

April 7, 2008

Fluid Minerals Group  
Bureau of Land Management  
Vernal Field Office  
170 South 500 East  
Vernal, Utah 84078

RE: Application for Permit to Drill—XTO Energy, Inc.

**BPU 6-23H**

2,005' FNL & 2,158' FWL, SE/4 NW/4, Section 23, T11S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and three copies of the Application for Permit to Drill (APD) for the above referenced BLM surface and mineral vertical well. A letter from XTO Energy immediately follows this letter to charge the APD processing fee under the Fiscal Year 2008 Consolidated Appropriations Act. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats, layouts and photos of the proposed well site;

Exhibit "B" - Proposed location maps with access and utility corridors;

Exhibit "C" - Production site layout;

Exhibit "D" - Drilling Plan

Exhibit "E" - Surface Use Plan with APD Certification;

Exhibit "F" - Typical BOP and Choke Manifold diagram;

Exhibit "G" - Cultural and Paleontological Clearance Reports.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Ken Secrest of XTO Energy, Inc. at 435-722-4521 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for XTO Energy, Inc.

cc: Diana Mason, Division of Oil, Gas and Mining  
Ken Secrest, XTO Energy, Inc.

**FILE COPY**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

5. Lease Serial No. <b>UTU-76267</b>	
6. If Indian, Allottee or Tribe Name N/A	
7. If Unit or CA Agreement, Name and No. <b>Big Pack Unit</b>	
8. Lease Name and Well No. <b>BPU 6-23H</b>	
9. API Well No. <b>43-047-0009</b>	
1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER	10. Field and Pool, or Exploratory <del>Wildcat</del> <b>Wildcat</b>
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone	11. Sec., T. R. M. or Blk. and Survey or Area <b>Section 23, T11S, R20E, SLB&amp;M</b>
2. Name of Operator <b>XTO Energy, Inc.</b>	
3a. Address <b>PO Box 1360; 978 North Crescent Roosevelt, UT 84066</b>	3b. Phone No. (include area code) <b>435-722-4521</b>
12. County or Parish <b>Uintah</b> 13. State <b>UT</b>	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>2,005' FNL &amp; 2,158' FWL, SE/4 NW/4, 39.847708</b> At proposed prod. zone <b>615714X 4411520Y -109.647448</b>	
14. Distance in miles and direction from nearest town or post office* <b>16.70 miles south of Ouray, Utah</b>	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>467'</b>	16. No. of acres in lease <b>2,200 acres</b>
17. Spacing Unit dedicated to this well <b>40 acres</b>	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. <b>1,350'</b>
19. Proposed Depth <b>9,025'</b>	20. BLM/BIA Bond No. on file <b>UTB-000138</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>5,464' GR</b>	22. Approximate date work will start* <b>06/15/2008</b>
23. Estimated duration <b>14 days</b>	

24. Attachments

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

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

25. Signature <b>Don Hamilton</b>	Name (Printed/Typed) <b>Don Hamilton</b>	Date <b>04/07/2008</b>
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Title  
**Agent for XTO Energy, Inc.**

Approved by (Signature)	Name (Printed/Typed) <b>BRADLEY G. HILL</b>	Date <b>04-14-08</b>
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Title  
**ENVIRONMENTAL MANAGER**

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.

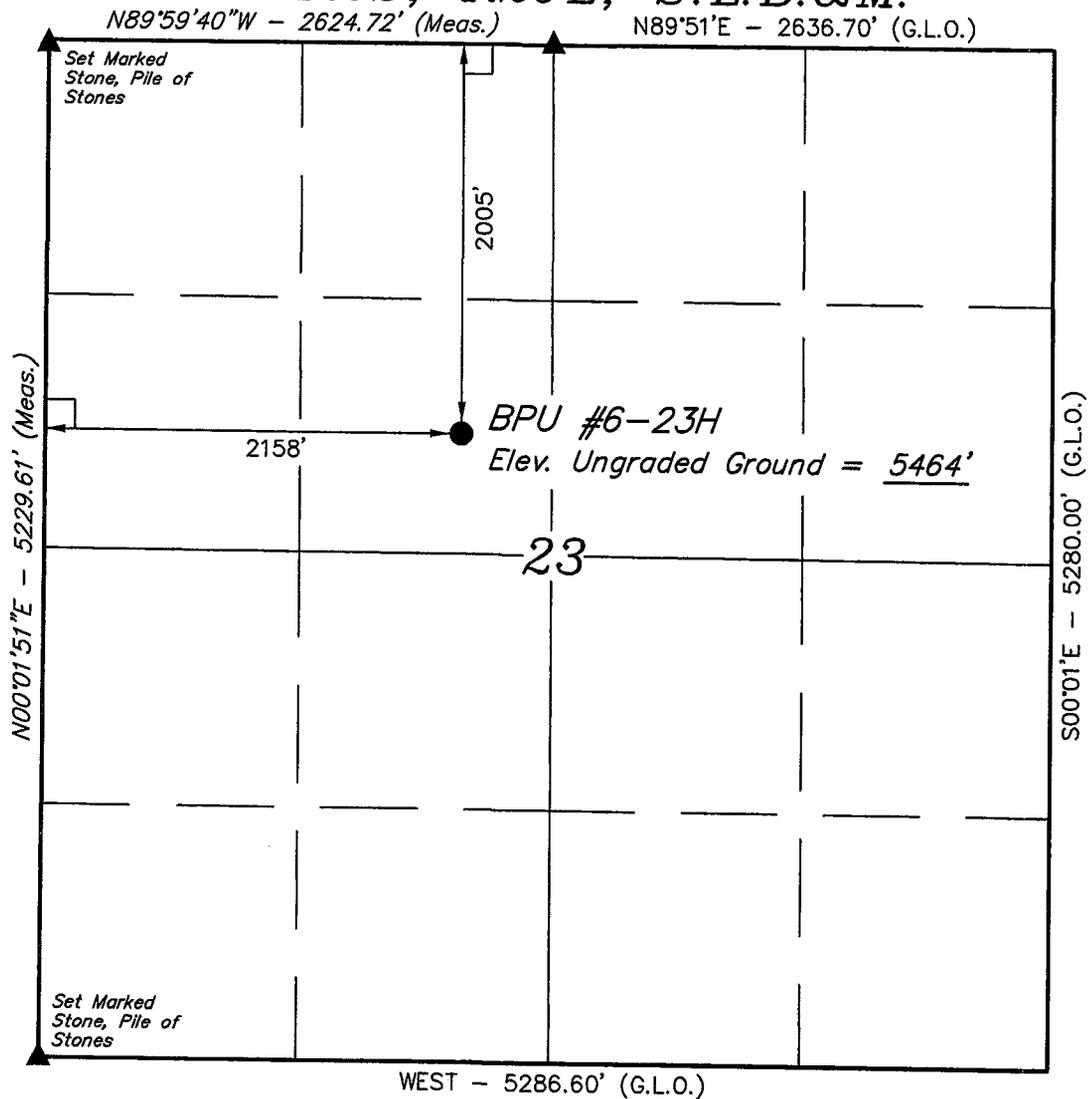
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on page 2)

**Federal Approval of this Action is Necessary**

**RECEIVED**  
**APR 10 2008**  
**DIV. OF OIL, GAS & MINING**

# T11S, R20E, S.L.B.&M.

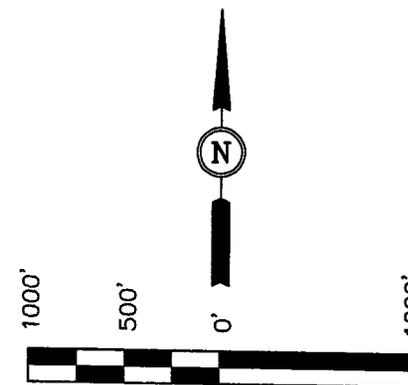


## XTO ENERGY, INC.

Well location, BPU #6-23H, located as shown in the SE 1/4 NW 1/4 of Section 23, T11S, R20E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

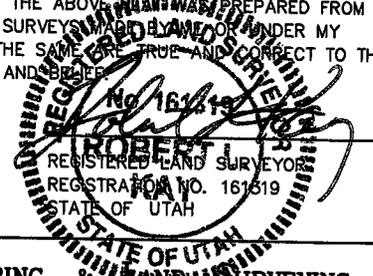
SPOT ELEVATION AT THE SOUTHWEST CORNER OF SECTION 20, T10S, R20E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN. NW QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5251 FEET.



SCALE

### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAN WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



Revised 3-25-08 D.P.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

### LEGEND:

- $\perp$  = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED BY DOUBLE PROPORTION METHOD. (Not Set On Ground)

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)  
 LATITUDE =  $39^{\circ}50'51.36''$  (39.847600)  
 LONGITUDE =  $109^{\circ}38'53.17''$  (109.648103)  
 (NAD 27)  
 LATITUDE =  $39^{\circ}50'51.48''$  (39.847633)  
 LONGITUDE =  $109^{\circ}38'50.69''$  (109.647414)

SCALE 1" = 1000'	DATE SURVEYED: 03-30-07	DATE DRAWN: 04-12-07
PARTY J.R. J.M. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE XTO ENERGY, INC.	



## **COVER SHEET FOR ALL FEDERAL APDs**

**Dear BLM Office:**

**Re: Fiscal Year 2008 Consolidated Appropriations Act**

**Please charge the \$4000 APD fee to the credit card XTO has provided to the BLM office and send the receipt to:**

**Brenda Waller  
XTO Energy, Inc.  
382 Road 3100  
Aztec, NM 87410**

**Please contact me if anything further is needed at 505-215-0027.**

**Sincerely,**

**XTO Energy, Inc.**

A handwritten signature in cursive script that reads 'Brenda Waller'.

**Brenda Waller  
Manager of Regulatory Compliance**

# DRILLING PLAN

**BPU 6-23H**  
**March 23, 2008**

**Location:** 2005' FNL & 2158' FWL, Sec. 23, T11S, RR20E      **County:** Uintah      **State:** Utah

**GREATEST PROJECTED TD:** 9025' MD  
**APPROX GR ELEV:** 5464'

**OBJECTIVE:** Wasatch/Mesaverde  
**Est KB ELEV:** 5478' (14' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 2200'	2200' to 9025'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.4	8.6-9.20
VISCOSITY	NC	30-60
WATER LOSS	NC	8-15

Remarks: Use fibrous materials as needed to control seepage and lost circulation. Pump high viscosity sweeps as needed for hole cleaning. Raise viscosity at TD for logging. Reduce viscosity after logging for cementing purposes. The mud system will be monitored visually/manually.

## 2. CASING PROGRAM:

Surface Casing: 9.625" casing set at ± 2200' in a 12.25" hole filled with 8.4 ppg mud

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-2200'	2200'	36#	J-55	ST&C	2020	3.66	394	8.921	8.765	2.10	3.66	4.97

Production Casing: 5.5" casing set at ±9025' in a 7.875" hole filled with 9.2 ppg mud.

Interval	Length	Wt	Gr	Cplg	Coll Rating (psi)	Burst Rating (psi)	Jt Str (M-lbs)	ID (in)	Drift (in)	SF Coll	SF Burst	SF Ten
0'-9025'	9025'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.84	2.27	2.27

Collapse and burst loads calculated at TVD with 0.1 psi/ft gas gradient back up.

## 3. WELLHEAD:

- A. Casing Head: Larkin Fig 92 (or equivalent), 9" nominal, 2,000 psig WP (4,000 psig test) with 9-5/8" 8rnd thread on bottom (or slip-on, weld-on) and 11-3/4" 8rnd thread on top.
- B. Tubing Head: Larkin Fig 612 (or equivalent), 6.456" nominal, 5,000 psig WP, 5-1/2" 8rnd female thread on bottom (or slip-on, weld-on), 8-5/8" 8rnd thread on top.

## 4. CEMENT PROGRAM:

- A. Surface: 9.625", 36#, J-55, ST&C casing to be set at ±2200' in 12.25" hole.

### LEAD:

±185 sx of Type V cement (or equivalent) typically containing accelerator and LCM mixed at 11.0 ppg, 3.82 cu. ft./sk.

TAIL:

225 sx of Class G (or equivalent) typically containing accelerator and LCM mixed at 15.8 ppg, 1.15 cu. ft./sk.

*Total estimated slurry volume for the 9.625" surface casing is 956.5 ft<sup>3</sup>. Slurry includes 35% excess of calculated open hole annular volume to 2200'.*

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9025' in 7.875" hole.

LEAD:

±459 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.12 ft<sup>3</sup>/sk, 17.71 gal wtr/sx.

TAIL:

300 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.75 cuft/sx, 9.09 gal/sx.

*Total estimated slurry volume for the 5.5" production casing is 1958 ft<sup>3</sup>. Slurry includes 15% excess of calculated open hole annular volume.*

*Note: The slurry design may change slightly based upon actual conditions. Final cement volumes will be determined from the caliper logs plus 15% or greater excess. The cement is designed to circulate on surface and intermediate casing strings.*

**5. LOGGING PROGRAM:**

- A. Mud Logger: The mud logger will come on at intermediate casing point and will remain on the hole until TD. The mud will be logged in 10' intervals.
- B. Open Hole Logs as follows: Run Array Induction/SFL/GR/SP fr/TD (9025') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9025') to 2200'.

**6. FORMATION TOPS:**

<b>FORMATION</b>	<b>Sub-Sea Elev. (@SHL)</b>	<b>TVD (@SHL)</b>
Green River	4970	513
Mahogany Bench Mbr.	4230	1,253
Wasatch Tongue	2,320	3,163
Green River Tongue	2,005	3,478
Wasatch*	1,860	3,623
Chapita Wells*	965	4,518
Uteland Buttes	-5	5,488
Mesaverde*	-740	6,223
Castlegate	N/A	N/A
TD**	<b>-3,542</b>	<b>9,025</b>

\* Primary Objective

7. **ANTICIPATED OIL, GAS, & WATER ZONES:**

A.

Formation	Expected Fluids	Well Depth Top
Green River	Water/Oil Shale	513
Mahogany Bench Mbr.	Water/Oil Shale	1,253
Wasatch Tongue	Oil/Gas/Water	3,163
Green River Tongue	Oil/Gas/Water	3,478
Wasatch*	Gas/Water	3,623
Chapita Wells*	Gas/Water	4,518
Uteland Buttes	Gas/Water	5,488
Mesaverde*	Gas/Water	6,223
Castlegate	Gas/Water	N/A

- B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
- C. There are no known potential sources of H<sub>2</sub>S.
- D. Expected bottom hole pressures are between 4100 psi and 4600 psi.
- E. Base of Moderately Saline Water (USGS) at 3863'.

8. **BOP EQUIPMENT:**

Surface will not utilize a bop stack.

Production hole will be drilled with a 3000 psi BOP stack.

Minimum specifications for pressure control equipment are as follows:

Ram Type: 11" Hydraulic double ram with annular, 3000 psi w.p.

Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 70% of internal yield pressure of casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer. If a test plug is utilized, no bleed-off pressure is acceptable. For a test not utilizing a test plug, if a decline in pressure of more than 10% in 30 minutes occurs, the test shall be considered to have failed. Valve on casing head below test plug shall be open during test of BOP stack.

Annular type preventers (if used) shall be tested to 50% of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.

As a minimum, the above test shall be performed:

- a. when initially installed:
- b. whenever any seal subject to test pressure is broken
- c. following related repairs: and
- d. at 30 day intervals

Valves shall be tested from working pressure side during BOPE tests with all down stream valves open.

When testing the kill line valve(s) shall be held open or the ball removed.

Annular preventers (if used) shall be functionally operated at least weekly.

Pipe and blind rams shall be activated each trip, however, this function need not be performed more than once a day.

A BOPE pit level drill shall be conducted weekly for each drilling crew.

The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No.2 for equipment and testing requirements, procedures, etc., and individual components shall be operable as designed. Chart recorders shall be used for all pressure tests. Pressure tests shall apply to all related well control equipment.

BOP systems shall be consistent with API RP53. Pressure tests will be conducted before drilling out from under casing strings which have been set and cemented in place. Test pressures for BOP equipment are as follows:

- Annular BOP -- 1500 psi
- Ram type BOP -- 3000 psi
- Kill line valves -- 3000 psi
- Choke line valves and choke manifold valves -- 3000 psi
- Chokes -- 3000 psi
- Casing, casinghead & weld -- 1500 psi
- Upper kelly cock and safety valve -- 3000 psi
- Dart valve -- 3000 psi

Blowout preventer controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection will be recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

The BLM in Vernal, UT shall be notified, at least 24 hours prior to initiating the pressure test, in order to have a BLM representative on location during pressure testing.

- a. The size and rating of the BOP stack is shown on the attached diagram.
- b. A choke line and a kill line are to be properly installed.
- c. The accumulator system shall have a pressure capacity to provide for repeated operation of hydraulic preventers.
- d. Drill string safety valve(s), to fit all tools in the drill string, are to be maintained on the rig floor while drilling operations are in progress.
- e. See attached BOP & Choke manifold diagrams.

9. **COMPANY PERSONNEL:**

<u>Name</u>	<u>Title</u>	<u>Office Phone</u>	<u>Home Phone</u>
John Egelston	Drilling Engineer	505-333-3163	505-330-6902
Bobby Jackson	Drilling Superintendent	505-333-3224	505-486-4706
Glen Christiansen	Project Geologist	817-885-2800	

## SURFACE USE PLAN

**Name of Operator:** XTO Energy, Inc.  
**Address:** P.O. Box 1360; 978 North Crescent  
Roosevelt, Utah 84066  
**Well Location:** BPU 6-23H  
2,005' FNL & 2,158' FWL, SE/4 NW/4,  
Section 23, T11S, R20E, SLB&M, Uintah County, Utah

The surface owner or surface owner representative and dirt contractor will be provided with an approved copy of the surface use plan of operations and approved conditions of approval before initiating construction.

The onsite inspection for the referenced well was conducted on Tuesday, May 15, 2007 at approximately 12:45 pm. In attendance at the onsite inspection were the following individuals:

Ken Secrest	Regulatory Coordinator	XTO Energy, Inc.
Karl Wright	Natural Resource Specialist	BLM – Vernal Field Office
Brandon McDonald	Wildlife Biologist	BLM – Vernal Field Office
Dale Birdwell	HSE Coordinator	Dominion E & P, Inc.
Don Allred	Surveyor	Uintah Engineering and Land Surveying
Randy Jackson	Foreman	Jackson Construction
Billy McClure	Foreman	LaRose Construction
Don Hamilton	Permitting Agent	Buys & Associates, Inc.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 16.70 miles south of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Big Pack Unit area. However, an encroachment permit is not anticipated since no upgrades to the State or County Road system are proposed at this time.
- d. All existing roads will be maintained and kept in good repair during all phases of operation.
- e. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- f. Since no improvements are anticipated to the State, County, Tribal or BLM access roads no topsoil striping will occur.
- g. An off-lease federal Right-of-Way may be required for the access road and utility corridor segments that are within the Little Canyon Unit area.

2. Planned Access Roads:

- a. From the existing LCU 14-11H access road a new access is proposed trending east 0.2 miles then south 1.6 miles along new disturbance to the proposed well site. The access crosses two significant drainages.
- b. A road design plan is not anticipated at this time.
- c. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across entirely BLM surface.
- d. BLM approval to construct and utilize the proposed access road is requested with this application.
- e. A maximum grade of 10% will be maintained throughout the project.
- f. No turnouts are proposed since adequate site distance exists in all directions.
- g. Several low-water crossing and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- h. No surfacing material will come from federal or Indian lands.
- i. No gates or cattle guards are anticipated at this time.
- j. Surface disturbance and vehicular travel will be limited to the approved location access road.
- k. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (Gold Book – Fourth Edition - Revised 2007).
- l. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. Exhibit B has a map reflecting these wells within a one mile radius of the proposed well.

4. Location of Existing and/or Proposed Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Covert Green /Carlsbad Canyon to match the standard environmental colors. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. Site security guidelines identified in 43 CFR 3163.7-5 and Onshore Oil and Gas Order No. 3 will be adhered to.
- c. A gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162. 7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- d. A tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines

and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for natural gas production and measurement.

- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A pipeline corridor containing a single steel gas pipeline and a single steel or poly pipe water pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the east side of the well site and traverse 1.6 miles north then 0.2 miles west to the existing LCU 14-11H pipeline corridor.
- i. XTO Energy, Inc. also requests permission to upgrade the existing pipeline corridor to contain a single steel gas pipeline and a single steel or poly pipe water pipeline within the previously approved pipeline corridor and traverse between the drilled LCU 14-11H and the LCU Trunk Line along the previously approved route.
- j. The new and upgraded segments of the gas pipeline will be a 12" or less buried line and the water pipeline will be a 12" or less buried line within a 45' wide disturbed pipeline corridor.
- k. Construction of the pipeline corridor will temporarily utilize the 30' disturbed width for the road for a total disturbed width of 75' for the road and pipeline corridors. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction.
- l. XTO Energy, Inc. intends to bury the pipeline where possible and connect the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. No water supply pipelines will be laid for this well.
- b. No water well will be drilled for this well.
- c. Drilling water for this will be hauled on the road(s) shown in Exhibit B.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10991, Section 9, T8S, R20E;
  - o Water Permit #43-2189, Section 33, T8S, R20E;
  - o Water Permit #49-2158, Section 33, T8S, R20E;
  - o Water Permit #49-2262, Section 33, T8S, R20E;
  - o Water Permit #49-1645, Section 5, T9S, R22E;
  - o Water Permit #43-9077, Section 32, T6S, R20E;
  - o Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

- a. The use of materials will conform to 43 CFR 3610.2-3.
- b. No construction materials will be removed from Ute Tribal or BLM lands.
- c. If any gravel is used, it will be obtained from a state approved gravel pit.

7. Methods of Handling Waste:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried on site.
- c. The reserve pit will be located outboard of the location and along the southeast side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 16 mil minimum thickness plastic nylon reinforced liner material. The liner will overlay a felt liner pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completion of the well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completion of the well.
- h. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- i. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, salt water or other produced fluids will be cleaned up and removed.
- j. After initial clean-up, a 400 bbl tank will be installed to contain produced waste water. This water will be transported from the tank to an approved XTO Energy, Inc. disposal well for disposal.
- k. Produced water from the production well will be disposed of at the RBU 13-11F or RBU 16-19F disposal wells in accordance with Onshore Order #7.
- l. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.

- m. Sanitary facilities will be on site at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with state and county regulations.

8. Ancillary Facilities:

- a. Garbage Containers and Portable Toilets are the only ancillary facilities proposed in this application.
- b. No camps, airstrips or staging areas are proposed with this application.

9. Well Site Layout: (See Exhibit B)

- a. The well will be properly identified in accordance with 43 CFR 3162.6.
- b. Access to the well pad will be from the northeast.
- c. The pad and road designs are consistent with BLM specification
- d. A pre-construction meeting with responsible company representative, contractors, and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size; however it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. **All surface disturbing activities, will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.**
- g. **All cut and fill slopes will be such that stability can be maintained for the life of the activity.**
- h. **Diversion ditches will be constructed as shown around the well site to prevent surface waters from entering the well site area.**
- i. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- j. **The stockpiled topsoil (first 6 inches or maximum available) will be stored in a windrow on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.**
- k. **Pits will remain fenced until site cleanup.**
- l. **The blooie line will be located at least 100 feet from the well head.**
- m. **Water injection may be implemented if necessary to minimize the amount of fugitive dust.**

10. Plans for Restoration of the Surface (Interim Reclamation and Final Reclamation):
- a. Site reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
  - b. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. Once the reserve pit is dry, the plastic nylon reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and that portion of the location not needed for production facilities/operations will be re-contoured to the approximate natural contours.
  - c. Following BLM published Best Management Practices the interim reclamation will be completed within 90 days of completion of the well to reestablish vegetation, reduce dust and erosion and compliment the visual resources of the area.
    - a. All equipment and debris will be removed from the area proposed for interim reclamation and the pit area will be backfilled and re-contoured.
    - b. The area outside of the rig anchors and other disturbed areas not needed for the operation of the well will be re-contoured to blend with the surrounding area and reseeded at 12 lbs /acre with the following native grass seeds:
      - o Hy-Crested Wheat Grass (4 lbs / acre)
      - o Needle and Thread Grass (4 lbs / acre)
      - o Squirrel Tail (4 lbs / acre)
    - c. Reclaimed areas receiving incidental disturbance during the life of the producing well will be re-contoured and reseeded as soon as practical.
  - d. The Operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the BLM or the appropriate County Extension Office. On BLM administered land, it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
  - e. Prior to final abandonment of the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the BLM. The BLM recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.
- b. Mineral Ownership – Federal under the management of the Bureau of Land Management - Vernal Field Office, 170 South 500 East, Vernal, Utah 84078; 435-781-4400.

12. Other Information:

a. Operators Contact Information:

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>	<u>Mobile Phone</u>	<u>e-mail</u>
Company Rep.	Ken Secrest	435-722-4521	435-828-1450	Ken_Secrest@xtoenergy.com
Agent	Don Hamilton	435-719-2018	435-719-2018	starpoint@etv.net

- b. Buys & Associates, Inc. has conducted a Class III archeological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Buys & Associates, Inc.
- c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- d. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.
  - c. Corner 9 will be rounded approximately 25' and rip-rap will be installed to minimize erosion to this corner. A ditch will also be constructed from corner 8 to corner 9.

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 exists; 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 and that bond coverage is provided under XTO Energy, Inc's BLM bond UTB-000138. These statements are subject to the provisions of 18 U.S.C. 1001 for the fling of false statements.

Executed this 7<sup>th</sup> day of April, 2008.

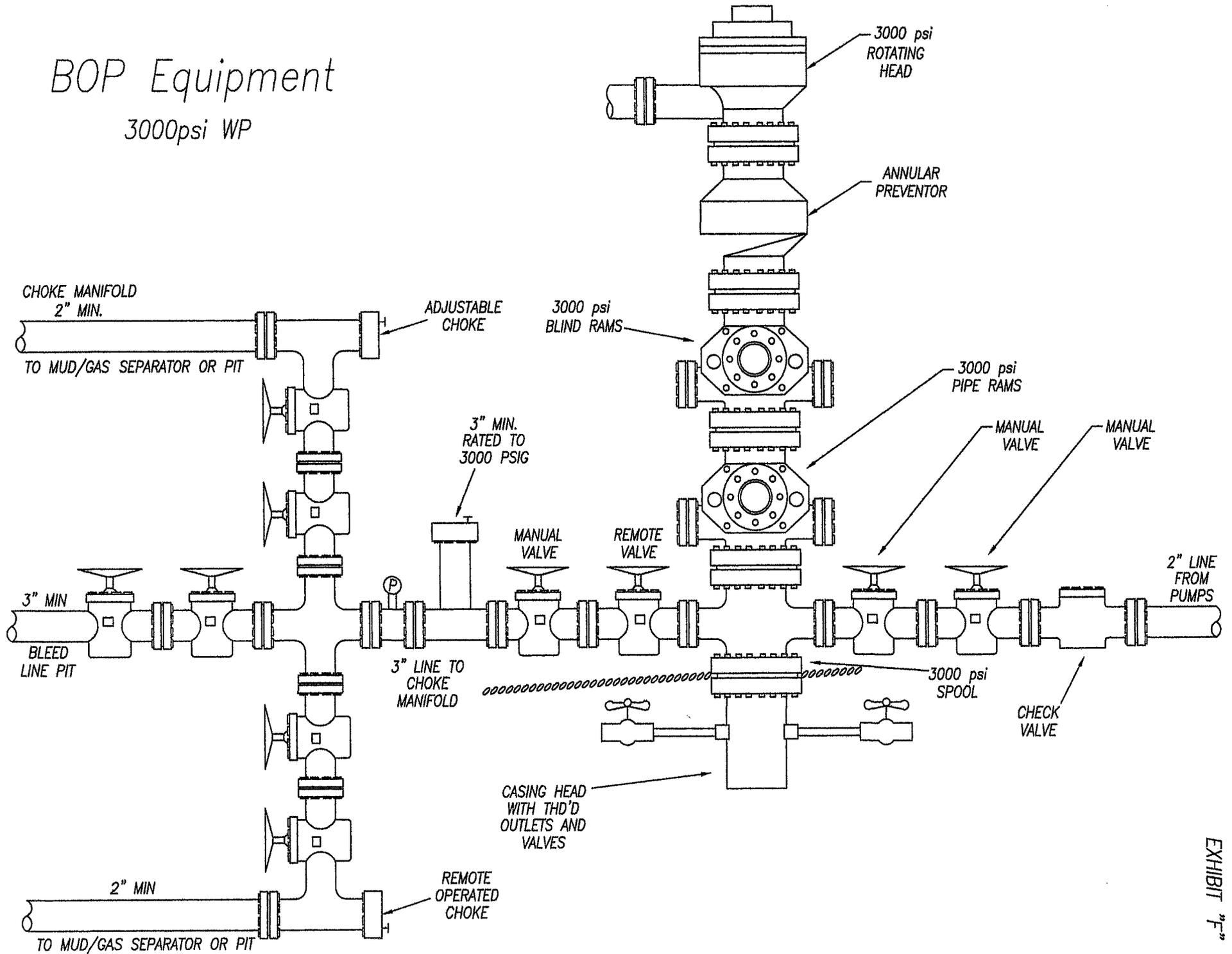
Don Hamilton

Don Hamilton -- Agent for XTO Energy, Inc.  
2580 Creekview Road  
Moab, Utah 84532

435-719-2018  
starpoint@etv.net

# BOP Equipment

3000psi WP



CLASS III CULTURAL RESOURCE INVENTORY OF DOMINION'S PROPOSED BIG  
PACK UNIT LOCATION #6-23H, ASSOCIATED ACCESS ROAD, AND PIPELINE

UINTAH COUNTY, UTAH

Author:

Shina duVall, Cultural Resource Specialist

Prepared for:

Dominion Exploration & Production, Inc.  
1400 North State Street; PO Box 1360  
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Prepared by:

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300 E. Mineral Avenue, Suite 10  
Littleton, CO 80122-2655

Principal Investigator: Jonathan D. Kent, Ph.D  
Field Supervisor: Stephen Snyder

Buys & Associates, Inc. Report No.: U-07-477-06-0022  
State of Utah Project No.: U-07-UY-0811b

July 23, 2007

Utah State Archaeological Survey Permit No.: 85  
United States Department of the Interior Federal Land Policy and Management Act  
(FLPMA) Permit No.: 07UT85002

## CONFIDENTIALITY NOTICE:

Section 304 of the National Historic Preservation Act (16 U.S.C. 470w-3[a]) and Section 9 of the Archaeological Resources Protection Act of 1979 (16 U.S.C. 470hh) establish regulations regarding the confidentiality of information concerning the nature and location of archaeological resources. Therein is stated that information concerning the nature and location of any archaeological resource may not be made available to the public unless the Federal land manager concerned determines that such disclosure would not create a risk of harm to such resources or to the site at which such resources are located, or impede the use of a traditional religious site by practitioners.

As such, to the extent permitted by law, all information on archaeological resources and their locations gathered and presented with regard to the proposed project will be treated as confidential. All parties associated with the proposed project will ensure (1) that all information regarding specific site locations is kept confidential except for disclosures required by law or necessary to carry-out protection of sites; (2) that specific site locations are not included in any document made available to the general public; and (3) this information shall not be utilized by the requestor to destroy, excavate, or vandalize resources.

## ABSTRACT

A Class III cultural resource inventory was conducted by Buys & Associates, Inc. in July 2007 for Dominion Exploration & Production, Inc.'s proposed well location #6-23H and 0.33 miles of associated access road and pipeline. The Project Area is located east of the Green River, just south of the confluence of Hill Creek and Willow Creek, in the general area of Big Pack Mountain in the Uinta Basin, Uintah County, Utah. The legal location of the Project Area is Section 23, Township 11S, Range 20E. The total area of survey included 16.34 acres on land administered by the Bureau of Land Management (BLM) Vernal Field Office.

This Class III inventory resulted in the identification of four previous cultural resource inventories that were conducted within 1 mile of the Project Area. These previous inventories resulted in the identification of 105 archaeological sites (42Un1294-42Un1304, 42Un1340-42Un1342, 42Un1780, 42Un1953, 42Un2487, TRC Mariah 142236 and 142207, 42Un1386, 42Un3067-42Un3126, 42Un3128-3135, 42Un4728-42Un4742, 42Un5237, and 42Un5238), 14 of which (42Un1386, 42Un3068, 42Un3073, 42Un3076, 42Un3079, 42Un3082, 42Un3085, 42Un3087, 42Un3095, 42Un3099, 42Un3101, 42Un3119, 42Un3129, and 42Un3131) were determined to be eligible for listing on the National Register of Historic Places. However, none of these previously recorded sites is located in the Project Area. No new cultural resources were recorded as a result of this inventory.

No avoidance or mitigation measures are recommended for the proposed project as there will be no effects to any historic properties as a result of the undertaking. Therefore, a determination of "no historic properties affected" is proposed for the project pursuant to Section 106 of the National Historic Preservation Act (36 CFR 800).

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# 1. INTRODUCTION

Buy's & Associates, Inc. (B&A) conducted this Class III cultural resource inventory of Dominion Exploration & Production, Inc.'s (*Dominion*) proposed well location #6-23H, and 0.33 miles of associated access road and pipeline. The Project Area is located east of the Green River, just south of the confluence of Hill Creek and Willow Creek, in the general area of Big Pack Mountain in the Uinta Basin, Uintah County, Utah. The legal location of the Project Area is in Section 23, Township 11S, Range 20E (**Figure 1.1**). The total area of survey included 16.34 acres on land administered by the Bureau of Land Management (BLM) Vernal Field Office.

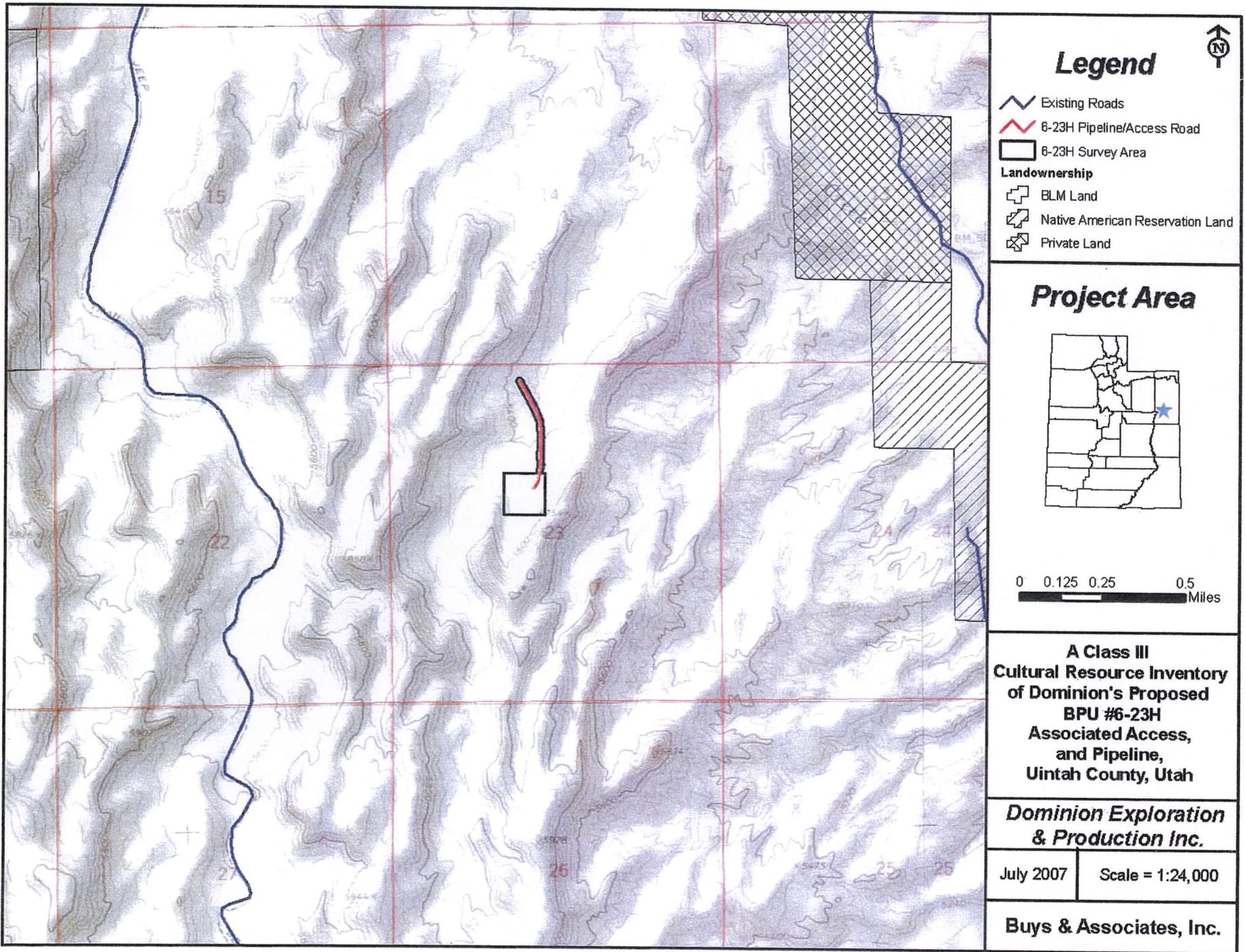
This cultural resource inventory was conducted in compliance with Federal and State legislation including Section 106 of the National Historic Preservation Act of 1966 (as amended) (NHPA), the National Environmental Policy Act of 1969, the Archaeological and Historic Preservation Act of 1974, the Archaeological Resources Protection Act of 1979 (ARPA), and the American Indian Religious Freedom Act of 1978. The NHPA sets forth national policy and procedures regarding "historic properties"—that is, regions, sites, buildings, structures, and objects included in or eligible for the National Register of Historic Places (NRHP). Section 106 of the NHPA requires Federal agencies to consider the effects of their undertakings on such properties, following regulations issued by the Advisory Council on Historic Preservation (ACHP) (36 CFR 800).

Criteria for evaluating the significance of resources for listing on the NRHP are outlined in 36 CFR 800.10, "National Register Criteria." The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and:

- a) that are associated with events that have made a significant contribution to the broad patterns of our history;
- b) that are associated with the lives of persons significant in our past;
- c) that embody the distinctive characteristics of a type, period, or method of construction, or represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; and
- d) that have yielded, or may be likely to yield, information important in prehistory or history.

This Class III cultural resource inventory was conducted by Stephen Snyder and Jeff Yelton of B&A during the week of July 2-6, 2007. The records search was conducted by Marty Thomas at the Division of State History, Salt Lake City, Utah on May 31, 2007. Jonathan D. Kent, Ph.D, served as the principal investigator. Stephen Snyder served as the Field Supervisor. All field notes and photographs are on file at B&A's office in Littleton, Colorado under project number U-07-477-06-0022.

This Class III inventory resulted in the identification of four previous cultural resource inventories that were conducted within 1 mile of the Project Area. These previous inventories resulted in the identification of 105 archaeological sites (**42Un1294-42Un1304, 42Un1340-42Un1342, 42Un1780, 42Un1953, 42Un2487, TRC Mariah 142236 and 142207, 42Un1386, 42Un3067-42Un3126, 42Un3128-3135, 42Un4728-42Un4742, 42Un5237, and 42Un5238**), 14 of which (**42Un1386, 42Un3068, 42Un3073, 42Un3076, 42Un3079, 42Un3082, 42Un3085, 42Un3087, 42Un3095, 42Un3099, 42Un3101, 42Un3119, 42Un3129, and 42Un3131**) were determined to be eligible for listing on the NRHP. However, none of these previously recorded sites is located in the Project Area. No new cultural resources were recorded as a result of this inventory.



**Figure 1.1** Location of Dominion's Proposed Big Pack Unit #6-23H, Associated Access Road and Pipeline.

## **2. ENVIRONMENT**

The Uinta Basin and Uinta Mountains are located in the northeast corner of the State of Utah and are part of a larger physiographic area known as the Colorado Plateau. The Project Area is located east of the Green River, just south of the confluence of Hill Creek and Willow Creek, in the general area of Big Pack Mountain in the Uinta Basin, Uintah County, Utah. The elevation of the Project Area ranges from approximately 5,100 to 5,700 feet. The topography consists of flat rocky ridges dissected by deep narrow canyons. It is characterized by raised, sloping benches or rides, incised ephemeral draws, and washes. Soils in the Project Area are shallow and consist of clay loams. Colluvium with some bedrock sandstone is also present. Drainage in the area is to the north with the Alger Pass drainages associated with Kings Canyon and the Willow Creek Unit drainages connected to Brown Canyon. Vegetation in the area includes Utah juniper, pinyon pine, black sagebrush, shadscale, galleta grass, Gardner's saltbush, prickly phlox, horsebrush, bud sage, American kochia, and cheat grass, with either pinyon and juniper trees and sagebrush as the dominant vegetation type. The Project Area and the Green River to the north and west provide habitat for numerous species of birds, mammals, reptiles, amphibians, fish, and invertebrates. Modern disturbances include oil and gas facilities and various roads.

## **3. CULTURE HISTORY**

The prehistory of the Uinta Basin is complex and poorly understood because of its location at the intersection of the Great Basin, Colorado Plateau, and Northern Plains cultures. The cultural trajectory of change in the Uinta Basin has been generally categorized into five cultural-chronological periods, defined by Jennings (1986). These are the Paleoindian, Archaic, Formative (Fremont), Post Formative (Protohistoric), and Contact periods. The earliest evidence of a human presence in the area (during the Paleoindian period) dates back to approximately 12,000 years before present (B.P.) during the terminal Pleistocene. This period is characterized by specialized hunting of big game animals, including the now-extinct species of mammoth and bison. Evidence for the Paleoindian presence in the Uinta Basin region comes from a few Clovis and Folsom projectile points and some Plano Complex lanceolate projectile points (Hauck 1998). However, these sparse isolated finds define the extent of the Paleoindian presence in the area, as few sites associated with the period have been sufficiently documented (Spangler 1995:332).

The Archaic stage, which dates from approximately 8000 B.P. to 1500 B.P., is better represented in the archaeological record of the area. This period is further subdivided into the Early Archaic phase, which dates from approximately 8000 to 5000 B.P.; the Middle Archaic, which dates to approximately 5000 B.P. to 2500 B.P.; and the Late Archaic, which dates from approximately 2500 B.P. to 1450 B.P. In the Uinta Basin, there are few artifacts or sites dating to the Early Archaic, but the Middle and Late Archaic phases are better represented in the archaeological record (Holmer 1986). In comparison to the Paleoindian period, the Archaic period is characterized by increased foraging subsistence strategy. Archaic peoples exploited a wide variety of floral resources, and began hunting an array of smaller to medium-sized game animals such as cottontail rabbits, muskrats, birds, beavers, prairie dogs, deer, antelope, mule, and

bighorn sheep. Archaic period cultural material includes an elaboration and expansion of the lithic toolkit with the introduction of new types of projectile points and the atlatl. Site types associated with the Archaic period include rock shelters, open-air campsites, plant gathering areas, and processing sites (Spangler 1995). The archaeological record indicates that the population in the Uinta Basin increased during the Middle Archaic period and continued to increase into the Late Archaic period. The first evidence of the construction of formal architectural features, such as semi-subterranean residential structures, and the beginnings of maize horticulture begin during the Late Archaic period.

The Formative period (Fremont) dates to approximately 2500 B.P. to annos domini (A.D.) 1400. During this period, the populations living in the Uinta Basin became more dependent on cultivated crops including corn, beans, and squash (Marwitt 1970). The Formative period is also marked by increased sedentism and the introduction of more elaborate and formal architectural features, such as shallow pithouse structures. Larger groups began occupying more permanent villages and some habitation sites appear to be positioned in strategic locations, such as atop buttes (Shields 1970). In addition, the Formative period, known in this area as the Uinta Fremont, witnessed the introduction of additional specialized technologies such as ceramics and the bow and arrow. The archaeology of Uinta Fremont architectural features has revealed evidence of postholes, hearths, two-handled wide-mouth vessels, and metates (Shields 1970).

The archaeological record indicates that the Formative period overlaps with the Post-Formative (Protohistoric) period as evidence suggests the arrival of Numic peoples in the area before the disappearance of Formative-period peoples (Reed 1994). Evidence of Numic (Ute and Shoshonean) artifacts and sites appears around approximately A.D. 1100. This transition from the Formative to the Post-Formative (Protohistoric) periods is characterized by a return to subsistence and settlement patterns that resembled the Archaic period trends, including more nomadic and semi-sedentary lifeways, and increased hunting and gathering. The exact nature, timing, and reasons for this transition and the apparent replacement of the rich and extensive Fremont culture and subsequent return to a more nomadic, hunting and gathering lifeway is unknown. Floral and faunal resources exploited by Numic-speaking peoples appear to have included goosefoot, grass seeds, pinyon nuts, juniper berries, squawbush berries and leaves, hackberry seeds, saltbush seeds, knotweed, chokecherry, chickweed, various small game, and deer, elk, pronghorn, and bison (Reed 1994:191). The habitation features of the Numic-speaking peoples consist primarily of wickiups, which are frame huts covered with matting made from bark or brush. It appears that the seasonal movement of small groups during this period was necessary to utilize these various resources. Cultural material in the archaeological record that is associated with Numic-speaking peoples include lithic stone tool scatters, brown ware pottery, "Shoshonean knives" (Janetski 1994), and rock art.

Euro-American activity in the Uinta Basin began with an initial interest in trapping and mineral and petroleum development and is generally defined by periods of Exploration, Trapping and Trading (1776-1852); Early Settlement (1853-1861); Reservation (1862-1868); Secondary Settlement and Early Irrigation (1869-1885); Mineral Development (1886-1904); Land Rush and Water Development (1905-1927); Drought, Depression, and World War II (1928-1945); and Post-War (1946-present).

The Dominguez and Escalante expedition of 1776 marks the beginning of the historic period in this area. In his diary, Escalante called the basin "a fine plain abounding in pasturage and fertile, arable land, provided it were irrigated." These explorers opened the basin to Spanish, Mexican, American, and British fur-trappers, traders, and settlers. Over the next 100 years, early trappers, Mormon settlers, surveyors, and military expeditions passed through or settled in the area. Historic resource exploitation in this area includes mining, logging, and oil and gas extraction. The early historic periods were often marked by conflict between the original inhabitants of the region and Euro-American groups.

Between the late 1820s and the 1840s, the basin and mountains were visited by such prominent historical figures as William H. Ashley, Etienne Provost, Antoine Robidoux, and Kit Carson. At least two semi-permanent trading posts were established in the basin. These included Fort Robidoux (Fort Uintah or Winty) and Fort Kit Carson. Furthermore, several expeditions visited the area, including the Captain John C. Fremont expedition during the 1840s, and that of Major John Wesley Powell who floated the Green River in 1869 and 1871. The area was not initially identified as an area to be settled by Mormon leaders. In the early 1860s, Brigham Young sent a small expedition to the area to determine its suitability for settlement, but the expedition reported that "all that section of country lying between the Wasatch Mountains and the eastern boundary of the territory, and south of Green River country, was one vast contiguity of waste and measurably valueless...excepting for nomadic purposes, hunting grounds for Indians and to hold the world together."

The Uintah Reservation was established in 1861. Several Ute groups, including the Uinta-ats (Tavaputs), PahVant, Tumpanawach, Cumumba, and Sheberetch formed the Uintah Band during the late 1860s to early 1870 (Burton 1996). The Uintah Reservation was established to include Utes who had previously lived in central Utah and Ute groups from Colorado, specifically the White River Utes who had participated in the Meeker Massacre of September 29, 1879, were added to the Utah reservation in 1882 (Burton 1996; Callaway, Janetski, and Stewart 1986). The establishment of the reservation and subsequent inclusion of Ute groups from Colorado required that the Utes living in central Utah and the White River Utes of Colorado give up their residence there, and move to the Uintah Reservation, which is located in the northeast portion of the state of Utah. In addition, the Ouray Reservation, which bordered the southern boundary of the Uintah Reservation, was established during this time. This reservation was set up to include a band of Uncompahgre Utes. The Utes that were forced to move into these reservations were forced to sell their lands, and in many cases were not compensated for any resulting loss of land or independence. Furthermore, their relocation, residence, and containment on the two reservations was enforced militarily by the infantry stationed at the Department of War at Fort Thornburgh, which was established in 1881 (Burton 1996). Originally, the Uintah-Ouray Reservation encompassed over 3.5 million acres. However, today, the Uintah Utes, White River Utes, and Uncompahgre Utes occupy only a small fraction of their former reservation lands. Between 1890 and 1933, over 500,000 acres of the Uintah-Ouray Reservation were taken for homesteading, and in 1906, over 900,000 additional acres were taken from the reservation and added to the National Forests (Clemmer 1986).

Thomas Smart was one of the first white settlers to inhabit the area east of Ouray in 1878. This was followed by additional settlement in the area of the White River in the late 1870s to early 1880s. In 1888, gilsonite and other asphaltum minerals were

discovered in various parts of the basin, which included eastern portions of the Uintah-Ouray Reservation. Miners convinced the Federal government to withdraw 7,000 acres from the reservation so that they could legally proceed with gilsonite mining activities. This area was called "the Strip." Between the late 1880s and early 1900s, the Dawes Act of 1887 and other mining and development campaigns succeeded in opening the Uinta Basin Indian Reservations, including the Uintah, the Ouray, and the Uncompahgre, to homesteading, development, and mining activities. The Mormon presence and increased settlement in the area grew after Thomas Smart's brother, William H. Smart, organized several expeditions into the Ouray Valley and the newly opened Ute Reservation. William H. Smart also became the president of the Wasatch Latter Day Saints (LDS) State in 1901 (Burton 1998). Several LDS families relocated to this area following Smart's initial exploration.

Early settlers in the region depended on livestock as the primary industry. Ranching and livestock make up an important part of the history of the Uinta Basin. Cattle were brought in from Brown's Park in Texas and other eastern areas since the early 1850s, and they were brought up to the Green River and surrounding mountain areas. The area offered an abundance of grass and water appropriate for livestock management. In 1912, the Uintah Cattle and Horse Growers Association was established. This group served to organize and issue brands to ranchers and to curtail rampant cattle rustling, which was becoming a significant problem as existing ranches grew in size and new ranches were established in the area (Burton 1996). Following the development of the cattle ranching industry, the sheep industry and the production of wool became an important industry in the Uinta Basin and its introduction coincided and possibly played a part in the waning of the cattle ranching industry. Sheep were desirable because of their heartiness and ability to survive the difficult basin winters better than cattle. Robert Bodily introduced the region to sheep in 1879 when he introduced a herd of 60. Following this introduction, the number of sheep being ranches in the region grew to approximately 50,000 head by the mid 1890s. Large-scale shearing corrals were built by C.S. Carter, and later by the Uintah Railway Company, and in 1899, the Uinta Basin sheep ranching industry was shipping 500,000 pounds of wool out of the area. The enormous growth of the wool industry in the region resulted in the passing of the Taylor Grazing Act in 1934, which designated certain areas as "districts" to stockmen, and required permits for livestock grazing. This act and acts like it led in part to the development of the Bureau of Land Management in 1946 (Burton 1996).

Uintah County is recognized for its various natural resources. These include coal, copper, iron, asphalt, shale, and as aforementioned, gilsonite. Commercial oil production began in 1948, but was not fully exploited until the 1970s, when the price of crude oil increased. The region has since experienced a boom and bust economic climate that is highly dependent on the price of and demand for oil and gas. Most recently the economic stability of the Uinta Basin is increasingly dependent on world energy prices and demand.

#### **4. CLASS I INVENTORY**

A file search for previous projects and documented cultural resources was conducted at the Division of State History – Utah State Historic Preservation Office (USHPO) on May 31, 2007. The purpose of the file search was to identify the previous cultural resource inventories conducted within the Project Area and the number, type, and eligibility

recommendations made for all of the archaeological sites previously documented. The NRHP National Register Information System (NRIS) online database was also consulted to determine if there are any NRHP-listed sites within the Project Area.

The results of the Class I inventory indicated that four cultural resource inventories had been conducted within 1 mile of the Project Area. These previous inventories resulted in the identification of 105 archaeological sites (42Un1294-42Un1304, 42Un1340-42Un1342, 42Un1780, 42Un1953, 42Un2487, TRC Mariah 142236 and 142207, 42Un1386, 42Un3067-42Un3126, 42Un3128-3135, 42Un4728-42Un4742, 42Un5237, and 42Un5238), 14 of which (42Un1386, 42Un3068, 42Un3073, 42Un3076, 42Un3079, 42Un3082, 42Un3085, 42Un3087, 42Un3095, 42Un3099, 42Un3101, 42Un3119, 42Un3129, and 42Un3131) were determined to be eligible for listing on the NRHP. However, none of these previously recorded sites is located in the Project Area. These inventories and their findings are summarized in Table 4.1.

**Table 4.1 Previous Cultural Resource Inventories Conducted in the Vicinity of the Project Area and Applicable Findings**

<b>Project No.</b>	<b>Company Name</b>	<b>Project Name</b>	<b>Findings</b>
U-83-CE-0499b	Chambers Consultants and Planners	Cultural Resource Study on the White River Oil Shale Lease Lands in the Vernal District, Utah	42Un1294-42Un1304, 42Un1340-42Un1342
U-86-AF-611b	Archeological-Environmental Research Corporation	Cultural Resource Evaluations of Enserch Exploration Company: East Bench Unit No. 1, Willow Creek Unit No. 1, and Cottonwood Wash Unit No. 1, Uintah County, Utah	No Cultural Resources
U-02-MQ-0243b,p,s	Montgomery Archaeological Consultants, Inc.	Cultural Resources Inventory of Seven Seismic Lines for the Veritas Uintah Seismic Project, Uintah County, Utah	42Un1780, 42Un1953, 42Un2487, TRC Mariah 142236 and 142207, 42Un1386, 42Un3067-42Un3126, 42Un3128-3135
U-05-MQ-0096b,s	Montgomery Archaeological Consultants, Inc.	Cultural Resource Inventory of Mak-J Energy's Big Pack Unit 16 Well Locations, Uintah County, Utah	42Un4728-42Un4742

## 5. FIELD SURVEY

The objective of the field inventory is to identify and document all eligible prehistoric and historic archaeological sites, as well as areas that may have a high probability of significant subsurface materials that may be impacted by the proposed undertaking. During the survey, the ground surface is examined for archaeological artifacts, features, or other evidence of human presence including charcoal-stained sediments or rock surface oxidation indicating the presence of fire. Particular consideration is given to areas of existing surface disturbance, including areas of erosion, cutbanks, animal

burrows, anthills, roads, and other areas of construction activities as these areas provide indications of the potential for subsurface deposits of cultural material.

The Class III field inventory was conducted on all areas proposed for surface disturbance. At each proposed well location, a 10-acre square parcel is defined, centered on the well pad center stake. The survey area width for the access road and pipeline routes is 30 meters (100 feet) to either side of the centerline. A 100 percent pedestrian coverage survey is then conducted on the entire 10-acre area with archaeologists walking parallel transects spaced at 15 meters (45 feet) apart.

## **6. SUMMARY OF THE KNOWN CULTURAL RESOURCES**

This Class III inventory resulted in the identification of four previous cultural resource inventories that were conducted within 1 mile of the Project Area. These previous inventories resulted in the identification of 105 archaeological sites (42Un1294-42Un1304, 42Un1340-42Un1342, 42Un1780, 42Un1953, 42Un2487, TRC Mariah 142236 and 142207, 42Un1386, 42Un3067-42Un3126, 42Un3128-3135, 42Un4728-42Un4742, 42Un5237, and 42Un5238), 14 of which (42Un1386, 42Un3068, 42Un3073, 42Un3076, 42Un3079, 42Un3082, 42Un3085, 42Un3087, 42Un3095, 42Un3099, 42Un3101, 42Un3119, 42Un3129, and 42Un3131) were determined to be eligible for listing on the NRHP. However, none of these previously recorded sites is located in the Project Area.

No new cultural resources were recorded during the survey of 16.34 acres for Dominion's Proposed Big Pack Unit location #6-23H, associated access road, and pipeline.

## **7. EVALUATION AND RECOMMENDATIONS**

No avoidance or mitigation measures are recommended for the proposed project as there will be no effects to any historic properties as a result of the undertaking. Therefore, a determination of "*no historic properties affected*" is proposed for the project pursuant to Section 106 of the NHPA (36 CFR 800).

To minimize any potential damage to or destruction of cultural resources and to maintain compliance with Federal and State cultural resource legislation, the following stipulations should be adhered to by all project personnel:

- The operator and its contractors would inform their employees about Federal regulations intended to protect cultural resources. All personnel would be informed that collecting artifacts, including arrowheads, is a violation of Federal law.
- If cultural resources are uncovered during surface-disturbing activities, the operator and its contractors would suspend all operations at the site and the discovery would be immediately reported to the Authorized Officer, who would arrange for a determination of significance in consultation with the SHPO, and if necessary, recommend a recovery or avoidance plan.
- All vehicular traffic, personnel and equipment movement, and construction activities should be confined to the locations surveyed for cultural resources as

referenced in this report, and to the existing roadways and/or inventoried access routes.

## 8. REFERENCES

Burton, D.K. 1996. *A History of Uintah County. Scratching the Surface*. Utah Centennial County History Series. Utah State Historical Society and Uintah County Commission, Salt Lake City, Utah.

Burton, D.K. 1998. *Settlements of Uintah County, Digging Deeper*. Utah Centennial County History Series. Utah State Historical Society and Uintah County Commission, Salt Lake City, Utah.

Callaway, D., J. Janetski, and O.C. Stewart. 1986. Ute. In *Great Basin*, edited by Warren L. D'Azevedo, pp. 336-367. Handbook of North American Indians, Volume II: Great Basin, edited by William C. Sturtevant, Smithsonian Institution, Washington.

Clemmer, R.O. 1986. Hopis, Western Shoshones, and Southern Utes: Three Different Responses to the Indian Reorganization Act of 1934. *American Indian Cultural and Research Journal* 10:15-40.

Hauck, F.R. 1986. Cultural Resource Examination of Four Proposed Well Locations in the Saddletree Draw - Atchees Wash Locality of Uintah County, Utah. Archaeological-Environmental Research Corporation, Bountiful, Utah. Report No. U-86-AF-781b.

Holmer, R. 1986. Projectile Points of the Intermountain West. In *Anthropology of the Desert West: Essays in Honor of Jesse D. Jennings*, edited by Carol J. Condie and Don D. Fowler, pp. 89-116. *University of Utah Anthropological Papers* No. 110. Salt Lake City.

Janetski, Joel. 1994. *Recent Transitions in the Eastern Great Basin: The Archaeological Record*. In *Across the West: Human Population Movement and the Expansion of the Numa*, edited by David B. Madsen and David Rhode, pp. 157-178. University of Utah Press, Salt Lake City, Utah.

Jennings, J.D. 1986. *Handbook of North American Indians, Volume 11, Great Basin*. Subeditor and contributor. Washington, D.C.: Smithsonian Institution. American archaeology 1930-1985: One person's view. In *American Archaeology: Past, Present, and Future. A Celebration of the Society for American Archaeology, 1935-1985*, eds. D. Meltzer, D. Fowler, and J. A. Sabloff. Washington, D.C.: Smithsonian Institution Press.

Marwitt, J.P. 1970. Median Village and Fremont Culture Regional Variation. *University of Utah Anthropological Papers* No. 95. Salt Lake City.

Reed, A.D. 1994. The Numic Occupation of Western Colorado and Eastern Utah during the Prehistoric and Protohistoric Periods. In *Across the West: Human Population Movement and the Expansion of the Numa*, edited by D.B. Madsen and D. Rhode. University of Utah Press.

Shields, W.F. 1970. The Fremont Culture in the Uinta Basin. Paper presented at the Fremont Culture Symposium, 35<sup>th</sup> Annual Meeting of the Society for American Archaeology, Mexico City.

Spangler, J.D. 1995. Paradigms and Perspectives, A Class I Overview of Cultural Resources in the Uinta Basin and Tavaputs Plateau, Volume II. Uinta Research, Salt Lake City, Utah.

# PALEONTOLOGY EVALUATION SHEET

---

**PROJECT:** Dominion Wells BCU #6-23H

**LOCATION:** Fifteen miles south of Ouray, Utah. Section 23, 2005' FNL 2158' FWL, T11S, R20E, Uintah County, Utah.

**OWNERSHIP:** PRIV[ ] STATE[ ] BLM[ X ] USFS[ ] NPS[ ] IND[ ] MIL[ ] OTHER[ ]

**DATE:** May 9, 2007

**GEOLOGY/TOPOGRAPHY:** Canyon walls in surrounding area are of the Green River Formation, upper part, Upper Eocene age. The well pad sits on the southeast side of a canyon, part way up the slope. The location is mostly covered with shallow slope wash, except for the east side of the pit which has some Green River Formation exposures.

**PALEONTOLOGY SURVEY:** YES [ ] NO Survey [ ] PARTIAL Survey [ X ]  
Exposures of the Green River Formation were surveyed by a pedestrian survey.

**SURVEY RESULTS:** Invertebrate [ ] Plant [ ] Vertebrate [ ] Trace [ ] No Fossils Found [ X ]

**PALEONTOLOGY SENSITIVITY:** HIGH [ ] MEDIUM [ ] LOW [ X ] (PROJECT SPECIFIC)

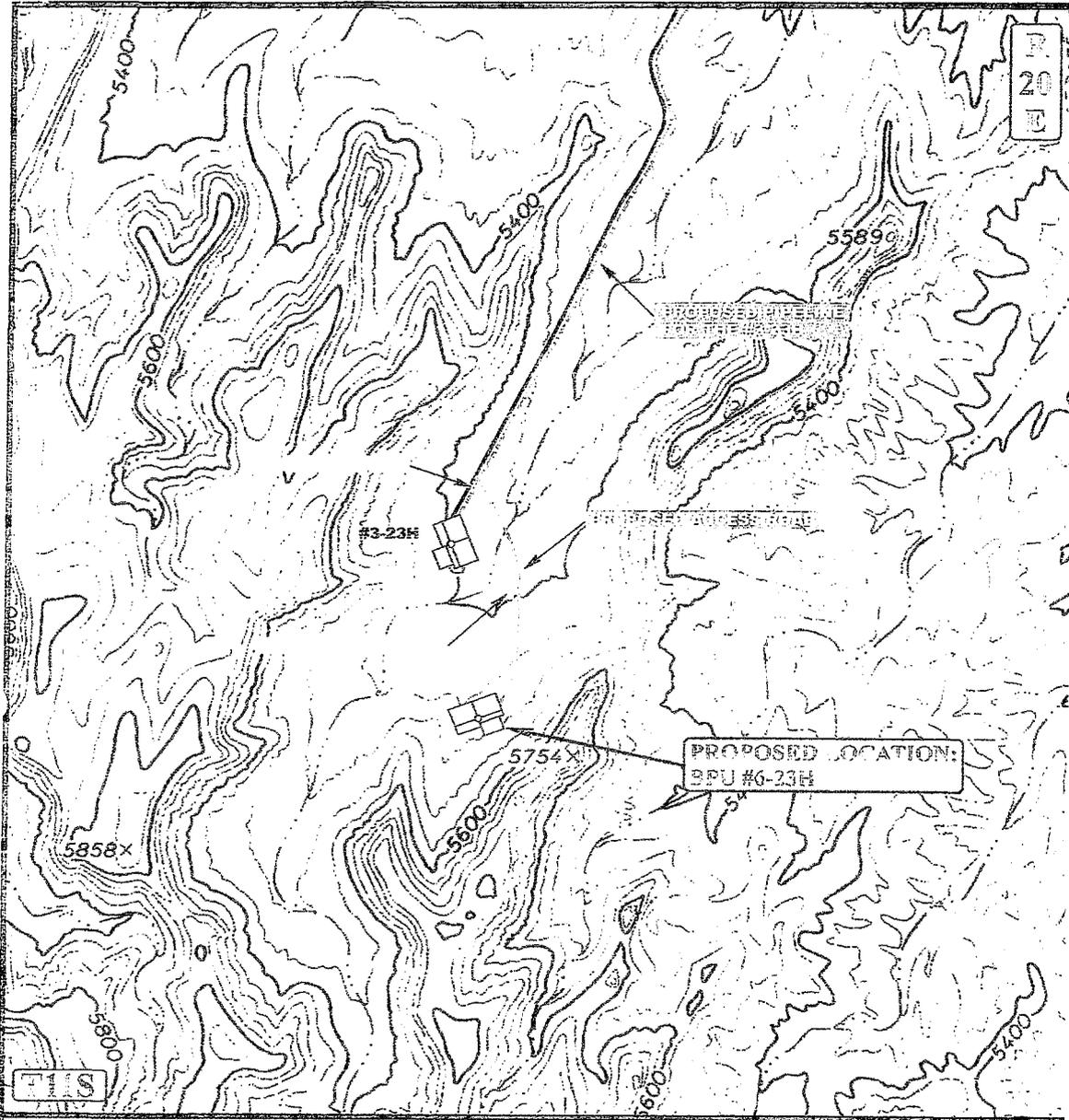
**MITIGATION RECOMMENDATIONS:** NONE [ X ] OTHER [ ] (SEE BELOW)

No recommendations being made.

There is always some potential for discovery of significant paleontological resources in the Green River Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, fish, etc.) are encountered during construction, work should stop in that area and a paleontologist should be contacted to evaluate the material discovered.

**PALEONTOLOGIST:** Alden H. Hamblin

*A.H. Hamblin Paleontological Consulting, 3793 N. Minersville Highway, Cedar City, Utah 84720 (435) 867-8355  
Utah State Paleontological Permit # 04-339, BLM paleontological Resources Permit # UT-S-05-02,  
Ute Tribe Access Permits – 03/31/07 & 09/30/07. Utah Professional Geologist License – 5223011-2250.*



**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

**DOMINION EXPLR. & PROD., INC.**

BPU #6-23H  
 SECTION 23, T11S, R20E, S.L.R.&M.  
 2005' FNL 2158' FWL

Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

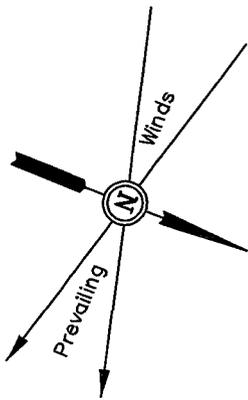
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: L.K. REVISED: 00-00-00

**XTO ENERGY, INC.**

**LOCATION LAYOUT FOR**

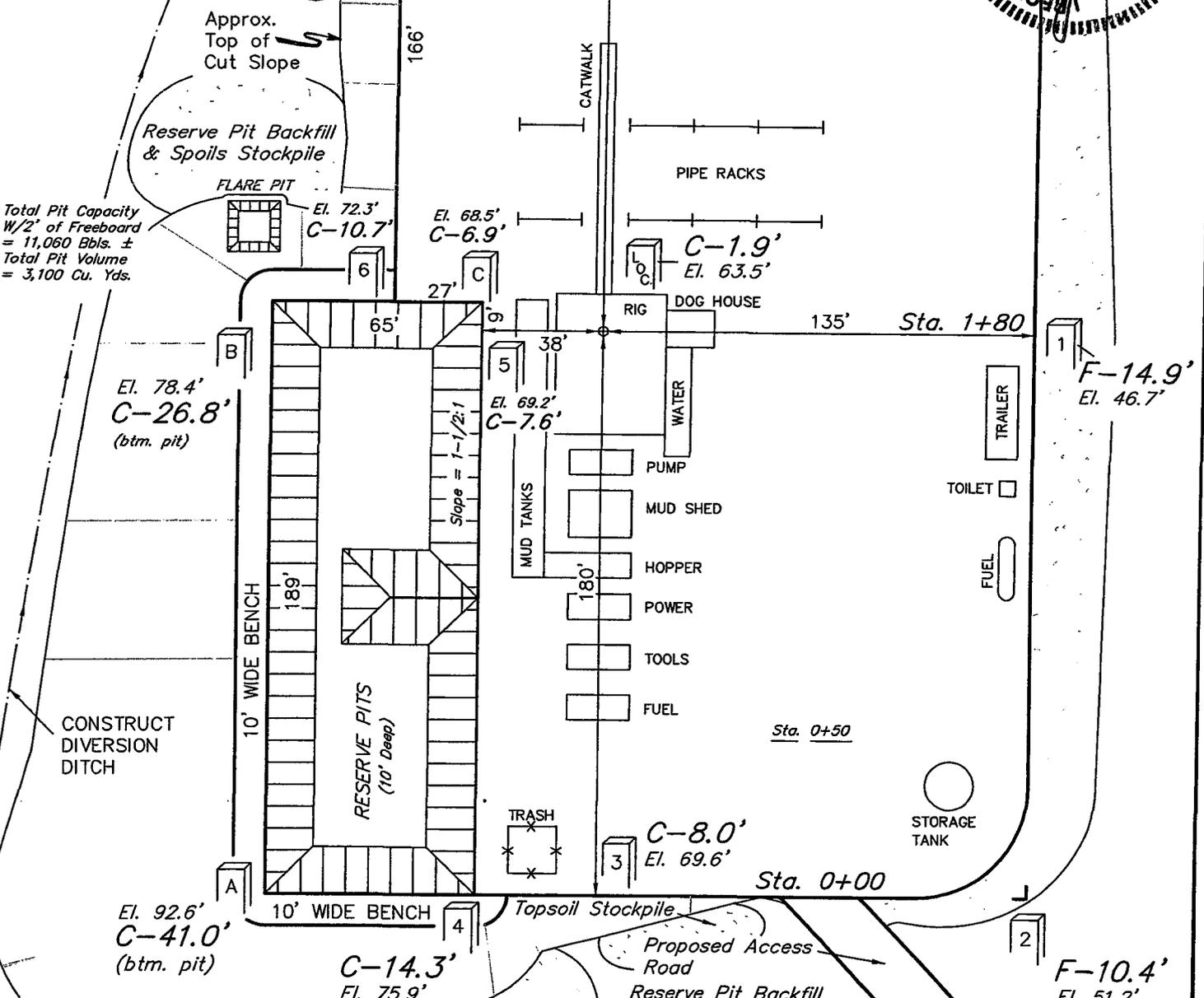
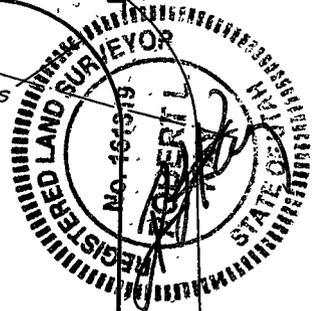
**BPU #6-23H**  
**SECTION 23, T11S, R20E, S.L.B.&M.**  
**2005' FNL 2158' FWL**



Approx.  
 Toe of  
 Fill Slope

**F-10.2'**  
 El. 51.4'

SCALE: 1" = 50'  
 DATE: 04-12-07  
 Drawn By: S.L.  
 Revised 3-25-08 D.P.



Total Pit Capacity  
 W/2' of Freeboard  
 = 11,060 Bbls. ±  
 Total Pit Volume  
 = 3,100 Cu. Yds.

Elev. Ungraded Ground at Location Stake = 5463.5'  
 Elev. Graded Ground at Location Stake = 5461.6'

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

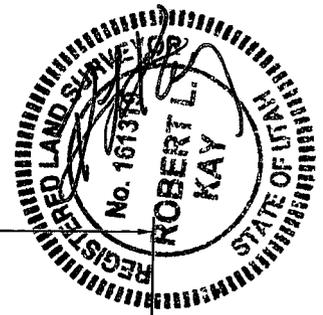
# XTO ENERGY, INC.

## TYPICAL CROSS SECTIONS FOR

BPU #6-23H

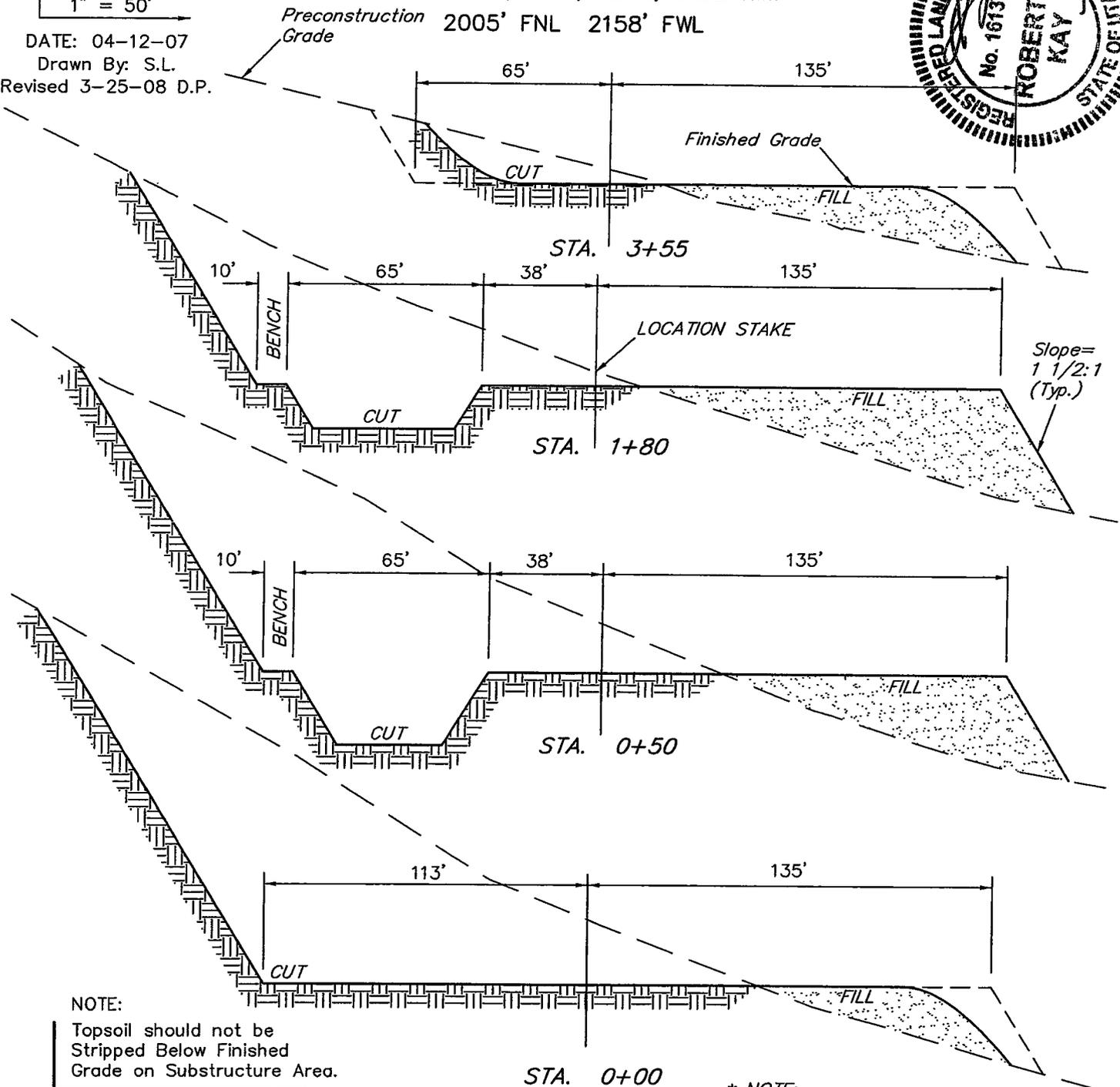
SECTION 23, T11S, R20E, S.L.B.&M.

2005' FNL 2158' FWL



1" = 20'  
X-Section Scale  
1" = 50'

DATE: 04-12-07  
Drawn By: S.L.  
Revised 3-25-08 D.P.



**NOTE:**

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

**CUT**

(6") Topsoil Stripping = 2,240 Cu. Yds.

Remaining Location = 27,570 Cu. Yds.

**TOTAL CUT = 29,810 CU.YDS.**

**FILL = 13,340 CU.YDS.**

EXCESS MATERIAL = 16,470 Cu. Yds.

Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,790 Cu. Yds.

EXCESS UNBALANCE (After Interim Rehabilitation) = 12,680 Cu. Yds.

**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**XTO ENERGY, INC.**  
**BPU #6-23H**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 23, T11S, R20E, S.L.B.&M.

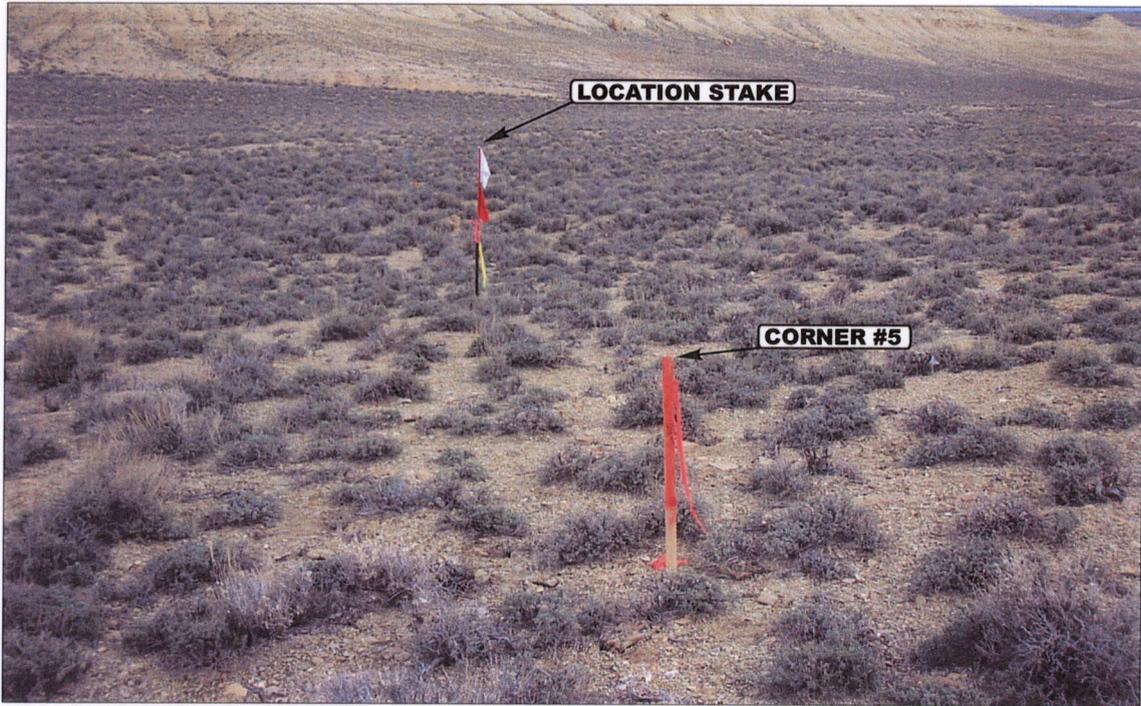


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

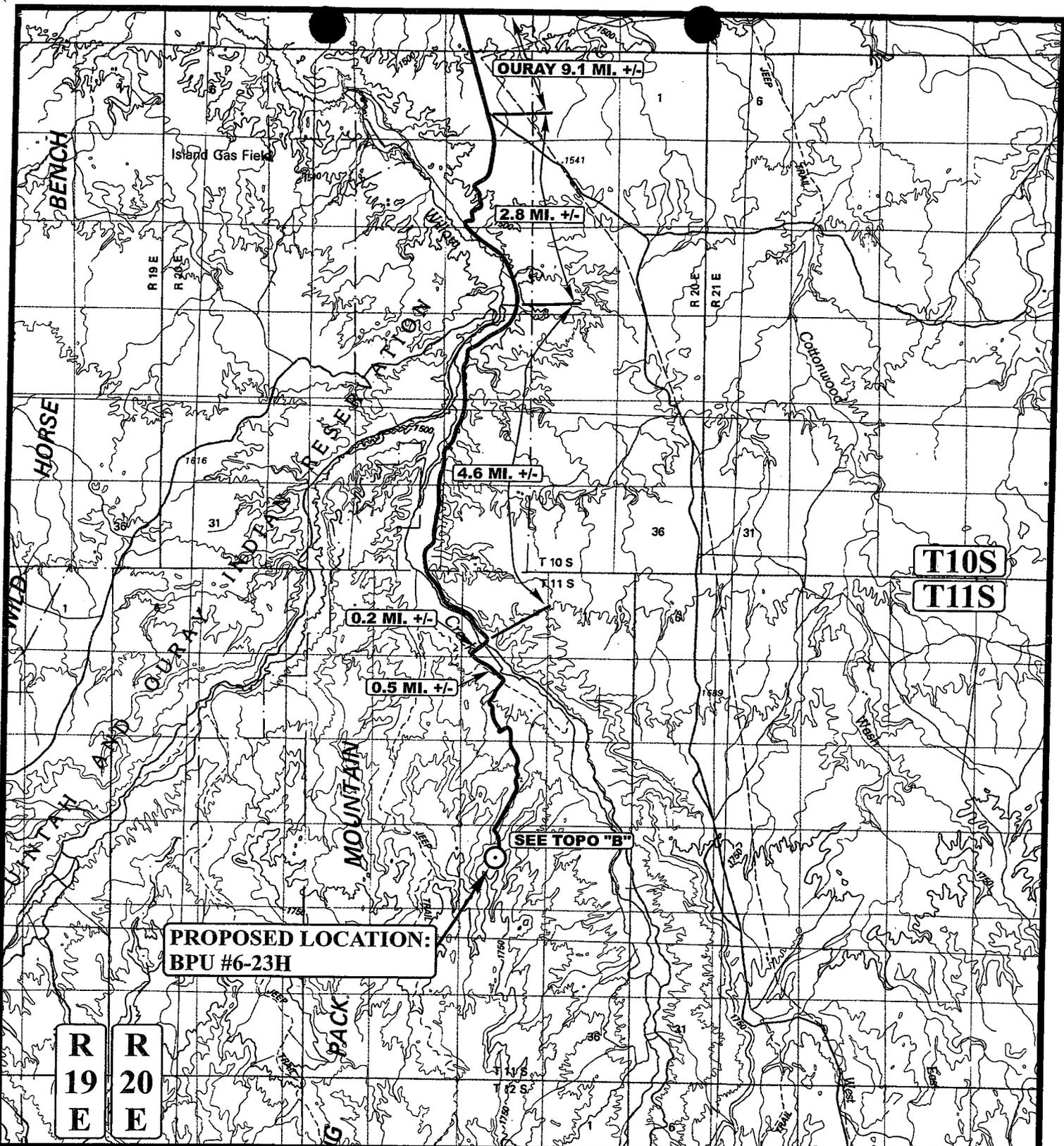
CAMERA ANGLE: SOUTHERLY



- Since 1964 -

**U**  
**E**  
**L**  
**S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 435-789-1017 uels@uelsinc.com

<b>LOCATION PHOTOS</b>			<b>04</b>	<b>05</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: J.R.	DRAWN BY: L.K.	REV: 3-25-08	G.L.			



**PROPOSED LOCATION:  
BPU #6-23H**

**R 19 E**  
**R 20 E**

**T10S**  
**T11S**

**LEGEND:**

○ PROPOSED LOCATION



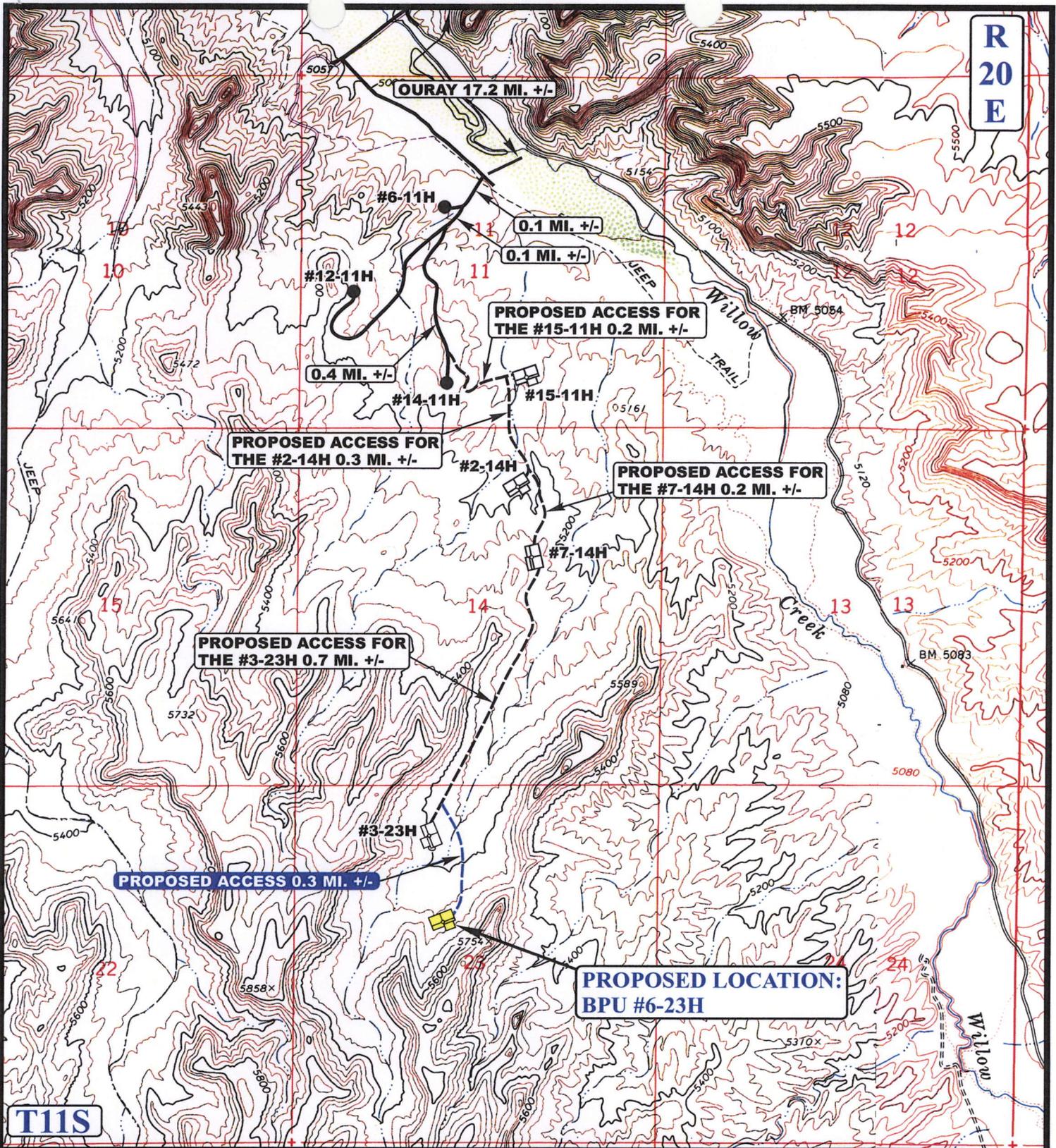
**XTO ENERGY, INC.**

**BPU #6-23H**  
**SECTION 23, T11S, R20E, S.L.B.&M.**  
**2005' FNL 2158' FWL**

**U&L S**  
**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** **04 05 07**  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: L.K. REV: 3-25-08 GL.





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

**XTO ENERGY, INC.**

**BPU #6-23H**  
**SECTION 23, T11S, R20E, S.L.B.&M.**  
**2005' FNL 2158' FWL**

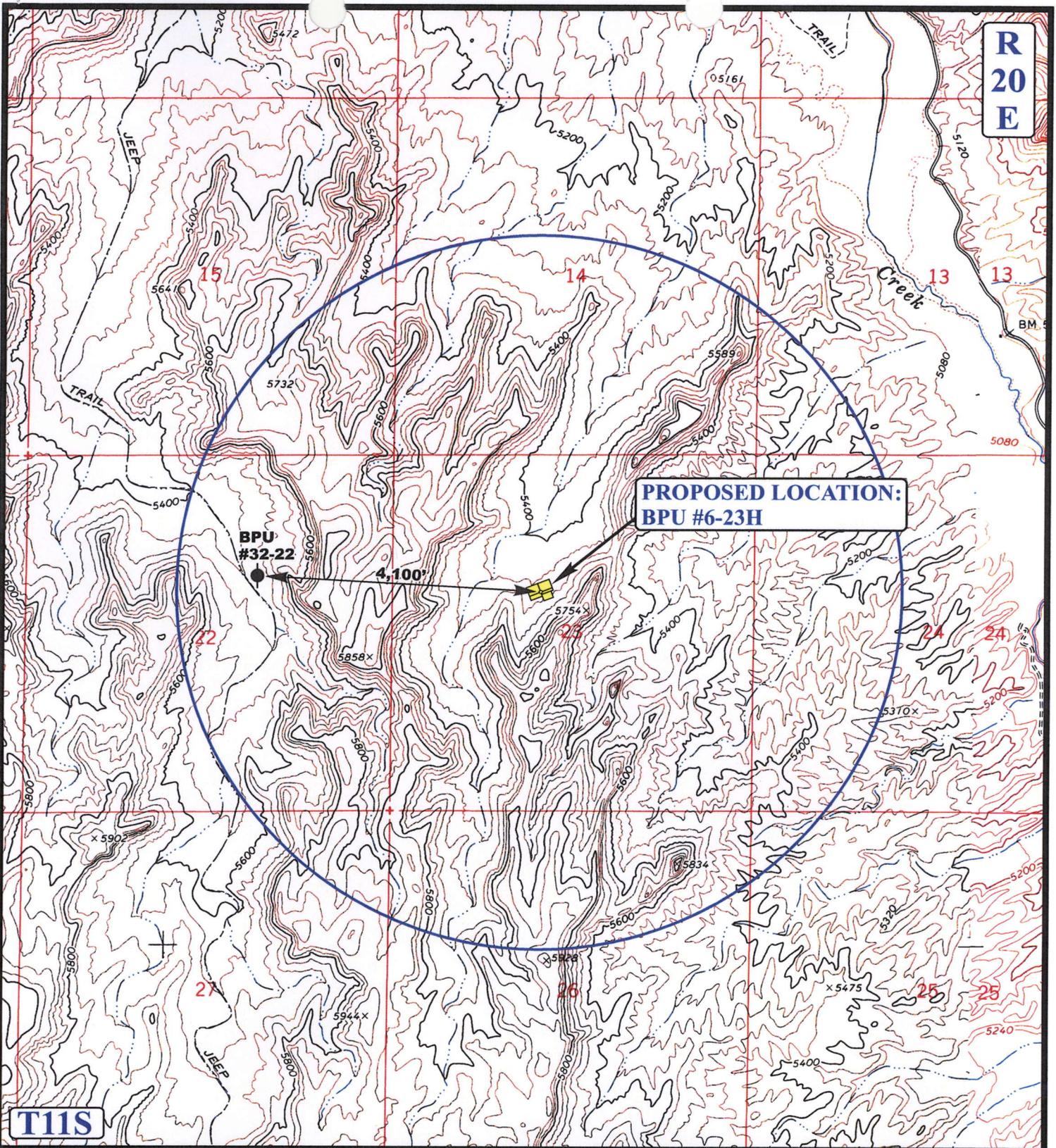


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** **04 05 07**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: L.K. REV: 3-25-08 GL.





**R  
20  
E**

**PROPOSED LOCATION:  
BPU #6-23H**

**BPU  
#32-22**

**4,100'**

**T11S**

**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⬮ SHUT IN WELLS
- ⊗ WATER WELLS
- ⬮ ABANDONED WELLS
- ⬮ TEMPORARILY ABANDONED

**XTO ENERGY, INC.**

**BPU #6-23H  
SECTION 23, T11S, R20E, S.L.B.&M.  
2005' FNL 2158' FWL**

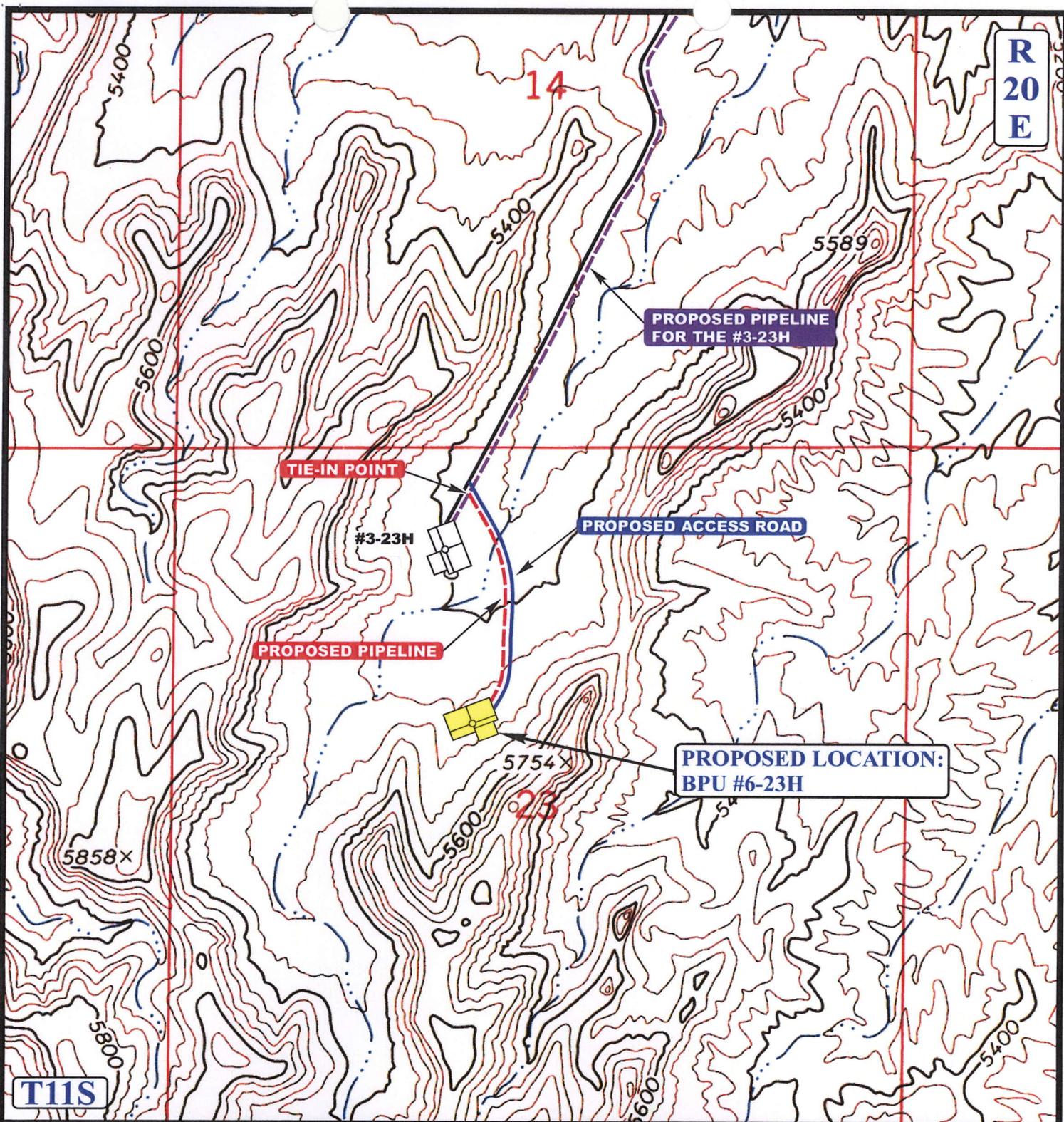


**Uintah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC MAP** **04 05 07**  
MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: L.K. REV: 3-25-08 GL.

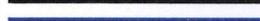


R  
20  
E



**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,634' +/-**

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED PIPELINE (SERVICING OTHER WELLS)

**XTO ENERGY, INC.**

**BPU #6-23H**  
**SECTION 23, T11S, R20E, S.L.B.&M.**  
**2005' FNL 2158' FWL**

**UEIS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

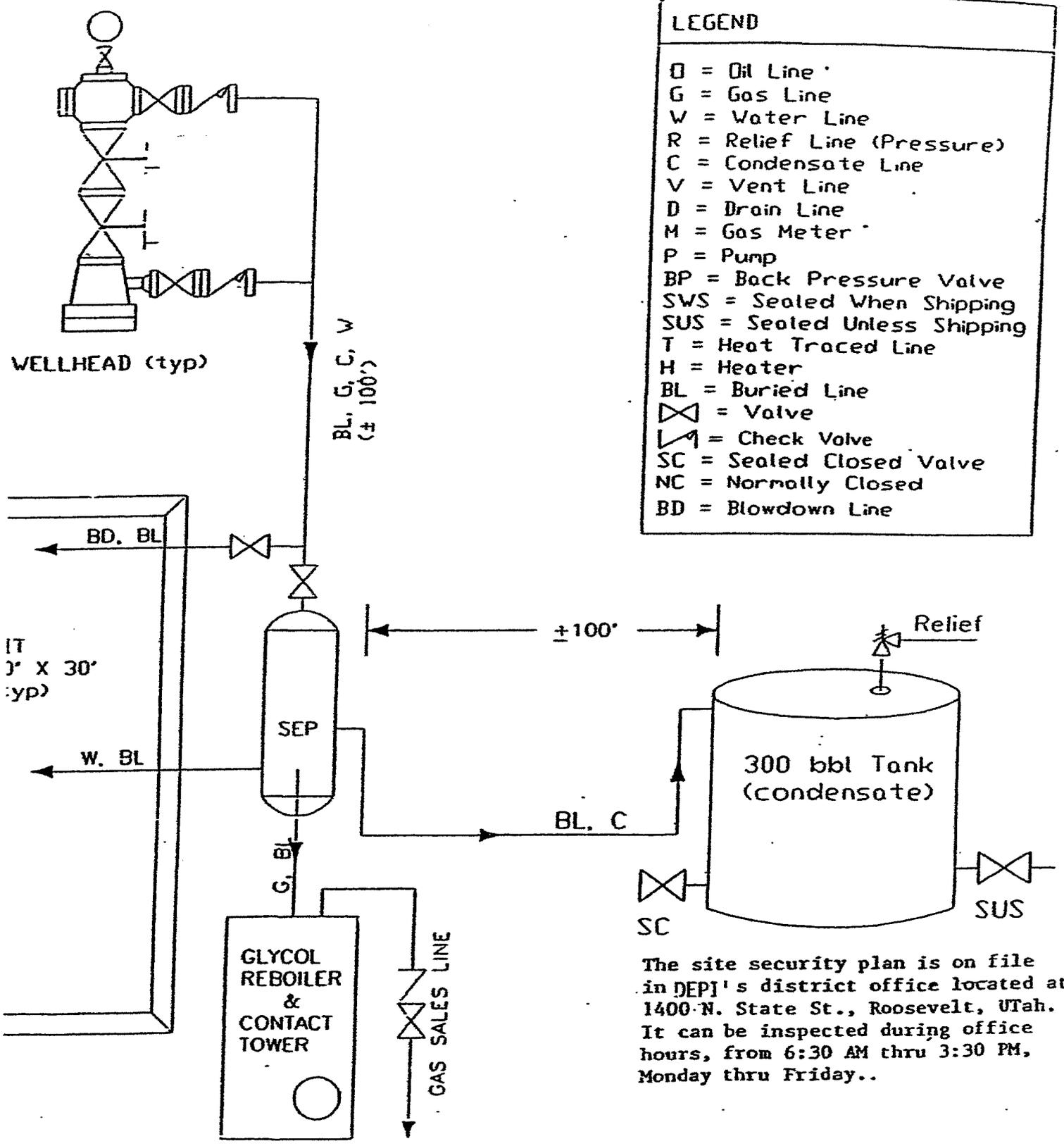


**TOPOGRAPHIC MAP** 04 05 07  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: L.K. REV: 3-25-08 GL. **D TOPO**

**XTO ENERGY, INC.**  
**BPU #6-23H**  
**SECTION 23, T11S, R20E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 4.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #15-11H TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #2-14H TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #7-14H TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE 3-23H TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.5 MILES.



**LEGEND**

- O = Oil Line
- G = Gas Line
- W = Water Line
- R = Relief Line (Pressure)
- C = Condensate Line
- V = Vent Line
- D = Drain Line
- M = Gas Meter
- P = Pump
- BP = Back Pressure Valve
- SWS = Sealed When Shipping
- SUS = Sealed Unless Shipping
- T = Heat Traced Line
- H = Heater
- BL = Buried Line
- ⊗ = Valve
- ↗ = Check Valve
- SC = Sealed Closed Valve
- NC = Normally Closed
- BD = Blowdown Line

The site security plan is on file in DEPI's district office located at 1400 N. State St., Roosevelt, Utah. It can be inspected during office hours, from 6:30 AM thru 3:30 PM, Monday thru Friday..

**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 04/10/2008

API NO. ASSIGNED: 43-047-40009

WELL NAME: BPU 6-23H  
 OPERATOR: XTO ENERGY INC ( N2615 )  
 CONTACT: DON HAMILTON

PHONE NUMBER: 435-722-4521

PROPOSED LOCATION:  
 SENW 23 110S 200E  
 SURFACE: 2005 FNL 2158 FWL  
 BOTTOM: 2005 FNL 2158 FWL  
 COUNTY: UINTAH  
 LATITUDE: 39.84771 LONGITUDE: -109.6475  
 UTM SURF EASTINGS: 615714 NORTHINGS: 4411520  
 FIELD NAME: WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76267  
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

Plat

Bond: Fed[1] Ind[] Sta[] Fee[]  
 (No. UTB-000138 )

Potash (Y/N)

Oil Shale 190-5 (B) or 190-3 or 190-13

Water Permit  
 (No. 43-10991 )

RDCC Review (Y/N)  
 (Date: \_\_\_\_\_ )

Fee Surf Agreement (Y/N)

Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: BIG PACK *BU*

R649-3-2. General  
 Siting: 460 From Qtr/Qtr & 920' Between Wells

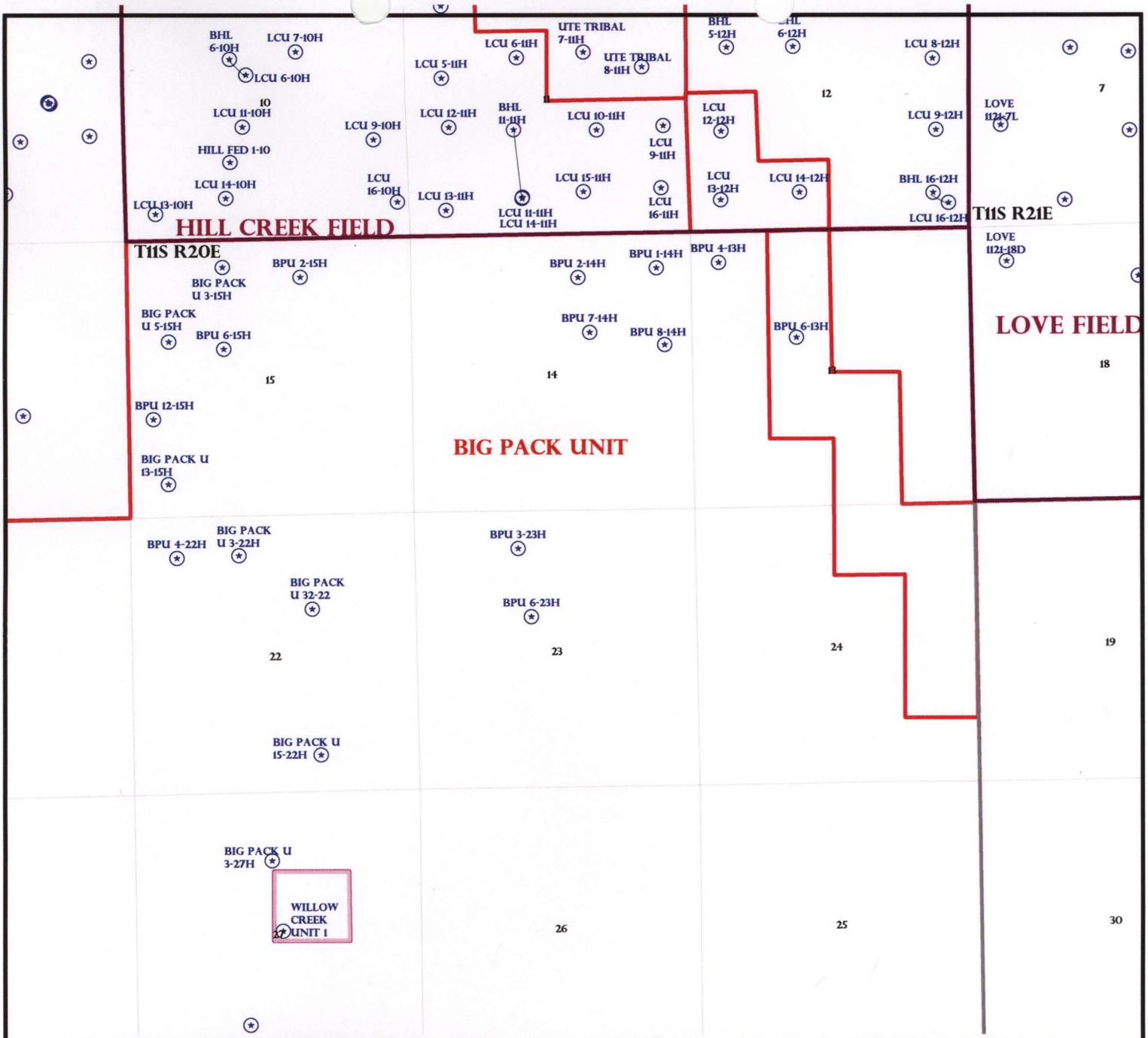
\_\_\_ R649-3-3. Exception

\_\_\_ Drilling Unit  
 Board Cause No: \_\_\_\_\_  
 Eff Date: \_\_\_\_\_  
 Siting: \_\_\_\_\_

\_\_\_ R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_  
*1. Reduct Approval*  
*2. Spacing Dir*  
 \_\_\_\_\_  
 \_\_\_\_\_



OPERATOR: XTO ENERGY INC (N2615)  
 SEC: 22,23 T.11S R. 20E  
 FIELD: WILDCAT (001)  
 COUNTY: UINTAH  
 SPACING: R649-3-2 / GENERAL SITING

- Field Status**
- ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - PROPOSED
  - STORAGE
  - TERMINATED

- Unit Status**
- EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PENDING
  - PI OIL
  - PP GAS
  - PP GEOTHERML
  - PP OIL
  - SECONDARY
  - TERMINATED

- Wells Status**
- GAS INJECTION
  - GAS STORAGE
  - LOCATION ABANDONED
  - NEW LOCATION
  - PLUGGED & ABANDONED
  - PRODUCING GAS
  - PRODUCING OIL
  - SHUT-IN GAS
  - SHUT-IN OIL
  - TEMP. ABANDONED
  - TEST WELL
  - WATER INJECTION
  - WATER SUPPLY
  - WATER DISPOSAL
  - DRILLING



PREPARED BY: DIANA MASON  
 DATE: 10-APRIL-2008



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

**State of Utah**  
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

**Division of Oil, Gas and Mining**

JOHN R. BAZA  
Division Director

April 14, 2008

XTO Energy, Inc.  
382 Road 3100  
Aztec, NM 87410

Re: BPU 6-23H Well, 2005' FNL, 2158' FWL, SE NW, Sec. 23, T. 11 South, R. 20 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40009.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office

Operator: XTO Energy, Inc.  
Well Name & Number BPU 6-23H  
API Number: 43-047-40009  
Lease: UTU-76267

Location: SE NW                      Sec. 23                      T. 11 South                      R. 20 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office      (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

RECEIVED

Form 3160-3  
(February 2005)

APR 08 2008

FORM APPROVED  
OMB No. 1004-0137  
Expires March 31, 2007

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU-76267

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

1a. Type of work:  DRILL  REENTER

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

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

8. Lease Name and Well No.  
BPU 6-23H

2. Name of Operator  
XTO Energy, Inc.

9. API Well No.  
43 OAT 40009

3a. Address PO Box 1360; 978 North Crescent  
Roosevelt, UT 84066

3b. Phone No. (include area code)  
435-722-4521

10. Field and Pool, or Exploratory  
undesignated

4. Location of Well (Report location clearly and in accordance with any State requirements \*)  
At surface 2,005' FNL & 2,158' FWL, SE/4 NW/4,  
At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area  
Section 23, T11S, R20E, SLB&M

14. Distance in miles and direction from nearest town or post office\*  
16.70 miles south of Ouray, Utah

12. County or Parish  
Uintah

13. State  
UT

15. Distance from proposed\*  
location to nearest  
property or lease line, ft.  
(Also to nearest drig. unit line, if any) 467'

16. No. of acres in lease  
2,200 acres

17. Spacing Unit dedicated to this well  
40 acres

18. Distance from proposed location\*  
to nearest well, drilling, completed,  
applied for, on this lease, ft. 1,350'

19. Proposed Depth  
9,025'

20. BLM/BIA Bond No. on file  
UTB-000138

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5,464' GR

22. Approximate date work will start\*  
06/15/2008

23. Estimated duration  
14 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 *Don Hamilton*

Name (Printed/Typed)  
Don Hamilton

Date  
04/07/2008

Title  
Agent for XTO Energy, Inc.

Approved by *[Signature]*

Name (Printed/Typed)  
Jenny Kenaka

Date  
7-2-2008

Title  
Assistant Field Manager  
Lands & Mineral Resources

Office  
VERNAL FIELD OFFICE

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.

CONDITIONS OF APPROVAL 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.

\*(Instructions on page 2)

NOTICE OF APPROVAL

UDOGM

RECEIVED

JUL 07 2008

DIV. OF OIL, GAS & MINING

07PP1916A  
NOS 4/30/07



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

**Company:** XTO Energy, Inc.  
**Well No:** BPU 6-23H  
**API No:** 43-047-40009

**Location:** SENW, Sec. 23, T11S, R20E  
**Lease No:** UTU-76267  
**Agreement:** Big Pack Unit

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

**Fax: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)***

***Surface COAs:***

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

***CONDITIONS OF APPROVAL (COAs) XTO BPU 2-14H, 7-14H, 3-23H, 6-23H  
EA UT-080-08-515***

Surface Conditions of Approval or monitoring are listed in the Surface Use Plan of the APDs

- An Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines will be completed. At a minimum, this will include the Best Management Practice of the reshaping of the pad to the original contour to the extent possible; the re-spreading of the top soil up to the rig anchor points; and, reseeding the area using appropriate reclamation methods.
- The interim seed mix for reclamation will be:

Bottlebrush Squirrel tail grass	<i>Sitanion hystrix</i>	2 lbs. /acre
Needle and Threadgrass	<i>Stipa comata</i>	2 lbs. /acre
Siberian wheatgrass	<i>Agropyron sibericum</i>	2 lbs. /acre
Globe mallow	<i>Sphaeralcea coccinea</i>	0.5 lbs. /acre

<b>Well Number</b>	<b>Other Conditions of Approval agreed to at the onsite</b>
BPU 2-14H	Rip rap from corner 2 past corner B. Install a 36 inch culvert at the access. Double felt the pit with a 16 mill liner.
BPU 7-14H	
BPU 3-23H	The access road will need several low water crossings. Round corner 2 by 20 feet, and rip rap the corner.
BPU 6-23H	Round corner 9 by 25 feet. Rip rap and ditch from corner 8 around corner 9.

- Water right numbers 49-2158 and 49-2262 will take water from the Green River and will require the following mitigation.
  1. The best method to avoid entrainment is to pump from an off-channel location – one that does not connect to the river during high spring flows. An infiltration gallery constructed in a BLM and Service approved location is best.
  2. If the pump head is located in the river channel where larval fish are known to occur, the following measures apply:
    - a. do not situate the pump in a low-flow or no-flow area as these habitats tend to concentrate larval fish;
    - b. limit the amount of pumping, to the greatest extent possible, during that period of the year when larval fish may be present; and
    - c. limit the amount of pumping, to the greatest extent possible, during the pre-dawn hours as larval drift studies indicate that this is a period of greatest daily activity.
  3. Screen all pump intakes with ¼” mesh material.
  4. Report any fish impinged on the intake screen to the Service (801.975.3330) and the Utah Division of Wildlife Resources:
- Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil re-spread over the surface; and, the surface re-vegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.

***DOWNHOLE CONDITIONS OF APPROVAL COAs:***

**SITE SPECIFIC DOWNHOLE COAs:**

- A surface casing shoe integrity test shall be performed.
- The production casing cement shall be a minimum of 200 feet above the surface casing shoe. A CBL shall be run from TD to top of cement and a field copy shall be sent to this field office.

The Gamma Ray Log shall be run from TD to surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**UTU-76267**

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
**N/A**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:  
**Big Pack Unit**

1. TYPE OF WELL      OIL WELL       GAS WELL       OTHER \_\_\_\_\_

8. WELL NAME and NUMBER:  
**BPU 6-23H**

2. NAME OF OPERATOR:  
**XTO ENERGY INC.**

9. API NUMBER:  
**4304740009**

3. ADDRESS OF OPERATOR:  
**382 CR 3100**      CITY **AZTEC**      STATE **NM**      ZIP **87410**      PHONE NUMBER: **(505) 333-3100**

10. FIELD AND POOL, OR WILDCAT:  
**Wildcat**

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: **2,005 FNL x 2,158 FWL**

COUNTY: **Carbon**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SENW <sup>2</sup>/<sub>3</sub> 11S 20E S**

STATE: **UTAH**

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>Permit Extension</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy Inc. hereby requests a one year extension of the state permit for the referenced well.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

Date: 03-30-09  
By: [Signature]

COPY SENT TO OPERATOR

Date: 3.31.2009

Initials: KS

NAME (PLEASE PRINT) Eden Fine

TITLE Regulatory Clerk

SIGNATURE [Signature]

DATE 3/24/2009

(This space for State use only)

**RECEIVED  
MAR 30 2009**



**Application for Permit to Drill  
Request for Permit Extension  
Validation**

(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304740009  
**Well Name:** BPU 6-23H  
**Location:** 2,005 FNL x 2,158 FWL  
**Company Permit Issued to:** XTO Energy  
**Date Original Permit Issued:** 4/14/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes  No

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes  No

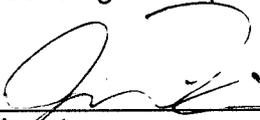
Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes  No

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes  No

Has the approved source of water for drilling changed? Yes  No

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes  No

Is bonding still in place, which covers this proposed well? Yes  No

  
\_\_\_\_\_  
Signature

3/24/2009  
\_\_\_\_\_  
Date

Title: Eden Fine - Regulatory Clerk

Representing: XTO Energy

**RECEIVED**  
**MAR 30 2009**  
DIV. OF OIL, GAS & MINING

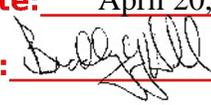
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76267
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> BIG PACK
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BPU 6-23H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047400090000
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3159 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2005 FNL 2158 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 23 Township: 11.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

**11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/30/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 XTO Energy hereby requests a one year extension on the State permit for the referenced well.

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: April 20, 2010  
 By: 

<b>NAME (PLEASE PRINT)</b> Eden Fine	<b>PHONE NUMBER</b> 505 333-3664	<b>TITLE</b> Permitting Clerk
<b>SIGNATURE</b> N/A		<b>DATE</b> 4/6/2010



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047400090000**

**API:** 43047400090000

**Well Name:** BPU 6-23H

**Location:** 2005 FNL 2158 FWL QTR SENW SEC 23 TWNP 110S RNG 200E MER S

**Company Permit Issued to:** XTO ENERGY INC

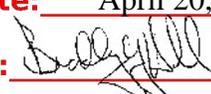
**Date Original Permit Issued:** 4/14/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Eden Fine                      **Date:** 4/6/2010  
**Title:** Permitting Clerk **Representing:** XTO ENERGY INC

**Date:** April 20, 2010  
**By:** 

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76267
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b> BIG PACK
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BPU 6-23H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047400090000
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3159 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2005 FNL 2158 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 23 Township: 11.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> HILL CREEK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/5/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> <b>APD EXTENSION</b> OTHER: <input style="width: 50px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 XTO Energy hereby requests a one (1) year extension of the State APD for the referenced well.

**Approved by the Utah Division of Oil, Gas and Mining**

**Date:** 04/07/2011

**By:**

<b>NAME (PLEASE PRINT)</b> Krista Wilson	<b>PHONE NUMBER</b> 505 333-3647	<b>TITLE</b> Permitting Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2011	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047400090000**

**API:** 43047400090000

**Well Name:** BPU 6-23H

**Location:** 2005 FNL 2158 FWL QTR SENW SEC 23 TWNP 110S RNG 200E MER S

**Company Permit Issued to:** XTO ENERGY INC

**Date Original Permit Issued:** 4/14/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

**Signature:** Krista Wilson

**Date:** 4/5/2011

**Title:** Permitting Tech **Representing:** XTO ENERGY INC



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Green River District-Vernal Field Office

170 South 500 East

Vernal, UT 84078

(435) 781-4400 Fax: (435) 781-4410

<http://www.blm.gov/ut/st/en/fo/vernal.html>



**APR 08 2011**

IN REPLY REFER TO:  
3160 (UTG011)

Krista Wilson  
XTO Energy, Inc.  
San Juan Division  
382 CR 3100  
Aztec, NM 87410

43 047 40009

Re: Return Notice of Staking (NOS)  
Well No. BPU 6-23H  
SENW, Sec. 23, T11S, R20E  
Uintah County, Utah  
Lease No. UTU-76267  
Big Pack Unit

Dear Ms. Wilson:

The Notice of Staking (NOS) for the above-referenced well site received in this office on March 14, 2011 is being returned. An extension request of the original APD was received on June 28, 2010. The request was reviewed and the extension request was approved on March 25, 2011. The operator's copy of the approved Sundry Notice is enclosed. The extension and original APD shall expire on July 2, 2012, therefore; the new Notice of Staking is not needed.

If you have any questions regarding APD processing, please contact Cindy Severson at (435) 781-4455.

Sincerely,

Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

Enclosures

cc: UDOGM  
Ken Secrest

**RECEIVED**

**APR 13 2011**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

JUN 28 2010

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.*

**BLM**

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. UTU-76267
2. Name of Operator XTO ENERGY INC.		6. If Indian, Allottee or Tribe Name N/A
3a. Address 382 CR 3100 AZTEC, NM 87410	3b. Phone No. (include area code) 505-333-3100	7. If Unit or CA/Agreement, Name and/or No. BIG PACK UNIT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2005' FNL x 2158' FWL SENW SEC 23-T11S-R20E		8. Well Name and No. BPU 6-23H
		9. API Well No. 43-047-40009
		10. Field and Pool, or Exploratory Area UNDESIGNATED
		11. County or Parish, State UINTAH UTAH

12. CHECK 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>EXTEND APD</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 recompleat 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 shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

XTO Energy Inc., would like to request an extension on the existing APD.

~~RECEIVED~~  
SEP 13 2010  
BLM VERNAL, UT

14. I hereby certify that the foregoing is true and correct Name (Printed/Typed) MALIA VILLERS	Title PERMITTING TECH.
Signature <i>Malia Villers</i>	Date 9/9/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by <i>[Signature]</i>	Title Assistant Field Manager Lands & Mineral Resources	Date MAR 25 2011
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 VERNAL FIELD OFFICE



# CONDITIONS OF APPROVAL

## XTO Energy Inc.

### Notice of Intent APD Extension

**Lease:** UTU-76267  
**Well:** BPU 6-23H  
**Location:** SENW Sec 23-T11S-R20E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 7/2/12.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-4430.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76267	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b> BIG PACK	
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> BPU 6-23H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047400090000
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3145 Ext
<b>9. FIELD and POOL or WILDCAT:</b> HILL CREEK	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2005 FNL 2158 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 23 Township: 11.0S Range: 20.0E Meridian: S	
<b>COUNTY:</b> UINTAH	
<b>STATE:</b> UTAH	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/30/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

XTO Energy requests a one (1) year extension of the State APD for the referenced well.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** April 09, 2012

**By:**

<b>NAME (PLEASE PRINT)</b> Richard L. Redus	<b>PHONE NUMBER</b> 303 397-3712	<b>TITLE</b> Regulatory
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2012	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047400090000**

API: 43047400090000

Well Name: BPU 6-23H

Location: 2005 FNL 2158 FWL QTR SENW SEC 23 TWP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 4/14/2008

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Richard L. Redus

Date: 4/5/2012

Title: Regulatory

Representing: XTO ENERGY INC



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

May 16, 2013

Rick Redus  
XTO Energy Inc.  
P.O. Box 6501  
Englewood, CO 80155

43 047 40009  
BPU 6-23 H  
11S 20E 23

Re: APDs Rescinded for XTO Energy Inc., Uintah County

Dear Mr. Redus:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective May 16, 2013.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal

43-047-37997	LCU 9-10H
43-047-38069	LCU 8-35F
43-047-38070	LCU 12-35F
43-047-38071	LCU 15-35F
43-047-38072	LCU 16-35F
43-047-38073	LCU 1-1H
43-047-38074	LCU 9-9H
43-047-38075	LCU 7-9H
43-047-39160	LCU 4-3H
43-047-39220	LCU 9-35F
43-047-39221	LCU 7-35F
43-047-39224	LCU 14-10H
43-047-39225	LCU 3-10H
43-047-39999	BPU 4-13H
43-047-40001	BPU 1-14H
43-047-40002	BPU 7-14H
43-047-40003	BPU 8-14H
43-047-40004	BPU 2-15H
43-047-40005	BPU 6-15H
43-047-40006	BPU 12-15H
43-047-40007	BPU 4-22H
→ 43-047-40009	BPU 6-23H



# United States Department of the Interior



## BUREAU OF LAND MANAGEMENT

Green River District

Vernal Field Office

170 South 500 East

Vernal, UT 84078

<http://www.blm.gov/ut/st/en/fo/vernal.html>

June 4, 2013

IN REPLY REFER TO:  
3160 (UTG011)

Rick Redus  
XTO Energy, Inc.  
PO Box 6501  
Englewood, CO 80155

43 0A7 40009

**RECEIVED**  
**JUN 12 2013**  
**DIV. OF OIL, GAS & MINING**

Re: Notice of Expiration  
Well No. BPU 6-23H  
SENW, Sec. 23, T11S, R20E  
Uintah County, Utah  
Lease No. UTU-76267  
Big Pack Unit

Dear Mr. Redus:

The Application for Permit to Drill (APD) for the above-referenced well was approved on July 2, 2008. A one (1) year extension of the original APD was requested. The request was reviewed and the extension approved until March 25, 2011. According to our records, no known activity has transpired at the approved location. In view of the foregoing, this office is notifying you that the approval of the referenced application has expired. If you intend to drill at this location in the future, a new Application for Permit to Drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of this well is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Robin R. Hansen at (435) 781-3428.

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka  
Assistant Field Manager  
Lands & Mineral Resources

cc: UDOGM

bcc: Well File  
I&E Asst.