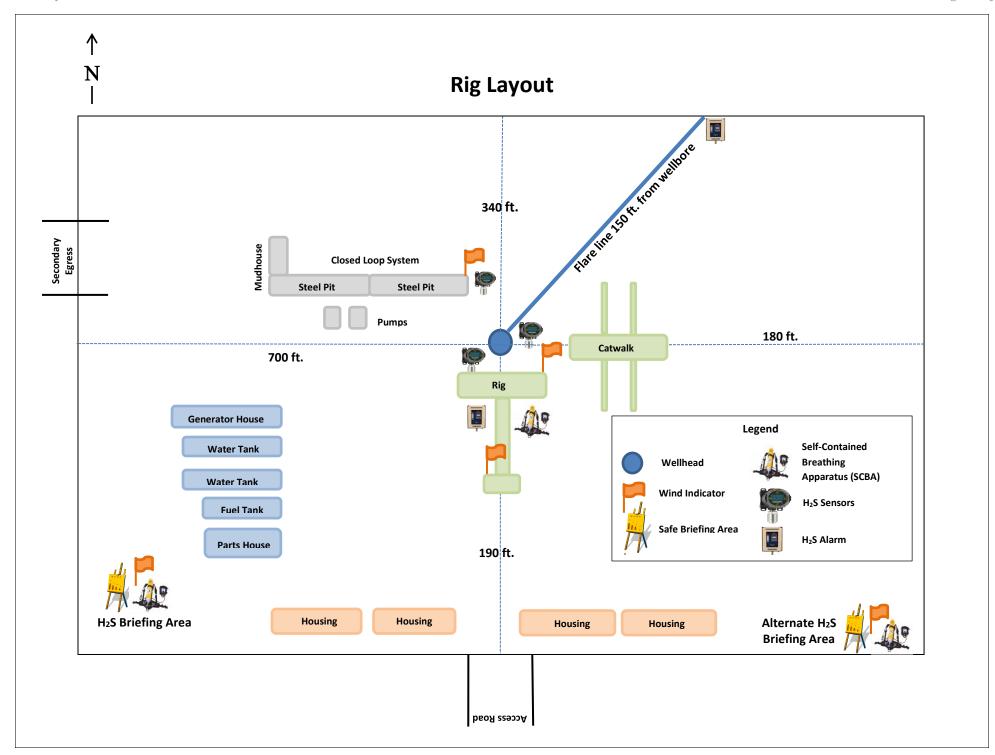
Contacting Authorities

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).

<u>CARLSBAD OFFICE – EDDY & LEA COUNTIES</u>

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





Operator Name: XTO ENERGY INCORPORATED

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Safe containment attachment:

Waste disposal type: HAUL TO COMMERCIAL Disposal location ownership: COMMERCIAL

FACILITY

Disposal type description:

Disposal location description: A licensed 3rd party contractor will be used to haul and dispose of garbage.

Reserve Pit

Reserve Pit being used? NO

Temporary disposal of produced water into reserve pit? NO

Reserve pit length (ft.) Reserve pit width (ft.)

Reserve pit depth (ft.)

Reserve pit volume (cu. yd.)

Is at least 50% of the reserve pit in cut?

Reserve pit liner

Reserve pit liner specifications and installation description

Cuttings Area

Cuttings Area being used? NO

Are you storing cuttings on location? Y

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

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities

Comments:

Operator Name: XTO ENERGY INCORPORATED

Well Name: POKER LAKE UNIT 29-20 BS Well Number: 105H

Section 9 - Well Site

Well Site Layout Diagram:

PLU_29_20_105H_Well_20240206124035.pdf PLU_29_20_BS_105H_RL_20240503101225.pdf

Comments: Multi-well pad.

Section 10 - Plans for Surface Reclamation

Type of disturbance: No New Surface Disturbance Multiple Well Pad Name: PLU 29-20 BS

Multiple Well Pad Number: A

Recontouring

PLU_29_20_BS_IR1_20240109074933.pdf PLU_29_20_BS_IR2_20240109074933.pdf PLU_29_20_BS_IR3_20240109074933.pdf PLU_29_20_BS_IR4_20240109074933.pdf

Drainage/Erosion control construction: Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. 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 sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

Well pad proposed disturbance

(acres):

Road proposed disturbance (acres):

Well pad interim reclamation (acres): 0 Well pad long term disturbance

(acres): 0

Road interim reclamation (acres): 0 Road long term disturbance (acres): 0

Powerline proposed disturbance

(acres):

Pipeline proposed disturbance

(acres):

Other proposed disturbance (acres):

Powerline interim reclamation (acres): Powerline long term disturbance

(acres): 0

Pipeline interim reclamation (acres): 0 Pipeline long term disturbance

(acres): 0

Other interim reclamation (acres): 0

Other long term disturbance (acres): 0

Total proposed disturbance: 0 Total interim reclamation: 0 Total long term disturbance: 0

Disturbance Comments:

Reconstruction method: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Topsoil redistribution: The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

Soil treatment: A self-sustaining, vigorous, diverse, native (or otherwise approved) plan community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of

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 Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 347823

CONDITIONS

Operator:	OGRID:
XTO PERMIAN OPERATING LLC.	373075
6401 HOLIDAY HILL ROAD	Action Number:
MIDLAND, TX 79707	347823
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	5/30/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	5/30/2024
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	5/30/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	5/30/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	5/30/2024
ward.rikala	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	5/30/2024