REC'D NMOCD Page 1 of 31

	1	uge	1	υj	
FORM APPROVE	D				

Form 3160-5	UNITED STATE	c	10/27	/2020	I FORM	APPROVED		
	PARTMENT OF THE I	NTERIOR			OMB N	Allottee or Tribe Name CA/Agreement, Name and/or No. and No. ANCH UNIT DI 1 BS2B-8E 216H No. 15462 Pool or Exploratory Area T BONE SPRING Parish, State OUNTY, NM OR OTHER DATA Other Change to Original A PD and approximate duration thereof. all pertinent markers and zones. must be filed within 30 days form 3160-4 must be filed once impleted and the operator has		
	UREAU OF LAND MANA NOTICES AND REPO		/ELLS		5. Lease Serial No. NMNM06808			
Do not use the abandoned we	is form for proposals to II. Use form 3160-3 (AP	drill or to r D) for such	e-enter an proposals.		6. If Indian, Allottee	or Tribe Name		
SUBMIT IN	TRIPLICATE - Other ins	tructions or	n page 2		7. If Unit or CA/Agre	ement, Name and/o	r No.	
1. Type of Well					8. Well Name and No. JAMES RANCH U		E 216H	
		KELLY KAF	RDOS		9. API Well No.			
XTO PERMIAN OPERATING		os@xtoenerg	y.com		30-015-45462			
3a. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707	G 5	3b. Phone N Ph: 432-6	lo. (include area code 20-4374	e)				
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description	i)			11. County or Parish,	State		
Sec 21 T22S R30E Mer NMP	SWNE 1512FNL 1580FE	∃L			EDDY COUNT	Y, NM		
	SENE 1426'FNL & 127	78'FEL						
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICA	ATE NATURE (OF NOTICE,	REPORT, OR OTH	HER DATA		
TYPE OF SUBMISSION			ТҮРЕ С	F ACTION				
■ Notice of Intent	☐ Acidize	□ De	epen	☐ Product	tion (Start/Resume)	■ Water Shut	-Off	
	☐ Alter Casing	□Ну	draulic Fracturing	☐ Reclam	ation	■ Well Integr	ity	
☐ Subsequent Report	□ Casing Repair	☐ Ne	w Construction	☐ Recomp			ainal Δ	
☐ Final Abandonment Notice	☐ Change Plans		ig and Abandon	100 Feb.0	arily Abandon		giliai A	
2	☐ Convert to Injection		ıg Back	☐ Water I				
13. Describe Proposed or Completed Op- If the proposal is to deepen direction: Attach the Bond under which the wor following completion of the involved testing has been completed. Final At determined that the site is ready for f	ally or recomplete horizontally, it will be performed or provide operations. If the operation re bandonment Notices must be fil	give subsurface the Bond No.	e locations and meas on file with BLM/BI ole completion or rec	ured and true ve A. Required sub completion in a	ertical depths of all pertir bsequent reports must be new interval, a Form 316	ent markers and zo filed within 30 day 0-4 must be filed o	nes. 's nce	
XTO Permian Operating, LLC	, requests permission to r	make the foll	owing changes t	o the original	APD:			
Change the well name from Ja	ames Ranch Unit DI 1 BS	2B-8E 216H	I to James Ranc	n Unit DI 1 70	01H.			
Change the SHL from 1512'FI	NL & 1586'FEL to 1426'F	NL & 1278'F	EL. *NO SURFA	CE DISTURI	BANCE*			
Change BHL from 20'FSL & 2	440'FWL to <mark>660'FSL & 25</mark>	590'FWL.						
Casing/Cement design per the	e attached drilling progran	n.						
XTO also requests the following	ng variances:						^	
Enc OK	10/22/20 CRU)	Sanga	ce 9000	I same CO/	1'5 10-2:	3-20	
14. I hereby certify that the foregoing is	true and correct. Electronic Submission #	531380 verifi						
	For XTO PERMI. Committed to AFMSS fo	AN OPERATI	NG, LLC, sent to	the Carlsbad				
Name (Printed/Typed) KELLY KA		n processing			ORDINATOR			
	\							
Signature (Electronic S	Supmission)		Date 09/24/2	2020				
	THIS SPACE FO	OR FEDER	AL OR STATE	OFFICE U	SE			
M			1.0	1. DHR		2	3 oct	
Approved By			Title A	1-1-03		Date	000	
Conditions of approval, if any, are attached certify that the applicant holds legal or equivalent would entitle the applicant to conduct the conduction of t	itable title to those rights in the	not warrant or subject lease	Office LL	NMPOZ	TO CARU	BAD		

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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 <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

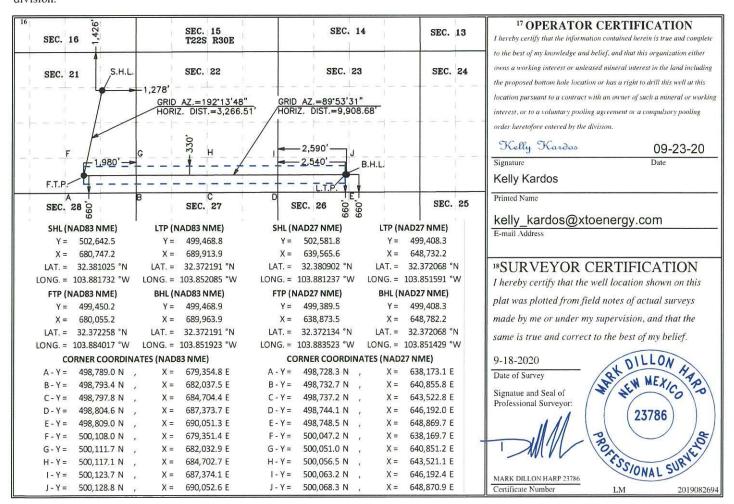
WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-45462	97905 2 Pool Code	WILDCAT G-07 S223021G;BONE	E SPRING
⁴ Property Code 325535	JAME	⁵ Property Name S RANCH UNIT DI 1	⁶ Well Number 701H
⁷ OGRID No. 373075	XTO PERM	⁹ Elevation 3,167'	

¹⁰ Surface Location

					AND RESIDENT TO THE STATE OF TH				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	22S	30E		1,426	NORTH	1,278	EAST	EDDY
	*·		11 Bott	tom Hole	Location If	Different Fron	Surface	•	
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	23	22S	30E		660	SOUTH	2,590	WEST	EDDY
¹² Dedicated Acre. 320	s 13 Joint o	r Infill 14 C	Consolidation 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#	015-454	162												
Ope	rator Na		ERATIN	G, LL	С		perty N nes R			t DI 1				Well Number 701H
<i>«:</i> -1. <i>«</i>	off D - i - t	(VOD)												
UL	Off Point Section	Township	Range	Lot	Feet		From N		Feet	4		n E/W	County	
H Latitu	21	22S	30E		1426 Longitu	ıde	North		127	8	Eas	t	EDDY NAD	
	381025	5			-103.		732						83	
UL O	Section	Township 22S	Range 30E	Lot	Feet 660	-	From N		Feet 198		From Eas	n E/W t	County EDDY	
Latitu	ıde		300		Longitu			111	130	<u> </u>	Las		NAD	
32.3	372258				-103.	.884	017						83	
ul N	Section 23	t (LTP) Township 22S	Range 30E	Lot	Feet 660		m N/S OUTH	Feet 254		From I		Count	-	
Latitu	ide 372191			**************************************	Longitu -103.		0085					NAD 83		
s this	well the	defining v	vell for the	e Horiz	ontal Sp	pacin	g Unit?		/]				
s this	well an i	nfill well?]	N]									
	l is yes pl ng Unit.	ease provi	de API if a	availab	le, <mark>O</mark> per	ator	Name	and v	vell nı	umber	for [Definir	ng well fo	r Horizontal
API#														
70	rator Nar PERM	ne: IIAN OPE	ERATIN	G, LL	С	Proj	perty N	lame:						Well Number
														V7.00/20/201

KZ 06/29/2018

Additional data for EC transaction #531380 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

Revisions to Operator-Submitted EC Data for Sundry Notice #531380

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH NOI

APDCH NOI

Lease:

NMNM06808

NMNM06808

Agreement:

891000558X (NMNM70965X)

Operator:

XTO PERMIAN OPERATING, LLC 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374

XTO PERMIAN OPERATING LLC 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277

Admin Contact:

KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com

KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374

Ph: 432-620-4374

Tech Contact:

KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com KELLY KARDOS REGULATORY COORDINATOR E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374

Ph: 432-620-4374

Location:

State: County:

NM EDDY

NM EDDY

Field/Pool:

WILDCAT BONE SPRING

WILDCAT

Well/Facility:

JAMES RANCH UNIT DI 1 BS2B-8E 216H

Sec 21 T22S R30E Mer NMP SWNE 1512FNL 1586FEL

JAMES RANCH UNIT DI1 701H Sec 21 T22S R30E SWNE 1512FNL 1586FEL

32.380791 N Lat, 103.882729 W Lon

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.

James Ranch Unit DI 1 701H

Projected TD: 20643' MD / 9439' TVD SHL: 1426' FNL & 1278' FEL, Section 21, T225, R30E BHL: 660' FSL & 2590' FWL, Section 23, T22S, 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 9900' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 20643 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9400 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	втс	New	2.52	4.72	29.59
12.25	0' - 3384'	9.625	40	J-55	BTC	New	1.33	2.34	4.65
8.75	0' - 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.93	2.95	1.90
8.75	3484' – 9900'	7.625	29.7	HC L-80	Flush Joint	New	2.13	2.51	2.13
6.75	0' – 9800'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.64	2.38
6.75	9800' - 10100'	5.5	23	RY P-110	Semi-Flush	New	1.16	2.56	7.50
6.75	10100' - 20643'	5	18	RY P-110	Semi-Premium	New	1.12	2.54	7.85

- 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.
- $\cdot\,7.625\,\text{Tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35$
- · 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
 - · 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: 360 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 = TOC: Surface

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 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: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) TOC: 9400¹
Tail: 1010 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) TcTOC: 10100¹
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 9900'	8.75	FW / Cut Brine	10-10.5	30-32	NC
9900' to 20643'	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 Totto 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.

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

XTO Energy Inc.

James Ranch Unit DI 1 701H

Projected TD: 20643' MD / 9439' TVD

SHL: 1426' FNL & 1278' FEL , Section 21, T22S, R30E

BHL: 660' 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	9269'	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 9900' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 20643 MD/TD and 5.5×5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9400 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
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8.75	0' – 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.93	2.95	1.90
8.75	3484' – 9900'	7.625	29.7	HC L-80	Flush Joint	New	2.13	2.51	2.13
6.75	0' – 9800'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.64	2.38
6.75	9800' - 10100'	5.5	23	RY P-110	Semi-Flush	New	1.16	2.56	7.50
6.75	10100' - 20643'	5	18	RY P-110	Semi-Premium	New	1.12	2.54	7.85

- · 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 +/- 9900'

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

TOC: Surface

Tail: 360 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

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 +/- 20643'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9400 feet Tail: 1010 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement: 10100 feet

1375 psi 12-hr = 24 hr = 2285 psi Compressives:

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 3224 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 9900'	8.75	FW / Cut Brine	10-10.5	30-32	NC
9900' to 20643'	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.

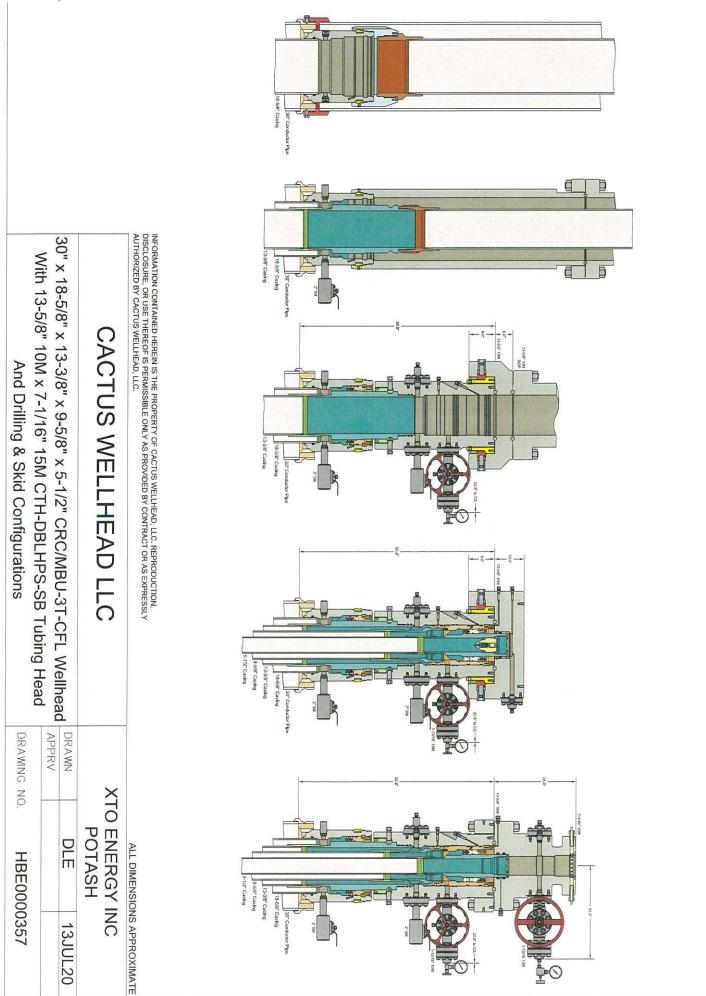
Open hole logging will not be done on this well.

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 5301 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.



Well Plan Report - JRU DI 1 701H

Measured Depth:

20643.20 ft 9265,00 ft

Site:

James Ranch

TVD RKB: Location

Cartographic Reference

New Mexico East -

Slot:

JRU DI 1 701H

System:

NAD 27

Northing: Easting:

502581.84 ft 639565.56 ft 3193,00 ft

RKB: **Ground Level:**

3163,00 ft

North Reference:

Grid

Convergence Angle:

0,24 Deg

Plan Sections	JF	RU DI 1 701H							
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	165,00	1299.86	-7.58	2.03	1.00	0.00	1.00	
1500.00	3.00	165.00	1499.59	-17.70	4.74	0.00	0.00	0.00	
1800.00	0.00	0.00	1799.45	-25.28	6.77	-1.00	0.00	1.00	
4000.55	0.00	0.00	4000.00	-25.28	6.77	0.00	0.00	0.00	
5971.90	39.43	204.60	5819.41	-618.02	-264.65	2.00	0.00	2.00	
9680.51	39.43	204.60	8684.07	-2759.49	-1245.28	0.00	0.00	0.00	
10734.48	90.00	89.89	9265.00	-3192.34	-692.06	4.80	-10.88	10.00	FTP 10
20643.20	90.00	89.89	9265.00	-3173.54	9216.64	0.00	0.00	0.00	BHL 10

Position U	ncertainty	JF	RU DI 170	1H										
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_ADK (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_ADK (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	

1														SDI_Keeper_ADK
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
1100.000	1.000	165.000	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	165.000	1199,959	2.513	0.000	2.513	-0.000	2.669	0.000	0.000	2.514	2.513	75.000	SDI_Keeper_ADK
1300,000	3.000	165.000	1299,863	2.721	0.000	2.723	-0.000	2.729	0.000	0.000	2.725	2.723	75.000	SDI_Keeper_ADK
1400,000	3,000	165.000	1399.726	2.930	0.000	2.934	-0.000	2.794	0.000	0.000	2.934	2.934	75.000	SDI_Keeper_ADK (2)
1500.000	3,000	165.000	1499.589	3.139	0.000	3.145	-0.000	2.863	0.000	0.000	3.145	3.143	-15.000	SDI_Keeper_ADK (2)
1600.000	2.000	165,000	1599,492	3,350	0,000	3.356	-0.000	2.937	0.000	0.000	3,356	3,352	-15.000	SDI_Keeper_ADK (2)
1700.000	1.000	165.000	1699.457	3.560	0.000	3.566	-0.000	3.015	0.000	0.000	3.566	3.560	-15.000	SDI_Keeper_ADK (2)
1800.000	0.000	0.000	1799.452	3,770	0.000	3,775	0.000	3,095	0.000	0.000	3.776	3.769	-15.000	SDI_Keeper_ADK (2)
1900.000	0.000	0.000	1899,452	3,979	0,000	3.984	0.000	3,179	0.000	0.000	3.985	3.979	-15.000	SDI_Keeper_ADK (2)
2000,000	0.000	0.000	1999.452	4.188	0.000	4.193	0.000	3,265	0,000	0.000	4.194	4.188	-15.000	SDI_Keeper_ADK (2)
2100.000	0.000	0.000	2099.452	4.398	0,000	4.403	0.000	3,355	0.000	0.000	4.403	4.397	-15,000	SDI_Keeper_ADK (2)
2200.000	0,000	0.000	2199,452	4.607	0.000	4.612	0.000	3.448	0.000	0.000	4,612	4.607	-15,000	SDI_Keeper_ADK (2)
2300.000	0.000	0.000	2299.452	4.816	0.000	4.821	0.000	3.544	0.000	0.000	4.821	4.816	-15,000	SDI_Keeper_ADK (2)
2400.000	0.000	0.000	2399,452	5.026	0.000	5.030	0.000	3.643	0.000	0.000	5.031	5.025	-15.000	SDI_Keeper_ADK (2)
2500.000	0.000	0.000	2499.452	5.235	0.000	5.239	0.000	3.744	0.000	0.000	5.240	5.235	-15.000	SDI_Keeper_ADK (2)
2600.000	0.000	0.000	2599.452	5.445	0.000	5.449	0.000	3.849	0.000	0.000	5.449	5.444	-15.000	SDI_Keeper_ADK (2)
2700.000	0.000	0.000	2699.452	5.654	0.000	5.658	0.000	3,956	0.000	0.000	5.658	5.654	-15.000	SDI_Keeper_ADK (2)
2800.000	0.000	0.000	2799,452	5.863	0.000	5.867	0.000	4.066	0,000	0.000	5.868	5.863	-15.000	SDI_Keeper_ADK (2)
2900.000	0.000	0.000	2899.452	6.073	0.000	6.077	0.000	4.179	0.000	0.000	6.077	6.072	-15.000	SDI_Keeper_ADK (2)
3000,000	0.000	0.000	2999,452	6.282	0.000	6,286	0.000	4.294	0.000	0.000	6.286	6.282	-15,000	SDI_Keeper_ADK (2)
3100.000	0.000	0.000	3099.452	6.492	0.000	6.495	0.000	4.413	0.000	0.000	6.495	6.491	-15.000	SDI_Keeper_ADK (2)
3200,000	0,000	0.000	3199,452	6.701	0.000	6.704	0.000	4.533	0.000	0,000	6.705	6.701	-15,000	SDI_Keeper_ADK (2)
3300.000	0.000	0.000	3299.452	6.910	0.000	6.914	0.000	4.657	0.000	0,000	6.914	6.910	-15.000	SDI_Keeper_ADK (2)
3400.000	0.000	0.000	3399.452	7.120	0.000	7.123	0.000	4.783	0.000	0.000	7.123	7.119	-15.000	SDI_Keeper_ADK (2)
3500.000	0.000	0.000	3499.452	7.329	0.000	7.332	0.000	4.911	0.000	0.000	7.333	7.329	-15.000	SDI_Keeper_ADK (2)
3600,000	0.000	0.000	3599,452	7.539	0.000	7.542	0.000	5.043	0.000	0.000	7.542	7.538	-15.000	SDI_Keeper_ADK (2)
3700.000	0.000	0.000	3699.452	7.748	0.000	7.751	0.000	5.176	0.000	0.000	7.751	7.748	-15.000	SDI_Keeper_ADK (2)
3800.000	0.000	0.000	3799.452	7.957	0.000	7.961	0.000	5.313	0.000	0.000	7.961	7.957	-15.000	SDI_Keeper_ADK (2)
3900.000	0.000	0.000	3899.452	8.167	0.000	8.170	0.000	5.452	0.000	0.000	8.170	8.167	-15.000	SDI_Keeper_ADK (2)
4000.548	0.000		4000.000	8.377		8.380	0.000	5.594		0.000	8.381	8.377	-15,000	SDI_Keeper_ADK (2)
4100.000	1.989	204.604	4099.432	8,585	-0,000	8.588	0.000	5,737	0.000	0.000	8.589	8.585	-14.001	SDI_Keeper_ADK (2)

1														SDI Kaanar ADK
4200,000	3,989	204,604	4199,291	8,785	-0.000	8,798	0.000	5.883	0.000	0.000	8,800	8.795	-13,327	SDI_Keeper_ADK (2)
4300.000	5.989	204.604	4298,907	8.979	-0.000	9.009	0.000	6.029	0,000	0.000	9.011	9.005	-8.752	SDI_Keeper_ADK (2)
4400.000	7.989	204.604	4398,159	9.165	-0,000	9,221	0.000	6.177	0.000	0.000	9,223	9.214	-1.060	SDI_Keeper_ADK (2)
4500.000	9.989	204.604	4496.925	9.343	-0.000	9,435	0.000	6.326	0.000	0.000	9.437	9.422	6.367	SDI_Keeper_ADK (2)
4600,000	11.989	204.604	4595,087	9.473	-0.000	9.550	0.000	6.383	0.000	0.000	9.726	9.547	122.274	MWD+IFR1+MS
4700.000	13,989	204.604	4692,523	9.710	-0.000	9.584	0.000	6.554	0.000	0.000	10.027	9.564	126,457	MWD+IFR1+MS
4800.000	15.989	204.604	4789,116	9.951	-0.000	9.634	0.000	6.732	0.000	0.000	10.332	9.596	127.437	MWD+IFR1+MS
4900.000	17,989	204.604	4884.747	10.197	-0.000	9.700	0.000	6.919	0.000	0,000	10.640	9.645	127,882	MWD+IFR1+MS
5000.000	19.989	204.604	4979,300	10.450	-0.000	9.782	0,000	7.114	0.000	0.000	10,950	9.710	128,143	MWD+IFR1+MS
5100.000	21.989	204.604	5072.661	10.710	-0.000	9.882	0.000	7.320	0.000	0.000	11.264	9.793	128,323	MWD+IFR1+MS
5200.000	23.989	204.604	5164.714	10.978	-0.000	9,999	0.000	7.536	0.000	0.000	11.580	9.895	128.462	MWD+IFR1+MS
5300,000	25.989	204.604	5255.348	11.255	-0.000	10.135	0.000	7.763	0.000	0.000	11.899	10.015	128,582	MWD+IFR1+MS
5400.000	27,989	204.604	5344.453	11.541	-0.000	10,289	0.000	8.002	0.000	0.000	12.220	10.155	128.694	MWD+IFR1+MS
5500.000	29,989	204.604	5431.920	11.837	-0.000	10.462	0.000	8.255	0.000	0.000	12.544	10.315	128.806	MWD+IFR1+MS
5600.000	31.989	204.604	5517.642	12.143	-0.000	10.655	0.000	8.521	0.000	0.000	12.870	10.494	128,926	MWD+IFR1+MS
5700,000	33,989	204.604	5601.515	12.459	-0.000	10.867	0.000	8.802	0.000	0.000	13,198	10.694	129.059	MWD+IFR1+MS
5800,000	35,989	204.604	5683.437	12.786	-0.000	11.099	0.000	9.098	0.000	0.000	13,527	10,914	129,210	MWD+IFR1+MS
5900.000	37.989	204.604	5763.308	13,124	-0.000	11.350	0.000	9.410	0.000	0.000	13.856	11.154	129,386	MWD+IFR1+MS
5971.900	39.427	204.604	5819,413	13,305	-0.000	11,537	0.000	9.606	0.000	0.000	14.051	11.339	129.462	MWD+IFR1+MS
6000,000	39.427	204.604	5841.119	13.383	-0.000	11.610	0.000	9.669	0.000	0.000	14.111	11.413	129.471	MWD+IFR1+MS
6100.000	39.427	204.604	5918.362	13.668	-0.000	11.888	0.000	9.910	0.000	0.000	14.323	11.693	129.651	MWD+IFR1+MS
6200.000	39.427	204.604	5995,606	13,979	-0.000	12,191	0.000	10,166	0.000	0.000	14,555	11.993	129,988	MWD+IFR1+MS
6300.000	39.427	204.604	6072.849	14.306	-0.000	12.506	0.000	10.432	0.000	0.000	14.798	12.306	130.347	MWD+IFR1+MS
6400.000	39,427	204.604	6150.092	14.648	-0.000	12.834	0.000	10.707	0.000	0.000	15.051	12.631	130.728	MWD+IFR1+MS
6500.000	39,427	204.604	6227,336	15.005	-0.000	13,174	0.000	10,990	0.000	0.000	15,315	12,968	131.135	MWD+IFR1+MS
6600,000	39.427	204.604	6304.579	15.374	-0.000	13,524	0.000	11,280		0.000	15,589			MWD+IFR1+MS
6700.000	39.427		6381.822	15,756		13,884	0.000	11.579			15.872			MWD+IFR1+MS
6800.000			6459,066	16.149		14.254	0.000	11.883			16.164			MWD+IFR1+MS
6900,000			6536.309	16.553		14.631	0.000	12.195			16.465			MWD+IFR1+MS
7000.000			6613,553	16,967		15.017	0.000	12,512			16.774			MWD+IFR1+MS
7100.000			6690.796	17.389		15.409	0.000	12.835			17.090			MWD+IFR1+MS
7200.000			6768.039	17.821		15.809	0.000	13.163			17.414			MWD+IFR1+MS
7300.000	39.427		6845,283	18.260		16.214	0.000	13.495						MWD+IFR1+MS
7400,000			6922.526				0.000	13.833			18.084			MWD+IFR1+MS
7500.000			6999.770			17.042	0.000	14.175			18.428			MWD+IFR1+MS
7600.000			7077.013			17.463		14.520			18.779			MWD+IFR1+MS
7700.000			7154.256 7231,500				0.000	14.870			19.137			MWD+IFR1+MS MWD+IFR1+MS
					-0.000		0.000	15.223			19,499			MWD+IFR1+MS
7900,000			7308,743 7385,987		-0.000		0.000	15.580 15.940			19.868			MWD+IFR1+MS
II POSSESS			7463.230		-0.000	19.192	0.000	16.303			20.622			MWD+IFR1+MS
8100.000			7540.473		-0.000		0.000	16.669			21.007			MWD+IFR1+MS
8200.000 8300.000	39.427		7617.717			20.525		17.038			21.396			MWD+IFR1+MS
505300005995300	39,427		7694.960			20.976		17.410			21.791			MWD+IFR1+MS
8400.000 8500.000	39.427		7772.204		-0.000		0.000	17.784			22.191			MWD+IFR1+MS
8600.000	39.427		7849,447		-0.000		0.000	18.160			22.596			MWD+IFR1+MS
8700.000	39.427		7926,690		-0.000		0.000	18.539			23.005			MWD+IFR1+MS
8800.000	39,427		8003.934			22.802	0.000	18.921			23.419			MWD+IFR1+MS
8900.000	39.427		8081.177		-0.000		0.000	19.304			23.838			MWD+IFR1+MS
9000.000	39,427		8158.421		-0.000		0.000	19.689			24.261			MWD+IFR1+MS
9100.000	39,427		8235,664			24.194		20,077			24.689			MWD+IFR1+MS
	ON MARKET			500						000				

9200.000	30 427	204 604	8312.907	27 558	-0.000	24.662	0.000	20,466	0.000	0.000	25 120	24.173	-19 746	MWD+IFR1+MS
9300,000	39.427		8390,151			25,131		20,858			25,556			MWD+IFR1+MS
9400.000	39,427		8467.394			25.602		21,251			25,996			MWD+IFR1+MS
9500.000	39.427	White Indiana	8544.637			26.074	0.000	21.646			26,440			MWD+IFR1+MS
9600.000	39.427		8621.881			26.548	0.000	22.043			26.887			MWD+IFR1+MS
9680,508	39,427		8684,068			26.928	0.000	22.362			27.247			MWD+IFR1+MS
D) SERVICE SERVICE				SE Propagation (SE)	and the second	Processor and the second		(2) (4) (4) (4) (4) (4) (4) (4) (4)	SEA	F(Till Researches	555 sautomorene	65 10000 1000 100	NVO
9700.000	38,811		8699,192			27.064		22.440			27.333			MWD+IFR1+MS
9800.000	36.895		8778.341			28.499		22.845			28.565			MWD+IFR1+MS
9900,000	37.254		8858.329	30.052		31.133		23.238			31.150			MWD+IFR1+MS
10000,000	39.826		8936.726	29.649		33,121		23,640			33,377			MWD+IFR1+MS
10100,000	44.218		9011.149	29.252		34.534		24.179			35.078			MWD+IFR1+MS
10200.000	49,938		9079,337	28,836		35,543		24,958			36.297			MWD+IFR1+MS
10300,000	56.566		9139,219	28.490	0.000	36,281		26.028			37.177			MWD+IFR1+MS
10400.000	63.794		9188.974	28.431	0.000	36.828		27.381			37.848			MWD+IFR1+MS
10500,000	71,409		9227.092	28.921		37.224		28,963			38.404			MWD+IFR1+MS
10600,000	79.261		9252,413	30.158		37.489		30.692			38.911			MWD+IFR1+MS
10700.000	87.238		9264.169	32.204	0.000	37.624		32.475			39.421			MWD+IFR1+MS
10734.483	90.000		9265,000			37,444		32.705			39.483			MWD+IFR1+MS
10800,000	90,000		9265,000		-0.000	37.447		33,030						MWD+IFR1+MS
10900.000	90,000		9265,000	33.507		37.452		33.507						MWD+IFR1+MS
11000.000	90.000		9265,000		-0.000			33.997						MWD+IFR1+MS
11100.000	90.000	89.891	9265.000			37.520	0.000	34.498						MWD+IFR1+MS
11200.000	90,000	89.891	9265,000			37,580	0.000	35.010			40.117	SANDAM PRO	CONTRACT CONTRACTOR	MWD+IFR1+MS
11300.000	90.000	89.891	9265,000			37,658	0.000	35,531	0.000					MWD+IFR1+MS
11400.000	90.000		9265,000	36.062	-0.000	37.754	0.000	36.062	0.000	0.000	40.459	31.967	125.803	MWD+IFR1+MS
11500.000	90.000	89.891	9265,000	36.602	-0.000	37,867	0.000	36,602	0.000	0,000	40.646	31.860	125,713	MWD+IFR1+MS
11600.000	90.000	89.891	9265.000	37.151	-0.000	37.997	0.000	37.151	0.000	0.000	40.843	31.761	125.576	MWD+IFR1+MS
11700.000	90.000	89.891	9265.000	37.708	-0.000	38,144	0.000	37.708	0.000	0.000	41.049	31,669	125.398	MWD+IFR1+MS
11800.000	90.000	89.891	9265,000	38,274	-0.000	38,308	0.000	38.274	0.000	0.000	41,266	31,584	125,183	MWD+IFR1+MS
11900.000	90.000	89.891	9265.000	38.847	-0.000	38.488	0.000	38.847	0.000	0.000	41.493	31.506	124.934	MWD+IFR1+MS
12000.000	90.000	89.891	9265.000	39.427	-0.000	38.685	0.000	39.427	0.000	0.000	41.731	31.435	124.656	MWD+IFR1+MS
12100.000	90.000	89.891	9265,000	40.014	-0.000	38,898	0.000	40.014	0.000	0.000	41.978	31.371	124,352	MWD+IFR1+MS
12200,000	90,000	89,891	9265,000	40.608	-0.000	39,127	0.000	40,608	0.000	0.000	42.235	31.314	124.025	MWD+IFR1+MS
12300.000	90.000	89.891	9265.000	41.208	-0.000	39,371	0.000	41.208	0.000	0.000	42.503	31.263	123,677	MWD+IFR1+MS
12400.000	90.000	89.891	9265,000	41.814	-0.000	39.631	0.000	41.814	0.000	0.000	42.780	31.219	123.312	MWD+IFR1+MS
12500,000	90.000	89,891	9265,000	42,426	-0.000	39,906	0.000	42.426	0.000	0,000	43,068	31,180	122,930	MWD+IFR1+MS
12600,000	90,000	89.891	9265,000	43.044	-0.000	40.195	0.000	43.044	0.000	0.000	43,365	31.147	122,536	MWD+IFR1+MS
12700.000	90.000	89.891	9265.000	43.667	-0.000	40.499	0.000	43.667	0.000	0.000	43.673	31.120	122.129	MWD+IFR1+MS
12800.000	90.000	89.891	9265,000	44.295	-0.000	40.817	0,000	44.295	0.000	0.000	43,990	31.098	121.713	MWD+IFR1+MS
12900.000	90.000	89.891	9265,000	44.929	-0.000	41.148	0.000	44.929	0.000	0.000	44.318	31.080	121.290	MWD+IFR1+MS
13000.000	90,000	89,891	9265,000	45.566	-0.000	41.493	0.000	45.566	0.000	0.000	44.655	31,068	120,860	MWD+IFR1+MS
13100.000	90.000	89.891	9265,000	46.209	-0.000	41,851	0.000	46.209	0.000	0.000	45.003	31.060	120.425	MWD+IFR1+MS
13200.000	90,000	89.891	9265.000	46.856	-0.000	42.222	0.000	46.856	0.000	0.000	45,360	31.057	119.986	MWD+IFR1+MS
13300.000	90.000	89.891	9265.000	47.507	-0.000	42.605	0.000	47.507	0.000	0.000	45.726	31.057	119.545	MWD+IFR1+MS
13400.000	90,000	89,891	9265,000	48.162	-0.000	43.000	0.000	48.162	0.000	0.000	46,103	31.062	119.103	MWD+IFR1+MS
13500.000	90,000	89,891	9265,000	48.820	-0.000	43,407	0.000	48.820	0.000	0.000	46.489	31.070	118,661	MWD+IFR1+MS
13600.000	90.000	89.891	9265,000	49.483	-0.000	43,826	0.000	49.483	0.000	0.000	46.884	31.082	118.219	MWD+IFR1+MS
13700.000	90.000	89.891	9265,000	50.149	-0.000	44.255	0.000	50.149	0.000	0.000	47.289	31.097	117.780	MWD+IFR1+MS
13800.000	90.000	89,891	9265.000	50.818	-0.000	44.696	0.000	50.818	0.000	0.000	47.702	31.115	117.342	MWD+IFR1+MS
13900.000	90.000	89,891	9265,000	51.491	-0.000	45.146	0.000	51.491	0.000	0.000	48.125	31.136	116,908	MWD+IFR1+MS
14000.000	90.000	89.891	9265,000	52.166	-0.000	45.607	0.000	52.166	0.000	0.000	48.557	31.159	116.477	MWD+IFR1+MS
14100.000	90.000	89.891	9265.000	52.845	-0.000	46.078	0.000	52.845	0.000	0.000	48.998	31,186	116.051	MWD+IFR1+MS
14200.000	90.000	89.891	9265,000	53.527	-0.000	46,558	0.000	53.527	0.000	0.000	49.447	31.214	115.629	MWD+IFR1+MS
14300.000	90,000	89,891	9265,000	54.211	-0.000	47,048	0.000	54.211	0.000	0.000	49,905	31,246	115.213	MWD+IFR1+MS
3053														.5

14400,000	90,000	89.891	9265,000	54.898	-0.000	47.546	0.000	54.898	0.000	0.000	50,371	31.279	114.802	MWD+IFR1+MS
14500.000	90.000	89.891	9265,000	55.588	-0.000	48.053	0.000	55.588	0.000	0.000	50.845	31.314	114.397	MWD+IFR1+MS
14600,000	90.000	89.891	9265.000	56.280	-0.000	48,569	0.000	56.280	0.000	0.000	51,327	31.352	113.998	MWD+IFR1+MS
14700.000	90,000	89,891	9265,000	56.975	-0,000	49.093	0.000	56,975	0.000	0.000	51.817	31,391	113,606	MWD+IFR1+MS
14800.000	90.000	89.891	9265,000	57.672	-0.000	49.624	0.000	57.672	0.000	0.000	52,315	31.432	113.220	MWD+IFR1+MS
14900.000	90.000	89.891	9265,000	58.371	-0.000	50,164	0.000	58.371	0.000	0.000	52.820	31.474	112.840	MWD+IFR1+MS
15000.000	90.000	89.891	9265,000	59.072	-0,000	50.710	0.000	59.072	0.000	0.000	53.332	31.518	112.468	MWD+IFR1+MS
15100,000	90.000	89,891	9265,000	59,776	-0,000	51,264	0.000	59.776	0.000	0.000	53,852	31.564	112,103	MWD+IFR1+MS
15200,000	90.000	89,891	9265,000	60.481	-0.000	51.825	0.000	60,481	0.000	0.000	54.379	31,611	111.744	MWD+IFR1+MS
15300.000	90.000	89.891	9265.000	61.188	-0.000	52.392	0.000	61.188	0.000	0.000	54.912	31.659	111.393	MWD+IFR1+MS
15400.000	90.000	89.891	9265.000	61.897	-0.000	52.966	0.000	61.897	0.000	0.000	55.453	31.709	111.048	MWD+IFR1+MS
15500.000	90.000	89.891	9265.000	62.608	-0.000	53,546	0.000	62.608	0.000	0.000	56.000	31.760	110.711	MWD+IFR1+MS
15600.000	90,000	89.891	9265,000	63,321	-0.000	54,133	0.000	63.321	0.000	0.000	56.553	31.812	110.380	MWD+IFR1+MS
15700.000	90.000	89.891	9265,000	64.036	-0.000	54.725	0.000	64.036	0.000	0.000	57,112	31.865	110.057	MWD+IFR1+MS
15800.000	90,000	89.891	9265,000	64.752	-0.000	55.323	0.000	64.752	0.000	0.000	57.677	31.920	109.740	MWD+IFR1+MS
15900.000	90.000	89.891	9265,000	65.469	-0.000	55,926	0.000	65.469	0.000	0.000	58.249	31.975	109.430	MWD+IFR1+MS
16000.000	90,000	89,891	9265,000	66.188	-0,000	56,535	0.000	66.188	0.000	0.000	58.826	32,032	109.127	MWD+IFR1+MS
16100.000	90.000	89,891	9265,000	66,909	-0,000	57,149	0.000	66,909	0.000	0.000	59.408	32.089	108,831	MWD+IFR1+MS
16200.000	90.000	89.891	9265,000	67.631	-0.000	57.768	0.000	67.631	0.000	0.000	59.996	32.147	108.541	MWD+IFR1+MS
16300.000	90.000	89.891	9265,000	68.354	-0.000	58.392	0.000	68.354	0.000	0.000	60,589	32.207	108,257	MWD+IFR1+MS
16400.000	90.000		9265,000	69.079	-0.000	59.020	0.000	69.079	0.000	0.000	61,188	32.267	107.980	MWD+IFR1+MS
16500.000	90.000	89.891	9265,000	69.805	-0,000	59,653	0.000	69.805	0.000	0.000	61.791	32.328	107.709	MWD+IFR1+MS
16600.000	90.000	89.891	9265,000	70,533	-0.000	60.290	0.000	70,533	0.000	0,000	62,399	32,390	107.444	MWD+IFR1+MS
16700.000	90.000	89.891	9265,000	71.261	-0.000	60.932	0.000	71.261	0.000	0.000	63.012	32,452	107.185	MWD+IFR1+MS
16800.000	90,000		9265,000	71.991		61,578	0.000	71.991						MWD+IFR1+MS
16900,000	90.000		9265,000	72.722			0.000	72.722						MWD+IFR1+MS
17000,000	90.000		9265,000	73,454			0.000	73.454						MWD+IFR1+MS
17100.000	90.000		9265.000	74.187			0.000	74.187						MWD+IFR1+MS
17200.000	90.000		9265,000	74.921				74.921			66.143			MWD+IFR1+MS
17300,000	90.000		9265,000	75,656		64,864	0,000	75,656			66.782			MWD+IFR1+MS
17400,000	90,000		9265.000	76.392				76.392			67,425			MWD+IFR1+MS
17500.000	90.000		9265.000	77.129				77.129						MWD+IFR1+MS
17600.000	90.000		9265,000	77.867				77.867						MWD+IFR1+MS
17700,000	90,000	89,891	9265,000	78,606	-0,000	67,556	0,000	78,606	0.000	0.000	69,375	33,121	104.895	MWD+IFR1+MS
17800.000	90,000	89.891	9265,000			68,237		79.346		0.000	70.032	33,192	104.693	MWD+IFR1+MS
17900.000	90.000	89.891	9265.000	80.087	-0.000	68,920	0.000	80.087	0.000	0.000	70.692	33.263	104.495	MWD+IFR1+MS
18000.000	90.000		9265.000			69,607		80.828						MWD+IFR1+MS
18100.000	90.000		9265,000	81,570	-0.000	70.296	0.000	81.570		0.000	72.023	33,408	104.114	MWD+IFR1+MS
18200.000	90,000		9265,000	82.314	-0.000		0.000	82.314	0,000					MWD+IFR1+MS
18300.000	90.000		9265,000	83,057			0.000	83.057						MWD+IFR1+MS
18400.000	90.000		9265.000	83.802			0.000	83.802	0.000	0.000	74.042	33,631	103,572	MWD+IFR1+MS
18500.000	90.000		9265.000	84.547			0.000	84.547						MWD+IFR1+MS
18600.000	90.000		9265.000					85.293	0.000	0.000	75.402	33,783	103,230	MWD+IFR1+MS
18700.000	90.000		9265,000	86.040				86.040			76.087			MWD+IFR1+MS
18800.000	90.000		9265.000	86.787			0.000	86.787						MWD+IFR1+MS
18900.000	90.000		9265.000			75.901		87.536						MWD+IFR1+MS
19000.000	90.000		9265,000			76.611		88.284						MWD+IFR1+MS
19100.000	90.000		9265.000	89.034			0.000	89.034						MWD+IFR1+MS
19200.000	90.000		9265.000			78.039		89.783						MWD+IFR1+MS
19300.000	90,000		9265.000	90.534				90.534						MWD+IFR1+MS
19400.000	90.000		9265.000			79.475		91.285						MWD+IFR1+MS
19500.000	90,000		9265.000	92.037			0.000	92.037						MWD+IFR1+MS
19600.000	90,000		9265,000			80,918		92,789						MWD+IFR1+MS
	7.65% T	-11-3-1		30	10	g	690	656	-					

19700,000	90.000	89.891	9265,000	93.542	-0.000	81.643	0.000	93.542	0.000	0.000	83,065	34.662	101.589	MWD+IFR1+MS
19800,000	90.000	89.891	9265,000	94.295	-0.000	82,368	0.000	94.295	0.000	0.000	83,775	34.745	101,458	MWD+IFR1+MS
19900.000	90.000	89.891	9265.000	95.049	-0.000	83,096	0.000	95.049	0.000	0.000	84.486	34.829	101.329	MWD+IFR1+MS
20000.000	90.000	89.891	9265,000	95.803	-0.000	83,825	0.000	95,803	0,000	0.000	85,200	34.914	101,202	MWD+IFR1+MS
20100.000	90.000	89.891	9265.000	96.558	-0.000	84.556	0.000	96.558	0.000	0.000	85.916	34.999	101.079	MWD+IFR1+MS
20200,000	90.000	89,891	9265,000	97.313	-0.000	85,289	0.000	97.313	0.000	0.000	86,633	35.085	100.957	MWD+IFR1+MS
20300,000	90.000	89.891	9265,000	98.069	-0.000	86,023	0.000	98.069	0,000	0.000	87,352	35,172	100,838	MWD+IFR1+MS
20400,000	90.000	89.891	9265,000	98.825	-0.000	86.758	0.000	98.825	0.000	0.000	88.073	35.259	100.721	MWD+IFR1+MS
20500.000	90.000	89.891	9265.000	99.581	-0,000	87.495	0.000	99.581	0.000	0.000	88.796	35,347	100.607	MWD+IFR1+MS
20600,000	90,000	89,891	9265,000	100.338	-0.000	88,233	0.000	100.338	0.000	0.000	89,520	35.435	100.495	MWD+IFR1+MS
20643.200	90.000	89.891	9265,000	100.665	-0.000	88,551	0.000	100.665	0.000	0.000	89,833	35.473	100.447	MWD+IFR1+MS

Plan Targets	JRU DI 1 701H				
	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
FTP 10	10734.48	499389.50	638873,50	6072,00	RECTANGLE
BHL 10	20643.20	499408.30	648782.20	6072.00	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.
 - 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

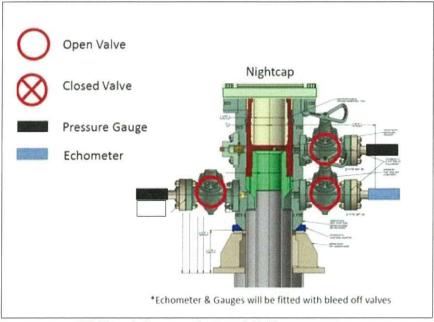
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

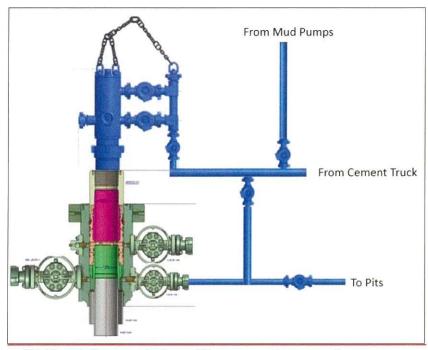
XTO Permian Operating, LLC Offline Cementing Variance Request



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

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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.

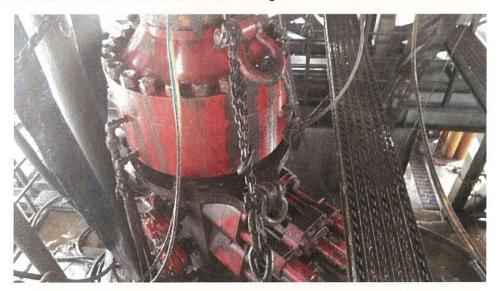


Figure 1: Winch System attached to BOP Stack



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-Low	Pressure Test—High Pressure						
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 ^{b0}	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*	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	250 to 350 (1.72 to 2.41)	MASP for the well program						
	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	n the 21 days, pressure testing is req	uired 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.

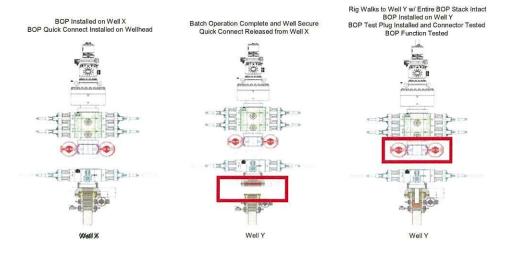
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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



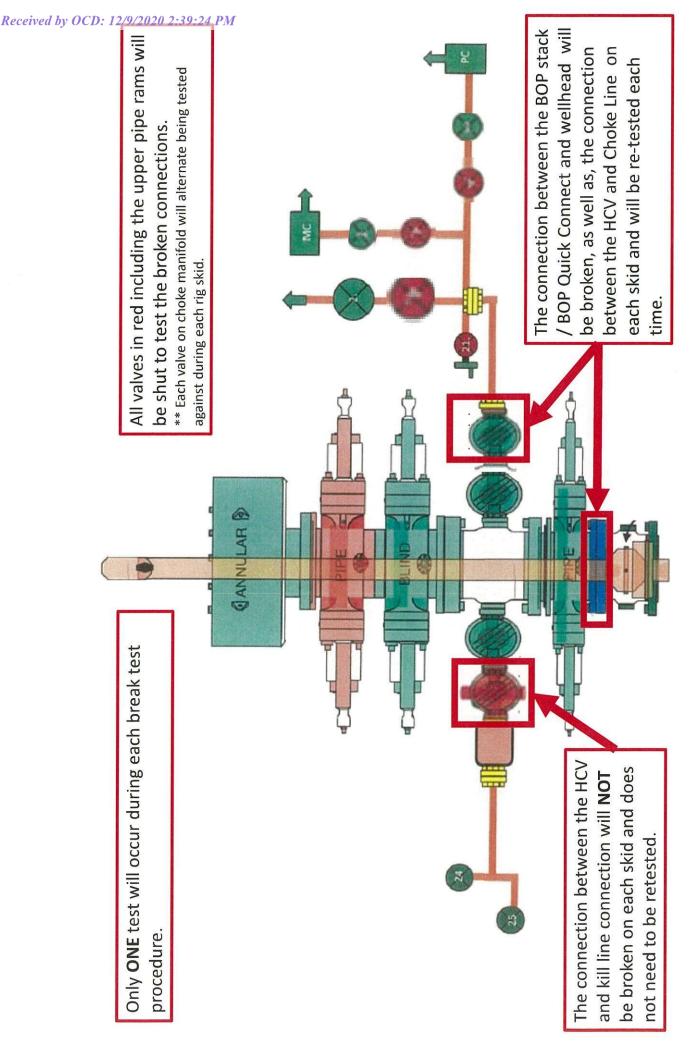
Summary

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.



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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 11611

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
XTO PERM	MAN OPERATING LLC.	6401 HOLIDAY HILL ROAD	373075	11611	C-103A
BUILDING 5	MIDLAND, TX79707				

OCD Reviewer	Condition
ahvermersch	None