

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires October 31, 2014

5. Lease Serial No.  
NMNM016353

6. If Indian, Allottee or Tribe Name

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2. Name of Operator  
XTO ENERGY INCORPORATED

3a. Address  
810 Houston St. Ft. Worth TX 76102

3b. Phone No. (include area code)  
(432)620-6700

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface SWSW / 265 FSL / 785 FWL / LAT 32.182005 / LONG -103.668522

At proposed prod. zone NWNW / 200 FNL / 660 FWL / LAT 32.209749 / LONG -103.668928

14. Distance in miles and direction from nearest town or post office\*

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
OUTRIDER FEDERAL 5H

9. API Well No.  
30-025-44820

10. Field and Pool, or Exploratory  
Wildcat

11. Sec., T. R. M. or Blk. and Survey or Area

SEC 27 / T24S / R32E / NMP

12. County or Parish  
LEA

13. State  
NM

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
265 feet

16. No. of acres in lease  
1720

17. Spacing Unit dedicated to this well  
320

18. Distance from proposed location\*  
to nearest well, drilling, completed, 1610 feet  
applied for, on this lease, ft.

19. Proposed Depth  
10801 feet / 20648 feet

20. BLM/BIA Bond No. on file  
FED: COB000050

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
3528 feet

22. Approximate date work will start\*  
05/01/2018

23. Estimated duration  
90 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature  
(Electronic Submission)

Name (Printed/Typed)  
Stephanie Rabadue / Ph: (432)620-6714

Date  
01/01/2018

Title  
Regulatory Compliance Analyst

Approved by (Signature)  
(Electronic Submission)

Name (Printed/Typed)  
Cody Layton / Ph: (575)234-5959

Date  
05/16/2018

Title  
Supervisor Multiple Resources

Office  
CARLSBAD

Application approval 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.  
Conditions of approval, if any, are attached.

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.

(Continued on page 2)

SCP Rec 5/27/18

APPROVED WITH CONDITIONS

Approval Date: 05/16/2018

K2  
05/24/18  
(Instructions on page 2)

Double  
Sider

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to allow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications.

Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

## **Additional Operator Remarks**

### **Location of Well**

1. SHL: SWSW / 265 FSL / 785 FWL / TWSP: 24S / RANGE: 32E / SECTION: 27 / LAT: 32.182005 / LONG: -103.668522 ( TVD: 0 feet, MD: 0 feet )  
PPP: SWSW / 1320 FSL / 660 FWL / TWSP: 24S / RANGE: 32E / SECTION: 22 / LAT: 32.1958333 / LONG: -103.6702778 ( TVD: 10801 feet, MD: 16480 feet )  
PPP: SWSW / 865 FSL / 785 FWL / TWSP: 24S / RANGE: 32E / SECTION: 27 / LAT: 32.183665 / LONG: -103.673726 ( TVD: 10250 feet, MD: 11200 feet )  
BHL: NWNW / 200 FNL / 660 FWL / TWSP: 24S / RANGE: 32E / SECTION: 22 / LAT: 32.209749 / LONG: -103.668928 ( TVD: 10801 feet, MD: 20648 feet )

## **BLM Point of Contact**

Name: Priscilla Perez

Title: Legal Instruments Examiner

Phone: 5752345934

Email: pperez@blm.gov

### **Review and Appeal Rights**

A person contesting a decision shall request a State Director review. This request must be filed within 20 working days of receipt of the Notice with the appropriate State Director (see 43 CFR 3165.3). The State Director review decision may be appealed to the Interior Board of Land Appeals, 801 North Quincy Street, Suite 300, Arlington, VA 22203 (see 43 CFR 3165.4). Contact the above listed Bureau of Land Management office for further information.

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

Outrider\_Fed\_3MCM\_20180101084452.pdf

Outrider\_Fed\_3MBOP\_20180101084459.pdf

### Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	17.5	13.375	NEW	API	N	0	1100	0	1100			1100	H-40	48	STC	1.53	2.31	DRY	6.1	DRY	6.1
2	INTERMEDIATE	12.25	9.625	NEW	API	N	0	4802	0	4802			4802	J-55	36	LTC	1.12	2	DRY	2.62	DRY	2.62
3	PRODUCTION	8.75	5.5	NEW	API	N	0	20648	0	10801			20648	P-110	17	BUTT	1.48	1.12	DRY	1.62	DRY	1.62

### Casing Attachments

**Casing ID:** 1      **String Type:** SURFACE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Outrider\_Fed\_5H\_Csg\_20180101101621.pdf

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

#### Casing Attachments

Casing ID: 2 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Outrider\_Fed\_5H\_Csg\_20180101101647.pdf

Casing ID: 3 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Outrider\_Fed\_4H\_Csg\_20180101095830.pdf

#### Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	661	661	1.68	13.7	1110.48	100	ExtendaCem-CZ	None
SURFACE	Tail				308	1.35	14.8	415.8	100	HalCem-C	2% CaCl
INTERMEDIATE	Lead		0	4774	1433	1.88	12.9	2694.04	100	EconoCem-HLC	5% salt + 5 lbm/sk Kol-Seal
INTERMEDIATE	Tail				235	1.33	14.8	312.55	100	Halcem-C	none
PRODUCTION	Lead		0	20648	619	2.69	10.5	1665.11	30	Tuned Light	0.5 lbm/sk CFR-3 + 1.5 lbm/sk salt + 0.1%

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
											HR601
PRODUCTION	Tail				2298	1.61	13.2	3699.78	30	VersaCem PBHS2	0.5% LAP-1 + 0.25 lbm/sk D-air 5000 + 0.2% HR 601 + 0.4% CFR-3 + 1 pps Salt

### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: The necessary mud products for weight addition and fluid loss control will be on location at all times.

Describe the mud monitoring system utilized: A Pason or Totco will be used to detect changes in loss or gain of mud volume.

### Circulating Medium Table

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
4802	2064 8	OTHER : FW /Cut Brine/Poly-Sweeps	8.6	9							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
0	1100	OTHER : FW/Native	8.4	8.8							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

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

Top Depth	Bottom Depth	Mud Type	Min Weight (lbs/gal)	Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	PH	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
1100	4802	OTHER : Brine/Gel Sweeps	9.8	10.2							help keep mud weight down after mud up. Rig up solids control equipment to operate as a closed loop system
											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

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

Open hole logging to include Density/Neutron/PE/Dual Laterlog/Spectral Gamma from kick-off point to intermediate casing shoe.

**List of open and cased hole logs run in the well:**

CBL,CNL,DS,GR,MUDLOG

**Coring operation description for the well:**

No coring will take place on this well.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 5055

**Anticipated Surface Pressure:** 2800

**Anticipated Bottom Hole Temperature(F):** 160

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

Potential loss of circulation through the Capitan Reef.

**Contingency Plans geohazards description:**

The necessary mud products for weight addition and fluid loss control will be on location at all times. 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. 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.

**Contingency Plans geohazards attachment:**



**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Hydrogen Sulfide drilling operations plan required? YES**

**Hydrogen sulfide drilling operations plan:**

Outrider\_Fed\_H2S\_Plan\_20180101084525.pdf

Outrider\_Fed\_5H\_H2S\_Dia\_20180101101910.pdf

## **Section 8 - Other Information**

**Proposed horizontal/directional/multi-lateral plan submission:**

Outrider\_Fed\_5H\_DD\_20180101101929.pdf

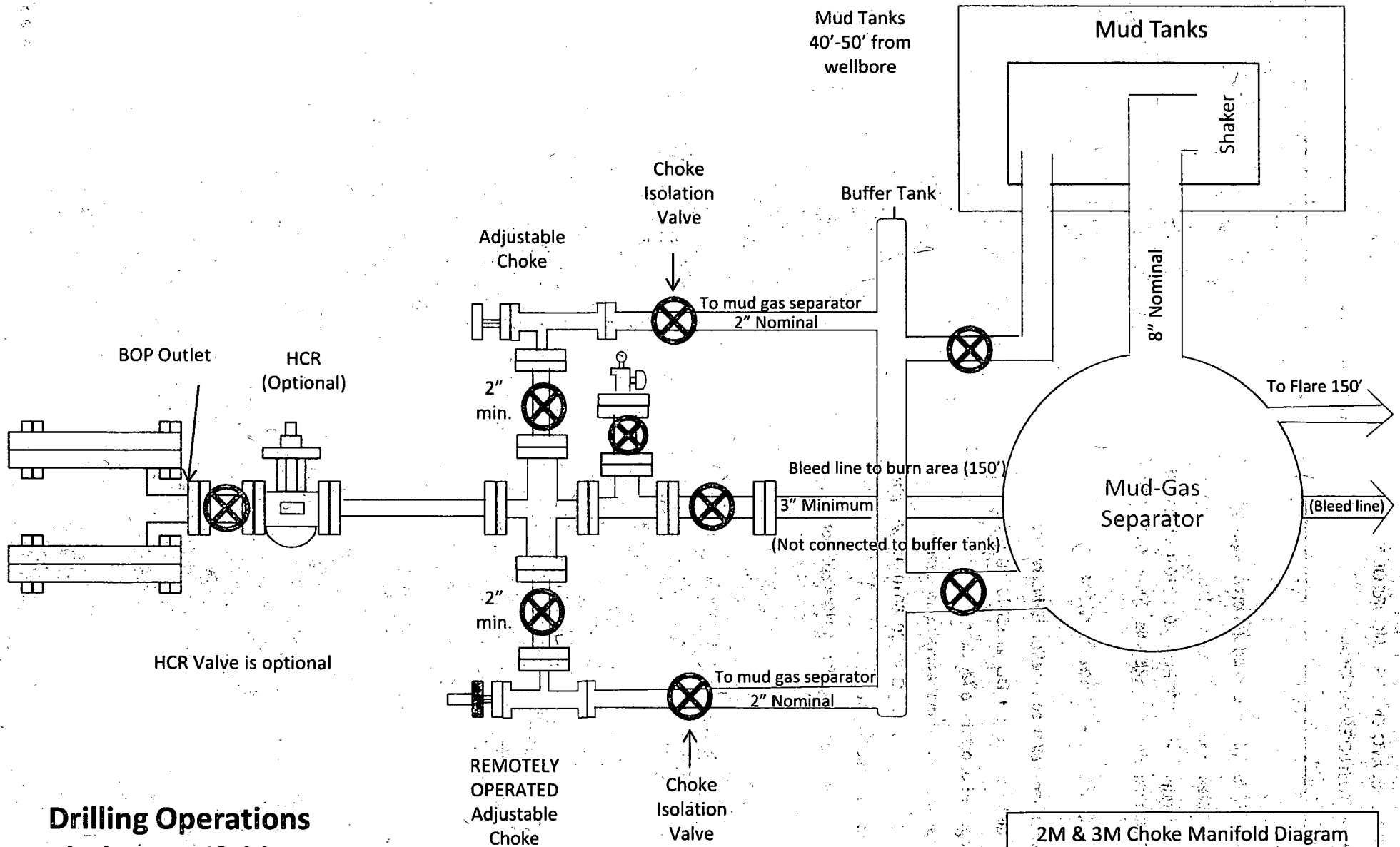
**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

Outrider\_Fed\_5H\_GCP\_20180101101939.pdf

**Other Variance attachment:**

Outrider\_Fed\_FH\_20180101084605.pdf



# **Drilling Operations** **Choke Manifold** **2M & 3M Service**

2M & 3M Choke Manifold Diagram  
 XTO Energy, Inc

Fill Line

Flowline

3000# (3M)  
BOP

SRR & A

Annular Preventer

Pipe Rams

Blind Rams

2" Minimum Kill Line

Kill Line

1 Kill Line Valve  
(Minimum)

Drilling Spool

2" Minimum Choke Line

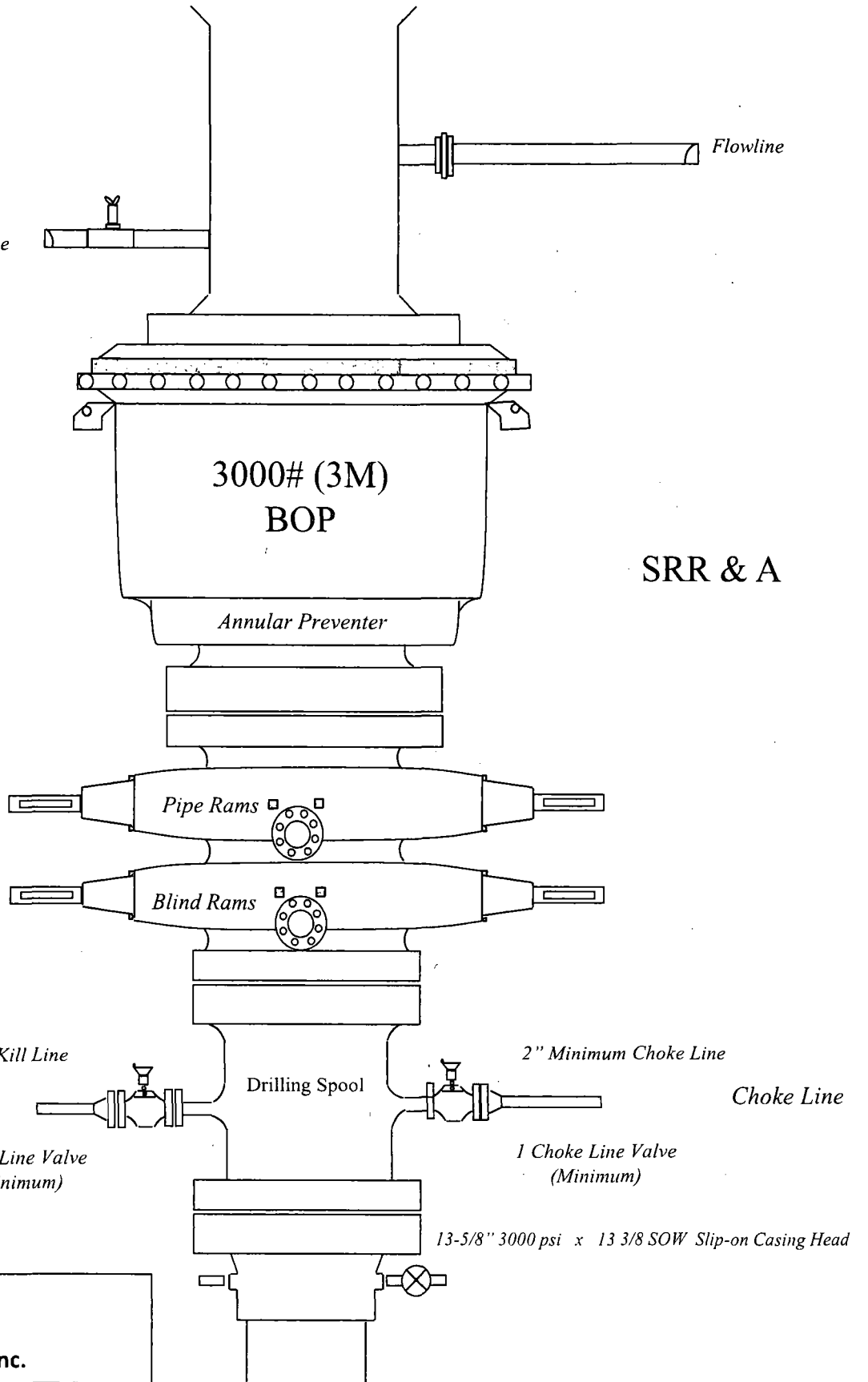
Choke Line

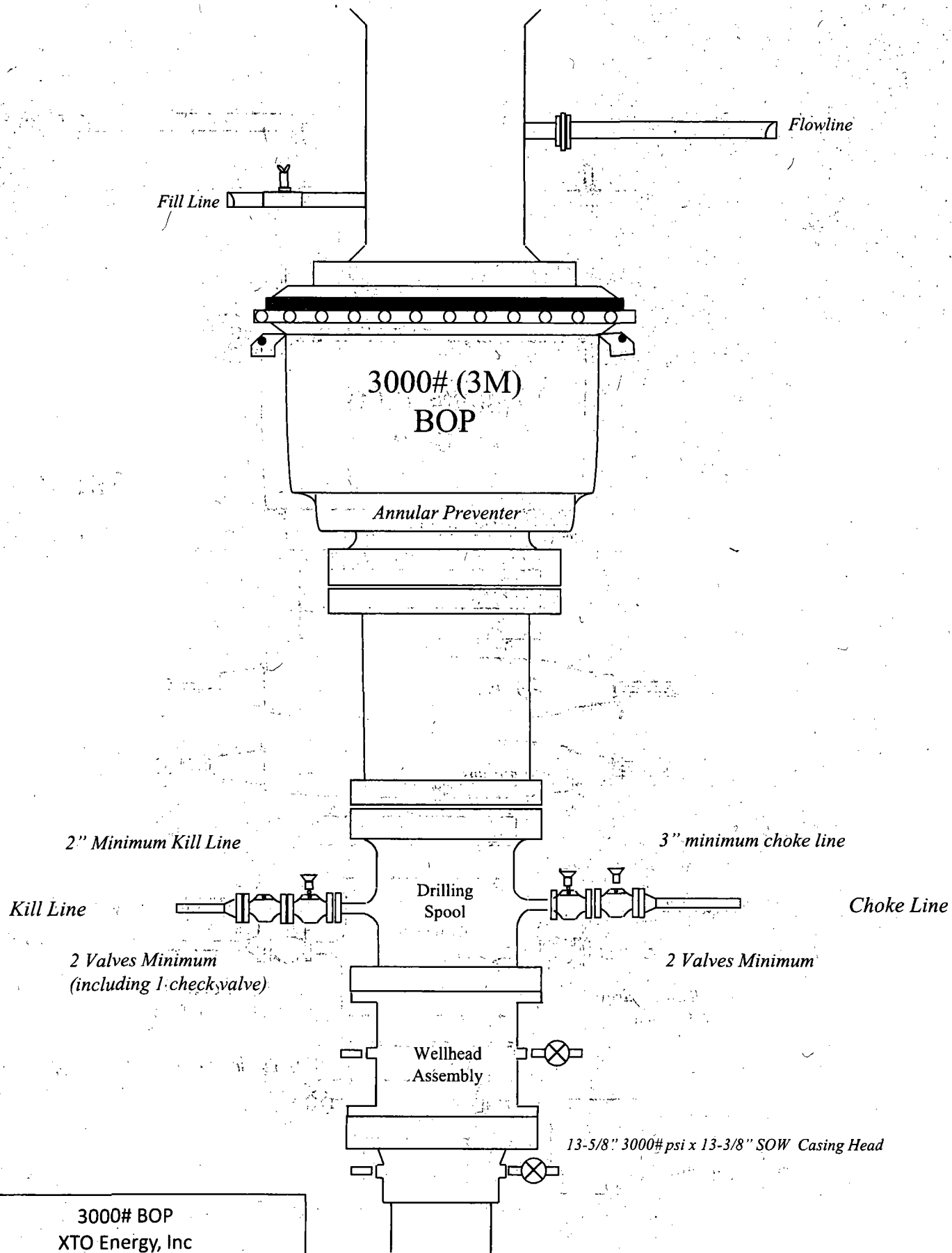
1 Choke Line Valve  
(Minimum)

13-5/8" 3000 psi x 13 3/8 SOW Slip-on Casing Head

3000# BOP

XTO Energy, Inc.





3000# BOP  
XTO Energy, Inc

XTO Energy Inc.  
Outrider Federal 1H  
Projected TD: 20574' MD / 10729' TVD  
Lea County, NM

**1. CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1100'	13-3/8"	48#	STC	H-40	New	2.31	1.53	6.10
12-1/4"	0' – 4713'	9-5/8"	36#	LTC	J-55	New	2.00	1.14	2.67
8-3/4"	0' – 20574'	5-1/2"	17#	BTC	P-110	New	1.12	1.49	1.62

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

**WELLHEAD:**

- A. Starting Head: 13-5/8" 3M top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3M bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5M bottom flange x 7-1/16" 10M top flange

XTO Energy Inc.  
Outrider Federal 4H  
Projected TD: 20632' MD / 10798' TVD  
Lea County, NM

**1. CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1100'	13-3/8"	48#	STC	H-40	New	2.31	1.53	6.10
12-1/4"	0' - 4774'	9-5/8"	36#	LTC	J-55	New	2.00	1.12	2.64
8-3/4"	0' - 20632'	5-1/2"	17#	BTC	P-110	New	1.12	1.48	1.62

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

**WELLHEAD:**

- A. Starting Head: 13-5/8" 3M top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3M bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5M bottom flange x 7-1/16" 10M top flange

XTO Energy Inc.  
Outrider Federal 4H  
Projected TD: 20632' MD / 10798' TVD  
Lea County, NM

**1. CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' – 1100'	13-3/8"	48#	STC	H-40	New	2.31	1.53	6.10
12-1/4"	0' – 4774'	9-5/8"	36#	LTC	J-55	New	2.00	1.12	2.64
8-3/4"	0' – 20632'	5-1/2"	17#	BTC	P-110	New	1.12	1.48	1.62

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

**WELLHEAD:**

- A. Starting Head: 13-5/8" 3M top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3M bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5M bottom flange x 7-1/16" 10M top flange

XTO Energy Inc.  
Outrider Federal 5H  
Projected TD: 20648' MD / 10801' TVD  
Lea County, NM

**1. CASING PROGRAM:**

Hole Size	Depth	OD Csg	Weight	Collar	Grade	New/Used	SF Burst	SF Collapse	SF Tension
17-1/2"	0' - 1100'	13-3/8"	48#	STC	H-40	New	2.31	1.53	6.10
12-1/4"	0' - 4802'	9-5/8"	36#	LTC	J-55	New	2.00	1.12	2.62
8-3/4"	0' - 20648'	5-1/2"	17#	BTC	P-110	New	1.12	-1.48	1.62

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

**WELLHEAD:**

- A. Starting Head: 13-5/8" 3M top flange x 13-3/8" SOW bottom
- B. 'B' Section/ Drilling Spool: 13-5/8" 3M bottom flange x 11" 5M top flange
- C. Tubing Head: 11" 5M bottom flange x 7-1/16" 10M top flange





U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## SUPO Data Report

05/16/2018

APD ID: 10400025937

Submission Date: 01/01/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? NO

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Outrider\_Fed\_5H\_Road\_20180101101306.pdf

New road type: RESOURCE

Length: 513.7 Feet

Width (ft.): 30

Max slope (%): 2

Max grade (%): 3

Army Corp of Engineers (ACOE) permit required? NO

ACOE Permit Number(s):

New road travel width: 14

**New road access erosion control:** The access road will be constructed and maintained as necessary to prevent soil erosion and accommodate all-weather traffic. The road will be crowned and ditched with water turnouts installed as necessary to provide for proper drainage along with access road route.

New road access plan or profile prepared? NO

New road access plan attachment:

Access road engineering design? NO

Access road engineering design attachment:

Access surfacing type: OTHER

Access topsoil source: ONSITE

Access surfacing type description: Surface material will be native caliche

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Approximately 6 inches of topsoil (root zone) will be stripped from the proposed access road prior to any further construction activity. The topsoil that was stripped will be spread along the edge of the road and within the ditch. The topsoil will be seeded with the proper seed mix designated by the BLM.

**Access other construction information:** Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities.

**Access miscellaneous information:** From the intersection of Hwy 128 and Co Rd. J1 (Orla Rd), go South on Co. Rd. J1 approximately 2.3 miles. Turn right and go west approximately .9 miles to the proposed access road. Follow staked road North 52.8' to the Southeast corner of this location.

**Number of access turnouts:** 0

**Access turnout map:**

### **Drainage Control**

**New road drainage crossing:** OTHER

**Drainage Control comments:** The access road and associated drainage structures will be constructed and maintained in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

**Road Drainage Control Structures (DCS) description:** No drainage control structures were identified at onsite. Drainage control structures will be applied for as-needed and be in accordance with road guidelines contained in the joint BLM/USFS publication: Surface Operating Standards for Oil and Gas Exploration and Development, The Gold Book, Fourth Edition and/or BLM Manual Section 9113 concerning road construction standards on projects subject to federal jurisdiction.

**Road Drainage Control Structures (DCS) attachment:**

### **Access Additional Attachments**

**Additional Attachment(s):**

### **Section 3 - Location of Existing Wells**

**Existing Wells Map?** YES

**Attach Well map:**

Outrider\_Fed\_1\_Mile\_20180101083134.pdf

**Existing Wells description:**

### **Section 4 - Location of Existing and/or Proposed Production Facilities**

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** No additional production facility (CTB) is required. An existing CTB was approved and built under the Outrider Federal #6H APD located at the North end of Section 28-T24S-R32E. See attached plat for additional details. CTB was staked with Trish Bad Bear, Natural Resource Specialist, and approved by Bob Ballard. All permanent (on site six months or longer) aboveground structures constructed or installed on location and not subject to safety requirements will be painted to BLM specifications. Containment berms will be constructed completely around any production facilities designed to hold fluids. The containment berms will be constructed of compacted subsoil, be sufficiently impervious, hold 1 ½

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

times the capacity of the largest tank and away from cut or fill areas. Flowlines: 2 lines no more than 13453' will be run across the approved well pad, headed West under Co. Rd. J1 (Orla Rd) and run along the North of the Outrider Federal 1H, 2H, 3H, and 4H well pads to the section line, then run North following existing disturbance to the CTB.. Flowlines will be buried. One flowline is to take production from WH to CTB, will be 4" and 125psi or less. The second flowline will be a HP gas lift line. Electrical: Approximately 10676' of 12,740 volt electrical line will be run from the well pad headed West over Co. Rd. J1 (Orla Rd) and run along the North of the Outrider Federal 1H, 2H, 3H, and 4H well pads to the section line, then run North following existing disturbance to the CTB. Gas Sales Line: No gas sales line is needed for this facility. Gas sales line is installed at the CTB.

**Production Facilities map:**

Outrider\_Fed\_OHE\_20180101083220.pdf

Outrider\_Fed\_Fac\_20180101083208.pdf

Outrider\_Fed\_FL\_20180101095413.pdf

## **Section 5 - Location and Types of Water Supply**

### **Water Source Table**

**Water source use type:** INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

**Describe type:** Fresh Water; Section 13-26S-35E

**Source latitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** FEDERAL

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 330000

**Source volume (gal):** 13860000

**Water source type:** OTHER

**Source longitude:**

**Water source use type:** INTERMEDIATE/PRODUCTION CASING, STIMULATION, SURFACE CASING

**Describe type:** Fresh Water; Section 7-23S-34E

**Source latitude:**

**Source datum:**

**Water source permit type:** PRIVATE CONTRACT

**Source land ownership:** FEDERAL

**Water source transport method:** TRUCKING

**Source transportation land ownership:** FEDERAL

**Water source volume (barrels):** 330000

**Source volume (gal):** 13860000

**Water source type:** OTHER

**Source longitude:**

**Source volume (acre-feet):** 42.53472

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Water source and transportation map:**

Outrider\_Fed\_5H\_Wtr\_20180101101331.pdf

**Water source comments:** The well will be drilled using a combination of water mud systems as outlined in the Drilling Program. The water will be obtained from a 3rd party vendor and hauled to an available frac pit in the area (shared by operators) by transport truck using the existing and proposed roads depicted in the attached exhibits. No water well will be drilled on the location. Water for drilling, completion and dust control will be purchased from the following company: Rockhouse. Water for drilling, completion and dust control will be supplied by Rockhouse for sale to XTO Energy, Inc. from Section 13-26S-35E, New Mexico. In the event that Rockhouse does not have the appropriate water for XTO at time of drilling and completion, then XTO water will come from Rockhouse Water with the location of the water being in Section 7-23S-34E, New Mexico. Anticipated water usage for drilling includes an estimated 35,000 barrels of water to drill a horizontal well in a combination of fresh water and brine as detailed in the mud program in the drilling plans. These volumes are calculated for ~1.5bbls per foot of hole drilled with excess to accommodate any lost circulation or wash out that may occur. Actual water volumes used during operations will depend on the depth of the well, length of horizontal sections, and the losses that may occur during the operation. Temporary water flowlines will be permitted via ROW approval letter and proper grants as-needed based on drilling and completion schedules as needed. Well completion is expected to require approximately 300,000 barrels of water per horizontal well. Actual water volumes used during operations will depend on the depth of the well and length of horizontal sections.

**New water well?** NO

**New Water Well Info**

**Well latitude:**

**Well Longitude:**

**Well datum:**

**Well target aquifer:**

**Est. depth to top of aquifer(ft):**

**Est thickness of aquifer:**

**Aquifer comments:**

**Aquifer documentation:**

**Well depth (ft):**

**Well casing type:**

**Well casing outside diameter (in.):**

**Well casing inside diameter (in.):**

**New water well casing?**

**Used casing source:**

**Drilling method:**

**Drill material:**

**Grout material:**

**Grout depth:**

**Casing length (ft.):**

**Casing top depth (ft.):**

**Well Production type:**

**Completion Method:**

**Water well additional information:**

**State appropriation permit:**

**Additional information attachment:**

**Section 6 - Construction Materials**

**Construction Materials description:** Construction, reclamation, and/or routine maintenance will not be conducted during periods when the soil conditions for construction could lead to impacts to the surrounding environment, or when watershed damage is likely to occur as a result of these activities. Any construction material that may be required for surfacing of the drill pad and access road will be from a contractor having a permitted source of materials within the general area. No construction materials will be removed from Federal lands without prior approval from the appropriate surface management agency. All

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTFIDER FEDERAL

**Well Number:** 5H

roads will be constructed of 6" rolled and compacted caliche. Source 1: State Pit, 633-Lea, Sec 2-T24S-R33E Source 2: State Pit, 636-Lea, Sec 7-T24S-R33E

**Construction Materials source location attachment:**

## **Section 7 - Methods for Handling Waste**

**Waste type:** GARBAGE

**Waste content description:** Garbage, junk and non-flammable waste materials

**Amount of waste:** 250 pounds

**Waste disposal frequency :** Weekly

**Safe containment description:** All garbage, junk and non-flammable waste materials will be contained in a self-contained, portable dumpster or trash cage, to prevent scattering and will be removed and deposited in an approved sanitary landfill. Immediately after drilling all debris and other waste materials on and around the well location not contained in the trash cage will be cleaned up and removed from the location. No potentially adverse materials or substances will be left on the location.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** A licensed 3rd party vendor will be contracted to haul and safely dispose of garbage, junk and non-flammable waste materials.

**Waste type:** DRILLING

**Waste content description:** Fluid

**Amount of waste:** 500 barrels

**Waste disposal frequency :** One Time Only

**Safe containment description:** Steel mud pits

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

**Waste type:** DRILLING

**Waste content description:** Cuttings

**Amount of waste:** 2100 pounds

**Waste disposal frequency :** One Time Only

**Safe containment description:** The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Disposal type description:**

**Disposal location description:** R360 Environmental Solutions 4507 W Carlsbad Hwy, Hobbs, NM 88240 (575) 393-1079

**Waste type:** SEWAGE

**Waste content description:** Human Waste

**Amount of waste:** 250 gallons

**Waste disposal frequency :** Weekly

**Safe containment description:** Portable, self-contained toilets will be provided for human waste disposal. Upon completion of drilling and completion activities, or as required, the toilet holding tanks will be pumped and the contents thereof disposed of in an approved sewage disposal facility. All state and local laws and regulations pertaining to the disposal of human and solid waste will be complied with. This equipment will be properly maintained during the drilling and completion operations and will be removed when all operations are complete.

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL FACILITY **Disposal location ownership:** COMMERCIAL

**Disposal type description:**

**Disposal location description:** A licensed 3rd party contractor will be used to haul and dispose of human waste.

### Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?**

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

### Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** YES

**Description of cuttings location** Cuttings. The well will be drilled utilizing a closed-loop mud system. Drill cuttings will be held in roll-off style mud boxes and taken to a New Mexico Oil Conservation Division (NMOCD) approved disposal site. Drilling Fluids. These will be contained in steel mud pits and then taken to a NMOCD approved commercial disposal facility. Produced Fluids. Water produced from the well during completion will be held temporarily in steel tanks and then taken to a NMOCD approved commercial disposal facility. Oil produced during operations will be stored in tanks until sold.

**Cuttings area length (ft.)**

**Cuttings area width (ft.)**

**Cuttings area depth (ft.)**

**Cuttings area volume (cu. yd.)**

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

Is at least 50% of the cuttings area in cut?

WCuttings area liner

Cuttings area liner specifications and installation description

## Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: NO

Ancillary Facilities attachment:

Comments:

## Section 9 - Well Site Layout

Well Site Layout Diagram:

Outrider\_Fed\_5H\_Well\_20180101101408.pdf

Comments:

## Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name:

Multiple Well Pad Number:

Recontouring attachment:

Outrider\_Fed\_5H\_Int\_Rec\_20180101101422.pdf

**Drainage/Erosion control construction:** Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

**Drainage/Erosion control reclamation:** Erosion features are equal to or less than surrounding area and erosion control is sufficient so that water naturally infiltrates into the soil and gullying, headcutting, slumping, and deep or excessive rills (greater than 3 inches) are not observed.

<b>Well pad proposed disturbance</b> (acres): 3.69	<b>Well pad interim reclamation (acres):</b> 0.091	<b>Well pad long term disturbance</b> (acres): 3.599
<b>Road proposed disturbance (acres):</b> 0.353	<b>Road interim reclamation (acres):</b> 0	<b>Road long term disturbance (acres):</b> 0.353
<b>Powerline proposed disturbance</b> (acres): 7.35	<b>Powerline interim reclamation (acres):</b> 0	<b>Powerline long term disturbance</b> (acres): 7.35
<b>Pipeline proposed disturbance</b> (acres): 9.26	<b>Pipeline interim reclamation (acres):</b> 9.26	<b>Pipeline long term disturbance</b> (acres): 0
<b>Other proposed disturbance (acres):</b> 0	<b>Other interim reclamation (acres):</b> 0	<b>Other long term disturbance (acres):</b> 0
<b>Total proposed disturbance:</b> 20.653	<b>Total interim reclamation:</b> 9.351	<b>Total long term disturbance:</b> 11.302

Disturbance Comments:

**Operator Name:** XTO ENERGY INCORPORATED.

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Reconstruction method:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

**Topsoil redistribution:** The original stock piled topsoil will be spread over the areas being reclaimed and the original landform will be restored for all disturbed areas including well pads, production facilities, roads, pipelines, and utility corridors as close as possible to the original topography. The location will then be ripped and seeded.

**Soil treatment:** A self-sustaining, vigorous, diverse, native (or otherwise approved) plant community will be established on the site with a density sufficient to control erosion and invasion by non-native plants and to re-establish wildlife habitat or forage production. At a minimum, the established plant community will consist of species included in the seed mix and/or desirable species occurring in the surrounding natural vegetation.

**Existing Vegetation at the well pad:** a. The project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbrush, althorn, and dessert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1-3ft), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat.

**Existing Vegetation at the well pad attachment:**

**Existing Vegetation Community at the road:** a. The project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbrush, althorn, and dessert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1-3ft), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat.

**Existing Vegetation Community at the road attachment:**

**Existing Vegetation Community at the pipeline:** a. The project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbrush, althorn, and dessert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1-3ft), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat.

**Existing Vegetation Community at the pipeline attachment:**

**Existing Vegetation Community at other disturbances:** a. The project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinnery oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbrush, althorn, and dessert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1-3ft), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat.

**Existing Vegetation Community at other disturbances attachment:**

**Non native seed used?** NO

**Non native seed description:**

**Seedling transplant description:**

**Will seedlings be transplanted for this project?** NO

**Seedling transplant description attachment:**



**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**Will seed be harvested for use in site reclamation?** NO

**Seed harvest description:**

**Seed harvest description attachment:**

## **Seed Management**

### **Seed Table**

**Seed type:**

**Seed source:**

**Seed name:**

**Source name:**

**Source address:**

**Source phone:**

**Seed cultivar:**

**Seed use location:**

**PLS pounds per acre:**

**Proposed seeding season:**

### **Seed Summary**

**Total pounds/Acre:**

**Seed Type**

**Pounds/Acre**

**Seed reclamation attachment:**

## **Operator Contact/Responsible Official Contact Info**

**First Name:** Jeff

**Last Name:** Raines

**Phone:** (432)620-4349

**Email:** jeffrey\_raines@xtoenergy.com

**Seedbed prep:** Initial seedbed preparation will consist of recontouring to the appropriate interim or final reclamation standard. All compacted areas to be seeded will be ripped to a minimum depth of 18 inches with a minimum furrow spacing of 2 feet, followed by recontouring the surface and then evenly spreading the stockpiled topsoil. Prior to seeding, the seedbed will be scarified to a depth of no less than 4-6 inches. If the site is to be broadcast seeded, the surface will be left rough enough to trap seed and snow, control erosion, and increase water infiltration.

**Seed BMP:** If broadcast seeding is to be used and is delayed, final seedbed preparation will consist of contour cultivating to a depth of 4-6 inches within 24 hours prior to seeding, dozer tracking, or other imprinting in order to break the soil crust and create seed germination micro-sites.

**Seed method:** Seed Application. Seeding will be conducted no more than two weeks following completion of final seedbed preparation. A certified weed-free seed mix designed by the BLM to meet reclamation standards will be used. If the site is harrowed or dragged, seed will be covered by no more than 0.25 inch of soil.

**Existing invasive species?** NO

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** Weed control for all phases will be through the use of approved pesticides and

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

herbicides according to applicable State, Federal and local laws.

**Weed treatment plan attachment:**

**Monitoring plan description:** Monitoring of invasive and noxious weeds will be visual and as-needed. If it is determined additional methods are required to monitor invasive and noxious weeds, appropriate BLM authorities will be contacted with a plan of action for approval prior to implementation.

**Monitoring plan attachment:**

**Success standards:** 100% compliance with applicable regulations.

**Pit closure description:** There will be no reserve pit as each well will be drilled utilizing a closed loop mud system. The closed loop system will meet the NMOCD requirements 19.15.17.

**Pit closure attachment:**

## **Section 11 - Surface Ownership**

**Disturbance type:** OTHER

**Describe:** Flowline

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** TRANSMISSION LINE

**Describe:**

**Surface Owner:** BUREAU OF LAND MANAGEMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:**

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Operator Name:** XTO ENERGY INCORPORATED

**Well Name:** OUTRIDER FEDERAL

**Well Number:** 5H

## **Section 12 - Other Information**

**Right of Way needed?** NO

**Use APD as ROW?**

**ROW Type(s):**

### **ROW Applications**

**SUPO Additional Information:**

**Use a previously conducted onsite?** YES

**Previous Onsite information:** Onsite performed 12/15/2016. Location moved due to new P/L running E&W. V-door W, Topsoil E, Downsize E&S, road into NW corner. PRESET AT ON-SITE: Brooke Wilson, Bureau of Land Management Rebecca Hill, Boone Arch Surveying Jimie Scott, Contract Representative for XTO Energy, Inc John West Surveying Company

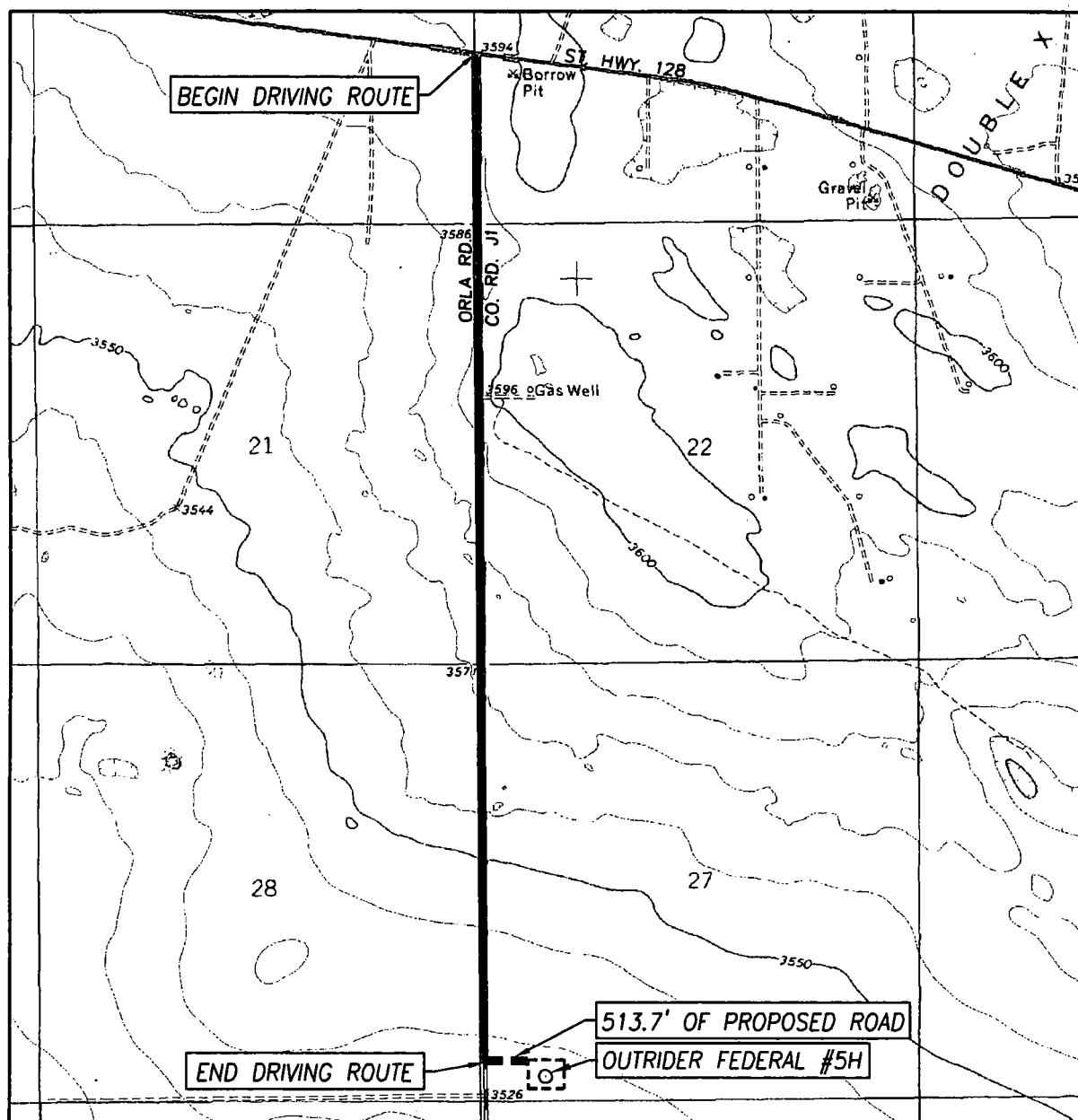
### **Other SUPO Attachment**

Outrider\_Fed\_LF\_20180101084250.pdf

Outrider\_Fed\_5H\_Arch\_20180101101509.pdf

Outrider\_Fed\_5H\_SUPO\_20180101101519.pdf

# TOPOGRAPHIC AND ACCESS ROAD MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:  
PADUCA BREAKS NW, N.M. - 10'

SEC. 27 TWP. 24-S RGE. 32-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 265' FSL & 785' FWL

ELEVATION 3528'

OPERATOR XTO ENERGY

LEASE OUTRIDER FEDERAL

U.S.G.S. TOPOGRAPHIC MAP

PADUCA BREAKS NW, N.M.

## DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF ST. HWY. 128 AND CO. RD. J1 (ORLA ROAD), GO SOUTH ON CO. RD. J1 (ORLA ROAD), APPROX. 2.3 MILES. TO PROPOSED ACCESS ROAD. FOLLOW STAKED ROAD EAST 513.7 FEET TO THE NORTHWEST CORNER OF THIS LOCATION.

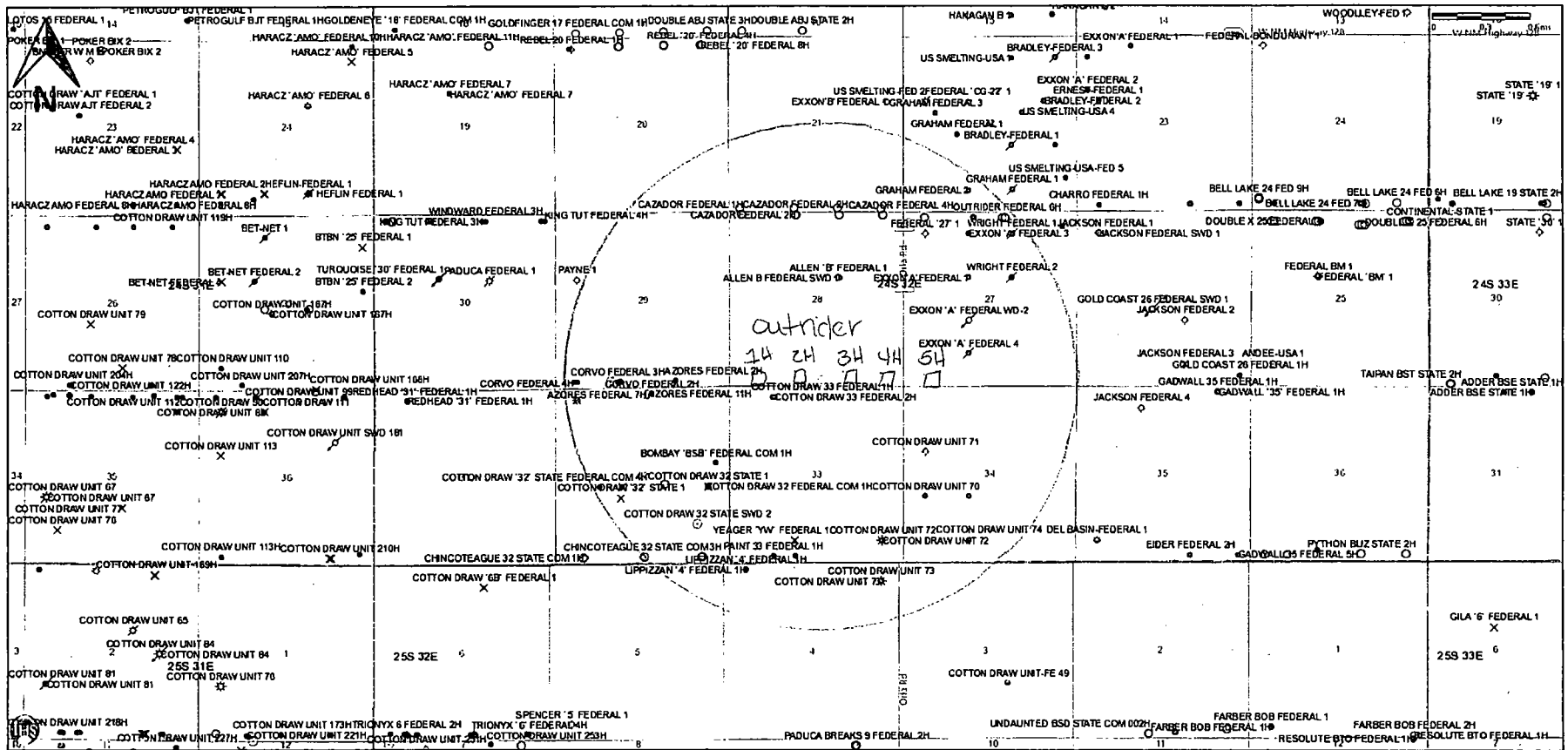


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TBPLS# 10021000

# Outrider Lease



# DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 10675.4 FEET OR 2.22 MILES IN LENGTH CROSSING USA LAND IN SECTIONS 27 & 28, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

## LINE TABLE

LINE	BEARING	DISTANCE
L1	S22°45'04"W	1935.3
L2	S00°25'47"E	2858.5
L3	N89°59'41"E	596.2
L4	S00°27'08"E	20.0
L5	N89°25'37"E	1320.1
L6	S00°33'16"W	17.8
L7	N89°25'25"E	1330.3
L8	S00°09'42"E	17.7
L9	N89°25'29"E	1154.9
L10	S00°19'39"W	14.4
L11	N89°26'51"E	1410.2



## LEGEND

⊙ DENOTES FOUND CORNER AS NOTED

## NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983 DISTANCES ARE SURFACE VALUES.

## XTO ENERGY

SURVEY FOR AN ELECTRIC LINE TO THE OUTRIDER  
FEDERAL #1H, #2H, #3H, #4H & #5H WELLS  
CROSSING SECTIONS 27 & 28,  
TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO

Survey Date: 12/21/16 CAD Date: 1/23/17 Drawn By: DSS  
W.O. No.: 16111011 Rev: Rel. W.O.: 16110705 Sheet 1 of 1

0+00 BEGIN SURVEY AT EXISTING  
TRANS. POLE  
ANCHOR 30' N.  
LAT=32.195197° N  
LONG=103.685505° W  
CL. LEASE RD.  
0+70  
2+42  
4+84  
7+26  
9+68  
12+10  
14+51  
16+93  
18+47  
19+35.3  
P.L. 231031° L.L. POLE  
30' ANCHOR N. & S.  
LAT=32.190305° N  
LONG=103.687959° W

21+95  
24+55  
25+03  
27+15  
29+75  
32+35  
34+94  
37+54  
40+16  
42+74  
45+34  
47+93.3  
P.L. 89°34'32" L.L. POLE  
30' ANCHOR N. & S.  
LAT=32.182449° N  
LONG=103.667945° W

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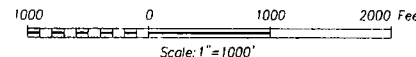
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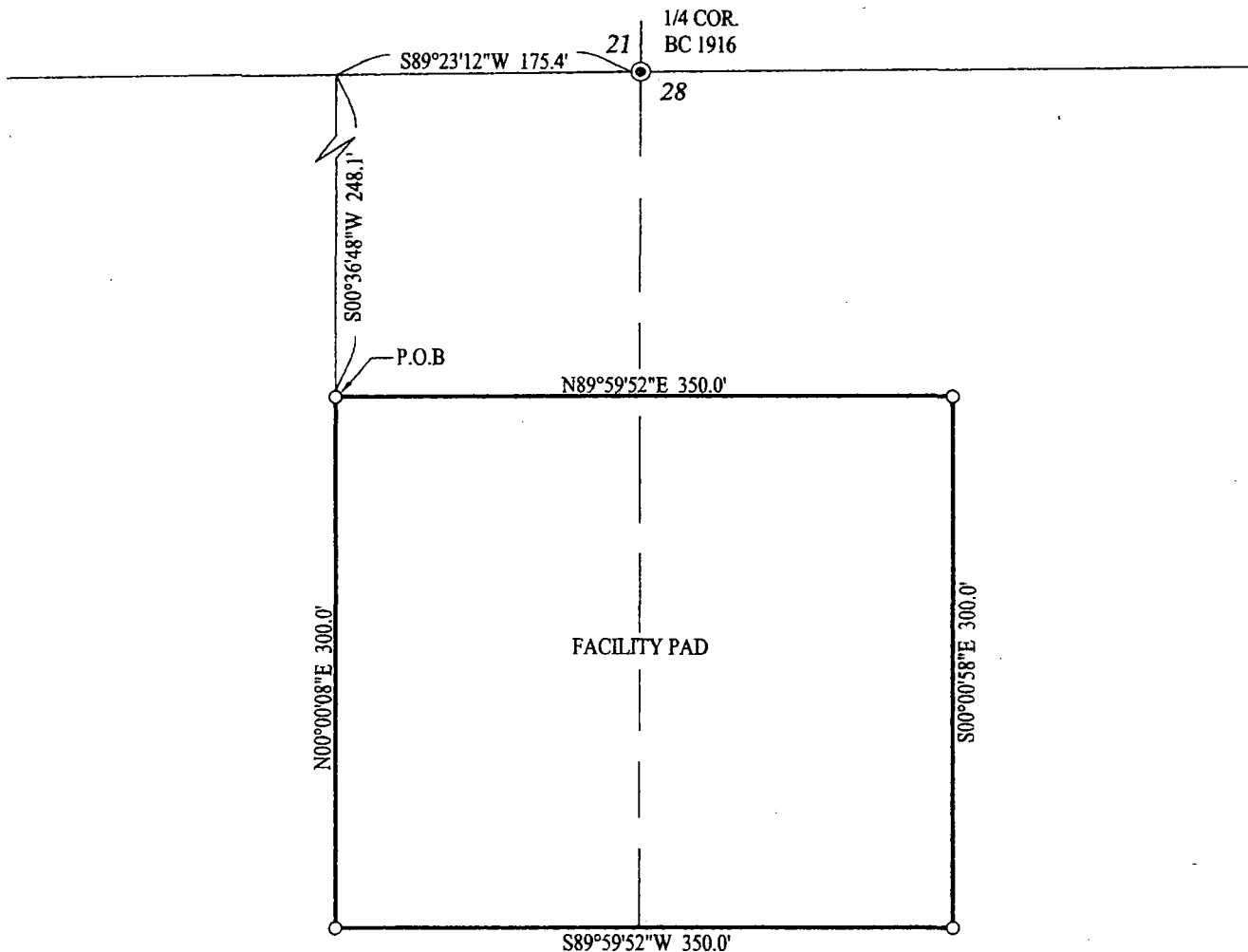
I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON DATE: 01/25/2017

© Donna S. C. 2017 XTO Energy 16111011 New Mexico Electric Line to Outrider Federal Wells #1H, #2H, #3H, #4H, #5H, 527 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000



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# **LEGEND**

○ DENOTES SET SPIKE NAIL

# **NOTE**

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON

DATE:

01/21/2015

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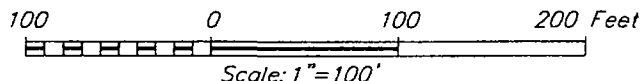


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# **DESCRIPTION:**

A PROPOSED FACILITY PAD SITUATED IN THE NORTH HALF OF SECTION 28, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE NORTHWEST CORNER OF THE FACILITY PAD WHICH LIES S89°23'12"W 175.4 FEET AND S00°36'48"E 248.1 FEET FROM THE NORTH QUARTER CORNER; THEN N89°59'52"E 350.0 FEET; THEN S00°00'08"E 300.0 FEET; THEN S89°59'52"W 350.0 FEET; THEN N00°00'08"E 300.0 FEET TO THE POINT OF BEGINNING AND CONTAINING 2.410 ACRES MORE OR LESS.



**XTO ENERGY**

**SURVEY FOR A FACILITY PAD  
SITUATED IN THE NW/4 OF SECTION 28,  
TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.  
LEA COUNTY, NEW MEXICO**

Survey Date: 12/10/14

CAD Date: 1/20/15

Drawn By: LSL

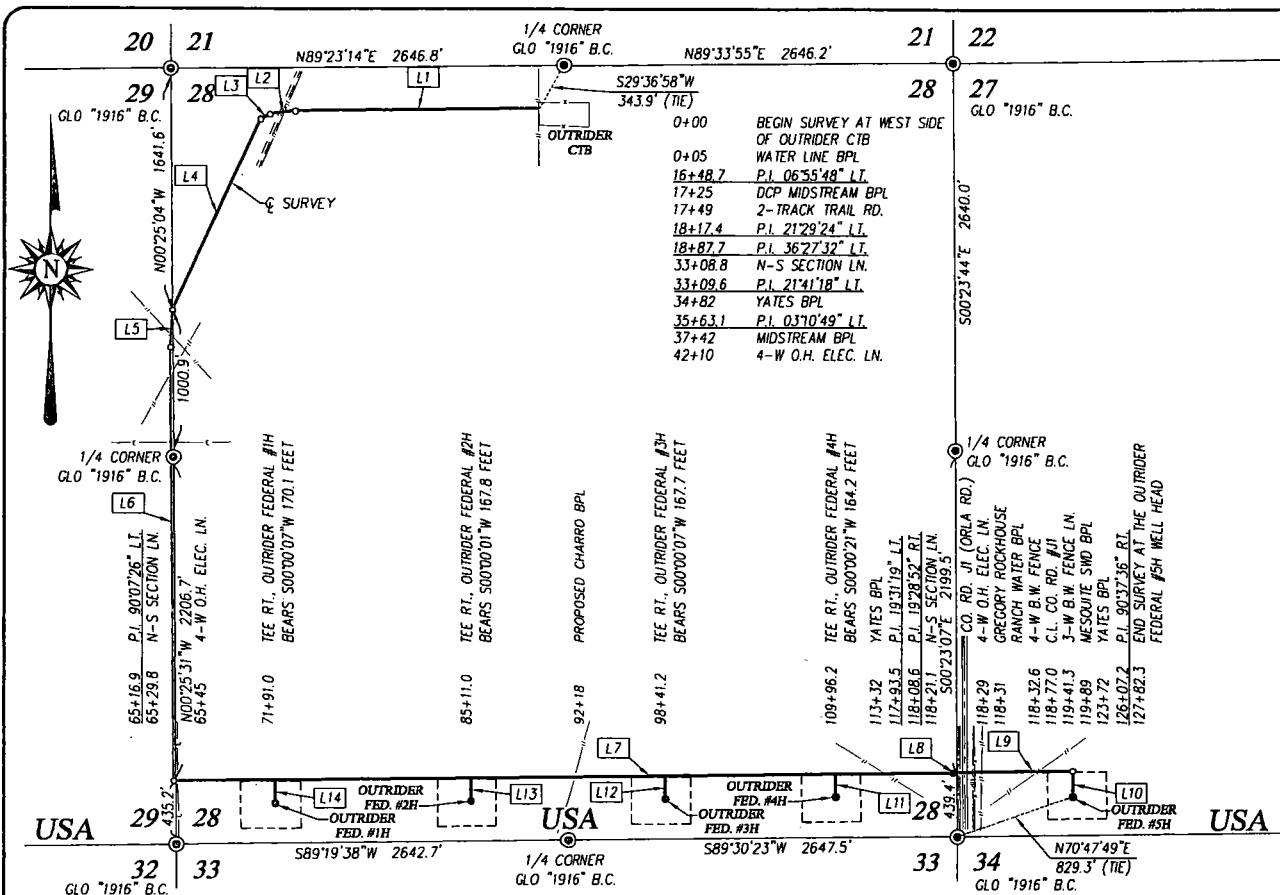
W.O. No.: 14111306

Rev:

Rel. W.O.:

Sheet 1 of 1





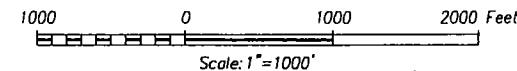
### DESCRIPTION

SURVEY OF A STRIP OF LAND 30.0 FEET WIDE AND 13452.1 FEET OR 2.548 MILES IN LENGTH CROSSING USA LAND IN SECTIONS 27, 28 & 29, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M., LEA COUNTY, NEW MEXICO, AND BEING 15.0 FEET LEFT AND 15.0 FEET RIGHT OF THE ABOVE PLATTED CENTERLINE SURVEY.

LINE	BEARING	DISTANCE
L1	S89°17'50"W	1648.7'
L2	S82°22'02"W	168.7'
L3	S60°52'38"W	70.3'
L4	S24°25'06"W	1421.9'
L5	S02°43'48"W	253.5'
L6	S00°27'01"E	2953.8'
L7	N89°25'35"E	5276.6'
L8	N69°54'07"E	15.0'
L9	N89°23'01"E	798.7'
L10	S00°00'37"W	175.1'
L11	S00°00'21"W	164.2'
L12	S00°00'07"W	167.7'
L13	S00°00'01"W	167.8'
L14	S00°00'07"W	170.1'

### LEGEND

⊙ DENOTES FOUND CORNER AS NOTED



## XTO ENERGY

**SURVEY FOR A BURIED PIPELINE TO THE OUTRIDER FEDERAL #1H THROUGH #5H WELL CROSSING SECTIONS 27, 28 & 29, TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M. LEA COUNTY, NEW MEXICO**

Survey Date: 9/22/16 CAD Date: 10/6/16 Drawn By: ACK  
W.O. No.: 16110711 Rev.: Rel. W.O.: Sheet 1 of 1

I, RONALD J. EIDSON, NEW MEXICO PROFESSIONAL SURVEYOR No. 3239, DO HEREBY CERTIFY THAT THIS SURVEY PLAT AND THE ACTUAL SURVEY ON THE GROUND UPON WHICH IT IS BASED, WERE PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION; THAT I AM RESPONSIBLE FOR THIS SURVEY; THAT THIS SURVEY MEETS THE MINIMUM STANDARDS FOR SURVEYING IN NEW MEXICO; AND THAT IT IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

RONALD J. EIDSON *Ronald J. Eidson*  
DATE: 10/07/2016

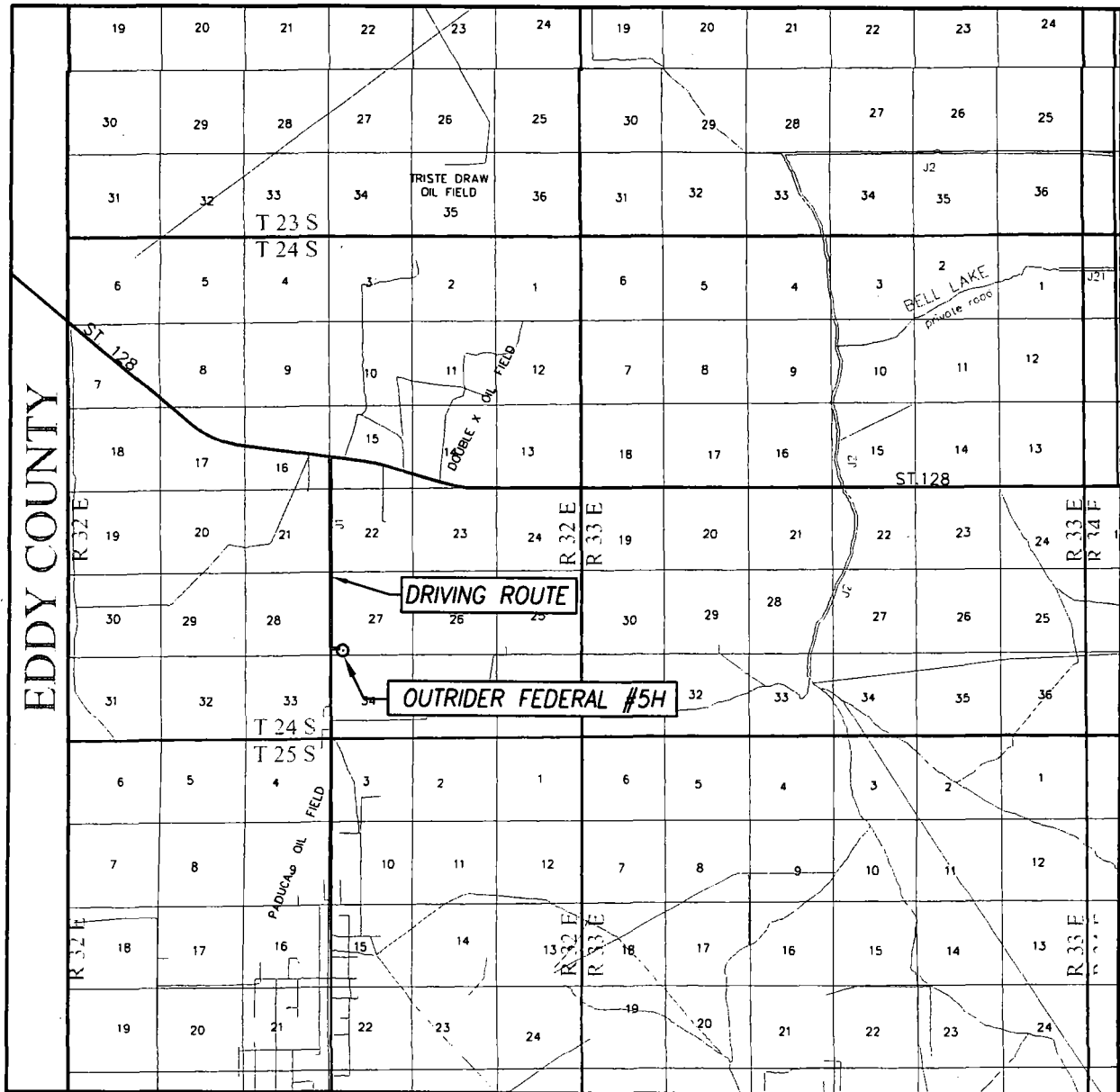
### NOTE

BEARINGS SHOWN HEREON ARE MERCATOR GRID AND CONFORM TO THE NEW MEXICO COORDINATE SYSTEM "NEW MEXICO EAST ZONE" NORTH AMERICAN DATUM 1983. DISTANCES ARE SURFACE VALUES.



PROVIDING SURVEYING SERVICES  
SINCE 1946  
**JOHN WEST SURVEYING COMPANY**  
412 N. DAL PASO HOBBS, N.M. 88240  
(575) 393-3117 www.jwsc.biz  
TBPLS# 10021000

# VICINITY MAP



SCALE: 1" = 2 MILES

DRIVING ROUTE: SEE TOPOGRAPHICAL AND ACCESS ROAD MAP

SEC. 27 TWP. 24-S RGE. 32-E

SURVEY N.M.P.M.

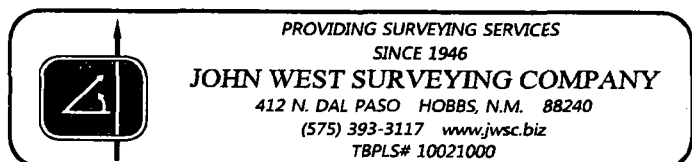
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 265' FSL & 785' FWL

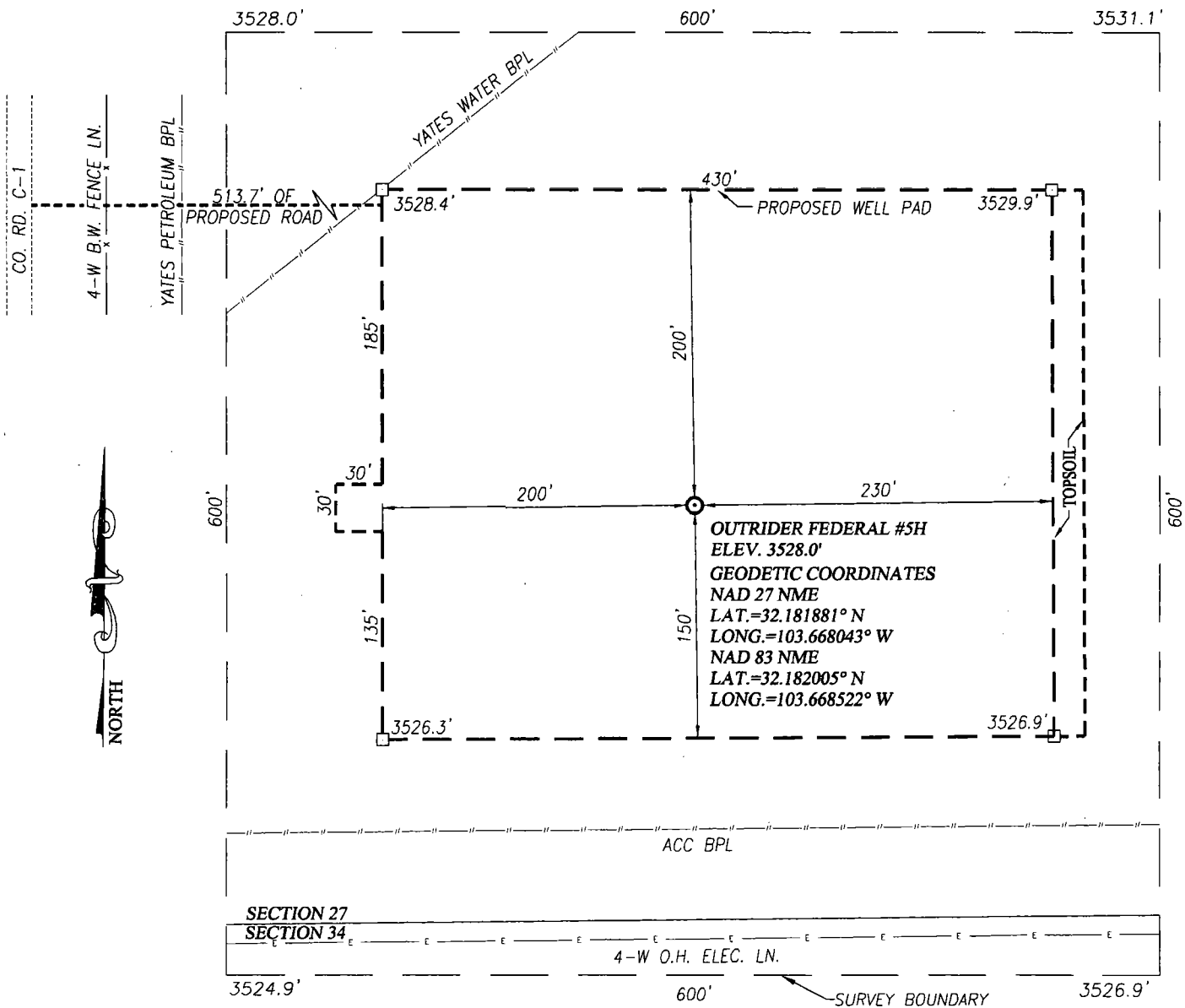
ELEVATION 3528'

OPERATOR XTO ENERGY

LEASE OUTRIDER FEDERAL



# WELL SITE PLAN

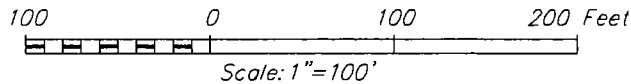


NOTE:

1) SEE "LOCATION VERIFICATION MAP"  
FOR PROPOSED ROAD LOCATION.

DIRECTIONS TO LOCATION:

FROM THE INTERSECTION OF ST. HWY. 128 AND CO. RD. J1 (ORLA ROAD), GO SOUTH ON CO. RD. J1 (ORLA ROAD), APPROX. 2.3 MILES. TO PROPOSED ACCESS ROAD. FOLLOW STAKED ROAD EAST 513.7 FEET TO THE NORTHWEST CORNER OF THIS LOCATION.



# XTO ENERGY

OUTRIDER FEDERAL #5H WELL  
LOCATED 265 FEET FROM THE SOUTH LINE  
AND 785 FEET FROM THE WEST LINE OF SECTION 27,  
TOWNSHIP 24 SOUTH, RANGE 32 EAST, N.M.P.M.,  
LEA COUNTY, NEW MEXICO

Drawn By: ACK

Sheet 1 of 1

© Anjelica\2016\XTO ENERGY\Wells\16110998 Revise Well Plat for Outrider Federal #5H



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SINCE 1946**

**JOHN WEST SURVEYING COMPANY**

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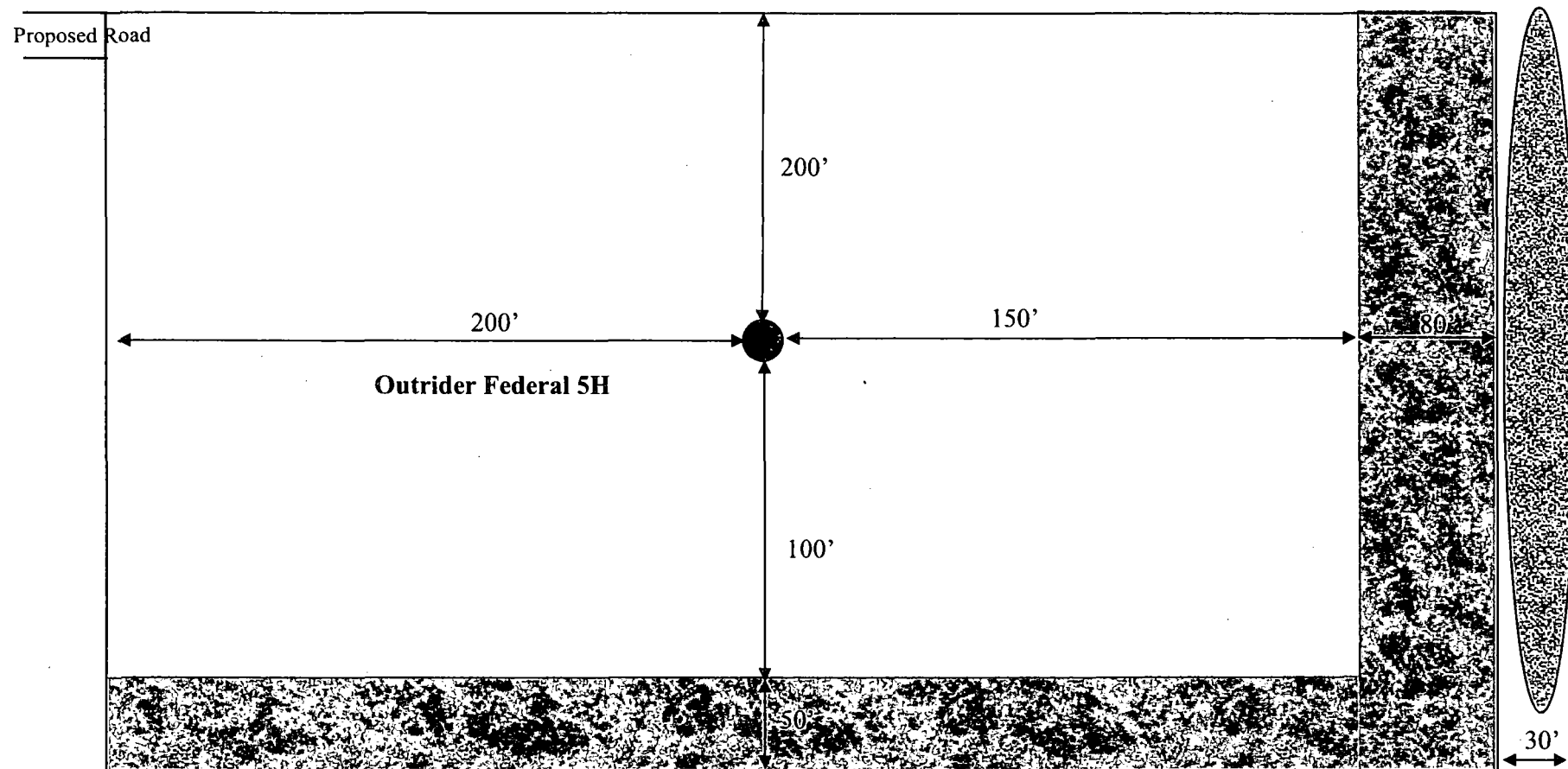
(575) 393-3117 [www.jwsc.biz](http://www.jwsc.biz)

TBPLS# 10021000

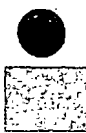
# Interim Reclamation Diagram

Outrider Federal 5H

V-Door West



## LEGEND



Wellbore

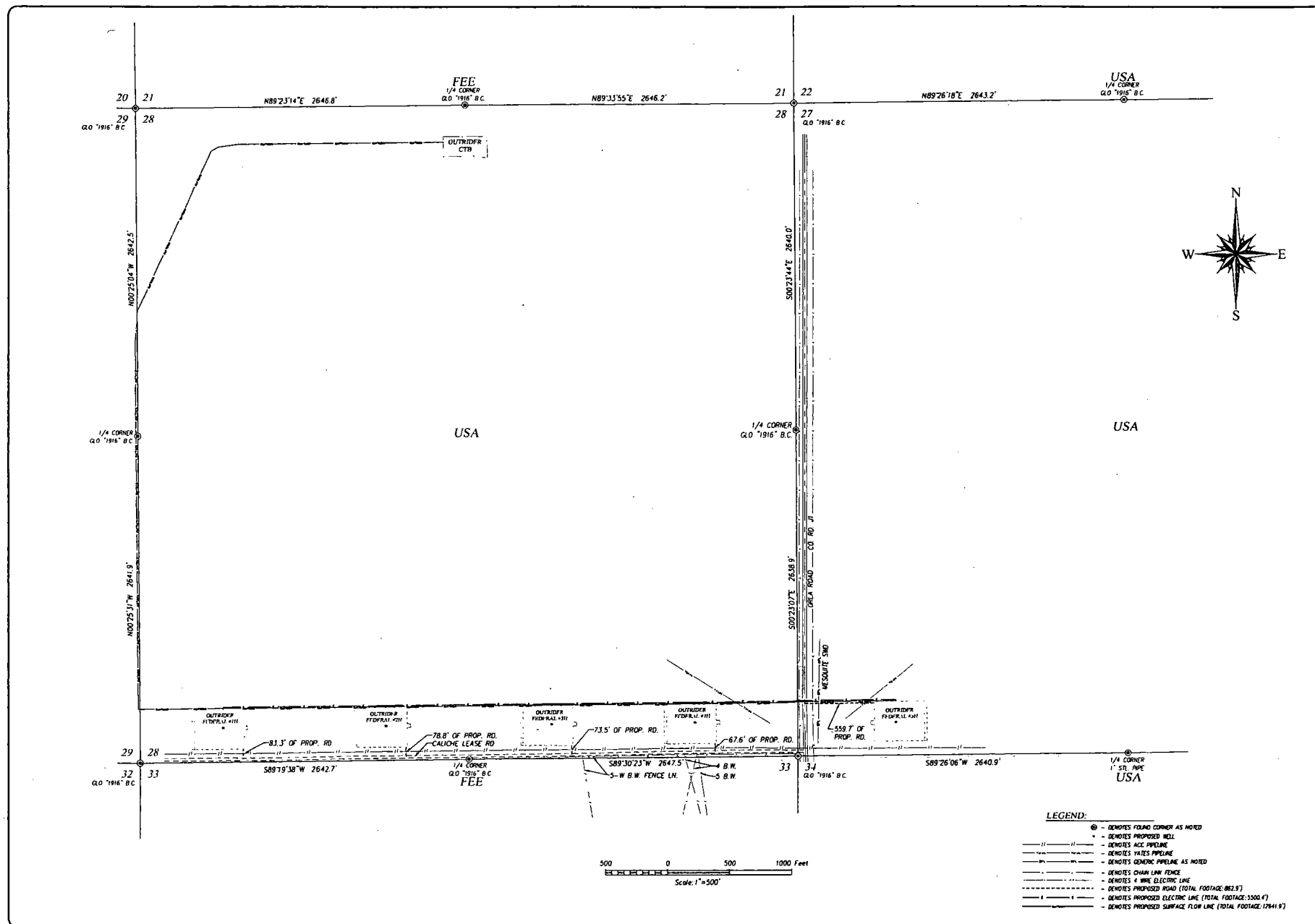
Interim Reclamation



Ditch & Berm




Topsoil



Survey Date: 9/22/16  
 CAD Drafter & Date: ACK 9/29/16  
 Work Order No.: 16.11.0706 & 16.11.0780  
 Revised Date: 10/4/16  
 Anjelico\2016\XTO ENERGY\Lease Flow Maps\16130780 Update Lease Flow Map for Outrider Federal #1H-#5H Wells in Secs 21,27,28, T24S, R32E  
 Scale: One Inch = One Hundred Feet JWSC File No. D-

**XTO ENERGY**  
 LEASE FLOW DIAGRAM FOR THE OUTRIDER FEDERAL #1H THROUGH #5H  
 WELLS LOCATED IN SECTIONS 27 & 28, TOWNSHIP 24 SOUTH, RANGE 32 EAST,  
 N.M.P.M., LEA COUNTY, NEW MEXICO

  
 PROVIDING SURVEYING SERVICES  
 SINCE 1946  
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 HOBBS, NEW MEXICO 88240  
 (575) 393-3117 www.jwsc.biz  
 TBPLS# 10021000

NMCRIS No.: 137298

## NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

<b>1. NMCRIS Activity No.:</b>  137298	<b>2a. Lead Agency:</b> US Bureau of Land Management Carlsbad Field Office	<b>2b. Other Agency(ies):</b>	<b>3. Lead Agency Report No.:</b>
<b>4. Title of Report:</b> A Class III Archaeological Survey for the XTO Energy Proposed Outrider Federal #5H Well Pad, Access Road, Flowline and Electric Line, Lea County, New Mexico  <b>Author(s)</b> Galassini, Stacy K. and Joshua W. Broxson			<b>5. Type of Report</b> <input checked="" type="checkbox"/> Negative  <input type="checkbox"/> Positive
<b>6. Investigation Type</b> <input type="checkbox"/> Research Design <input checked="" type="checkbox"/> Archaeological Survey/Inventory <input type="checkbox"/> Architectural Survey/Inventory <input type="checkbox"/> Test Excavation <input type="checkbox"/> Excavation <input type="checkbox"/> Collections/Non-Field Study <input type="checkbox"/> Compliance Decision Based on Previous Inventory <input type="checkbox"/> Overview/Lit Review <input type="checkbox"/> Monitoring <input type="checkbox"/> Ethnographic Study <input type="checkbox"/> Site/Property Specific Visit <input type="checkbox"/> Historic Structures Report <input type="checkbox"/> Other			
<b>7. Description of Undertaking (what does the project entail?):</b> XTO Energy proposes to construct the Outrider Federal #5H Well Pad, Access Road, Flowline and Electric Line in Lea County, NM, on federal lands in Sections 27, 28, and 29 of T24S R32E. The proposed well pad will measure 400 ft. x 320 ft. Segments of access road, electric line, and surface flowline will share a right-of-way 13,452.1 ft. in length. A 4,791.28 ft. long segment of electric line branches off of this right-of-way. Both linear segments will occupy a permanent 30 ft. right-of-way with 20 ft. of temporary workspace assumed. The project will total 23.88 acres. Per a pre-field consultation with BLM/CFO archaeologist B. Boeke conducted on December 27, 2016, a 600 ft. x 600 ft. block survey was conducted over the well pad. Those portions of the flowline right-of-way running north/south along the Section 28/29 border were only surveyed using two transects (100ft.) on the east side of the centerline per the instructions from the BLM/CFO. The survey extended south onto federal lands in Section 34 T24S R32E. The total Area of Potential Effect (APE) measures 54.14 acres.			
[       ] Continuation			
<b>8. Dates of Investigation:</b> from: 28-Dec-2016       to: 29-Dec-2016		<b>9. Report Date:</b> 29-Dec-2016	
<b>10. Performing Agency/Consultant:</b> Boone Archaeological Resource Consultants, LLC. <b>Principal Investigator:</b> Stacy K. Galassini <b>Field Supervisor:</b> Christopher L. Mickwee  <b>Field Personnel Names:</b> Christopher L. Mickwee  <b>Historian / Other:</b>			
<b>11. Performing Agency/Consultant Report No.:</b> BARC 12-16-39			
<b>12. Applicable Cultural Resource Permit No(s):</b> BLM Permit No.: 190-2920-16-V			

NMCRIS No.: 137298

**13. Client/Customer (project proponent):**

XTO Energy

**Contact:** Stephanie Rabadue

**Address:** 500 W. Illinois, Suite 500, Midland, TX 79701

**Phone:** 432-620-6714

**14. Client/Customer Project No.:**

**15. Land Ownership Status (must be indicated on project map):**

**Land Owner (By Agency)**

**Acres Surveyed Acres in APE**

US Bureau of Land Management Carlsbad Field Office	54.14	54.14
<b>TOTALS</b>	54.14	54.14

**16. Records Search(es):**

Date(s) of HPD/ARMS File Review: 27 Dec 2016	Name of Reviewer(s): C. Mickwee	
Date(s) of Other Agency File Review: 27 Dec 2016	Name of Reviewer(s): C. Mickwee	Agency: BLM/CFO

**17. Survey Data:**

**a. Source Graphics** [ ] NAD 27 [ x ] NAD 83 **Note:** NAD 83 is the NMCRIS standard.

☒ USGS 7.5' (1:24,000) topo map ☐ Other topo map, Scale:

☒ GPS Unit Accuracy ☒ <1.0m ☐ 1-10m ☐ 10-100m ☐ >100m

☐ Aerial Photo(s)

Other Source Graphic(s):

**b. USGS 7.5' Topographic Map Name**

**USGS Quad Code**

Paduca Breaks NW, NM	32103-B6
----------------------	----------

**c. County(ies):** LEA

**d. Nearest City or Town:** Jal, NM

**e. Legal Description:**

**Township (N/S)**

**Range (E/W)**

**Sections**

24S	32E	27, 28, 29, 34
-----	-----	----------------

**Projected legal description?** [ ] Yes [ x ] No [ ] Unplatted

**f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):**

265 ft. FSL and 785 ft. FWL

[ ] Continuation

**18. Survey Field Methods:**

**Intensity:** ☒ 100% coverage ☐ <100% coverage

NMCRIS No.: 137298

Configuration: ☒ block survey units ☒ linear survey units (l x w): 12,176.42 ft. x 150 ft.; 1,716.35 ft. x 100 ft.  
☐ other survey units (specify):

Scope: ☒ non-selective (all sites/properties recorded) ☐ selective/thematic (selected sites/properties recorded)

Coverage Method: ☒ systematic pedestrian coverage

☐ other method (describe):

Survey Interval (m): 15 Crew Size: 1 Fieldwork Dates: from: 28-Dec-2016 to: 29-Dec-2016

Survey Person Hours: 7.00 Recording Person Hours: 0.00 Total Hours: 7.00

**Additional Narrative:**

The well pad was surveyed using 50 ft. parallel transects across an 8.26 acre block. Those portions of the project which fell outside of the well pad block survey were surveyed using two or three 50 ft. parallel transects. The survey area totals 54.14 acres. There are no previously recorded archaeological sites within 1 mile of the project area.

[ ] Continuation

**19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):**

According to the Natural Resources Conservation Service' online database, the project area soils consist of Pyote soils. These soils are associated with the Loamy Sand ecological site (R024CX003NM) which typically supports black grama, dropseed, and bluestem grasslands with an even distribution of sand sage, shinners oak, and mesquite. The current vegetative community consists of mesquite, broom snakeweed, soapweed yucca, four-wing saltbush, althorn, and desert grasses and forbs. The project is located on a relatively flat landscape with small dunes (1 ft. – 3 ft.), approximately 7.75 miles north of Paduca Breaks and 12.45 miles west of Woodley Flat. The elevation ranges from 3,510 ft. to 3,520 ft. above mean sea level.

[ ] Continuation

**20.a. Percent Ground Visibility:**

**b. Condition of Survey Area (grazed, bladed, undistributed, etc.):**

The survey area has been disturbed by a buried pipeline, lease road, fencing, Orla Rd., well pads, electric lines, flowlines, erosion, burrowing, and cattle grazing.

[ ] Continuation

**21. CULTURAL RESOURCE FINDINGS**

☐ Yes, see next report section

☒ No, discuss why:

Six isolated occurrences were noted and recorded during the survey. Isolated occurrences are not eligible for the National Register of Historic Places and no treatment is recommended. For detailed descriptions, see Table 1.

[ ] Continuation

**22. Attachments (check all appropriate boxes):**

[ x ] USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn (required)

[ x ] Copy of NMCRIS Map Check (required)

[ ] LA Site Forms - new sites (with sketch map & topographic map) if applicable

[ ] LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)

[ ] Historic Cultural Property Inventory Forms, if applicable

[ ] List and Description of Isolates, if applicable

[ ] List and Description of Collections, if applicable

**23. Other Attachments:**

[ ] Photographs and Log

[ x ] Other Attachments  
(Describe): BLM Map, Plat Maps,  
Pre-field Form



NMCRIS No.: 137298

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Qualified Supervisor: Printed Name: Stacy K. Galassini

Signature: Stacy K. Galassini Date: 1/13/17 Title: Principal Investigator

25. Reviewing Agency

Reviewer's Name/Date:

Accepted [ ]

Rejected [ ]

26. SHPO

Reviewer's Name/Date:

HPD Log #:

Date sent to ARMS:

### CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

#### SURVEY RESULTS:

Archaeological Sites discovered and registered: 0

Archaeological Sites discovered and NOT registered: 0

Previously recorded archaeological sites revisited (site update form required): 0

Previously recorded archaeological sites not relocated (site update form required): 0

TOTAL ARCHAEOLOGICAL SITES (visited & recorded): 0

Total isolates recorded: 6

☒ Non-selective isolate recording?

HCPI properties discovered and registered: 0

HCPI properties discovered and NOT registered: 0

Previously recorded HCPI properties revisited: 0

Previously recorded HCPI properties not relocated: 0

TOTAL HCPI PROPERTIES (visited & recorded, including acequias): 0

#### MANAGEMENT SUMMARY:

Six isolated occurrence were noted and recorded during the survey. Isolated occurrences are not eligible for the National Register of Historic Places and no treatment is recommended. The proposed project is recommended for approval as staked. If additional cultural materials are encountered during construction, work should be halted and archaeologists with the BLM/CFO should be notified immediately.

[ ] Continuation

IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.

#### SURVEY LA/HCPI NUMBER LOG

Sites/Properties Discovered:

LA/HCPI No. Field/Agency No.

Eligible? (Y/N/U, applicable criteria)

NMCRIS No.: 137298

Previously recorded revisited sites/HCPI properties:

LA/HCPI No. Field/Agency No.

Eligible? (Y/N/U, applicable criteria)

**MONITORING LA NUMBER LOG (site form required)**

Sites Discovered (site form required):

Previously recorded sites (site update form required):

LA No. Field/Agency No.

LA No. Field/Agency No.

Areas outside known nearby site boundaries monitored? ☐ Yes

☐ No, Explain why:

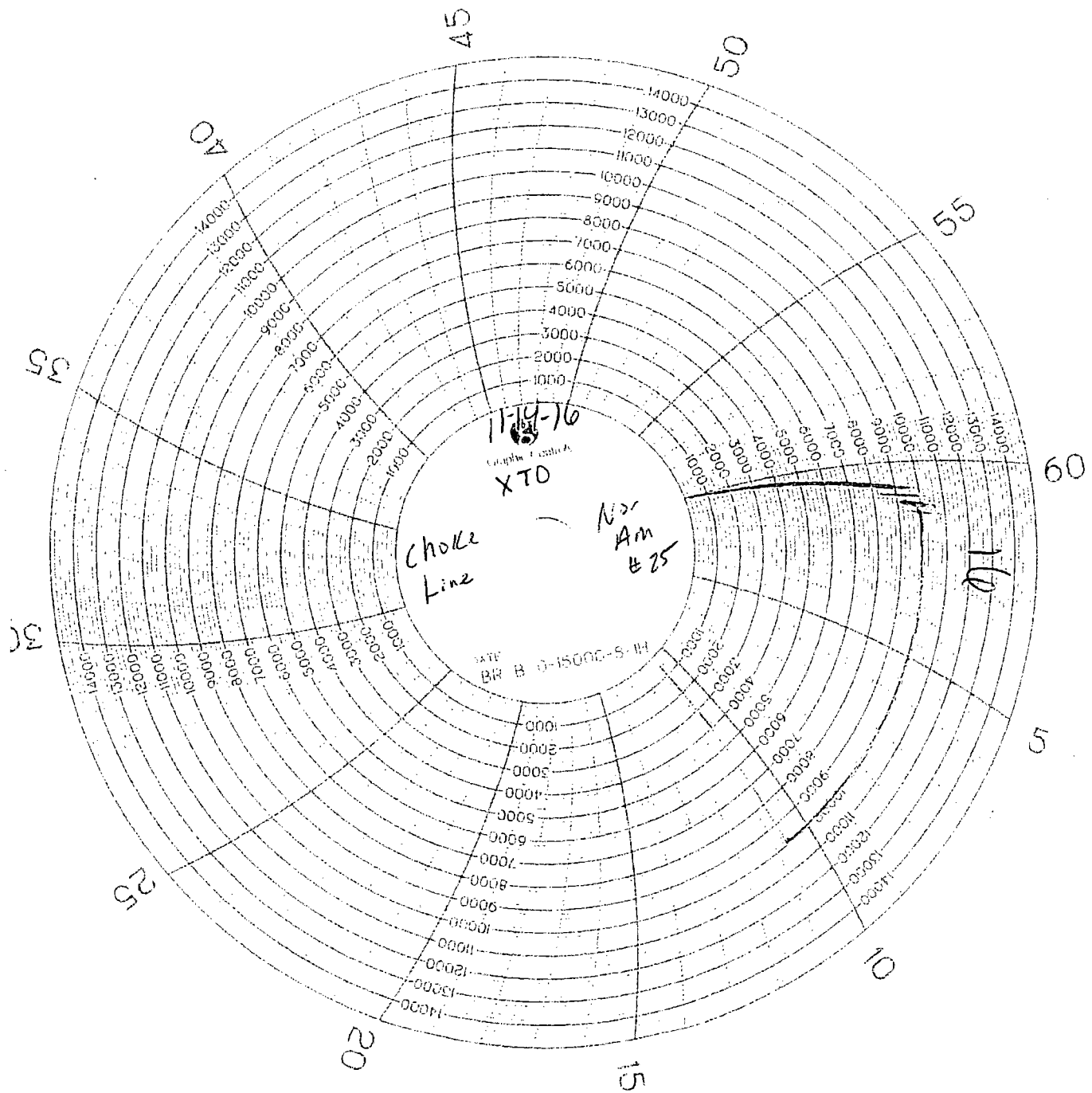
**TESTING & EXCAVATION LA NUMBER LOG (site form required)**

Tested LA number(s)

Excavated LA number(s)

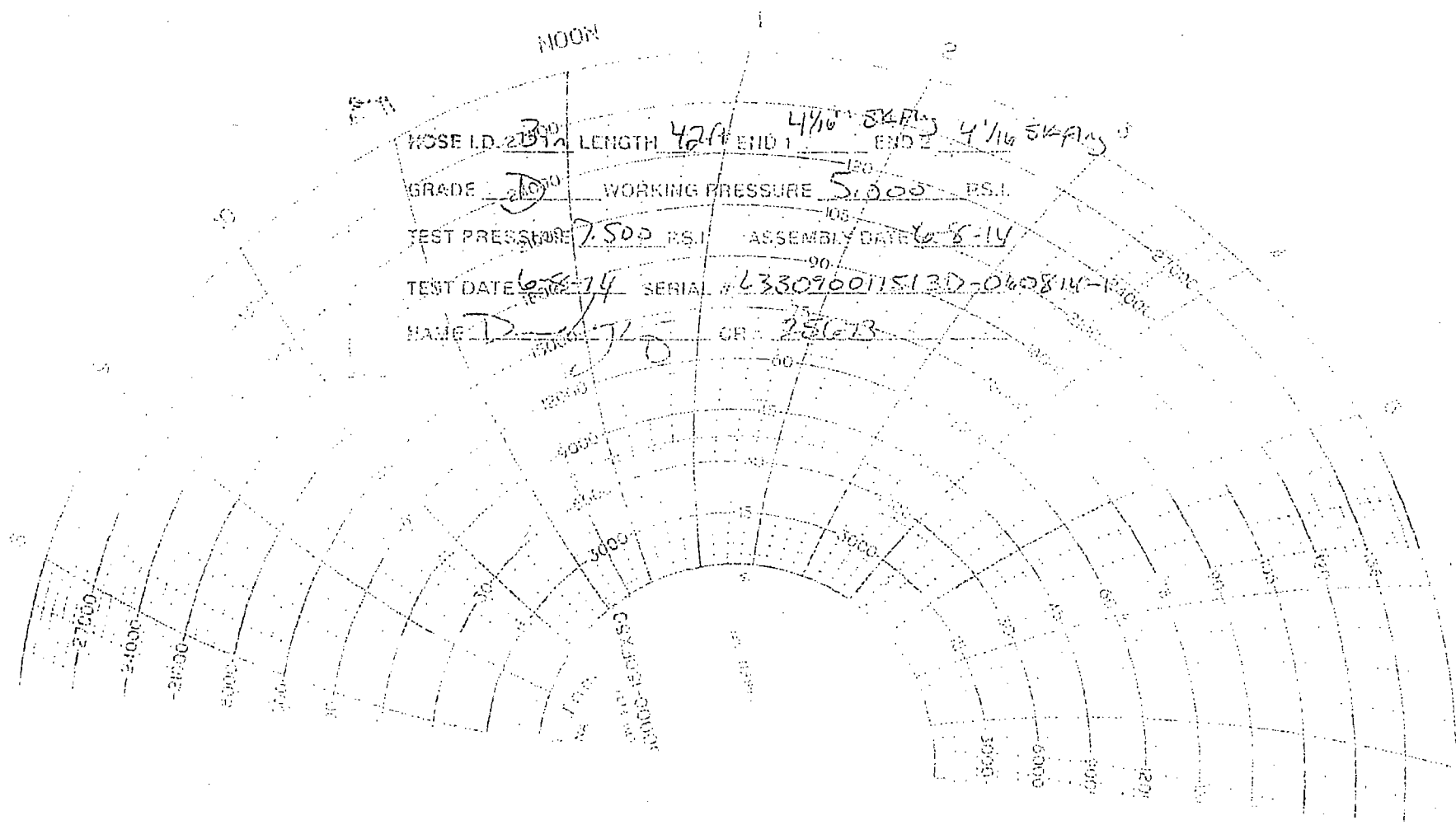
**Table 1. Isolated Occurrences.**

IO No.	Description	Easting	Northing
IO 01	Barbed wire	623763	3562492
IO 02	Two handed mano with two grinding surfaces, gray sandstone, 8 cm x 15 cm	623706	3562456
IO 03	Angular debris, gray chert	623665	3561860
IO 04	Core-reduction flake, white chert with platform and bulb, 1 cm x 2 cm	623968	3561418
IO 05	Core-reduction flake, brown quartzite with platform and bulb, 2 cm x 3 cm	624669	3561442
IO 06	Metal strap	624947	3561417

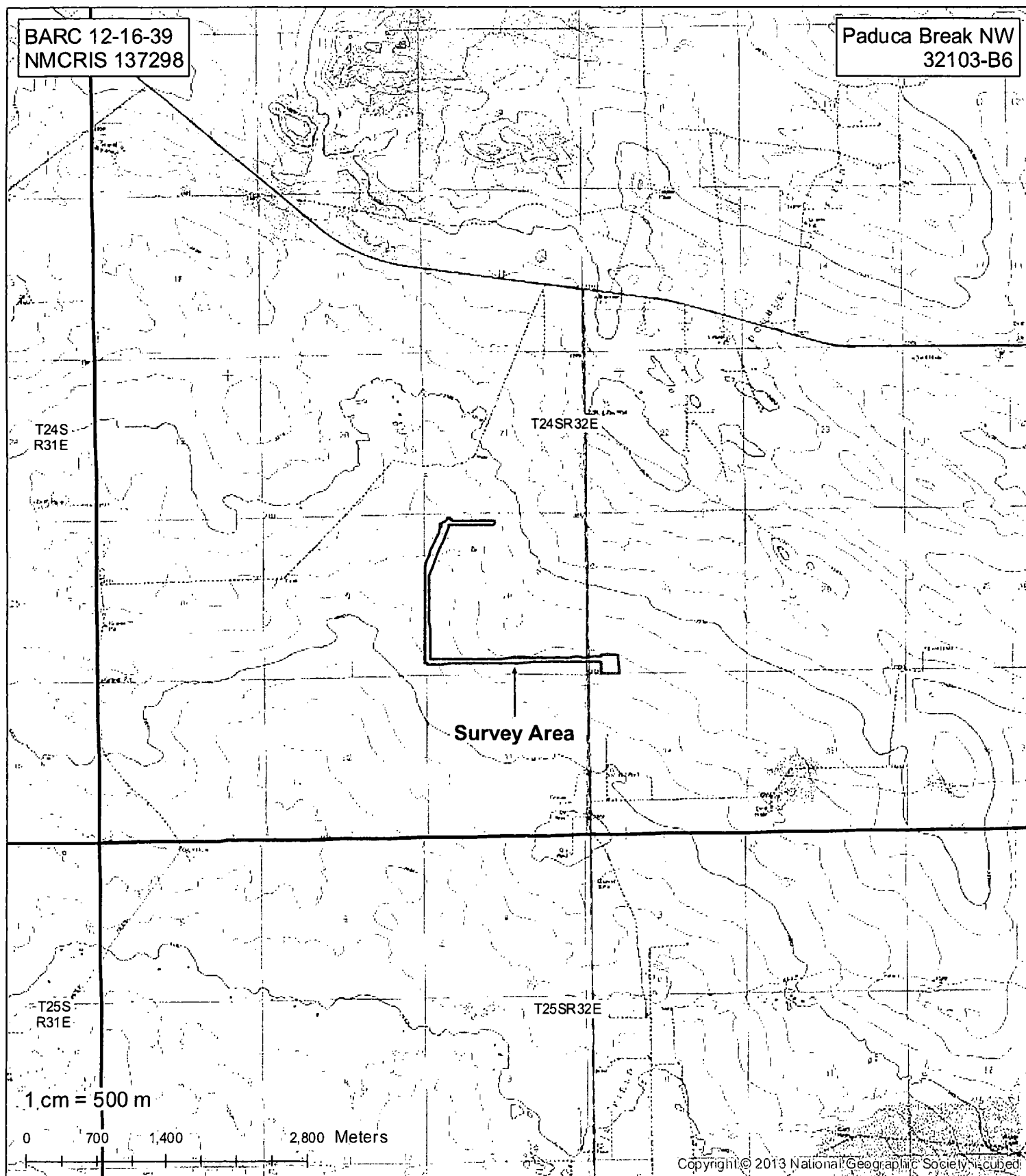


NOON

HOSE I.D. 2 1/2 LENGTH 42A END 1 4 1/16 SK PL END 2 4 1/16 SK PL  
GRADE D WORKING PRESSURE 5,000 P.S.I.  
TEST PRESSURE 7,500 P.S.I. ASSEMBLY DATE 6-8-14  
TEST DATE 6-8-14 SERIAL # 633090011513D-060814-R  
NAME D-1715 OR 28613

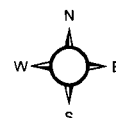


**A Class III Archaeological Survey for the XTO Energy Proposed Outrider  
Federal #5H Well Pad, Access Road, Flowline and Electric Line, Lea County, New Mexico**



**Figure 1. Project Area**

Survey Area   
 BLM   
 Private   
 NM State Trust Land



A Class III Archaeological Survey for the XTO Energy Proposed Outrider  
Federal #5H Well Pad, Access Road, Flowline and Electric Line, Lea County, New Mexico

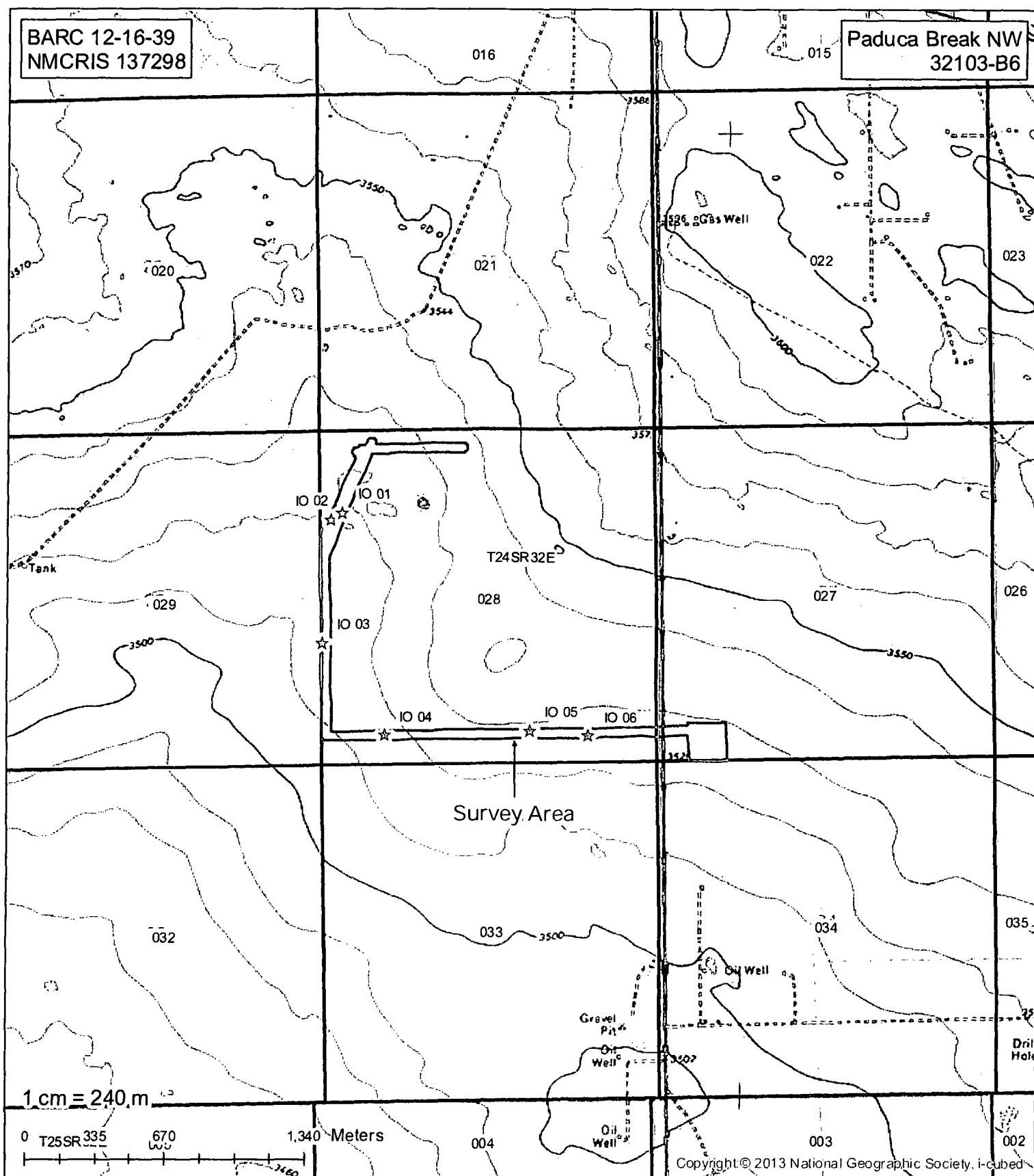
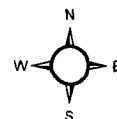


Figure 2. Current & Previous Survey Results

Survey Area
 ☆ Isolated Occurrence
BLM
Private
NM State Trust Land



# A Class III Archaeological Survey for the XTO Energy Proposed Outrider Federal #5H Well Pad, Access Road, Flowline and Electric Line, Lea County, New Mexico

BARC 12-16-39  
NMCRIS 137298

Paduca Break NW  
32103-B6

020

021

022

IO 01  
IO 02

T24SR32E

028

027

029

IO 03

Survey Area

IO 05

IO 06

IO 04

034

033

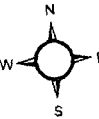
01 cm = 101 m

560 Meters

Source: ESRI, DigitalGlobe, GeoEye, IGN, IGP, swisslps, and the GIS User Community

Figure 3. Isolated Occurrences

- Survey Area
- Flowline
- Electric Line
- Archaeological Site
- Private
- Well Pad
- Access Road
- BLM
- NM State Trust Land
- Isolated Occurrence



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## FIELDWORK AUTHORIZATION REQUEST

To Conduct Specific Cultural Resource Work Under the Authority of a Cultural Resource Use Permit Issued by the Bureau of Land Management  
Pursuant to Sec. 302(b) of P.L. 94-579, October 21, 1976, 43 U.S.C. 1732 and Sec. 4 of P.L. 96-95, October 31, 1979, 16 U.S.C. 470cc

1. Name of Permittee and Company Stacy K. Galassini - Boone Archaeological Resource Consultants, LLC	
2. Date Permit Issued 7-27-16	
3. Contact Telephone Number 575-885-1352	
4. Project Name and Client Name XTO Outrider Fed #5H Well Pad, Surface Pipeline, Electric Line (BARC 12-16-39) Client Contact: Stephanie Rabadue	
5. Location of Work or Legal Description (Include map) a. Description of Public Lands Involved T24S R32E S27,28 BLM-CFO Lea County, NM	
6. Nature of Cultural Resource Work (Survey, APE, etc.) a. Identification of Previous Surveys and Sites (if applicable)  SURVEY ALL; ONLY E 1/2 OF N/S SEC OF SURFACE P/L	
7. Name of Individual(s) Responsible for Planning & Supervising Field Work, & Approving Reports, Evaluations, & Recommendations Stacy K. Galassini	
8. Signature of Individual Conducting Pre-Field Consultation	9. Date

The individual named in item 7 above shall be present during the conduct of field work authorized herein, or shall notify the authorized officer of the need for any extended absence, and shall make provision that the work will be carried out under supervision of equal quality, by an individual approved by the authorized officer.

All terms and conditions of the permit continue to apply; any special conditions attached hereto have the same force and effect as conditions of the permit.

Permittee shall immediately notify the authorized officer of any change in items 3 through 7 above.

Fieldwork Authorization Request approved by:

*Stacy K. Galassini*

(Signature of BLM Authorized Officer)

Date:

12-27-16





U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Drilling Plan Data Report

05/16/2018

APD ID: 10400025937

Submission Date: 01/01/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - Geologic Formations

Formation ID	Formation Name	Elevation	True Vertical Depth	Measured Depth	Lithologies	Mineral Resources	Producing Formation
1	---	3528	0	0	ALLUVIUM, OTHER : Quaternary	NONE	No
2	RUSTLER	2703	823	823	SANDSTONE	USEABLE WATER	No
3	TOP SALT	2398	1128	1128	SALT	NONE	No
4	BASE OF SALT	-940	4466	4466	SALT	NONE	No
5	DELAWARE	-1167	4693	4693	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	No
6	BRUSHY CANYON	-3622	7148	7148	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	No
7	BONE SPRING 1ST	-6154	9680	9680	SANDSTONE	NATURAL GAS, POTASH, OTHER : Produced Water	No
8	BONE SPRING 2ND	-6770	10296	10296	SANDSTONE	NATURAL GAS, OIL, OTHER : Produced Water	Yes

### Section 2 - Blowout Prevention

Pressure Rating (PSI): 3M

Rating Depth: 10801

**Equipment:** The blow out preventer equipment (BOP) for this well consists of a 13-5/8" minimum 3M Hydril and a 13-5/8" minimum 3M Double Ram BOP. Max bottom hole pressure should not exceed 5055 psi

**Requesting Variance?** YES

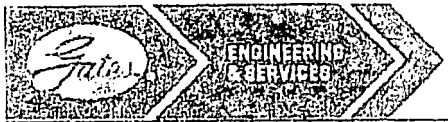
**Variance request:** A variance is requested to allow use of a flex hose as the choke line from the BOP to the Choke Manifold. If this hose is used, a copy of the manufacturer's certification and pressure test chart will be kept on the rig. Attached is an example of a certification and pressure test chart. The manufacturer does not require anchors.

**Testing Procedure:** All BOP testing will be done by an independent service company. Annular pressure tests will be limited to 50% of the working pressure. When nipping up on the 13-5/8" 5M bradenhead and flange, the BOP test will be limited to 3000psi. When nipping 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.

**Choke Diagram Attachment:**

Outrider\_Fed\_3MCM\_20180101084452.pdf

**BOP Diagram Attachment:**



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

Customer :	AUSTIN DISTRIBUTING	Test Date:	6/8/2014
Customer Ref. :	PENDING	Hose Serial No.:	D-060814-1
Invoice No. :	201709	Created By:	NORMA
Product Description:	FD3.042.0R41/16.5KFLGE/E LE		
End Fitting 1 :	4 1/16 in.5K FLG	End Fitting 2 :	4 1/16 in.5K FLG
Gates Part No. :	4774-6001	Assembly Code :	L33090011513D-060814-1
Working Pressure :	5,000 PSI	Test Pressure :	7,500 PSI

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:	QUALITY	Technical Supervisor :	PRODUCTION
Date :	6/8/2014	Date :	6/8/2014
Signature :		Signature :	



U.S. Department of the Interior  
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## Operator Certification Data Report

05/16/2018

### Operator Certification

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

**NAME:** Stephanie Rabadue

**Signed on:** 01/01/2018

**Title:** Regulatory Compliance Analyst

**Street Address:** 500 W. Illinois St, Ste 100

**City:** Midland

**State:** TX

**Zip:** 79701

**Phone:** (432)620-6714

**Email address:** stephanie\_rabadue@xtoenergy.com

### Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



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## Application Data Report

05/16/2018

APD ID: 10400025937

Submission Date: 01/01/2018

Highlighted data  
reflects the most  
recent changes

Operator Name: XTO ENERGY INCORPORATED

Well Name: OUTRIDER FEDERAL

Well Number: 5H

[Show Final Text](#)

Well Type: OIL WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400025937

Tie to previous NOS?

Submission Date: 01/01/2018

BLM Office: CARLSBAD

User: Stephanie Rabadue

Title: Regulatory Compliance Analyst

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM016353

Lease Acres: 1720

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? NO

Permitting Agent? NO

APD Operator: XTO ENERGY INCORPORATED

Operator letter of designation: Outrider\_Fed\_Op\_Rights\_20180101082812.pdf

### Operator Info

Operator Organization Name: XTO ENERGY INCORPORATED

Operator Address: 810 Houston St.

Zip: 76102

Operator PO Box:

Operator City: Ft. Worth

State: TX

Operator Phone: (432)620-6700

Operator Internet Address: Richard\_redus@xtoenergy.com

### Section 2 - Well Information

Well in Master Development Plan? NO

Master Development Plan name:

Well in Master SUPO? NO

Master SUPO name:

Well in Master Drilling Plan? NO

Master Drilling Plan name:

Well Name: OUTRIDER FEDERAL

Well Number: 5H

Well API Number:

Field/Pool or Exploratory? Exploratory

Field Name: WILDCAT

Pool Name:

Is the proposed well in an area containing other mineral resources? USEABLE WATER



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## PWD Data Report

05/16/2018

### Section 1 - General

Would you like to address long-term produced water disposal? NO

### Section 2 - Lined Pits

Would you like to utilize Lined Pit PWD options? NO

Produced Water Disposal (PWD) Location:

PWD surface owner:

PWD disturbance (acres):

Lined pit PWD on or off channel:

Lined pit PWD discharge volume (bbl/day):

Lined pit specifications:

Pit liner description:

Pit liner manufacturers information:

Precipitated solids disposal:

Describe precipitated solids disposal:

Precipitated solids disposal permit:

Lined pit precipitated solids disposal schedule:

Lined pit precipitated solids disposal schedule attachment:

Lined pit reclamation description:

Lined pit reclamation attachment:

Leak detection system description:

Leak detection system attachment:

Lined pit Monitor description:

Lined pit Monitor attachment:

Lined pit: do you have a reclamation bond for the pit?

Is the reclamation bond a rider under the BLM bond?

Lined pit bond number:

Lined pit bond amount:

Additional bond information attachment:



U.S. Department of the Interior  
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## Bond Info Data Report

05/16/2018

### Bond Information

Federal/Indian APD: FED

BLM Bond number: COB000050

BIA Bond number:

Do you have a reclamation bond? NO

Is the reclamation bond a rider under the BLM bond?

Is the reclamation bond BLM or Forest Service?

BLM reclamation bond number:

Forest Service reclamation bond number:

Forest Service reclamation bond attachment:

Reclamation bond number:

Reclamation bond amount:

Reclamation bond rider amount:

Additional reclamation bond information attachment: