Form 3160-5 (June 2015)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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

5. Lease Serial No. NMNM0307337

 1 1	IVIIII	/103	013	J,	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use the abandoned we	is form for proposals to II. Use form 3160-3 (AP	drill or to re-enter of the dr	an als.		6. If Indian, Allottee o	r Tribe Name
SUBMIT IN	TRIPLICATE - Other ins	tructions on page 2	?		7. If Unit or CA/Agree 891000558X	ement, Name and/or No.
1. Type of Well					8. Well Name and No.	
☑ Oil Well ☐ Gas Well ☐ Oth					JAMES RANCH L	JNIT DI2 191H
Name of Operator BOPCO LP		KELLY KARDOS os@xtoenergy.com			9. API Well No. 30-015-43259-0	0-X1
3a. Address 6401 HOLIDAY HILL RD BLD MIDLAND, TX 79707	G 5 SUITE 200	3b. Phone No. (includ Ph: 432-620-4374			10. Field and Pool or I UNDESIGNATE	Exploratory Area ED
4. Location of Well (Footage, Sec., T	, R., M., or Survey Description)	·		11. County or Parish,	State
Sec 25 T22S R30E NESW 26 32.214631 N Lat, 103.500975					EDDY COUNTY	/, NM
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NA	TURE OF	NOTICE, I	REPORT, OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
Notice of Intent	☐ Acidize	☐ Deepen		☐ Production	on (Start/Resume)	☐ Water Shut-Off
_	☐ Alter Casing	☐ Hydraulic F	racturing	☐ Reclama	tion	■ Well Integrity
☐ Subsequent Report	☐ Casing Repair	■ New Constr	ruction	☐ Recompl	ete	Other
☐ Final Abandonment Notice	☐ Change Plans	☐ Plug and A	oandon	☐ Tempora	rily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back		☐ Water Di	sposal	
If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involvectesting has been completed. Final Aldetermined that the site is ready for f BOPCO, LP requests approve	rk will be performed or provide d operations. If the operation re bandonment Notices must be fil final inspection.	the Bond No. on file wit esults in a multiple compl- led only after all requiren	th BLM/BIA. etion or reconnents, includir	Required subs	sequent reports must be ew interval, a Form 316 , have been completed a	filed within 30 days 0-4 must be filed once
C102	3 3	ŭ			ARTES	IA DISTRICT
Drilling Program BOP/Choke Design Variance Directional Drill Plan Flex Hose Variance	Carlsbad OCD		Ĉice n		MAR	28 2018
	Carlsbad	rielu On	SEE	ATTA	CHED FOR	
Please see attached	OCD	Artesia	CON	IDITIO	NS OF APP	ROVAL
14. I hereby certify that the foregoing is	s true and correct. Electronic Submission #	407970 verified by the	e BLM Well	Information	Svstem	
Con	For I nmitted to AFMSS for proc	BOPCOLP. seint to th	ne Carlsbad			
Name (Printed/Typed) KELLY KA		Title			ORDINATOR	
Signature (Electronic S		DR FEDERAL OR	03/15/20			
	THIS SPACE PO	JR FEDERAL OR	STATE C	DEFICE US	· C	
Approved By ZOTA STEVENS		TitleF	<u>'ETROLEL</u>	JM ENGINE	ER	Date 03/21/20
Conditions of approval, if any, are attache certify that the applicant holds legal or equal which would entitle the applicant to condu	uitable title to those rights in the	e subject lease	e Carlsbad			
Fitle 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it a	crime for any person kno	owingly and v	villfully to mal	te to any department or	agency of the United

(Instructions on page 2) ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RNP 3-29-18

REACTE CONSTRUCTION

2,440

EAST

<u>Pistrict 1</u>
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
<u>Pistrict 11</u>
811 S. Fist St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170

District IV

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

API Number

28

³ Joint or Infili

12 Dedicated Acres

400

22 S

30 E

4 Consolidation Code

State of New Mexico

Energy, Minerals & Natural Resources Departmen 2018 OIL CONSERVATION DIVISION

1220 South St. Francis Dr. RECEIVER Santa Fe, NM 87505

SOUTH

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

AMENDED REPORT

District Office

EDDY

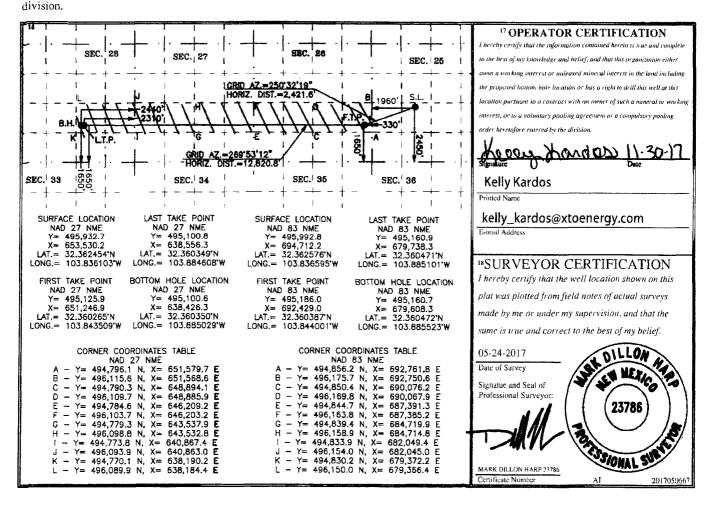
WELL LOCATION AND ACREAGE DEDICATION PLAT

² Pool Code

30-015-4	43259		4	40295		LOS MENDANOS (BONE SPRING)							
									Well Number 191H				
⁷ одкід 260737	OGRID No. 8 Operator Name BOPCO, L.P.								Elevation 3343'				
					10 Surface I	Location							
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
K	25	22 S	30 E	l	2,450	SOUTH	1,960	WEST	EDDY				
			11 Bott	tom Hol	e Location If	Different Fron	n Surface						
									County				

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the

1,650



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

XTO Energy Inc.

James Ranch Unit DI2 191H

Projected TD: 26076' MD / 11098' TVD

SHL: 2450' FSL & 1960' FWL , Section 25, T22S, R30E

BHL: 1650' FSL & 2440' FEL , Section 28, 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	370'	Water
Top of Salt	670'	Water
Base of Salt	3618'	Water
Delaware / Lamar	3825'	Water
Bone Spring	7700'	Water/Oil/Gas
1st Bone Spring Ss	8760'	Water/Oil/Gas
2nd Bone Spring Ss	9560'	Water/Oil/Gas
3rd Bone Spring Ss	10560'	Water/Oil/Gas
Target/Land Curve	11098'	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 13-3/8 inch casing @ 650' and circulating cement back to surface. The salt will be isolated by setting 9-5/8 inch casing at 8350' with a DV tool to be set @ 3810'. Cement will be circulated to surface. An 8-3/4 inch curve and 8-1/2 inch lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back to surface.

3. Casing Design

Hole Size	Depth	OD Csg	Weight (#)	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 650	13-3/8"	54.5	STC	J-55	New	1.07	3.80	14.51
12-1/4"	0' 8350'	9-5/8"	40	LTC	L-80	New	1.82	1.20	2.18
8-3/4" x 8-1/2"	0' ~ 26076'	5-1/2"	17	втс	P-110	New	1.12	1.34	1.93

- · XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.
- 9-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- \cdot 5-1/2" tension calculated using vertical hanging weight plus the lateral weight multiplied by a friction factor of 0.35

WELLHEAD:

Permanent Wellhead - GE RSH Multibowl System

- A. Starting Head: 13-5/8" 5M top flange x 13-3/8" SOW bottom
- B. Tubing Head: 13-5/8" 5M bottom flange x 7-1/16" 10M top flange
 - Wellhead will be installed by manufacturer's representatives.
 - Manufacturer will monitor welding process to ensure appropriate temperature of seal. Wellhead Manufacturer representative will not be present for BOP test plug installation
 - Operator will test the 9-5/8" casing to 70% of casing burst before drilling out.

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

4. Cement Program

Surface Casing: 13-3/8", 54.5 New J-55, STC casing to be set at +/- 66

Lead: 260 sxs EconoCem-HLTRRC (mixed at 12.9 ppg, 1.87 ft3/sx, 10.13 gal/sx water)
Tail: 300 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)
Tail Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Intermediate Casing: 9-5/8", 40 New L-80, LTC casing to be set at +/- 8350'

First Stage

Lead: 1340 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 230 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Tail Compressives: 12-hr = 900 psi 24 hr = 1500 psi

A DV tool will be set @ 3810' (15' above the Lamar).

Second Stage

Lead: 410 sxs Halcem-C + 2% CaCl (mixed at 12.9 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 180 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)
Tail Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 26076'

Lead: 1200 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)

Tail: 3020 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water)
Tail Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M Double Ram BOP. MASP should not exceed 3214 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nippling up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 5000 psi. When nippling up on the 9-5/8", 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 650' 677	17-1/2"	FW / Native	8.4-8.8	35-40	NC
650' to 8350'	12-1/4"	Brine / Gel Sweeps	9.7-10.1	30-32	NC
8350' to 26076'	8-3/4" x 8-1/2"	FW / Cut Brine / Polymer	9.5 - 9.8	29-32	NC - 20

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 9.8ppg-10.2ppg 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 13-3/8" casing.

8. Logging, Coring and Testing Program

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

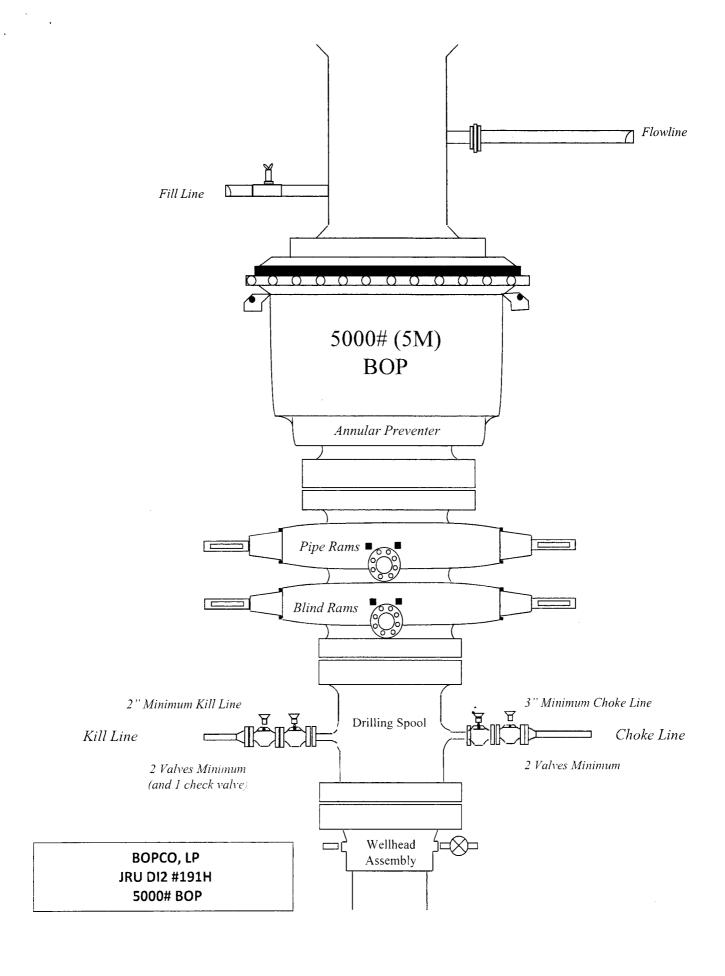
Open hole logging will not be done on this well.

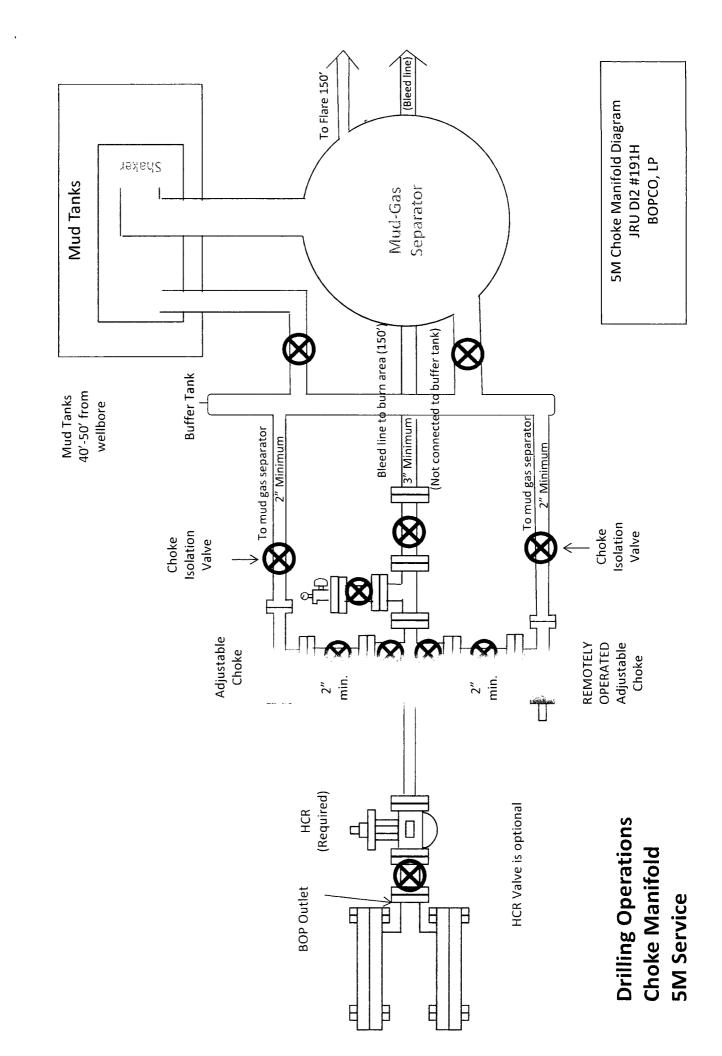
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 155 to 175 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 5656 psi.

10. Anticipated Starting Date and Duration of Operations

Road and location construction will begin after Santa Fe and BLM have approved the APD. Anticipated spud date will be as soon after Santa Fe and BLM approval and as soon as a rig will be available. Move in operations and drilling is expected to take 40 days. If production casing is run, an additional 30 days will be needed to complete well and construct surface facilities and/or lay flow lines in order to place well on production.







GATES E & S NORTH AMERICA, INC

DU-TEX

134 44TH STREET

CORPUS CHRISTI, TEXAS 78405

PHONE: 361-887-9807

FAX: 361-887-0812

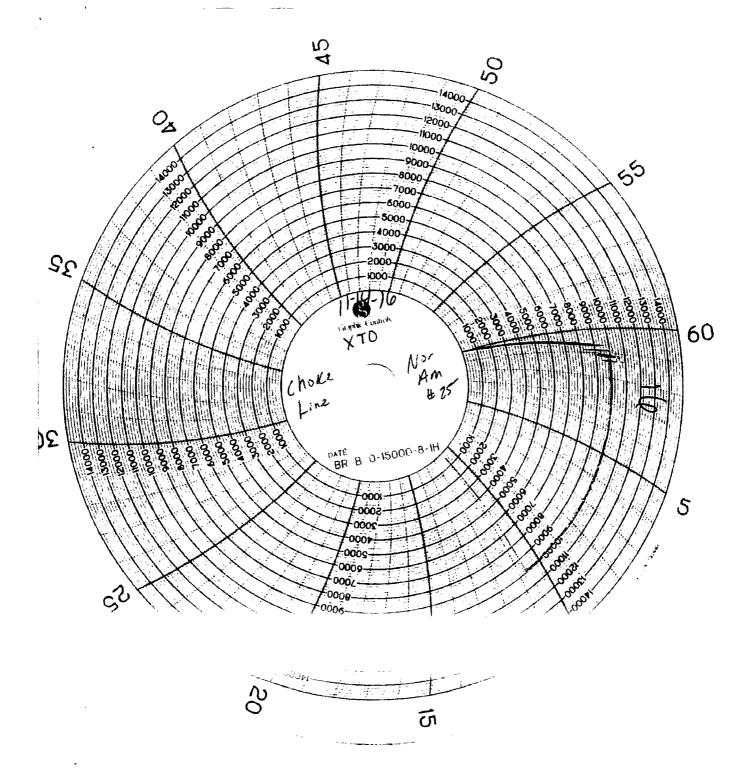
EMAIL: crpe&s@gates.com

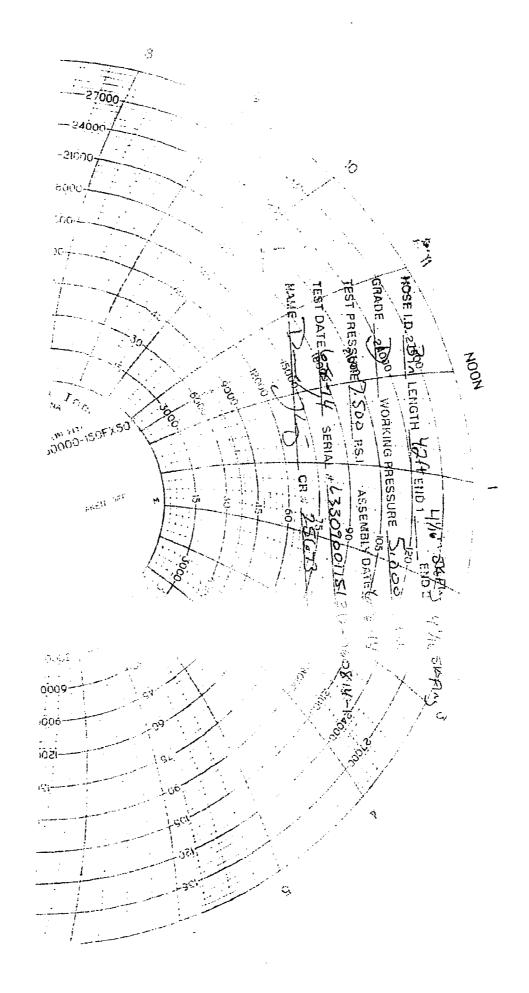
WEB: www.gates.com

GRADE D PRESSURE TEST CERTIFICATE

OTABL DITE	L330RE TEST CERT		
Chart mean	AUSTIN DISTRIBUTING	− T Tes cata	6/5/2014
Laterner Ref.	PENDING	Has a Serial No.	D-060S1-1-1
renace No.	201709	Created By:	NORMA
Product Description:		FD3.042.0R41/16.5KFLGE/E	LE
End Filting 1 :	4 1/16 m.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Sales Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Varking Pressure :	5,000 PSI	Test Pressure :	7,500 PS1
Gates Oilfield hydrostatic test p	Roughneck Agreement/Spe er API Spec 7K/Q1, Fifth Ec	edfication requirements dition, June 2010, Test ct number. Hose burst	sembly has been tested to the and passed the 15 minute pressure 9.6.7 and per Table 9 pressure 9.6.7.2 exceeds the er Table 9.
Quality: Loate . Signature :	QUALITY 6/8/29147	Technical Supervisor : Date : Signature :	PRODUCTION 6/8/2014

Form PTC - 01 Rev.0 2







XTO ENERGY, INC.

Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H

Wellbore #1

Plan: Design #1

QES Well Planning Report

21 November, 2017





Well Planning Report



EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1

Well James Ranch Unit DI 2 #191H RKB @ 3367.0usft (Noram #25) RKB @ 3367.0usft (Noram #25) Grid Minimum Curvature

Eddy County, NM

Design #1

Map System: Geo Datum:

US State Plane 1927 (Exact solution)

NAD 1927 (NADCON CONUS)

Map Zone:

Site

New Mexico East 3001

System Datum:

Mean Sea Level

Sec 25, T22S, R30E

Site Position:

Northing:

495,902.50 usft

Latitude:

32° 21' 44.538 N

From: **Position Uncertainty:** Map

Easting: Slot Radius: 653,480.50 usft 13-3/16 "

Longitude: Grid Convergence: 103° 50' 10.552 W

0.27°

James Ranch Unit DI 2 #191H

IGRF2015

Well Position

+N/-S +E/-W 30.2 usft 49.7 usft

0.0 usft

Northing: Easting:

495,932.69 usft

Latitude:

32° 21' 44.834 N

Position Uncertainty

0.0 usft

Wellhead Elevation:

11/20/2017

653,530.20 usft

Longitude:

103° 50' 9.971 W

Ground Level:

3,343.0 usft

Wellbore #1

47,948.89076307

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7.04

60.14

Design #1

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth:

0.0

0.0

0.0

266.85

Plan Sections

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11,636.5	90.37	240.00	11,097.2	-422.9	-732.5	0.00	0.00	0.00	0.00	
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EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1 Design #1 Berg J. Carlo Barto Francisco II. Tronta españo Mesta renega Prode Campana Sun españo anno anno

Hamir Shire									
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Base Salt		- · · · · · ·	, -			- • -			
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3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
Delaware/Lama		0.00	2.024.2	0.0	0.0	0.0	0.00	0.00	0.00
3,824.0	0.00	0.00	3,824.0	0.0	0.0	0.0	0.00	0.00	0.00
Bell Canyon	0.00	0.00	0.004.0	0.0	0.0	0.0	0.00	0.00	0.00
3,864.0	0.00	0.00	3,864.0	0.0	0.0 0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0		0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00



(Peropeta)



EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1

Design #1



Princi Succes									
Mestion			William I						i de la companya de La companya de la co
	inamo (s. Z	alonio	14. [/fig. 4:35]	ings		1 illefet	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	dants Section	ano.
(2) (2) (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	ugi.	AU.		(ČLiú)					rodonaldi (1835)
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0,00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
Cherry Canyon									
4,784.0 4,800.0	0.00 0.00	0.00 0.00	4,784.0 4,800.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00
									0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Manzanita 4,949.0	0.00	0.00	4,949.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0 5,500.0	0.00 0.00	0.00 0.00	5,400.0 5,500.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0 6,200.0	0.00 0.00	0.00 0.00	6,100.0 6,200.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
Brushy Canyon	0.00	0.00	0,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,364.0	0.00	0.00	6,364.0	0.0	0.0	0.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00 0.00	0.00	6,500.0 6,600.0	0.0	0.0 0.0	0.0	0.00	0.00 0.00	0.00
6,600.0		0.00		0.0		0.0	0.00		0.00
6,700.0 6,800.0	0.00 0.00	0.00 0.00	6,700.0 6,800.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00
7,300.0 7,400.0	0.00 0.00	0.00 0.00	7,300.0 7,400.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
Basal Brushy Car		0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00
7,409.0	0,00	0.00	7,409.0	0.0	0.0	0.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00
Base Brushy Can	yon Sands								
7,674.0	0.00	0.00	7,674.0	0.0	0.0	0.0	0.00	0.00	0.00
Bone Spring	0.00	0.00	7.000.0	0.0	2.0	0.0	0.00	0.00	0.00
7,699.0 7,700.0	0.00 0.00	0.00 0.00	7,699.0 7,700.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
Avalon Sand	0.00	0.00	7,700.0	0.0	0.0	5.0	0.00	0.00	0.00
7,799.0	0.00	0.00	7,799.0	0.0	0.0	0.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7.800.0	0.0	0.0	0.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00





ECM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1 Design #1 Botalikās, Albaka, tabu aga sepa Tivo Bara, ar s Lind Obragasa Sarb Botalana, Sarviva, ar ar ar detaars

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					在主题 决定的					
				Wall a			y Hari	(A) (E) (1)		(fare - 14)
		ichia Roje	A Tomath	(a)(34)	100			g (A)U meva Con	(133). January	
	s o chresional collinarios. To constant de constant	100		(00(1))				Hambi (S) Adam	/(4)001 (1)	raidheisia Cais
	Lower Avalon S	Shale								
1	8,289.0	0.00	0.00	8,289.0	0.0	0.0	0.0	0.00	0.00	0.00
1	8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	8,400.0	0.00	0.00	8,400,0	0.0	0.0	0.0	0.00	0.00	0.00
1	8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00
	8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	First Bone Spri			-,					¥	0.00
	8,759.0	0.00	0.00	8,759.0	0.0	0.0	0.0	0.00	0.00	0.00
	8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00
	8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	Second Bone S			3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,209.0	0.00	0.00	9,209.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00
				0.500.0						
	9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00
	Second Bone S 9,559.0	pring Sana 0.00	0.00	0.550.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,600.0	0.00	0.00 0.00	9,559.0 9,600.0	0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
	9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00
	9.800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00
	,			-,					•/	0,00
	Third Bone Spr	-					• •			
	9,849.0	0.00	0.00	9,849.0	0.0	0.0	0.0	0.00	0.00	0.00
	9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00
	10,000.0 10,100.0	0.00 0.00	0.00 0.00	10,000.0 10,100.0	0.0 0.0	0.0 0.0	0.0 0.0	0.00 0.00	0.00 0.00	0.00 0.00
	10,200.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00
	10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00
	KOP 8º/100'									
	10,381.8	0.00	0.00	10,381.8	0.0	0.0	0.0	0.00	0.00	0.00
	10,400.0 10,450.0	1.46 5.46	240.00 240.00	10,400.0 10,449.9	-0.1 -1.6	-0.2	0.2	8.00	8.00	0.00
	10,500.0	9.46	240.00	10,449.5	-1.6 -4.9	-2.8 -8.4	2.9 8.7	8.00 8.00	8.00 8.00	0.00 0.00
	10,550.0	13.46	240.00	10,548.5	-9.8	-17.0	17.5	8.00	8.00	0.00
	Third Bone Spr	_								
	10,560.9	14.32	240.00	10,559.0	-11.1	-19.3	19.9	8.00	8.00	0.00
	10,600.0	17.46	240.00	10,596.6	-16.5	-28.6	29.4	8.00	8.00	0.00
	10,650.0	21.46	240.00	10,643.8	-24.8	-43.0	44.3	8.00	8.00	0.00
	10,700.0	25.46	240.00	10,689.6	-34.8	-60.2	62.0	8.00	8.00	0.00
	10,750.0	29.46	240.00	10,734.0	-46.3	-80.2	82.6	8.00	8.00	0.00
	10,800.0	33.46	240.00	10,776.6	-59.3	-102.8	105.9	8.00	8.00	0.00
	10,850.0	37.46	240.00	10,817.4	-73.8	-127.9	131.7	8.00	8.00	0.00
	10,900.0	41.46	240.00	10,856.0	-89.7	-155.4	160.1	8.00	8.00	0.00
	10,950.0	45.46	240.00	10,892.2	-106.9	-185.2	190.8	8.00	8.00	0.00
	11,000.0	49.46	240.00	10,926.0	-125.3	-217.1	223.6	8.00	8.00	0.00
	11,050.0	53.46	240.00	10,957.2	-144.9	-250.9	258.5	8.00	8.00	0.00
	Wolfcamp									
	11,070.2	55.07	240.00	10,969,0	-153.1	-265,1	273.2	8.00	8.00	0.00
	11,100.0	57.46	240.00	10,985.5	-165.5	-286.6	295.3	8.00	8.00	0.00
	11,150.0	61.46	240.00	11,010.9	-187.0	-323.9	333.7	8.00	8.00	0.00



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EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1 Design #1

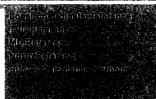
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DIT ITTE	Design #1		TOWNS CONTROL OF THE ANGLE AND ANGLE					******************************	
MARKET SECRETARY					Marks would be supported to the support				Party apply apply to the Least of Lag
Pleaser Survey		postgenes en	475 V 2 / 3 / 3 / 3 / 4 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5 / 5				##\$@##***##############################		
tara se (Wastern (1)				(P)(G)(Tree		11111
	क्रियान्सिटने 💖	Moritine	Promise Service				100		
(4) (4) (4) (4) (4) (4) (4) (4)	(31.0%)		5(0)(i)),	(an hiji 💯 😘	(m 10r)	daning di	$t(illon(s), \cdot, \cdot)(t)$	Kaliberry, Costl	(authoris)
	05.40	040.00	Architek (n. 1866)	200.0	Davidson Kriston Libera	272.0	0.00	0.00	0.00
11,200.0	65.46 69.46	240.00	11,033.3	-209.3	-362.6	373.6	8.00	8.00	0.00
11,250.0 11,200.0	69.46 73.46	240.00	11,052.4	-232.4 256.1	-402.6	414,8 457.0	8.00	8.00	0.00
11,300.0	73.46	240.00	11,068.3	-256.1	-443.6	457.0	8.00	8.00	0.00
Wolfcamp Y Sa		212.55		a== -	-=				* *-
11,341.5	76.77	240.00	11,079.0	-276.2	-478.3	492.8	8.00	8.00	0.00
11,350.0	77.46	240.00	11,080.9	-280.3	-485.5	500.2	8.00	8.00	0.00
11,400.0	81.46	240.00	11,090.0	-304.9	-528.1	544.1	8.00	8.00	0.00
11,450.0	85.46	240.00	11,095.7	-329.7	-571.1	588.4	8.00	8.00	0.00
11,500.0	89.46	240.00	11,098.0	-354.7	-614.4	632.9	8.00	8.00	0.00
	INC / 240.00° AZ								
11,511.5	90.37	240.00	11,098.0	-360.4	-624.3	643.2	8.00	8.00	0.00
11,600.0	90.37	240.00	11,097.4	-404.7	-701.0	722.2	0.00	0.00	0.00
·	20.07		,001.7		. 0 1.0		5.00	5.50	0.00
Turn 2º/100'									
11,636.5	90.37	240.00	11,097.2	-422.9	-732.5	754.7	0.00	0.00	0.00
11,700.0	90.38	241.27	11,096.8	-454.1	-787.9	811.7	2.00	0.00	2.00
11,800.0	90.38	243.27	11,096.1	-500.6	-876.4	902.6	2.00	0.00	2.00
11,900.0	90.38	245.27	11,095.4	- 544.0	-966.5	995.0	2.00	0.00	2.00
12,000.0	90.38	247.27	11,094.8	-584.3	-1,058.0	1,088.6	2.00	0.00	2.00
12,100.0	90.38	249.27	11,094.1	-621.3	-1,150.9	1,183.4	2.00	0.00	2.00
12,200.0	90.39	251.27	11,093.4	- 655.0	-1,245.0	1,279.2	2.00	0.00	2.00
12,300.0	90.39	253.27	11,092.8	-685.5	-1,340.3	1,376.0	2.00	0.00	2.00
12,400.0	90.39	255.27	11,092.1	-712.6	-1,436.5	1,473.6	2.00	0.00	2.00
12,500.0	90.39	257.27	11,091.4	-736.3	-1,533.7	1,571.9	2.00	0.00	2.00
12,600.0 12,700.0	90.38	259.27 261.27	11,090.7	-756.6 -773.5	-1,631.6 -1,730.1	1,670.7 1,770.1	2.00	0.00	2.00
12,700.0	90.38	261.27 263.27	11,090.1	-773.5	-1,730.1 -1,829.2	1,770.1	2.00	0.00	2.00
12,800.0 12,900.0	90.38 90.38	263.27 265.27	11,089.4 11,088.7	-787.0 -797.0	-1,829.2 -1,928.7	1,869.7 1,969.6	2.00 2.00	0.00 0.00	2.00 2.00
12,900.0	90.38	265.27 267.27	11,088.7	-797.0 -803.5	-1,928.7 -2,028.5	2,069.6	2.00	0.00	2.00 2.00
13,100.0	90.37	269.27	11,087.4	-806.5	-2,128.4	2,169.6	2.00	0.00	2.00
EOT @ 269.89	° AZI								
13,130.8	90.37	269.89	11,087.2	-806.7	-2,159.2	2,200.4	2.00	0.00	2.00
13,200.0	90.37	269.89	11,086.8	-806.9	-2,228.4	2,269.4	0.00	0.00	0.00
13,300.0	90.37	269.89	11,086.1	-807.0	-2,328.4	2,369.3	0.00	0.00	0.00
13,400.0	90.37	269.89	11,085.5	- 807.2	-2,428.4	2,469.2	0.00	0.00	0.00
13,500.0	90.37	269.89	11,084.8	-807.4	-2,528.4	2,569.0	0.00	0.00	0.00
13,600.0	90.37	269.89	11,084.2	-807.4	-2,528.4	2,668.9	0.00	0.00	0.00
13,700.0	90.37	269.89	11,083.5	-807.8	-2,728.4	2,768.7	0.00	0.00	0.00
13,800.0	90.37	269.89	11,082.9	-808.0	-2,828.4	2,868.6	0.00	0.00	0.00
13,900.0	90.37	269.89	11,082.2	-808.2	-2,928.4	2,968.4	0.00	0.00	0.00
14,000.0	90.37	269.89	11,081.6	-808.4	-3,028.4	3,068.3	0.00	0.00	0.00
14,100.0 14,200.0	90.37	269.89	11,080.9	-808.6 808.8	-3,128.4	3,168.2	0.00	0.00	0.00
14,200.0 14,300.0	90.37 90.37	269.89 269.89	11,080.3 11,079.6	-808.8 -809.0	-3,228.4 -3,328.4	3,268.0	0.00	0.00	0.00
		269.89 269.89	11,079.6 11,079.0	-809.0 -809.2	-3,328.4 -3,428.4	3,367.9 3,467.7	0.00	0.00	0.00
14,400.0	90.37	∠09.69	11,079.0	-809.2		3,467.7	0.00	0.00	0.00
14,500.0	90.37	269.89	11,078.3	-809.4	-3,528.4	3,567.6	0.00	0.00	0.00
14,600.0	90.37	269.89	11,077.6	-809.6	-3,628.4	3,667.4	0.00	0.00	0.00
14,700.0	90.37	269.89	11,077.0	-809.8	-3,728.4	3,767.3	0.00	0.00	0.00
14,800.0	90.37	269.89	11,076.3	-810.0	-3,828.4	3,867.2	0.00	0.00	0.00
14,900.0	90.37	269.89	11,075.7	-810.2	-3,928.4	3,967.0	0.00	0.00	0.00
15.000.0	90.37	269.89	11,075.0	-810.4	-4,028.4	4,066.9	0.00	0.00	0.00
15,000.0 15,100.0	90.37 90.37	269.89		-810.4 -810.6	-4,028.4 -4,128.4	4,066.9 4,166.7	0.00	0.00	0.00
15,100.0 15,200.0	90.37 90.37	269.89	11,074.4 11,073.7	-810.6 -810.8	-4,128.4 -4,228.4	4,166.7 4,266.6	0.00	0.00	0.00
15,200.0 15,300.0	90.37	269.89 269.89	11,073.7 11,073.1	-810.8 -811.0	-4,228.4 -4,328.4	4,266.6 4,366.4	0.00	0.00	0.00
15,300.0	90.37	269.89	11,073.1	-811.0 -811.2	-4,328.4 -4,428.4	4,366.4	0.00	0.00	0.00
10,400.0			11,012.4		-7,720,7	7,700,0	0.00	0.00	0.00





EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1 Design #1

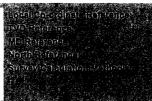


Design #1 Design #1 Design #0 Design #1					Secretary of the control of the cont						
E 100	ori d	ilitela //y/		1146.1			544 1		141		
	(6)	A 2 X X X X X X X X X X X X X X X X X X					esia (gm)			A 4 2 7 3 7 2 20 10 10 10 10 10 10 10 10 10 10 10 10 10	
	5,500.0	90.37	269.89	11,071.8	-811.4	-4,528,4	4,566.2	0.00	0.00	0.00	
	5,600.0	90.37	269.89	11,071.1	-811.6	-4,528.4 -4,628.4	4,666.0	0.00	0.00	0.00	
. 1	5,700.0	90.37	269.89	11,070.5	-811.8	-4,728.4	4,765.9	0.00	00,0	0.00	
	5,800.0	90.37	269.89	11,069.8	-811.9	-4,828.4	4,865.7	0.00	0.00	0.00	
	5,900.0	90.37	269.89	11,069.2	-812.1	-4,928.4	4,965.6	0.00	0.00	0.00	
	6,000.0	90.37	269.89	11,068.5	-812.3	-5,028.4	5,065.4	0.00	0.00	0.00	
	6,100.0 6,200.0	90.37 90.37	269.89 269.89	11,067.9 11,067.2	-812.5 -812.7	-5,128.4 -5,228.4	5,165.3 5,265.2	0.00 0.00	0.00 0.00	0.00 0.00	
	6,300.0	90.37	269.89	11,066.6	-812.7 -812.9	-5,328.4	5,365.0	0.00	0.00	0.00	
	6,400.0	90.37	269.89	11,065.9	-813.1	-5,428.4	5,464.9	0.00	0.00	0.00	
1	6,500.0	90.37	269.89	11,065.3	-813.3	-5,528.4	5,564.7	0.00	0.00	0.00	
	6,600.0	90.37	269.89	11,064.6	-813.5	-5,628.4	5,664.6	0.00	0.00	0.00	
	6,700.0	90.37	269.89	11,064.0	-813.7	-5,728.4	5,764.4	0.00	0.00	0.00	
	6,800.0	90.37	269.89	11,063.3	-813.9	-5,828.4	5,864.3	0.00	0.00	0.00	
1	6,900.0	90.37	269.89	11,062.7	-814.1	-5,928.3	5,964.2	0.00	0.00	0.00	
	7,000.0	90.37	269.89	11,062.0	-814.3	-6,028.3	6,064.0	0.00	0.00	0.00	
	7,100.0	90.37	269.89	11,061.4	-814.5	-6,128.3	6,163.9	0.00	0.00	0.00	
	7,200.0	90.37	269.89	11,060.7	-814.7	-6,228.3	6,263.7	0.00	0.00	0.00	
	7,300.0 7,400.0	90.37 90.37	269.89 269.89	11,060.1 11,059.4	-814.9 -815.1	-6,328.3 -6,428.3	6,363.6 6,463.4	0.00 0.00	0.00 0.00	0.00 0.00	
	•										
	7,500.0 7,600.0	90.37 90.37	269.89 269.89	11,058.8 11,058.1	-815.3 -815.5	-6,528.3 -6,628.3	6,563.3 6,663.2	0.00 0.00	0.00 0.00	0.00 0.00	
	7,700.0	90.37	269.89	11,057.5	-815.7	-6,728.3	6,763.0	0.00	0.00	0.00	
	7,800.0	90.37	269.89	11,056.8	-815.9	-6,828.3	6,862.9	0.00	0.00	0.00	
	7,900.0	90.37	269.89	11,056.2	-816.1	-6,928.3	6,962.7	0.00	0.00	0.00	
1	8,000.0	90.37	269.89	11,055.5	-816.3	-7,028.3	7,062.6	0.00	0.00	0.00	
	8,100.0	90.37	269.89	11,054.9	-816.5	-7,128.3	7,162.4	0.00	0.00	0.00	
	8,200.0	90.37	269.89	11,054.2	-816.7	-7,228.3	7,262.3	0.00	0.00	0.00	
	8,300.0	90.37	269.89	11,053.6	-816.8	-7,328.3	7,362.2	0.00	0.00	0.00	
	8,400.0	90.37	269.89	11,052.9	-817.0	-7,428.3	7,462.0	0.00	0.00	0.00	
	8,500.0	90.37	269.89	11,052.3	-817.2	-7,528.3	7,561.9	0.00	0.00	0.00	
	8,600.0 8,700.0	90.37	269.89	11,051.6	-817.4 817.6	-7,628.3 -7,728.3	7,661.7	0.00	0.00	0.00	
	8,800.0	90.37 90.37	269.89 269.89	11,051.0 11,050.3	-817.6 -817.8	-7,728.3 -7,828.3	7,761.6 7,861.4	0.00 0.00	0.00 0.00	0.00 0.00	
	8,900.0	90.37	269.89	11,049.7	-818.0	-7,928.3	7,961.3	0.00	0.00	0.00	
	9,000.0	90.37	269.89	11,049.0	-818.2	-8,028.3	8,061.2	0.00	0.00	0.00	
	9,100.0	90.37	269.89	11.048.4	-818.4	-8,128.3	8,161.0	0.00	0.00	0.00	
	9,200.0	90.37	269.89	11,047.7	- 818.6	-8,228.3	8,260.9	0.00	0.00	0.00	
	9,300.0	90.37	269.89	11,047.1	-818.8	-8,328.3	8,360.7	0.00	0.00	0.00	
1	9,400.0	90.37	269.89	11,046.4	-819.0	-8,428.3	8,460.6	0.00	0.00	0.00	
	9,500.0	90.37	269.89	11,045.7	-819.2	-8,528.3	8,560.4	0.00	0.00	0.00	
	9,600.0	90.37	269.89	11,045.1	-819.4	-8,628.3	8,660.3	0.00	0.00	0.00	
	9,700.0 9,800.0	90.37 90.37	269.89 269.89	11,044.4 11.043.8	-819.6 -819.8	-8,728.3 -8,828.3	8,760.2 8,860.0	0.00	0.00	0.00	
	9,900.0	90.37	269.89	11,043.8	-820.0	-8,928.3	8,959.9	0.00 0.00	0.00 0.00	0.00 0.00	
	0,000.0 0,100.0	90.37 90.37	269.89 269.89	11,042.5 11,041.8	-820.2 -820.4	-9,028.3 -9,128.3	9,059.7 9.159.6	0.00 0.00	0.00 0.00	0.00	
	0,200.0	90.37	269.89	11,041.8	-820.4 -820.6	-9,128.3 -9,228.3	9,259.4	0.00	0.00	0.00 0.00	
	0,300.0	90.37	269.89	11,040.5	-820.8	-9,328.3	9,359.3	0.00	0.00	0.00	
	0,400.0	90.37	269.89	11,039.9	-821.0	-9,428.3	9,459.2	0.00	0.00	0.00	
2	0,500.0	90.37	269,89	11,039,2	-821.2	-9,528,3	9,559.0	0.00	0.00	0.00	
	0,600.0	90.37	269.89	11,038.6	-821.4	-9,628.3	9,658.9	0.00	0.00	0.00	
2	0,700.0	90.37	269.89	11,037.9	-821.6	-9,728.3	9,758.7	0.00	0.00	0.00	
2	0,800.0	90.37	269.89	11,037.3	- 821.8	-9,828.3	9,858.6	0.00	0.00	0.00	





EDM 5000.1 Single User Db XTO ENERGY, INC. Eddy County, NM Sec 25, T22S, R30E James Ranch Unit DI 2 #191H Wellbore #1



	esign #1		to a constitutive of the first terms to the first of the			da de la companya de	Official framework (staggisture (broads from the set \$100 Med COC Tray contactions)	Name and the Control of the Control	a yayanda di Yakiri markini nga manaka makar 1988an
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1904-115 40	-25-17 70 70 11 2 2 2 10	Augustin .	in the	nge 2	Andrew	sudibin.	Fall Comment		
arrii Arrii	(f)		(1666) Heriotzak						entroni, i
20,900.0	90.37	269.89	11,036.6	-821.9	-9,928.3	9,958.4	0.00	0.00	0.00
21,000.0 21,100.0	90.37 90.37	269,89 269.89	11,036.0	-822.1 -822.3	-10,028.3	10,058.3 10,158.2	0.00	0.00 0.00	0.00
21,100.0	90.37	269.89	11,035.3 11,034.7	-622.3 -822.5	-10,128.3 -10,228.2	10,156.2	0.00 0.00	0.00	0.00 0.00
21,300.0	90.37	269.89	11,034.0	-822.7	-10,328.2	10,357.9	0.00	0.00	0.00
21,400.0	90.37	269.89	11,033.4	-822.9	-10,428.2	10,457.7	0.00	0.00	0.00
21,500.0	90.37	269.89	11,032.7	-823.1	-10,528.2	10,557.6	0.00	0.00	0.00
21,600.0	90.37	269.89	11,032.7	-823.3	-10,628.2	10,657.4	0.00	0.00	0.00
21,700.0	90.37	269.89	11,031.4	-823.5	-10,728.2	10,757.3	0.00	0.00	0.00
21,800.0	90.37	269.89	11,030.8	-823.7	-10,828.2	10,857.2	0.00	0.00	0.00
21,900.0	90.37	269.89	11,030.1	-823.9	-10,928.2	10,957.0	0.00	0.00	0.00
22,000.0	90.37	269.89	11,029.5	-824.1	-11,028.2	11,056.9	0.00	0.00	0,00
22,100.0	90.37	269.89	11,028.8	-824.3	-11,128.2	11,156.7	0.00	0.00	0.00
22,200.0	90.37	269.89	11,028.2	-824.5	-11,228.2	11,256.6	0.00	0.00	0.00
22,300.0	90.37	269.89	11,027.5	-824.7	-11,328.2	11,356.4	0.00	0.00	0.00
22,400.0	90.37	269.89	11,026.9	-824.9	-11,428.2	11,456.3	0.00	0.00	0.00
22,500.0	90.37	269.89	11,026,2	-825.1	-11,528.2	11,556.2	0.00	0.00	0.00
22,600.0	90.37	269.89	11,025.6	-825.3	-11,628.2	11,656.0	0.00	0.00	0.00
22,700.0	90.37	269.89	11,024.9	- 825.5	-11,728.2	11,755.9	0.00	0.00	0.00
22,800.0	90.37	269.89	11,024.3	-825.7	-11,828.2	11,855.7	0.00	0.00	0.00
22,900.0	90.37	269.89	11,023.6	-825.9	-11,928.2	11,955.6	0.00	0.00	0.00
23,000.0	90.37	269.89	11,023.0	-826.1	-12,028.2	12,055.4	0.00	0.00	0.00
23,100.0	90.37	269.89	11,022.3	-826.3	-12,128.2	12,155.3	0.00	0.00	0.00
23,200.0	90.37	269.89	11,021.7	-826.5	-12,228.2	12,255.1	0.00	0.00	0.00
23,300.0 23,400.0	90.37 90.37	269.89 269.89	11,021.0 11,020.4	-826.7 -826.8	-12,328.2	12,355.0 12,454.9	0.00 0.00	0.00 0.00	0.00
					-12,428.2				0.00
23,500.0	90.37	269.89	11,019.7	-827.0	-12,528.2	12,554.7	0.00	0.00	0.00
23,600.0	90.37	269.89	11,019.1	-827.2	-12,628.2	12,654.6	0.00	0.00	0.00
23,700.0 23,800.0	90.37 90.37	269.89 269.89	11,018.4 11,017.8	-827.4 -827.6	-12,728.2 -12,828.2	12,754.4 12,854.3	0.00 0.00	0.00 0.00	0.00 0.00
23,900.0	90.37	269.89	11,017.1	-827.8	-12,928.2	12,954.1	0.00	0.00	0.00
	90.37	269.89		-828.0		13.054.0	0.00	0.00	
24,000.0 24,100.0	90.37	269.89	11,016,5 11,015,8	-828.2	-13,028.2 -13,128.2	13,153.9	0.00	0.00	0.00 0.00
24,200.0	90.37	269.89	11,015.2	-828.4	-13,728.2	13,253.7	0.00	0.00	0.00
24,300.0	90.37	269.89	11,014.5	-828.6	-13,328.2	13,353.6	0.00	0.00	0.00
24,400.0	90.37	269.89	11,013.9	-828.8	-13,428.2	13,453.4	0.00	0.00	0.00
24.500.0	90.37	269.89	11.013.2	-829.0	-13,528.2	13,553.3	0.00	0.00	0.00
24,600.0	90.37	269.89	11,012.5	-829.2	-13,628.2	13,653.1	0.00	0.00	0.00
24,700.0	90.37	269.89	11,011.9	-829.4	-13,728.2	13,753.0	0.00	0.00	0.00
24,800.0	90.37	269,89	11,011.2	-829.6	-13,828.2	13,852.9	0.00	0.00	0.00
24,900.0	90,37	269.89	11,010.6	-829.8	-13,928.2	13,952.7	0.00	0.00	0.00
25,000.0	90.37	269.89	11,009.9	-830.0	-14,028.2	14,052.6	0.00	0.00	0.00
25,100.0	90.37	269.89	11,009.3	- 830.2	-14,128.2	14,152.4	0.00	0.00	0.00
25,200.0	90.37	269.89	11,008.6	-830.4	-14,228.2	14,252.3	0.00	0.00	0.00
25,300.0	90.37	269.89	11,008.0	-830.6	-14,328.2	14,352.1	0.00	0.00	0.00
25,400.0	90.37	269.89	11,007,3	-830.8	-14,428.2	14,452.0	0.00	0.00	0.00
25,500.0	90.37	269.89	11,006.7	-831.0	-14,528.1	14,551.9	0.00	0.00	0.00
25,600.0	90.37	269.89	11,006.0	-831.2	-14,628.1	14,651.7	0.00	0.00	0.00
25,700.0	90.37	269.89	11,005.4	-831.4	-14,728.1	14,751.6	0.00	0.00	0.00
25,800.0	90.37	269.89	11,004.7	-831.6	-14,828.1	14,851.4	0.00	0.00	0.00
25,900.0	90.37	269.89	11,004.1	-831.7	-14,928.1	14,951.3	0.00	0.00	0.00
26,000.0	90.37	269.89	11,003.4	-831.9	-15,028.1	15,051.1	0.00	0.00	0.00
	1D / 11002.9' T	VD.							



Well Planning Report



EDM 5000.1 Single User Db
Chipter Strong Str

8,289.0 8,759.0

9,209.0

9,559.0

9,849.0

10,560.9

11,070.2 11,341.5 8,759.0 First Bone Spring Sand

10,559.0 Third Bone Spring Sand

11,079.0 Wolfcamp Y Sand

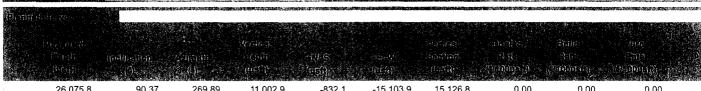
10,969.0 Wolfcamp

9,559.0 Second Bone Spring Sand

9,849.0 Third Bone Spring Limestone

9,209.0 Second Bone Spring Limestone

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26,075.8	90.37	269.89	11,002.9	-832.1	-15,103.9	15,126.8	0.00	0.00	0.00
jeka mere 🚿 🗀									
	an Andre ((i) (i) (i) (ii) (ii)	(3.00 (0 .33)	1000 mg.			Lagionson, San	J. (visighmelt).
TP - James Ranch Unit - plan misses target ce - Point	0.00 enter by 1.8usf		002.0 -831.9 t MD (11003.8 TVE			0.80 638,	556.30 32	2° 21′ 37.257 N	103° 53′ 4.589 \
BHL - James Ranch Ur - plan misses target ce - Point	0.00 enter by 0.9usf		002.0 -832. t MD (11002.9 TVE			0.60 638,4	426.30 32	2° 21' 37.260 N	103° 53' 6.105 \
TP - James Ranch Unil - plan misses target ce - Point	0.00 enter by 1.0usfi	,	085.4 -806.4 ft MD (11086.4 TVE			5.90 651,	246.90 3:	2° 21' 36.955 N	103° 50′ 36.634 V

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	and William	and the second
369.0	369.0	Rustler
669.0	669.0	Salado
3,617.0	3,617.0	Base Salt
3,824.0	3,824.0	Delaware/Lamar
3,864.0	3,864.0	Bell Canyon
4,784.0	4,784.0	Cherry Canyon
4,949.0	4,949.0	Base Manzanita
6,364.0	6,364.0	Brushy Canyon
7,409.0	7,409.0	Basal Brushy Canyon
7,674.0	7,674.0	Base Brushy Canyon Sands
7,699.0	7,699.0	Bone Spring
7,799.0	7,799.0	Avalon Sand
8,289.0	8,289.0	Lower Avalon Shale



Well Planning Report



EDM 5000.1 Single User Db
XTO ENERGY, INC.
Eddy County, NM
Sec 25, T22S, R30E

James Ranch Unit DJ 2 #191H
Wellbore #1
Design #1



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	AND THE STREET OF THE PARTY.		CONTROL PROPERTY.	
Marking Comments	METALTONIANAN MANTON ON LONGUISMONT	CAA MARKANIA		
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et income	in construction in		Market Artis	
			(11915)	
10,381.8	10,381.8	0.0	0.0	KOP 8º/100'
11,511.5	11,098.0	-360.4	-624.3	EOC @ 90.37° INC / 240.00° AZI / 11098.0' TVD
11,636,5	11,097.2	-422.9	-732.5	Turn 2º/100'
13,130.8	•	-806.7	-2,159,2	EOT @ 269.89° AZI
26,075.8	11,002.9	-832.1	-15,103.9	TD @ 26075.8' MD / 11002.9' TVD
		-002.1	-10,100.3	

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: | BOPCO LP

LEASE NO.: NMNM70965X

WELL NAME & NO.: JAMES RANCH UNIT DI2 191H

SURFACE HOLE FOOTAGE: 2450' FSL & 1960' FWL

BOTTOM HOLE FOOTAGE | 1650' FSL & 2440' FEL;Sec. 28 LOCATION: | Section 25, T. 22 S., R 30 E., NMPM

COUNTY: Eddy County, New Mexico

COA

All previous COAs still apply expect the following:

H2S	e Yes	r No	
Potash	^ None	C Secretary	€ R-111-P
Cave/Karst Potential	r Low	○ Medium	€ High
Variance	↑ None	Flex Hose	C Other
Wellhead	^c Conventional	• Multibowl	r Both
Other	☐ 4 String Area	Capitan Reef	□ WIPP

A. Hydrogen Sulfide

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware** formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The 13-3/8 inch surface casing shall be set at approximately 677 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **24 hours in the Potash Area** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement).
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

d. If cement falls back, remedial cementing will be done prior to drilling out that string.

Operator shall fill $\frac{1}{2}$ (50%) of casing with fluid while running intermediate casing to maintain collapse safety factor. Casing pressure test shall be tested per Onshore Order 2.

2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is: Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job. Additional cement maybe required. Excess calculates to -18%.
- b. Second stage above DV tool:Cement to surface. If cement does not circulate, contact the appropriate BLM office.
- ❖ In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - c. Cement to surface. If cement does not circulate, contact the appropriate BLM office. Additional cement maybe required. Excess calculates to 21%.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be 5000 (5M) psi.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)
 - Chaves and Roosevelt Counties
 Call the Roswell Field Office, 2909 West Second St., Roswell NM 88201.
 During office hours call (575) 627-0272.
 After office hours call (575)
 - Eddy County
 Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a

digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before

cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).

- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
- c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be reported to the appropriate BLM office.
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- f. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior to the test at full stack pressure.
- g. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

Waste Minimization Plan (WMP)

In the interest of resource development, submission of additional well gas capture development plan information is deferred but may be required by the BLM Authorized Officer at a later date.

SPECIAL REQUIREMENTS

A. WIPP Requirements

The proposed well is located within 330' of the WIPP Land Withdrawal Area boundary. As a result, Yates Petroleum Corporation is required to submit daily drilling reports, logs and deviation survey information to the Bureau of Land Management and the Department of Energy per requirements of the Joint Powers Agreement until a total vertical depth of 7,000 feet is reached. These reports will have at a minimum the rate of penetration and a clearly marked section showing the deviation for each 500 foot interval. Operator may be required to do more frequent deviation surveys based on the daily information submitted and may be required to take other corrective measures. Information from this well will be included in the Quarterly Drilling Report. Information will also be provided to the New Mexico Oil Conservation Division after drilling activities have been completed. Upon completion of the well, the operator shall submit a complete directional survey. Any future entry into the well for purposes of completing additional drilling will require supplemental information.

Yates Petroleum Corporation can email the required information to Mr. Melvin Balderrama at Melvin.Balderama@wipp.ws or Mr. J. Neatherlin at Jimmy.Neatherlin@wipp.ws fax to his attention at 575-234-6062.

ZS 032118

R-111-P Section: 3 strings circ, a casing seal test of 600psi(hydrl) for the surface and 1000 for intermediate, <100psi drop in 30min. High Cave Karst: two casing strings, both to circulate cement to surface. In a Waste Isolation Project section.

13 3/8	13 3/8 surface csg in a 17 1/2		inch hole.	D	SURFACE			
Segment	#/ft	Gr	ade	Coupling	Joint	Collapse	Burst	Length
"A"	54.50	J	55	ST&C	13.93	3.65	0.62	677
"B"								0
w/8.4#/g	mud, 30min Sfo	Csg Test psig:	1,500	Tail Cmt	does not	circ to sfc.	Totals:	677
Comparison of	f Proposed t	o Minimum I	Required Cer	ment Volumes	_			
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
17 1/2	0.6946	560	891	524	70	8.80	2544	3M
Burst Frac Gradient(s) for Segment(s) A, B = 4.03, b All > 0.70,								
OK.								

9 5/8 casing inside the		13 3/8	A Buc	oyant	Design Factors		ITERMEDIA	
Segment	#/ft	Gr	ade	Coupling	Joint	Collapse	Burst	Length
"A"	40.00	J	55	LT&C	1.82	0.59	0.7	8,350
"B"								0
w/8.4#/g	mud, 30min Sfc	Csg Test psig:	-879				Totals:	: 8,350
The	cement volui	ne(s) are in	tended to ach	nieve a top of	0	ft from su	677	
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
12 1/4	0.3132	look ⅓	0	2667		10.10	3208	5M
Settin	g Depths for	D V Tool(s):	3810				sum of sx	Σ CuFt
excess cm	it by stage %:	96	-18				2160	3835
			EOO/ of the c	acina will be a		T COLLABCE		

Class 'H' tail cmt yld > 1.20

50% of the casing will be evacuated. ALT. COLLAPSE

SF: 2*.51=1.18

Burst Frac Gradient(s) for Segment(s): A, B, C, D = 0.47, b, c, d < 0.70 a Problem!!

Tail cmt proposed for the csg below could overlap the previous csg shoe.

5 1/2	2 casing inside the 95/8		5/8	·			Design Fa	PRODUCTION	
Segment	#/ft	Grad	łe	Coupli	ing	Body	Collapse	Burst	Length
"A"	17.00	p 1	10	BUT	Т	2.92	1.42	1.88	10,382
"B"	17.00	p 1	10	BUT	T	9.46	1.25	1.88	15,694
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,284								Totals	: 26,076
, В	Segmer	nt Design	Factors	would	be:	51.71	1.34	if it were	a vertical we
Proposed of	mt sx could f	ill 0 ft of	MTD	Max V⁻	TD	Csg VD	Curve KOP	Dogleg°	Severityo
a 71	6 ft Pilot Hole	е	26076	1109	8	11003	10382	90	8
Tho	cament volum	e(a) are inter	ided to ac	hiere ato	n of	n	ft from ei	irface or s	8350
Hole	Annular						Drilling	Calc	Req'd
Size	Volume						Mud Wt	MASP	BOPE
8 3/4	0.2526					21	9.80		
Settin	g Depths for D	V Tool(s):						-	

% excess cmt by stage:

Class 'H' tail cmt yld > 1.20

0 Segment "A" "B"	#/ft	Gr	5 1/2 ade	Coupling	- Joint	<u>Design l</u> Collapse	-actors Burst	Length 0 0
w/8.4#/ _{	g mud, 30min Sfo	: Csg Test psig:					Totals:	0
	Cmt vol calc b	elow includ	es this csg, T	OC intended	0	ft from su	rface or a	26076
Hole	Annular	1 Stage	1 Stage	Min	1 Stage	Drilling	Calc	Req'd
Size	Volume	Cmt Sx	CuFt Cmt	Cu Ft	% Excess	Mud Wt	MASP	BOPE
6 1/8			0	0				
			Capitan Reef	est top XXXX.				