Form 3160-5 (June 2015) DE Bl	UNITED STATES PARTMENT OF THE IN JREAU OF LAND MANAG	VTERIOR CALISDA	DATESIA CHICC OMB DATESIA Expires: NMNM17056	A APPROVED NO. 1004-0137 January 31, 2018
Do not use thi	NOTICES AND REPOI is form for proposals to II. Use form 3160-3 (APL	RTS ON WELLS	6. If Indian, Allotted	
	RIPLICATE - Other inst	· · ·	7. If Unit or CA/Ag	reement, Name and/or No.
1. Type of Well ☑ Oil Well □ Gas Well □ Oth	er		8. Well Name and N NASH UNIT 402	
2. Name of Operator XTO ENERGY INCORPORAT	Contact:	KELLY KARDOS ss@xtoenergy.com	9. API Well No. 30-015-45504	-00-X1
3a. Address 6401 HOLIDAY HILL ROAD E MIDLAND, TX 79707	BLDG 5	3b. Phone No. (include area code) Ph: 432-620-4374	10. Field and Pool of WILDCAT-WC	
4. Location of Well <i>(Footage, Sec., T</i> Sec 19 T23S R30E NWNE 66 32.295914 N Lat, 103.918457	0FNL 1905FEL		11. County or Parisl EDDY COUN	
12. CHECK THE AI	PPROPRIATE BOX(ES)	TO INDICATE NATURE OF	NOTICE, REPORT, OR O	THER DATA
TYPE OF SUBMISSION		TYPE OF	ACTION	
Notice of Intent	 Acidize Alter Casing 	Deepen Hydraulic Fracturing	 Production (Start/Resume) Reclamation 	□ Water Shut-Off □ Well Integrity
Subsequent Report Final Abandonment Notice	Casing Repair	 New Construction Plug and Abandon 	Recomplete Temporarily Abandon	Other Change to Original A
_	Convert to Injection	Plug Back	U Water Disposal	PD
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for f	ally or recomplete horizontally, rk will be performed or provide l operations. If the operation res- bandonment Notices must be fil- inal inspection.	give subsurface locations and measur the Bond No. on file with BLM/BIA sults in a multiple completion or reco ed only after all requirements, includi	ed and true vertical depths of all per Required subsequent reports must mpletion in a new interval, a Form 3 ng reclamation, have been complete	tinent markers and zones. be filed within 30 days 160-4 must be filed once
XTO Energy Inc, requests per procedure.	mission to revise the casi		U	
See attached	, for chav	iges/notes	ECOA F Smango FE	RECEIVED
Del attached Accepted for record	/22/19 . NMOCD	-Dylan Ros	$\langle \boldsymbol{\boldsymbol{\varsigma}} \boldsymbol{\boldsymbol{Z}} \rangle \rangle$	B 2 1 2019 II-ARTESIA O.C.D.
14. I hereby certify that the foregoing is	Electronic Submission # For XTO ENER	453479 verified by the BLM Well GY INCORPORATED, sent to th essing by PRISCILLA PEREZ or	e Carlsbad	

Name(Printed/Typed)	KELLY KARDOS	Title	REGULATORY COORDINATOR

(Electronic Submission) Date 02/06/2019 Signature THIS SPACE FOR FEDERAL OR STATE OFFICE USE _Approved By_DYLAN_ROSSMANGO_ TitlePETROLEUM ENGINEER Date 02/15/2019 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.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Pup2-22-19

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

XTO Energy Inc. Nash 402H Projected TD: 26731' MD / 10535' TVD SHL: 660' FNL & 1905' FEL , Section 19, T23S, R30E BHL: 200' FNL & 1650' FEL , Section 6, T23S, R30E Eddy County, NM

1. Geologic Name of Surface Formation

Quatemarv Α.

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

Formation	Well Depth (TVD)	Water/Oil/Gas
Rustler	162'	Water
Top of Salt	593'	Water
Base of Satt	3174'	Water
Delaware	3396'	Water
Bone Spring	7188'	Water
1st Bone Spring Ss	8142'	Water/Oil/Gas
2nd Bone Spring Ss	8969'	Water/Oil/Gas
3rd Bone Spring Ss	10062'	Water/Oil/Gas
Wolfcamp	10430'	Water/Oil/Gas
Target/Land Curve	10535'	Water/Oil/Gas

*** Hydrocarbons @ Brushy Canyon

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

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 18-5/8" inch casing @ 568' (25' above the salt) and circulating cement back to surface. The salt will be isolated by setting 13-3/8" inch casing at 3224' and circulating cement to surface. The second intermediate will isolate from the salt down to the next casing seat by setting 9-5/8" inch casing at 9350' and a DV tool at 3274'. A 8-3/4" inch curve and lateral hole will be drilled to MD/TD and 5-1/2 inch casing will be set at TD and cemented back up to

surface per Potas	sh regulations			5' due to		· · · · · · · · · · · · · · · · · · ·		n Bl	M Geo	ologists.
Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension	
24"	0-558	18-5/8"	87.5	STC	H-40	New	1.66	2.42	11.25	
17-1/2"	0' - 3224'	13-3/8"	68	STC	J-55	New	1.35	1.95	3.08	
12-1/4"	0' – 9350'	9-5/8"	40	LTC	J-55	New	1.92	1.60	1.94	
8-3/4"	0' – 26731'	5-1/2"	17	BTC	P-110	New	1.12	1.41	1.95	

· XTO requests to utilize centralizers only in the curve after the KOP and only a minimum of one every other joint.

· 13-3/8" Collapse analyzed using 50% evacuation based on regional experience.

· 9-5/8" Collapse analyzed using 33% 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 2M Annular & Casing will be limited to 70% burst of the casing or 1500 psi, whichver is less

Wellhead: Temporary Wellhead

· 18-5/8" SOW bottom x 21-1/4" 2M top flange.

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.
- · Operator will test the 9-5/8" casing per BLM Onshore Order 2
- · Wellhead Manufacturer representative will not be present for BOP test plug installation

4. Cement Program

Surface Casing: 18-5/8", 87.5 New H-40, STC casing to be set at +/- 568'

Lead: 350 sxs EconoCem-HLTRRC (mixed at 14.8 ppg, 1.50 me Compressives: 12-hr = 900 psi 24 hr = 1500 psi 1st Intermediate Casing: 13-3/8", 68 New J-55, STC casing to be set at +/- 3224' - 15% Compressives: 12-hr = 900 psi 24 hr = 1500 psi 1st Intermediate Casing: 13-3/8", 68 New J-55, STC casing to be set at +/- 3224' - 15% Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Intermediate Casing: 9-5/8", 40 New J-55, LTC casing to be set at +/- 9350' ECP/DV Tool to be set at 3274' 1st Stage

Lead: 1850 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) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

2nd Stage

Lead: 920 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) Compressives: 12-hr = 900 psi 24 hr = 1500 psi

Production Casing: 5-1/2", 17 New P-110, BTC casing to be set at +/- 26731'

Lead: 800 sxs NeoCem (mixed at 10.5 ppg, 2.69 ft3/sx, 12.26 gal/sx water)

Tail: 3540 sxs VersaCem (mixed at 13.2 ppg, 1.61 ft3/sx, 8.38 gal/sx water) Compressives: 12-hr = 1375 psi 24 hr = 2285 psi

5. Pressure Control Equipment

The blow out preventer equipment (BOP) on surface casing temporary wellhead will consist of a 21-1/4" minimum 2M Hydril. MASP should not exceed 984 psi.

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 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. MASP should not exceed 2996 psi.

All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the igcupworking pressure. When nippling up on the 13-3/8", 3M bradenhead and flange, the BOP test will be limited to 3000 psi. When nippling up on the 9-5/8", the BOP will be tested to a minimum of 3000 psi. All BOP tests will include a low pressure test as per BLM regulations. The 3M 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.

system upgraded to

>More cont may be required.

6. Proposed Mud Circulation System

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INTERVAL	Hole Size	Mud Type	MW (ppg)	Viscosity (sec/qt)	Fluid Loss (cc)
0' - 568'	24"	FW/Native	8.4-8.8	35-40	NC
568' - 3224'	17-1/2"	Brine	9.8-10.2	30-32	NC
3224' to 9350'	12-1/4"	FW / Cut Brine	8.7-9.4	30-32	NC
9350' to 26731'	8-3/4"	Cut Brine / Polymer	9.4 - 9.7	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 18-5/8" surface casing with brine solution. A ppg-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.

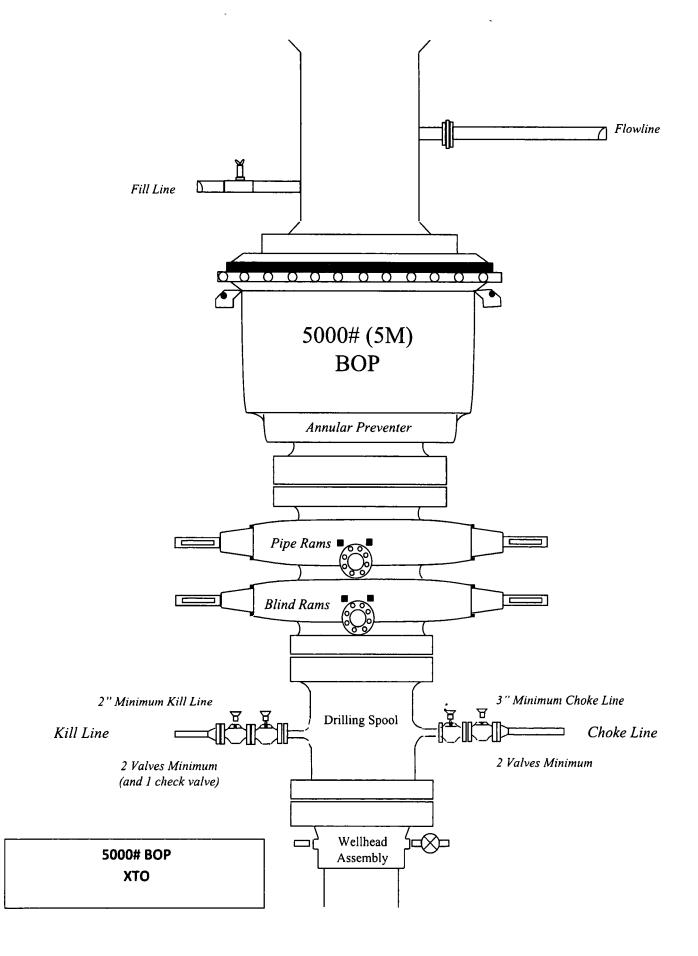
9. Abnormal Pressures and Temperatures / Potential Hazards

None Anticipated. BHT of 170 to 190 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 5314 psi.

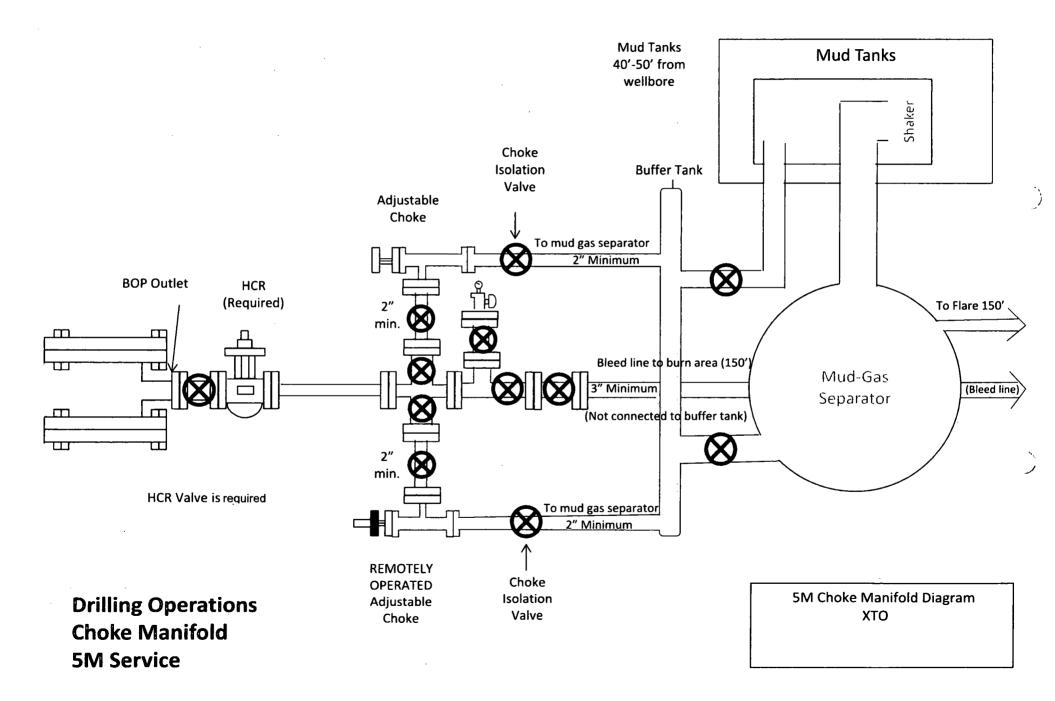
10. Anticipated Starting Date and Duration of Operations

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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.



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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

Cusioniai .	AUSTIN DISTRIBUTING	Test Date:	
Costomer Ref. :	PENDING	-1	6/5/201-
invoice No. :	201709	Hose Serval No.	D-060814-1
L_		Created By.	NORIA
Product Description:			
L		FD3.042.0R41/16.5KFLGE/E	
	4 1/16 m.5K FLG	7	······
End Pittana 1 :	-1 1/16 m.5K FLG 4774-6001	End Filling 2 -	4 1/16 in.5K FLG
Sales Part No. :		7	······

Gates E & S North America, Inc. certifies that the following hose assembly has been tested to the Gates Oilfield Roughneck Agreement/Specification requirements and passed the 15 minute hydrostatic test per API Spec 7K/Q1, Fifth Edition, June 2010, Test pressure 9.6.7 and per Table 9 to 7,500 psi in accordance with this product number. Hose burst pressure 9.6.7.2 exceeds the minimum of 2.5 times the working pressure per Table 9.

Quality: Dist Signature :	// QUALITY /// . 6/8/2014/// /////////////////////////////////	Technical Supervision : Date : Signature :	PRODUCTION 56/8/2014

Form PTC 01 Rev.0 2

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME:	ХТО
LEASE NO.:	NMNM17056
WELL NAME & NO.:	Nash Unit 402H
SURFACE HOLE FOOTAGE:	660' FNL & 1905' FEL
BOTTOM HOLE FOOTAGE	200' FNL & 1650' FEL
LOCATION:	Section 19, T. 23 S., R 30 E., NMPM
COUNTY:	Eddy County, New Mexico

Potash	∩ None	C Secretary	• R-111-P
Cave/Karst Potential	C Low		🕶 High
Variance	C None	Flex Hose	C Other
Wellhead	Conventional	Multibowl	
Other	□4 String Area	□Capitan Reef	

A. Hydrogen Sulfide

1. 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 18-5/8" surface casing shall be set at approximately 375' (a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface. If salt is encountered, set casing 25' above first contact.
 - a. WOC time for a primary cement job will be a minimum of <u>24 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - b. If cement does not circulate to 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 6 hours after pumping cement, ideally between 8-10 hours after completing the cement job.
 - c. If cement falls back, remedial cementing will be done prior to drilling out that string.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.
- 2. The 13-3/8" intermediate casing shall be set at approximately 3224' and cemented to surface.
 - a. WOC time for a primary cement job will be a minimum of 24 hours or 500 psi

compressive strength, whichever is greater. This is to include the lead cement.

- b. If cement does not circulate to surface, see B.1.b, c & d. BLM calculates a negative excess of 15%, more cement may be required.
- 3. The minimum required fill of cement behind the 9-5/8" intermediate casing is:
 - a. Cement shall tie-back at least 100 feet into previous casing string. Operator shall provide method of verification. BLM calculates a negative excess of 35%, more cement may be required.
 - b. If cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 4. The minimum required fill of cement behind the 5-1/2" production casing is:
 - a. Cement shall tie-back at least 100 feet into previous casing string. Operator shall provide method of verification.
 - b. If cement does not circulate to surface on the first three casing strings, the cement on the 4th casing string must come to surface.

C. PRESSURE CONTROL

- 1. The 13-3/8" intermediate casing must be fluid-filled at all times to meet BLM collapse requirements.
- 2. 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).
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M)** psi.
- Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 9-5/8" intermediate casing shoe shall be 5000 (5M) psi.
- 5. 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.

DR 2/15/2019