

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
**Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No.
NMNM-0000047

6. If Indian, Allottee or Tribe Name
N/A

SUBMIT IN TRIPLICATE - Other instructions on page 27

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

AUG 24 2011

2. Name of Operator
XTO Energy Inc.

3a. Address
382 CR 3100, Aztec, NM 878410

3b. Phone No. (include area code) *Ermerington Field Office*
505-333-3100 *Bureau of Land Management*

7. If Unit of CA/Agreement, Name and/or No.
N/A

8. Well Name and No.
New Mexico Federal N #5

9. API Well No.
30-045-09657

10. Field and Pool or Exploratory Area
Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1190 FSL/1190 FWL, Section 7-T30N-R12W

11. Country or Parish, State
San Juan County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Install Cathodic Protection (Cables Pole, etc.)</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

XTO Energy Inc. requests approval to install cathodic protection for the New Mexico Federal N #5 well and associated pipeline to protect the well casing and pipeline from corrosion. This well and associated pipeline was acquired from Pogo Producing and does not have cathodic protection installed at this time. The attached plat shows the proposal as follows:

- 1) install new rectifier and pole inside fence (for security) utilizing existing overhead power source located on corner of well pad (see plat)
- 2) install 88.6 feet of cathodic cable to New Mexico Federal N #5 well casing
- 3) use existing ground bed on west side of well site (existing disturbance) for this action. Ground bed appears to be in good shape and active.
- 4) install 297.69 feet of cathodic cable along existing well site fence line (previous disturbance) to well pipeline. Install 18" deep.

All proposed facilities are on mostly previously disturbed ground. Small amount of ground (30') just west of well pipeline will be new disturbance. Remainder is existing pipeline corridor or roadway. The new rectifier will be one pole and rectifier, the cable will be trenched in with a small trencher and will be installed to the well casing and the associated steel pipeline.

All disturbance required for installation will be backfilled and reseeded with appropriate seed mixture for area, except for roadway area.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)
Paul Lehrman

Title Sr. Land Coordinator

Signature

Date

8-23-11

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Mark Kelly

Title

ENVIRONMENTAL

Date

8-29-11

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.

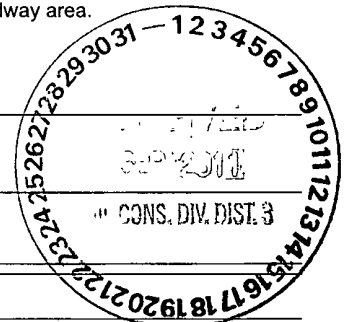
Office

COMPLIANCE TEAM LEAD

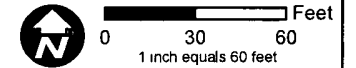
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)








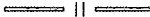







NMOCDA

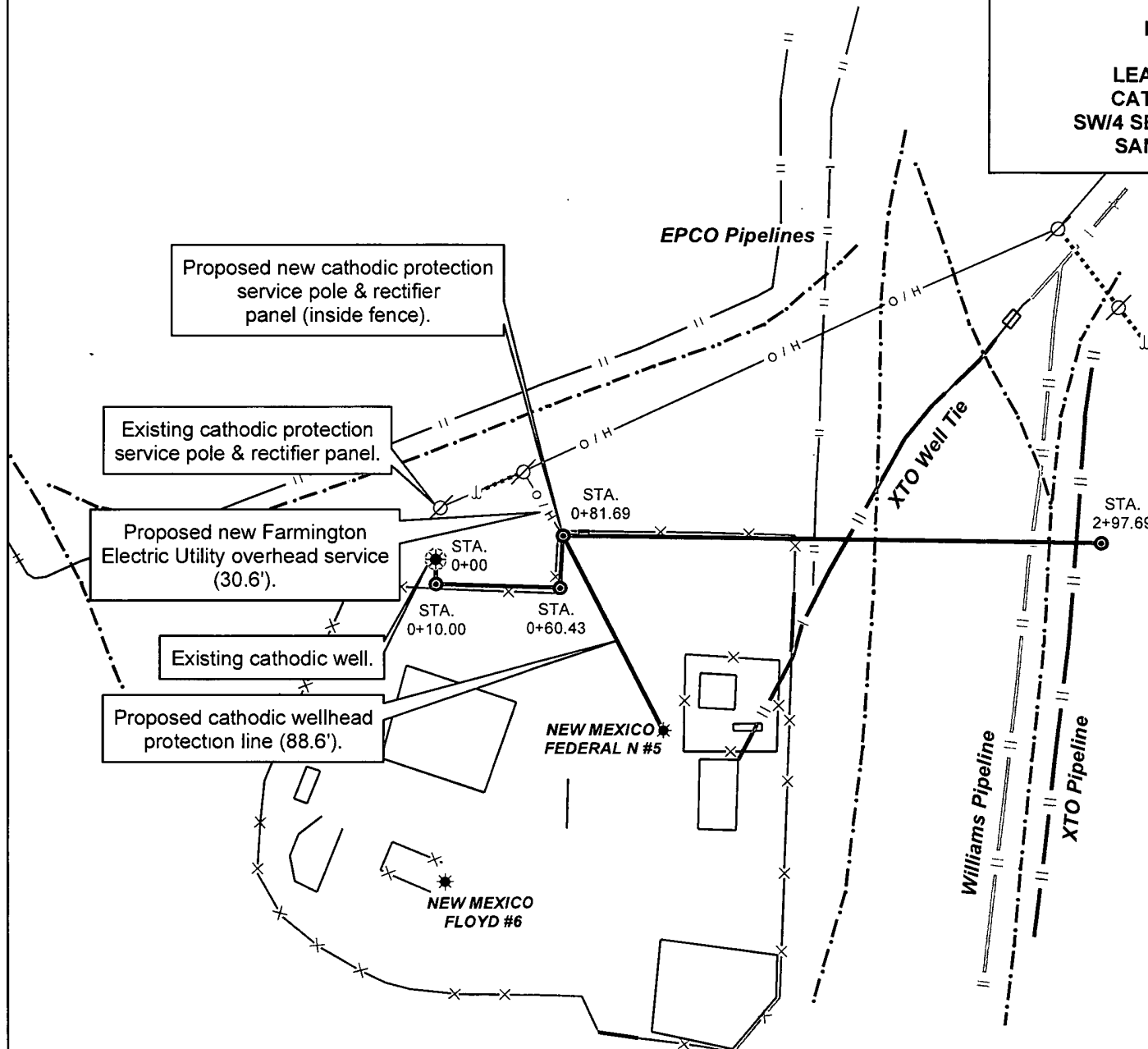


**- EXHIBIT A -
XTO ENERGY INC.
NEW MEXICO FEDERAL N #5
B.L.M. SURFACE/MINERALS
LEASE SERIAL NO. NMNM-0000047
CATHODIC PROTECTION PROJECT
SW/4 SECTION 7 - T-30-N, R-12-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO**



Legend

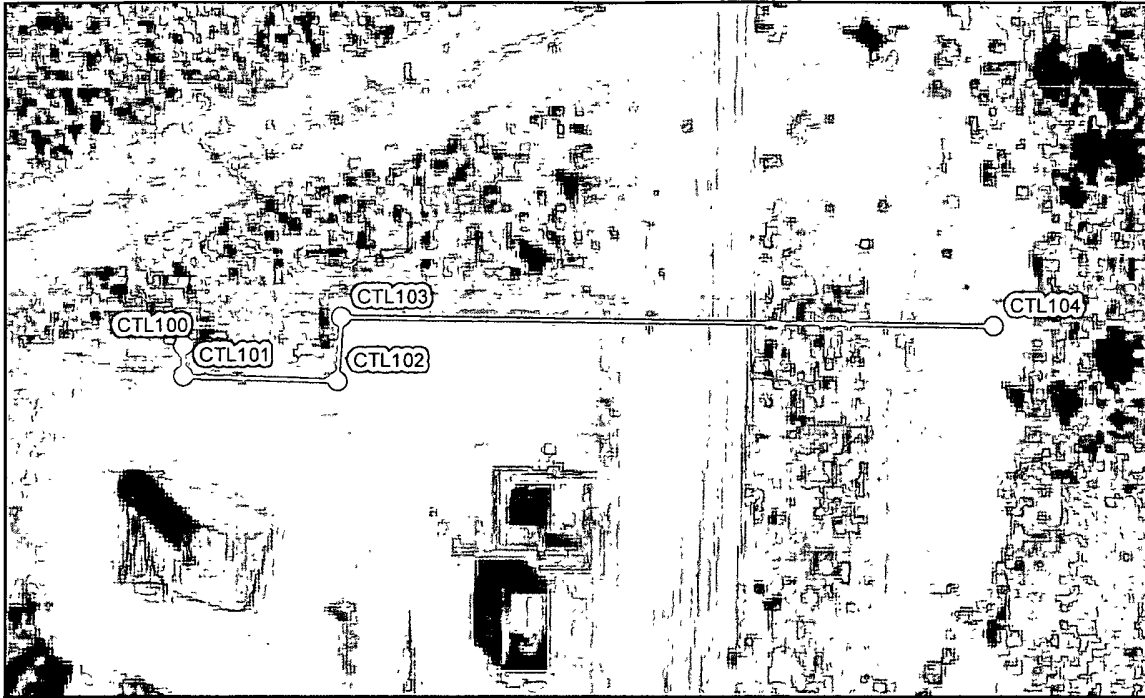
-  Wellhead
-  Cathodic Wellhead
-  Cathodic Ceterline (P.I.)
-  Power Pole
-  Power Pole Anchors
-  Proposed Cathodic Centerline
-  XTO Pipeline
-  WILLIAMS Pipeline
-  EPCO Pipeline
-  Centerline Existing Roads
-  Fences
-  Gates
-  Production Equipment
-  O / H Overhead Power
-  Power Pole Guy Wire



JMAS
JOHNSON MAPPING
AND SURVEYING, LLC
PO BOX 2174
FARMINGTON, NM 87499-2174
ALEX@JOHNSONMAPPING.BIZ
505-360-8029 (C)

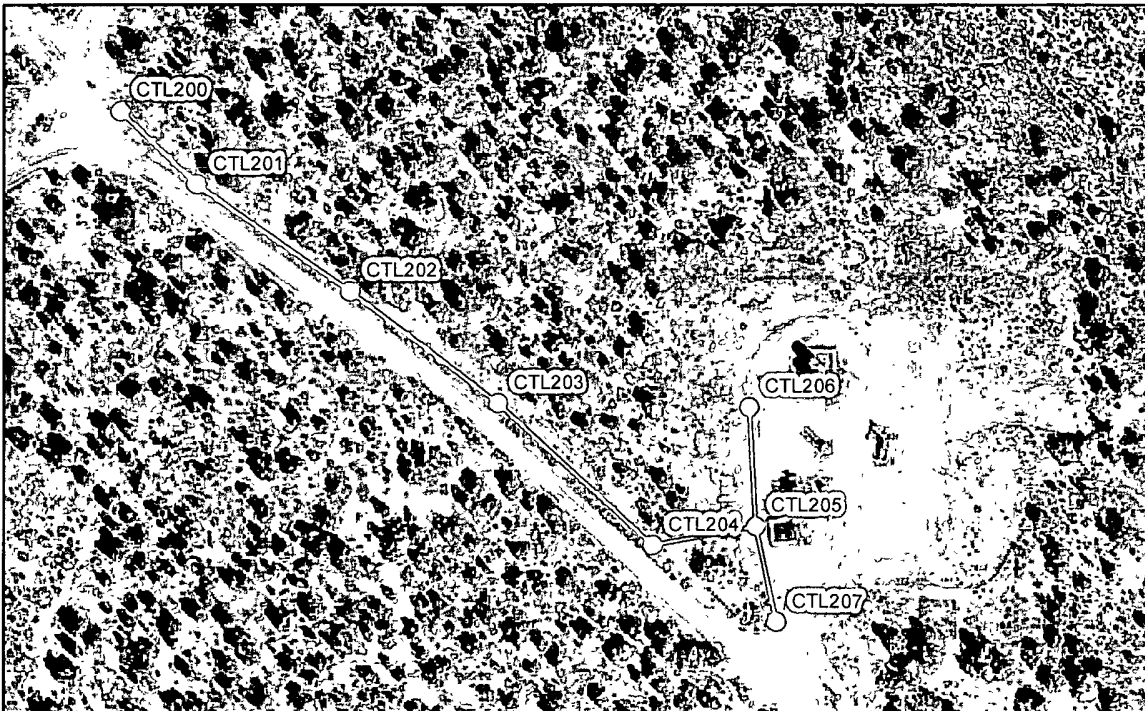
XEN113_20110628.MXD





XTO ENERGY INC.
NEW MEXICO FEDERAL N #5
B.L.M. SURFACE/MINERALS
LEASE SERIAL NO. NMNM-0000047
CATHODIC PROTECTION PROJECT
SW/4 SECTION 7 - T-30-N, R-12-W,
N.M.P.M.

0 30 60 120 Feet
 1 inch equals 60 feet



XTO ENERGY INC.
NEW MEXICO FEDERAL 8 FC #2
B.L.M. SURFACE/MINERALS
LEASE SERIAL NO. NMNM-088909
CATHODIC PROTECTION PROJECT
SW/4 SECTION 8 - T-30-N, R-12-W,
N.M.P.M.

0 75 150 Feet
 1 inch equals 150 feet



JMAS
 JOHNSON MAPPING
 AND SURVEYING, LLC
 PO BOX 2174,
 FARMINGTON NM 87499-2174
 ALEX@JOHNSONMAPPING.BIZ
 505-360-8029 (C)
 XEN113_114_DOUG.MXD

Dykeman Roebuck Archaeology



333 E Main St
Farmington, NM 87401

T 505 330 1825
F 505 325 5062
info@drarchaeology.com

www.drarchaeology.com

August 9, 2011

Paul Lehrman
XTO Energy
382 Road 3100
Aztec, NM 87410

Re. Negative Report, Project DRA116025, Federal N 5 Cathodic Protection Line Cultural Resource Survey for XTO Energy, Inc., San Juan County, New Mexico

Dear Mr Lehrman,

Enclosed is a copy of the archaeological report for the XTO Energy, Inc.'s Federal N 5 cathodic protection line cultural resource survey located on lands administered by Bureau of Land Management, Farmington Field Office (BLM-FFO) in San Juan County, New Mexico

No cultural resources were found in the project area. We recommend archaeological approval for the proposed cathodic protection project.

We have submitted the report to the BLM-FFO. Your business is much appreciated. Please get in touch with me if you have any questions about this project.

Sincerely,

Paul Roebuck, Ph D., Archaeologist
Dykeman Roebuck Archaeology, LLC
333 E Main
Farmington, NM 87401
720 206.6385

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 121545	2a. Lead (Sponsoring) Agency: BLM, Farmington Field Office	2b. Other Permitting Agency(ies):	3. Lead Agency Report No.:									
4. Title of Report: Federal N 5 Cathodic Protection Line Cultural Resource Survey for XTO Energy, Inc., San Juan County, New Mexico Author(s): Douglas D. Dykeman			5. Type of Report <input checked="" type="checkbox"/> Negative <input type="checkbox"/> Positive									
6. Investigation Type <input type="checkbox"/> Research Design <input checked="" type="checkbox"/> Survey/Inventory <input type="checkbox"/> Test Excavation <input type="checkbox"/> Excavation <input type="checkbox"/> Collections/Non-Field Study <input type="checkbox"/> Overview/Lit Review <input type="checkbox"/> Monitoring <input type="checkbox"/> Ethnographic study <input type="checkbox"/> Site specific visit <input type="checkbox"/> Other												
7. Description of Undertaking (what does the project entail?): XTO Energy, Inc. proposes to construct a cathodic protection system to serve the Federal N 5 well. The system consists of a 297.69 ft underground cathodic protection line that extends from the existing cathodic well to an existing XTO pipeline, an 88.6 ft underground cathodic protection line to the Federal N 5 wellhead, installation of a new cathodic protection service pole with rectifier panel, and installation of 30.6 ft of Farmington Electric Utility overhead service line. The width of the area of potential effect (APE) is 20 ft, centered on the proposed cathodic protection lines and overhead service line. Disturbance in the APE, including blading and excavation, will be extensive and intensive.			8. Dates of Investigation: June 17–July 11, 2011 9. Report Date: August 9, 2011									
10. Performing Agency/Consultant: Dykeman Roebuck Archaeology, LLC Principal Investigator: Paul Roebuck, Ph.D. Field Supervisor: Douglas D. Dykeman Field Personnel Names: Douglas D. Dykeman, Julia Chavez, and Victoria Yazzie			11. Performing Agency/Consultant Report No.: DRA116025-1 12. Applicable Cultural Resource Permit No(s): 223-2920-09-D									
13. Client/Customer: XTO Energy, Inc. Contact: Paul Lehrman Address: 382 Road 3100, Aztec, New Mexico 87410 Phone: (505) 333-3100			14. Client/Customer Project No.: n/a									
15. Land Ownership Status (<u>Must be indicated on project map</u>): <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">Land Owner</th> <th style="text-align: center; border-bottom: 1px solid black;">Acres Surveyed</th> <th style="text-align: center; border-bottom: 1px solid black;">Acres in APE</th> </tr> </thead> <tbody> <tr> <td style="border: 1px solid black; padding: 2px;">Federal, BLM-FFO</td> <td style="border: 1px solid black; text-align: center; padding: 2px;">2.29¹</td> <td style="border: 1px solid black; text-align: center; padding: 2px;">0.18¹</td> </tr> <tr> <td colspan="3" style="padding-left: 20px;">calculated using map geometry</td> </tr> </tbody> </table>				Land Owner	Acres Surveyed	Acres in APE	Federal, BLM-FFO	2.29 ¹	0.18 ¹	calculated using map geometry		
Land Owner	Acres Surveyed	Acres in APE										
Federal, BLM-FFO	2.29 ¹	0.18 ¹										
calculated using map geometry												
16. Records Search(es): Results of the records searches are presented in Appendix B <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 33%;">Date(s) of ARMS File Review 6/17/11</td> <td style="width: 33%;">Name of Reviewer(s) Douglas Dykeman</td> <td style="width: 33%;"></td> </tr> <tr> <td>Date(s) of NR/SR File Review 6/17/11</td> <td>Name of Reviewer(s) Douglas Dykeman</td> <td></td> </tr> <tr> <td>Date(s) of Other Agency File Review 7/06/11</td> <td>Name of Reviewer(s) Victoria J. Yazzie</td> <td>Agency BLM-FFO</td> </tr> </table>				Date(s) of ARMS File Review 6/17/11	Name of Reviewer(s) Douglas Dykeman		Date(s) of NR/SR File Review 6/17/11	Name of Reviewer(s) Douglas Dykeman		Date(s) of Other Agency File Review 7/06/11	Name of Reviewer(s) Victoria J. Yazzie	Agency BLM-FFO
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17. Survey Data: a. Source Graphics <input type="checkbox"/> NAD 27 <input checked="" type="checkbox"/> NAD 83 <input checked="" type="checkbox"/> USGS 7.5' (1:24,000) topo map <input type="checkbox"/> Other topo map, Scale: <input checked="" type="checkbox"/> GPS Unit Accuracy <input type="checkbox"/> <1.0m <input checked="" type="checkbox"/> 1-10m <input type="checkbox"/> 10-100m <input type="checkbox"/> >100m b. USGS 7.5' Topographic Map Name USGS Quad Code <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="border: 1px solid black; padding: 2px;">Farmington North, NM</td> <td style="border: 1px solid black; padding: 2px;">36108-G2</td> </tr> <tr> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> <tr> <td style="border: 1px solid black; height: 20px;"></td> <td style="border: 1px solid black; height: 20px;"></td> </tr> </table> c. County(ies): San Juan				Farmington North, NM	36108-G2							
Farmington North, NM	36108-G2											

17. Survey Data (continued):**e. Legal Description:****d. Nearest City or Town:** Farmington, New Mexico

Township (N/S)	Range (E/W)	Section*	¼	¼	¼
30 N	12 W	7	NE	SW	SW
30 N	12 W	7	NW	SE	SW

* Template anchored on SW corner and south section line

Projected legal description? Yes [] , No [X] **Unplatted** []**f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.):****18. Survey Field Methods:****Intensity:** ☒ 100% coverage ☐ <100% coverage**Configuration:** ☐ block survey units ☒ linear survey units (l x w) ☐ other survey units (specify):**Scope:** ☒ non-selective (all sites recorded) ☐ selective/thematic (selected sites recorded)**Coverage Method:** ☒ systematic pedestrian coverage ☐ other method (describe)**Survey Interval (m):** 15 **Crew Size:** 1-2 **Fieldwork Dates:** 6/17/11 and 7/11/11**Survey Person Hours:** 3 **Recording Person Hours:** 0 **Total Hours:** 3

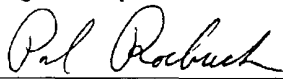
Additional Narrative: Between 1980 and 2007 most of the project area was archaeologically surveyed for a variety of energy facilities. Given the age of the previous work and some uncertainty about previous coverage, DRA conducted a complete archaeological survey of the proposed cathodic lines. The centerlines of the proposed cathodic protection lines were marked with orange flagging tape tied to the chain-link fence of the well pad, the wellhead, and on vegetation out to the pipeline. DRA personnel performed a systematic, pedestrian survey of a 200 ft wide corridor centered on the proposed cathodic protection lines. The 30.6 ft long Farmington Electric Utility overhead service line with minimum 50 ft buffer is included in the survey corridor. The pedestrian survey entailed walking parallel transects with intervals not exceeding 15 m, adjusting the transect interval down for variations in surface visibility. This class 3 survey is an intensive field inventory: a continuous, intensive survey of an entire target area, aimed at locating and recording all archaeological properties that have surface indications, by walking close-interval parallel transects until the area has been thoroughly examined.

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project is located on Hood Mesa on a north-facing slope of an arroyo that drains west to Farmington Glade. Sediments consist of aeolian sand with alluvial deposits in the arroyo north of the project area. Vegetation can be described as open piñon-juniper woodland with an overstory of piñon and juniper trees, and an understory of sagebrush, snakeweed, rabbitbrush, Russian thistle, cheatgrass, Indian ricegrass, and cactus. Elevation of the project area is approximately 5920 ft.

20. a. Percent Ground Visibility: 90% **b. Condition of Survey Area (grazed, bladed, undisturbed, etc.):** The area is used for energy development and for recreation by nearby Farmington residents. Most of the cathodic protection line occurs on the northern edge of the Federal N 5 well pad. Pipelines are located along the eastern and northern sides of the well pad and bladed roads parallel these pipelines. An overhead power line is located in the survey area north of the well pad. Patches of largely undisturbed ground surface occur outside the north fence of the well pad and between an existing road and a Williams pipeline. Modern trash from gas field and recreational uses has accumulated along the roads that intersect at the northeastern corner of the well pad. The trash consists mostly of food wrappers, beverage cans/bottles, an old tire, and scraps of cardboard, wood, metal, and glass.

21. CULTURAL RESOURCE FINDINGS ☐ Yes, See Page 3 ☒ No, Discuss Why:**22. Required Attachments (check all appropriate boxes):**☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn☒ Copy of NMCRIS Mapserver Map Check☐ LA Site Forms - new sites (with sketch map & topographic map)☐ LA Site Forms (update) - previously recorded & un-relocated sites (first 2 pages minimum)☐ Historic Cultural Property Inventory Forms☐ List and Description of isolates, if applicable☐ List and Description of Collections, if applicable**23. Other Attachments:**☐ Photographs and Log☐ Other Attachments

(Describe):

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.**Principal Investigator/Responsible Archaeologist:** Paul Roebuck, Ph.D.**Signature****Date:** August 9, 2011 **Title (if not PI):****25. Reviewing Agency:****Reviewer's Name/Date****Accepted** () **Rejected** ()**Tribal Consultation (if applicable):** ☐ Yes ☐ No**26. SHPO****Reviewer's Name/Date:****HPD Log #:****SHPO File Location:****Date sent to ARMS:**

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.:
121545

2. Lead (Sponsoring) Agency: BLM, Farmington Field Office

3. Lead Agency Report No.:

SURVEY RESULTS: No cultural resources were encountered during the survey

Sites discovered and registered: 0

Sites discovered and NOT registered: 0

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

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

TOTAL SITES VISITED: 0

Total isolates recorded: 0 Non-selective isolate recording? ☒

Total structures recorded *(new and previously recorded, including acequias)*: 0

MANAGEMENT SUMMARY: DRA recommends cultural resources approval for the project as currently proposed since no cultural resources were encountered.

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG

Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

MONITORING LA NUMBER LOG *(site form required)*

Sites Discovered *(site form required)* :

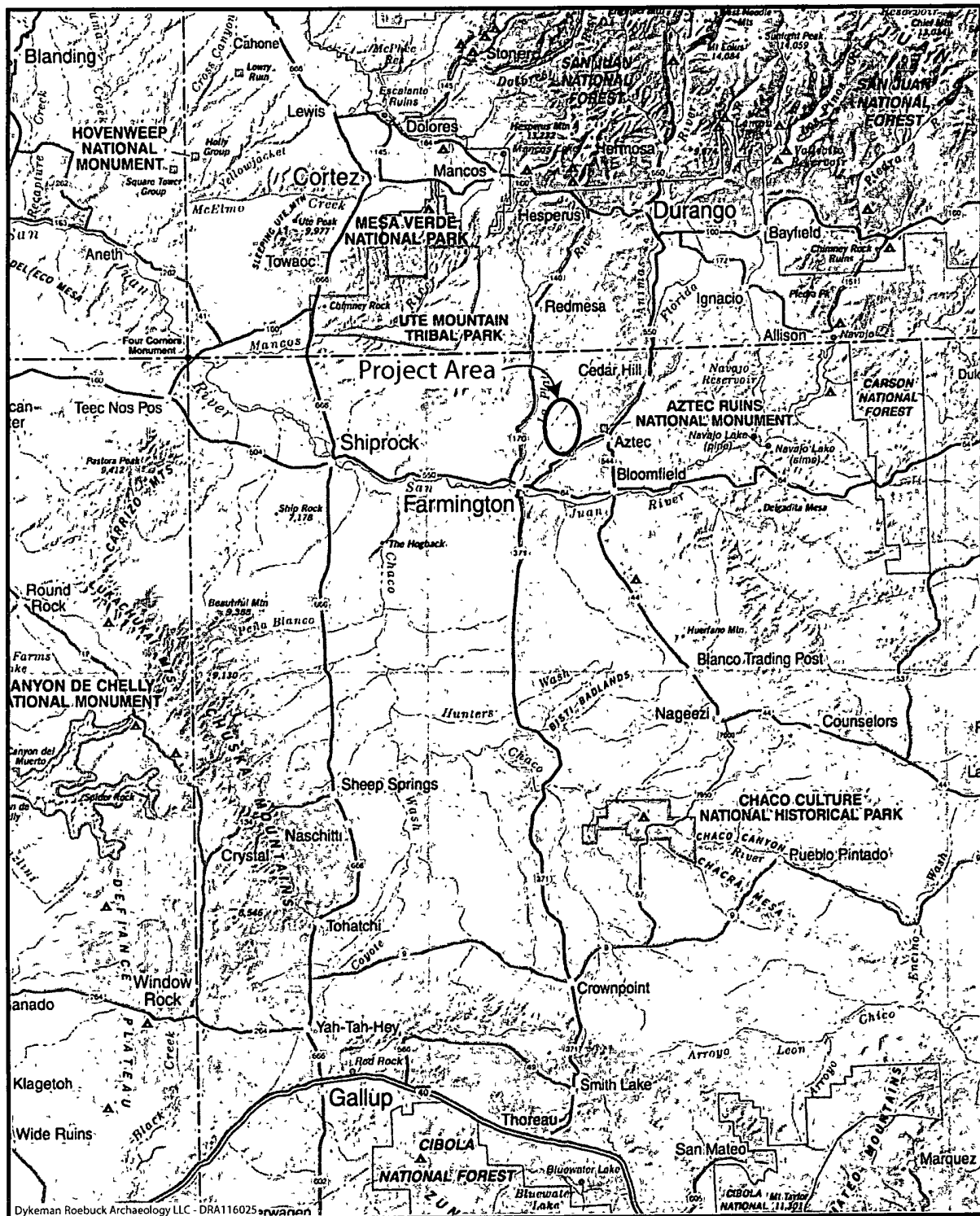
Previously recorded sites *(Site update form required)*:

LA No.	Field/Agency No.	LA No.	Field/Agency No.

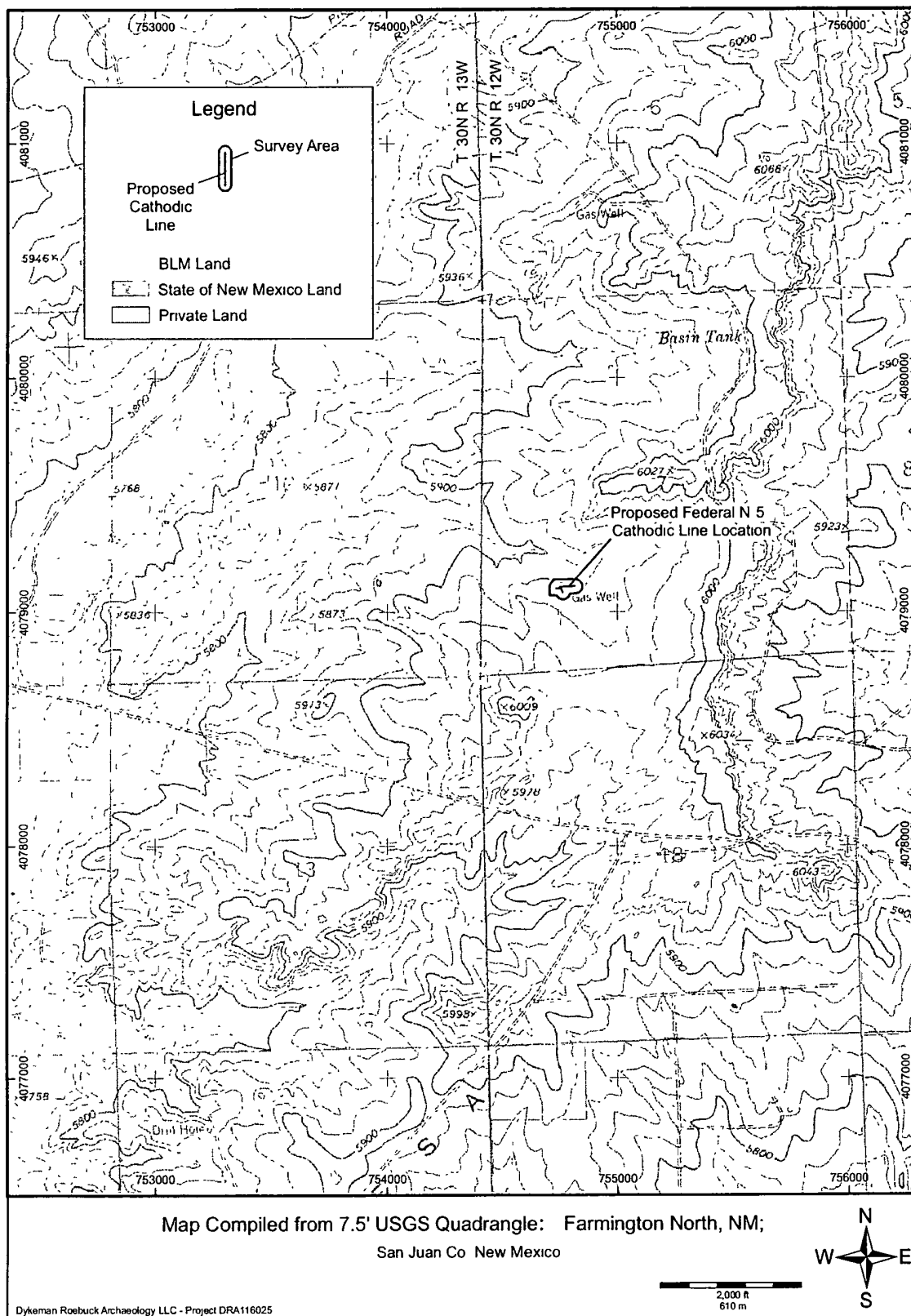
Areas outside known nearby site boundaries monitored? Yes ☐, No ☐ If no explain why:

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

Tested LA number(s)	Excavated LA number(s)



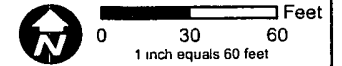
General vicinity map.











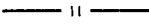

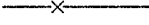

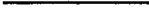


Project area map.

Appendix A
Plat Maps

**- EXHIBIT A -
XTO ENERGY INC.
NEW MEXICO FEDERAL N #5
B.L.M. SURFACE/MINERALS
LEASE SERIAL NO. NMNM-0000047
CATHODIC PROTECTION PROJECT
SW/4 SECTION 7 - T-30-N, R-12-W, N.M.P.M.
SAN JUAN COUNTY, NEW MEXICO**



Legend

-  Wellhead
-  Cathodic Wellhead
-  Cathodic Centerline (P1)
-  Power Pole
-  Power Pole Anchors
-  Proposed Cathodic Centerline
-  XTO Pipeline
-  WILLIAMS Pipeline
-  EPCO Pipeline
-  Centerline Existing Roads
-  Fences
-  Gates
-  Production Equipment
-  O / H Overhead Power
-  Power Pole Guy Wire

Proposed new cathodic protection service pole & rectifier panel (inside fence).

Existing cathodic protection service pole & rectifier panel.

Proposed new Farmington Electric Utility overhead service (30 6').

Existing cathodic well.

Proposed cathodic wellhead protection line (88.6').

**NEW MEXICO
FEDERAL N #5**

**NEW MEXICO
FLOYD #6**

EPCO Pipelines

XTO Well Tie

Williams Pipeline

XTO Pipeline

STA
0+81.69

STA
2+97.69

STA.
0+00

STA
0+10.00

STA
0+60.43

JMAS
JOHNSON MAPPING
AND SURVEYING, LLC
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505-360-8029 (C)
XEN113_20110628.MXD

