Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

REC'D NMOCD 10/27/2020 i

M APPROVED

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

5. Lease Serial No.
NMNM06808

Do not use the	SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.										
			7 16	Unit on CA/A one							
SUBMIT IN	TRIPLICATE - Other instruct	ions on page 2	7. 11	Unit or CA/Agree	ement, Name and/or No.						
Type of Well	ner		8. We	ell Name and No. AMES RANCH U	JNIT DI 1 BS2B 6E 215H 						
Name of Operator XTO PERMIAN OPERATING.	Contact: KEL , LLC E-Mail: kelly_kardos@x			PI Well No. 0-015-45461	70211						
3a. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707	G 5 3b.	Phone No. (include area code): 432-620-4374	10. F	10. Field and Pool or Exploratory Area WILDCAT BONE SPRING							
4. Location of Well (Footage, Sec., T	11. C	County or Parish,	State								
Sec 21 T22S R30E Mer NMP			E	DDY COUNTY	, NM						
	SENE 1426'FNL & 1266'FE	<u> </u>									
12. CHECK THE AF	PPROPRIATE BOX(ES) TO	INDICATE NATURE OI	F NOTICE, REPO	ORT, OR OTH	IER DATA						
TYPE OF SUBMISSION		TYPE OF	ACTION								
Notice of Intent	☐ Acidize	□ Deepen	☐ Production (St	art/Resume)	☐ Water Shut-Off						
	☐ Alter Casing	☐ Hydraulic Fracturing	□ Reclamation		☐ Well Integrity						
☐ Subsequent Report	☐ Casing Repair	■ New Construction	☐ Recomplete		☑ Other Change to Original A						
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily A		PD PD						
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposa								
13. Describe Proposed or Completed Ope If the proposal is to deepen directions Attach the Bond under which the wor following completion of the involved testing has been completed. Final Ab determined that the site is ready for fi	ally or recomplete horizontally, give so k will be performed or provide the B operations. If the operation results in andonment Notices must be filed on	subsurface locations and measur ond No. on file with BLM/BIA. n a multiple completion or reco	ed and true vertical de Required subsequen appletion in a new inte	epths of all pertine it reports must be erval, a Form 3160	ent markers and zones. filed within 30 days 0-4 must be filed once						
XTO Permian Operating, LLC,	requests permission to make	the following changes to	the original APD:								
Change the well name from Ja	ames Ranch Unit DI 1 BS2B-6	E 215H to James Ranch	Unit DI 1 702H.								
Change the SHL from 1512'FN	NL & 1558'FEL to 1426'FNL &	1266'FEL. *NO SURFAC	E DISTURBANCI	Ξ*							
Change BHL from 1340'FSL 8	2440'FWL to <mark>1320'FSL & 25</mark> 9	90'FWL.									
Casing/Cement design per the	e attached drilling program.										
XTO also requests the following	ng variances:				v2						
- 10/-10	-0.1	4	0 1/2		R						
Eng OK 10/22/10		ce good same	e COAS	10-23-2	0						
14. I hereby certify that the foregoing is	Electronic Submission #53137	79 verified by the BLM Well	Information Syste	m							
	For XTO PERMIAN O Committed to AFMSS for pro	PERATING, LLC, sent to the cessing by PRISCILLA PER	ne Carlsbad REZ on 10/02/2020	()							
Name (Printed/Typed) KELLY KA	RDOS	Title REGULA	ATORY COORDII	NATOR							
Signature (Electronic S	Submission)	Date 09/24/20	20								
	THIS SPACE FOR F	EDERAL OR STATE (OFFICE USE								
Approved By		Title AFF	1-285		23 oct Zoza						
Conditions of approval, if any, we attached certify that the applicant holds legal or equ which would entitle the applicant to condu	itable title to those rights in the subje	rarrant or oct lease Office	MP02000	CARL	(BAD						
Title 18 U.S.C. Section 1001 and Title 43			willfully to make to ar	y department or	agency of the United						

(Instructions on page 2)

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

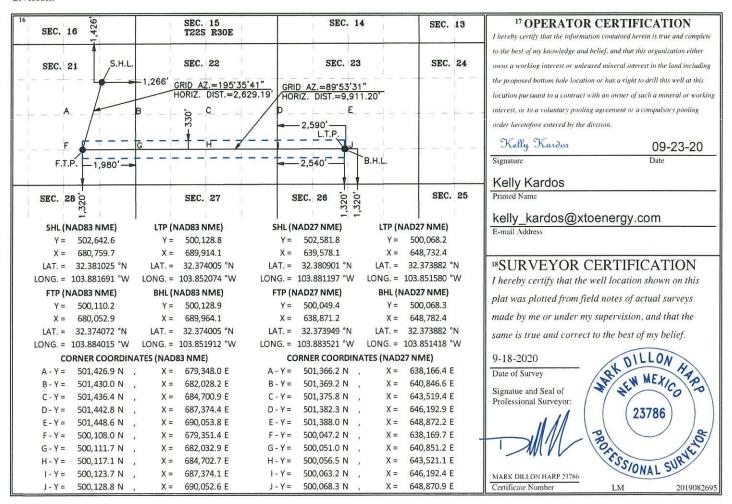
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

✓ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1	API Number 30-015-4		97905	² Pool Code	WILD	WILDCAT G-07 S223021G;BONE SPRING								
4 Property	TO CONTRACTOR OF THE PROPERTY				⁵ Property N			6 W	ell Number					
32553	5				JAMES RANCH	UNIT DI 1		702H						
7 OGRID	No.				⁸ Operator N	⁸ Operator Name ⁹ Elevation								
3730	373075 XTO PERMIAN OPERATING, LLC.													
					¹⁰ Surface L	ocation								
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
Н	21	22S	30E		1,426	NORTH	1,266	EAST	EDDY					
			11 Bott	om Hole	e Location If	Different From	Surface							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County					
K	23	22S	30E		1,320	SOUTH	2,590	WEST	EDDY					
12 Dedicated Acre	es 13 Joint o	r Infill 14 C	onsolidation Co	ode 15 Ord	ler No.									

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.



Inten	t X	As Dril	led										
API #) 15-454	161											
5.5	rator Na D PERM	me: IIAN OPI	ERATIN	G, LL	С		perty N nes R		: n Unit [DI 1	500000000000000000000000000000000000000		Well Number 702H
	Off Point			, ,			r						
UL H	Section 21	Township 22S	Range 30E	Lot	Feet 1426		From to North		Feet 1266	Eas	m E/W St	County EDDY	
Latitu 32.3	^{ide} 381025	5		ds	Longitu -103		691					NAD 83	
First	Гаке Poir	nt (FTP)											
UL K	Section 21	Township 22S	Range 30E	Lot	Feet 1320		From N		Feet 1980	From	m E/W st	County EDDY	
Latitude Longitude NAD 32.374072 -103.884015 83													
				-01841Us Us-20								<u>/</u>	
Last T	ake Poin	t (LTP)											
UL K	Section 23	Township 22S	Range 30E	Lot	Feet 1320		m N/S UTH	Feet 254		om E/W	Count		
Latitu	ide 374005				Longitu		074				NAD 83		
02.0	37 1000				100	.002					00		
Is this	well the	defining w	vell for th	e Horiz	ontal Sp	pacinį	g Unit?		Y				
Is this	well an	infill well?		N									
	I is yes pl ng Unit.	lease provi	de API if a	availab	le, Oper	ator	Name	and v	vell num	ber for	Definir	ng well fo	r Horizontal
API#													
127	rator Nar			C 117	0	Prop	perty N	ame					Well Number
710	XTO PERMIAN OPERATING, LLC												

KZ 06/29/2018

Additional data for EC transaction #531379 that would not fit on the form

32. Additional remarks, continued

Approval to utilize a spudder rig to pre-set surface casing per the attached Description of Operations.

Batch drill this well if necessary. In doing so, XTO will set each casing string and ensure that the well is cemented properly and the well is static. With floats holding, no pressure on the csg annulus, and the installation of a 10K TA cap as per GE recommendations, XTO will contact the BLM to skid the rig to drill the remaining wells on the pad. Once surface and intermediate strings are all completed, XTO will begin drilling the production hole on each of the wells.

XTO requests the option to cement the surface and intermediate casing strings offline per the attached procedure.

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. 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 (First well will be the deepest Intermediate) 2. When skidding to drill an intermediate section does not penetrate into the Wolfcamp 3. Full BOP test will be required prior to drilling the production hole. See attached procedure.

Attachments:
C102 & Supplement
Drilling Program
Multibowl Diagram
Directional Drill Plan
Spudder Rig Description of Operations
BOP Break Test Procedure
Offline Cementing Procedure

Conditions of Approval

BOP Break Testing Variance (Note: Shell testing is not approved for any portion of the hole with a MASP of 5000 psi or greater)

- 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 prior to the commencement of any BOP Break Testing operations.

A full BOP test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOP test will be required.

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

XTO Energy Inc.
James Ranch Unit DI 1 702H
Projected TD: 20639' MD / 9519' TVD

SHL: 1426' FNL & 1266' FEL , Section 21, T22S, R30E BHL: 1320' FSL & 2590' FWL , Section 23, T22S, R30E Eddy County, NM

1. Geologic Name of Surface Formation

A. Quaternary

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	149'	Water
Top of Salt	554'	Water
Base of Salt	3284'	Water
Delaware	3536'	Water
Brushy Canyon	6021'	Water/Oil/Gas
Bone Spring	7389'	Water
1st Bone Spring Ss	8306'	Water/Oil/Gas
2nd Bone Spring Ss	8914'	Water/Oil/Gas
Target/Land Curve	9519'	Water/Oil/Gas

^{***} Hydrocarbons @ Brushy Canyon

No other formations are expected to yield oil, gas or fresh water in measurable volumes. The surface fresh water sands will be protected by setting 13.375 inch casing @ 529' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3384' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9550' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 20639 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9050 feet) per Potash regulations.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' — 529'	13.375	54.5	J-55	втс	New	2.52	4.72	29.59
12.25	0' – 3384'	9.625	40	J-55	втс	New	1.38	2.34	4.65
8.75	0' – 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.91	2.95	1.97
8.75	3484' – 9550'	7.625	29.7	HC L-80	Flush Joint	New	2.12	2.61	2.25
6.75	0' – 9450'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.74	2.38
6.75	9450' - 10150'	5.5	23	RY P-110	Semi-Flush	New	1.16	2.55	6.81
6.75	10150' - 20639'	5	18	RY P-110	Semi-Premium	New	1.12	2.52	7.96

- · XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- · XTO requests to not utilize centralizers in the curve and lateral
- · 9.625 Collapse analyzed using 50% evacuation based on regional experience.
- · 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- 5.5 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- Request to use 5" BTC Float equipment for the the production casing

Wellhead:

Permanent Wellhead – Cactus CRC-MBU-3T-CFL Multibowl System

Permanent Wellhead - Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

^{***} Groundwater depth 40' (per NM State Engineers Office).

- \cdot Wellhead will be installed by manufacturer's representatives.
- · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- · Operator will test the 7-5/8" casing per BLM Onshore Order 2
- Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 13.375, 54.5 New BTC, J-55 casing to be set at +/- 529'

Lead: 170 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr = 250 psi 24 hr = 500 psi

Two additional 1" top out jobs will be attempted after the surface cement job. If the top of cement is not affected by the two top out jobs, ~10-20 ppb gravel will be added on the backside of the 1" to attempt to get cement to surface.

1st Intermediate Casing: 9.625, 40 New BTC, J-55 casing to be set at +/- 3384'

Lead: 1380 sxs Class C (mixed at 12.9 ppg, 1.39 ft3/sx, 10.13 gal/sx water) Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives:

12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 9550'

Optional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water)

900 psi

TOC: Surface

Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6021

Compressives:

12-hr =

24 hr = 1150 psi

2nd Stage

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 680 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives:

12-hr = 900 psi 24 hr = 1150 psi

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6021') 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 the 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 Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.

Production Casing: 5, 18 New Semi-Premium, RY P-110 casing to be set at +/- 20639'

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: Tail: 1030 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

Compressives:

12-hr =

1375 psi

24 hr = 2285 psi

9050 feet 9900 feet

XTO requests the option to offline cement and remediate (if needed) surface and intermediate casing strings where batch drilling is approved and if unplanned remediation is needed. XTO will ensure well is static with

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 when applicable per Cactus procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops. Offline cement operations will then be conducted after the rig is moved off the current well to the next well in the batch sequence.

5. Pressure Control Equipment

Once the permanent WH is installed on the 13.375 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3252 psi. In any instance where 10M BOP is required by BLM, XTO requests a variance to utilize 5M annular with 10M ram preventers (a common BOP configuration, which allows use of 10M rams in unlikely event that pressures exceed 5M).

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13.375, 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 13.375, the BOP will be tested to a minimum of 5000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 5M BOP diagrams are attached. Blind rams will be functioned tested each trip, pipe rams will be functioned tested each day.

A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

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 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Tuno	MW	Viscosity	Fluid Loss
INTERVAL	Hole Size	Mud Type	(ppg)	(sec/qt)	(cc)
0' - 529'	17.5	FW/Native	8.7-9.2	35-40	NC
529' - 3384'	12.25	Brine	10.4-10.9	30-32	NC
3384' to 9550'	8.75	FW / Cut Brine	10-10.5	30-32	NC
9550' to 20639'	6.75	ОВМ	10.8-11.3	29-32	NC

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

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8 ppg - 10.2 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.

7. Auxiliary Well Control and Monitoring Equipment

- A. A Kelly cock will be in the drill string at all times.
- B. A full opening drill pipe stabbing valve having appropriate connections will be on the rig floor at all times.
- C. H2S monitors will be on location when drilling below the 13.375 casing.

8. Logging, Coring and Testing Program

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

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 160 to 180 F is anticipated. No H2S is expected but monitors will be in place to detect any H2S occurrences. Should these circumstances be encountered the operator and drilling contractor are prepared to take all necessary steps to ensure safety of all personnel and environment. Lost circulation could occur but is not expected to be a serious problem in this area and hole seepage will be compensated for by additions of small amounts of LCM in the drilling fluid. The maximum anticipated bottom hole pressure for this well is 5346 psi.

10. Anticipated Starting Date and Duration of Operations

Anticipated spud date will be after DI 1A drilling is completed and BLM approval. Move in operations and drilling is expected to take 40 days.

James Ranch Unit DI 1 702H

Projected TD: 20639' MD / 9519' TVD SHL: 1426' FNL & 1266' FEL . Section 21, T22S, R30E BHL: 1320' FSL & 2590' FWL, Section 23, T225, R30E Eddy County, NM

Casing Design

The surface fresh water sands will be protected by setting 13.375 inch casing @ 529' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 9.625 inch casing at 3384' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 7.625 inch casing at 9550' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 20639 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9050 feet) per Potash regulations.

Hole Size	Depth	OD Csg	Weight	Grade	Collar	New/Used	SF Burst	SF Collapse	SF Tension
17.5	0' - 529'	13.375	54.5	J-55	BTC	New	2.52	4.72	29.59
12.25	0' - 3384'	9.625	40	J-55	втс	New	1.38	2.34	4.65
8.75	0' - 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.91	2.95	1.97
8.75	3484' - 9550'	7.625	29.7	HC L-80	Flush Joint	New	2.12	2.61	2.25
6.75	0' - 9450'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.74	2.38
6.75	9450' - 10150'	5.5	23	RY P-110	Semi-Flush	New	1,16	2.55	6.81
6.75	10150' - 20639'	5	18	RY P-110	Semi-Premium	New	1.12	2.52	7.96

- XTO requests the option to utilize a spudder rig (Atlas Copco RD20 or Equivalent) to set and cement surface casing per this Sundry
- XTO requests to not utilize centralizers in the curve and lateral
- 13.375 Collapse analyzed using 50% evacuation based on regional experience.
- · 7.625 Collapse analyzed using 50% evacuation based on regional experience.
- · 7.625 Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35
- Test on Casing will be limited to 70% burst of the casing or 1500 psi, whichever is less
- Request to use 5" BTC Float equipment for the the production casing

WELLHEAD:

Permanent Wellhead – Multibowl System

A. Starting Head: 13-5/8" 10M top flange x 13-3/8" SOW bottom

B. Tubing Head: 13-5/8" 10M bottom flange x 7-1/16" 15M top flange

- · Wellhead will be installed by manufacturer's representatives.
- · Manufacturer will monitor welding process to ensure appropriate temperature of seal.
- · Operator will test the 7-5/8" casing per BLM Onshore Order 2
- $\cdot \ Wellhead \ Manufacturer \ representative \ will \ not \ be \ present \ for \ BOP \ test \ plug \ installation$

Cement Program

Surface Casing:

Lead: 170 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water) Tail: 300 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr =

250 psi

24 hr = 500 psi

Two additional 1" top out jobs will be attempted after the surface cement job. If the top of cement is not affected by the two top out jobs, ~10-20 ppb gravel will be added on the backside of the 1" to attempt to get cement to surface,

1st Intermediate Casing:

Lead: 1380 sxs Class C (mixed at 12.9 ppg, 1.39 ft3/sx, 10.13 gal/sx water) Tail: 130 sxs Class C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr =

900 psi

24 hr = 1500 psi

2nd Intermediate Casing:

Optional Lead: 320 sxs Class C (mixed at 10.5 ppg, 2.77 ft3/sx, 15.59 gal/sx water) TOC: Surface

Tail: 320 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6021'

Compressives: 12-hr =

900 psi

24 hr = 1150 psi

Lead: 0 sxs Class C (mixed at 12.9 ppg, 2.16 ft3/sx, 9.61 gal/sx water) Tail: 680 sxs Class C (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

Top of Cement: Surface

Compressives: 12-hr =

900 psi

24 hr = 1150 psi

TOC: Surface

XTO requests to pump a two stage cement job on the 7-5/8" intermediate casing string with the first stage being pumped conventionally with the calculated top of cement at the Brush Canyon (6021') 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.

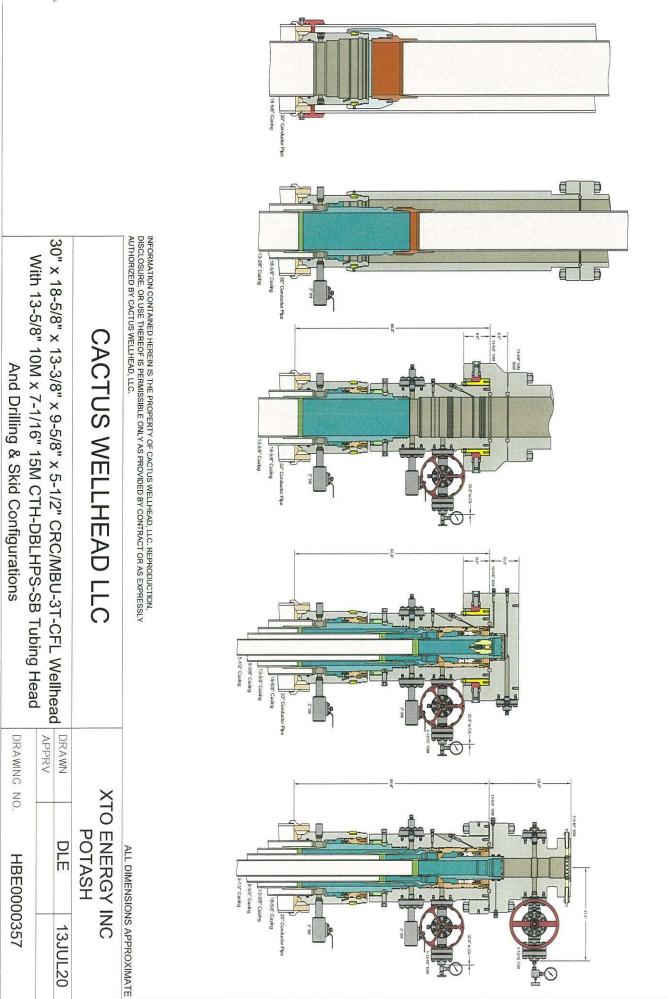
Production Casing:

Lead: 30 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) TopTOC: 9050'
Tail: 1030 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) TcTOC: 9900'
Compressives: 12-hr = 1375 psi 24 hr = 2285psi

Mud Circulation Program

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 529'	17.5	FW/Native	8.7-9.2	35-40	NC
529' - 3384'	12.25	Brine	10.4-10.9	30-32	NC
3384' to 9550'	8.75	FW / Cut Brine	10-10.5	30-32	NC
9550' to 20639'	6.75	ОВМ	10.8-11.3	29-32	NC

Spud with fresh water/native mud. Drill out from under 13-3/8" surface casing with brine solution. A 9.8 ppg -10.2 ppg brine mud will be used while drilling through the salt formation. Use fibrous materials as needed to control seepage and lost circulation. Pump viscous sweeps as needed for hole cleaning. Pump speed will be recorded on a daily drilling report after mudding up. A Pason or Totco will be used to detect changes in loss or gain of mud volume. A mud test will be performed every 24 hours to determine: density, viscosity, strength, filtration and pH as necessary. Use available solids controls equipment to help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system.



James Ranch JRU DI 1 702H

Well Plan Report - JRU DI 1 702H

 Measured Depth:
 20638.85 ft
 Site:

 TVD RKB:
 9515.00 ft
 Slot:

Location

Cartographic New Mexico East -Reference **NAD 27** System: 502581.84 ft Northing: 639578.06 ft Easting: RKB: 3193,00 ft Ground Level: 3163,00 ft Grid North Reference: Convergence 0.24 Deg Angle:

Plan Sections	JF	RU DI 1 702H							
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	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
1300.00	3.00	145.00	1299.86	-6.43	4.50	1.00	0.00	1.00	
1500.00	3.00	145.00	1499.59	-15,01	10.51	0.00	0.00	0.00	
1800.00	0.00	0.00	1799.45	-21.44	15.01	-1.00	0.00	1.00	
4700.55	0.00	0.00	4700.00	-21.44	15.01	0.00	0.00	0.00	
6566.97	37.33	211.09	6437.16	-523,95	-287.98	2.00	0.00	2.00	
9644.57	37.33	211.09	8884.38	-2122.12	-1251.60	0.00	0.00	0.00	
10727.64	90.00	89.89	9515.00	-2532.44	-706.86	4.86	-11.19	10.00	FTP 11
20638.85	90.00	89.89	9515.00	-2513.54	9204.34	0.00	0.00	0.00	BHL 11

Position U	ncertainty	JI	RU DI 170	2H										
Measured			TVD	Highside		Lateral		Vertical		Magnitude	Semi- major	Semi- minor	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	2,297	0.000	0.000	0.000	0.000	0.000	SDI_Keeper_ADK (2)
100.000	0.000	0.000	100.000	0.209	0.000	0.209	0,000	2,299	0.000	0.000	0,209	0.209	0.000	SDI_Keeper_ADK (2)
200.000	0.000	0.000	200.000	0.419	0.000	0.419	0.000	2.307	0.000	0.000	0.419	0.419	0.000	SDI_Keeper_ADh (2)
300.000	0.000	0.000	300,000	0.628	0.000	0,628	0.000	2.321	0.000	0.000	0.628	0.628	0,000	SDI_Keeper_ADK (2)
400.000	0.000	0.000	400.000	0.838	0.000	0,838	0.000	2.340	0.000	0.000	0.838	0.838	0.000	SDI_Keeper_ADI (2)
500.000	0.000	0.000	500,000	1.047	0.000	1.047	0.000	2.364	0.000	0.000	1.047	1.047	0.000	SDI_Keeper_ADK (2)
600.000	0.000	0.000	600.000	1.257	0.000	1.257	0.000	2.394	0.000	0.000	1.257	1.257	0.000	SDI_Keeper_ADk (2)
700.000	0.000	0.000	700.000	1.466	0.000	1.466	0.000	2.428	0.000	0.000	1.466	1.466	0.000	SDI_Keeper_ADK (2)
800.000	0.000	0.000	800.000	1.676	0.000	1.676	0.000	2.467	0.000	0.000	1.676	1.676	0.000	SDI_Keeper_ADK (2)
900.000	0.000	0.000	900,000	1,885	0.000	1.885	0.000	2.511	0.000	0.000	1.885	1.885	0.000	

														SDI_Keeper_ADK (2)	
1000,000	0.000	0.000	1000,000	2.094	0.000	2.094	0.000	2.560	0.000	0.000	2.094	2.094	0.000	SDI_Keeper_ADK (2)	
1100.000	1.000	145.000	1099,995	2.304	0.000	2.304	-0.000	2.613	0.000	0.000	2.304	2.304	45.000	SDI_Keeper_ADK (2)	
1200.000	2.000	145.000	1199,959	2.513	0.000	2.513	-0.000	2.669	0.000	0.000	2.514	2.513	55,000	SDI_Keeper_ADK (2)	
1300.000	3.000	145.000	1299,863	2.721	0.000	2.723	-0.000	2.729	0.000	0.000	2.725	2.723	55.000	SDI_Keeper_ADK (2)	
1400,000	3.000	145.000	1399.726	2.930	0.000	2.934	-0.000	2.794	0.000	0.000	2,934	2.934	55,000	SDI_Keeper_ADK (2)	
1500.000	3.000	145.000	1499.589	3.139	0.000	3.145	-0.000	2.863	0.000	0.000	3.145	3.143	-35,000	SDI_Keeper_ADK (2)	
1600.000	2.000	145.000	1599,492	3,350	0.000	3.356	-0.000	2.937	0.000	0.000	3,356	3.352	-35,000	SDI_Keeper_ADK (2)	
1700.000	1.000	145.000	1699.457	3.560	0.000	3.566	-0.000	3.015	0.000	0.000	3.566	3.560	-35.000	SDI_Keeper_ADK (2)	
1800,000	0.000	0.000	1799,452	3,771	0.000	3.774	0.000	3.095	0.000	0.000	3.776	3.769	-35.000	SDI_Keeper_ADK (2)	
1900.000	0.000	0.000	1899.452	3.981	0.000	3.983	0.000	3.179	0.000	0.000	3.985	3.979	-35,000	SDI_Keeper_ADK (2)	
2000,000	0.000	0.000	1999.452	4.190	0.000	4.192	0.000	3.265	0.000	0.000	4.194	4.188	-35.000	SDI_Keeper_ADK (2)	
2100.000	0.000	0.000	2099.452	4.399	0.000	4.401	0.000	3.355	0.000	0.000	4.403	4.397	-35,000	SDI_Keeper_ADK (2)	
2200.000	0,000	0.000	2199,452	4.608	0.000	4.610	0.000	3,448	0.000	0.000	4.612	4.607	-35,000	SDI_Keeper_ADK (2)	
2300.000	0,000	0,000	2299,452	4.818	0.000	4.820	0.000	3.544	0.000	0.000	4.821	4.816	-35,000	SDI_Keeper_ADK (2)	
2400.000	0.000	0.000	2399,452	5.027	0.000	5,029	0.000	3.643	0,000	0.000	5,031	5.025	-35,000	SDI_Keeper_ADK (2)	
2500.000	0.000	0.000	2499,452	5.236	0.000	5.238	0.000	3.744	0.000	0.000	5.240	5.235	-35.000	SDI_Keeper_ADK (2)	
2600,000	0.000	0.000	2599,452	5.446	0.000	5,447	0.000	3,849	0,000	0.000	5.449	5.444	-35.000	SDI_Keeper_ADK (2)	
2700.000	0.000	0.000	2699,452	5,655	0.000	5,657	0,000	3,956	0.000	0.000	5.658	5.654	-35.000	SDI_Keeper_ADK (2)	
2800,000	0.000	0.000	2799,452	5.865	0.000	5,866	0.000	4.066	0.000	0,000	5,868	5,863	-35,000	SDI_Keeper_ADK (2)	
2900.000	0.000	0.000	2899,452	6.074	0.000	6.075	0.000	4.179	0.000	0.000	6.077	6,072	-35,000	SDI_Keeper_ADK (2)	
3000.000	0.000	0.000	2999.452	6.283	0.000	6,285	0.000	4.294	0.000	0.000	6,286	6,282	-35,000	SDI_Keeper_ADK (2)	
3100.000	0.000	0.000	3099.452	6.493	0.000	6.494	0.000	4.413	0.000	0.000	6.495	6.491	-35.000	SDI_Keeper_ADK (2)	
3200,000	0.000	0.000	3199.452	6.702	0.000	6.703	0.000	4.533	0.000	0.000	6.705	6.701	-35,000	SDI_Keeper_ADK (2)	
3300.000	0.000	0.000	3299.452	6,911	0.000	6.913	0.000	4.657	0.000	0.000	6.914	6.910	-35.000	SDI_Keeper_ADK (2)	
3400.000	0.000	0.000	3399,452	7.121	0.000	7.122	0.000	4.783	0.000	0.000	7.123	7.119	-35,000	SDI_Keeper_ADK (2)	
3500.000	0.000	0.000	3499.452	7.330	0.000	7.331	0.000	4.911	0.000	0.000	7.333	7.329	-35,000	SDI_Keeper_ADK (2)	
3600,000	0.000	0.000	3599,452	7.540	0.000	7.541	0.000	5.043	0.000	0.000	7.542	7.538	-35.000	SDI_Keeper_ADK (2)	
3700.000	0.000	0.000	3699.452	7.749	0.000	7.750	0.000	5.176	0.000	0.000	7.751	7.748	-35.000	SDI_Keeper_ADK (2)	
3800.000	0.000	0.000	3799,452	7.958	0.000	7.960	0.000	5.313	0.000	0.000	7.961	7.957	-35,000	SDI_Keeper_ADK (2)	
3900.000	0.000	0.000	3899,452	8.168	0.000	8.169	0.000	5.452	0.000	0.000	8.170	8.167	-35.000	SDI_Keeper_ADK (2)	
4000.000	0.000	0.000	3999.452	8.377	0.000	8.378	0.000	5,593	0.000	0.000	8,380	8.376	-35.000	SDI_Keeper_ADK (2)	
4100.000	0.000	0.000	4099.452	8.587	0.000	8.588	0.000	5,737	0.000	0.000	8,589	8,585	-35,000	SDI_Keeper_ADK (2)	

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4200.000	0.000	0.000	4199,452	8.796	0.000	8.797	0.000	5.884	0.000	0.000	8.798	8.795	-35,000	SDI_Keeper_ADK (2)
4300.000	0.000	0.000	4299,452	9.005	0.000	9.007	0.000	6.033	0.000	0.000	9.008	9.004	-35.000	SDI_Keeper_ADK (2)
4400.000	0.000	0.000	4399.452	9.215	0.000	9,216	0.000	6,185	0.000	0.000	9,217	9.214	-35.000	SDI_Keeper_ADK (2)
4500.000	0.000	0.000	4499.452	9.424	0.000	9.425	0.000	6.340	0.000	0.000	9.426	9.423	-35.000	SDI_Keeper_ADK (2)
4600,000	0.000	0.000	4599,452	9.535	0.000	9,536	0.000	6.497	0.000	0.000	9.542	9.530	-42,478	MWD+IFR1+MS
4700,548	0.000	0.000	4700.000	9.568	0.000	9.569	0.000	6.658	0.000	0.000	9.594	9.543	-44.380	MWD+IFR1+MS
4800.000	1.989	211.088	4799.432	9.642	-0.000	9.574	0.000	6.819	0.000	0.000	9.650	9.569	-44.312	MWD+IFR1+MS
4900,000	3,989	211,088	4899,291	9.947	-0.000	9,630	0.000	6.984	0,000	0,000	9,981	9,606	-44,441	MWD+IFR1+MS
5000,000	5.989	211.088	4998,907	10.250	-0.000	9,700	0.000	7.152	0.000	0.000	10,314	9,658	-44.456	MWD+IFR1+MS
5100,000	7.989	211.088	5098.159	10.551	-0.000	9.782	0.000	7.324	0.000	0.000	10.648	9.722	-44.457	MWD+IFR1+MS
5200.000	9,989	211.088	5196,925	10.849	-0.000	9.878	0.000	7.501	0.000	0.000	10.983	9.800	-44.451	MWD+IFR1+MS
5300.000	11.989	211.088	5295.087	11.146	-0.000	9.987	0.000	7.682	0.000	0.000	11.317	9.892	-44.440	MWD+IFR1+MS
5400,000	13.989	211.088	5392,523	11,442	-0.000	10,108	0.000	7.870	0.000	0.000	11.652	9.997	-44.424	MWD+IFR1+MS
5500.000	15.989	211.088	5489,116	11.736	-0.000	10.243	0.000	8.064	0.000	0.000	11.987	10,116	-44.402	MWD+IFR1+MS
5600.000	17.989		5584.747	12.031		10.392	0.000		0.000		12.321		-44,375	MWD+IFR1+MS
5700.000	19.989		5679.300	12.327		10.554	0.000		0.000		12.656			MWD+IFR1+MS
5800.000	21.989		5772.661	12.624		10,730	0.000	8,691			12,990			MWD+IFR1+MS
5900.000	23.989		5864,714	12.922		10,920	0.000	8,917			13,325			MWD+IFR1+MS
6000.000	25.989		5955.348	13.223		11.124	0.000	9,152			13.660			MWD+IFR1+MS
6100.000	27.989		6044.453	13,527		11.343	0.000	9.398		100,000,000	13.995			MWD+IFR1+MS
	29.989		6131,920	13.835			0.000	9,655			14.329			MWD+IFR1+MS
6200,000	SS 2000 - 500 000 000 000					11.576								THE SECRETARY OF THE PROPERTY
6300,000	31,989		6217.642	14.147		11.824	0.000	9,923			14.664			MWD+IFR1+MS
6400.000	33.989		6301.515	14.463		12.087	0.000	10.204			14.998			MWD+IFR1+MS
6500,000	35,989		6383.437	14.785		12.365	0.000	10.498			15.331			MWD+IFR1+MS
6566,974	37,329		6437,163	14.938		12,554	0,000	10.668			15,511			MWD+IFR1+MS
6600,000	37,329		6463.424	15.028		12,648	0.000	10.742			15.583			MWD+IFR1+MS
6700.000	37.329		6542.941	15.308		12.947	0.000	10.979			15.803			MWD+IFR1+MS
6800.000	37.329		6622,459	15.610		13.265	0.000	11.227			16.041			MWD+IFR1+MS
6900.000	37.329	211.088	6701.976	15.925	-0.000	13.595	0.000	11.484	0.000		16.288			MWD+IFR1+MS
7000.000	37.329	211.088	6781.493	16.253	-0.000	13.935	0.000	11.748			16.545			MWD+IFR1+MS
7100,000	37.329	211.088	6861.010	16.594	-0.000	14.284	0.000	12.020		0.000	16.812	14.031		MWD+IFR1+MS
7200.000	37.329		6940.527	16.946	-0.000	14.642	0.000	12.299	0.000	0.000	17.087	14.387	-41.748	MWD+IFR1+MS
7300.000	37,329	211.088	7020.044	17.309	-0.000	15.008	0.000	12.584	0.000	0.000	17.371	14.752	-41.367	MWD+IFR1+MS
7400.000	37.329	211.088	7099.562	17.682	-0.000	15,382	0.000	12.875	0.000	0.000	17.663	15.123	-40.967	MWD+IFR1+MS
7500.000	37,329	211.088	7179,079	18.065	-0.000	15.763	0.000	13,173	0.000	0.000	17,963	15,502	-40.548	MWD+IFR1+MS
7600.000	37.329	211.088	7258,596	18.457	-0,000	16.151	0.000	13.476	0.000	0.000	18.270	15.887	-40.108	MWD+IFR1+MS
7700.000	37,329	211.088	7338.113	18.857	-0.000	16.544	0.000	13.784	0.000	0.000	18.584	16.277	-39.646	MWD+IFR1+MS
7800.000	37.329	211.088	7417,630	19,265	-0.000	16,943	0.000	14.096	0.000	0.000	18.905	16.674	-39.161	MWD+IFR1+MS
7900,000	37,329	211.088	7497.148	19.681	-0.000	17.348	0.000	14.414	0.000	0.000	19,233	17.075	-38.651	MWD+IFR1+MS
8000.000	37.329	211.088	7576,665	20.103	-0,000	17.757	0.000	14.736	0.000	0.000	19.567	17.481	-38,115	MWD+IFR1+MS
8100.000	37.329	211.088	7656.182	20.532	-0.000	18.171	0.000	15.062	0.000	0.000	19.907	17.891	-37.552	MWD+IFR1+MS
8200.000	37.329	211.088	7735.699	20.967	-0.000	18.589	0.000	15.393	0.000	0.000	20.253	18.305	-36,960	MWD+IFR1+MS
8300,000	37,329	211.088	7815,216	21.407	-0.000	19.012	0.000	15.727	0.000	0.000	20,605	18.723	-36.337	MWD+IFR1+MS
8400.000	37,329	211.088	7894,733	21.853	-0.000	19.438	0.000	16.065	0.000	0.000	20.962	19.144	-35,683	MWD+IFR1+MS
8500.000	37.329	211.088	7974.251	22.305	-0.000	19.867	0.000	16.406	0.000	0.000	21.324	19.568	-34.995	MWD+IFR1+MS
8600.000	37.329	211.088	8053.768	22.760	-0.000	20,300	0.000	16.751	0.000	0.000	21.691	19.995	-34.272	MWD+IFR1+MS
8700.000	37.329	211.088	8133,285	23,221	-0.000	20.736	0.000	17.099	0.000	0.000	22.062	20.424	-33,512	MWD+IFR1+MS
8800,000	37.329		8212,802					17.449			22,439		-32,714	MWD+IFR1+MS
8900.000	37.329		8292.319	24.154			0.000	17.803			22.820			MWD+IFR1+MS
9000.000	37.329		8371.837	24.626		22.059	0.000	18.160			23.205			MWD+IFR1+MS
9100.000	37,329	211.088		25,102			0.000	18,519			23,595			MWD+IFR1+MS
		55.00			-0.				W					

9200,000	37.329	211 088	8530.871	25 581	-0.000	22,954	0.000	18.881	0.000	0.000	23.988	22 605	-29 116	MWD+IFR1+MS
9300,000	37.329		8610,388			23,405	0.000	19.246			24,386			MWD+IFR1+MS
9400,000	37.329		8689.905			23,857		19,613			24.787			MWD+IFR1+MS
9500,000	37.329		8769.422			24,312		19.982			25.193			MWD+IFR1+MS
2010/2010/2010/2010/2010/2010/2010/2010			8848.940			24.768	0.000	20.354			25.602			MWD+IFR1+MS
9600,000	37.329							20.519			25.782			MWD+IFR1+MS
9644.571	37.329		8884,381			24.969			CONTRACTOR CONTRACTOR					
9700,000	35,228		8929,093	1000000000000	N/A	25,447		20,729			26.050			MWD+IFR1+MS
9800.000	33.219		9011.976			27.588		21.131			27.761			MWD+IFR1+MS
9900.000	33.810		9095,562			30,350		21.492			30.359			MWD+IFR1+MS
10000,000	36,875		9177,311	26,910	1000000000000	32.273		21.868			32,560			MWD+IFR1+MS
10100.000	41,867		9254.740	26.670	0.000	33,560		22.417			34.152		101205-00100-001	MWD+IFR1+MS
10200,000	48,178		9325,496	26.474		34,452		23.250			35,225			MWD+IFR1+MS
10300.000	55.342		9387.428	26.387		35,100		24.415			35.964			MWD+IFR1+MS
10400.000	63.047		9438.655	26.624	0.000	35,583		25.893			36,515			MWD+IFR1+MS
10500.000	71.090	102.803	9477,621	27.423	0.000	35,938		27.613	0.000		36,973		an electronistics	MWD+IFR1+MS
10600.000	79.337	96.946	9503,142	28.934	0.000	36,181	-0.000	29.478	0.000	0.000	37.400	31.541	125,069	MWD+IFR1+MS
10700.000	87.686	91.401	9514.442	31.170	0.000	36.312	-0.000	31.382	0.000	0.000	37.843	31.715	122.466	MWD+IFR1+MS
10727.635	90.000	89.891	9515.000	31.538	-0.000	36.185	0.000	31.538	0.000	0.000	37,880	31.684	122.548	MWD+IFR1+MS
10800,000	90,000	89.891	9515,000	31.847	-0.000	36,184	0.000	31.847	0.000	0.000	37.948	31,593	122.849	MWD+IFR1+MS
10900.000	90,000	89.891	9515,000	32.262	-0.000	36,190	0.000	32,262	0.000	0.000	38,048	31.472	123,206	MWD+IFR1+MS
11000.000	90.000	89.891	9515.000	32.693	-0.000	36.216	0.000	32.693	0.000	0.000	38.161	31.358	123,464	MWD+IFR1+MS
11100.000	90.000	89.891	9515.000	33.136	-0.000	36.261	0.000	33,136	0.000	0.000	38.286	31.250	123.637	MWD+IFR1+MS
11200.000	90,000	89,891	9515,000	33,592	-0.000	36,323	0.000	33.592	0.000	0.000	38,423	31.149	123,732	MWD+IFR1+MS
11300.000	90,000	89,891	9515,000	34.060	-0.000	36,404	0.000	34.060	0.000	0.000	38,572	31,056	123.758	MWD+IFR1+MS
11400.000	90.000	89.891	9515.000	34.540	-0.000	36.503	0.000	34.540	0.000	0.000	38.732	30,969	123.719	MWD+IFR1+MS
11500.000	90.000	89.891	9515.000	35,030	-0.000	36.620	0.000	35.030	0.000	0.000	38.904	30.890	123.623	MWD+IFR1+MS
11600.000	90.000	89.891	9515.000	35.531	-0.000	36.755	0.000	35.531	0.000	0.000	39.087	30.817	123.476	MWD+IFR1+MS
11700.000	90.000	89.891	9515,000	36.042	-0.000	36,907	0.000	36.042	0.000	0.000	39,281	30.752	123,281	MWD+IFR1+MS
11800.000	90.000	89.891	9515,000	36,563	-0.000	37.076	0.000	36.563	0.000	0.000	39,487	30,694	123,046	MWD+IFR1+MS
11900.000	90.000	89.891	9515.000	37.093	-0.000	37.263	0.000	37.093	0.000	0.000	39.704	30.642	122.773	MWD+IFR1+MS
12000.000	90.000	89.891	9515.000	37.632	-0.000	37.466	0.000	37.632	0.000	0.000	39.932	30.597	122.467	MWD+IFR1+MS
12100.000	90,000	89.891	9515.000	38,180	-0.000	37,686	0.000	38.180	0.000	0.000	40.172	30.558	122,131	MWD+IFR1+MS
12200,000	90,000	89.891	9515.000	38.735	-0.000	37.922	0.000	38,735	0.000	0.000	40.422	30.526	121.770	MWD+IFR1+MS
12300.000	90,000	89,891	9515.000	39.299	-0.000	38,175	0.000	39.299	0.000	0.000	40,684	30,499	121,387	MWD+IFR1+MS
12400.000	90.000	89.891	9515.000	39.870	-0.000	38,443	0.000	39.870	0.000	0.000	40.957	30.478	120.984	MWD+IFR1+MS
12500.000	90,000	89,891	9515.000	40.448	-0,000	38.726	0.000	40.448	0.000	0.000	41.241	30,462	120,565	MWD+IFR1+MS
12600.000	90.000	89.891	9515.000	41.033	-0,000	39.024	0,000	41.033	0.000	0.000	41.537	30.451	120,132	MWD+IFR1+MS
12700.000	90.000	89.891	9515.000	41.625	-0.000	39.337	0.000	41.625	0.000	0.000	41.843	30.445	119.687	MWD+IFR1+MS
12800.000	90.000	89,891	9515.000	42.223	-0.000	39.664	0.000	42.223	0.000	0.000	42,161	30.444	119.234	MWD+IFR1+MS
12900.000	90.000	89.891	9515,000	42.827	-0.000	40.006	0.000	42.827	0.000	0.000	42.490	30.447	118.773	MWD+IFR1+MS
13000.000	90.000	89.891	9515,000	43.436	-0.000	40,361	0.000	43.436	0.000	0.000	42.829	30.454	118,307	MWD+IFR1+MS
13100.000	90.000	89.891	9515,000	44.052	-0,000	40.729	0.000	44.052	0.000	0.000	43,180	30.465	117.837	MWD+IFR1+MS
13200.000	90.000	89.891	9515.000	44.672	-0.000	41.110	0.000	44.672	0.000	0.000	43.541	30.480	117.366	MWD+IFR1+MS
13300.000	90.000	89.891	9515.000	45.298	-0.000	41.503	0.000	45.298	0.000	0.000	43.912	30.498	116,893	MWD+IFR1+MS
13400.000	90,000	89.891	9515,000	45.929	-0.000	41.909	0.000	45.929	0.000	0.000	44.295	30.519	116,422	MWD+IFR1+MS
13500.000	90,000		9515.000	46.564			0.000	46,564						MWD+IFR1+MS
13600.000	90,000		9515.000	47.204			0.000	47.204						MWD+IFR1+MS
13700.000	90.000		9515,000	47.848			0.000	47.848						MWD+IFR1+MS
13800.000	90.000		9515.000	48.496			0.000	48.496						MWD+IFR1+MS
13900.000	90,000		9515,000	49.148			0.000	49.148						MWD+IFR1+MS
14000.000	90.000		9515,000	49.804			0.000	49.804						MWD+IFR1+MS
14100.000	90.000		9515.000	50.464			0.000	50.464						MWD+IFR1+MS
14200.000	90.000		9515.000	51.127			0.000	51.127						MWD+IFR1+MS
00000 00000000000000000000000000000000														
14300.000	90,000	09,891	9515,000	51.794	-0.000	46.053	0,000	51.794	0.000	0,000	40,102	50,820	112,372	MWD+IFR1+MS

(IE)														
14400,000	90.000	89.891	9515,000	52,463	-0.000	46,563	0.000	52,463	0.000	0.000	48,660	30,863	111,955	MWD+IFR1+MS
14500.000	90.000	89.891	9515.000	53.137	-0.000	47.081	0.000	53.137	0.000	0.000	49.147	30,907	111.546	MWD+IFR1+MS
14600.000	90.000	89,891	9515,000	53.813	-0.000	47.607	0.000	53.813	0.000	0.000	49.642	30.954	111.145	MWD+IFR1+MS
14700,000	90,000	89,891	9515,000	54.492	-0,000	48,141	0.000	54.492	0.000	0.000	50.146	31.001	110,753	MWD+IFR1+MS
14800.000	90,000	89,891	9515,000	55.173	-0.000	48,683	0.000	55.173	0.000	0.000	50,657	31.050	110,369	MWD+IFR1+MS
14900.000	90.000	89.891	9515.000	55.858	-0.000	49.233	0.000	55.858	0.000	0.000	51,176	31.100	109,993	MWD+IFR1+MS
15000.000	90.000	89.891	9515.000	56.545	-0.000	49.790	0.000	56,545	0.000	0.000	51.703	31.151	109.626	MWD+IFR1+MS
15100.000	90,000	89,891	9515,000	57.235	-0.000	50,354	0.000	57.235	0.000	0.000	52,237	31.204	109,267	MWD+IFR1+MS
15200,000	90,000	89,891	9515,000	57.927	-0.000	50,925	0.000	57.927	0.000	0.000	52.778	31,257	108.917	MWD+IFR1+MS
15300.000	90.000	89.891	9515.000	58.621	-0.000	51.502	0.000	58.621	0.000	0.000	53.326	31.312	108.575	MWD+IFR1+MS
15400.000	90.000	89.891	9515.000	59.318	-0.000	52.086	0.000	59.318	0.000	0.000	53.881	31.367	108.242	MWD+IFR1+MS
15500.000	90,000	89.891	9515.000	60.016	-0.000	52,676	0.000	60.016	0.000	0.000	54.443	31.423	107.916	MWD+IFR1+MS
15600.000	90,000	89.891	9515.000	60.717	-0.000	53.272	0.000	60.717	0.000	0.000	55,011	31.481	107.599	MWD+IFR1+MS
15700.000	90,000	89,891	9515,000	61,420	-0,000	53,874	0.000	61.420	0,000	0.000	55,585	31.539	107.289	MWD+IFR1+MS
15800.000	90.000	89.891	9515.000	62.125	-0.000	54.481	0.000	62.125	0.000	0.000	56.165	31.598	106,988	MWD+IFR1+MS
15900.000	90.000	89.891	9515.000	62.832	-0.000	55.094	0.000	62.832	0.000	0.000	56.752	31.658	106.694	MWD+IFR1+MS
16000,000	90,000	89.891	9515.000	63.541	-0.000	55,712	0.000	63,541	0.000	0.000	57,343	31.718	106.407	MWD+IFR1+MS
16100,000	90,000	89.891	9515,000	64.251	-0.000	56.335	0.000	64.251	0.000	0.000	57,941	31.780	106,128	MWD+IFR1+MS
16200.000	90.000	89.891	9515.000	64.963	-0.000	56,963	0.000	64.963	0.000	0.000	58.543	31.842	105.856	MWD+IFR1+MS
16300.000	90.000	89.891	9515.000	65.677	-0.000	57.595	0.000	65.677	0.000	0.000	59.151	31,905	105.590	MWD+IFR1+MS
16400.000	90.000	89.891	9515,000	66.392	-0.000	58.233	0.000	66.392	0.000	0.000	59.764	31.969	105,332	MWD+IFR1+MS
16500.000	90.000	89,891	9515.000	67.109	-0.000	58.874	0.000	67.109	0.000	0.000	60.382	32.033	105.080	MWD+IFR1+MS
16600.000	90.000	89.891	9515.000	67.828	-0.000	59,520	0.000	67.828	0.000	0.000	61.005	32.099	104.835	MWD+IFR1+MS
16700,000	90.000	89.891	9515,000	68.547	-0.000	60.170	0.000	68.547	0.000	0.000	61.632	32.165	104.595	MWD+IFR1+MS
16800.000	90.000	89.891	9515.000	69.269	-0.000	60.824	0.000	69.269	0.000	0.000	62.264	32.231	104.362	MWD+IFR1+MS
16900.000	90.000	89,891	9515.000	69.991	-0.000	61.482	0.000	69,991	0.000	0.000	62,900	32,299	104.135	MWD+IFR1+MS
17000,000	90.000	89.891	9515,000	70.715	-0.000	62.143	0.000	70.715	0.000	0.000	63.540	32.367	103,914	MWD+IFR1+MS
17100.000	90.000	89.891	9515,000	71.441	-0.000	62.809	0.000	71.441	0.000	0.000	64.184	32.436	103.698	MWD+IFR1+MS
17200,000	90.000	89.891	9515,000	72.167	-0.000	63.477	0.000	72.167	0.000	0.000	64.833	32.505	103.488	MWD+IFR1+MS
17300,000	90,000	89.891	9515,000	72.895	-0,000	64.149	0.000	72,895	0.000	0.000	65,485	32.575	103.283	MWD+IFR1+MS
17400.000	90.000	89.891	9515,000	73.624	-0,000	64,825	0.000	73,624	0.000	0.000	66,141	32,646	103.083	MWD+IFR1+MS
17500.000	90.000	89.891	9515.000	74.354	-0.000	65.504	0.000	74.354	0.000	0.000	66.800	32.718	102.888	MWD+IFR1+MS
17600.000	90.000	89.891	9515.000	75.085	-0.000	66.185	0.000	75.085	0.000	0.000	67.463	32.790	102.697	MWD+IFR1+MS
17700,000	90.000	89.891	9515.000	75.817	-0.000	66,870	0.000	75.817	0.000	0.000	68,130	32,863	102,512	MWD+IFR1+MS
17800.000	90.000	89.891	9515,000	76.550	-0.000	67,558	0.000	76,550	0.000	0.000	68.799	32.936	102.331	MWD+IFR1+MS
17900.000	90.000	89.891	9515,000	77.285	-0.000	68,248	0.000	77.285	0.000	0.000	69,472	33.010	102.154	MWD+IFR1+MS
18000,000	90.000	89.891	9515.000	78.020	-0.000	68.942	0.000	78.020	0.000	0.000	70.149	33.085	101.982	MWD+IFR1+MS
18100.000	90,000	89.891	9515.000	78.756	-0.000	69.637	0.000	78.756	0.000	0,000	70.828	33.161	101.814	MWD+IFR1+MS
18200,000	90,000	89,891	9515.000	79,493	-0.000	70,336	0.000	79.493	0.000	0.000	71,510	33,237	101,650	MWD+IFR1+MS
18300.000	90,000	89.891 9	9515.000	80.231	-0.000	71.037	0.000	80,231	0.000	0.000	72.195	33.314	101.489	MWD+IFR1+MS
18400.000	90.000	89.891 9	9515.000	80.970	-0.000	71.740	0.000	80.970	0.000	0.000	72.882	33,391	101,333	MWD+IFR1+MS
18500.000	90.000	89.891 9	9515.000	81.710	-0.000	72.446	0.000	81.710	0.000	0.000	73.573	33.470	101.180	MWD+IFR1+MS
18600.000	90.000	89.891 9	9515.000	82.450	-0.000	73.154	0.000	82.450	0.000	0.000	74.266	33.548	101.031	MWD+IFR1+MS
18700,000	90,000	89.891 9	9515,000	83.192	-0.000	73,865	0.000	83,192	0.000	0.000	74.961	33,628	100.885	MWD+IFR1+MS
18800.000	90.000	89.891 9	9515.000	83.934	-0.000	74.577	0.000	83.934	0.000	0.000	75,659	33.708	100.742	MWD+IFR1+MS
18900.000	90.000	89.891 9	9515.000	84.677	-0.000	75.292	0.000	84.677	0.000	0.000	76,360	33.789	100,603	MWD+IFR1+MS
19000.000	90,000	89.891 9	9515,000	85,421	-0.000	76,008	0.000	85,421	0.000	0.000	77.063	33,870	100.467	MWD+IFR1+MS
19100.000	90,000	89.891 9	9515.000	86.165	-0.000	76.727	0.000	86.165	0.000	0.000	77.768	33,952	100,334	MWD+IFR1+MS
19200.000	90.000	89.891 9	9515,000	86.910	-0.000	77.447	0.000	86.910	0.000	0.000	78.475	34.035	100.204	MWD+IFR1+MS
19300,000	90,000	89.891 9	9515.000	87.656	-0.000	78.170	0.000	87.656	0.000	0.000	79.185	34.118	100.077	MWD+IFR1+MS
19400.000	90,000	89.891 9	9515,000	88.403	-0.000	78.894	0.000	88.403	0.000	0.000	79.896	34.202	99.952	MWD+IFR1+MS
19500,000	90,000	89.891 9	9515,000	89.150	-0.000	79.620	0.000	89.150	0.000	0.000	80.610	34.287	99,831	MWD+IFR1+MS
19600,000	90,000	89.891 9	9515,000	89.898	-0.000	80.348	0.000	89.898	0.000	0.000	81.325	34.372	99.712	MWD+IFR1+MS

19700.000	90.000	89.891	9515,000	90.646	-0.000	81.077	0.000	90.646	0.000	0.000	82.043	34.458	99,595	MWD+IFR1+MS
19800,000	90,000	89,891	9515,000	91.395	-0.000	81,808	0.000	91.395	0.000	0.000	82,762	34,544	99,481	MWD+IFR1+MS
19900.000	90.000	89,891	9515,000	92.145	-0.000	82.541	0.000	92,145	0.000	0.000	83,483	34.631	99.369	MWD+IFR1+MS
20000.000	90,000	89.891	9515,000	92.895	-0.000	83.275	0.000	92.895	0.000	0.000	84.206	34.719	99.260	MWD+IFR1+MS
20100.000	90.000	89.891	9515.000	93.646	-0.000	84.011	0.000	93.646	0.000	0.000	84.931	34.807	99.153	MWD+IFR1+MS
20200,000	90,000	89.891	9515,000	94.397	-0.000	84.748	0.000	94.397	0.000	0.000	85,658	34,896	99.048	MWD+IFR1+MS
20300,000	90,000	89.891	9515,000	95.149	-0.000	85.487	0.000	95.149	0.000	0.000	86,386	34.986	98,946	MWD+IFR1+MS
20400,000	90.000	89.891	9515.000	95.901	-0.000	86.227	0.000	95.901	0.000	0.000	87.115	35.076	98.845	MWD+IFR1+MS
20500.000	90.000	89.891	9515,000	96.654	-0.000	86.968	0.000	96.654	0.000	0.000	87.847	35.167	98.747	MWD+IFR1+MS
20600,000	90,000	89,891	9515,000	97.408	-0.000	87.711	0.000	97.408	0.000	0.000	88,579	35,259	98,650	MWD+IFR1+MS
20638,853	90.000	89.891	9515,000	97,700	-0.000	87.999	0.000	97.700	0.000	0.000	88.864	35.294	98,613	MWD+IFR1+MS

Plan Targets	JRU DI 1 702H				
	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 11	10727.63	500049.40	638871.20	6322,00	RECTANGLE
BHL 11	20638.85	500068,30	648782,40	6322.00	RECTANGLE

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.

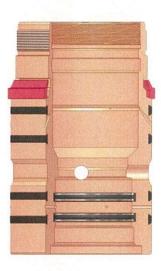
1. Cement Program

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

2. Offline Cementing Procedure

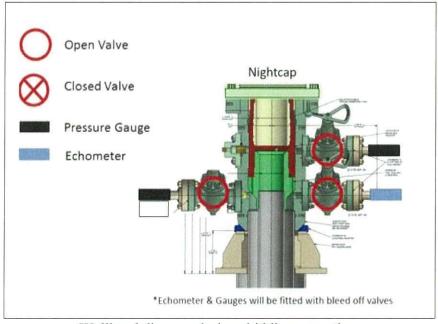
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

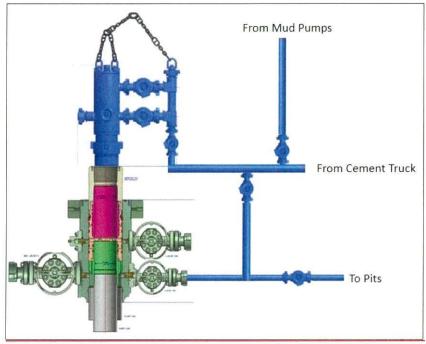
XTO Permian Operating, LLC Offline Cementing Variance Request



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.

Subject: 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 (OOGO) No. 2, 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. OOGO No. 2, Section I.D.2 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 OOGO No. 2, Section IV., XTO Energy submits this request for the variance.

Supporting Documentation

OOGO No. 2 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 OOGO No. 2 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.

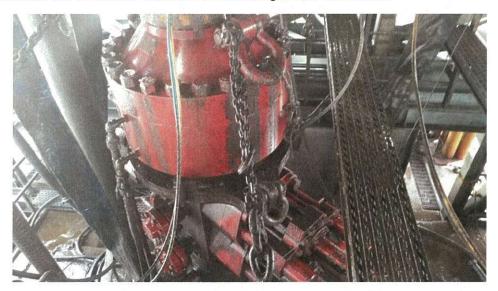


Figure 1: Winch System attached to BOP Stack



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. OOGO No. 2 recognizes 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-	e Test—High Pressure					
Component to be Pressure Tested	Pressure Test—Low 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 chokes*	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								
	during the evaluation period. The p	ressure shall not decrease below the						
	from one wellhead to another within when the integrity of a pressure sea	the 21 days, pressure testing is req	uired for pressure-containing an					

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.

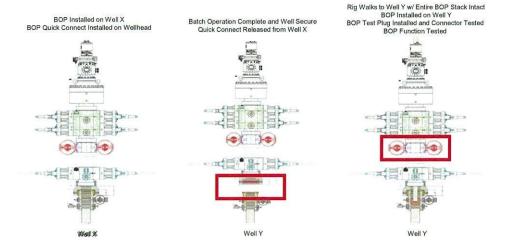
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that of OOGO No. 2 (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 OOGO No. 2.

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 guick 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



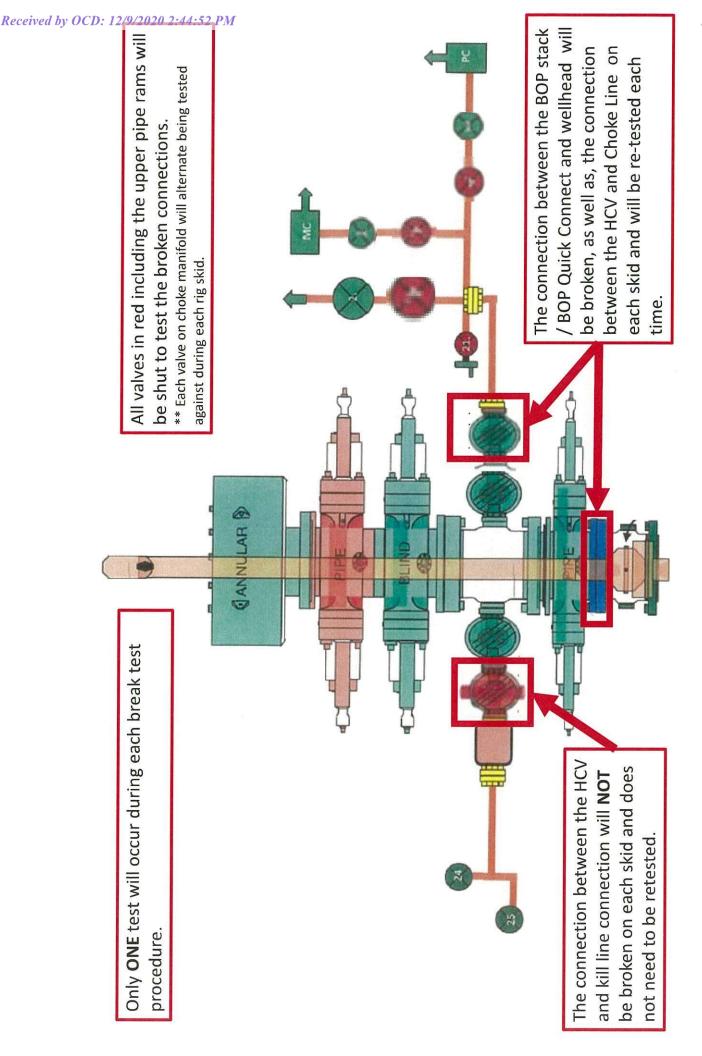
Summary

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.



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

CONDITIONS

Action 11622

CONDITIONS OF APPROVAL

Operator:		OGRID:	Action Number:	Action Type:
XTO PERMIAN O	PERATING LLC. 6401 HOLIDAY HILL ROAD	373075	11622	C-103A
BUILDING 5 MID	LAND, TX79707			

OCD Reviewer	Condition
ahvermersch	None