For 3160-5 (June 2015)

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT MAR II & 1988

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

5. Lease Serial No. NMNM120895

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SUNDRY N	OTICES AND REP	ORTS ON WELI	S FED	AND
Do not use this	form for proposals t	o drill or to re-en	neren Al	TISIA
bandoned well.	OTICES AND REPO form for proposals to Use form 3160-3 (A	P P MISURAL BY B	posais. ""	~** <i>\Z\Z\</i> }** -
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abandoned well. Use form 3160-3 (AP	6. If Indian, Allottee or Tribe Name			
SUBMIT IN TRIPLICATE - Other ins	7. If Unit or CA/Agreement, Name and/or No.			
Type of Well ☐ Gas Well ☐ Other	Y	8. Well Name and No. CHAIN-BLUE LIGHTNING 26 FED 127H		
	KELLY KARDOS os@xtoenergy.com	9. API Well No. 30-015-46645-00-X1		
a. Address 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707	3b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Pool or Exploratory Area PURPLE SAGE-WOLFCAMP (GAS)		
Location of Well (Footage, Sec., T., R., M., or Survey Description	n)	11. County or Parish, State		
Sec 23 T25S R29E SESE 295FSL 523FEL 32.108967 N Lat, 103.948265 W Lon		EDDY COUNTY, NM		
12 CHECK THE ADD ODD ATE DOWNER	TO DIDICATE MATERIAL OF MOTION	DEDODE OF CHILD DATE		

1. Type of Well					8. Well Name and No. CHAIN-BLUE LIGHTNING 26 FED 127H		
Oil Well Gas Well Oth		CHAIN-BLUE LIG	HINING 26 FED 127H				
Name of Operator Contact: KELLY KARDOS XTO ENERGY INCORPORATED E-Mail: kelly_kardos@xtoenergy.com					9. API Well No. 30-015-46645-00-X1		
3a. Address 6401 HOLIDAY HILL ROAD E MIDLAND, TX 79707	. (include area code) 0-4374		10. Field and Pool or Exploratory Area PURPLE SAGE-WOLFCAMP (GAS)				
4. Location of Well (Footage, Sec., T	., R., M., or Survey Description,				11. County or Parish,	State	
Sec 23 T25S R29E SESE 29 32 108967 N Lat, 103.948265					EDDY COUNTY	′, NM	
12. CHECK THE AF	PPROPRIATE BOX(ÈS)	TO INDICA	ΓΕ NATURE OI	F NOTICE,	REPORT, OR OTH	IER DATA	
TYPE OF SUBMISSION			TYPE OF	ACTION			
Notice of Intent	☐ Acidize	□ Deep	pen	□ Product	ion (Start/Resume)	☐ Water Shut-Off	
_	☐ Alter Casing	☐ Hyd	raulic Fracturing	Reclama	ation	Well Integrity	
☐ Subsequent Report	Casing Repair	□ New	Construction	Recomp	lete	Other	
☐ Final Abandonment Notice	Change Plans	e Plans 🗖 Plug ar		Tempor	arily Abandon	Change to Original A PD	
	Convert to Injection	Plug	Back	☐ Water E	isposal	10	
All COAS	rmission to change the cannot a cannot be carried and the curve and a capital to batch drill this was that the well is cemented the csg annulus, and the contact the BLM to skid the	d lateral. ell if necessa d properly an installation o e rig to drill th d, XTO will b	ury. In doing so,) d the well is stat of a 10K TA cap e remaining well	To with set it. With as per &E, is on the parorduction	bad Field perator C	office Copy	
14. Thereby certify that the foregoing is	s true and correct.					<u>V</u>]	
Com	#Electronic Submission For XTO ENERG mitted to AFMSS for proce	Y INCORPO	RATED. sent to th	ne Carlsbad	-		
Name (Printed/Typed) KELLY KARDOS Title REGULATORY COORDINATOR							
Signature (Electronic Submission) Date 02/05/2020 THIS SPACE FOR FEDERAL OR STATE OFFICE USE							
Approved By ALLISON MORENC	:Y		TitlePETROLE	UM ENGIN	EER	Date 02/20/2020	
Conditions of approval, if any, are attache							

14. Thereby certify that the foregoing is true and correct. Electronic Submission #502095 verified For XTO ENERGY INCORPOR Committed to AFMSS for processing by PRI	RATED, sent to the Carlsbad	,
Name (Printed/Typed) KELLY KARDOS	Title REGULATORY COORDINATOR	
Signature (Electronic Submission)	Date 02/05/2020	
THIS SPACE FOR FEDERA	L OR STATE OFFICE USE	
Approved By ALLISON MORENCY	TitlePETROLEUM ENGINEER	Date 02/20/2020
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office Carlsbad	
Title=18 U.S.CSection 1001 and Title 43 U.S.C. Section 1212 make it a crime for any n	erson knowingly and willfully to make to any department or agen	cy 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.

All 3-18-20

Additional data for EC transaction #502095 that would not fit on the form

32. Additional remarks, continued

Chain-Blue Lightning 26 Fed 167H 30-015-46646 Chain-Blue Lightning 26 Fed 107H 30-015-46642 Chain-Blue Lightning 26 Fed 127H 30-015-46645

Revisions to Operator-Submitted EC Data for Sundry Notice #502095

Operator Submitted

BLM Revised (AFMSS)

Sundry Type:

APDCH NOI

APDCH~

Lease:

NMNM120895

NMNM120895

Agreement:

Operator:

XTO ENERGY INC. 6401 HOLIDAY HILL RD BLDG 5 MIDLAND, TX 79707 Ph: 432-620-4374

Admin Contact:

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

Ph: 432-620-4374

Tech Contact:

KELLY KARDOS REGULATORY COORDINATOR

E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374

Location:

State: County: NM **EDDY**

Field/Pool:

PURPLE SAGE; WOLFCAMP

Well/Facility:

CHAIN-BLUE LIGHTNING 26 FED 127H Sec 23 T25S R29E Mer NMP SESE 295FSL 523FEL

XTO ENERGY INCORPORATED 6401 HOLIDAY HILL ROAD BLDG 5 MIDLAND, TX 79707 Ph: 432.683 2277

KELLY KARDOS REGULATORY COORDINATOR

E-Mail: kelly_kardos@xtoenergy.com

Ph: 432-620-4374

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

Ph: 432-620-4374

NM EDDY

PURPLE SAGE-WOLFCAMP (GAS)

CHAIN-BLUE LIGHTNING 26 FED 127H Sec 23 T25S R29E SESE 295FSL 523FEL

32.108967 N Lat, 103.948265 W Lon

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

XTO Energy Inc. Chain-Blue Lightning 26 Fed 127H Projected TD: 15931' MD / 10631' TVD

SHL: 295' FSL & 523' FEL , Section 23, T25S, R29E BHL: 200' FSL & 750' FEL , Section 26, T25S, R29E

Eddy County, NM

1. Geologic Name of Surface Formation

A. Permian

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	586'	Water
Top of Salt	766'	Water
Base of Salt	3017'	Water
Delaware	3242'	Water
Bone Spring	7037'	Water/Oil/Gas
1st Bone Spring Ss	7980'	Water/Oil/Gas
2nd Bone Spring Ss	8842'	Water/Oil/Gas
3rd Bone Spring Ss	9908'	Water/Oil/Gas
Wolfcamp	10254'	Water/Oil/Gas
Target/Land Curve	10631'	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 16 inch casing @ ' (766' above the salt) and circulating cement back to surface. The salt will be isolated by setting 11-3/4 inch casing at 660' and circulating cement to surface. A 10-5/8 inch vertical hole will be drilled to 9831' and 8-5/8 inch casing ran and cemented 500' into the 11-3/4 inch casing. An 7-7/8 inch curve and lateral hole will be drilled to MD/TD and 5-1/2 casing will be set at TD and cemented back 300' into the 8-5/8 inch casing shoe.

3. Casing Design

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
14-3/4"	0' - 660'	11-3/4"	47	ВТС	J-55	New	1.26	4.40	15.38
10-5/8"	0' – 9831'	8-5/8"	32	BTC	HCL-80	New	1.46	1.54	2.33
7-7/8"	0' – 15931'	5-1/2"	20	втс	P-110	New	1.18	1.83	2.63

[·] XTO requests to not utilize centralizers in the curve and lateral

- 8-5/8" Collapse analyzed using 50% evacuation based on regional experience.
- 5-1/2" 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

WELLHEAD:

Permanent Wellhead - GE RSH Multibowl System

- A. Starting Head (RSH System): 11-3/4" SOW bottom x 13-5/8" 5M top flange
- 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.
 - Operator will test the 8-5/8" casing per Onshore Order 2.
 - Wellhead manufacturer representative may not be present for BOP test plug installation

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

4. Cement Program

Surface Casing: 11-3/4", 47 New J-55, BTC casing to be set at +/- 660"

Lead: 160 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 190 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

Top of Cement: Surface

Intermediate Casing: 8-5/8", 32 New HCL-80, BTC casing to be set at +/- 9831' ECP/DV Tool to be set at 4101' 1st Stage

Lead: 640 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.87 ft3/sx, 9.61 gal/sx water)

Tail: 250 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.35 ft3/sx, 6.39 gal/sx water)

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

2nd Stage

Lead: 1040 sxs Halcem-C + 2% CaCl (mixed at 12.8 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 310 sxs Halcem-C + 2% CaCl (mixed at 14.8 ppg, 1.33 ft3/sx, 6.39 gal/sx water)

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

Top of Cement: 200' inside previous casing shoe

Production Casing: 5-1/2", 20 New P-110, BTC casing to be set at +/- 15931"

Lead: 1000 sxs Halcem-C + 2% CaCl (mixed at 11.5 ppg, 1.88 ft3/sx, 9.61 gal/sx water)

Tail: 1000 sxs VersaCem (mixed at 13.2 ppg, 9531 ft3/sx, 8.38 gal/sx water)

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

Top of Cement: 300' inside previous casing shoe

5. Pressure Control Equipment

Once the permanent WH is installed on the 13-3/8 casing, the blow out preventer equipment (BOP) will consist of a 13-5/8" minimum 5M Hydril and a 13-5/8" minimum 5M 3-Ram BOP. MASP should not exceed 3742 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). Also a variance is requested to test the 5M annular to 70% of working pressure at 3500 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 the 11-3/4" and 8-5/8" casing is set, the packoff seals 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 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.

6. Proposed Mud Circulation System

INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' to 660'	14-3/4"	FW / Native	8.4-8.8	30-40	NC
660' to 9831'	10-5/8"	BW/FWM/Dir cct Emulsion	8.7-9.8	29-32	NC - 20
9831' to 15931'	7-7/8"	FW / Cut Brine / Polymer/ OBM	10.5-11.5	32-50	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 and set 11 3/4" surface casing, isolating the fresh water aquifer. Drill out from under 11-3/4" surface casing with a brine/oil direct emulsion water-based mud. 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 11-3/4" casing.

8. Logging, Coring and Testing Program

Mud Logger: Mud Logging Unit (2 man) below 1st intermediate casing.

Open hole logging will not be done on this well.

9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 145 to 165 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 6081 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.