

November 7, 2007

Mrs. Diana Mason  
State of Utah  
Division of Oil Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—XTO Energy, Inc.  
**LCU 9-36F** - 1879' FSL & 766' FEL, NE/4 SE/4,  
Section 36, T10S, R20E, SLB&M, Uintah County, Utah

Dear Diana;

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and one copy of the Application for Permit to Drill (APD) for the above referenced SITLA surface and mineral vertical well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of the unit boundary or any uncommitted tracts. 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: Fluid Mineral Group, BLM—Vernal Field Office  
Ken Secrest, XTO Energy, Inc.

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DIV. OF OIL, GAS & MINING

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

FORM 3

AMENDED REPORT   
(highlight changes)

<b>APPLICATION FOR PERMIT TO DRILL</b>			5. MINERAL LEASE NO: ML-47391	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: Little Canyon Unit	
2. NAME OF OPERATOR: XTO Energy, Inc.			9. WELL NAME and NUMBER: LCU 9-36F	
3. ADDRESS OF OPERATOR: P.O. Box 1360		CITY Roosevelt STATE UT ZIP 84066	PHONE NUMBER: (435) 722-4521	10. FIELD AND POOL, OR WILDCAT: <del>Undesignated</del> Natural Buttes
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1,879' FSL & 766' FEL, 619159X 39.901833 AT PROPOSED PRODUCING ZONE: 44175824 -109.606096			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 10S 20E S	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 13.42 miles southeast of Ouray, Utah			12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 766'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1,230'	19. PROPOSED DEPTH: 9,050	20. BOND DESCRIPTION: 104312 762		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5,346' ungraded ground	22. APPROXIMATE DATE WORK WILL START: 1/15/2008	23. ESTIMATED DURATION: 14 days		

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12-1/4"	9-5/8" J-55 ST 36#	2,200	see Drilling Plan
7-7/8"	5-1/2" N-80 LT 17#	9,050	see Drilling Plan

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER        | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Don Hamilton TITLE Agent for XTO Energy, Inc.  
SIGNATURE Don Hamilton DATE 11/7/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39783

Approved by the  
Utah Division of  
Oil, Gas and Mining

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DIV. OF OIL, GAS & MINING

(11/2001)

Date: 11/17/07  
By: [Signature]

**XTO ENERGY, INC.**

**T10S, R20E, S.L.B.&M.**

**R  
20  
E**

**R  
21  
E**

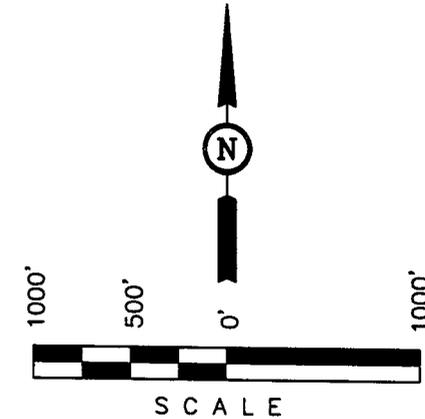
Well location, LCU #9-36F, located as shown in the NE 1/4 SE 1/4 of Section 36, T10S, R20E, S.L.B.&M., Uintah County Utah.

**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, UTAH 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.

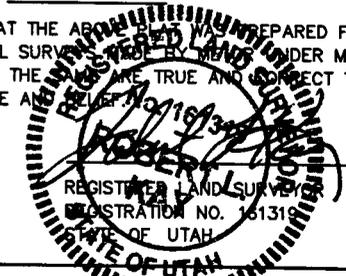
**BASIS OF BEARINGS**

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



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME AND UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AT THE DATE HEREIN SET FORTH.



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

SCALE 1" = 1000'	DATE SURVEYED: 09-13-07	DATE DRAWN: 09-18-07
PARTY B.B. K.D. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE XTO ENERGY, INC.	

1928 Brass Cap,  
0.7' High, Pile  
of Stones

S89°11'18"W - 2634.04' (Meas.)

S89°11'23"W - 2634.46' (Meas.)

1928 Brass Cap,  
2.5' High, Pile  
of Stones

1928 Brass Cap,  
1.2' High, Pile  
of Stones,  
Scattered Stone

N00°52'48"E - 2667.11' (Meas.)

N00°05'29"W  
1313.07' (Meas.)

Set Marked  
Stone

N00°15'47"W  
1430.27' (Meas.)

**36**

LCU #9-36F  
Elev. Ungraded Ground = 5346'

Brass Cap

S00°35'29"W - 2670.50' (Meas.)

S00°13'49"E - 2660.74' (Meas.)

1928 Brass Cap,  
0.2' High, Pile  
of Stones

766'

1879'

N89°58'47"E - 2683.80' (Meas.)

1928 Brass Cap,  
0.5' High, Large  
Pile of Stones

Set  
Marked  
Stone

**T10S**

1928 Brass  
Cap, 1.3'  
High, Pile  
of Stones

C.C.  
Set Marked  
Stone, Pile  
of Stones

N89°56'23"W  
1336.89'  
(Meas. To C.C.)

S89°47'10"W  
1340.06' (Meas.)

S89°55'32"W  
1332.01' (Meas.)

1928 Brass  
Cap, 1.2' High,  
Set Marked  
Stone, Pile of  
Stones

**T11S**

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

Sec. 1  
Sec. 6

(NAD 83)  
 LATITUDE = 39°54'06.49" (39.901803)  
 LONGITUDE = 109°36'24.37" (109.606769)  
 (NAD 27)  
 LATITUDE = 39°54'06.61" (39.901836)  
 LONGITUDE = 109°36'21.89" (109.606081)

# XTO ENERGY INC.

LCU 9-36F

APD Data

November 6, 2007

Location: 1879' FSL & 766' FEL, Sec. 36, T10S,R20E County: Uintah State: Utah

GREATEST PROJECTED TD: 9050' MD  
APPROX GR ELEV: 5346'

OBJECTIVE: Wasatch/Mesaverde  
Est KB ELEV: 5360' (14' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 2200'	2200' to 9050'
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 ±9050' 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'-9050'	9050'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.83	2.26	2.26

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 8-5/8" 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:

±362 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

12.8 ppg 1.92 ft<sup>3</sup>/sx

TAIL:

225 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

15.8 ppg 1.15 ft<sup>3</sup>/sx

**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 ±9050' in 7.875" hole.

LEAD:

±461 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 1963 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 (9050') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9050') to 2200'.

**6. FORMATION TOPS:**

FORMATION	Sub-Sea Elev. (@SHL)	TVD (@SHL)
Wasatch Tongue	1,638	3,727
Green River Tongue	1,300	4,065
Wasatch*	1,170	4,195
Chapita Wells*	440	4,925
Uteland Buttes	-753	6,118
Mesaverde*	-1,483	6,848
Castlegate	N/A	N/A
TD**	-3685	9050

\* Primary Objective

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

A.

<b>Formation</b>	<b>Expected Fluids</b>	<b>Well Depth Top</b>
Wasatch Tongue	Oil/Gas/Water	3,727
Green River Tongue	Oil/Gas/Water	4,065
Wasatch*	Gas/Water	4,195
Chapita Wells*	Gas/Water	4,925
Uteland Buttes	Gas/Water	6,118
Mesaverde*	Gas/Water	6,848
Castlegate	Gas/Water	N/A

- A. 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.
- B. There are no known potential sources of H<sub>2</sub>S.
- C. Expected bottom hole pressures are between 4100 psi and 4600 psi.

**8. BOP EQUIPMENT:**

Surface will not utilize a bop stack.

Intermediate hole will be drilled using a diverter stack with rotating head rated at 250 psi w.p.

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

### CONDITIONS OF APPROVAL

**Name of Operator:** XTO Energy, Inc.  
**Address:** P.O. Box 1360; 978 North Crescent  
Roosevelt, Utah 84066  
**Well Location:** LCU 9-36F  
1879' FSL & 766' FEL, NE/4 SE/4,  
Section 36, T10S, 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 is pending at this time.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 13.42 miles southeast of Ouray, UT.
- 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 Little Canyon 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 is not anticipated for the access road since access presently exists to the lease boundary.

2. New or Reconstructed Access Roads:

- a. From the existing LCU 10-36F an access is proposed trending east approximately 0.25 miles to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.
- b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.
- c. SITLA approval to construct and utilize the proposed access road is requested with this application.
- d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.

- e. No turnouts are proposed since the access road is only 0.25 miles long and adequate site distance exists in all directions.
- f. No low-water crossings and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- g. No surfacing material will come from federal or Indian lands.
- h. No gates or cattle guards are anticipated at this time.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. 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 for Oil and Gas Exploration and Development, (1989).
- k. 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 Desert Brown /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 west side of the well site and traverse 929' west to the existing LCU 10-36F pipeline corridor
- i. 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 75' wide disturbed pipeline corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction. A new buried pipeline corridor length of approximately 929' is associated with this well.
- j. An existing pipeline corridor upgrade is proposed from the existing LCU 10-36F location to the LCU compressor facility along the existing pipeline route.
- k. 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 single trench and within a 75' wide disturbed pipeline corridor. The use of the existing well site and access roads will facilitate the staging of the pipeline corridor upgrade. An upgrade to a 75' wide buried pipeline corridor of approximately 0.7 miles is associated with this application.
- l. The proposed pipeline and pipeline upgrade are contained within SITLA surface.
- m. 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 Attachment No. 3.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10447, Section 33, 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 south 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 west.
- c. The pad and road designs are consistent with SITLA specification
- d. A pre-construction meeting with responsible company representative, contractors, and the SITLA 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 Crested Wheat Grass (6 lbs / acre)
    - o Needle and Thread Grass (3 lbs / acre)
    - o Rice Grass (3 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 SITLA or the appropriate County Extension Office. On SITLA 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 SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.
- b. Mineral Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

- a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e-mail
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. AIA Archaeological 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 AIA Archaeological.
- 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.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's SITLA bond 104312-762. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 7<sup>th</sup> day of November, 2007.

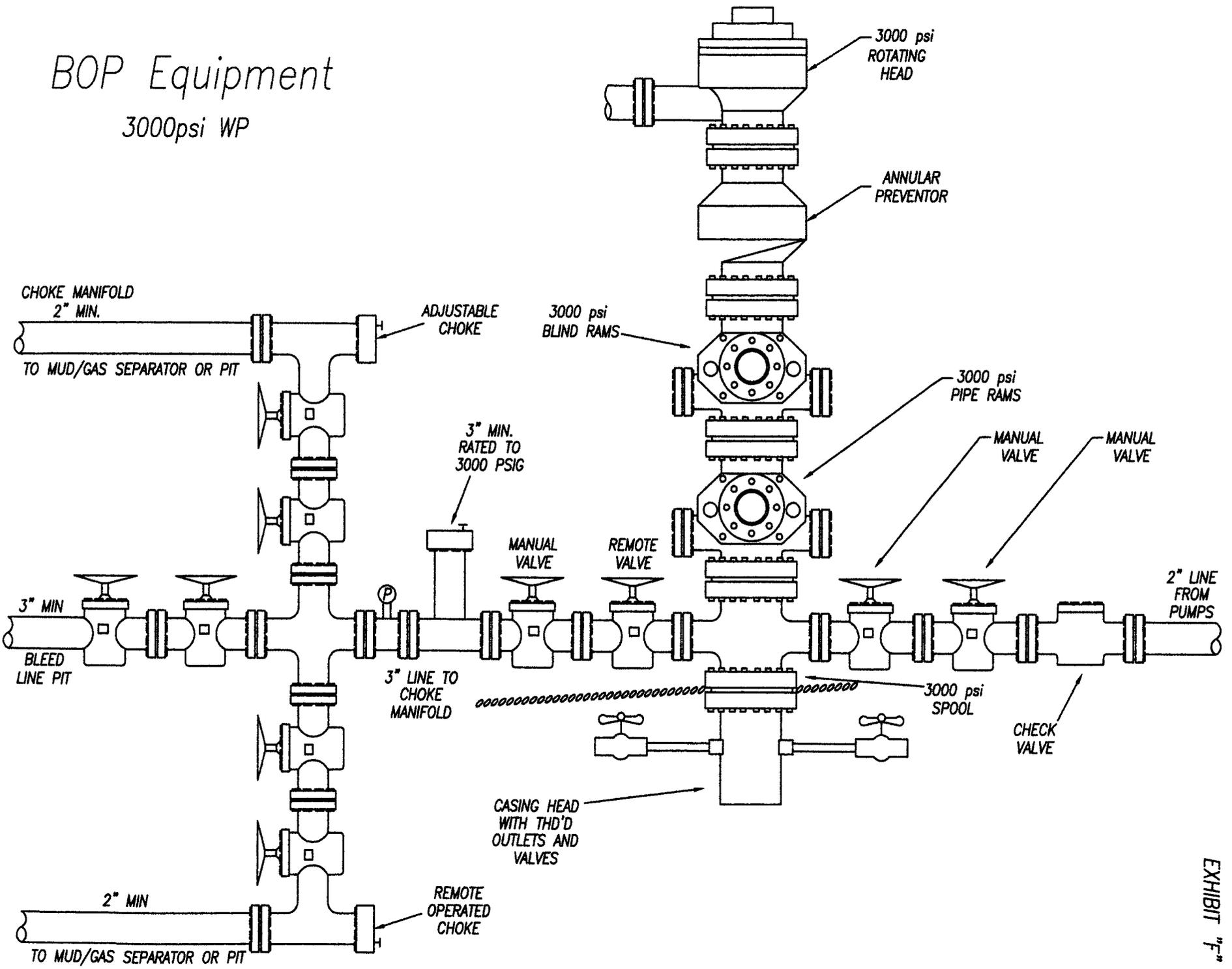
Don Hamilton

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

435-719-2018  
starpoint@etv.net

# BOP Equipment

3000psi WP



**XTO energy Corporation;  
Little Canyon Unit #9-36F: A Cultural  
Resource Inventory for a well  
its access and pipeline,  
Uintah County, Utah.**

**By  
James A. Truesdale**

**James A. Truesdale  
Principal Investigator**

**Prepared For  
XTO Energy Corporation  
1400 North State Street  
P.O.Box 1360  
Roosevelt, Utah  
84066**

**Prepared By  
AN INDEPENDENT ARCHAEOLOGIST  
P.O.Box 153  
Laramie, Wyoming  
82073**

**Utah Project # U-07-AY-1203(s)**

**October 9, 2007**

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## Introduction

An Independent Archaeologist (AIA) was contacted by a representative of XTO Energy Corporation to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #9-36F well, its access and pipeline. The location of the project area is the NE/SE 1/4 of Section 36, T10S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #9-36F well's centerstake footage (Alternate #1) is 1879' FSL, 766' FEL. The proposed LCU #9-36F well's centerstake Universal Transverse Mercator (UTM) coordinate is Zone 12, North American Datum (NAD) 83, 06/18/142.71mE 44/17/609.87mN.

From the existing LCU #10-36F well, the proposed access and pipeline trend west 1500 feet (457.3 m) to the proposed LCU #9-36F well pad.

The surface and minerals of Section 36 T10S R20E is administered by the Utah School Institutional Trust Land Administration (SITLA). A total of 16.88 acres (10 block, 6.88 linear) was surveyed. The fieldwork was conducted on October 4, 2007 by AIA owner and principal investigator James Truesdale and AIA staff Dr. David V. Hill. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

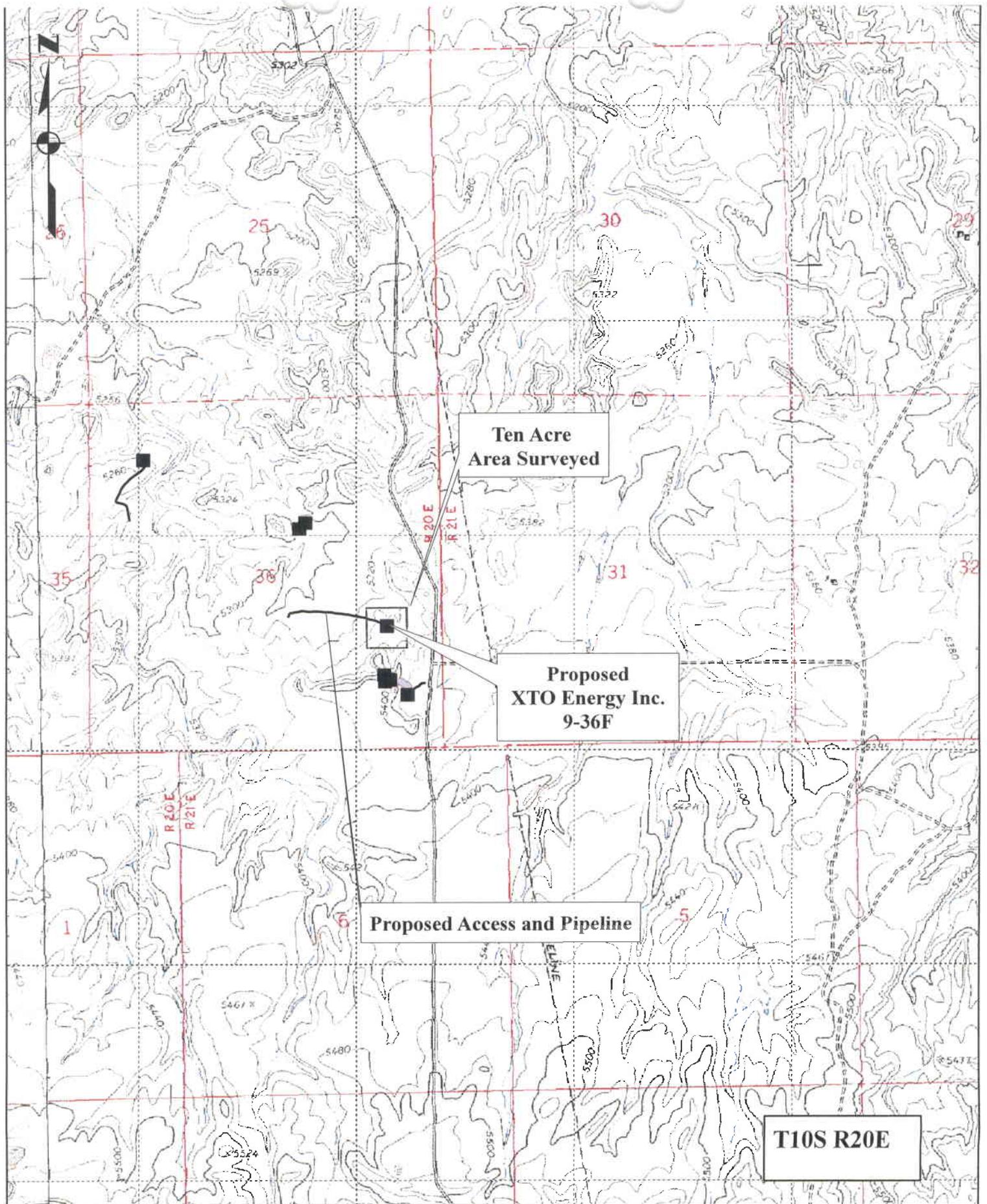
## File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on May 24 and again on October 2, 2007. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author. An update of AIA's USGS 7.5'/1968 (photorevised 1987) Big Pack Mountain NW quadrangle map from the UDSH's Big Pack Mountain NW quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that fourteen previous projects (U-97-AY-810, U-98-AY-283, U-01-AY-319, U-04-AY-079, U-05-AY-290, U-05-AY-332, U-05-AY-1074, U-06-AY-129, U-06-AY-130, U-06-AY-131, U-06-AY-132, U-06-AY-133, U-06-AY-424 and U-06-AY-426) have been conducted in the general area (Section 36 of T10S R20E). In addition, the Utah SHPO GIS files search indicated that one site (42UN5227) had been previously recorded in Section 36 of T10S R20E.

Site 42UN5227 is located in the SW/SE ¼ of Section 36 of T10S R20E. Thus the site is located 1/4 mile to the north of the present project area. The site will not be impacted by subsequent construction of the proposed LCU #9-36F well, its access or pipeline.

## Environment

Physiographically, the project is located in the Little



**Figure 1. Location of the proposed XTO Energy Inc. 9-36F well, access and pipeline on 1968 7.5' USGS Quadrangle Map Big Pack Mountain NE, Uintah County, Utah.**

Canyon Unit in the Uinta Basin, 14 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluvial, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated on in the Willow Creek Canyon. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the Little Canyon Unit area is characteristic of a low sagebrush community with shad scale and greasewood. Species observed in the project area include; big sagebrush (Artemesia tridentata), shadscale (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, (Erigonum ovalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), western wheatgrass (Agropyron smithii), spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur (Delphinium sp.), Indian paintbrush (Castilleja chromosa), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia intergrifolia), birdsage evening primrose (Oenothera deltoides), Russian thistle (Salsola kali), Russian knapweed (Centaurea repens), and prickly pear cactus (Opuntia sp.). In addition, a riparian community dominated by tall greasewood, cottonwood (Populus sp.), willow (Salix sp.), and salt cedar (tamerix) can be found along the Willow Creek Canyon bottom.

Little Canyon Unit (LCU) #9-36F

The proposed LCU #9-36F well pad is situated at the in a large open flat of a upland basin (Figures 2 and 3). A small knoll can be found adjacent immediately north of the proposed well pad. A small ephemeral drainage wash runs east to west across the northwestern portion of the well pad. The knoll and well pad location is part of an upland bench system of hills, ridges, benches and drainages that drain west to Willow Creek. A small southeast to northwest trending ephemeral drainage wash can be found to the south of the ridge. The sediments on the well location are colluvial in nature. These colluvial deposits consist of shallow ( $\leq 5$  cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with angular pieces of sandstone, clay and shale on the ridge tops and flat areas (Figure 3). Exposed and eroding tan to light brown sandstone and shale bedrock dominates the well pad landscape. Vegetation consists of low sagebrush, saltbush, rabbitbrush, greasewood, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5340 feet (1628.04 m) AMSL.

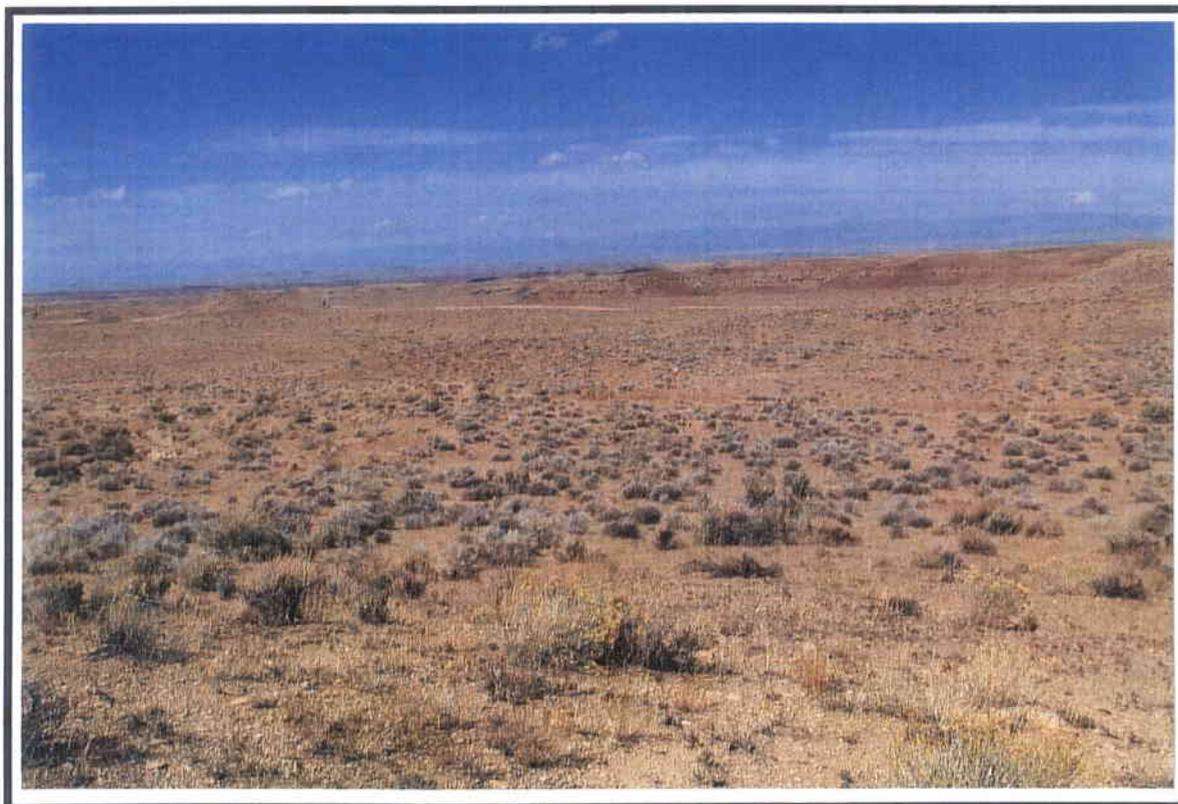


Figure 2. View to north at the proposed LCU #9-36F centerstake and well pad area.

From the existing Little Canyon Unit #10-3F well pad, the proposed access and pipeline parallel each other and trend 1500 feet (457.3 m) east to the proposed LCU #9-36F well. The access and pipeline cross a large broad open sagebrush flat to the proposed pipeline. Sediments along the pipeline consist of a shallow (5 to 10 cm), poorly sorted, loosely compacted, colluvial sandy clay loam. These colluvial deposits overlies sandstone, clay and shale bedrock. Vegetation along the access and pipeline is sparse and consists of low sagebrush, greasewood, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

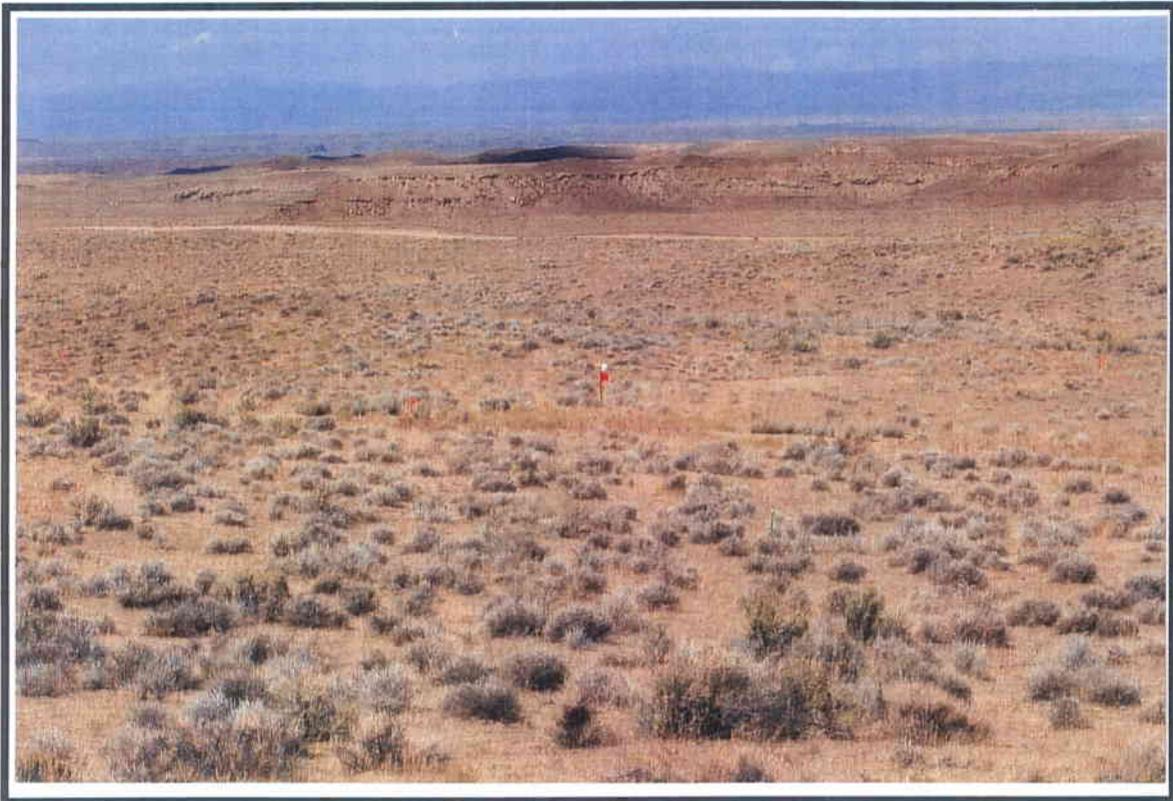


Figure 3. Closer view to west of the proposed Little Canyon Unit #9-36F well pad and the colluvial deposits on and surrounding the proposed LCU #9-36F well pad area.

### Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #9-36F well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline corridor surveyed is 1500 feet (457.3 m) long and 100 feet (30.4 m) wide, 3.44 acres. Thus, 6.88 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and

saddles) and areas of subsurface exposure (ant hills, blowouts, rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites were mapped with a Brunton compass, Trimble Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale *et al* 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) are measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and Garmin GPS III Plus and/or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

## Results

A total of 16.88 (10 block, 6.88 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO energy Corporation Little Canyon Unit (LCU) #9-36F well, and along its access and pipeline. No cultural resources (sites, isolates) were recorded on or around the proposed LCU #9-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing

oil and gas field service roads in the Little Canyon Unit area.

### Recommendations

A total of 16.88 (10 block, 6.88 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit #9-36F well, and along its access and pipeline. No cultural resources (sites, isolates) were recorded on or around the proposed LCU #9-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow. Therefore, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. No cultural resources (historic properties, isolates) were recorded during the survey for the proposed LCU #9-36F well, its access and pipeline. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #9-36F well pad, its access, and pipeline.

# PALEONTOLOGY EVALUATION SHEET

---

**PROJECT:** XTO Energy, Inc. – LCU #9-36F

**LOCATION:** 15 miles south of Ouray, Uintah County, Utah. Section 36, 1879' FSL 766' FEL, T10S, R20E, S.L.B.&M.

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

**DATE:** October 2, 2007

**GEOLOGY/TOPOGRAPHY:** Rock outcrops in this area are the lower part of Uinta Formation, Eocene age. The access road and pipeline come in from the west from LCU #10-36F. There are some rock exposures along the road and pipeline, but mostly alluvial cover of sand and rock fragments. Area is of fairly low relief. The well pad is on a sand covered north slope. There is a sandy knoll with sandstone fragments at the northwest corner.

**PALEONTOLOGY SURVEY:** YES [ X ] NO Survey [ ] PARTIAL Survey [ ]  
Pedestrian Survey of Uinta Formation rock exposures at the well pad as well as along the road and pipeline.

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

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

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

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, 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 # 07-355, BLM paleontological Resources Permit # UT-S-05-02,  
Utah Professional Geologist License – 5223011-2250.

## REFERENCES CITED

Childs, O.E.

1950 Geologic history of the Uinta Basin, Utah Geological and Mineralogical Survey. Guidebook to the Geology of Utah, No. 5:49-59.

Stokes, William D.

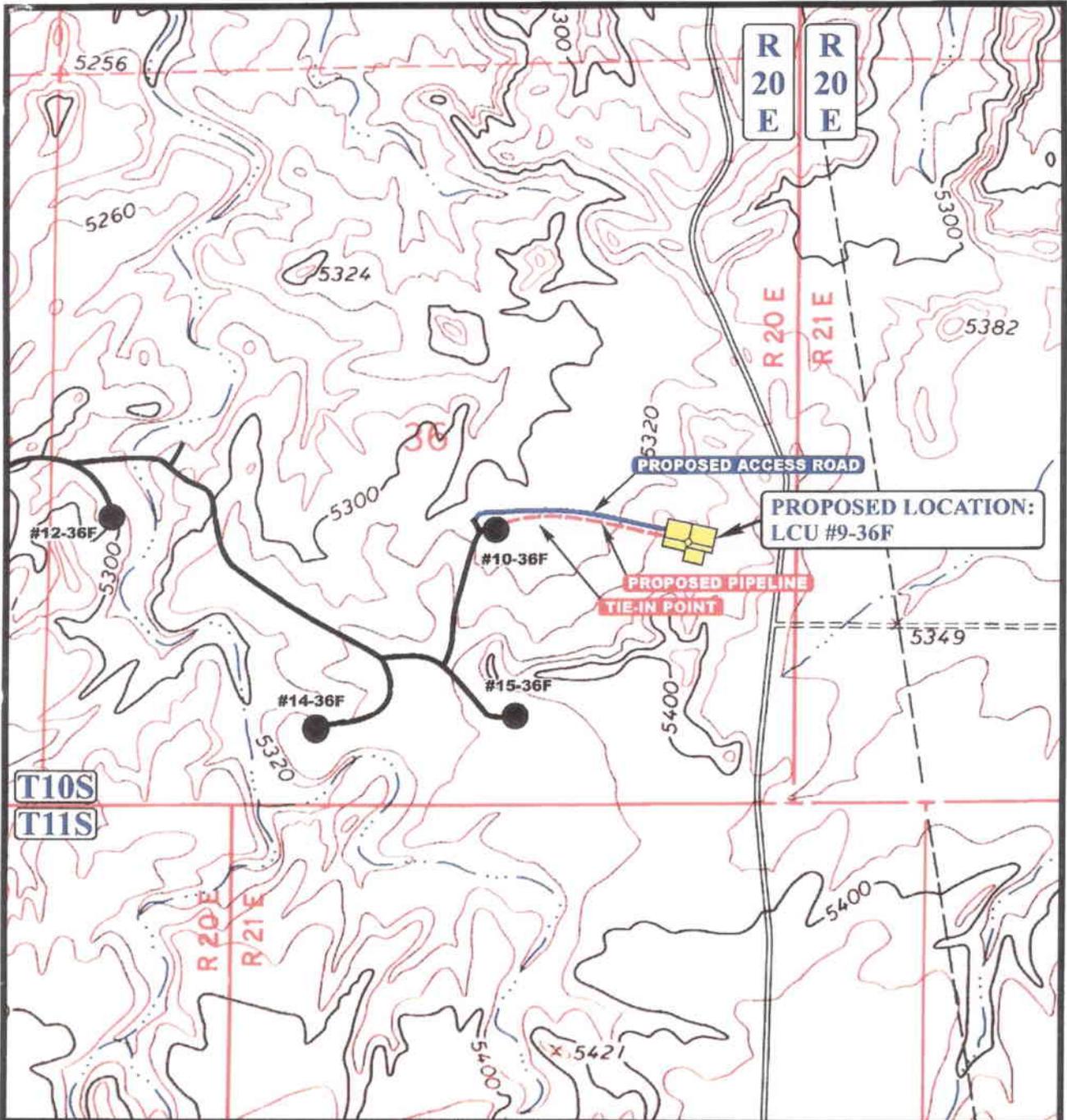
1986 Geology of Utah. Contributions by the Utah Museum of Natural History, and the Utah Geological and Mineral Survey Department of Natural Resources. Utah Museum of Natural History, Occasional Papers, No. 6.

Thornbury, William D.

1965 Regional Geomorphology of the United States. John Wiley & Sons, Inc.

Truesdale, James A., Kathleen E Hiatt, and Clifford Duncan

1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.



APPROXIMATE TOTAL PIPELINE DISTANCE = 929' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE



**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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

**TOPOGRAPHIC MAP** 09 14 07  
 MONTH DAY YEAR

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



**XTO ENERGY, INC.**  
**LCU #9-36F**  
**SECTION 36, T10S, 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 DIRECTION APPROXIMATELY 13.5 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN EASTERLY DIRECTION APPORXIMATELY 0.25 TO PROPOSED LOCATION.

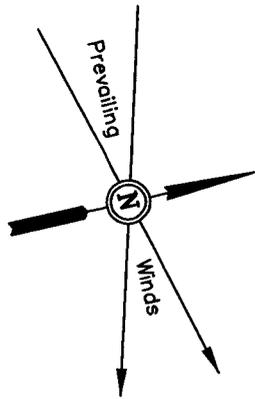
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.75 MILES.

XTO ENERGY, INC.

LOCATION LAYOUT FOR

LCU #9-36F  
SECTION 36, T10S, R20E, S.L.B.&M.

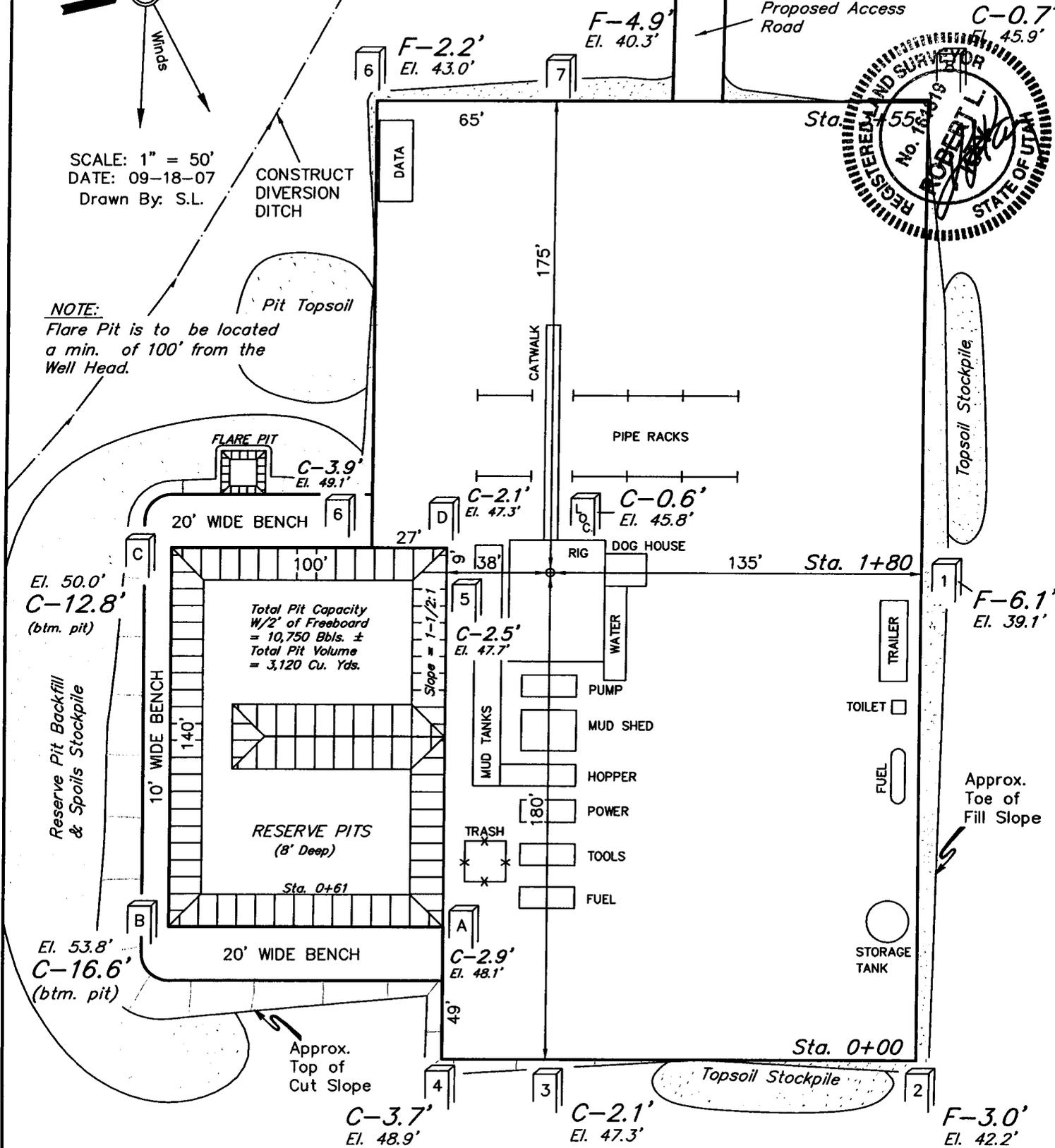
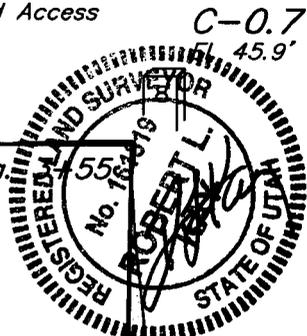
1879' FSL 766' FEL



SCALE: 1" = 50'  
DATE: 09-18-07  
Drawn By: S.L.

CONSTRUCT  
DIVERSION  
DITCH

**NOTE:**  
Flare Pit is to be located  
a min. of 100' from the  
Well Head.



Elev. Ungraded Ground at Location Stake = 5345.8'  
Elev. Graded Ground at Location Stake = 5345.2'

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

**XTO ENERGY, INC.**

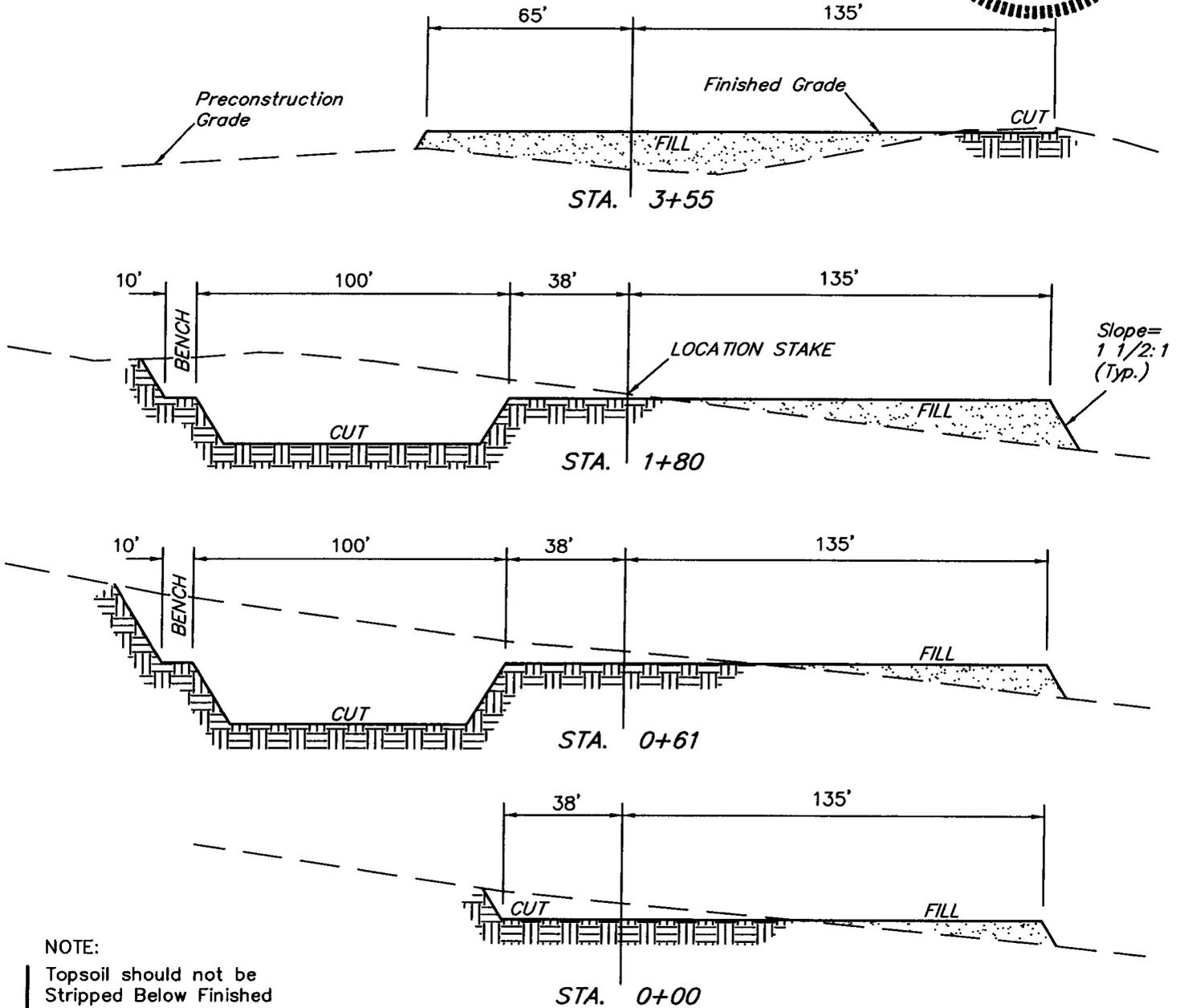
**TYPICAL CROSS SECTIONS FOR**

LCU #9-36F  
SECTION 36, T10S, R20E, S.L.B.&M.  
1879' FSL 766' FEL



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

DATE: 09-18-07  
Drawn By: S.L.



**NOTE:**

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

**APPROXIMATE YARDAGES**

<b>CUT</b>	
(6") Topsoil Stripping	= 1,780 Cu. Yds.
Remaining Location	= 7,730 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 9,510 CU.YDS.</b>
<b>FILL</b>	<b>= 5,740 CU.YDS.</b>

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL	= 3,770 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,340 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 430 Cu. Yds.

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

# XTO ENERGY, INC.

## LCU #9-36F

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T10S, R20E, S.L.B.&M.

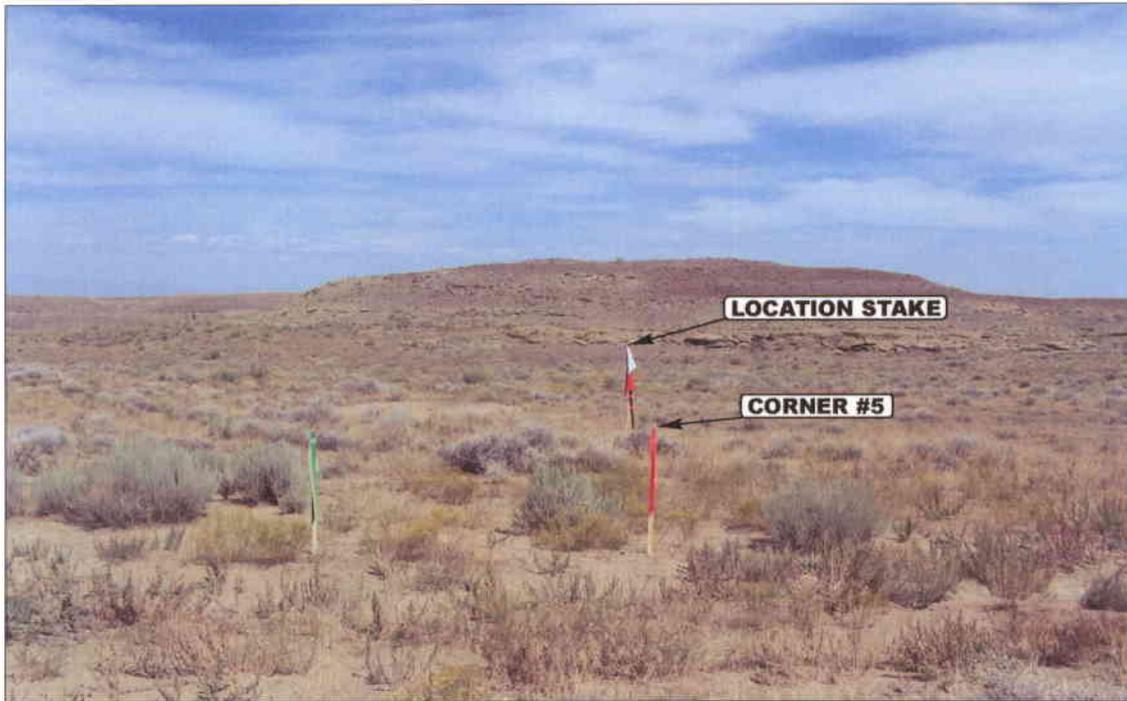


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS

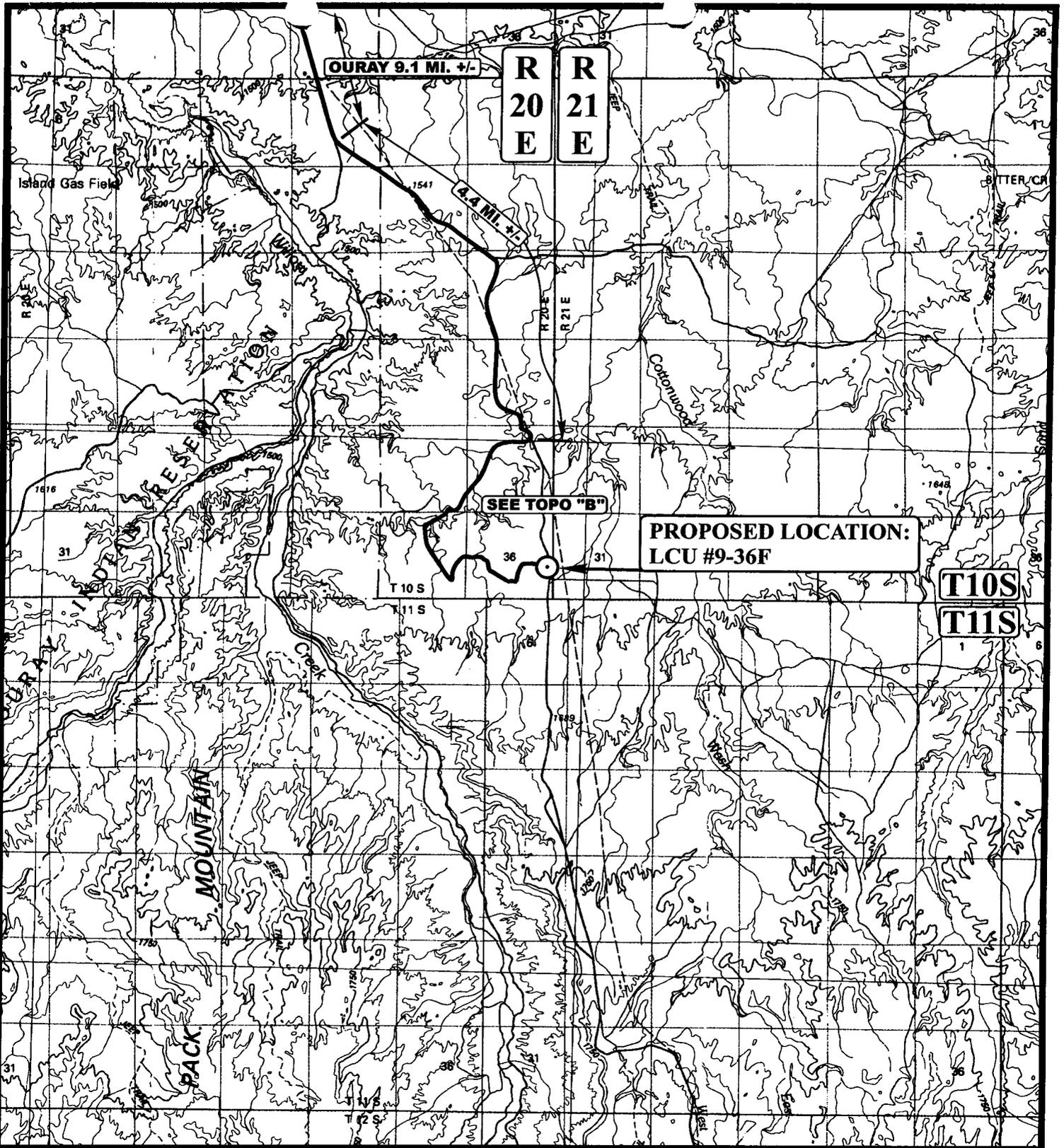
09 14 07  
MONTH DAY YEAR

PHOTO

TAKEN BY: B.B.

DRAWN BY: Z.L.

REVISED: 00-00-00



**LEGEND:**

⊙ PROPOSED LOCATION



**XTO ENERGY, INC.**

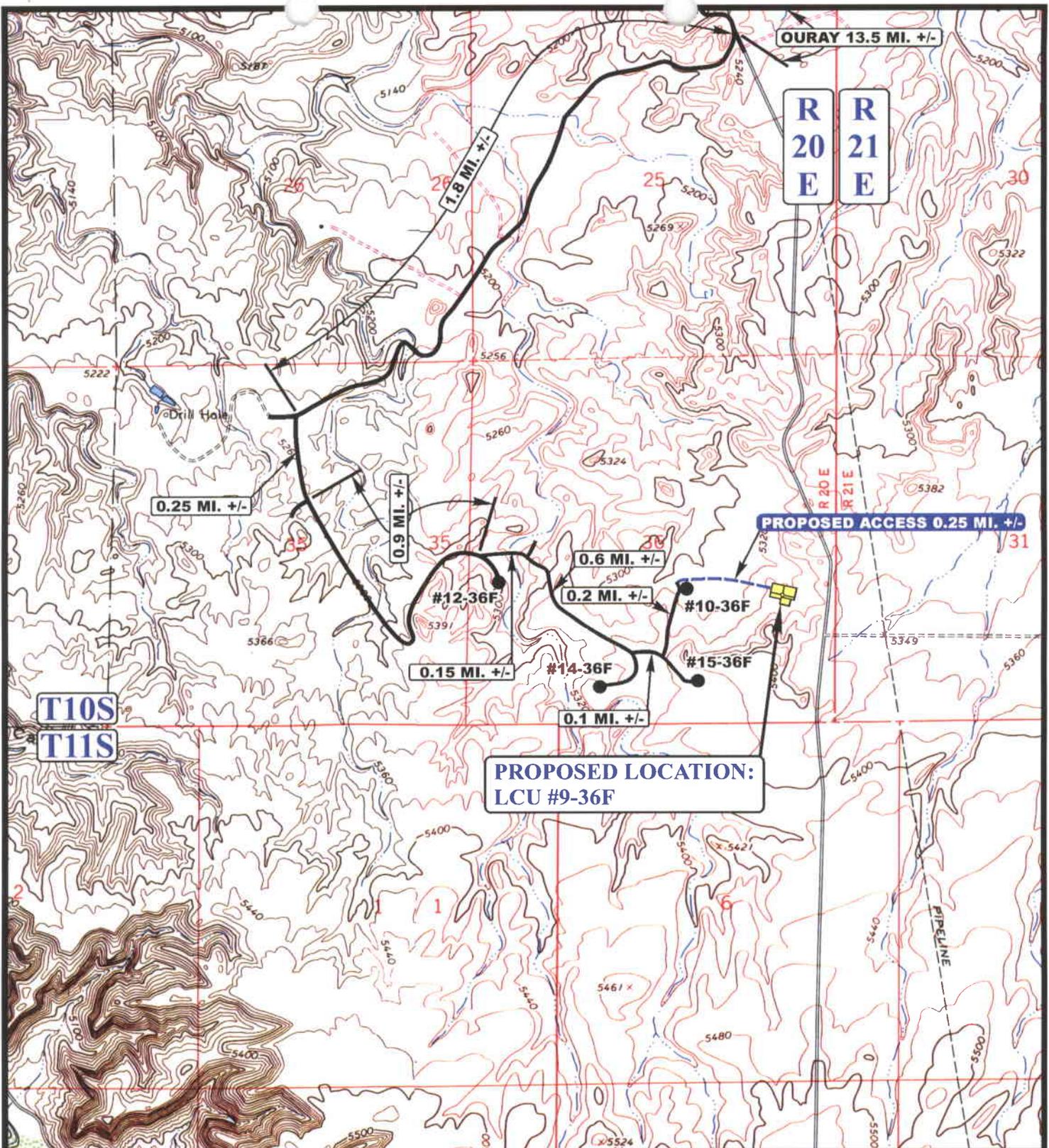
LCU #9-36F  
SECTION 36, T10S, R20E, S.L.B.&M.  
1879' FSL 766' FEL



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

**TOPOGRAPHIC** 09 14 07  
**MAP** MONTH DAY YEAR  
SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD



**XTO ENERGY, INC.**

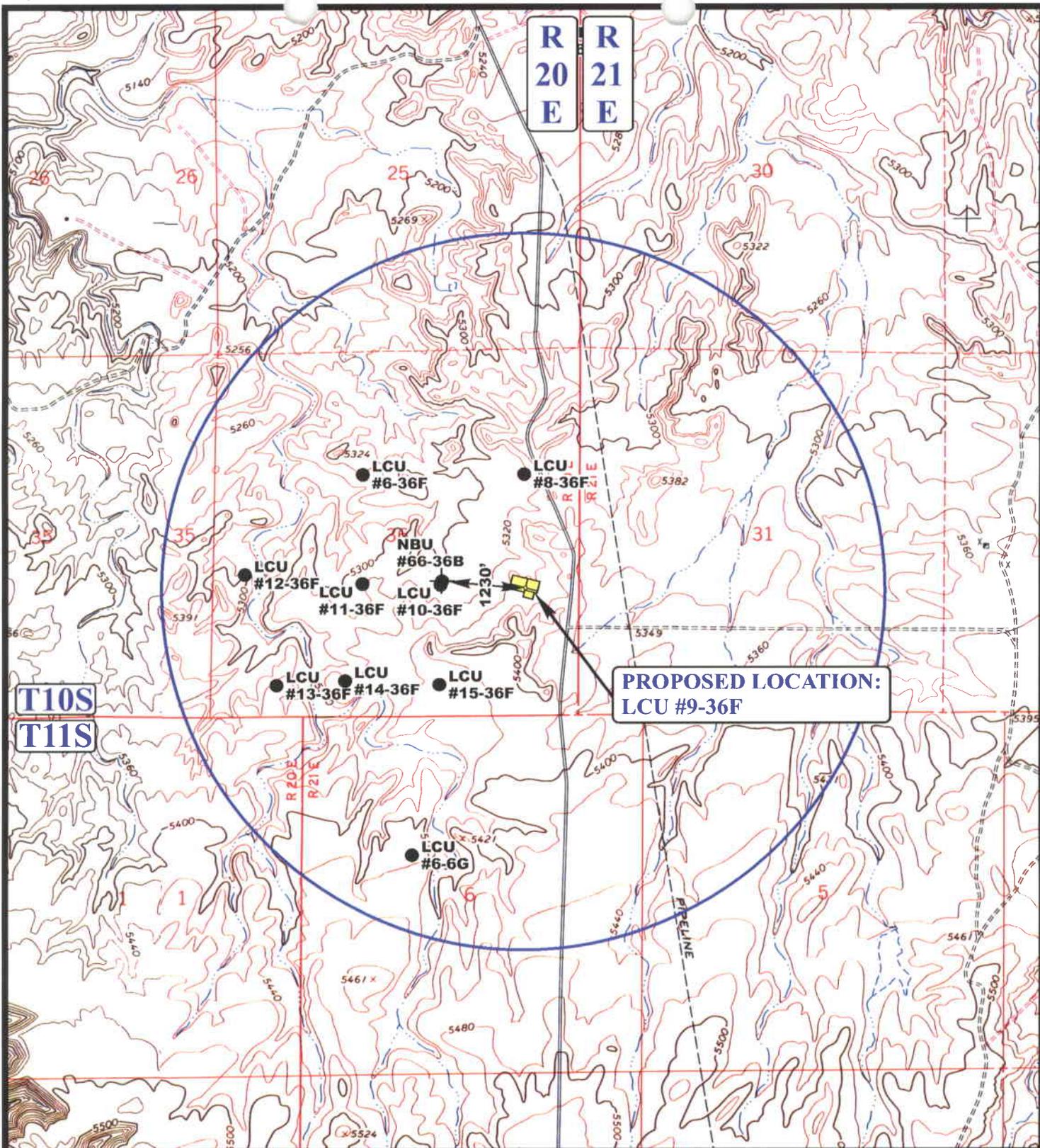
LCU #9-36F  
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 1879' FSL 766' FEL



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<b>TOPOGRAPHIC</b>	<b>09</b>	<b>14</b>	<b>07</b>
<b>MAP</b>	MONTH	DAY	YEAR
SCALE: 1" = 2000'	DRAWN BY: Z.L.		REVISED: 00-00-00





**LEGEND:**

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



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**XTO ENERGY, INC.**

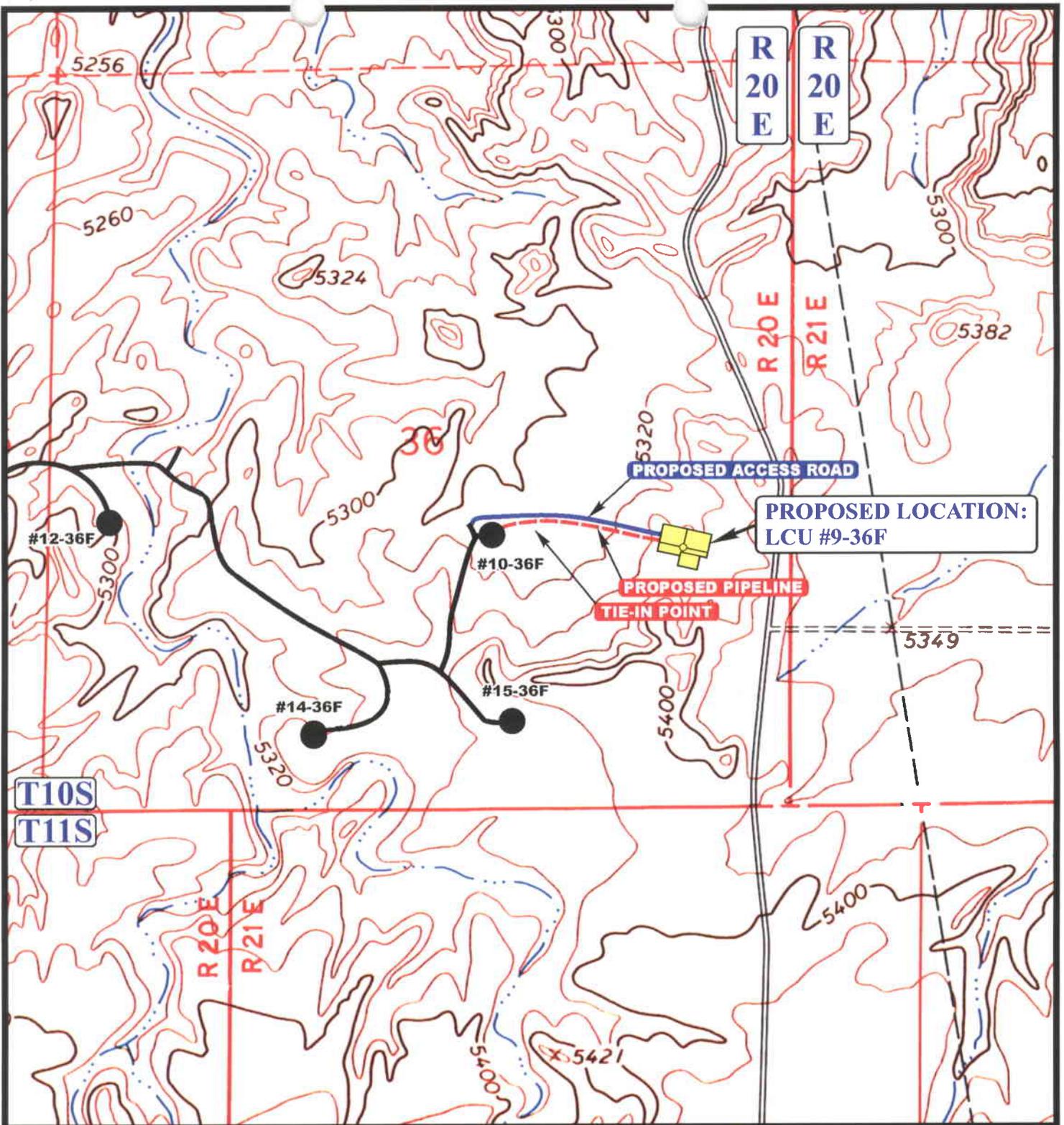
**LCU #9-36F**  
**SECTION 36, T10S, R20E, S.L.B.&M.**  
**1879' FSL 766' FEL**

**TOPOGRAPHIC**  
**MAP**

**09 14 07**  
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 929' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE

**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL

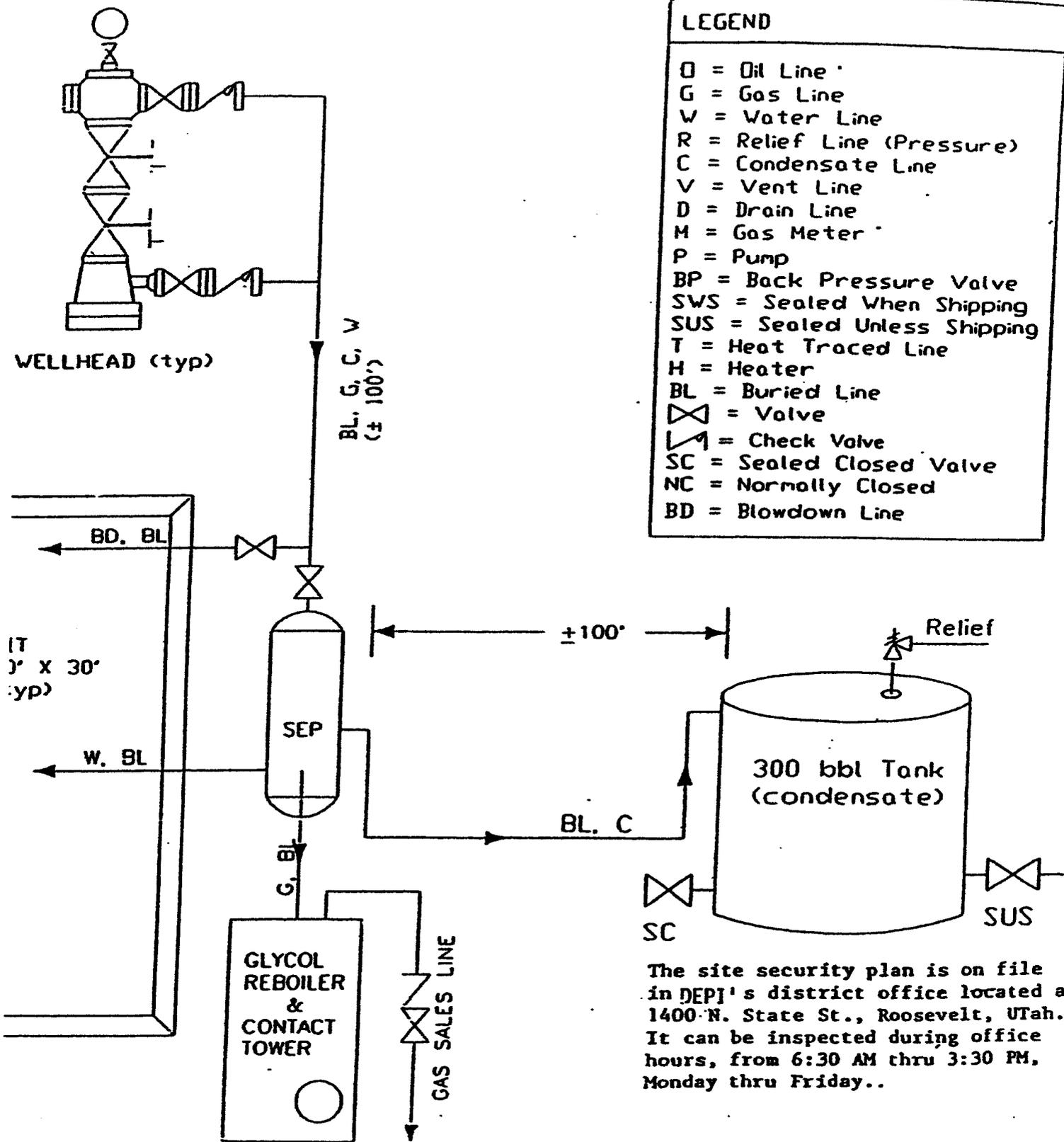


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP** 09 14 07  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00





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: 11/09/2007

API NO. ASSIGNED: 43-047-39783

WELL NAME: LCU 9-36F  
 OPERATOR: XTO ENERGY INC ( N2615 )  
 CONTACT: DON HAMILTON

PHONE NUMBER: 435-722-4521

PROPOSED LOCATION:

NESE 36 100S 200E  
 SURFACE: 1879 FSL 0766 FEL  
 BOTTOM: 1879 FSL 0766 FEL  
 COUNTY: UINTAH  
 LATITUDE: 39.90183 LONGITUDE: -109.6061  
 UTM SURF EASTINGS: 619159 NORTHINGS: 4417582  
 FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	12/7/07
Geology		
Surface		

LEASE TYPE: 3 - State  
 LEASE NUMBER: ML-47391  
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]  
(No. 104312762 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10447 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

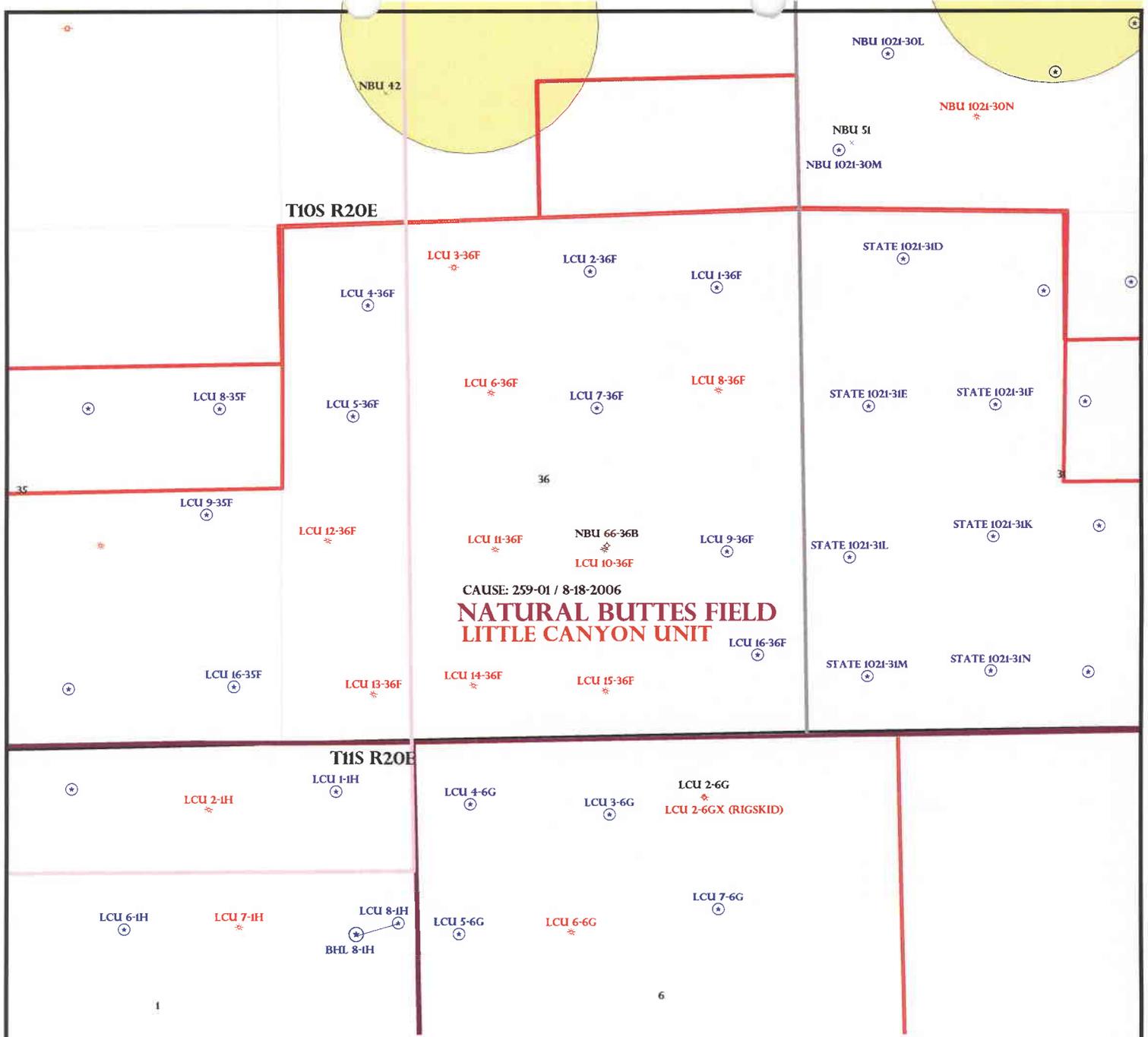
- \_\_\_ R649-2-3.
- Unit: LITTLE CANYON
- \_\_\_ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- \_\_\_ R649-3-3. Exception
- Drilling Unit  
Board Cause No: 259-01  
Eff Date: 8-18-2006  
Siting: 400' w/ uldng. & unnumm. Tracts
- \_\_\_ R649-3-11. Directional Drill

COMMENTS:

Needs Permit (11-27-07)

STIPULATIONS:

- 1- STATEMENT OF BASIS
- 2- OIL SHALE
- 3- Surface Csg Cont stip



OPERATOR: XTO ENERGY INC (N2615)

SEC: 36 T.10S R. 20E

FIELD: NATURAL BUTTES (630)

COUNTY: Uintah

CAUSE: 259-01 / 8-18-2006

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



OIL, GAS & MINING



PREPARED BY: DIANA MASON  
DATE: 16-NOVEMBER-2007

# Application for Permit to Drill

## Statement of Basis

11/29/2007

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
599	43-047-39783-00-00		GW	S	No
<b>Operator</b>	XTO ENERGY INC	<b>Surface Owner-APD</b>			
<b>Well Name</b>	LCU 9-36F	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	NESE 36 10S 20E S 1879 FSL 766 FEL GPS Coord (UTM) 619159E 4417582N				

### Geologic Statement of Basis

XTO proposes to set 2,200 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 4,300 feet. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the proposed location. This well is over a mile from the proposed location. The well is owned by the BLM it is listed as used for stock watering. The surface formation at this location is the Uinta Formation. The well depth is listed as 2,500 feet. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The proposed surface casing and cement should adequately protect any near surface aquifers. The production string cement should be brought up above the base of the moderately saline water to prevent it from mixing with fresher waters up hole.

Brad Hill  
APD Evaluator

11/29/2007  
Date / Time

### Surface Statement of Basis

Floyd Bartlett (DOGM), Ken Secrist, Jody Mecham, Zander Mcentire (XTO Energy, INC.), Ben Williams (UDWR), Brandon Bowthorpe (U.E.L.S.), David Allen (LaRose Construction), Randy Jackson (Jackson Construction)

The general area is approximately 13 miles southwest of Ouray, Utah and in an oil field Unit known as Little Canyon. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Willow Creek contains a perennial stream. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

Planned access to the LCU 9-36F as proposed is by the Seep Ridge Road and the existing road to LCU 10-36F well. A new plat will be submitted changing the access to come directly from the Seep Ridge road. Length is estimated to be about 0.15 miles.

The location is on a gentle northwest slope leading away from hummocky sandy hills located to the southeast. This slope continues to the west where a draw and hills with exposed sandstone ledges exist. A draw to the south will be diverted to the west around the location.

Both the surface and minerals are owned by SITLA. Ed Bonner and Jim Davis of SITLA were invited to the pre-site evaluation. Neither attended. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

Ben Williams representing the UDWR stated the area is classified as yearlong crucial habitat for antelope but water not forage is the factor limiting the growth of the herd. He did not recommend any restrictions for this species. No other wildlife species are expected to be significantly affected. He furnished Ken Secrist of XTO, a copy of his evaluation and a recommended seed mix to be used when the site is re-vegetated.

---

# Application for Permit to Drill

## Statement of Basis

11/29/2007

Utah Division of Oil, Gas and Mining

Page 2

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Floyd Bartlett  
Onsite Evaluator

11/27/2007  
Date / Time

### Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

Operator XTO ENERGY INC  
Well Name LCU 9-36F  
API Number 43-047-39783-0 APD No 599 Field/Unit UNDESIGNATED  
Location: 1/4,1/4 NESE Sec 36 Tw 10S Rng 20E 1879 FSL 766 FEL  
GPS Coord (UTM) 619159 4417586 Surface Owner

### Participants

Floyd Bartlett (DOGM), Ken Secrist, Jody Mecham, Zander Mcentire (XTO Energy, INC.), Ben Williams (UDWR), Brandon Bowthorpe (U.E.L.S.), David Allen (LaRose Construction), Randy Jackson (Jackson Construction)

### Regional/Local Setting & Topography

The general area is approximately 13 miles southwest of Ouray, Utah and in an oil field Unit known as Little Canyon. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle to deep draws running westerly a distance of about 3 miles into Willow Creek. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Willow Creek contains a perennial stream. No other seeps, springs or streams are known to exist in the area. An occasional pond collecting runoff for livestock and antelope occurs.

Planned access to the LCU 9-36F as proposed is by the Seep Ridge Road and the existing road to LCU 10-36F well. A new plat will be submitted changing the access to come directly from the Seep Ridge road. Length is estimated to be about 0.15 miles.

The location is on a gentle northwest slope leading away from hummocky sandy hills located to the southeast. This slope continues to the west where a draw and hills with exposed sandstone ledges exist. A draw to the south will be diverted to the west around the location.

Both the surface and minerals are owned by SITLA. This investigation did not reveal any significant issues or situations, which should prohibit access to or drilling and operating the well at this site.

### Surface Use Plan

#### Current Surface Use

Grazing  
Recreational  
Wildlfe Habitat

#### New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.15	Width 283	Length 355	Onsite
			UNTA

Ancillary Facilities N

### Waste Management Plan Adequate? Y

### Environmental Parameters

Affected Floodplains and/or Wetland N

#### Flora / Fauna

Moderately vegetated with curly mesquite, halogeton, pepper grass, horsebrush, shadscale, broom snake weed, Russian thistle, budsage, cheat grass and mustard weed.

Antelope, coyotes, rabbits and miscellaneous small mammals and birds.

**Soil Type and Characteristics**

Moderately deep sandy loam.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required** Y

A draw to the south will be diverted to the west around the location.

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

**Paleo Survey Run?** N    **Paleo Potential Observed?** N    **Cultural Survey Run?** Y    **Cultural Resources?** N

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	300 to 1320	10
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	Fresh Water	5
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>	<10	0
<b>Affected Populations</b>	<10	0
<b>Presence Nearby Utility Conduits</b>	Not Present	0

**Final Score** 25    1    **Sensitivity Level**

**Characteristics / Requirements**

A 100' x 140' x 8' deep reserve pit is planned in an area of cut on the southeast side of the location. It will be lined with a 16-mil liner with an appropriate thickness of felt sub- liner.

**Closed Loop Mud Required?** N    **Liner Required?** Y    **Liner Thickness** 16    **Pit Underlayment Required?** Y

**Other Observations / Comments**

ATV's were used to access the site

Floyd Bartlett  
**Evaluator**

11/27/2007  
**Date / Time**

2007-12 XTO LCU 9-36F

Casing Schematic

**BHP**  $0.052(9050)9.2 = 4330 \text{ psi}$   
 anticipate 4100 - 4600 psi

**GM**  $.12(9050) = 1086$   
 $4330 - 1086 = 3244 \text{ psi; MASP}$

**BoPE**  $0.22(9050) = 1991 \text{ psi}$   
 MASP = 2339 psi

3M; Surf will bear drilled

**Burst** 3520  
 70% 2464 psi

Max P @ surf. shoe  
 $.22(6850) = 1507$   
 $4330 - 1507 = 2823 \text{ psi}$

Test to 2400 psi

✓ Adequate DWD 12/7/07



Surface

12' 15'

9-5/8"  
 MW 8.4  
 Frac 19.3

5-1/2"  
 MW 9.2

Uenta

TOC @ 547' to surf w/ 7% tail @ 1624'  
 \*St. P ✓

TOC @ 1478'

to surf. w/ 6% tail @ 6609'  
 1751' TOC tail

Surface  
 2200. MD

- 3727' Wasatch Tongue
- 4065' Green River Tongue
- 4195' Wasatch
- 4300' ± BMSW
- 4925' Chapita Wells
- ✓
- 6118' Ufeland Buttes
- 6848' Mesaverde
- 7025' TOC tail

Production  
 9050. MD

Well name:	<b>2007-12 XTO LCU 9-36F</b>	
Operator:	<b>XTO Energy, Inc.</b>	Project ID:
String type:	<b>Surface</b>	<b>43-047-39783</b>
Location:	<b>Uintah Co.</b>	

<b>Design parameters:</b>	<b>Minimum design factors:</b>	<b>Environment:</b>
<b>Collapse</b>	<b>Collapse:</b>	H2S considered? No
Mud weight: 8.400 ppg	Design factor 1.125	Surface temperature: 65 °F
Design is based on evacuated pipe.		Bottom hole temperature: 96 °F
		Temperature gradient: 1.40 °F/100ft
		Minimum section length: 185 ft
	<b>Burst:</b>	Cement top: 547 ft
	Design factor 1.00	
<b>Burst</b>		
Max anticipated surface pressure: 1,936 psi	<b>Tension:</b>	<b>Non-directional string.</b>
Internal gradient: 0.120 psi/ft	8 Round STC: 1.80 (J)	
Calculated BHP 2,200 psi	8 Round LTC: 1.80 (J)	
No backup mud specified.	Buttress: 1.60 (J)	
	Premium: 1.50 (J)	<b>Re subsequent strings:</b>
	Body yield: 1.50 (B)	Next setting depth: 9,050 ft
	Tension is based on air weight.	Next mud weight: 9.200 ppg
	Neutral point: 1,926 ft	Next setting BHP: 4,325 psi
		Fracture mud wt: 19,250 ppg
		Fracture depth: 2,200 ft
		Injection pressure: 2,200 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2200	9.625	36.00	J-55	ST&C	2200	2200	8.796	954.9

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	960	2020	2.104	2200	3520	1.60	79	394	4.97 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals  
 Phone: 810-538-5357  
 Date: December 6, 2007  
 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 2200 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:	<b>2007-12 XTO LCU 9-36F</b>	
Operator:	<b>XTO Energy, Inc.</b>	Project ID:
String type:	Production	43-047-39783
Location:	Uintah Co.	

**Design parameters:**

**Collapse**

Mud weight: 9.200 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 2,334 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,325 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on air weight.  
 Neutral point: 7,787 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 192 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 368 ft

Cement top: 1,478 ft

**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9050	5.5	17.00	N-80	LT&C	9050	9050	4.767	1181.3
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	4325	6290	1.454	4325	7740	1.79	154	348	2.26 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Minerals

Phone: 810-538-5357

Date: December 6, 2007  
 Salt Lake City, Utah

**ENGINEERING STIPULATIONS: NONE**

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.  
 Collapse is based on a vertical depth of 9050 ft, a mud weight of 9.2 ppg. The casing is considered to be evacuated for collapse purposes.  
 Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47391</b>
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
		7. UNIT or CA AGREEMENT NAME: <b>Little Canyon Unit</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER: <b>LCU 9-36F</b>
2. NAME OF OPERATOR: <b>XTO Energy, Inc.</b>		9. API NUMBER: <b>4304739783</b>
3. ADDRESS OF OPERATOR: <b>P.O. Box 1360</b> CITY <b>Roosevelt</b> STATE <b>UT</b> ZIP <b>84066</b>		PHONE NUMBER: <b>(435) 722-4521</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1879' FSL &amp; 766' FEL,</b>		10. FIELD AND POOL, OR WILDCAT: <b>Natural Buttes</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESE 36 10S 20E S</b>		COUNTY: <b>Uintah</b>
		STATE: <b>UTAH</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<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 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><b>Road and Pipe Change</b></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. has changed the primary access to the LCU 9-36F to access from the Uintah County maintained Seep Ridge Road and utilize the route proposed within the APD as a loop route to further reduce traffic and dust within the project area and provide for a quicker egress route should an emergency occur within the project area. The pipeline would then follow the new access road to existing gathering closer to the existing LCU compressor facility.

Attached please find an updated Exhibit 'B' and Surface Use Plan reflecting the changes proposed to replace those within the previously submitted APD dated November 7, 2007

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

**COPY SENT TO OPERATOR**  
Date: 12-19-2007  
Initials: KS

Date: 12-17-07  
By: [Signature]

NAME (PLEASE PRINT) <u>Don Hamilton</u>	TITLE <u>Agent for XTO Energy, Inc.</u>
SIGNATURE <u>Don Hamilton</u>	DATE <u>12/10/2007</u>

(This space for State use only)

**RECEIVED**

**DEC 13 2007**

**DIV. OF OIL, GAS & MINING**

**XTO ENERGY, INC.**  
**LCU #9-36F**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 36, T10S, R20E, S.L.B.&M.

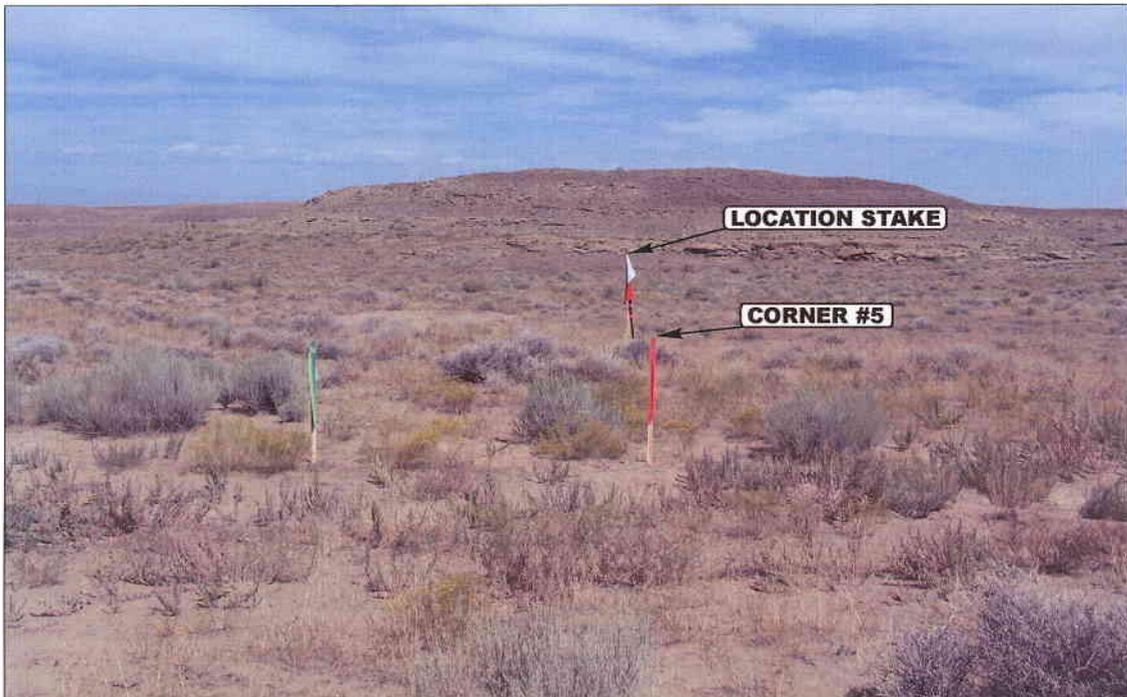


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

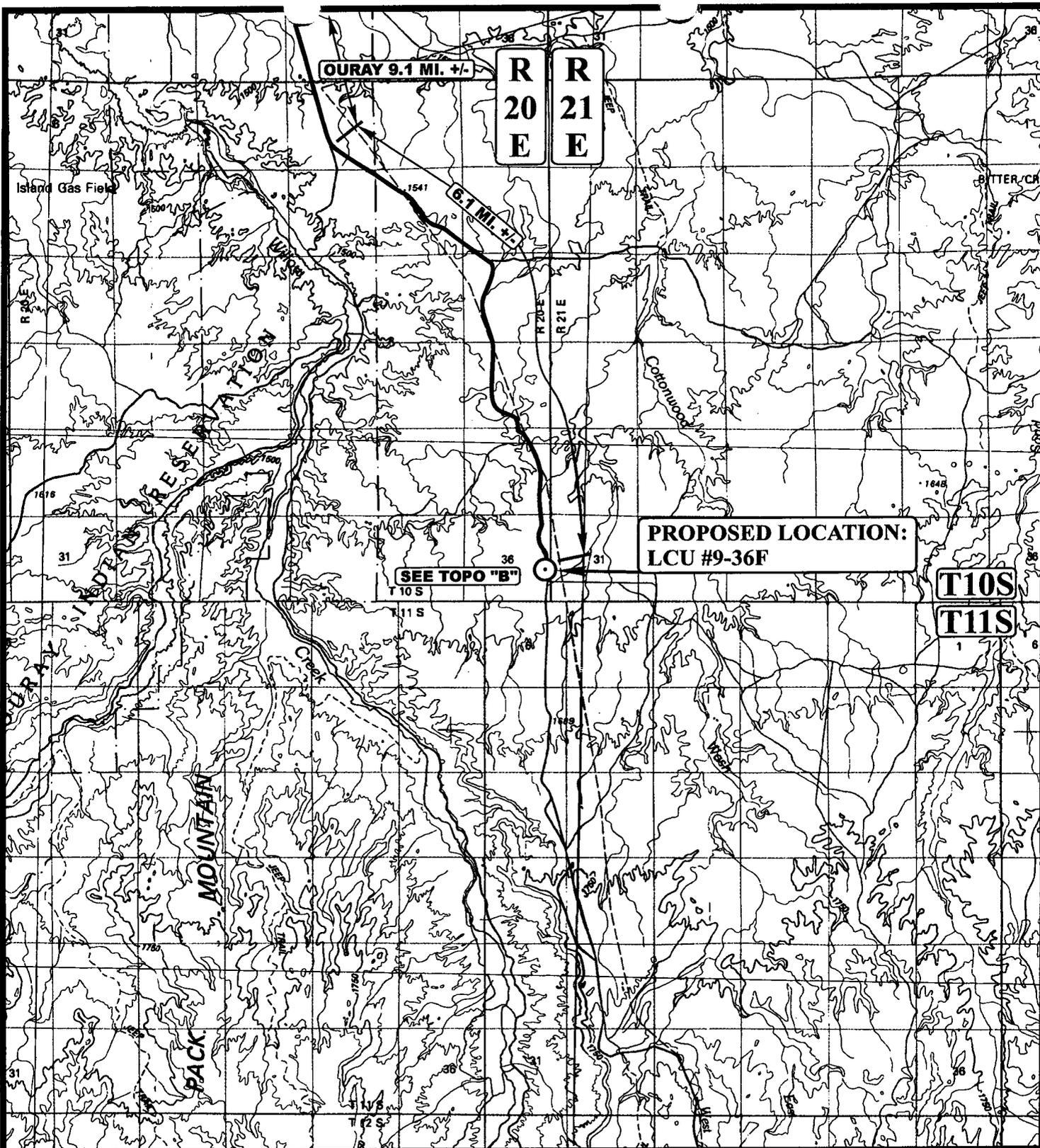
CAMERA ANGLE: WESTERLY



- Since 1964 -

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

<b>LOCATION PHOTOS</b>			<b>09</b>	<b>14</b>	<b>07</b>	<b>PHOTO</b>
			MONTH	DAY	YEAR	
TAKEN BY: B.B.	DRAWN BY: Z.L.	REVISED: 11-29-07				



**LEGEND:**

⊙ PROPOSED LOCATION

**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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

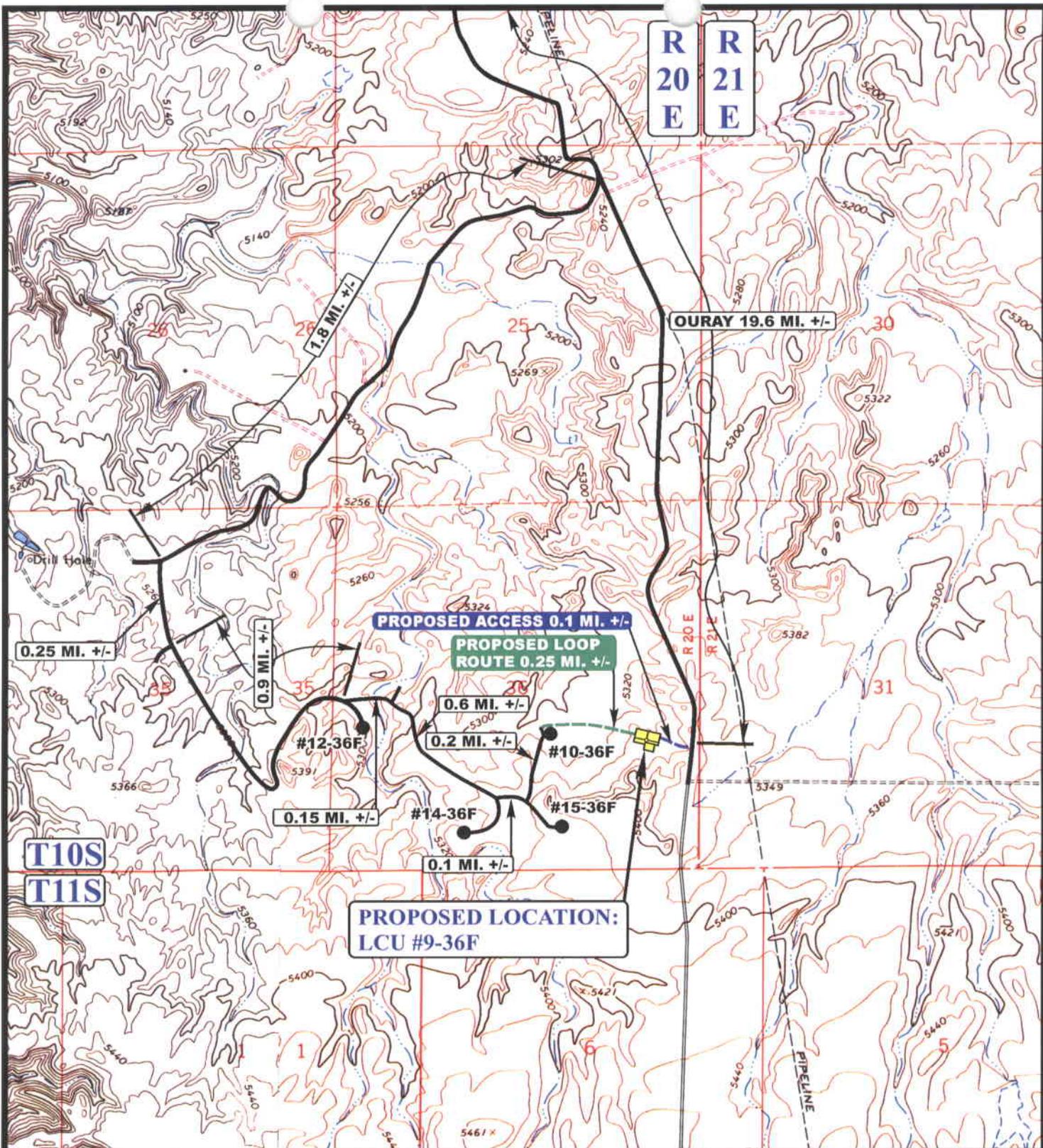


TOPOGRAPHIC  
 MAP

09	14	07
MONTH	DAY	YEAR

SCALE: 1:100,000 | DRAWN BY: ZL. | REVISED: 11-29-07





**LEGEND:**

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD



**XTO ENERGY, INC.**

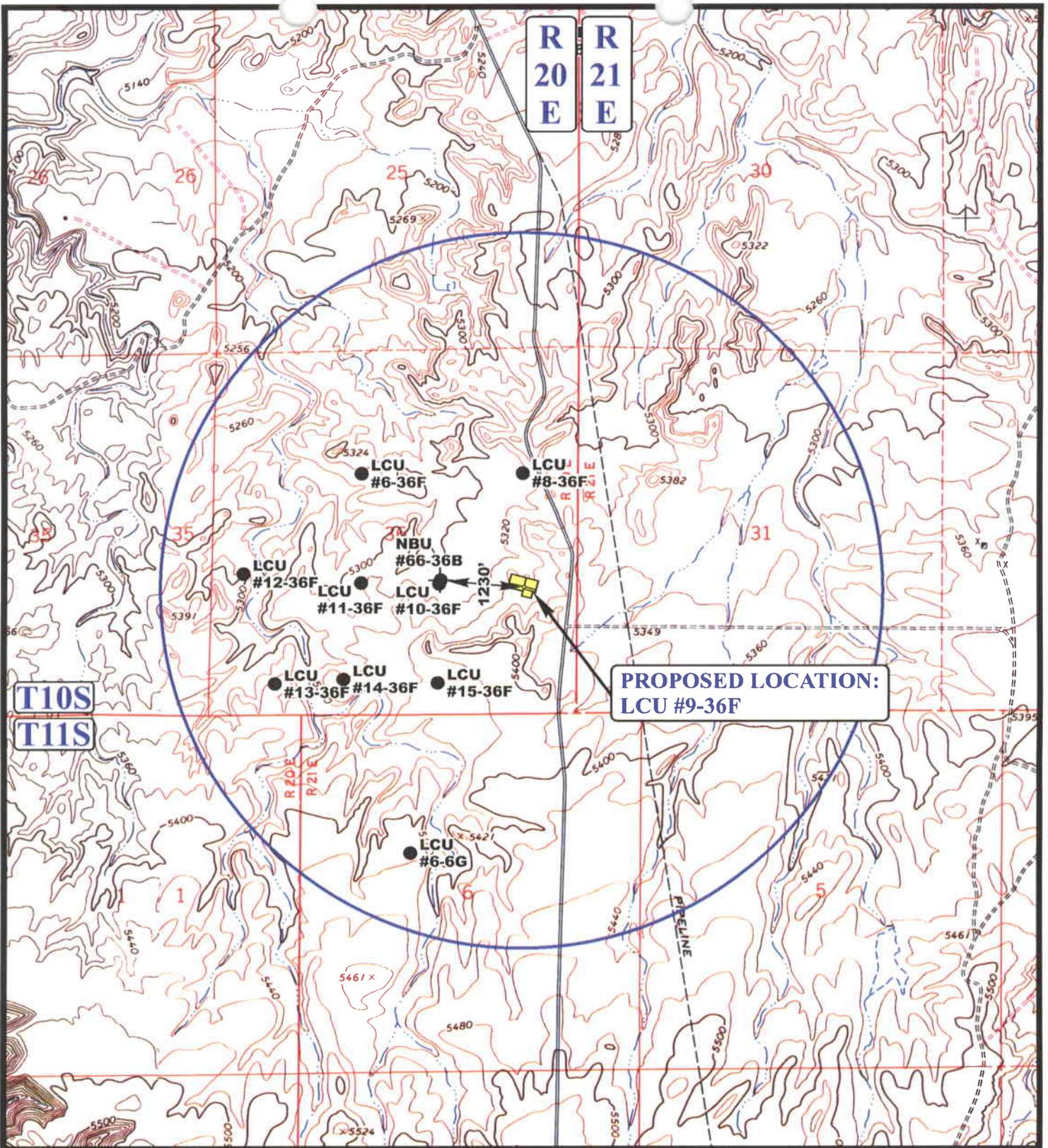
LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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

**TOPOGRAPHIC MAP** 09 14 07  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 11-29-07





**LEGEND:**

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

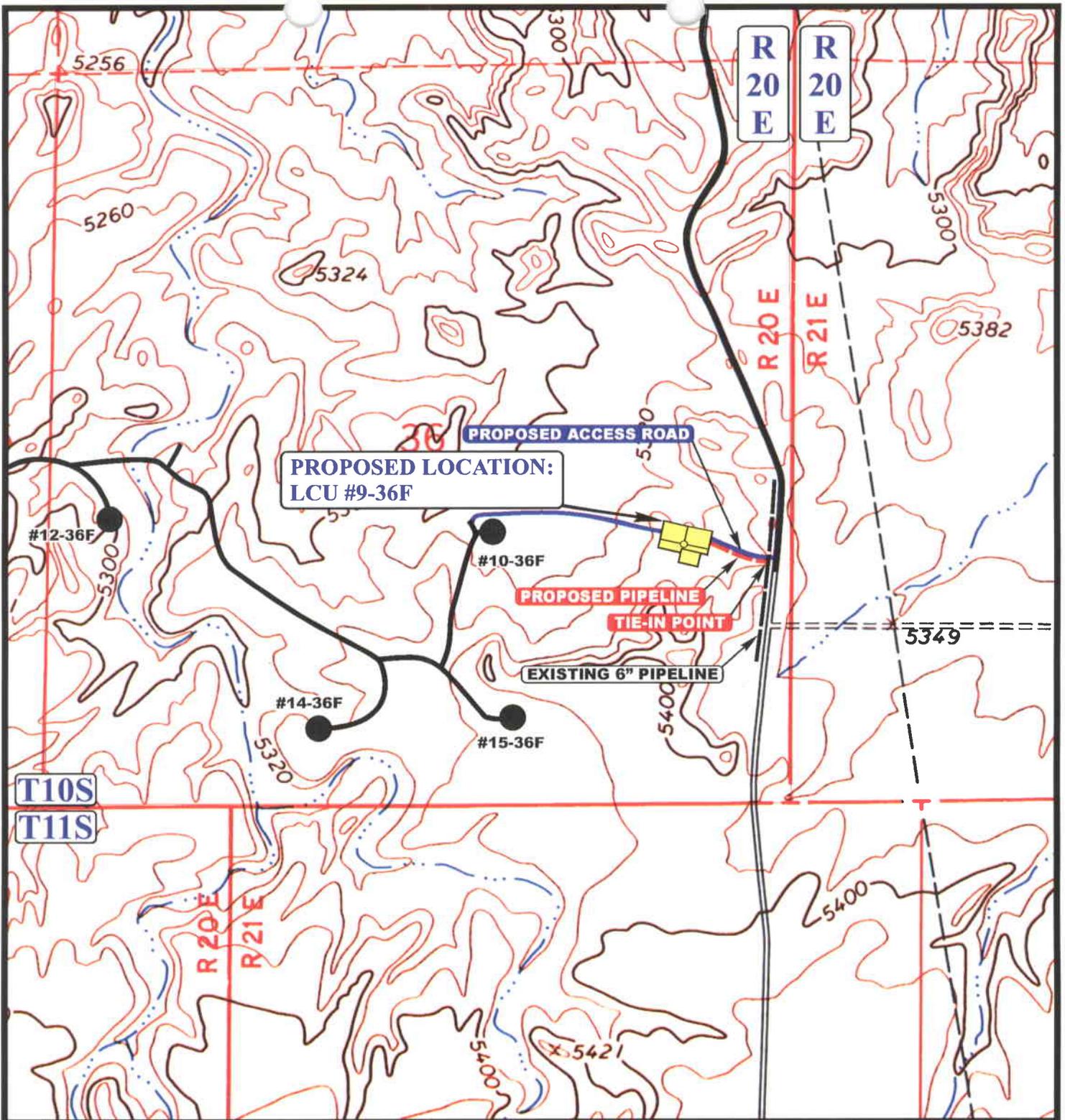
**UEIS** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**XTO ENERGY, INC.**

**LCU #9-36F**  
**SECTION 36, T10S, R20E, S.L.B.&M.**  
**1879' FSL 766' FEL**

**TOPOGRAPHIC MAP** **09 14 07**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 11-29-07 **C TOPO**



APPROXIMATE TOTAL PIPELINE DISTANCE = 454' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- - - - - PROPOSED PIPELINE

**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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



**TOPOGRAPHIC MAP** 09 14 07  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 11-29-07



**XTO ENERGY, INC.**  
**LCU #9-36F**  
**SECTION 36, T10S, 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 DIRECTION APPROXIMATELY 19.6 MILES ON THE SEEP RIDGE ROAD TO THE BEGINNING OF PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPORXIMATELY 0.1 TO PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.7 MILES.

**SURFACE USE PLAN**

**CONDITIONS OF APPROVAL**

**Name of Operator:** XTO Energy, Inc.  
**Address:** P.O. Box 1360; 978 North Crescent  
Roosevelt, Utah 84066  
**Well Location:** LCU 9-36F  
1879' FSL & 766' FEL, NE/4 SE/4,  
Section 36, T10S, 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 is pending at this time.

1. **Location of Existing Roads:**

- a. The proposed well site is located approximately 13.42 miles southeast of Ouray, UT.
- 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 Little Canyon Unit area. A Uintah County Road encroachment is needed and will be acquired prior to constructing the new road encroachment from the Uintah County maintained Seep Ridge Road.
- 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 is not anticipated for the access road since access presently exists to the lease boundary.

2. **New or Reconstructed Access Roads:**

- a. From the existing Uintah County maintained Seep Ridge Road an access is proposed trending west approximately 0.1 miles to the proposed well site.
- b. A proposed loop road will continue from the proposed well site to the existing LCU 10-36F. The loop road will trend west approximately 0.25 miles and will connect the LCU area to the County maintained Seep Ridge Road and reduce traffic and dust through out the project area and provide for a quicker egress route should an emergency occur within the project area.
- c. Both access routes consist of entirely new disturbance and cross no significant drainages. A road design plan is not anticipated at this time.

- d. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.
- e. SITLA approval to construct and utilize the proposed access road and loop road is requested with this application.
- f. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.
- g. No turnouts are proposed since the access road is only 0.35 miles long and adequate site distance exists in all directions.
- h. No low-water crossings and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- i. No surfacing material will come from federal or Indian lands.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel will be limited to the approved location access road.
- l. 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 for Oil and Gas Exploration and Development, (1989).
- m. 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 Desert Brown /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 454' east to the existing LCU compressor suction pipeline corridor
- i. 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 75' wide disturbed pipeline corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction. A new buried pipeline corridor length of approximately 454' is associated with this well.
- j. An existing pipeline corridor upgrade is proposed from the proposed tie-in location to the LCU compressor facility along the existing pipeline route.
- k. 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 single trench and within a 75' wide disturbed pipeline corridor. The use of the existing well site and access roads will facilitate the staging of the pipeline corridor upgrade. An upgrade to a 75' wide buried pipeline corridor of approximately 0.4 miles is associated with this application.
- l. The proposed pipeline and pipeline upgrade are contained within SITLA surface.
- m. 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 Attachment No. 3.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10447, Section 33, 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 south 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 west.
- c. The pad and road designs are consistent with SITLA specification
- d. A pre-construction meeting with responsible company representative, contractors, and the SITLA 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 Crested Wheat Grass (6 lbs / acre)
    - o Needle and Thread Grass (3 lbs / acre)
    - o Rice Grass (3 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 SITLA or the appropriate County Extension Office. On SITLA 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 SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.
- b. Mineral Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

- a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e-mail
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. AIA Archaeological has conducted a Class III archeological survey. A copy of the report is

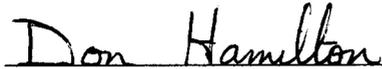
attached and has also been submitted under separate cover to the appropriate agencies by AIA Archaeological.

- 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.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's SITLA bond 104312-762. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 10<sup>th</sup> day of December, 2007.

  
\_\_\_\_\_

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

435-719-2018  
starpoint@etv.net

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office  
P.O. Box 45155  
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:  
3160  
(UT-922)

November 16, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2007 Plan of Development Little Canyon Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2007 within the Little Canyon Unit, Uintah County, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ Wasatch/MesaVerde)		
43-047-39788	LCU 07-36F Sec 36 T10S R20E 1991 FNL 2059 FEL	
43-047-39780	LCU 01-36F Sec 36 T10S R20E 0782 FNL 0823 FEL	
43-047-39781	LCU 02-36F Sec 36 T10S R20E 0577 FNL 2112 FEL	
43-047-39782	LCU 04-36F Sec 36 T10S R20E 0860 FNL 0889 FWL	
43-047-39783	LCU 09-36F Sec 36 T10S R20E 1879 FSL 0766 FEL	
43-047-39784	LCU 16-36F Sec 36 T10S R20E 0815 FSL 0471 FEL	

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Little Canyon Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:11-16-07



**State of Utah**  
**DEPARTMENT OF NATURAL RESOURCES**

**MICHAEL R. STYLER**  
*Executive Director*

**Division of Oil Gas and Mining**

**JOHN R. BAZA**  
*Division Director*

**JON M. HUNTSMAN, JR.**  
*Governor*

**GARY R. HERBERT**  
*Lieutenant Governor*

December 17, 2007

XTO Energy, Inc.  
P O Box 1360  
Roosevelt, UT 84066

Re: Little Canyon Unit 9-36F Well, 1879' FSL, 766' FEL, NE SE, Sec. 36, T. 10 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 43-047-39783.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: XTO Energy, Inc.  
Well Name & Number Little Canyon Unit 9-36F  
API Number: 43-047-39783  
Lease: ML-47391

Location: NE SE                      Sec. 36                      T. 10 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

The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
- 24 hours prior to spudding the well – contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
- Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

- Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
- Any changes to the approved drilling plan – contact Dustin Doucet

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at:                      (801) 538-5338 office                      (801) 942-0873 home
- Carol Daniels at:                      (801) 538-5284 office
- 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. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.



2580 Creekview Road  
Moab, Utah 84532  
435/719-2018 435/719-2019 Fax

RECEIVED  
VERNAL FIELD OFFICE

2007 NOV -9 PM 2: 38

DEPT. OF THE INTERIOR  
BUREAU OF LAND MGMT.

November 7, 2007

Mrs. Diana Mason  
State of Utah  
Division of Oil Gas and Mining  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—XTO Energy, Inc.  
LCU 9-36F - 1879' FSL & 766' FEL, NE/4 SE/4,  
Section 36, T10S, R20E, SLB&M, Uintah County, Utah

43 047 39783

Dear Diana;

On behalf of XTO Energy, Inc. Buys & Associates, Inc. respectfully submits the enclosed original and one copy of the Application for Permit to Drill (APD) for the above referenced SITLA surface and mineral vertical well. The location of the surface and target location as well as all points along the intended well bore path are within Cause No. 259-01 and are not within 460 feet of the unit boundary or any uncommitted tracts. 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: Fluid Mineral Group, BLM—Vernal Field Office  
Ken Secrest, XTO Energy, Inc.

RECEIVED

FEB 07 2008

DIV. OF OIL, GAS & MINING

FILE COPY

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

FORM 3

AMENDED REPORT   
(highlight changes)

VERNAL FIELD OFFICE

APPLICATION FOR PERMIT TO DRILL -9 PM 2:38

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML-47391	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____		7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
2. NAME OF OPERATOR: XTO Energy, Inc.		8. UNIT or CA AGREEMENT NAME: Little Canyon Unit	
3. ADDRESS OF OPERATOR: P.O. Box 1360 CITY Roosevelt STATE UT ZIP 84066		PHONE NUMBER: (435) 722-4521	9. WELL NAME and NUMBER: LCU 9-36F
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 1,879' FSL & 766' FEL, AT PROPOSED PRODUCING ZONE:		10. FIELD AND POOL, OR WILDCAT: undesigned	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 13.42 miles southeast of Ouray, Utah		12. COUNTY: Uintah	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 766'	16. NUMBER OF ACRES IN LEASE: 640	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) 1,230'	19. PROPOSED DEPTH: 9,050	20. BOND DESCRIPTION: 104312 762	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5,346' ungraded ground	22. APPROXIMATE DATE WORK WILL START: 1/15/2008	23. ESTIMATED DURATION: 14 days	

24. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12-1/4"	9-5/8" J-55 ST 36#	2,200	see Drilling Plan
7-7/8"	5-1/2" N-80 LT 17#	9,050	see Drilling Plan

25. ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER        | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) Don Hamilton TITLE Agent for XTO Energy, Inc.  
SIGNATURE Don Hamilton DATE 11/7/2007

(This space for State use only)

ACCEPTED BY BLM FOR  
UNIT PURPOSES ONLY

API NUMBER ASSIGNED: \_\_\_\_\_

APPROVAL: \_\_\_\_\_

RECEIVED 5 2008

(11/2001)

(See Instructions on Reverse Side)

FEB 07 2008

DIV. OF OIL, GAS & MINING

T10S, R20E, S.L.B.&M.

1928 Brass Cap,  
0.7' High, Pile  
of Stones

R  
20  
E

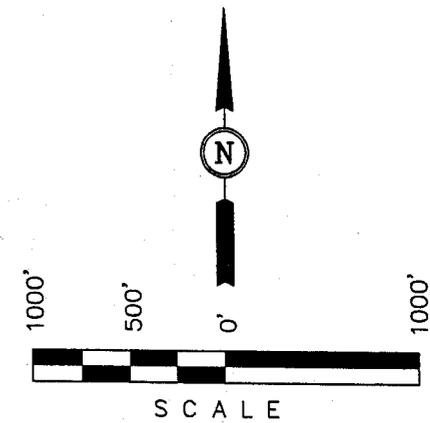
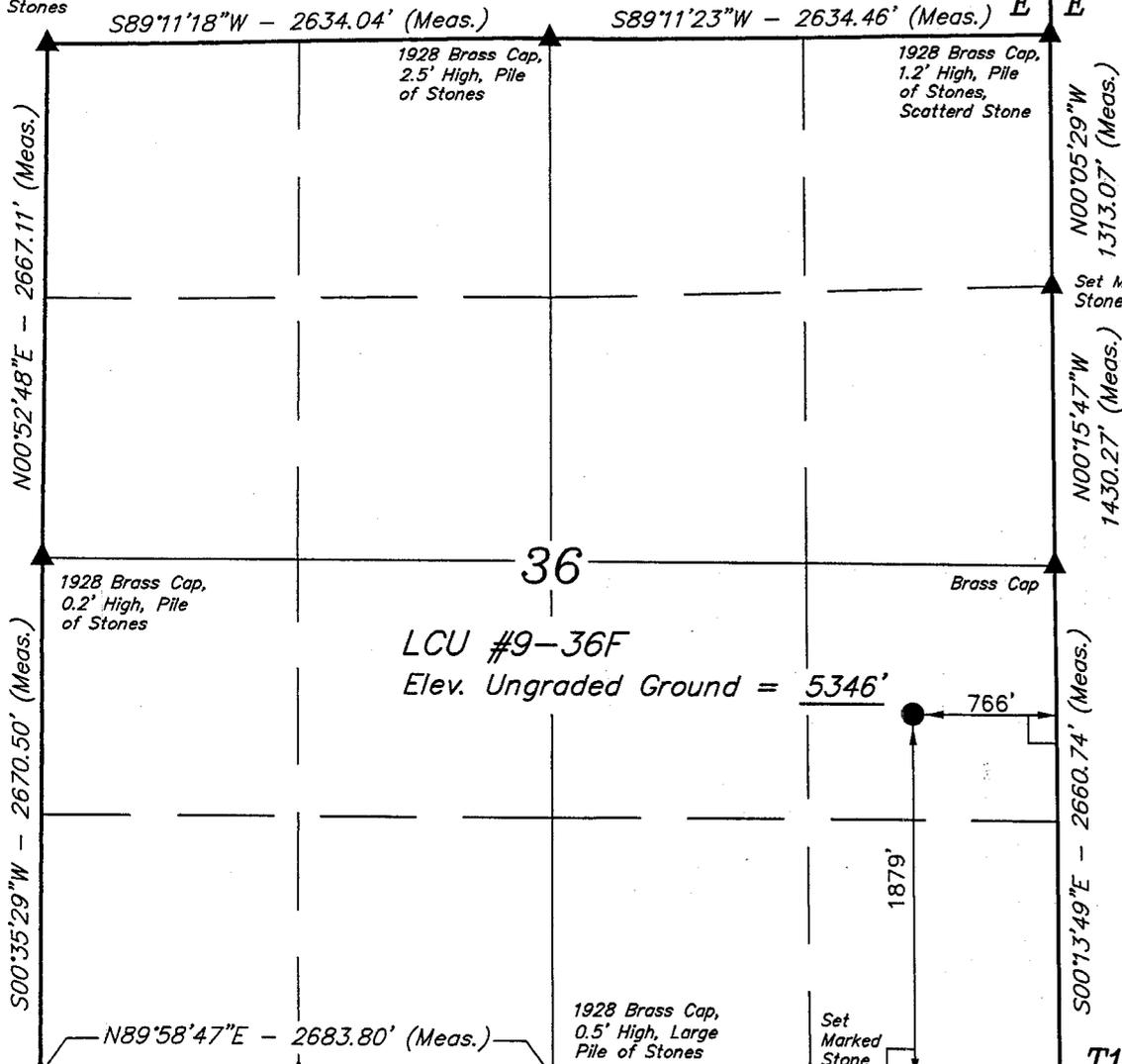
Well location, LCU #9-36F, located as shown in  
the NE 1/4 SE 1/4 of Section 36, T10S, R20E,  
S.L.B.&M., Uintah County Utah.

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.

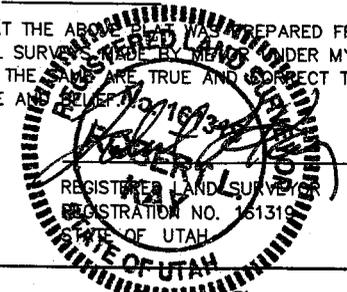
BASIS OF BEARINGS

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



CERTIFICATE

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



LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°54'06.49" (39.901803)  
 LONGITUDE = 109°36'24.37" (109.606769)  
 (NAD 27)  
 LATITUDE = 39°54'06.61" (39.901836)  
 LONGITUDE = 109°36'21.89" (109.606081)

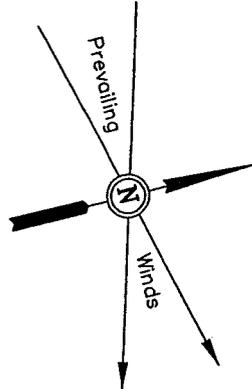
UINTAH ENGINEERING & LAND SURVEYING  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-13-07	DATE DRAWN: 09-18-07
PARTY B.B. K.D. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE XTO ENERGY, INC.	

**XTO ENERGY, INC.**

**LOCATION LAYOUT FOR**

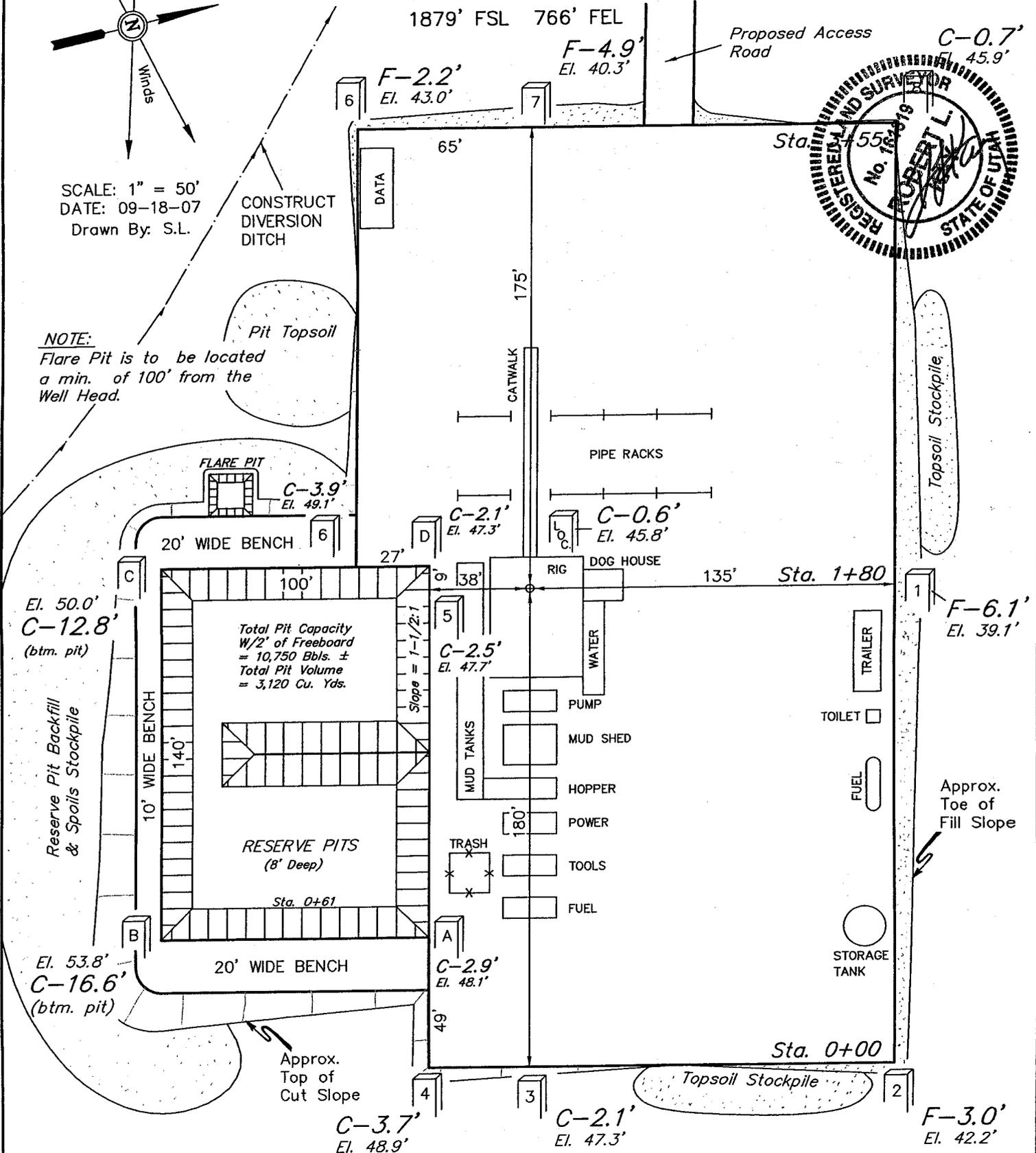
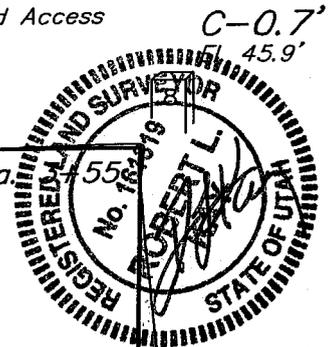
LCU #9-36F  
SECTION 36, T10S, R20E, S.L.B.&M.  
1879' FSL 766' FEL



SCALE: 1" = 50'  
DATE: 09-18-07  
Drawn By: S.L.

CONSTRUCT DIVERSION DITCH

**NOTE:**  
Flare Pit is to be located a min. of 100' from the Well Head.



Elev. Ungraded Ground at Location Stake = 5345.8'  
Elev. Graded Ground at Location Stake = 5345.2'

# XTO ENERGY, INC.

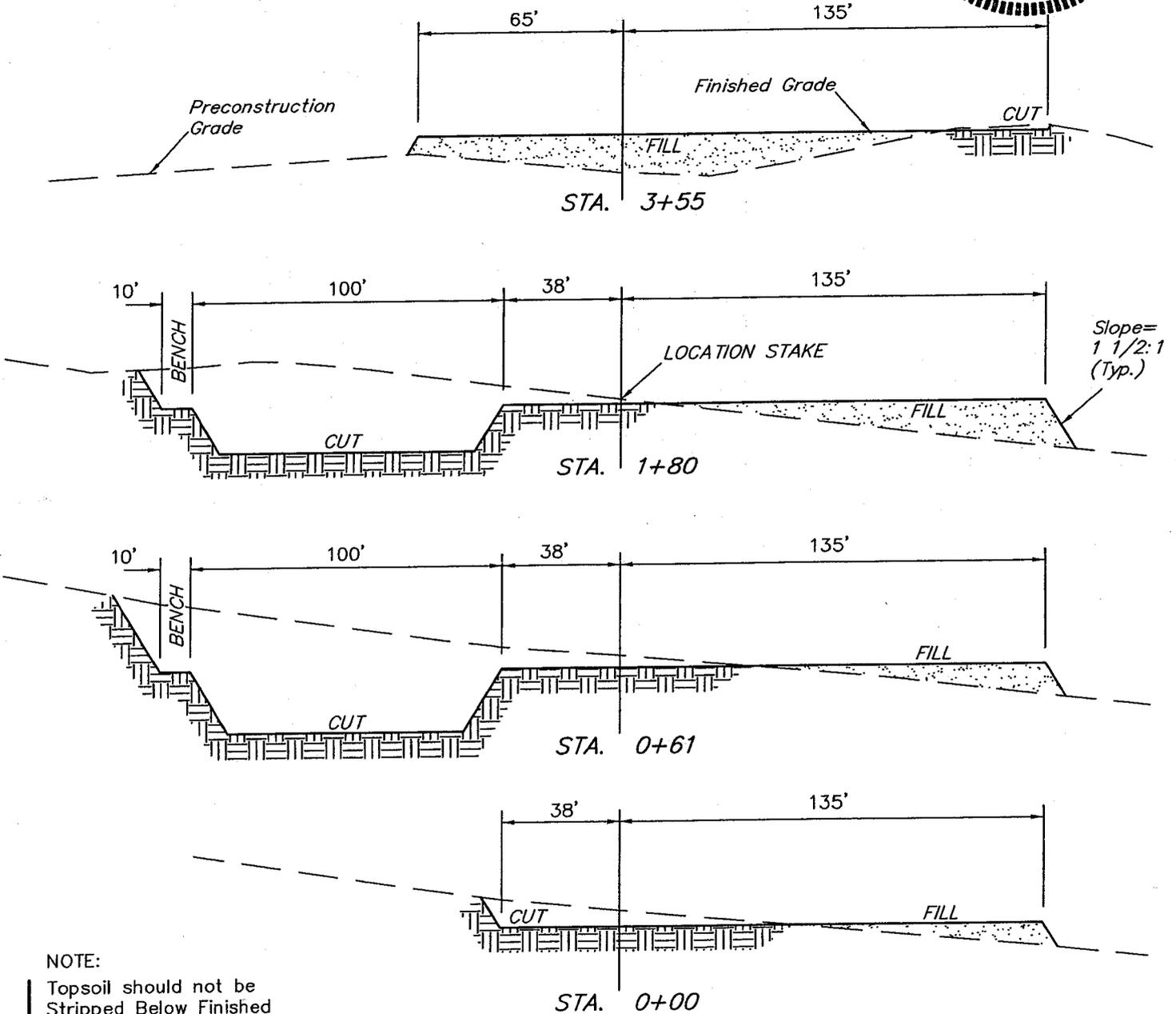
## TYPICAL CROSS SECTIONS FOR

LCU #9-36F  
SECTION 36, T10S, R20E, S.L.B.&M.  
1879' FSL 766' FEL



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

DATE: 09-18-07  
Drawn By: S.L.



**NOTE:**

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

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,780 Cu. Yds.
Remaining Location	= 7,730 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 9,510 CU.YDS.</b>
<b>FILL</b>	<b>= 5,740 CU.YDS.</b>

**\* NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

EXCESS MATERIAL	= 3,770 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,340 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 430 Cu. Yds.

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

# XTO ENERGY, INC.

LCU #9-36F

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 36, T10S, R20E, S.L.B.&M.

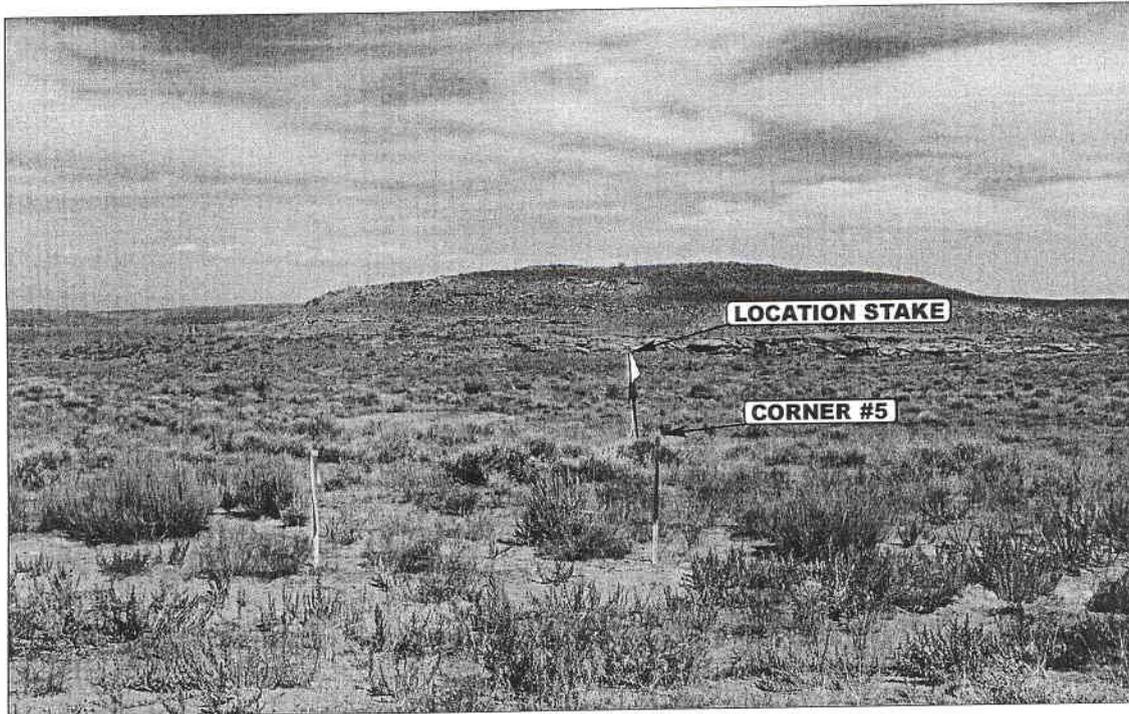


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY

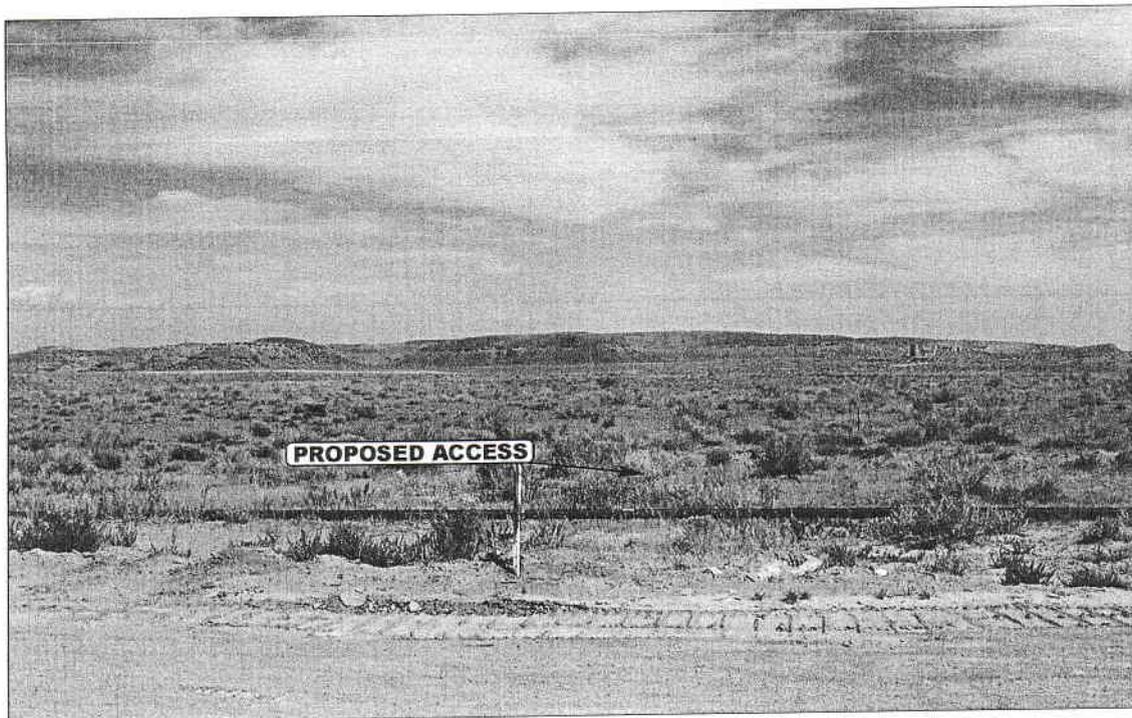


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

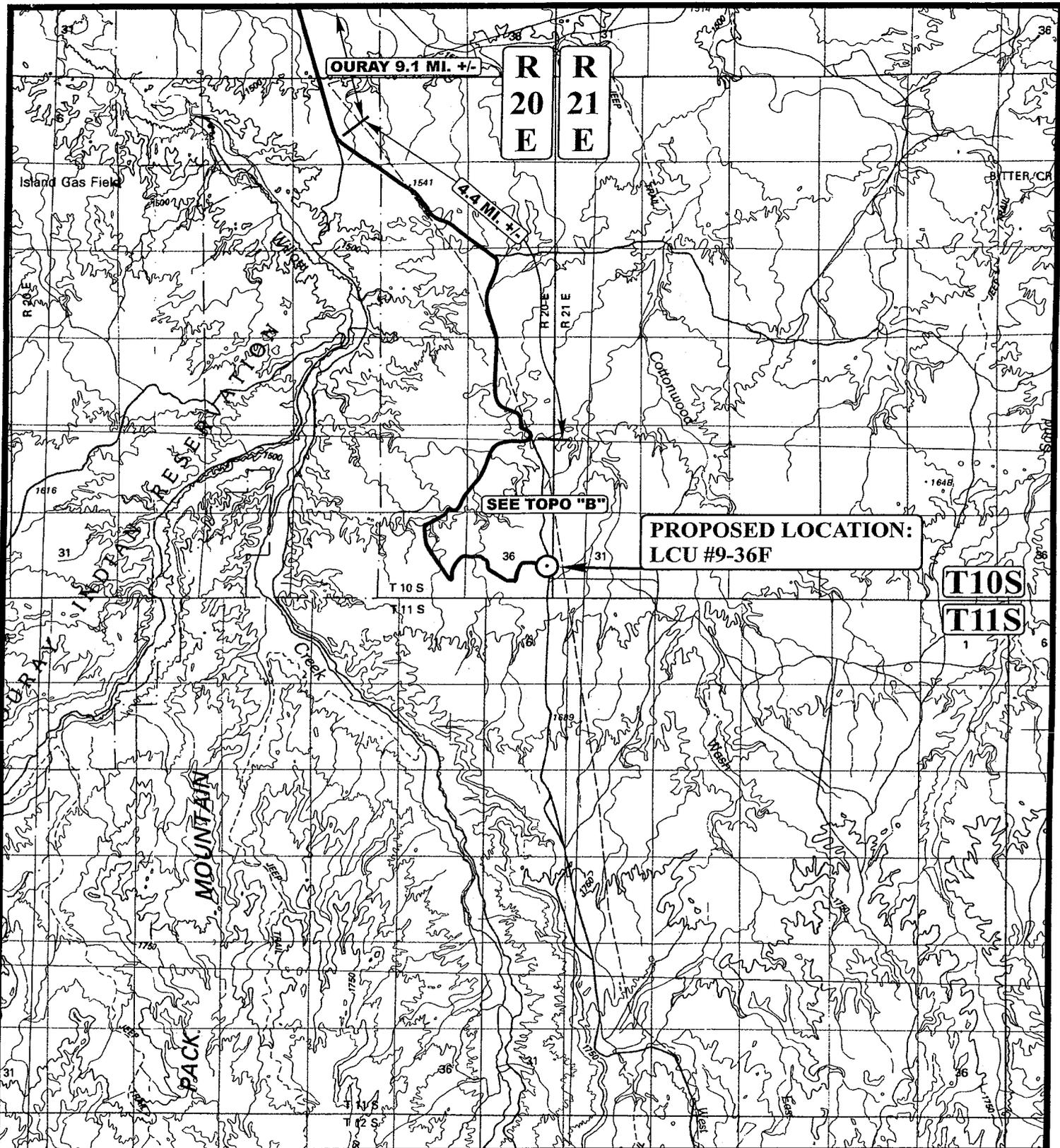
CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS	09	14	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: B.B.	DRAWN BY: Z.L.		REVISED: 00-00-00	



**LEGEND:**

⊙ PROPOSED LOCATION



**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL

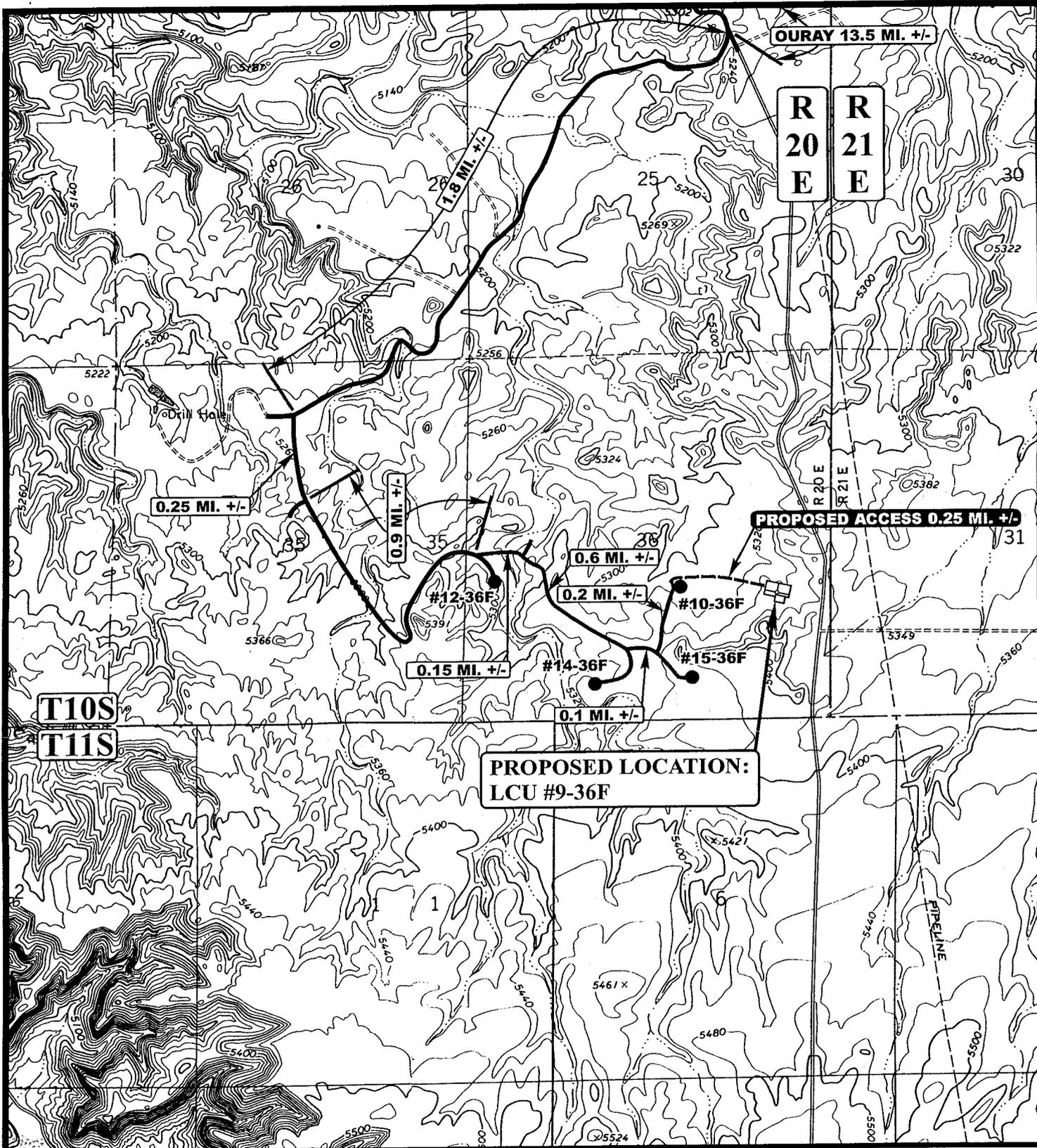


**Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 09 14 07  
 MAP MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: Z.L. REVISED: 00-00-00





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL

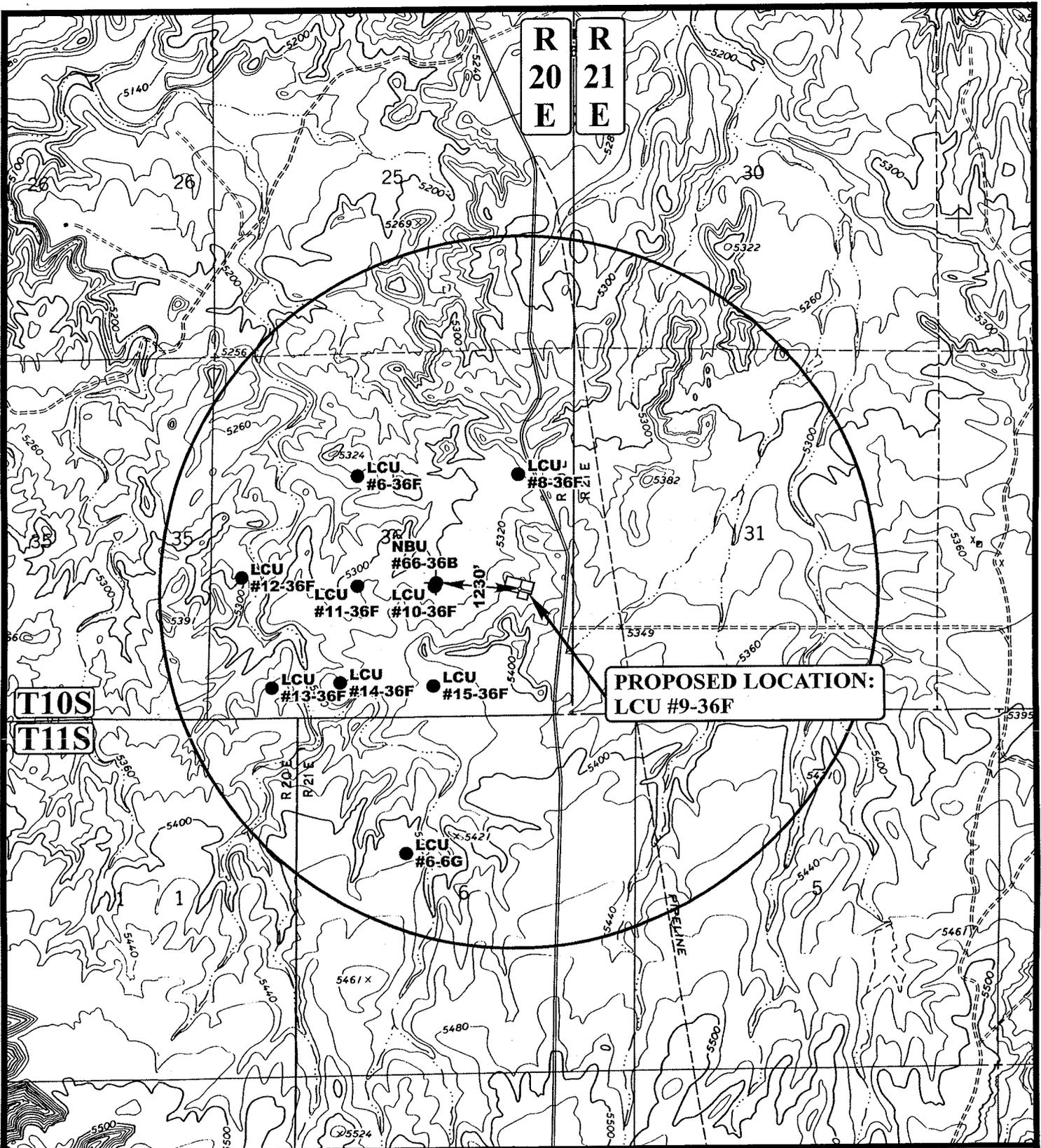


Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC 09 14 07  
 MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: Z.L. REVISED: 00-00-00





**PROPOSED LOCATION:  
LCU #9-36F**

**LEGEND:**

- ◌ DISPOSAL WELLS
- PRODUCING WELLS
- ◌ SHUT IN WELLS
- ◌ WATER WELLS
- ◌ ABANDONED WELLS
- ◌ TEMPORARILY ABANDONED



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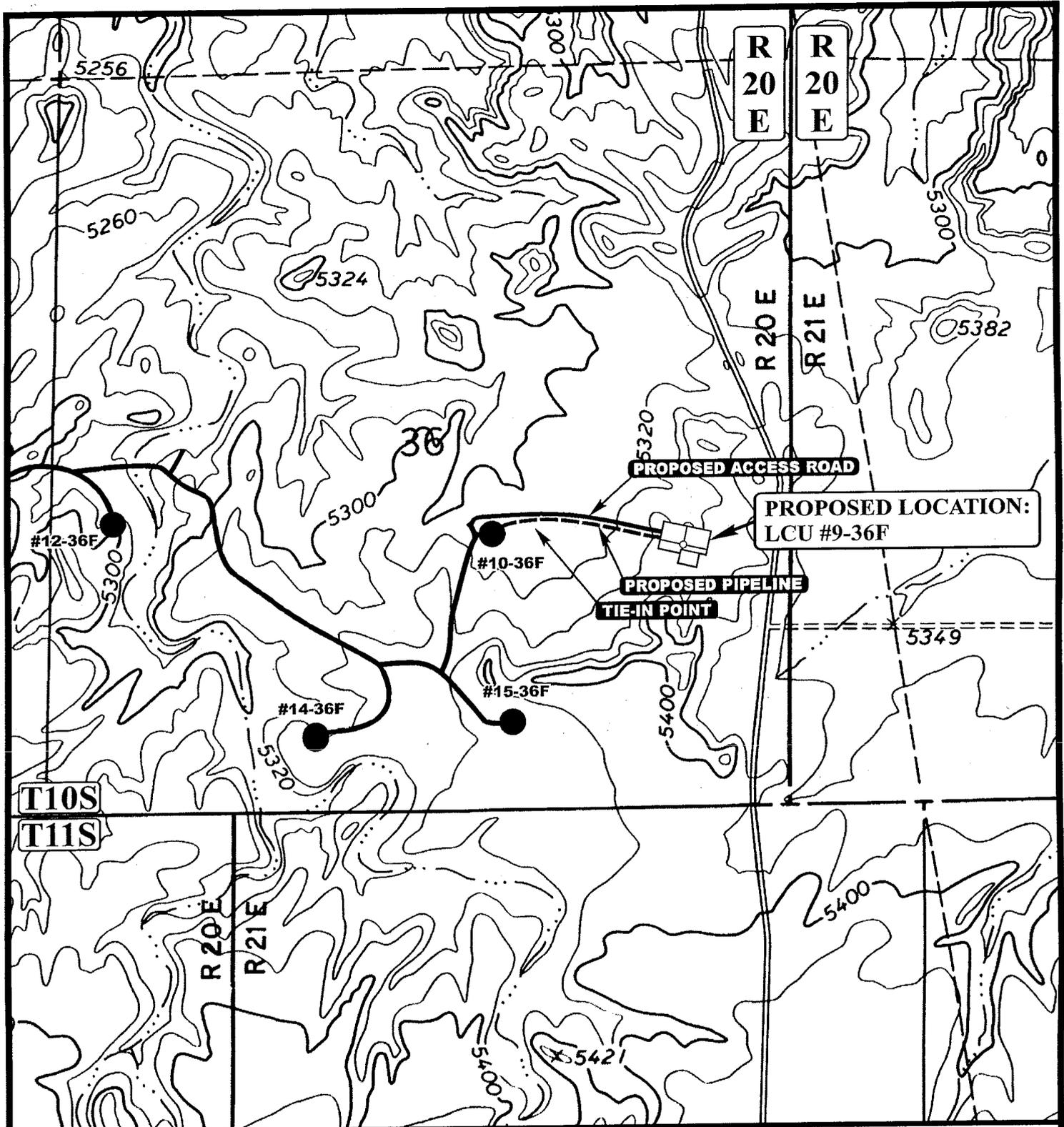


**XTO ENERGY, INC.**

**LCU #9-36F**  
**SECTION 36, T10S, R20E, S.L.B.&M.**  
**1879' FSL 766' FEL**

<b>TOPOGRAPHIC MAP</b>	<b>09</b>	<b>14</b>	<b>07</b>
	<small>MONTH</small>	<small>DAY</small>	<small>YEAR</small>
<small>SCALE: 1" = 2000'</small>		<small>DRAWN BY: Z.L.</small>	
		<small>REVISED: 00-00-00</small>	





APPROXIMATE TOTAL PIPELINE DISTANCE = 929' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE

**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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

TOPOGRAPHIC MAP 09 14 07  
 MONTH DAY YEAR

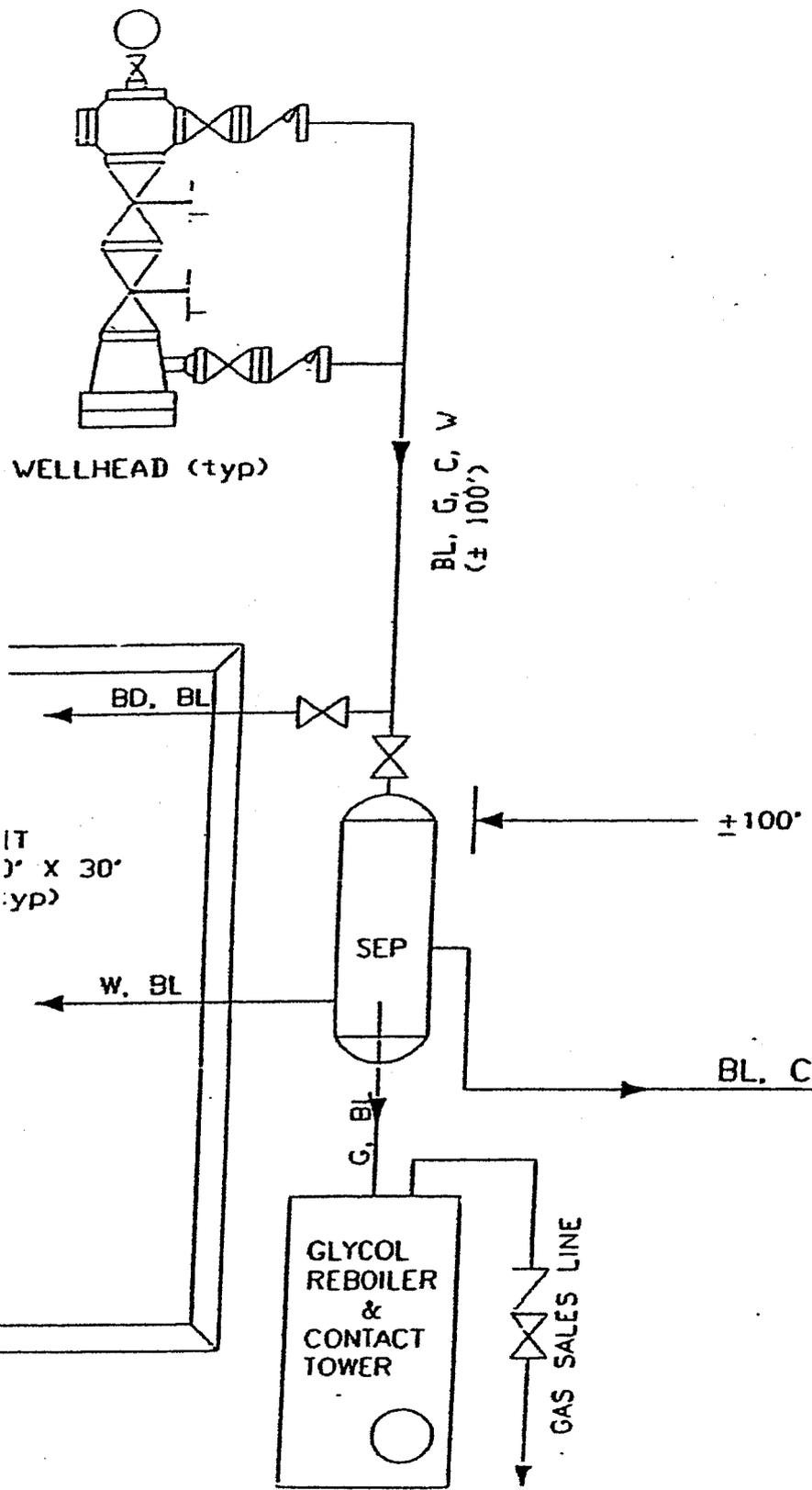
SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00



XTO ENERGY, INC.  
LCU #9-36F  
SECTION 36, T10S, 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 DIRECTION APPROXIMATELY 13.5 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 0.9 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF PROPOSED ACCESS TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY, THEN EASTERLY DIRECTION APPORXIMATELY 0.25 TO PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 48.75 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 DEPJ'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..

# XTO ENERGY INC.

LCU 9-36F

APD Data

November 6, 2007

Location: 1879' FSL & 766' FEL, Sec. 36, T10S,R20E County: Uintah State: Utah

GREATEST PROJECTED TD: 9050' MD  
APPROX GR ELEV: 5346'

OBJECTIVE: Wasatch/Mesaverde  
Est KB ELEV: 5360' (14' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 2200'	2200' to 9050'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCI 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 ±9050' 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'-9050'	9050'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.83	2.26	2.26

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 8-5/8" 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:

±362 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

TAIL:

225 sx of Type V cement (or equivalent) typically containing accelerator and LCM.

*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 ±9050' in 7.875" hole.

LEAD:

±461 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 1963 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 (9050') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9050') to 2200'.

**6. FORMATION TOPS:**

FORMATION	Sub-Sea Elev. (@SHL)	TVD (@SHL)
Wasatch Tongue	1,638	3,727
Green River		
Tongue	1,300	4,065
Wasatch*	1,170	4,195
Chapita Wells*	440	4,925
Uteland Buttes	-753	6,118
Mesaverde*	-1,483	6,848
Castlegate	N/A	N/A
TD**	-3685	9050

\* Primary Objective

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

A.

Formation	Expected Fluids	Well Depth Top
Wasatch Tongue	Oil/Gas/Water	3,727
Green River Tongue	Oil/Gas/Water	4,065
Wasatch*	Gas/Water	4,195
Chapita Wells*	Gas/Water	4,925
Uteland Buttes	Gas/Water	6,118
Mesaverde*	Gas/Water	6,848
Castlegate	Gas/Water	N/A

- A. 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.
- B. There are no known potential sources of H<sub>2</sub>S.
- C. Expected bottom hole pressures are between 4100 psi and 4600 psi.

8. **BOP EQUIPMENT:**

Surface will not utilize a bop stack.

Intermediate hole will be drilled using a diverter stack with rotating head rated at 250 psi w.p.

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:**

<b><u>Name</u></b>	<b><u>Title</u></b>	<b><u>Office Phone</u></b>	<b><u>Home Phone</u></b>
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

### CONDITIONS OF APPROVAL

**Name of Operator:** XTO Energy, Inc.  
**Address:** P.O. Box 1360; 978 North Crescent  
Roosevelt, Utah 84066  
**Well Location:** LCU 9-36F  
1879' FSL & 766' FEL, NE/4 SE/4,  
Section 36, T10S, 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 is pending at this time.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 13.42 miles southeast of Ouray, UT.
- 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 Little Canyon 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 is not anticipated for the access road since access presently exists to the lease boundary.

2. New or Reconstructed Access Roads:

- a. From the existing LCU 10-36F an access is proposed trending east approximately 0.25 miles to the proposed well site. The access consists of entirely new disturbance and crosses no significant drainages. A road design plan is not anticipated at this time.
- b. The proposed access road will consist of a 24' travel surface within a 30' disturbed area.
- c. SITLA approval to construct and utilize the proposed access road is requested with this application.
- d. A maximum grade of 10% will be maintained throughout the project with no cuts and fills required to access the well.

- e. No turnouts are proposed since the access road is only 0.25 miles long and adequate site distance exists in all directions.
- f. No low-water crossings and no culverts are anticipated. Adequate drainage structures will be incorporated into the road.
- g. No surfacing material will come from federal or Indian lands.
- h. No gates or cattle guards are anticipated at this time.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. 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 for Oil and Gas Exploration and Development, (1989).
- k. 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 Desert Brown /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 west side of the well site and traverse 929' west to the existing LCU 10-36F pipeline corridor
- i. 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 75' wide disturbed pipeline corridor. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction. A new buried pipeline corridor length of approximately 929' is associated with this well.
- j. An existing pipeline corridor upgrade is proposed from the existing LCU 10-36F location to the LCU compressor facility along the existing pipeline route.
- k. 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 single trench and within a 75' wide disturbed pipeline corridor. The use of the existing well site and access roads will facilitate the staging of the pipeline corridor upgrade. An upgrade to a 75' wide buried pipeline corridor of approximately 0.7 miles is associated with this application.
- l. The proposed pipeline and pipeline upgrade are contained within SITLA surface.
- m. 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 Attachment No. 3.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10447, Section 33, 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 south 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 west.
- c. The pad and road designs are consistent with SITLA specification
- d. A pre-construction meeting with responsible company representative, contractors, and the SITLA 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 Crested Wheat Grass (6 lbs / acre)
    - o Needle and Thread Grass (3 lbs / acre)
    - o Rice Grass (3 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 SITLA or the appropriate County Extension Office. On SITLA 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 SITLA. The SITLA recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

- a. Surface Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.
- b. Mineral Ownership – State of Utah – under the management of the SITLA -State Office, 675 East 500 South, Suite 500, Salt Lake, City, Utah 84102-2818; 801-538-5100.

12. Other Information:

- a. Operators Contact Information:

Title	Name	Office Phone	Mobile Phone	e-mail
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. AIA Archaeological 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 AIA Archaeological.
- 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.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's SITLA bond 104312-762. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Executed this 7<sup>th</sup> day of November, 2007.

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

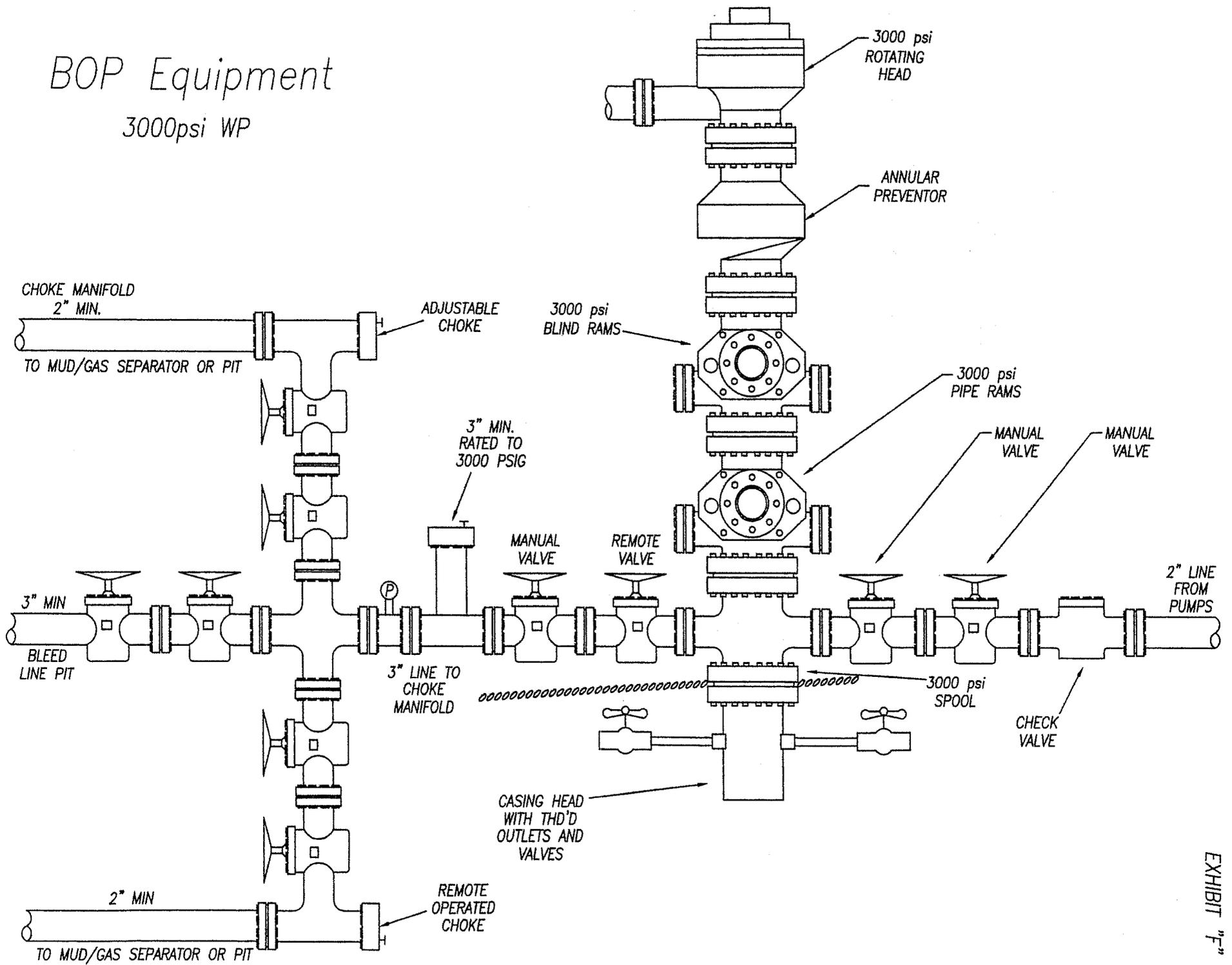


EXHIBIT "F"

XTO energy Corporation;  
Little Canyon Unit #9-36F: A Cultural  
Resource Inventory for a well  
its access and pipeline,  
Uintah County, Utah.

By  
James A. Truesdale

James A. Truesdale  
Principal Investigator

Prepared For  
XTO Energy Corporation  
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Prepared By  
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Utah Project # U-07-AY-1203(s)

October 9, 2007

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## Introduction

An Independent Archaeologist (AIA) was contacted by a representative of XTO Energy Corporation to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #9-36F well, its access and pipeline. The location of the project area is the NE/SE 1/4 of Section 36, T10S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #9-36F well's centerstake footage (Alternate #1) is 1879' FSL, 766' FEL. The proposed LCU #9-36F well's centerstake Universal Transverse Mercator (UTM) coordinate is Zone 12, North American Datum (NAD) 83, 06/18/142.71mE 44/17/609.87mN.

From the existing LCU #10-36F well, the proposed access and pipeline trend west 1500 feet (457.3 m) to the proposed LCU #9-36F well pad.

The surface and minerals of Section 36 T10S R20E is administered by the Utah School Institutional Trust Land Administration (SITLA). A total of 16.88 acres (10 block, 6.88 linear) was surveyed. The fieldwork was conducted on October 4, 2007 by AIA owner and principal investigator James Truesdale and AIA staff Dr. David V. Hill. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

## File Search

A file search was conducted by the Office of the Utah Division of State History (UDSH), Antiquities Section, Records Division on May 24 and again on October 2, 2007. An additional file search was conducted at the Vernal BLM office in March of 2006 by the author. An update of AIA's USGS 7.5'/1968 (photorevised 1987) Big Pack Mountain NW quadrangle map from the UDSH's Big Pack Mountain NW quadrangle base map occurred on November 8, 2003 and again on February 3, 2004. The UDSH SHPO GIS file search reported that fourteen previous projects (U-97-AY-810, U-98-AY-283, U-01-AY-319, U-04-AY-079, U-05-AY-290, U-05-AY-332, U-05-AY-1074, U-06-AY-129, U-06-AY-130, U-06-AY-131, U-06-AY-132, U-06-AY-133, U-06-AY-424 and U-06-AY-426) have been conducted in the general area (Section 36 of T10S R20E). In addition, the Utah SHPO GIS files search indicated that one site (42UN5227) had been previously recorded in Section 36 of T10S R20E.

Site 42UN5227 is located in the SW/SE ¼ of Section 36 of T10S R20E. Thus the site is located 1/4 mile to the north of the present project area. The site will not be impacted by subsequent construction of the proposed LCU #9-36F well, its access or pipeline.

## Environment

Physiographically, the project is located in the Little

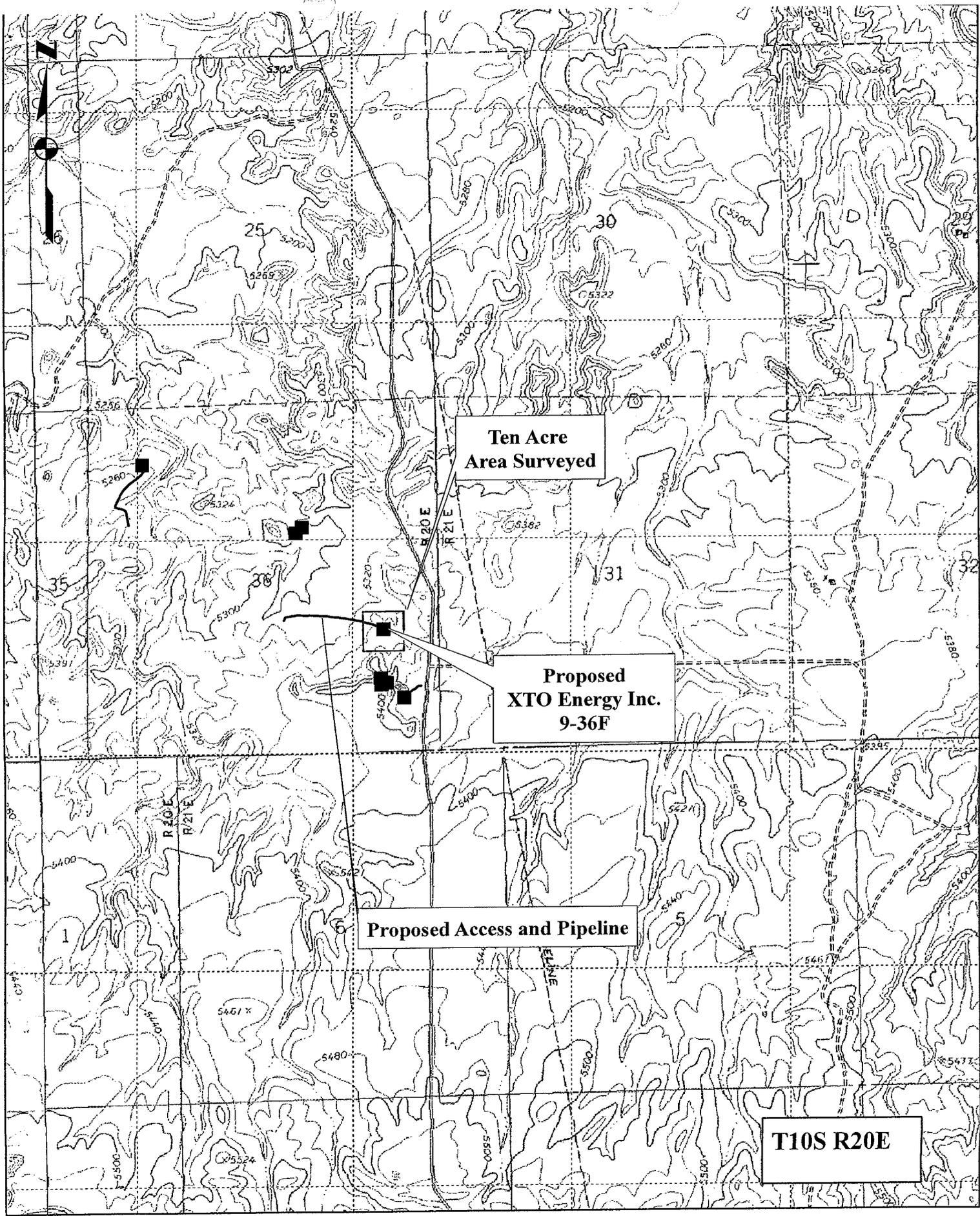


Figure 1. Location of the proposed XTO Energy Inc. 9-36F well, access and pipeline on 1968 7.5' USGS Quadrangle Map Big Pack Mountain NE, Uintah County, Utah.

Canyon Unit in the Uinta Basin, 14 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains. The topography is characteristic of sloping surfaces that incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations (Stokes 1986).

A thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks are exposed (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluviatile, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The immediate project area is situated on in the Willow Creek Canyon. The area is characterized as having steep ridges and/or buttes of relatively thick Uinta Formation sandstone, with thinner layers of clays and shale. The hills, ridges and buttes are dissected by several steep sided ephemeral drainage washes with wide flat alluvial plains. Portions of the desert hardpan and bedrock are covered with various sizes of residual angular to tabular pieces of eroding sandstone, clay and shale. Many of the higher hills and ridges exhibit ancient terrace (pediment) surfaces containing pebble and cobble gravel. Some of these pebbles and cobbles exhibit a dark brown to black desert varnish (patination). In addition, many of the hills and ridge slopes are covered with aeolian sand that may reach a depth of 100 to 150 cm.

Vegetation in the Little Canyon Unit area is characteristic of a low sagebrush community with shad scale and greasewood. Species observed in the project area include; big sagebrush (Artemesia tridentata), shadscale (Atriplex confertifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), wild buckwheat, (Erigonum ovvalifolium), desert trumpet (Erigonum inflatum), Indian rice grass (Oryzopsis hymenoides), western wheatgrass (Agropyron smithii), spiked wheatgrass (Agropyron sp.), crested wheatgrass (Agropyron cristatum), June grass (Koeleria cristata), cheat grass (Bromus tectorum), desert globemallow (Bromus tectorum), lupine (Lupinus sp.), larkspur (Delphinium sp.), Indian paintbrush (Castilleja chromosa), peppergrass (Lepidium perfoliatum), scalloped phacelia (Phacelia intergrifoliana), birdsage evening primrose (Oenothera deltoides), Russian thistle (Salsola kali), Russian knapweed (Centaurea repens), and prickly pear cactus (Opuntia sp.). In addition, a riparian community dominated by tall greasewood, cottonwood (Populus sp.), willow (Salix sp.), and salt cedar (tamerix) can be found along the Willow Creek Canyon bottom.

Little Canyon Unit (LCU) #9-36F

The proposed LCU #9-36F well pad is situated at the in a large open flat of a upland basin (Figures 2 and 3). A small knoll can be found adjacent immediately north of the proposed well pad. A small ephemeral drainage wash runs east to west across the northwestern portion of the well pad. The knoll and well pad location is part of an upland bench system of hills, ridges, benches and drainages that drain west to Willow Creek. A small southeast to northwest trending ephemeral drainage wash can be found to the south of the ridge. The sediments on the well location are colluvial in nature. These colluvial deposits consist of shallow ( $\leq 5$  cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with angular pieces of sandstone, clay and shale on the ridge tops and flat areas (Figure 3). Exposed and eroding tan to light brown sandstone and shale bedrock dominates the well pad landscape. Vegetation consists of low sagebrush, saltbush, rabbitbrush, greasewood, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus. The proposed well location is 5340 feet (1628.04 m) AMSL.

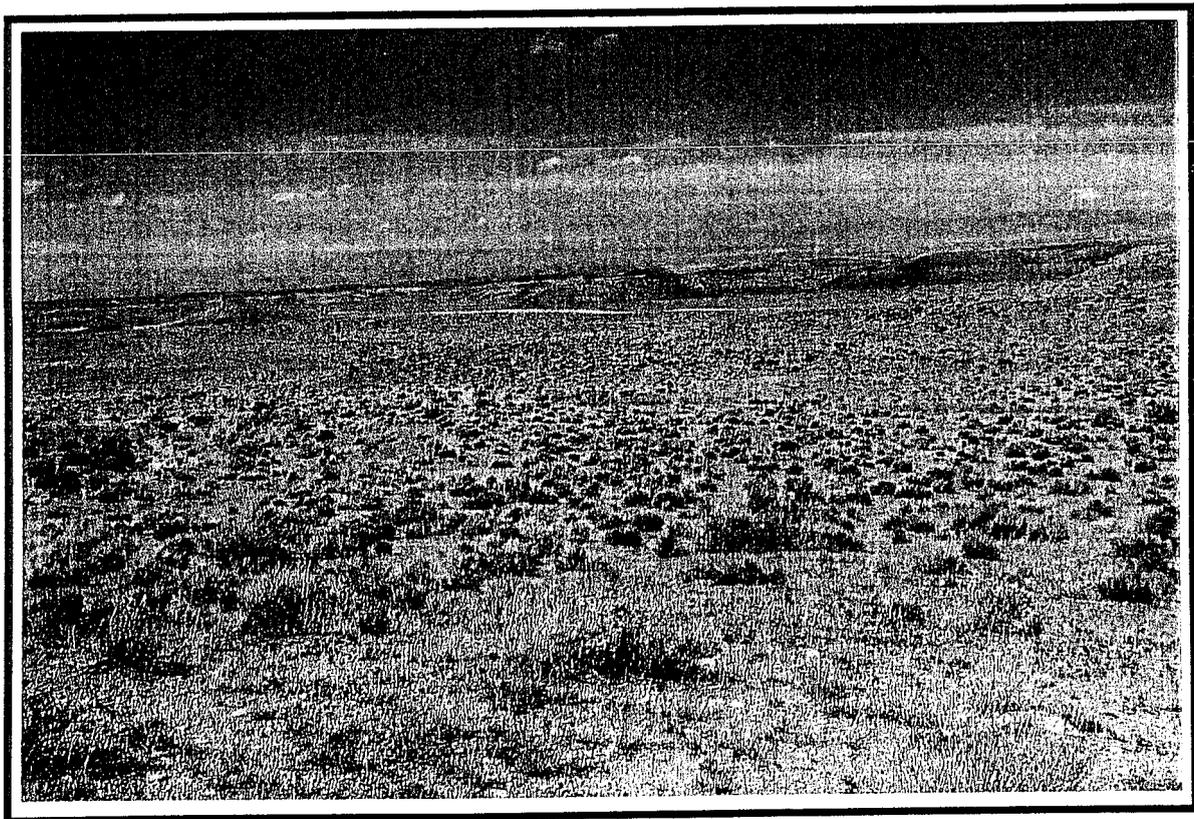


Figure 2. View to north at the proposed LCU #9-36F centerstake and well pad area.

From the existing Little Canyon Unit #10-3F well pad, the proposed access and pipeline parallel each other and trend 1500 feet (457.3 m) east to the proposed LCU #9-36F well. The access and pipeline cross a large broad open sagebrush flat to the proposed pipeline. Sediments along the pipeline consist of a shallow (5 to 10 cm), poorly sorted, loosely compacted, colluvial sandy clay loam. These colluvial deposits overlie sandstone, clay and shale bedrock. Vegetation along the access and pipeline is sparse and consists of low sagebrush, greasewood, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

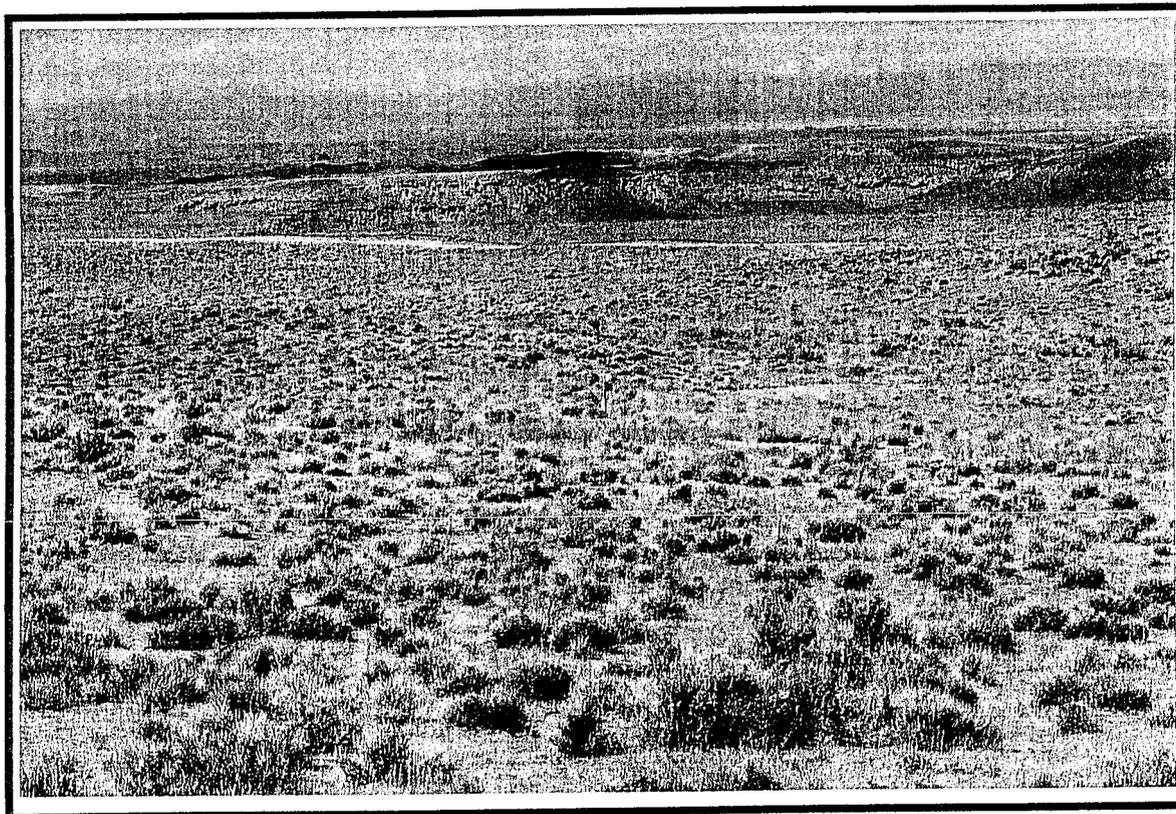


Figure 3. Closer view to west of the proposed Little Canyon Unit #9-36F well pad and the colluvial deposits on and surrounding the proposed LCU #9-36F well pad area.

### Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #9-36F well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline corridor surveyed is 1500 feet (457.3 m) long and 100 feet (30.4 m) wide, 3.44 acres. Thus, 6.88 linear acres was surveyed.

Geologic landforms (rockshelters, alcoves, ridge tops and

saddles) and areas of subsurface exposure (ant hills, blowouts, rodent holes and burrow, eroding slopes and cutbanks) were examined with special care in order to locate cultural resources (sites, isolates) and possibly help assess a site's sedimentary integrity and potential for the presence and/or absence of buried intact cultural deposits. All exposures of sandstone cliff faces, alcoves or rockshelters, and talus slopes were surveyed.

When cultural materials are discovered, a more thorough survey of the immediate vicinity is conducted in order to locate any associated artifacts and to determine the horizontal extent (surface area) of the site. If no other artifacts are located during the search then the initial artifact was recorded as an isolated find. At times, isolated formal tools (typical end scrapers, projectile points) were drawn and measured. The isolate was then described and its location plotted on a U.S.G.S. topographic map and UTM coordinates are recorded.

When sites are found an Intermountain Antiquities Computer System (IMACS) form was used to record the site. At all sites, selected topographic features, site boundaries, stone tools and cultural features (hearths, foundations, trash dumps and trails) are mapped. Sites were mapped with a Brunton compass, Trimble Geophysical 3 and/or Garmin E-Trex GPS units, and pacing off distances from a mapping station (datum, PVC with aluminum tag). All debitage is inventoried using standard recording techniques (Truesdale *et al* 1995:7) according to material type, basic flake type, and so on. Selected (mostly complete) stone tools and projectile points are drawn and measured. All features (rockart panel(s), hearths, foundations, trash dumps and trails) are measured and described, while selected features are either drawn or photographed.

Site location data is recorded by a Trimble GeoExplorer 3 Global Positioning System (GPS) and Garmin GPS III Plus and/or a E-Trex GPS. Site elevation and Universal Transverse Mercator (UTM) grid data, its Estimated Position Error (EPE) and Dilution of Precision (DOP) were recorded. Using the GPS data, the site location was then placed on a USGS 7.5' quadrangle map.

## Results

A total of 16.88 (10 block, 6.88 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO energy Corporation Little Canyon Unit (LCU) #9-36F well, and along its access and pipeline. No cultural resources (sites, isolates) were recorded on or around the proposed LCU #9-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing

oil and gas field service roads in the Little Canyon Unit area.

### Recommendations

A total of 16.88 (10 block, 6.88 linear) acres were surveyed for cultural resources by AIA within and around the proposed XTO Energy Corporation Little Canyon Unit #9-36F well, and along its access and pipeline. No cultural resources (sites, isolates) were recorded on or around the proposed LCU #9-36F or along its access and pipeline.

A moderate scatter of modern trash (plastic bottles, sanitary food cans, miscellaneous metal, wire, green, brown and clear glass bottles and bottle fragments, foam insulation, etc.) can be found on and surrounding the existing well pads and along the existing oil and gas field service roads in the Little Canyon Unit area.

Sediments on and surrounding the proposed well pad, and along its access and pipeline are shallow. Therefore, the possibility of buried and/or intact cultural materials on the proposed well pad or along its access and pipeline is low. No cultural resources (historic properties, isolates) were recorded during the survey for the proposed LCU #9-36F well, its access and pipeline. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #9-36F well pad, its access, and pipeline.

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1995 Cultural Resource Inventory of the Proposed Ouray Gravel Pit Location, Uintah-Ouray Ute Reservation, Uintah County, Utah. Report prepared for U & W Construction, Ft. Duchesne, Utah by AIA, Laramie, Wyoming.

# PALEONTOLOGY EVALUATION SHEET

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**PROJECT:** XTO Energy, Inc. – LCU #9-36F

**LOCATION:** 15 miles south of Ouray, Uintah County, Utah. Section 36, 1879' FSL 766' FEL, T10S, R20E, S.L.B.&M.

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

**DATE:** October 2, 2007

**GEOLOGY/TOPOGRAPHY:** Rock outcrops in this area are the lower part of Uinta Formation, Eocene age. The access road and pipeline come in from the west from LCU #10-36F. There are some rock exposures along the road and pipeline, but mostly alluvial cover of sand and rock fragments. Area is of fairly low relief. The well pad is on a sand covered north slope. There is a sandy knoll with sandstone fragments at the northwest corner.

**PALEONTOLOGY SURVEY:** YES [ X ] NO Survey [ ] PARTIAL Survey [ ]  
Pedestrian Survey of Uinta Formation rock exposures at the well pad as well as along the road and pipeline.

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

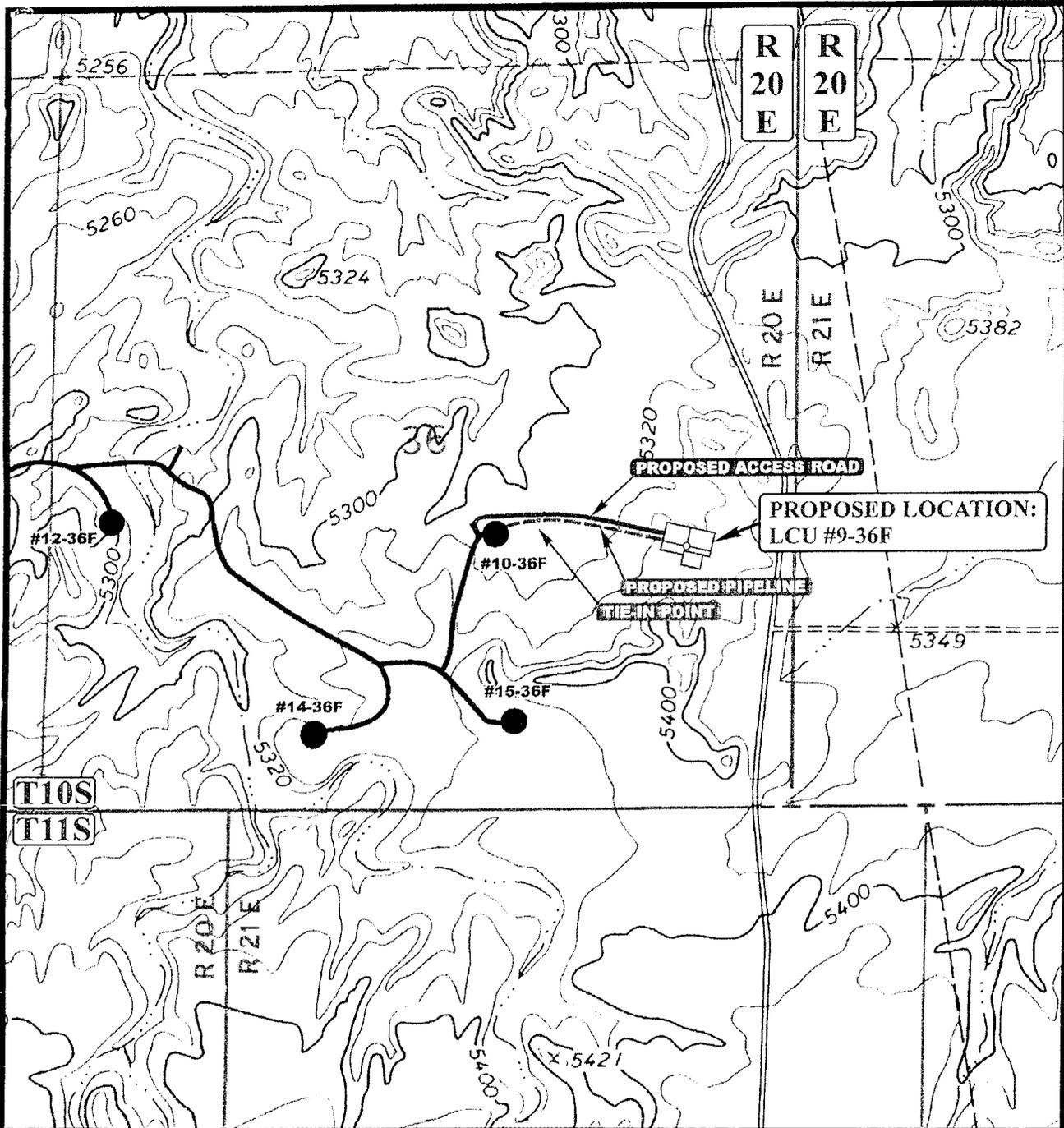
**PALEONTOLOGY SENSITIVITY:** HIGH [ ] MEDIUM [ ] LOW [ X ] (PROJECT SPECIFIC)

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

There is always some potential for discovery of significant paleontological resources in the Uinta Formation. If significant vertebrate fossils (mammals, crocodiles, complete turtle shells, 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 # 07-355, BLM paleontological Resources Permit # UT-S-05-02,  
Utah Professional Geologist License – 5223011-2250.



APPROXIMATE TOTAL PIPELINE DISTANCE = 929' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE

**XTO ENERGY, INC.**

LCU #9-36F  
 SECTION 36, T10S, R20E, S.L.B.&M.  
 1879' FSL 766' FEL



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

TOPOGRAPHIC MAP 09 14 07  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00



# DIVISION OF OIL, GAS AND MINING

## **SPUDDING INFORMATION**

Name of Company: XTO ENERGY INC

Well Name: LCU 9-36F

Api No: 43-047-39783 Lease Type: STATE

Section 36 Township 10S Range 20E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # RATHOLE

## **SPUDDED:**

Date 09/01/08

Time 10:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by RICK OMAN

Telephone # (435) 828-1456

Date 09/02/08 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: XTO ENERGY INC. Operator Account Number: N 2615  
Address: 382 CR 3100  
city AZTEC  
state NM zip 87410 Phone Number: (505) 333-3100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739783	LCU 9-36F		NESE	36	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	17080	9/1/2008			9/22/08	
Comments: WSMVD							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

WANETT MCCAULEY

Name (Please Print)

*Wanett McCauley*

Signature

FILE CLERK

9/3/2008

Title

Date

(5/2000)

RECEIVED

SEP 03 2008

DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

1. TYPE OF WELL		5. LEASE DESIGNATION AND SERIAL NUMBER:	
OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	OTHER _____	ML-47391
2. NAME OF OPERATOR:		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
XTO ENERGY INC.		N/A	
3. ADDRESS OF OPERATOR:		7. UNIT or CA AGREEMENT NAME:	
382 CR 3100		LITTLE CANYON UNIT	
CITY AZTEC STATE NM ZIP 87410		8. WELL NAME and NUMBER:	
PHONE NUMBER: (505) 333-3100		LCU 9-36F	
4. LOCATION OF WELL		9. API NUMBER:	
FOOTAGES AT SURFACE: 1879' FSL & 766' FEL		4304739783	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 10S 20E S		10. FIELD AND POOL, OR WILDCAT:	
COUNTY: UINTAH		NATURAL BUTTES	
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: 9/1/2008	<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>SPUD</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. spudded 20" conductor hole 9/01/2008 & drilled to 40'. Set 14" conductor csg @ 40' & cemented to surface w/5 yds Redimix cement.

Drilling ahead. . . .

NAME (PLEASE PRINT) <u>WANETT MCCAULEY</u>	TITLE <u>FILE CLERK</u>
SIGNATURE <u><i>Wanett McCauley</i></u>	DATE <u>9/3/2008</u>

(This space for State use only)

**RECEIVED**  
**SEP 08 2008**  
**DIV. OF OIL, GAS & MINING**

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

FORM 9

<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>ML-47391</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.			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>
1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			7. UNIT or CA AGREEMENT NAME: <b>LITTLE CANYON UNIT</b>
2. NAME OF OPERATOR: <b>XTO ENERGY INC.</b>			8. WELL NAME and NUMBER: <b>LCU 9-36F</b>
3. ADDRESS OF OPERATOR: <b>382 CR 3100</b>		CITY <b>AZTEC</b> STATE <b>NM</b> ZIP <b>87410</b>	9. API NUMBER: <b>4304739783</b>
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>1879' FSL &amp; 766' FEL</b>			10. FIELD AND POOL, OR WILDCAT: <b>NATURAL BUTTES</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NESE 36 10S 20E S</b>			COUNTY: <b>UINTAH</b>
			STATE: <b>UTAH</b>

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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: <b>9/30/2008</b>	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<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/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"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <b>SEPTEMBER '08 MONTHLY REPORT</b>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
**XTO Energy has nothing to report for the period of 9/01/2008 thru 9/30/2008.**

NAME (PLEASE PRINT) <b>JENNIFER M. HEMBRY</b>	TITLE <b>FILE CLERK</b>
SIGNATURE <i>Jennifer M. Hembry</i>	DATE <b>10/3/2008</b>

(This space for State use only)

**RECEIVED**  
**OCT 06 2008**  
DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47391
			6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
2. NAME OF OPERATOR: XTO ENERGY INC.			7. UNIT or CA AGREEMENT NAME: LITTLE CANYON UNIT
			8. WELL NAME and NUMBER: LCU 9-36F
3. ADDRESS OF OPERATOR: 382 CR 3100                      CITY AZTEC                      STATE NM                      ZIP 87410		9. API NUMBER: 4304739783	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
		PHONE NUMBER: (505) 333-3100	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1879' FSL & 766' FEL                      COUNTY: UINTAH  QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 10S 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 checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: 10/31/2008	<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 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: OCTOBER 08
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	MONTHLY REPORT

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

Attached is XTO Energy's monthly report for the period of 10/01/2008 thru 10/31/2008.

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

NAME (PLEASE PRINT) <u>JENNIFER M. HEMBRY</u>	TITLE <u>FILE CLERK</u>
SIGNATURE <u>Jennifer M. Hembry</u>	DATE <u>11/5/2008</u>

(This space for State use only)

EXECUTIVE SUMMARY REPORT

10/1/2008 - 10/31/2008
Report run on 11/4/2008 at 12:50 PM

Little Canyon Unit 09-36F - Natural Buttes, 36, 10S, 20E, Uintah, Utah, ,
Roosevelt,

AFE: 716202

Objective: Drill & Complete a gas well

10/1/2008

Cont stringing out 146', welded 126' of 4" .188W FB welded sales line. Compl
8-4", 4-2" & 3-3" welds. Compl x-raying 8-4", 4-2" & 3-3" welds. SDFN.

10/6/2008

Little Canyon Unit 09-36F

Compl welding 4" .188W FB welded gas line to 3" sales mtr. Compl pigging
main 4" .188W FB welded gas line. Compl inst of 4" gas ancor. Compl inst of
2 barricades @ road approach. Compl 9-4" welds. Compl x-raying 8-4" & 1-2"
welds. SDFN.

10/7/2008

Little Canyon Unit 09-36F

Compl tie in of exist 4" .188W steel bare gas line to 6" .188W steel bare gas
line. Compl inst of pipeline. Project Compl.

10/16/2008

Little Canyon Unit 09-36F

MIRU Casedhole Solutions WLU. RIH & perf stg #1 w/3-1/8" csg guns loaded
w/Titan EXP-3323-361T, 22.7 gm chrgs, fr/8,832' - 8,834', 8,907' - 8,910',
8,954' - 8,958', 8,960' - 8,962', w/2 JSPF (120 deg phasing, 0.36" EHD,
35.63" pene., 26 holes). POH LD perf guns. RDMO WLU. SWI & SDFN. Rpts
suspnd until further activity.

10/21/2008

Little Canyon Unit 09-36F

SICP 0 psig. MIRU HES and Casedhole Solutions. Held safety mtg & PT all
surface lines to 7,500 psig, held gd. W/MV stg #1 perforated w/3-1/8" csg
guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs, fr/8,832' - 8,834', 8,907'
- 8,910', 8,954' - 8,958', 8,960' - 8,962', w/2 JSPF (120 deg phasing, 0.36"
EHD, 35.63" pene., 26 holes). BD MV stg #1 perfs w/2% KCL wtr and EIR. A.
MV perfs f/8,832' - 8,962' w/700 gals of 7-1/2% NEFE HCL acid and 39 Bio-BS @
12 bpm dwn 5-1/2" csg. ISIP 3,366 psig, surge balls off perfs, wait 5".
Frac'd MV stg #1 perfs fr/8,832' - 8,962', dwn 5-1/2" csg w/38,595 gallons
wtr, 55Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 70,500#
BASF 20/40 sd, coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,831 psig,
5" SIP 3,649 psig, used 759,000 mscf of N2, ATP 4,663 psig, 919 BLWTR. RIH &
set 6K CBP @ 8,810'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns
loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf MV stage #2 intv
fr/8,556' - 8,560', 8,608' - 8,610', 8,644' - 8,648', 8,688' - 8,692', 8,698'
- 8,700', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 37 holes).
POH & LD perf guns. BD MV stg #2 perfs w/2% KCL wtr and EIR. A. MV perfs
f/8,556' - 8,700' w/1,000gals of 7-1/2% NEFE HCL acid and 56 Bio-BS @ 12 bpm
dwn 5-1/2" csg. ISIP 3,408 psig, surge balls off perfs, wait 5". Frac'd MV
stg #2 perfs fr/8,556' - 8,700', dwn 5-1/2" csg w/47,069 gallons wtr, 55Q N2
foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 85,600# BASF 20/40
sd, coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,709 psig, 5" SIP 3,353
psig, used 1,084,000 mscf of N2, ATP 5,091 psig, 1,121 BLWTR. RIH & set 6K
CBP @ 8,530'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded
w/ Titan EXP-3323-361T, 22.7 gm chrgs.

EXECUTIVE SUMMARY REPORT

10/1/2008 - 10/31/2008  
Report run on 11/4/2008 at 12:50 PM

Perf MV stage #3 intv fr/8,338' - 8,342', 8,352' - 8,356', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 18 holes). POH & LD perf guns. Spearhead 1,000 gals 7.5% HCL and frac'd MV stg #3 perfs fr/8,338' - 8,356', dwn 5-1/2" csg w/19,021 gallons wtr, 60Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 29,500# BASF 20/40 sd, coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,225 psig, 5" SIP 2,960 psig, used 466,000 mscf of N2, ATP 4,453 psig, 453 BLWTR. SWI & SDFN. 2,493 BLWTR ttl.

10/23/2008

----- Little Canyon Unit 09-36F -----  
RIH & set 6K CBP @ 8,080'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf MV stage #4 intv fr/7,912' - 7,922', 7,930' - 7,934', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 30 holes). POH & LD perf guns. Spearhead 1,000 gals 7.5% HCL and frac'd MV stg #4 perfs fr/7,912' - 7,934', dwn 5-1/2" csg w/22,838 gallons wtr, 60Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 50,600# BASF 20/40 sd, coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,280 psig, 5" SIP 3,071 psig, used 531,000 mscf of N2, ATP 4,056 psig, 544 BLWTR. RIH & set 6K CBP @ 7,870'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf MV stage #5 intv fr/7,571' - 7,574', 7,596' - 7,599', 7,746' - 7,750', 7,778' - 7,782', 7,796' - 7,800', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 41 holes). POH & LD perf guns. BD CW stg #5 perfs w/2% KCl wtr and EIR. A. MV perfs f/7,571' - 7,800' w/1,150gals of 7-1/2% NEFE HCL acid and 62 Bio-BS @ 12 bpm dwn 5-1/2" csg. ISIP 1,305 psig, surge balls off perfs, wait 5". Frac'd MV stg #5 perfs fr/7,571' - 7,800', dwn 5-1/2" csg w/42,357 gallons wtr, 65Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 117,100# BASF 20/40 sd, coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,332 psig, 5" SIP 3,204 psig, used 1,541,000 mscf of N2, ATP 4,864 psig, 1,009 BLWTR. RIH & set 6K CBP @ 7,410'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf MV stage #6 intv fr/7,095' - 7,098', 7,176' - 7,171', 7,260' - 7,270', 7,286' - 7,288', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 42 holes). POH & LD perf guns. BD MV stg #6 perfs w/2% KCl wtr and EIR. A. MV perfs f/7,095' - 7,288' w/1,200gals of 7-1/2% NEFE HCL acid and 63 Bio-balls @ 12 bpm dwn 5-1/2" csg. ISIP 3,403 psig, surge balls off perfs, wait 5". Frac'd MV stg #6 perfs fr/7,095' - 7,288', dwn 5-1/2" csg w/42,637 gallons wtr, 70Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 140,000# BASF 20/40 sd, the last 350 sks sd coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,521 psig, 5" SIP 3,113 psig, used 1,957,000 mscf of N2, ATP 4,901 psig, 1,015 BLWTR.

EXECUTIVE SUMMARY REPORT

10/1/2008 - 10/31/2008
Report run on 11/4/2008 at 12:50 PM

RIH & set 6K CBP @ 6,920'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf MV stage #7 intv fr/6,803' - 6,813', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 21 holes). POH & LD perf guns. Spearhead 1,000 gals 7-1/2% HCL and frac'd MV stg #7 perfs fr/6,803' - 6,813', dwn 5-1/2" csg w/15,167 gallons wtr, 70Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 35,600# BASF 20/40 sd, the last 90 sks sd coated w/ Expedite Lite. Max sd conc 3 ppg, ISIP 3,287 psig, 5" SIP 2,935 psig, used 461,000 mscf of N2, ATP 4,268 psig, 361 BLWTR. RIH & set 6K CBP @ 6,580'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf UB stage #8 intv fr/6,308' - 6,312', 6,472' - 6,480', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 26 holes). POH & LD perf guns. Spearhead 1,000 gal 7-1/2% HCL and frac'd UB stg #8 perfs fr/6,308' - 6,480', dwn 5-1/2" csg w/19,032 gallons wtr, 70Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 46,900# BASF 20/40 sd, the last 115 sks sd coated w/ Expedite Lite. Max sd conc 4 ppg, ISIP 2,707 psig, 5" SIP 2,485 psig, used 623,000 mscf of N2, ATP 3,985 psig, 453 BLWTR. RIH & set 6K CBP @ 6,090'. PT plg to 6,000 psig, gd tst. RIH w/ 3-1/8" csg guns loaded w/ Titan EXP-3323-361T, 22.7 gm chrgs. Perf CW stage #9 intv fr/5,964' - 5,968', 5,972' - 5,976', w/2 JSPF (120 deg phasing, 0.36" EHD, 35.63" pene., 18 holes). POH & LD perf guns. Spearhead 1,000 gal and frac'd CW stg #9 perfs fr/5,964' - 5,976', dwn 5-1/2" csg w/12,848 gallons wtr, 70Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 39,300# BASF 20/40 sd, the last 90 sks sd coated w/ Expedite Lite. Max sd conc 4 ppg, ISIP 2,390 psig, 5" SIP 2,339 psig, used 407,000 mscf of N2, ATP 3,780 psig, 306 BLWTR. RIH & set 6K CBP @ 5,410'. SWI & SDFN. 6,181 BLWTR ttl. Rpts suspd until further activity.

10/28/2008 Little Canyon Unit 09-36F SICP 500 psig. MIRU Temples WS #2. BD well. ND frac vlv, NU BOP. PU & TIH w/4-3/4" rock tooth, safety sub, BRS, 2-3/8" SN & 165 jts 2-3/8", J-55, 4.7#, EUE 8rd tbg. RU pwr swivel. DO 5-1/2" CBP's @ 5,410', 6,090' (CO 27' sd abv plg) & 6,580' (CO 50' sd abv plg). Circ well cln. TOH w/20 jts tbg, EOT @ 5,933'. SWI & SDFN. 6,181 BLWTR.

10/29/2008 Little Canyon Unit 09-36F SITP 0 psig, SICP 2,450 psig. Cont to TIH w/4-3/4" rock tooth bit, SS, BRS, SN, & 2-3/8" tbg. Estb circ & DO 5-1/2" CBP's @ 6,920' (45' sd abv plg), 7,410' (CO 40' sd abv plg), 7,870' (CO 60' sd abv plg), 8,080' (CO 25' sd abv plg), 8,530' (CO 35' sd abv plg), & 8,810' (CO 60' sd abv plg). Contd TIH & CO 116' fill to PBSD @ 9,266'. Circ well cln. TOH w/33 jts, EOT @ 8,203'. WO tbg landing orders. SWI & SDFN. 6,181 BLWTR.

10/30/2008 Little Canyon Unit 09-36F SITP 0 psig, SICP 2,000 psig. TIH w/32 jts tbg. TOH & LD 20 jts of tbg. Ld 261 jts 2-3/8", 4.7#, J-55, 8rd tbg on hgr w/EOT @ 8,608' & SN @ 8,606'. RU swb tls. RIH w/ XTO's 1.90" tbg broach to SN @ 8,606' (no ti spts). POH & LD broach. ND BOP. NU WH. Ppd off bit & 1/2 of BRS @ 1,900 psig. RDMO rig and equip. Ttl fld ppd 420 bbls, Ttl fld recd 1,300 bbls, 5,301 BLWTR ttl. Turn well over to F. bk crew. FTP 1,750 psig, SICP 1,800 psig. F. 0 BO, 268 BLW, 7 hrs, FTP 1,750 - 1,200 psig, SICP 1,800 - 1,650 psig, 40-24/64" ck. Rets of tr sd, gas, wtr. 5,033 BLWTR. CW/UB/MV perfs fr/5,964' - 8,962'.

Little Canyon Unit 09-36F

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

1. Type of Well  
 Oil Well  Gas Well  Other

**CONFIDENTIAL**

2. Name of Operator

XTO Energy Inc.

3a. Address

382 CR 3100 Aztec, NM 87410

3b. Phone No. (include area code)

505-333-3100

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1879' FSL & 766' FEL NESE SEC 36-T10S-R20E S MERIDIAN

5. Lease Serial No.

ML-47391

6. If Indian, Allottee or Tribe Name

N/A

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

LITTLE CANYON UNIT

8. Well Name and No.

LCU 9-36F

9. API Well No.

43-047-39783

10. Field and Pool, or Exploratory Area

NATURAL BUTTES

11. County or Parish, State

UINTAH UT

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input 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 checked="" 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>1ST DELIVERY</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. first delivered this well to Questar Gas Management @ 10:30 a.m., Monday, 12/1/2008.

IFR 1,572 MCF.

XTO Allocation Meter: #RS1521RS

**RECEIVED**

**DEC 02 2008**

**DIV. OF OIL, GAS & MINING**

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

BARBARA A. NICOL

Title REGULATORY CLERK

Signature

*Barbara A. Nicol*

Date 12/2/2008

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

Approved by

Title

Date

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

**DOGDM COPY**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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.

1. TYPE OF WELL			5. LEASE DESIGNATION AND SERIAL NUMBER:	
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____			ML-47391	
2. NAME OF OPERATOR:			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
XTO ENERGY INC.			N/A	
3. ADDRESS OF OPERATOR:			7. UNIT or CA AGREEMENT NAME:	
382 CR 3100			LITTLE CANYON UNIT	
CITY AZTEC STATE NM ZIP 87410			8. WELL NAME and NUMBER:	
			LCU 9-36F	
4. LOCATION OF WELL			9. API NUMBER:	
FOOTAGES AT SURFACE: 1879' FSL & 766' FEL			4304739783	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 10S 20E S			10. FIELD AND POOL, OR WILDCAT:	
			NATURAL BUTTES	
			COUNTY: UINTAH	
			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: 11/30/2008	<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>DECEMBER 08</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<u>MONTHLY REPORT</u>

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

Attached is XTO Energy's monthly report for the period of 11/01/2008 thru 11/30/2008.

NAME (PLEASE PRINT) <u>JENNIFER M. HEMBRY</u>	TITLE <u>REGULATORY CLERK</u>
SIGNATURE <u>Jennifer M. Hembry</u>	DATE <u>12/5/2008</u>

(This space for State use only)

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**DEC 09 2008**

**DIV. OF OIL, GAS & MINING**

EXECUTIVE SUMMARY REPORT

11/1/2008 - 11/30/2008  
Report run on 12/3/2008 at 4:45 PM

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Little Canyon Unit 09-36F - Natural Buttes, 36, 10S, 20E, Uintah, Utah, ,  
Roosevelt, Flowing

AFE: 716202

Objective: Drill & Complete a gas well

11/1/2008 FTP 950 psig, SICP 1,650 psig. F. 0 BO, 342 BLW, 24 hrs, FTP 950 - 1,100  
psig, SICP 1,650 - 1,450 psig, 24/64" ck. Rets of tr sd, gas, wtr. 4,055  
BLWTR ttl. CW/UB//MV perfs fr/5,964' - 8,962'.

11/2/2008 ===== Little Canyon Unit 09-36F =====  
FTP 1,100 psig, SICP 1,450 psig. F. 0 BO, 256 BLW, 24 hrs, FTP 1,100 - 1,100  
psig, SICP 1,450 - 1,350 psig, 24/64" ck. Rets of tr sd, gas, wtr. 3,799  
BLWTR ttl. CW/UB//MV perfs fr/5,964' - 8,962'.

11/3/2008 ===== Little Canyon Unit 09-36F =====  
FTP 1,100 psig, SICP 1,300 psig. F. 0 BO, 155 BLW, 22 hrs, FTP 1,100 - 1,350  
psig, SICP 1,300 - 1,500 psig, 24-18/64" ck. Rets of tr sd, gas, wtr. 3,644  
BLWTR ttl. CW/UB//MV perfs f/5,964' - 8,962'. SWI @ 16:00.

===== Little Canyon Unit 09-36F =====

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

6. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-47391

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

7. UNIT or CA AGREEMENT NAME:  
LITTLE CANYON UNIT

8. WELL NAME and NUMBER:  
LCU 9-36F

9. API NUMBER:  
4304739783

10. FIELD AND POOL, OR WLD CAT:  
NATURAL BUTTES

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.

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

2. NAME OF OPERATOR:  
XTO ENERGY INC.

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

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: 1879' FSL & 766' FEL COUNTY: UINTAH  
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 36 10S 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: 12/31/2008	<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: DECEMBER 08 MONTHLY REPORT
	<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.  
Attached is XTO Energy's monthly report for the period of 12/01/2008 thru 12/31/2008.

NAME (PLEASE PRINT) JENNIFER M. HEMBRY TITLE REGULATORY CLERK  
SIGNATURE *Jennifer M. Hembry* DATE 1/5/2009

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JAN 12 2009

DIV. OF OIL, GAS & MINING

**EXECUTIVE SUMMARY REPORT**

12/1/2008 - 12/31/2008  
Report run on 1/2/2009 at 3:52 PM

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**Little Canyon Unit 09-36F - Little Canyon Unit 09-36F**

Section 36-10S-20E, Uintah, Utah, Roosevelt

Objective: Drill & Complete a gas well  
Date First Report: 12/1/2008  
Last Casing String:  
Method of Production: Flowing

12/1/2008

The Little Canyon Unit 9-36F was first delivered to Questar Gas Management through the Waynes Ck CDP @ 10:30 a.m., Monday, 12/1/08. IFR 1,572 MCF.

This well is in Uintah County, Utah.  
This well is on Route #212.  
This is a WA/MV well.

Accounting #165749.  
AFE #716202.  
XTO allocation Meter # RS1521RS.  
RTU Group 10 #64.  
Waynes Check CDP Meter #387989.  
Tank # F1226.

===== Little Canyon Unit 09-36F =====

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

ML-47391

1a. Type of Well  Oil Well  Gas Well  Dry  Other  
 b. Type of Completion:  New Well  Work Over  Deepen  Plug Back  Diff.Resvr.,  
 Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

LITTLE CANYON UNIT

8. Lease Name and Well No.

LCU #9-36F

9. API Well No.

43-047-39783

2. Name of Operator

XTO Energy Inc.

3. Address

382 CR 3100 Aztec, NM 87410

3a. Phone No. (include area code)

505-333-3100

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

At surface 1879' FSL & 766' FEL

At top prod. interval reported below

At total depth SAME

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10. Field and Pool, or Exploratory

NATURAL BUTTES WASATCH-MV

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

NESE SEC 36-10S-R20E

12. County or Parish

UINTAH

13. State

UT

14. Date Spudded

9/1/08

15. Date T.D. Reached

9/21/08

DIV. OF OIL, GAS & MINING  
 D & A  Ready to Prod.

12/1/08

17. Elevations (DF, RKB, RT, GL)\*

5346' GL

18. Total Depth: MD

9378'

TVD

19. Plug Back T.D.: MD

9266'

TVD

20. Depth Bridge Plug Set: MD

TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each).

GR/CCL/CBL, COMP2, CN, CAL, DL

22. Was well cored?  No  Yes (Submit analysis)

Was DST run  No  Yes (Submit report)

Directional Survey?  No  Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt.(#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No.of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14/A252A	36.75#	SURF	56.5'		125		0	
12-1/4"	9.6/J-55	36#	SURF	2251'		600		0	
7-7/8"	5.5/S-80	17#	SURF	9330'		1120		2390'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	8608'							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH-MV	5964'	8962'	5964' - 8962'	0.36"	259	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5964' - 8962'	A. 9,050 gals 7-1/2% HCl acid. Frac'd w/259,564 gals wtr 55Q-70Q N2 foam gelled fld (Delta-R Foam Frac), 2% KCl wtr carrying 615,100# BASF 20/40 sd.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/1/08	12/3	24	→	0	1138	80			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
16/64"	2026	2236	→	0	1138	80		PRODUCING	

28a. Production-Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			→						

(See instructions and spaces for additional data on page 2)

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28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

**TO BE SOLD**

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	973
				MAHOGENY BENCH	1806
				WASATCH TONGUE	3725
				UTELAND LIMESTONE	4052
				WASATCH	4194
				CHAPITA WELLS	4903
				UTELAND BUTTE	6175
				MESAVERDE	7049

32. Additional remarks (include plugging procedure):

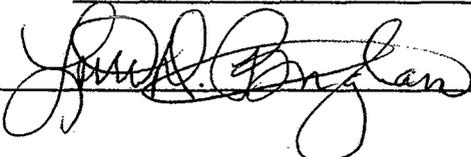
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd)   
  Geologic Report   
  DST Report   
  Directional Survey  
 Sundry Notice for plugging and cement verification   
  Core Analysis   
  Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) LORRI D. BINGHAM

Title SR. REGULATORY COMPLIANCE TECH

Signature 

Date 2/16/09

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.

<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> ML-47391
<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> LITTLE CANYON
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> LCU 9-36F
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047397830000
<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> 1879 FSL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 36 Township: 10.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES  <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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/8/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER:   PARAFFIN TREATMEN

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

XTO Energy Inc. performed a paraffin treatment on this well per the following: 4/6/2010: MIRU Red Hot Oil Service. Pumped 20 bbls and 15 gallons of Nalco's paraffin dispersant in TBG @ 110 degrees. Pumped 60 bbls w/40 gallons of Nalco's paraffin dispersant in tbg @ 110 degrees. SWI. RDMO Red hot oil service. 4/7/2010: MIRU C & S Swabbing SWU. RU & RIH w/ 2 3/8 wax knife. SN @ 8,606' FS. BFL 5,800' FS SWU 0 BO, 20 BW, 5 runs, 4 hrs, FFL @ 5,950' FS. KO FLWG SITP 370 psig, SICP 710 psig. RWTP @ 2:30 p. m., RDMO C & S Swabbing SWU. 4/8/2010: MIRU Delsco SLU. SN @ 8,607'. PU & RIH w/ 2 3/8 wax knife. Ran down to 540'. Cut slow from 540' to 8,607'. POH & LD Wax knife. RWTP @ 12:00 p.m., 4/8/10. RDMO Delsco SLU.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 April 15, 2010

<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/14/2010	

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

FORM 6

**ENTITY ACTION FORM**

Operator: XTO ENERGY INC. Operator Account Number: N 2615  
 Address: 382 CR 3100  
city AZTEC  
state NM zip 87410 Phone Number: (505) 333-3100

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739783	LCU 9-36F		NESE	36	10S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
C	17080	14619 ✓	9/1/2008		12/1/2008 <i>2008</i>		
<b>Comments:</b> WSMVD = WSMVD							<i>- 8/24/10</i>

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740078	LCU 12-16HX (RIGSKID)		NWSW	16	11S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
C	16815	14619 ✓	4/25/2008		12/1/2008 <i>9/8/2008</i>		
<b>Comments:</b> MVRD = WSMVD							<i>- 8/24/10</i>

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<b>Comments:</b>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

BARBARA A. NICOL

Name (Please Print) Barbara A. Nicol  
 Signature \_\_\_\_\_  
 REGULATORY COMP. TECH 8/18/2010  
 Title \_\_\_\_\_ Date \_\_\_\_\_

**RECEIVED**

**AUG 23 2010**

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>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-47391
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> LITTLE CANYON
<b>1. TYPE OF WELL</b> Gas Well	<b>8. WELL NAME and NUMBER:</b> LCU 9-36F	
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047397830000	
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3159 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1879 FSL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 36 Township: 10.0S 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		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/13/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" 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 checked="" 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 type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="CLEAN OUT"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
XTO Energy Inc. has cleaned out & performed acid treatments on this well per the attached summary report.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/24/2011	

**Little Canyon Unit 09-36F**

**5/24/2011:** MIRU. RIH w/1.5" sinker bars on SL, tgd @ 8,526'. POH w/SL & sinker bars. Ppd dwn tbg w/20 bbls TFW & kld tbg. ND WH & NU BOP. TIH w/21 jts 2-3/8" tbg, tgd fill @ 9,233'. TOH w/164 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 3,838'. SWI w/csg flwg to sales. SDFN.

**5/25/2011:** Contd TOH w/117 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg, 2-3/8" SN & 1/2 BRS. Tbg showed lt external sc BU fr/6,865' - 7,983' & hvy external, internal sc BU fr/7,983' - EOT @ 8,608'. Smpl taken for analysis. LD the last 19 jts of prod tbg due to hvy internal & external sc BU. TIH w/4-3/4" bit, 5-1/2" csg scr, 2-3/8" SN & 271 jts 2-3/8" tbg, tgd sc bridge @ 8,932'. Tgd multiple spots through out MV perms. TOH w/40 jts 2-3/8" tbg. EOT @ 7,483'. SWI w/csg flwg to sales. SDFN.

**5/26/2011:** TIH w/21 jts 2-3/8" tbg, tgd sc bridge @ 8,932'. RU pwr swvl & AFU. Estab circ. CO sc bridge fr/8,932' - 8,950' ( 18' ). Fell free for 264' to 9,214'. Contd CO 27' fill to 9,241', ( Hard drlg ). Circ well cln for 2 hrs. Ppd dwn tbg w/15 bbls TFW & kld tbg. RD pwr swvl & AFU. TOH w/281 jts 2-3/8" tbg, 2-3/8" SN & 5-1/2" csg scr w/4-3/4" bit. SWI & SDFN.

**5/27/2011:** Ppd dwn csg w/30 bbls TFW & KW. PU & TIH w/5-1/2" TS RBP, 5-1/2" HD PKR, 2-3/8" SN & 275 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. Set tls below BTM perf @ 8,962'. PT tbg & tls to 3000 psig w/28 bbls TFW, 10". Tstd ok. Bd tbg press. Rlsd pkr & TOH w/74 jts 2-3/8" tbg. EOT @ 6,700'. SWI & SDFHWE.

**5/31/2011:** TIH w/74 jts 2-3/8" tbg. MIRU Frac-Tech ac equ. PT surf equip to 4,500 psig. Acidize perms 5,964' - 8,962' in 9 stages w/3,000 gal 15% HCl containing mutual solvent, iron sequesterant & corrosion inhibitor. Isolated each stage w/plug & pkr. TOH w/50 jts, EOT 4,361'. SWI & SDFN.

**6/1/2011:** Contd TOH w/100 jts 2-3/8" tbg, 2-3/8" SN, 5-1/2" HD PKR & 5-1/2" TS PLG. TIH w/2-3/8" mule shoe col, 2-3/8" SN & 272 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 8,960'. RU & RIH w/XTO 1.906 tbg broach to SN. No ti spots. RU & RIH w/swb tls. BFL @ 5,000' FS. S, 0 BO, 39 BLW, 9 runs, 4 hrs. Smpl taken every hr. Gray gas cut wtr, ltl solids ( sc ), ltl O, PH 1. FFL @ 5,300' FS. SICP 660 psig. SWI & SDFN.

**6/2/2011:** RU & RIH w/swb tls. BFL @ 5,600' FS. S, 0 BO, 63 BLW, 16 runs, 6 hrs. Smpl taken every hr. Gray gas cut wtr, ltl solids, ltl O, PH 6. FFL @ 6,700' FS. SICP 700 psig. Well KO. Well Flwd for 50" & died. Recd 9 BLW, ltl solids & tr of O, PH 6. SWI & SDFN.

**6/3/2011:** RU & RIH w/swb tls. BFL @ 6,200' FS. S, 0 BO, 20 BLW, 5 runs, 2-1/2 hrs. Smpl taken every hr. Gray gas cut wtr, ltl solids, ltl O, PH 7. FFL @ 6,700' FS. SICP 700 psig. Well KO. Well Flwd for 2 hrs & died. Recd 8 BLW, ltl solids & tr of O, PH 7. Contd swbg. RIH w/swb tls. BFL @ 6,200' FS. S, 0 BO, 36 BLW, 11 runs, 4 hrs. Smpl taken every hr. Gray gas cut wtr, v, ltl solids, ltl O, PH 7. FFL @ 6,700' FS. SICP 740 psig. SWI & SDFWE.

**6/6/2011:** RU & RIH w/swb tls. BFL @ 6,000' FS. S, 0 BO, 21 BLW, 6 runs, 2-1/2 hrs. Smpl taken every hr. Gray gas cut wtr, ltl solids, ltl O, PH 7. FFL @ 6,400' FS. SICP 700 psig. KWO. Well Flwd for 1 hr & died. Recd 4 BLW, ltl solids & tr of O, PH 7. Bd well. TOH LD w/95 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 5,859'. Ld tbg on hgr. ND BOP & NU WH. RWTP turn well to sales flwg up tbg. FTP 147 psig, SICP 283 psig. 1194.50 MCF. RDMO.

**6/13/2011:** MIRU WL. RU & RIH w/ WL & 1-11/16" PSPT, PGMC - A/B, PFCS - A, logging tl. Log fr/ 5,859'-9,020'. Made 6 passes through perms & 3 stabilization stops for logs. POH & LD logging tls. RDMO WL. RWTP. FR for CO. St well tst.

=====Little Canyon Unit 09-36F=====

<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> ML-47391
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b> LITTLE CANYON
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> LCU 9-36F
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>9. API NUMBER:</b> 43047397830000
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3159 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1879 FSL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 36 Township: 10.0S 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		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/13/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT 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 checked="" type="checkbox"/> OTHER	
		OTHER: <input type="text" value="CHEMICAL TREATME"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. has completed a chemical treatment on this well per the attached summary report.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/2/2011

**Little Canyon Unit 09-36F**

**7/6/2011:** MIRU. SDFN.

**7/7/2011:** RU & RIH w/swb t/s. BFL @ 5,900' FS. S, 0 BO, 58 BLW, 12 runs, 5 hrs. Smpl taken every hr. Gray gas cut wtr,v, ltl solids, tr of O. FFL @ 6,200' FS.

**7/8/2011:** RU & RIH w/swb t/s. BFL @ 6,300' FS. S, 0 BO, 20 BLW, 4 runs, 2 hrs. Smpl taken every hr. Gray gas cut wtr, v, ltl solids, tr of O. FFL @ 6,500' FS. SICP 510 psig. Well KO. FTP 125 - 80 psig, SICP 500 - 425 psig. Flwd well to tst tank through 2" In, for 2 hrs. Recd 14 BW, tr of O. Ckd well back w/64/24 ck. FTP 80 - 150 psig, SICP 400 - 450 psig. Well flwd for 2 hrs, Recd 6 BW, tr of O. SWI. MIRU Nalco chem equ. Ppd dwn csg w/20 gal, H2s chem trtmnt. RDMO Nalco chem equ. Wait 2 hrs. SITP 330 psig, SICP 550 psig. Open tbg to sale & well died. RIH w/swb t/s. BFL @ 6,800' FS. S, 0 BO, 4 BLW, 1 run, 1/2 hr. FFL @ 6,800' FS. SICP 550 psig. Well KO. FTP 140 psig, SICP 514 psig. RWTP. RDMO.

**7/13/2011:** MIRU SLU. SN @ 8,571'. Chase BHBSw/SV and bypass plngr to SN. POH LD Broach. SITP 322 psig. SICP 651 psig. RWTP @ 2:00 p.m., 7/13/11. RDMO SLU.

=====Little Canyon Unit 09-36F=====

<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> ML-47391
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b> LITTLE CANYON
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> LCU 9-36F
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>9. API NUMBER:</b> 43047397830000
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	<b>PHONE NUMBER:</b> 505 333-3159 Ext	<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1879 FSL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 36 Township: 10.0S 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		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/1/2012  <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 checked="" 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 type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="PWOP"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. intends to put this well on a pumping unit to increase production.		
<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 11/7/2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<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>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-47391
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b> LITTLE CANYON
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>8. WELL NAME and NUMBER:</b> LCU 9-36F
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>9. API NUMBER:</b> 43047397830000
<b>PHONE NUMBER:</b> 505 333-3145 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1879 FSL 0766 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 36 Township: 10.0S 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/18/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="PWOP"/>

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

XTO Energy Inc. has put this well on a pumping unit per the attached summary report.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
February 21, 2012**

<b>NAME (PLEASE PRINT)</b> Barbara Nicol	<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/16/2012	

**Little Canyon Unit 09-36F**

**10/14/2011:** MIRU Surveyors. RIH w/GR Survey @ 100' stations fr/surf - 8,475' & projected survey to 9,238' fr/last survey pt. RDMO.

**1/9/2012:** MIRU.

**1/10/2012:** MIRU hot oil trk, flshd TCA w/30 bbls htd 2% KCl wtr. TOH w/tbg. Med sc BU on ext of btm jt & SN @ 8,549'. TIH w/4-3/4" bit, 5-1/2" csg scr & tbg.

**1/11/2012:** Cont to TIH w/tbg. Tgd fill @ 9,202' (242' below btm perf).

**1/12/2012:** TOH w/tbg, csg scr & bit. TIH w/prod tbg. TIH w/5-1/2" TAC & 2-3/8" tbg. SN @ 9,006', TAC/EOT @ 9,019'.

**1/13/2012:** RU swb t/s. BFL @ 5,500' FS. S. 0 BO. 42 BLW. 8 runs, 4 hrs. FFL @ 5,800' FS. RD swb t/s.

**1/16/2012:** Sptd 5 gal corr inhib dwn tbg. TIH w/2" x 1-1/4" x 16' X 19' RHBC pmp, 1-1/4" sbs, 3/4" rods, & 1-1/4" PR. Seat pmp. LS pmp. No PA.

**1/17/2012:** TOH w/rods & pmp. Flsh tbg w/35 BW. PU & loaded pmp @ surf. TIH w/2" x 1-1/4" x 16' X 19' RHBC pmp, 1-1/4" sbs, 3/4" rods, & 1-1/4" PR.

**1/18/2012:** Seat pmp. LS pmp. GPA. RWTP ppg @ 3.5 SPM x 120" SL. RDMO.

=====Little Canyon Unit 09-36F=====

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<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.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-47391
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: LITTLE CANYON
2. NAME OF OPERATOR: XTO ENERGY INC		8. WELL NAME and NUMBER: LCU 9-36F
3. ADDRESS OF OPERATOR: PO Box 6501, Englewood, CO, 80155		9. API NUMBER: 43047397830000
PHONE NUMBER: 303 397-3727 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1879 FSL 0766 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESE Section: 36 Township: 10.0S Range: 20.0E Meridian: S		COUNTY: UINTAH
		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 Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/15/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT 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 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 Inc. performed an Acid Treatment on this well per the following: 12/7/15: MIRU ac equip. Ppd dwn tbg w/500 gal's 15% HCL ac w/add's, flsh w/20 bbls TPW mixed w/5 gal's H2's scavenger. Ppd dwn csg w/500 gal's 15% HCL ac w/add's, flsh dwn csg w/20 bbls TPW. RDMO ac equip. 12/9/15: RIH w/swb tls. 12/10/15: RIH w/swb tls. 12/15/15: PU & loaded pmp @ surf. Seated pmp & SWO. PT tbg to 500 psig w/15 BW. LS pmp to 1000 psig w/rig. GPA. HWO.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 December 23, 2015

NAME (PLEASE PRINT) Malia Villers	PHONE NUMBER 303 397-3670	TITLE Lead Permitting Analyst
SIGNATURE N/A	DATE 12/23/2015	