Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

NMOCD - REC'D 11/25/2020 FORM APPROVED OMB NO. 1004-0137 Expires: January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

5. Lease Serial No. NMNM06808 6. If Indian, Allottee or Tribe Name

abandoned well. U	ise form 3160-3 (API)) for such p	roposals.		o. If mainin, finotice of	The Tune	
SUBMIT IN TRIF	PLICATE - Other inst	ructions on	page 2		7. If Unit or CA/Agreer 891000558X	ment, Name and/or No.	
Type of Well ☐ Gas Well ☐ Other					8. Well Name and No. JAMES RANCH U	NIT DI 1 700H	
Name of Operator XTO PERMIAN OPERATING LLC	Contact: E-Mail: kelly_kardo	KELLY KARD			9. API Well No. 30-015-45351-00)-X1	
3a. Address	,_	3b. Phone No.	. (include area code)		10. Field and Pool or Exploratory Area		
6401 HOLIDAY HILL ROAD BLDO MIDLAND, TX 79707	3 5	Ph: 432-62	0-4374		WILDCAT		
4. Location of Well (Footage, Sec., T., R.,	M., or Survey Description,)			11. County or Parish, S	tate	
Sec 21 T22S R30E SWNE 1426F 32.380791 N Lat, 103.882545 W L					EDDY COUNTY,	NM	
12. CHECK THE APPRO	OPRIATE BOX(ES)	TO INDICA	ΓE NATURE O	F NOTICE,	REPORT, OR OTH	ER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent [☐ Acidize	□ Dee _l	pen	☐ Product	ion (Start/Resume)	☐ Water Shut-Off	
_ (☐ Alter Casing	☐ Hyd	raulic Fracturing	☐ Reclam	ation	☐ Well Integrity	
☐ Subsequent Report	☐ Casing Repair	☐ New	Construction	☐ Recomp	olete	Other Change to Original A	
	☐ Change Plans	☐ Plug	and Abandon	_	arily Abandon	PD	
	☐ Convert to Injection	☐ Plug	Back	☐ Water I	Disposal		
If the proposal is to deepen directionally on Attach the Bond under which the work with following completion of the involved oper testing has been completed. Final Abando determined that the site is ready for final in XTO Permian Operating, LLC, required the well name from James	Il be performed or provide ations. If the operation resonment Notices must be file aspection. Luests permission to n	the Bond No. on sults in a multipled only after all make the follow	a file with BLM/BIA e completion or reco requirements, includ wing changes to	. Required sulmpletion in a ring reclamation the original	bsequent reports must be f new interval, a Form 3160 n, have been completed an APD:	iled within 30 days -4 must be filed once	
Change the SHL from 1512'FNL 8	1530'FEL to 1426'FN	NL & 1253'FE	L. *NO SURFAC	E DISTURE	BANCE*		
Change BHL from 2620'FSL & 24	40'FWL to 2638FNL 8	k 2590FWL.					
Casing/Cement design per the atta	ached drilling progran	٦.					
XTO also requests the following va	ariances:						
	ectronic Submission #5	AN OPERATII	IG ĹLC, sent to tl	ne Carlsbad	•		
Name(Printed/Typed) KELLY KARD	•				ORDINATOR		
Signature (Electronic Subm	ission)		Date 09/24/20)20			
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE U	SE		
Approved By CODY LAYTON			TitleASSIST FI	FI D MANA	GER LANDS MINER	ALS Date 10/23/2020	
Conditions of approval, if any, are attached. A certify that the applicant holds legal or equitabl which would entitle the applicant to conduct op	e title to those rights in the		Office Carlsbac				
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. States any false, fictitious or fraudulent stater	C. Section 1212, make it a		rson knowingly and		ake to any department or a	gency of the United	

Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

	FORM APPROVED
	OMB NO. 1004-0137
E	Expires: January 31, 201

SUNDRY Do not use thi	NOTICES AND REPO is form for proposals to	RTS ON W	-enter an		5. Lease Serial No. NMNM06808	Tuile a Nia	
abandoned we	II. Use form 3160-3 (AP	D) for such	oroposals.		6. If Indian, Allottee of	r Tribe Na	me
SUBMIT IN	TRIPLICATE - Other ins	tructions on	page 2		7. If Unit or CA/Agre	ement, Nan	ne and/or No.
Type of Well	ner				8. Well Name and No. JAMES RANCH U		700H BS2B-5L 214H
Name of Operator XTO PERMIAN OPERATING,	Contact: LLC E-Mail: kelly_kard	KELLY KAR os@xtoenergy			9. API Well No. 30-015-45351		
3a. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707	G 5	3b. Phone No Ph: 432-62	o. (include area code) 20-4374		10. Field and Pool or WILDCAT BON	Exploratory E SPRIN	/ Area G
4. Location of Well (Footage, Sec., T.	., R., M., or Survey Description)			11. County or Parish,	State	
Sec 21 T22S R30E Mer NMP	SENE 1426'FNL & 12				EDDY COUNTY	/, NM	
12. CHECK THE AF	PPROPRIATE BOX(ES)	TO INDICA	TE NATURE O	F NOTICE,	REPORT, OR OTH	IER DA	ГА
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent ■	☐ Acidize	□ Dee	pen	☐ Product	ion (Start/Resume)	□ Wat	er Shut-Off
☐ Subsequent Report	☐ Alter Casing		Iraulic Fracturing	☐ Reclam		Sales Sales Co.	1 Integrity
	☐ Casing Repair		v Construction	☐ Recomp		☑ Othe Change	er e to Original A
☐ Final Abandonment Notice	☐ Change Plans		g and Abandon	7.55	arily Abandon	PD	2 to 011g 11
	☐ Convert to Injection	☐ Plu		□ Water D			
13. Describe Proposed or Completed Ope If the proposal is to deepen directiona 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	Illy or recomplete horizontally, k will be performed or provide operations. If the operation re andonment Notices must be fil	give subsurface the Bond No. o sults in a multip	locations and measure in file with BLM/BIA le completion or reco	red and true ve Required sub mpletion in a r	rtical depths of all pertin osequent reports must be new interval, a Form 316	ent marker filed within 0-4 must be	s and zones. n 30 days e filed once
XTO Permian Operating, LLC,	requests permission to r	nake the follo	wing changes to	the original	APD:		
Change the well name from Ja	ames Ranch Unit DI 1 BS	2B-5E 214H	to James Ranch	Unit DI 1 70	юн.		
Change the SHL from 1512'FN	NL & 1530'FEL t <mark>o 1426'FI</mark>	NL & 1253'FE	EL. *NO SURFAC	E DISTURE	BANCE*		
Change BHL from 2620'FSL &	2440'FWL to 2 <mark>638FNL 8</mark>	2590FWL.					
Casing/Cement design per the	attached drilling progran	n.		A	Accepted for Red	cord - J.	AG - OCD
XTO also requests the following	ng variances:					VR	,
Eng O	K 16/22/20	Coul	S. free	100	ume COA'S	10-2	3-20
	1922/20	CRW	JUNTACE	10001 3	this con	10 00	3 00
14. I hereby certify that the foregoing is	Electronic Submission #	AN OPERATIN	IG, LLC, sent to the	he Carlsbad	.		
Name (Printed/Typed) KELLY KA	RDOS		Title REGULA	ATORY CO	ORDINATOR		
Signature (Electronic S	ubmission)		Date 09/24/20)20			
	THIS SPACE FO	R FEDERA	L OR STATE	OFFICE US	SE		
Approved By			Title KM	RES		Da	230ct te 2020
Conditions of approval, if any, are at ached certify that the applicant holds legal or equ which would entitle the applicant to condu	itable title to those rights in the		Office UN	MPOLO	O CARUSO	AN	
Title 18 U.S.C. Section 1001 and Title 43 V States any false, fictitious or fraudulent s				willfully to ma	ke to any department or	agency of t	he United

(Instructions on page 2)

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

• NSL Will require an administrative order for non-standard location prior to placing the well on production.

KP GEO Review

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 <u>District IIII</u> 1000 Rio Brazos Road, Aztec, NM 87410

Phone: (505) 334-6178 Fax: (505) 334-6170 District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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

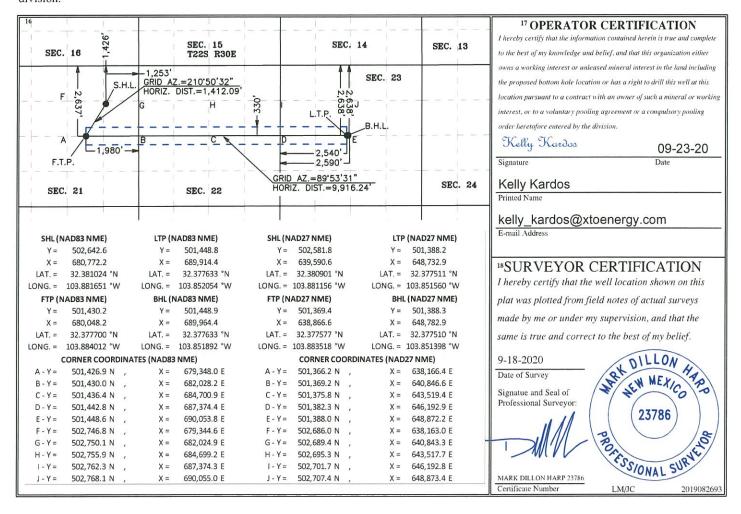
Santa Fe, NM 87505

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

✓ AMENDED REPORT

		W	ELL LC	CATIO	N AND A	CREAGE DEDIC	CATION PLA	T	7.		
1	API Numbe 30-015-4	-	97905	² Pool Code	Э						
⁴ Property 0 325535	Code					Property Name ⁶ Well Number RANCH UNIT DI 1 700H					
⁷ OGRID 37307.				⁹ Elevation 3,167'							
¹⁰ Surface Location											
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the North/South line	Feet from the	East	t/West line	County	
Н	21	22S	30E		1,426	NORTH	1,253	EAS	ST	EDDY	
			11 Bo	ttom Hol	e Location	If Different From	n Surface				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from	the North/South line	Feet from the	East	/West line	County	
F	23	22S	30E		2,638	NORTH	2,590	WE	ST	EDDY	
12 Dedicated Acres 320	3 Joint o	r Infill 14 Co	nsolidation (Code 15 Or	der 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 #	015-453	251												
Ope	rator Na		ERATIN	G, LL	С		perty N			DI 1				Well Number 700H
Kick C	Off Point	(KOP)												
UL H	Section 21	Township 22S	Range 30E	Lot	Feet 1426		From North		Feet 1253	3	Fron Eas	n E/W t	County EDDY	
Latitu 32.3	ide 381024	1	•		Longitu -103.		651						NAD 83	
First 1	Γake Poir	nt (FTP)												
UL G	Section 21	Township 22S	Range 30E	Lot	Feet 2637		From N		Feet 1980)	Fron Eas	n E/W t	County EDDY	
Latitu 32.3	ode 377700)			Longitu -103.		1012				•		NAD 83	
Last T	ake Poin	t (LTP)												
UL H	Section 23	Township 22S	Range 30E	Lot	Feet 2638	Fro No	m N/S rth	Feet 259		From WES		Count		
Latitu 32.3	ide 377633	3			Longitu -103.		2054					NAD 83		
Is this	well the	defining v	vell for the	e Horiz	ontal Sp	oacin	g Unit?		1					
ls this	well an i	infill well?		N]									
	l is yes pl ng Unit.	lease provi	de API if a	availab	le, Oper	ator	Name	and w	vell nu	ımber	for [Definir	ng well fo	r Horizontal
API#														
	rator Nar) PERM	ne: IIAN OPE	ERATIN	G, LL(0	Pro	perty N	ame:						Well Number

Additional data for EC transaction #531381 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.

James Ranch Unit DI 1 700H

Projected TD: 21052' MD / 9519' TVD SHL: 1426' FNL & 1253' FEL, Section 21, T225, R30E BHL: 2638' FNL & 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 10000' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 21052 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9500 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	втс	New	1.32	2.34	4.65
8.75	0' - 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.91	2.95	1.88
8.75	3484' 10000'	7.625	29.7	HC L-80	Flush Joint	New	2.12	2.49	2.10
6.75	0' - 9900'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.62	2.30
6.75	9900' - 10700'	5.5	23	RY P-110	Semi-Flush	New	1.16	2.42	6.83
6.75	10700' - 21052'	5	18	RY P-110	Semi-Premium	New	1.12	2.52	8.25

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

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:

1st Stage

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

TOC: Surface

Tail: 370 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

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: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water)
 TOC: 9500°

 Tail: 1030 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water)
 TOC: 10200°

 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 10000'	8.75	FW / Cut Brine	10-10.5	30-32	NC
10000' to 21052'	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.

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

XTO Energy Inc. James Ranch Unit DI 1 700H

Projected TD: 21052' MD / 9519' TVD
SHL: 1426' FNL & 1253' FEL , Section 21, T22S, R30E
BHL: 2638' FNL & 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 10000' and cemented to surface. A 6.75 inch curve and 6.75 lateral hole will be drilled to 21052 MD/TD and 5.5 x 5 inch production casing will be set at TD and cemented back up to 2nd intermediate (estimated TOC 9500 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	BTC	New	1.32	2.34	4.65
8.75	0' - 3484'	7.625	29.7	RY P-110	Flush Joint	New	2.91	2.95	1.88
8.75	3484' – 10000'	7.625	29.7	HC L-80	Flush Joint	New	2.12	2.49	2.10
6.75	0' – 9900'	5.5	23	RY P-110	Semi-Premium	New	1.16	2.62	2.30
6.75	9900' - 10700'	5.5	23	RY P-110	Semi-Flush	New	1.16	2.42	6.83
6.75	10700' - 21052'	5	18	RY P-110	Semi-Premium	New	1.12	2.52	8.25

- · 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
- \cdot 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
- \cdot 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).

- 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

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

12-hr = 900 psi Compressives: 24 hr = 1500 psi

2nd Intermediate Casing: 7.625, 29.7 New casing to be set at +/- 10000'

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

TOC: Surface

Tail: 370 sxs Class C (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

TOC: Brushy Canyon @ 6021

900 psi 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 +/- 21052'

Lead: 20 sxs NeoCem (mixed at 11.5 ppg, 2.69 ft3/sx, 15.00 gal/sx water) Top of Cement: 9500 feet 10200 feet Tail: 1030 sxs VersaCem (mixed at 13.2 ppg, 1.51 ft3/sx, 8.38 gal/sx water) Top of Cement:

1375 psi 24 hr = 2285 psi

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 Type	MW	Viscosity	Fluid Loss
INTERVAL	Hole Size	widd 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 10000'	8.75	FW / Cut Brine	10-10.5	30-32	NC
10000' to 21052'	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.

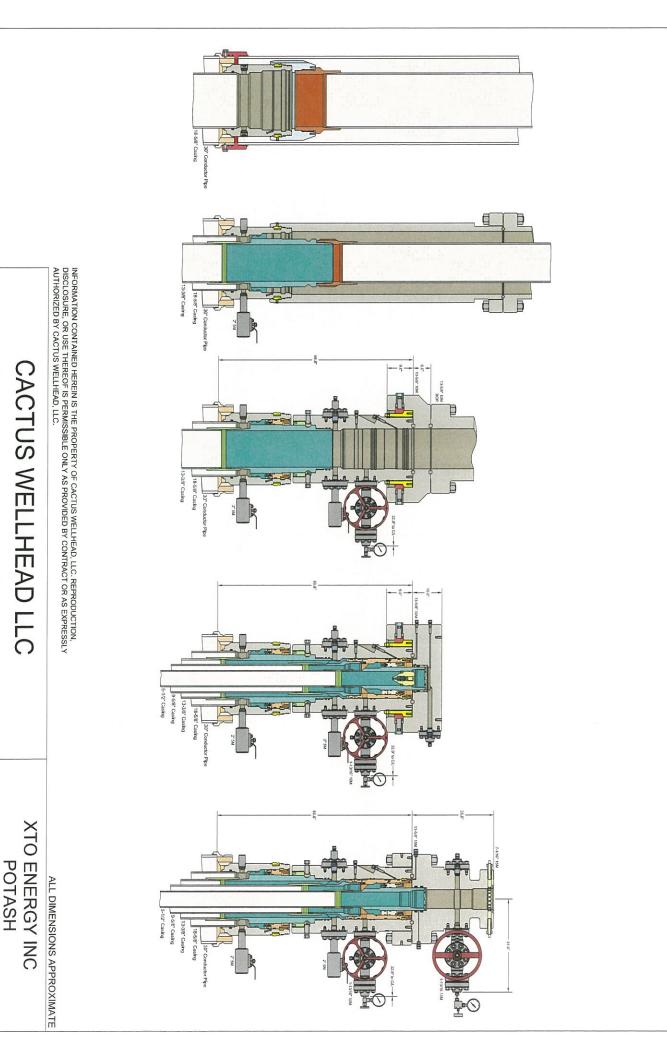
Open hole logging will not be done on this well.

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.



30" x 18-5/8" x 13-3/8" x 9-5/8" x 5-1/2" CRC/MBU-3T-CFL Wellhead With 13-5/8" 10M x 7-1/16" 15M CTH-DBLHPS-SB Tubing Head

DRAWN

DLE

13JUL20

DRAWING NO

HBE0000357

And Drilling & Skid Configurations

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Well Plan Report - JRU DI 1 700H

 Measured Depth:
 21051.92 ft
 Site:
 James Ranch

 TVD RKB:
 9515.00 ft
 Slot:
 JRU DI 1 700H

Location

Cartographic New Mexico East -Reference NAD 27 System: Northing: 502581.84 ft 639590.56 ft Easting: RKB: 3193.00 ft Ground Level: 3163,00 ft North Reference: Grid Convergence 0.24 Deg Angle:

Plan Sections	JR	RU DI 1 700H							
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
1000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	
2500.00	3.00	245.00	1499.86	-3.32	-7.12	1.00	0.00	1.00	
3000.00	3.00	245.00	1999,18	-14.38	-30,83	0.00	0.00	0.00	
3300.00	0.00	0.00	2299.04	-17.70	-37.95	-1.00	0.00	1.00	
4800.96	0.00	0.00	3800.00	-17.70	-37.95	0.00	0.00	0.00	
5550.96	15.00	220.00	4541.46	-92.47	-100.70	2.00	0.00	2.00	
5850.96	15.00	220.00	4831.24	-151.95	-150,60	0.00	0.00	0.00	
6160.88	20.13	231,65	5126.70	-215.83	-218.28	1.66	3.76	2.00	
10078.75	20.13	231.65	8805.18	-1052.44	-1275.89	0.00	0.00	0.00	
11135.60	90.00	89.89	9515.00	-1212.44	-723.96	6.61	-13.41	10.00	FTP 9
21051.92	90.00	89.89	9515.00	-1193.54	9192.34	0.00	0.00	0.00	BHL 9

Position U	ncertainty	JI	RU DI 170	100H										
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)	(°)	
1000.000	0.000	0.000	0.000	1.047	0.000	1.047	0.000	2.555	0.000	0.000	1.047	1.047	0.000	SDI_Keeper_ADI (2)
1100.000	0.000	0.000	100.000	1,257	0.000	1.257	0.000	2.606	0.000	0.000	1.257	1.257	0.000	SDI_Keeper_ADI (2)
1200.000	0.000	0.000	200.000	1.466	0.000	1.466	0.000	2.661	0.000	0.000	1.466	1.466	0.000	SDI_Keeper_ADI (2)
1300.000	0.000	0.000	300.000	1.676	0.000	1.676	0.000	2.720	0.000	0.000	1.676	1.676	0.000	SDI_Keeper_ADI (2)
1400.000	0.000	0.000	400.000	1.885	0.000	1.885	0.000	2.782	0.000	0.000	1.885	1.885	0.000	SDI_Keeper_ADI (2)
1500.000	0.000	0.000	500.000	2.094	0.000	2.094	0.000	2.848	0.000	0.000	2.094	2.094	0.000	SDI_Keeper_ADI (2)
1600.000	0.000	0.000	600.000	2.304	0.000	2.304	0.000	2.917	0.000	0.000	2.304	2.304	0.000	SDI_Keeper_ADI (2)
1700.000	0.000	0.000	700.000	2.513	0.000	2.513	0.000	2.989	0.000	0.000	2.513	2.513	0.000	SDI_Keeper_AD (2)
1800.000	0.000	0.000	800.000	2.723	0.000	2.723	0.000	3.064	0,000	0.000	2,723	2.723	0,000	

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														SDI_Keeper_ADK (2)
1900,000	0.000	0.000	900.000	2.932	0.000	2,932	0.000	3,142	0.000	0.000	2.932	2.932	0.000	SDI_Keeper_ADK (2)
2000,000	0.000	0.000	1000.000	3.142	0.000	3.142	0.000	3.223	0.000	0.000	3.142	3.142	0.000	SDI_Keeper_ADK
2100.000	0.000	0.000	1100.000	3.351	0.000	3,351	0.000	3,306	0.000	0.000	3.351	3,351	0.000	SDI_Keeper_ADK
2200.000	0.000	0.000	1200,000	3.560	0.000	3,560	0.000	3.392	0.000	0.000	3.560	3.560	0.000	SDI_Keeper_ADK
2300,000	1,000	245 000	1299.995	3 770	-0.000	3,770	0.000	3 481	0.000	0.000	3.770	3.770	135,000	(2) SDI_Keeper_ADK
Secure Country and the Country			1399.959			3.979	0.000				3.980	3.979	-25.000	SDI_Keeper_ADK
2400.000	2.000				-0.000				0.000	0.000				(2) SDI_Keeper_ADK
2500.000	3,000	245,000	1499,863	4.186	-0.000	4.189	0.000	3,665	0.000	0.000	4.190	4.189	-25.000	(2)
2600.000	3.000	245.000	1599.726	4.395	-0.000	4.399	0.000	3.760	0.000	0.000	4.399	4.399	135.000	SDI_Keeper_ADK (2)
2700.000	3.000	245,000	1699.589	4.604	-0.000	4.610	0.000	3.859	0.000	0.000	4.610	4.608	65.000	SDI_Keeper_ADK (2)
2800.000	3.000	245.000	1799.452	4.814	-0.000	4.820	0.000	3.960	0.000	0.000	4.820	4.817	65.000	SDI_Keeper_ADK (2)
2900,000	3.000	245.000	1899,315	5.023	-0.000	5.032	0.000	4.063	0.000	0.000	5.032	5.026	65.000	SDI_Keeper_ADK (2)
3000,000	3.000	245.000	1999.178	5.232	-0.000	5.243	0.000	4.169	0.000	0.000	5.243	5.235	65.000	SDI_Keeper_ADK (2)
3100,000	2,000	245,000	2099.081	5.443	-0.000	5.454	0.000	4.278	0.000	0.000	5.454	5.444	65,000	SDI_Keeper_ADK
3200.000	1.000	245.000	2199.046	5.653	-0.000	5.665	0.000	4.389	0.000	0.000	5.665	5.653	65,000	SDI_Keeper_ADK
3300,000	0.000	0.000	2299.041	5.872	0.000	5,864	0.000	4.502	0.000	0.000	5.874	5,862	65,000	(2) SDI_Keeper_ADK
3400,000	0.000		2399.041	6.081		6.073	0.000	4.617		0.000	6.083	6.071	65.000	(2) SDI_Keeper_ADK
2024/12/05 12/05/05														(2) SDI_Keeper_ADK
3500,000	0.000		2499.041	6.290	0.000	6.283	0.000	4.734		0.000	6,292	6.281	65,000	(2) SDI_Keeper_ADK
3600.000	0.000	0.000	2599.041	6.499	0.000	6.492	0.000	4.854	0.000	0.000	6.501	6.490	65,000	(2)
3700.000	0.000	0.000	2699.041	6.708	0.000	6.701	0.000	4.976	0.000	0.000	6.710	6.700	65,000	SDI_Keeper_ADK (2)
3800,000	0.000	0.000	2799.041	6.918	0.000	6.911	0.000	5.100	0.000	0.000	6.919	6.909	65,000	SDI_Keeper_ADK (2)
3900.000	0.000	0.000	2899.041	7.127	0.000	7.120	0.000	5.227	0.000	0.000	7.129	7.118	65.000	SDI_Keeper_ADK (2)
4000.000	0.000	0.000	2999.041	7.336	0.000	7.330	0.000	5.356	0.000	0.000	7.338	7.328	65.000	SDI_Keeper_ADK (2)
4100.000	0.000	0.000	3099.041	7.545	0.000	7.539	0.000	5.487	0.000	0.000	7.547	7.537	65,000	SDI_Keeper_ADK (2)
4200.000	0.000	0.000	3199.041	7.754	0.000	7.748	0.000	5.620	0.000	0.000	7.756	7.747	65,000	SDI_Keeper_ADK (2)
4300.000	0.000	0.000	3299,041	7.964	0.000	7.958	0.000	5.756	0.000	0.000	7,965	7.956	65,000	SDI_Keeper_ADK
4400.000	0.000	0.000	3399.041	8.173	0.000	8.167	0.000	5.895	0.000	0.000	8.175	8.165	65.000	SDI_Keeper_ADK
											8.384	8,375	65.000	(2) SDI_Keeper_ADK
4500,000 4600,000	0.000		3499.041 3599.041	8.382 8.494	0.000	8.488	0.000	6.036		0.000	8.495	8.488		(2) MWD+IFR1+MS
. Notice A. I. Act and Color Services														
4700.000	0.000		3699.041	8.530		8.525	0.000	6.325		0.000	8.551	8.504		MWD+IFR1+MS
4800,959	0.000	0.000	3800,000	8.583	0.000	8.577	0.000	6.475	0.000	0.000	8.624	8,535		MWD+IFR1+MS
4900.000	1.981	220.000	3899.021	8.696	-0.000	8.582	0.000	6.624	0.000	0.000	8.698	8.580	-42.356	MWD+IFR1+MS
5000,000	3.981	220.000	3998.881	9.049	-0.000	8,658	0.000	6.777	0.000	0.000	9.074	8,636	-37.344	MWD+IFR1+MS
5100,000	5,981	220,000	4098.498	9.400	-0.000	8.749	0.000	6.933	0.000	0.000	9,452	8,707	-36.581	MWD+IFR1+MS
5200.000	7.981	220.000	4197.752	9.747	-0.000	8.853	0.000	7.093	0.000	0.000	9.827	8.792	-36.271	MWD+IFR1+MS
5300.000	9.981	220.000	4296.521	10.089	-0.000	8.972	0.000	7.257	0.000	0.000	10.200	8.891	-36.097	MWD+IFR1+MS
														1

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Net Proposition														
5400.000	11.981		4394.685		-0.000		0.000		0.000		10.570	9.005		MWD+IFR1+MS
5500.000	13.981		4492.124		-0.000	9.250	0.000		0.000		10.938	9,133		MWD+IFR1+MS
5550,959	15.000		4541.462		-0.000		0.000		0.000		11,036			MWD+IFR1+MS
5600.000	15.000		4588.832		-0.000	9.394			0.000		11.103			MWD+IFR1+MS
5700,000	15.000	220.000	4685.424	11.059	-0.000	9.558	0.000	7.936	0.000	0.000	11.246	9.437		MWD+IFR1+MS
5800.000	15.000	220.000	4782,017	11.224	-0.000	9.744	0.000	8.109	0.000	0.000	11,411	9,616	-35.170	MWD+IFR1+MS
5850,959	15.000	220,000	4831,240	11.307	-0.000	9.836	0.000	8.198	0.000	0.000	11.491	9.708		MWD+IFR1+MS
5900.000	15.763	222,326	4878.524	11.408	-0.000	9.892	0.000	8.284	0.000	0.000	11.574	9.800	-35.029	MWD+IFR1+MS
6000,000	17.384	226.435	4974.369	11.677	-0.000	10.090	0.000	8.468	0.000	0.000	11.838	10.027	-33.224	MWD+IFR1+MS
6100,000	19.076	229,850	5069,350	12.015	-0.000	10.344	0.000	8,666	0.000	0.000	12,190	10.284	-30,330	MWD+IFR1+MS
6160,881	20.133	231,654	5126.702	12.164	-0.000	10.466	0.000	8.779	0.000	0.000	12.344	10.421	-29.882	MWD+IFR1+MS
6200,000	20.133	231,654	5163.430	12.245	-0.000	10.553	0.000	8.851	0.000	0.000	12,422	10.507	-29.867	MWD+IFR1+MS
6300.000	20.133	231.654	5257,320	12.460	-0.000	10.789	0.000	9.040	0.000	0.000	12.623	10.743	-29.707	MWD+IFR1+MS
6400.000	20.133	231.654	5351.210	12.693	-0.000	11.043	0.000	9.234	0.000	0.000	12.844	10.994	-29.332	MWD+IFR1+MS
6500,000	20.133	231,654	5445.100	12,937	-0.000	11,307	0.000	9.433	0.000	0.000	13.074	11,254	-28,965	MWD+IFR1+MS
6600,000	20.133	231.654	5538,990	13,190	-0.000	11,578	0.000	9.635	0.000	0.000	13.312	11.523	-28.605	MWD+IFR1+MS
6700.000	20.133	231.654	5632.879	13.453	-0.000	11.858	0.000	9.840	0.000	0.000	13.560	11.800	-28.254	MWD+IFR1+MS
6800.000	20.133	231,654	5726.769	13.724	-0.000	12.145	0.000	10.049	0.000	0.000	13,815	12.085	-27.912	MWD+IFR1+MS
6900,000	20.133	231.654	5820.659	14.004	-0.000	12,439	0.000	10,262	0.000	0.000	14.078	12.376	-27.579	MWD+IFR1+MS
7000.000	20.133	231,654	5914.549	14.291	-0.000	12.739	0.000	10.478	0.000	0.000	14,349	12.673	-27.255	MWD+IFR1+MS
7100.000	20.133	231.654	6008.439	14.585	-0.000	13.045	0.000	10.697	0.000	0.000	14.626	12.977	-26.940	MWD+IFR1+MS
7200,000	20.133	231.654	6102.329	14.886	-0.000	13.357	0.000	10.920	0.000	0.000	14.910	13.286	-26.634	MWD+IFR1+MS
7300,000	20.133	231,654	6196,219	15,194	-0.000	13.673	0.000	11.145	0.000	0.000	15,199	13,600	-26,339	MWD+IFR1+MS
7400,000	20.133	231.654	6290,109	15,508	-0.000	13,995	0.000	11.374	0.000	0.000	15,495	13.919	-26.053	MWD+IFR1+MS
7500.000	20.133	231.654	6383.999	15.827	-0.000	14.321	0.000	11.606	0.000	0.000	15.796	14.243	-25.778	MWD+IFR1+MS
7600.000	20.133	231.654	6477.889	16,152	-0.000	14.650	0.000	11.840	0.000	0.000	16,102	14.571	-25.512	MWD+IFR1+MS
7700.000	20.133	231.654	6571.779	16.481	-0.000	14.984	0.000	12.078	0.000	0.000	16.413	14.903	-25.257	MWD+IFR1+MS
7800,000	20.133	231.654	6665,668	16.816	-0.000	15.322	0.000	12,319	0.000	0.000	16.729	15.239	-25.012	MWD+IFR1+MS
7900.000	20,133	231,654	6759,558	17,155	-0.000	15,663	0.000	12.562	0.000	0.000	17.049	15,578	-24.778	MWD+IFR1+MS
8000,000	20.133	231.654	6853.448	17.498	-0.000	16,006	0.000	12.809	0.000	0.000	17.373	15.920	-24.554	MWD+IFR1+MS
8100.000	20.133	231.654	6947.338	17.845	-0.000	16,353	0.000	13.058	0.000	0.000	17.701	16.266	-24.341	MWD+IFR1+MS
8200,000	20.133	231.654	7041.228	18,195	-0.000	16.703	0.000	13,310	0.000	0.000	18,033	16.614	-24.138	MWD+IFR1+MS
8300,000	20.133	231.654	7135.118	18.549	-0.000	17.055	0.000	13,565	0.000	0.000	18.368	16.965	-23.946	MWD+IFR1+MS
8400.000	20.133	231.654	7229.008	18.907	-0.000	17.410	0.000	13.822	0.000	0.000	18.707	17.319	-23.765	MWD+IFR1+MS
8500,000	20.133	231.654	7322.898	19.268	-0.000	17.767	0.000	14.082	0.000	0.000	19.048	17.675	-23.594	MWD+IFR1+MS
8600.000	20.133	231,654	7416.788	19.631	-0.000	18.127	0.000	14.345	0.000	0.000	19,393	18.033	-23.434	MWD+IFR1+MS
8700,000	20.133	231.654	7510,678	19,998	-0.000	18,488	0.000	14.610	0.000	0.000	19,741	18,394	-23,285	MWD+IFR1+MS
8800.000	20.133	231.654	7604.568	20.367	-0.000	18.851	0.000	14.878	0.000	0.000	20.091	18.756	-23.146	MWD+IFR1+MS
8900.000	20.133	231.654	7698.457	20.738	-0.000	19.216	0.000	15.149	0.000	0.000	20.444	19.121	-23.018	MWD+IFR1+MS
9000.000	20.133	231.654	7792.347	21,112	-0.000	19.583	0.000	15.422	0.000	0.000	20,799	19.487	-22.901	MWD+IFR1+MS
9100.000	20,133	231,654	7886.237	21.488	-0.000	19.951	0.000	15.698	0.000	0.000	21,157	19.855	-22.794	MWD+IFR1+MS
9200,000	20.133	231,654	7980.127	21,866	-0.000	20,321	0.000	15.976	0.000	0.000	21,517	20.224	-22.697	MWD+IFR1+MS
9300,000	20,133	231.654	8074.017	22.247	-0.000	20.693	0.000	16.257	0.000	0.000	21.879	20.596	-22.610	MWD+IFR1+MS
9400.000	20.133	231.654	8167.907	22.629	-0.000	21.065	0.000	16.540	0.000	0.000	22.243	20.968	-22.534	MWD+IFR1+MS
9500,000	20,133	231,654	8261.797	23.013	-0.000	21.439	0.000	16.826	0.000	0.000	22,609	21,342	-22.468	MWD+IFR1+MS
9600,000	20.133	231,654	8355,687	23,399	-0.000	21,815	0.000	17.115	0.000	0.000	22,976	21,717	-22,411	MWD+IFR1+MS
9700.000	20.133	231.654	8449.577	23.786	-0.000	22.191	0.000	17.406	0.000	0.000	23,346	22.094	-22.365	MWD+IFR1+MS
9800.000	20.133	231.654	8543.467	24.175	-0.000	22.569	0.000	17.699	0.000	0.000	23,717	22.471	-22.328	MWD+IFR1+MS
9900.000	20.133	231.654	8637.357	24.566	-0.000	22.947	0.000	17.995	0.000	0.000	24.090	22.850	-22.301	MWD+IFR1+MS
10000.000	20.133	231.654	8731.246	24,958	-0.000	23.327	0.000	18.293	0.000	0.000	24.465	23.230	-22.283	MWD+IFR1+MS
10078,748	20.133	231.654	8805.183	25,265	-0.000	23.624	0.000	18.530	0.000	0.000	24.758	23.529	-22,361	MWD+IFR1+MS
10100.000	18.553	227.358	8825.236	25.305	-0.000	23.759	0.000	18.595	0.000	0.000	24.836	23.609	-22.391	MWD+IFR1+MS
10200.000	13.262	195.595	8921.548	25.126	-0.000	25.294	0.000	18.920	0.000	0.000	25,950	23.971	-20,080	MWD+IFR1+MS
10300.000			9018.915	24,196	0.000	28.537	-0.000	19.223	0.000	0.000	28,556	24.296	-23,091	MWD+IFR1+MS

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10400.000	20.716	126,755	9114.378	24.551	0.000	29.884	-0.000	19.543	0.000	0.000	30,344	25.152	-35.162	MWD+IFR1+MS
10500.000	29.166	113.877	9205.036	25.379	0.000	30,806	-0.000	20.143	0.000	0.000	31.111	27.227	130.646	MWD+IFR1+MS
10600.000	38.322	106.573	9288.134	26.137	0.000	31.390	-0.000	21.165	0.000	0.000	31.481	29,028	117.885	MWD+IFR1+MS
10700.000	47.776	101.773	9361.148	26,873	0.000	31,810	-0.000	22,628	0.000	0.000	31.810	30.254	101.672	MWD+IFR1+MS
10800.000	57.377	98.241	9421.860	27,697	0.000	32.134	-0.000	24.474	0.000	0.000	32,222	30,882	83.245	MWD+IFR1+MS
10900.000	67.058	95.402	9468.423	28.699	0.000	32,391	-0.000	26,595	0.000	0.000	32.613	31.114	72.500	MWD+IFR1+MS
11000.000	76.782	92,946	9499.425	29.925	0.000	32.595	-0.000	28.862	0.000	0.000	32.863	31,181	69.146	MWD+IFR1+MS
11100.000	86.528	90.679	9513.922	31.375	0.000	32,755	-0.000	31.144	0.000	0.000	32.977	31.199	69.734	MWD+IFR1+MS
11135,600	90.000	89.891	9515,000	31.334	-0.000	32.769	0.000	31.334	0.000	0.000	32,962	31,211	70,281	MWD+IFR1+MS
11200.000	90.000	89.891	9515.000	31.499	-0.000	32.761	0.000	31.499	0.000	0.000	32.930	31.230	71.291	MWD+IFR1+MS
11300.000	90.000	89.891	9515.000	31.723	-0.000	32.766	0.000	31.723	0.000	0.000	32.899	31.259	73.123	MWD+IFR1+MS
11400.000	90.000	89,891	9515,000	31.966	-0.000	32.792	0.000	31.966	0.000	0.000	32.892	31,288	75.276	MWD+IFR1+MS
11500,000	90.000	89.891	9515.000	32,226	-0.000	32,839	0.000	32,226	0.000	0.000	32,909	31,313	77.658	MWD+IFR1+MS
11600.000	90.000	89.891	9515,000	32.504	-0.000	32.906	0.000	32.504	0.000	0.000	32,951	31,334	80.163	MWD+IFR1+MS
11700.000	90.000	89.891	9515.000	32.797	-0.000	32,993	0.000	32,797	0.000	0.000	33.019	31.350	82.666	MWD+IFR1+MS
11800.000	90.000	89.891	9515.000	33.107	-0.000	33.100	0.000	33.107	0.000	0.000	33.112	31.362	85.051	MWD+IFR1+MS
11900.000	90.000	89.891	9515.000	33,433	-0.000	33,227	0.000	33,433	0.000	0.000	33,231	31,369	87,232	MWD+IFR1+MS
12000.000	90.000	89.891	9515.000	33.773	-0.000	33,373	0.000	33,773	0.000	0.000	33,373	31.372	89.157	MWD+IFR1+MS
12100.000	90.000	89.891	9515.000	34.128	-0.000	33.539	0.000	34.128	0.000	0.000	33,539	31.372	90.809	MWD+IFR1+MS
12200,000	90.000	89.891	9515.000	34.497	-0.000	33,723	0.000	34.497	0.000	0.000	33.727	31.370	92.197	MWD+IFR1+MS
12300.000	90.000	89.891	9515.000	34.880	-0.000	33.926	0.000	34.880	0.000	0.000	33.935	31.367	93.345	MWD+IFR1+MS
12400.000	90.000	89,891	9515,000	35.277	-0.000	34.147	0.000	35,277	0.000	0.000	34,163	31,364	94.280	MWD+IFR1+MS
12500,000	90.000	89.891	9515.000	35,686	-0.000	34.386	0.000	35.686	0.000	0.000	34.410	31,360	95.034	MWD+IFR1+MS
12600.000	90.000	89.891	9515.000	36.108	-0.000	34.643	0.000	36.108	0.000	0.000	34.675	31.356	95.636	MWD+IFR1+MS
12700.000	90.000	89.891	9515.000	36.541	-0.000	34.917	0.000	36.541	0.000	0.000	34.957	31.353	96.110	MWD+IFR1+MS
12800,000	90.000	89,891	9515.000	36,986	-0.000	35,208	0.000	36,986	0.000	0.000	35,256	31,351	96.480	MWD+IFR1+MS
12900.000	90.000	89,891	9515.000	37.443	-0.000	35.515	0.000	37.443	0.000	0.000	35,572	31,351	96.764	MWD+IFR1+MS
13000,000	90.000	89.891	9515.000	37.910	-0.000	35.838	0.000	37.910	0.000	0.000	35,903	31,351	96.977	MWD+IFR1+MS
13100.000	90.000	89.891	9515.000	38.387	-0.000	36,177	0.000	38,387	0.000	0.000	36.249	31.352	97.132	MWD+IFR1+MS
13200,000	90.000	89.891	9515.000	38.875	-0.000	36,530	0.000	38.875	0.000	0.000	36,610	31,355	97.240	MWD+IFR1+MS
13300,000	90.000	89,891	9515.000	39,372	-0.000	36,899	0.000	39,372	0.000	0.000	36,985	31,360	97,308	MWD+IFR1+MS
13400.000	90.000	89.891	9515.000	39.878	-0.000	37.281	0.000	39.878	0.000	0.000	37.374	31.365	97.345	MWD+IFR1+MS
13500.000	90.000	89.891	9515.000	40.393	-0.000	37.678	0.000	40.393	0.000	0.000	37.777	31.372	97.356	MWD+IFR1+MS
13600,000	90,000	89,891	9515,000	40.917	-0.000	38,087	0.000	40.917	0.000	0.000	38,192	31,381	97.346	MWD+IFR1+MS
13700.000	90,000		9515.000	41.449	-0.000	38,510	0.000	41.449	0.000	0.000	38,620	31.391		MWD+IFR1+MS
13800.000	90.000	89.891	9515.000	41.989	-0.000	38.945	0.000	41.989	0.000	0.000	39,060	31,402	97.277	MWD+IFR1+MS
13900.000	90.000	89.891	9515.000	42.537	-0.000	39,392	0.000	42.537	0.000	0.000	39.511	31.415	97.225	MWD+IFR1+MS
14000.000	90.000	89.891	9515.000	43.092	-0.000	39.851	0.000	43.092	0.000		39.974			MWD+IFR1+MS
14100.000	90.000	89,891	9515.000	43.654	-0.000	40,322	0.000	43,654	0.000	0.000	40.448	31.444		MWD+IFR1+MS
14200.000	90.000		9515.000	44.222			0.000	44.222			40,932			MWD+IFR1+MS
14300.000	90.000	89.891	9515.000	44.798	-0.000	41.295	0.000	44.798			41.427			MWD+IFR1+MS
14400.000	90.000	89.891	9515.000	45.379			0.000	45.379			41,931			MWD+IFR1+MS
14500.000	90.000	89.891	9515.000	45.967	-0.000	42.308	0.000	45.967	0.000		42.445			MWD+IFR1+MS
14600,000	90.000	89.891	9515.000	46,560	-0.000	42.829	0.000	46,560	0.000	0.000	42,968	31.541		MWD+IFR1+MS
14700.000	90.000	89.891	9515.000	47.159	-0.000	43.359	0.000	47.159	0.000		43,500			MWD+IFR1+MS
14800.000	90.000		9515.000	47.763		43,898	0.000	47.763			44.041			MWD+IFR1+MS
14900.000	90.000		9515,000	48.373		44.445	0.000	48.373			44.589			MWD+IFR1+MS
15000.000	90.000		9515.000	48.988		45.001	0.000	48.988			45.146			MWD+IFR1+MS
15100.000	90.000		9515.000	49.607		45.564		49.607			45.711			MWD+IFR1+MS
15200.000	90.000		9515.000	50.231		46.135	0.000	50.231			46.282			MWD+IFR1+MS
15300.000	90.000		9515.000	50.859		46.713	0.000	50.859			46,861			MWD+IFR1+MS
15400.000	90.000		9515,000	51.492			0.000	51.492			47.447			MWD+IFR1+MS
15500.000	90.000	89,891	9515,000	52.129	-0.000	47.891	0.000	52.129	0.000	0.000	48.039	31,795	95.914	MWD+IFR1+MS
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15600.000	90.000	89.891	9515.000	52.770	-0.000	48.489	0.000	52.770	0.000	0.000	48.638	31.829	95.832	MWD+IFR1+MS
15700,000	90.000	89.891	9515,000	53,414	-0.000	49.094	0.000	53.414	0.000	0.000	49,243	31,864	95.751	MWD+IFR1+MS
15800,000	90,000	89.891	9515,000	54.063	-0.000	49.704	0.000	54.063	0.000	0.000	49.854	31,900	95.671	MWD+IFR1+MS
15900.000	90.000	89.891	9515.000	54.715	-0.000	50.321	0.000	54.715	0.000	0.000	50.471	31.938	95.593	MWD+IFR1+MS
16000.000	90.000	89.891	9515.000	55.370	-0.000	50.943	0.000	55.370	0.000	0.000	51.093	31.976	95.516	MWD+IFR1+MS
16100.000	90.000	89,891	9515.000	56,029	-0.000	51.571	0.000	56.029	0.000	0.000	51.720	32,016	95.440	MWD+IFR1+MS
16200.000	90.000	89.891	9515.000	56.691	-0.000	52.204	0.000	56.691	0.000	0.000	52,353	32.057	95,366	MWD+IFR1+MS
16300.000	90.000	89.891	9515.000	57.356	-0.000	52.841	0.000	57.356	0.000	0.000	52.990	32.099	95.294	MWD+IFR1+MS
16400.000	90.000	89.891	9515.000	58.024	-0.000	53.484	0.000	58.024	0.000	0.000	53,633	32.142	95,223	MWD+IFR1+MS
16500.000	90.000	89,891	9515,000	58,695	-0.000	54.131	0.000	58,695	0.000	0.000	54.280	32.186	95.153	MWD+IFR1+MS
16600,000	90.000	89.891	9515.000	59,369	-0.000	54.783	0.000	59,369	0.000	0.000	54,931	32,231	95,085	MWD+IFR1+MS
16700.000	90.000	89,891	9515.000	60.045	-0.000	55.440	0.000	60.045	0.000	0.000	55,587	32.277	95.018	MWD+IFR1+MS
16800.000	90.000	89.891	9515.000	60.724	-0.000	56.100	0.000	60.724	0.000	0.000	56.247	32.324	94.952	MWD+IFR1+MS
16900.000	90.000	89.891	9515.000	61.406	-0.000	56.764	0.000	61.406	0.000	0.000	56.911	32.372	94.888	MWD+IFR1+MS
17000.000	90.000	89,891	9515.000	62,090	-0.000	57.433	0.000	62.090	0.000	0.000	57,578	32,422	94.826	MWD+IFR1+MS
17100.000	90.000	89.891	9515.000	62.776	-0.000	58.105	0.000	62.776	0.000	0.000	58.250	32.472	94.764	MWD+IFR1+MS
17200.000	90.000	89.891	9515.000	63.465	-0.000	58.781	0.000	63.465	0.000	0.000	58.925	32.523	94.704	MWD+IFR1+MS
17300.000	90.000	89.891	9515.000	64.155	-0.000	59.460	0.000	64.155	0.000	0.000	59.604	32.575	94.645	MWD+IFR1+MS
17400.000	90.000	89.891	9515.000	64.848	-0.000	60.143	0.000	64.848	0.000	0.000	60.286	32,629	94.587	MWD+IFR1+MS
17500.000	90.000	89.891	9515.000	65.543	-0.000	60.829	0.000	65.543	0.000	0.000	60,971	32.683	94.531	MWD+IFR1+MS
17600.000	90.000	89.891	9515.000	66.240	-0.000	61.518	0.000	66.240	0.000	0.000	61.659	32.738	94.475	MWD+IFR1+MS
17700.000	90.000	89.891	9515.000	66.939	-0.000	62.210	0.000	66.939	0.000	0.000	62.351	32.794	94.421	MWD+IFR1+MS
17800,000	90.000	89,891	9515.000	67.640	-0.000	62,905	0.000	67.640	0.000	0.000	63,045	32,852	94.368	MWD+IFR1+MS
17900,000	90,000	89.891	9515.000	68,343	-0.000	63,603	0.000	68.343	0.000	0.000	63,742	32,910	94.316	MWD+IFR1+MS
18000.000	90.000	89.891	9515.000	69.047	-0.000	64.304	0.000	69.047	0.000	0.000	64.442	32.969	94.265	MWD+IFR1+MS
18100.000	90.000	89.891	9515.000	69.754	-0.000	65.007	0.000	69.754	0.000	0.000	65.145	33.029	94.216	MWD+IFR1+MS
18200.000	90.000	89.891	9515.000	70.462	-0.000	65.714	0.000	70.462	0.000	0.000	65.851	33.090	94.167	MWD+IFR1+MS
18300.000	90.000	89.891	9515.000	71.171	-0.000	66.422	0.000	71.171	0.000	0.000	66,558	33.152	94.119	MWD+IFR1+MS
18400.000	90,000	89.891	9515,000	71.882	-0.000	67.133	0.000	71.882	0.000	0.000	67,269	33,215	94.072	MWD+IFR1+MS
18500.000	90.000	89.891	9515.000	72.595	-0.000	67.847	0.000	72.595	0.000	0.000	67.981	33.279	94.026	MWD+IFR1+MS
18600.000	90.000	89.891	9515.000	73.309	-0.000	68.562	0.000	73.309	0.000	0.000	68,696	33.343	93.981	MWD+IFR1+MS
18700.000	90.000	89.891	9515.000	74.024	-0,000	69,280	0.000	74.024	0.000	0.000	69,413	33,409	93,937	MWD+IFR1+MS
18800,000	90.000	89.891	9515.000	74.741	-0.000	70.000	0.000	74.741	0.000	0.000	70.133	33.476	93.894	MWD+IFR1+MS
18900.000	90.000	89.891	9515.000	75.459	-0.000	70.723	0.000	75.459	0.000	0.000	70.854	33.543	93.852	MWD+IFR1+MS
19000.000	90.000	89.891	9515.000	76.179	-0.000	71.447	0.000	76.179	0.000	0.000	71.577	33,611	93.810	MWD+IFR1+MS
19100.000	90.000	89.891	9515.000	76.899	-0.000	72.173	0.000	76.899	0.000	0.000	72,303	33,681	93.769	MWD+IFR1+MS
19200,000	90.000	89.891	9515,000	77.621	-0.000	72.901	0.000	77.621	0.000	0.000	73,030	33.751	93,729	MWD+IFR1+MS
19300.000	90.000	89.891	9515.000	78.345	-0.000	73.631	0.000	78.345	0.000	0.000	73.759	33.822	93.690	MWD+IFR1+MS
19400.000	90.000	89.891	9515.000	79.069	-0.000	74.363	0.000	79.069	0.000	0.000	74.490	33.894	93.652	MWD+IFR1+MS
19500,000	90.000	89.891	9515.000	79.795	-0.000	75.096	0.000	79.795	0.000	0.000	75.222	33,966	93.614	MWD+IFR1+MS
19600.000	90.000	89.891	9515.000	80.521	-0.000	75.831	0.000	80,521	0.000	0.000	75,957	34.040	93.577	MWD+IFR1+MS
19700.000	90.000	89.891	9515,000	81.249	-0,000	76,568	0.000	81.249	0.000	0.000	76,693	34,114	93,540	MWD+IFR1+MS
19800.000	90.000	89.891	9515.000	81.978	-0.000	77.306	0.000	81.978	0.000	0.000	77.430	34.189	93.505	MWD+IFR1+MS
19900.000	90.000	89.891	9515.000	82.708	-0.000	78.046	0.000	82.708	0.000	0.000	78.169	34,265	93.470	MWD+IFR1+MS
20000.000	90,000	89.891	9515,000	83.438	-0.000	78.788	0.000	83,438	0.000	0.000	78,910	34.342	93,435	MWD+IFR1+MS
20100.000	90.000	89.891	9515.000	84.170	-0.000	79.530	0.000	84.170	0.000	0.000	79,652	34.420	93.402	MWD+IFR1+MS
20200.000	90.000	89.891	9515.000	84.903	-0.000	80.275	0.000	84.903	0.000	0.000	80.395	34.499	93.368	MWD+IFR1+MS
20300.000	90.000	89.891	9515.000	85.637	-0.000	81.020	0.000	85.637	0.000	0.000	81.140	34.578	93.336	MWD+IFR1+MS
20400.000	90.000	89.891	9515.000	86.371	-0.000	81.767	0.000	86.371	0.000	0.000	81.887	34.658	93.304	MWD+IFR1+MS
20500.000	90.000	89.891	9515,000	87.107	-0.000	82.516	0.000	87.107	0.000	0.000	82,634	34.739	93.273	MWD+IFR1+MS
20600,000	90,000	89.891	9515.000	87.843	-0.000	83.265	0.000	87.843	0.000	0.000	83,383	34.821	93.242	MWD+IFR1+MS
20700.000	90.000	89.891	9515.000	88.580	-0.000	84.016	0.000	88.580	0.000	0.000	84.133	34.903	93.211	MWD+IFR1+MS
20800.000	90.000	89.891	9515.000	89,318	-0.000	84.768	0.000	89.318	0.000	0.000	84.884	34.987	93,181	MWD+IFR1+MS
20900.000	90.000	89.891	9515,000	90.057	-0.000	85.521	0.000	90.057	0.000	0.000	85,637	35.071	93.152	MWD+IFR1+MS
KSP														

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21000,000 90,000 89,891 9515,000 90.796 -0,000 86,276 0.000 90.796 0.000 0.000 86,390 35,156 93,123 MWD+IFR1+MS 21051,918 90.000 89,891 9515,000 91.180 -0,000 86,667 0.000 91.180 0.000 0.000 86,781 35,200 93,109 MWD+IFR1+MS

Plan Targets	JRU DI 1 700H				
	Measured Depth	Grid Northing	Grid Easting	TVD MSL	Target Shape
Target Name	(ft)	(ft)	(ft)	(ft)	
KOP 9	10261.91	501362.60	638293,60	5539.51	CIRCLE
FTP 9	11135.59	501369.40	638866.60	6322.00	RECTANGLE
BHL 9	21051.92	501388.30	648782.90	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

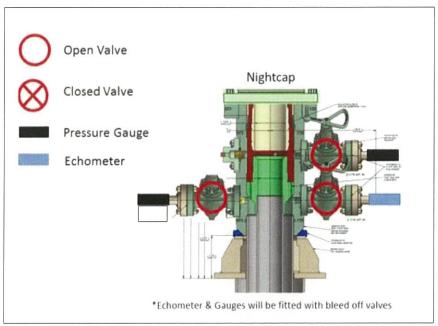
The operational sequence will be as follows. If a well control event occurs, the BLM will be contacted for approval prior to conducting offline cementing operations.

- 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

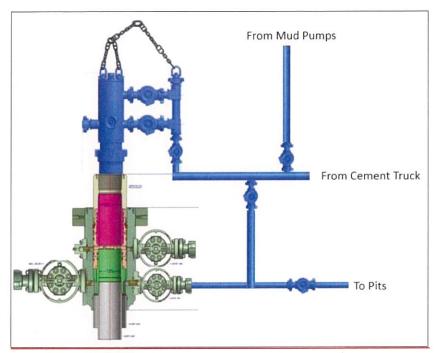
XTO Permian Operating, LLC Offline Cementing Variance Request



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.

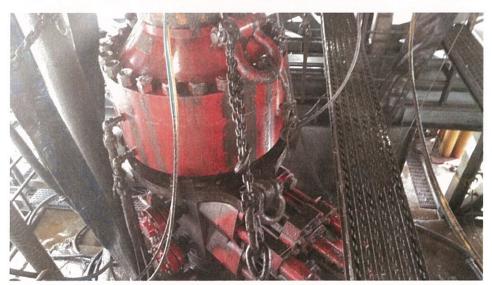


Figure 1: Winch System attached to BOP Stack



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.

ole C.4—Initial Pressure Te	Pressure Test—High Pressure ²⁰						
Pressure Test—Low Pressure ^{ac} psig (MPa)	Change Out of Component, Elastomer, or Ring Gasket	No Change Out of Component, Elastomer or Ring Gasket					
250 to 350 (1.72 to 2.41)	RWP of annular preventer	MASP or 70% annular RWP, whichever is lower.					
250 to 350 (1.72 to 2.41)	RWP of ram preventer or wellhead system, whichever is lower	ITP					
250 to 350 (1.72 to 2.41)	RWP of side outlet valve or wellhead system, whichever is lower	ITP					
250 to 350 (1.72 to 2.41)	RWP of ram preventers or wellhead system, whichever is lower	ITP					
250 to 350 (1.72 to 2.41)	RWP of valve(s), line(s), or N whichever is lower	ASP for the well program,					
250 to 350 (1.72 to 2.41)	MASP for the well program						
ssure tested on the largest and sma from one wellhead to another within	allest OD drill pipe to be used in well the 21 days, pressure testing is req	program.					
	Pressure Test—Low Pressure 25 psig (MPa) 250 to 350 (1.72 to 2.41) all be a minimum of five minutes during the evaluation period. The psaure tested on the largest and smirriom one wellhead to another within from one wellhead to another within when the integrity of a pressure secure.	Pressure Test—Low Pressure* Pressure Test—Change Out of Component. Elastomer, or Ring Gasket 250 to 350 (1.72 to 2.41) RWP of annular preventer 250 to 350 (1.72 to 2.41) RWP of ram preventer or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of side outlet valve or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of ram preventers or wellhead system, whichever is lower 250 to 350 (1.72 to 2.41) RWP of valve(s), line(s), or finite valve is lower 250 to 350 (1.72 to 2.41) MASP for the well program					

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.

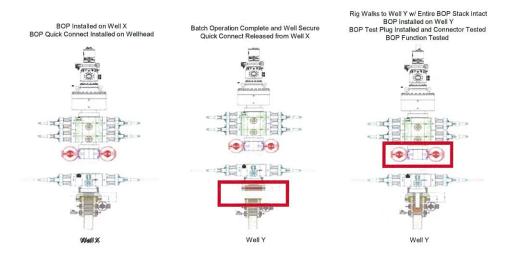
XTO Energy feels break testing and our current procedures meet the intent of OOGO No. 2 and often exceed it. There has been no evidence that break testing results in more components failing than seen on full BOP tests. XTO Energy's internal standards requires complete BOPE tests more often than that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

- 1. 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.
- 3. After performing a complete BOP test on the first well, the intermediate hole section will be drilled and cased, two breaks would be made on the BOP equipment.
 - a. Between the HCV valve and choke line connection
 - b. Between the BOP quick connect and the wellhead
- 4. The BOP is then lifted and removed from the wellhead by a hydraulic system.
- 5. After skidding to the next well, the BOP is moved to the wellhead by the same hydraulic system and installed.
- 6. The connections mentioned in 3a and 3b will then be reconnected.
- 7. Install test plug into the wellhead using test joint or drill pipe.
- 8. A shell test is performed against the upper pipe rams testing the two breaks.
- 9. The shell test will consist of a 250 psi low test and a high test to the value submitted in the APD or Sundry (e.g. 5,000 psi or 10,000psi).
- 10. Function test will be performed on the following components: lower pipe rams, blind rams, and annular.

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

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



Summary

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

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

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

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

