

January 16, 2009

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 2-16H**

*Surface Location: 74' FSL & 1,057' FEL, SE/4 SE/4, Sec. 9,  
Target Location: 660' FNL & 1,980' FEL, NW/4 NE/4, Sec. 16,  
T11S, 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 Federal surface and SITLA mineral directional 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 any uncommitted tracts or the unit boundary. 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" - Directional Drilling Plan with Directional Survey
- 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.

RECEIVED  
JAN 22 2009

DIV. OF OIL, GAS & MINING

cc: Jim Davis, SITLA  
Fluid Mineral Group, BLM—Vernal Field Office (with BLM surface use request sundry notice)  
Ken Secrest, XTO Energy, Inc. (with BLM surface use request sundry notice)

**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: <b>ML-48772</b>	6. SURFACE: <b>Federal</b>
1A. TYPE OF WORK: <b>DRILL</b> <input checked="" type="checkbox"/> <b>REENTER</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>			7. IF INDIAN, ALLOTTEE OR TRIBE NAME: <b>N/A</b>	
B. TYPE OF WELL: <b>OIL</b> <input type="checkbox"/> <b>GAS</b> <input checked="" type="checkbox"/> <b>OTHER</b> _____ <b>SINGLE ZONE</b> <input type="checkbox"/> <b>MULTIPLE ZONE</b> <input checked="" type="checkbox"/>			8. UNIT or CA AGREEMENT NAME: <b>Little Canyon Unit</b>	
2. NAME OF OPERATOR: <b>XTO Energy, Inc.</b>			9. WELL NAME and NUMBER: <b>LCU 2-16H</b>	
3. ADDRESS OF OPERATOR: <b>PO Box 1360</b> CITY <b>Roosevelt</b> STATE <b>UT</b> ZIP <b>84066</b>		PHONE NUMBER: <b>(435) 722-4521</b>	10. FIELD AND POOL, OR WILDCAT: <b>undesigned</b>	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>74' FSL &amp; 1,057' FEL, SE/4 SE/4, Sec. 9,</b> AT PROPOSED PRODUCING ZONE: <b>660' FNL &amp; 1,980' FEL, NW/4 NE/4, Sec. 16,</b>			11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  <b>9</b> <b>11S 20E S</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>15.26 miles south of Ouray, Utah</b>			12. COUNTY: <b>Uintah</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>74'</b>	16. NUMBER OF ACRES IN LEASE: <b>640</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>		
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>2,550'</b>	19. PROPOSED DEPTH: <b>9,502</b>	20. BOND DESCRIPTION: <b>SITLA Blanket 104312 762</b>		
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>5,510' GR</b>	22. APPROXIMATE DATE WORK WILL START: <b>12/15/2008</b>	23. ESTIMATED DURATION: <b>14 days</b>		

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	
<b>12-1/4"</b>	<b>9-5/8" J-55 ST 36#</b>	<b>2,297</b>	<b>see Drilling Plan</b>	
<b>7-7/8"</b>	<b>5-1/2" N-80 LT 17#</b>	<b>9,502</b>	<b>see Drilling Plan</b>	
			<b>9300' TVD</b>	

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 1/16/2009

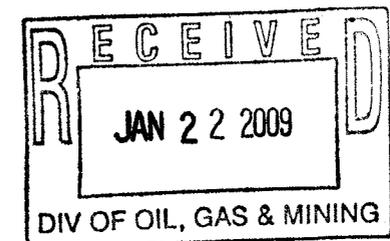
(This space for State use only)

API NUMBER ASSIGNED: 43-047-40492

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

Date: 03-12-09

By: [Signature]



(1/2001) **Federal Approval of this Action is Necessary**

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

## XTO ENERGY, INC.

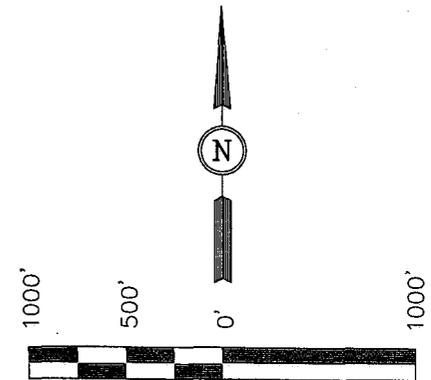
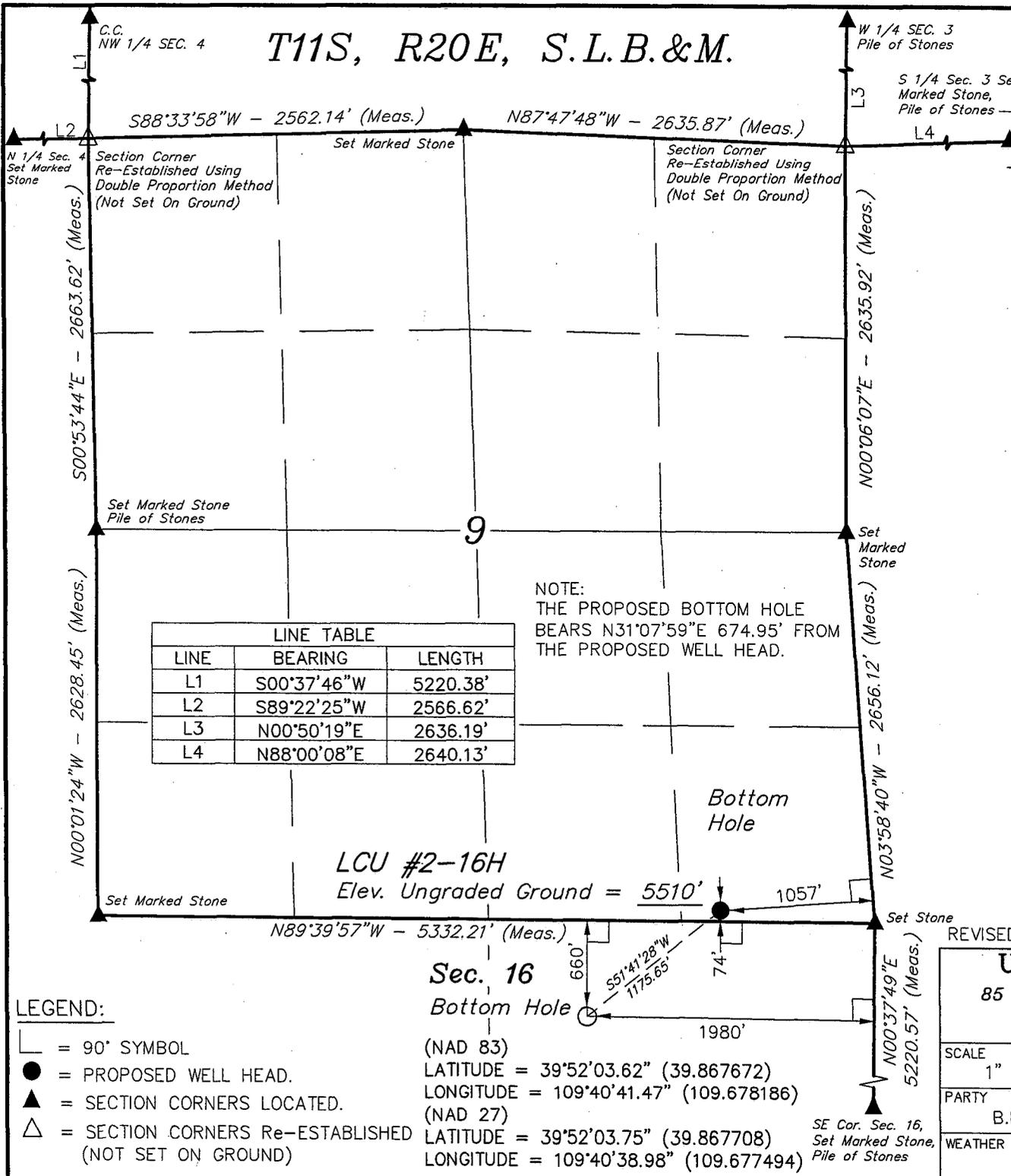
Well location, LCU #2-16H, located as shown in the SE 1/4 SE 1/4 of Section 9, T11S, R20E, S.L.B.&M., Uintah County, Utah.

### BASIS OF ELEVATION

SPOT ELEVATION LOCATED 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.



SCALE

CERTIFICATE

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



REVISED: 12-16-08 SP

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

### LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS Re-ESTABLISHED (NOT SET ON GROUND)

**Sec. 16**  
 Bottom Hole  
 (NAD 83)  
 LATITUDE = 39°52'03.62" (39.867672)  
 LONGITUDE = 109°40'41.47" (109.678186)  
 (NAD 27)  
 LATITUDE = 39°52'03.75" (39.867708)  
 LONGITUDE = 109°40'38.98" (109.677494)

SE Cor. Sec. 16,  
 Set Marked Stone,  
 Pile of Stones

SCALE 1" = 1000'	DATE SURVEYED: 10-31-06	DATE DRAWN: 11-02-06
PARTY B.B. N.M. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE XTO ENERGY, INC.	

# XTO ENERGY INC.

LCU 2-16H

APD Data

September 18, 2008

Location: 74' FSL & 1057' FEL, Sec. 9, T11S, R20E County: Uintah

State: Utah

Bottomhole Location: 660' FNL & 1980' FEL, Sec. 16, T11S, R20E

GREATEST PROJECTED TD: 9502' MD/ 9300' TVD  
APPROX GR ELEV: 5510'

OBJECTIVE: Wasatch/Mesaverde  
Est KB ELEV: 5524' (14' AGL)

## 1. MUD PROGRAM:

INTERVAL	0' to 2297'	2297' to 9502'
HOLE SIZE	12.25"	7.875"
MUD TYPE	FW/Spud Mud	KCl Based LSND / Gel Chemical
WEIGHT	8.80 ppg	8.6-9.2 ppg
VISCOSITY	NC	30-60 sec-qt <sup>-1</sup>
WATER LOSS	NC	8-15 cc/30 min

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 ±2297'MD/2200'TVD in a 12.25" hole filled with 8.8 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'-2297'	2297'	36#	J-55	ST&C	2020	3520	394	8.921	8.765	2.57	4.47	4.76

Production Casing: 5.5" casing set at ±9502'MD/9300'TVD in a 7.875" hole filled with 9.20 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'-9502'	9502'	17#	N-80	LT&C	6280	7740	348	4.892	4.767	1.78	2.20	2.15

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

## 3. WELLHEAD:

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

- Surface: 9.625", 36#, J-55 (or equiv.), ST&C casing to be set at ±2297' in 12.25" hole.

### LEAD:

±229 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.0 ppg, 3.82 ft<sup>3</sup>/sk, 22.95 gal wtr/sx.

### TAIL:

350 sx Class G or equivalent cement with bonding additive, LCM, dispersant, & fluid loss mixed at 15.6 ppg, 1.2 cuft/sx

*Total estimated slurry volume for the 9.625" surface casing is 1293.1 ft<sup>3</sup>. Slurry includes 75% excess of calculated open hole annular volume to 2297'.*

B. Production: 5.5", 17#, N-80 (or equiv.), LT&C casing to be set at ±9502' in 7.875" hole.

LEAD:

±316 sx of Premium Plus V Blend. (Type V/Poz/Gel) or equivalent, with dispersant, fluid loss, accelerator, & LCM mixed at 11.6 ppg, 3.10 ft<sup>3</sup>/sk, 17.71 gal wtr/sx.

TAIL:

400 sx Class G or equivalent cement with poz, bonding additive, LCM, dispersant, & fluid loss mixed at 13.0 ppg, 1.49 cuft/sx, 9.09 gal/sx.

*Total estimated slurry volume for the 5.5" production casing is 1575.9 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 casing string. The production casing is designed for 1797' top of cement..*

5. LOGGING PROGRAM:

- A. Mud Logger: The mud logger will come on at <sup>surface</sup> ~~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 (9502') to the bottom of the surface csg. Run Neutron/Lithodensity/Pe/GR/Cal from TD (9502') to 2297'. Run Gamma Ray to surface.

6. FORMATION TOPS:

Please see attached directional plan.

7. ANTICIPATED OIL, GAS, & WATER ZONES:

A.

Formation	Expected Fluids	TV Depth Top
Green River	Water/Oil Shale	779
Mahogany Bench Mbr.	Water/Oil Shale	1,549
Wasatch Tongue	Oil/Gas/Water	3,456
Green River Tongue	Oil/Gas/Water	3,789
Wasatch*	Gas/Water	3,929
Chapita Wells*	Gas/Water	4,839
Uteland Buttes	Gas/Water	5,954
Mesaverde*	Gas/Water	6,647
Castlegate	Gas/Water	9,334

- B. Appropriately weighted mud will be used to isolate potential gas, oil, and water zones until such time as casing can be cemented into place for zonal isolation.
- C. There are no known potential sources of H<sub>2</sub>S.

D. The bottomhole pressure is anticipated to be between 4200 psi and 4600 psi.

E. According to the USGS, the Base of Moderately Saline Water is at 4029'.

**8. BOP EQUIPMENT:**

Surface will utilize a 500 psi or greater diverter.

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 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
Jeff Jackson	Project Geologist	817-885-2800	



# Well Name: LCU 2-16H

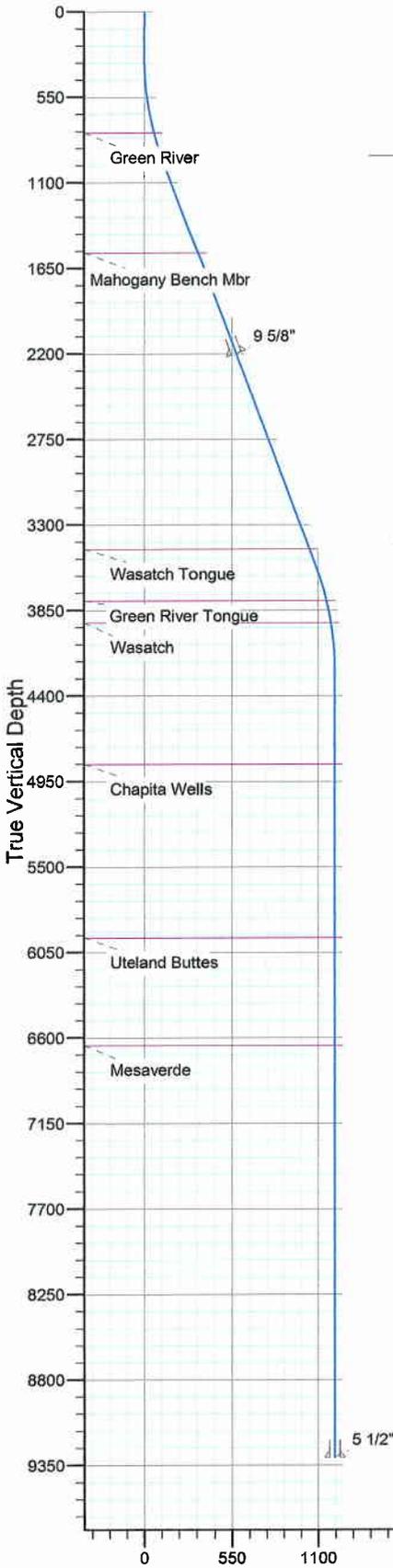
San Juan Division  
Drilling Department

Calculation Method: Minimum Curvature  
Geodetic Datum: North American Datum 1983  
Lat: 39° 52' 3.619 N  
Long: 109° 40' 41.470 W



Azimuths to True North  
Magnetic North: 11.46°

Magnetic Field  
Strength: 52525.6nT  
Dip Angle: 65.80°  
Date: 9/17/2008  
Model: IGRF200510



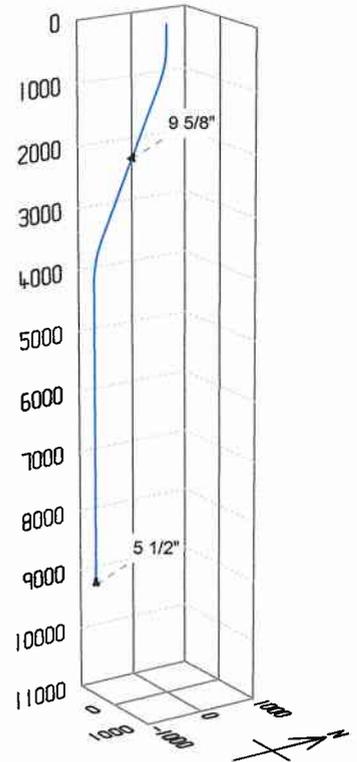
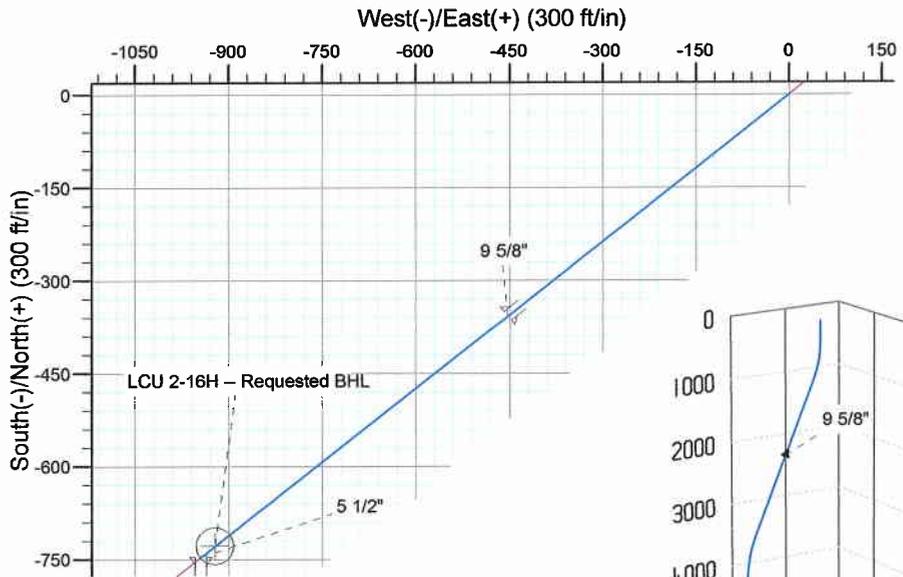
Vertical Section at 231.69°

### FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
779.0	784.2	Green River
1549.0	1602.2	Mahogany Bench Mbr
3456.0	3636.3	Wasatch Tongue
3789.0	3986.8	Green River Tongue
3929.0	4129.6	Wasatch
4839.0	5040.9	Chapita Wells
5954.0	6155.9	Uteland Buttes
6647.0	6848.9	Mesaverde

### CASING DETAILS

TVDPATH	MDPATH	NAME	SIZE
2200.0	2296.6	9 5/8"	9-5/8
9300.0	9501.9	5 1/2"	5-1/2



### SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0	
3	978.8	20.36	231.69	964.6	-74.0	-93.7	3.00	231.69	119.4	
4	3754.8	20.36	231.69	3567.1	-672.8	-851.6	0.00	0.00	1085.3	
5	4100.2	10.00	231.69	3900.0	-728.8	-922.5	3.00	180.00	1175.6	LCU 2-16H - Requested BHL
6	4433.5	0.00	0.00	4231.6	-746.8	-945.3	3.00	180.00	1204.7	
7	9501.9	0.00	0.00	9300.0	-746.8	-945.3	0.00	0.00	1204.7	

# **XTO Energy**

**Natural Buttes Wells(NAD83)**

**LCU 2-16H**

**LCU 2-16H**

**LCU 2-16H**

**Plan: Permitted Wellbore**

## **Standard Planning Report**

**17 September, 2008**

**XTO Energy, Inc.**  
Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** LCU 2-16H  
**Well:** LCU 2-16H  
**Wellbore:** LCU 2-16H  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well LCU 2-16H  
**TVD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Natural Buttes Wells(NAD83), Vernal, UT		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		Using Well Reference Point
<b>Map Zone:</b>	Utah Northern Zone		

<b>Site</b>	LCU 2-16H, T11S, R20E				
<b>Site Position:</b>		<b>Northing:</b>	3,116,531.25 ft	<b>Latitude:</b>	39° 52' 3.619 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,151,893.31 ft	<b>Longitude:</b>	109° 40' 41.470 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	1.20 °

<b>Well</b>	LCU 2-16H, S-Well to Wasatch/Mesaverde					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	3,116,531.25 ft	<b>Latitude:</b>	39° 52' 3.619 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,151,893.31 ft	<b>Longitude:</b>	109° 40' 41.470 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	5,510.0 ft	<b>Ground Level:</b>	5,510.0 ft

<b>Wellbore</b>	LCU 2-16H				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>	<b>Dip Angle</b>	<b>Field Strength</b>
	IGRF200510	9/17/2008	(°) 11.47	(°) 65.80	(nT) 52,526

<b>Design</b>	Permitted Wellbore				
<b>Audit Notes:</b>					
<b>Version:</b>	<b>Phase:</b>	PROTOTYPE	<b>Tie On Depth:</b>	0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>	
	(ft)	(ft)	(ft)	(°)	
	0.0	0.0	0.0	231.69	

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
978.8	20.36	231.69	964.6	-74.0	-93.7	3.00	3.00	0.00	231.69	
3,754.8	20.36	231.69	3,567.1	-672.8	-851.6	0.00	0.00	0.00	0.00	
4,100.2	10.00	231.69	3,900.0	-728.8	-922.5	3.00	-3.00	0.00	180.00	LCU 2-16H -- Reques
4,433.5	0.00	0.00	4,231.6	-746.8	-945.3	3.00	-3.00	0.00	180.00	
9,501.9	0.00	0.00	9,300.0	-746.8	-945.3	0.00	0.00	0.00	0.00	

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** LCU 2-16H  
**Well:** LCU 2-16H  
**Wellbore:** LCU 2-16H  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well LCU 2-16H  
**TVD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	3.00	231.69	400.0	-1.6	-2.1	2.6	3.00	3.00	0.00
500.0	6.00	231.69	499.6	-6.5	-8.2	10.5	3.00	3.00	0.00
600.0	9.00	231.69	598.8	-14.6	-18.5	23.5	3.00	3.00	0.00
700.0	12.00	231.69	697.1	-25.9	-32.7	41.7	3.00	3.00	0.00
784.2	14.53	231.69	779.0	-37.8	-47.9	61.0	3.00	3.00	0.00
<b>Green River</b>									
800.0	15.00	231.69	794.3	-40.3	-51.1	65.1	3.00	3.00	0.00
900.0	18.00	231.69	890.2	-57.9	-73.3	93.5	3.00	3.00	0.00
978.8	20.36	231.69	964.6	-74.0	-93.7	119.4	3.00	3.00	0.00
1,000.0	20.36	231.69	984.5	-78.6	-99.5	126.7	0.00	0.00	0.00
1,100.0	20.36	231.69	1,078.2	-100.1	-126.8	161.5	0.00	0.00	0.00
1,200.0	20.36	231.69	1,172.0	-121.7	-154.1	196.3	0.00	0.00	0.00
1,300.0	20.36	231.69	1,265.7	-143.3	-181.4	231.1	0.00	0.00	0.00
1,400.0	20.36	231.69	1,359.5	-164.9	-208.7	265.9	0.00	0.00	0.00
1,500.0	20.36	231.69	1,453.2	-186.4	-236.0	300.7	0.00	0.00	0.00
1,600.0	20.36	231.69	1,547.0	-208.0	-263.3	335.5	0.00	0.00	0.00
1,602.2	20.36	231.69	1,549.0	-208.5	-263.9	336.3	0.00	0.00	0.00
<b>Mahogany Bench Mbr</b>									
1,700.0	20.36	231.69	1,640.7	-229.6	-290.6	370.3	0.00	0.00	0.00
1,800.0	20.36	231.69	1,734.5	-251.1	-317.9	405.1	0.00	0.00	0.00
1,900.0	20.36	231.69	1,828.2	-272.7	-345.2	439.9	0.00	0.00	0.00
2,000.0	20.36	231.69	1,922.0	-294.3	-372.5	474.7	0.00	0.00	0.00
2,100.0	20.36	231.69	2,015.7	-315.9	-399.8	509.5	0.00	0.00	0.00
2,200.0	20.36	231.69	2,109.5	-337.4	-427.1	544.3	0.00	0.00	0.00
2,296.6	20.36	231.69	2,200.0	-358.3	-453.5	577.9	0.00	0.00	0.00
<b>9 5/8"</b>									
2,300.0	20.36	231.69	2,203.2	-359.0	-454.4	579.1	0.00	0.00	0.00
2,400.0	20.36	231.69	2,297.0	-380.6	-481.7	613.9	0.00	0.00	0.00
2,500.0	20.36	231.69	2,390.7	-402.1	-509.0	648.7	0.00	0.00	0.00
2,600.0	20.36	231.69	2,484.5	-423.7	-536.3	683.5	0.00	0.00	0.00
2,700.0	20.36	231.69	2,578.2	-445.3	-563.6	718.3	0.00	0.00	0.00
2,800.0	20.36	231.69	2,672.0	-466.8	-590.9	753.1	0.00	0.00	0.00
2,900.0	20.36	231.69	2,765.7	-488.4	-618.2	787.9	0.00	0.00	0.00
3,000.0	20.36	231.69	2,859.5	-510.0	-645.5	822.7	0.00	0.00	0.00
3,100.0	20.36	231.69	2,953.2	-531.6	-672.8	857.5	0.00	0.00	0.00
3,200.0	20.36	231.69	3,047.0	-553.1	-700.1	892.3	0.00	0.00	0.00
3,300.0	20.36	231.69	3,140.7	-574.7	-727.4	927.1	0.00	0.00	0.00
3,400.0	20.36	231.69	3,234.5	-596.3	-754.7	961.9	0.00	0.00	0.00
3,500.0	20.36	231.69	3,328.2	-617.8	-782.1	996.7	0.00	0.00	0.00
3,600.0	20.36	231.69	3,422.0	-639.4	-809.4	1,031.5	0.00	0.00	0.00
3,636.3	20.36	231.69	3,456.0	-647.2	-819.3	1,044.1	0.00	0.00	0.00
<b>Wasatch Tongue</b>									
3,700.0	20.36	231.69	3,515.7	-661.0	-836.7	1,066.3	0.00	0.00	0.00
3,754.8	20.36	231.69	3,567.1	-672.8	-851.6	1,085.3	0.00	0.00	0.00
3,800.0	19.01	231.69	3,609.7	-682.2	-863.6	1,100.6	3.00	-3.00	0.00
3,900.0	16.01	231.69	3,705.0	-700.9	-887.2	1,130.6	3.00	-3.00	0.00
3,986.8	13.40	231.69	3,789.0	-714.6	-904.5	1,152.7	3.00	-3.00	0.00
<b>Green River Tongue</b>									
4,000.0	13.01	231.69	3,801.8	-716.4	-906.8	1,155.7	3.00	-3.00	0.00

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** LCU 2-16H  
**Well:** LCU 2-16H  
**Wellbore:** LCU 2-16H  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well LCU 2-16H  
**TVD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.2	10.00	231.69	3,900.0	-728.8	-922.5	1,175.6	3.00	-3.00	0.00
<b>LCU 2-16H – Requested BHL</b>									
4,129.6	9.12	231.69	3,929.0	-731.8	-926.3	1,180.5	3.00	-3.00	0.00
<b>Wasatch</b>									
4,200.0	7.01	231.69	3,998.7	-738.0	-934.1	1,190.4	3.00	-3.00	0.00
4,300.0	4.01	231.69	4,098.2	-743.9	-941.6	1,200.0	3.00	-3.00	0.00
4,400.0	1.01	231.69	4,198.1	-746.6	-945.0	1,204.4	3.00	-3.00	0.00
4,433.5	0.00	0.00	4,231.6	-746.8	-945.3	1,204.7	3.00	-3.00	0.00
4,500.0	0.00	0.00	4,298.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
4,600.0	0.00	0.00	4,398.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
4,700.0	0.00	0.00	4,498.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
4,800.0	0.00	0.00	4,598.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
4,900.0	0.00	0.00	4,698.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,000.0	0.00	0.00	4,798.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,040.9	0.00	0.00	4,839.0	-746.8	-945.3	1,204.7	0.00	0.00	0.00
<b>Chapita Wells</b>									
5,100.0	0.00	0.00	4,898.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,200.0	0.00	0.00	4,998.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,300.0	0.00	0.00	5,098.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,400.0	0.00	0.00	5,198.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,500.0	0.00	0.00	5,298.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,600.0	0.00	0.00	5,398.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,700.0	0.00	0.00	5,498.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,800.0	0.00	0.00	5,598.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
5,900.0	0.00	0.00	5,698.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,000.0	0.00	0.00	5,798.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,100.0	0.00	0.00	5,898.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,155.9	0.00	0.00	5,954.0	-746.8	-945.3	1,204.7	0.00	0.00	0.00
<b>Uteland Buttes</b>									
6,200.0	0.00	0.00	5,998.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,300.0	0.00	0.00	6,098.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,400.0	0.00	0.00	6,198.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,500.0	0.00	0.00	6,298.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,600.0	0.00	0.00	6,398.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,700.0	0.00	0.00	6,498.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,800.0	0.00	0.00	6,598.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
6,848.9	0.00	0.00	6,647.0	-746.8	-945.3	1,204.7	0.00	0.00	0.00
<b>Mesaverde</b>									
6,900.0	0.00	0.00	6,698.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,000.0	0.00	0.00	6,798.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,100.0	0.00	0.00	6,898.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,200.0	0.00	0.00	6,998.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,300.0	0.00	0.00	7,098.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,400.0	0.00	0.00	7,198.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,500.0	0.00	0.00	7,298.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,398.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,498.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,598.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,698.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,798.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,100.0	0.00	0.00	7,898.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,200.0	0.00	0.00	7,998.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,098.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00

# XTO Energy, Inc.

## Planning Report

**Database:** EDM 2003.14 Single User Db  
**Company:** XTO Energy  
**Project:** Natural Buttes Wells(NAD83)  
**Site:** LCU 2-16H  
**Well:** LCU 2-16H  
**Wellbore:** LCU 2-16H  
**Design:** Permitted Wellbore

**Local Co-ordinate Reference:** Well LCU 2-16H  
**TVD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**MD Reference:** Rig KB @ 5524.0ft (Frontier #6)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,400.0	0.00	0.00	8,198.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,298.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,600.0	0.00	0.00	8,398.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,700.0	0.00	0.00	8,498.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,800.0	0.00	0.00	8,598.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
8,900.0	0.00	0.00	8,698.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,000.0	0.00	0.00	8,798.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,100.0	0.00	0.00	8,898.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,200.0	0.00	0.00	8,998.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,300.0	0.00	0.00	9,098.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,400.0	0.00	0.00	9,198.1	-746.8	-945.3	1,204.7	0.00	0.00	0.00
9,501.9	0.00	0.00	9,300.0	-746.8	-945.3	1,204.7	0.00	0.00	0.00

5 1/2"

### Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
LCU 2-16H -- Requester - plan hits target - Circle (radius 30.0)	0.00	0.00	3,900.0	-728.8	-922.5	3,115,783.27	2,150,986.29	39° 51' 56.418 N	109° 40' 53.297 W

### Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,296.6	2,200.0	9 5/8"	9-5/8	12-1/4
9,501.9	9,300.0	5 1/2"	5-1/2	7-7/8

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
784.2	779.0	Green River		0.00	
1,602.2	1,549.0	Mahogany Bench Mbr		0.00	
3,636.3	3,456.0	Wasatch Tongue		0.00	
3,986.8	3,789.0	Green River Tongue		0.00	
4,129.6	3,929.0	Wasatch		0.00	
5,040.9	4,839.0	Chapita Wells		0.00	
6,155.9	5,954.0	Uteland Buttes		0.00	
6,848.9	6,647.0	Mesaverde		0.00	

## SURFACE USE PLAN

**Name of Operator:** XTO Energy, Inc.  
**Address:** P.O. Box 1360;  
Roosevelt, Utah 84066  
**Well Location:** LCU 2-16H  
*Surface Location:* 74' FSL & 1,057' FEL, SE/4 SE/4, Sec. 9,  
*Target Location:* 660' FNL & 1,980' FEL, NW/4 NE/4, Sec. 16,  
T11S, R20E, SLB&M, Uintah County, Utah

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

The State onsite for the referenced well is pending at this time.

The BLM onsite inspection for the referenced well was conducted on Tuesday, March 27, 2007 at approximately 11:00 am. In attendance at the onsite inspections were the following individuals:

Karl Wright	Nat. Res. Prot. Spec.	BLM – Vernal
Brandon McDonald	Wildlife Biologist	BLM – Vernal
Ken Secrest	Regulatory Coordinator	XTO Energy, Inc.
Brandon Bowthorpe	Surveyor	Uintah Engineering
Billy McClure	Foreman	LaRose Construction
Randy Jackson	Foreman	Jackson Construction
Don Hamilton	Agent	Buys & Associates, Inc.

1. Location of Existing Roads:

- a. The proposed well site is located approximately 15.26 miles south of Ouray, Utah.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the 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 and utility corridors since both are located entirely within the Little Canyon Unit area.

2. Planned Access Roads:

- a. From the proposed LCU 9-9H access road an access is proposed trending south approximately 0.7 miles along new disturbance to the proposed well site. The access crosses no significant drainages.
- b. A road design plan is not anticipated at this time.
- c. The proposed access road will consist of a 24' travel surface within a 30' disturbed area across entirely BLM surface.
- d. BLM approval to construct and utilize the proposed access road is requested with this application.
- e. A maximum grade of 10% will be maintained throughout the project.
- f. No turnouts are proposed since adequate site distance exists in all directions.
- g. No low-water crossings and one 18" culvert with catchment basin as the road enters the pad is anticipated. Adequate drainage structures will be incorporated into the road.
- h. No surfacing material will come from federal or Indian lands.
- i. No gates or cattle guards are anticipated at this time.
- j. Surface disturbance and vehicular travel will be limited to the approved location access road.
- k. All access roads and surface disturbing activities will conform to the standards outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards and Guidelines for Oil and Gas Exploration and Development (Gold Book – Fourth Edition - Revised 2007).
- l. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

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

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

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

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

- e. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- f. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- g. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.
- h. A pipeline corridor containing a single steel gas pipeline is associated with this application and is being applied for at this time. The proposed pipeline corridor will leave the southwest side of the well site and traverse 1,435' north to the existing LCU 15-9H pipeline corridor.
- i. The new segment of gas pipeline will be a 12" or less surface laid line within a 30' wide pipeline corridor.
- j. Construction of the pipeline corridor will temporarily utilize the 30' disturbed width for the road for a total disturbed width of 60' for the road and pipeline corridors. The use of the proposed well site and access roads will facilitate the staging of the pipeline corridor construction.
- k. XTO Energy, Inc. intends to surface install the pipeline 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 well will be hauled on the road(s) shown in Exhibit B.
- d. Water will be hauled from one of the following sources:
  - o Water Permit # 43-10991, Section 9, T8S, R20E;
  - o Water Permit #43-2189, Section 33, T8S, R20E;
  - o Water Permit #49-2158, Section 33, T8S, R20E;
  - o Water Permit #49-2262, Section 33, T8S, R20E;
  - o Water Permit #49-1645, Section 5, T9S, R22E;
  - o Water Permit #43-9077, Section 32, T6S, R20E;
  - o Tribal Resolution 06-183, Section 22, T10S, R20E;

6. Source of Construction Material:

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

7. Methods of Handling Waste:

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

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

8. Ancillary Facilities:

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

9. Well Site Layout: (See Exhibit B)

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

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

11. Surface and Mineral Ownership:

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

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

- b. An Independent Archeologist. 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 An Independent Archeologist.
- c. Alden Hamblin has conducted a paleontological survey. A copy of the report is attached and has also been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- d. Our understanding of the results of the onsite inspection are:
  - a. No Threatened and Endangered flora and fauna species were found during the onsite inspection.
  - b. No drainage crossings that require additional State or Federal approval are being crossed.
  - c. An 18" culvert with catchment basin will be installed as the access road enters the pad area.

Certification:

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exists; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under XTO Energy, Inc's BLM bond UTB-000138 and 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 16<sup>th</sup> day of January, 2009.

Don Hamilton

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

435-719-2018  
starpoint@etv.net

XTO ENERGY., INC.  
LCU #2-16H & #16-9H  
SECTION 9, T11S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 9.1 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ROAD RE-ROUTE TO THE NORTHWEST; FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS PROPOSED ROAD RE-ROUTE AND AN EXISTING ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN WESTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #9-9H TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY, THEN SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE PROPOSED #9-9H AND THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 51.6 MILES.



XTO ENERGY, INC.

TYPICAL CROSS SECTIONS FOR

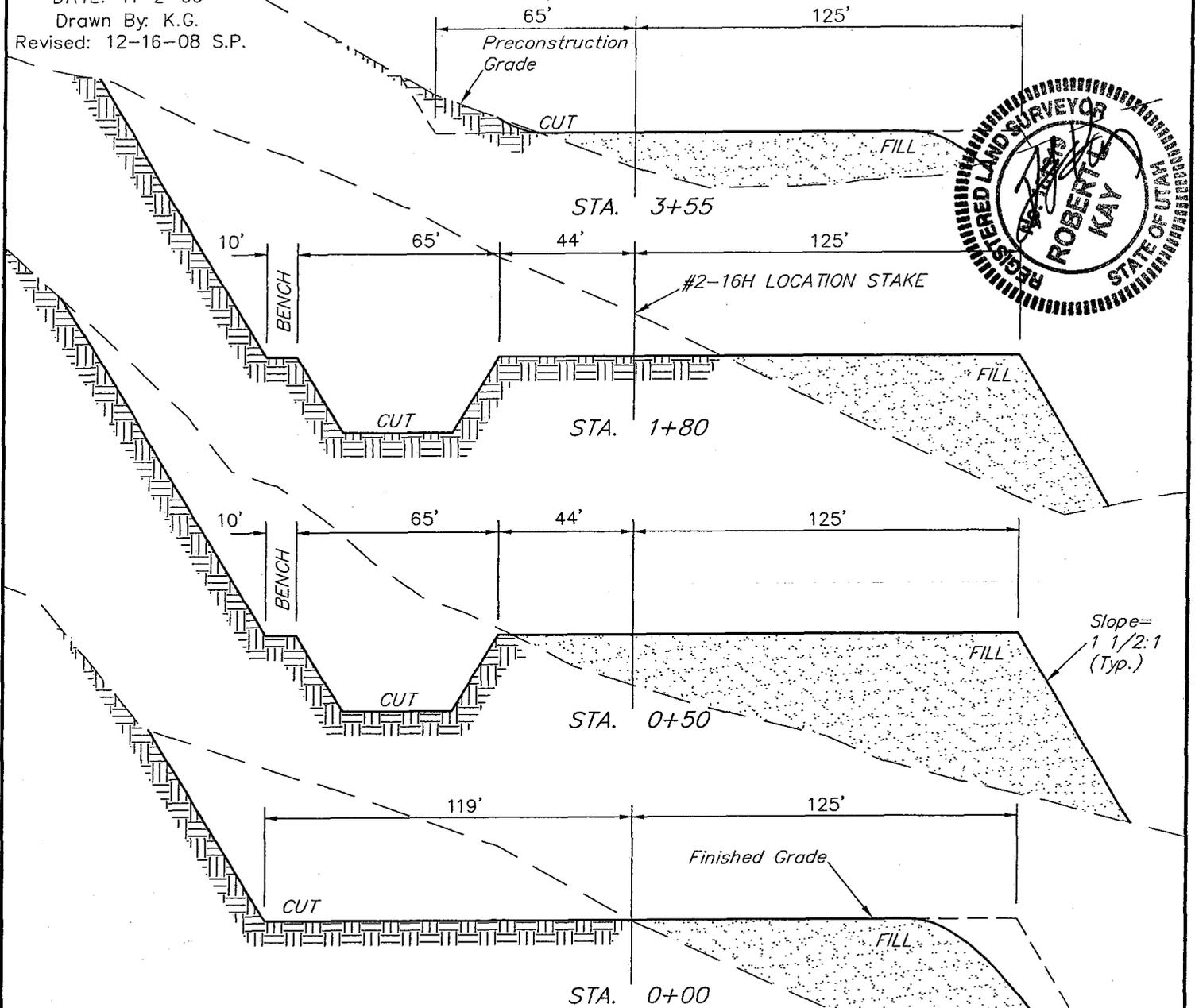
LCU #16-9H & #2-16H  
SECTION 9, T11S, R20E, S.L.B.&M.  
SE 1/4 SE 1/4

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

DATE: 11-2-06

Drawn By: K.G.

Revised: 12-16-08 S.P.



NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.057 ACRES  
ACCESS ROAD DISTURBANCE = ± 2.399 ACRES  
PIPELINE DISTURBANCE = ± 0.988 ACRES  
TOTAL = ± 6.444 ACRES

\* NOTE:

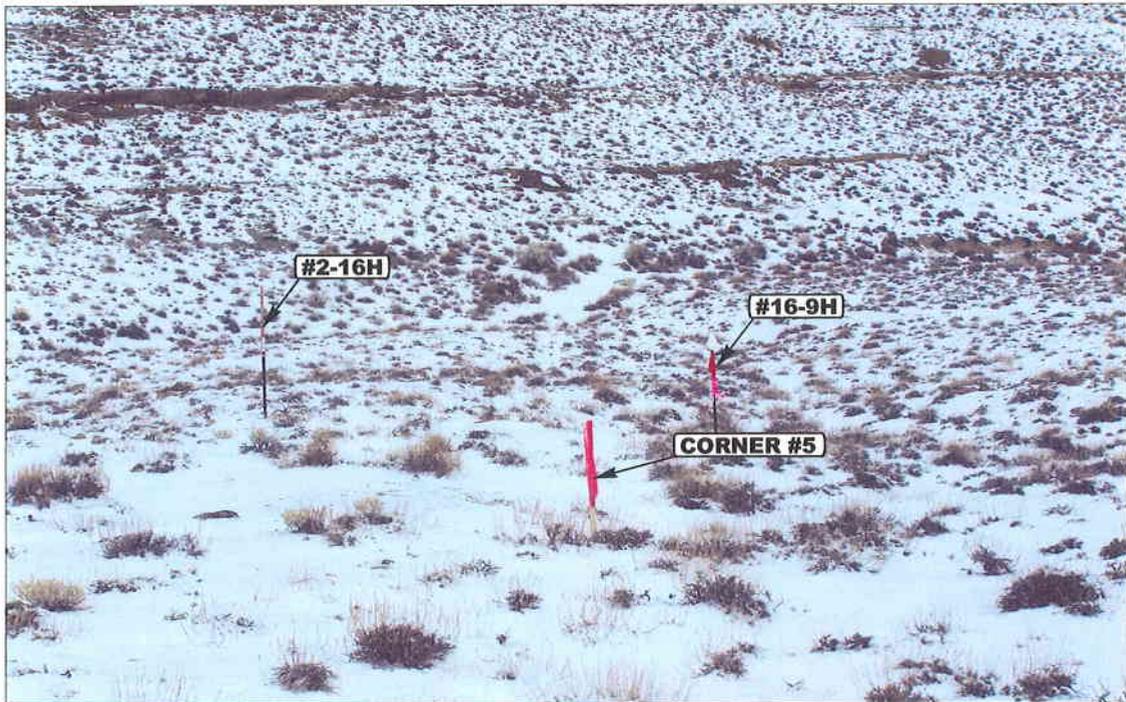
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 2,290 Cu. Yds.  
Remaining Location = 24,010 Cu. Yds.  
  
TOTAL CUT = 26,300 CU.YDS.  
FILL = 22,400 CU.YDS.

EXCESS MATERIAL = 3,900 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,900 Cu. Yds.  
EXCESS UNBALANCE = 0 Cu. Yds. (After Interim Rehabilitation)

**XTO ENERGY, INC.**  
**LCU #2-16H & #16-9H**  
 LOCATED IN UINTAH COUNTY, UTAH  
 SECTION 9, T11S, R20E, S.L.B.&M.



**PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKES**

**CAMERA ANGLE: NORTHWESTERLY**



**PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS**

**CAMERA ANGLE: SOUTHWESTERLY**



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

**LOCATION PHOTOS**

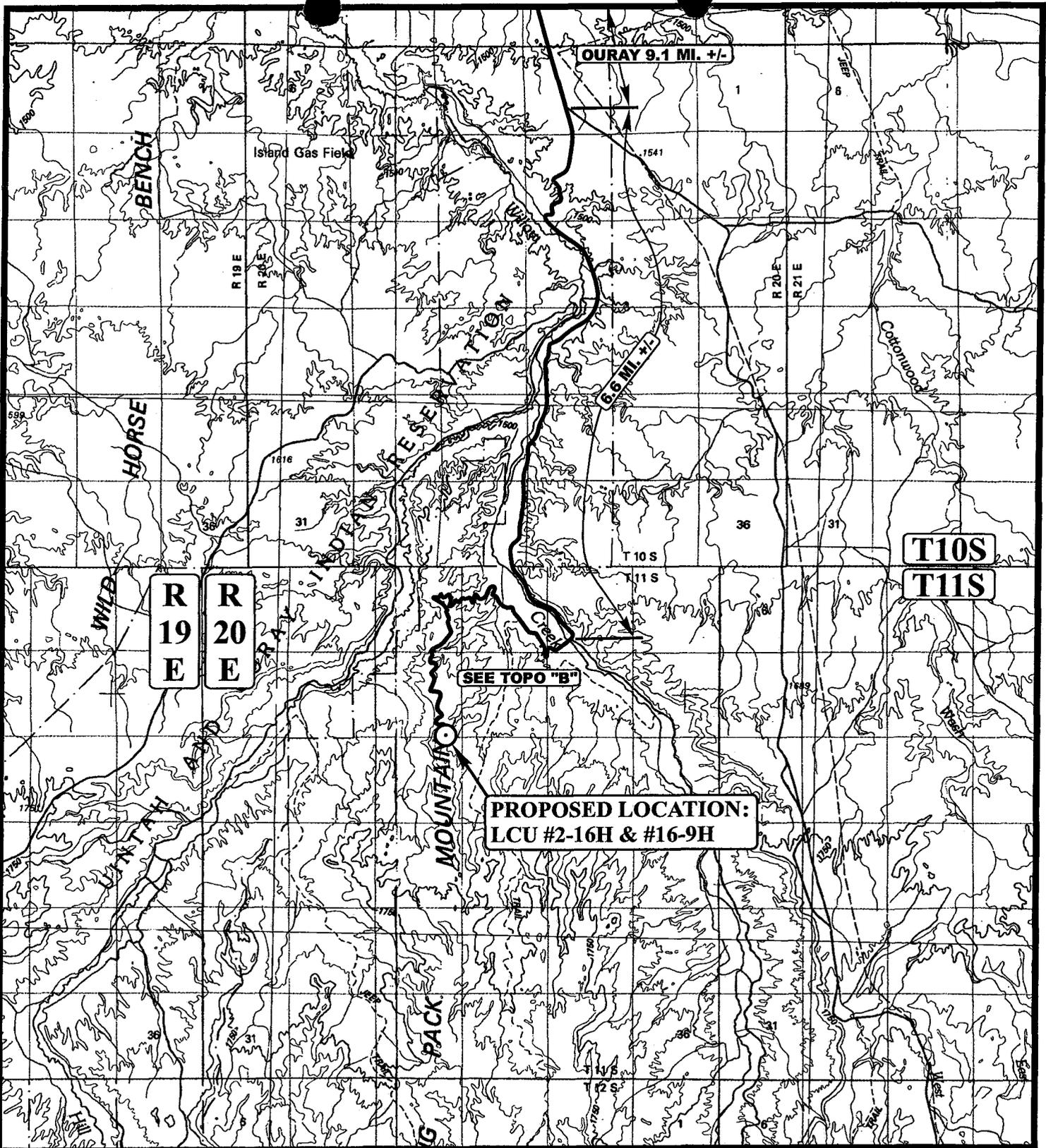
**11 03 06**  
 MONTH DAY YEAR

**PHOTO**

TAKEN BY: B.B.

DRAWN BY: C.P.

REVISED: 1-8-09 S.P.



**LEGEND:**

⊙ PROPOSED LOCATION



**XTO ENERGY, INC.**

LCU #2-16H & #16-9H  
 SECTION 9, T11S, R20E, S.L.B.&M.  
 SE 1/4 SE 1/4

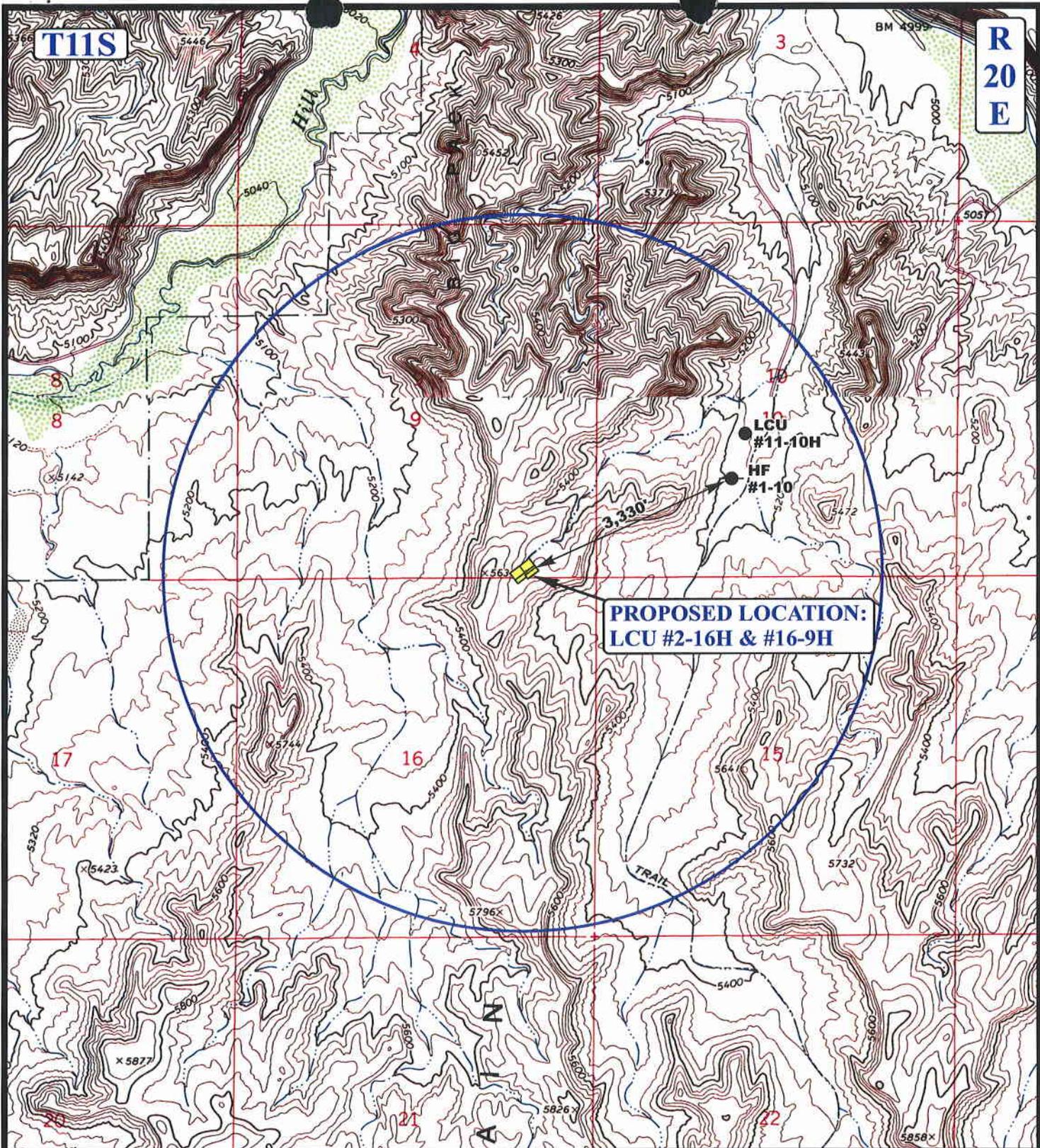


Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC MAP  
 11 | 03 | 06  
 MONTH | DAY | YEAR  
 SCALE: 1:100,000 | DRAWN BY: C.P. | REVISED: 1-8-09 S.P.







**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- ⊖ SHUT IN WELLS
- ⊕ WATER WELLS
- ⊙ ABANDONED WELLS
- ⊖ TEMPORARILY ABANDONED



**XTO ENERGY, INC.**

**LCU #2-16H & #16-9H**  
**SECTION 9, T11S, R20E, S.L.B.&M.**  
**SE 1/4 SE 1/4**

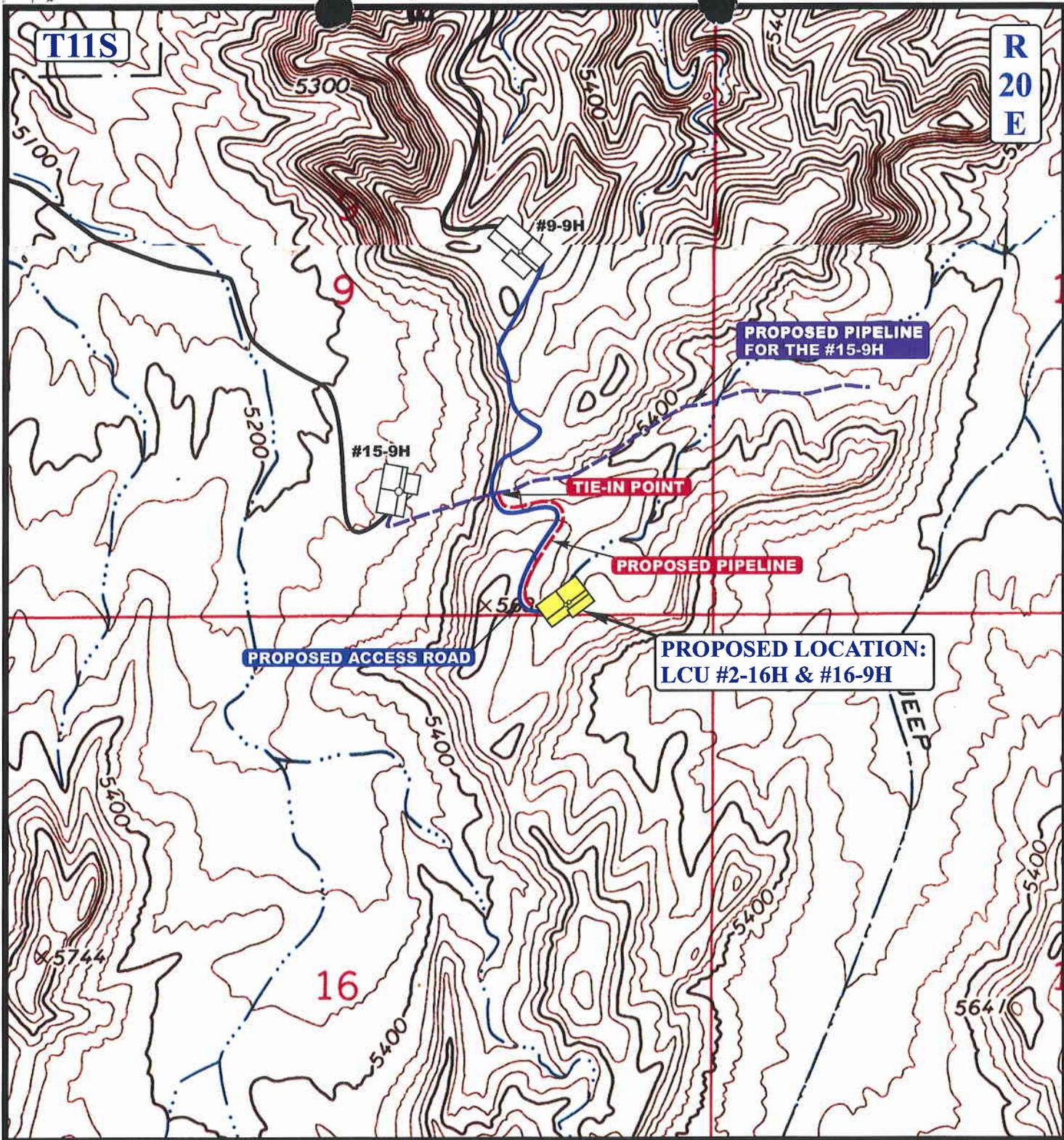


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 11 03 06  
**MAP** MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 1-8-09 S.P.





**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,435' +/-**

**LEGEND:**

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

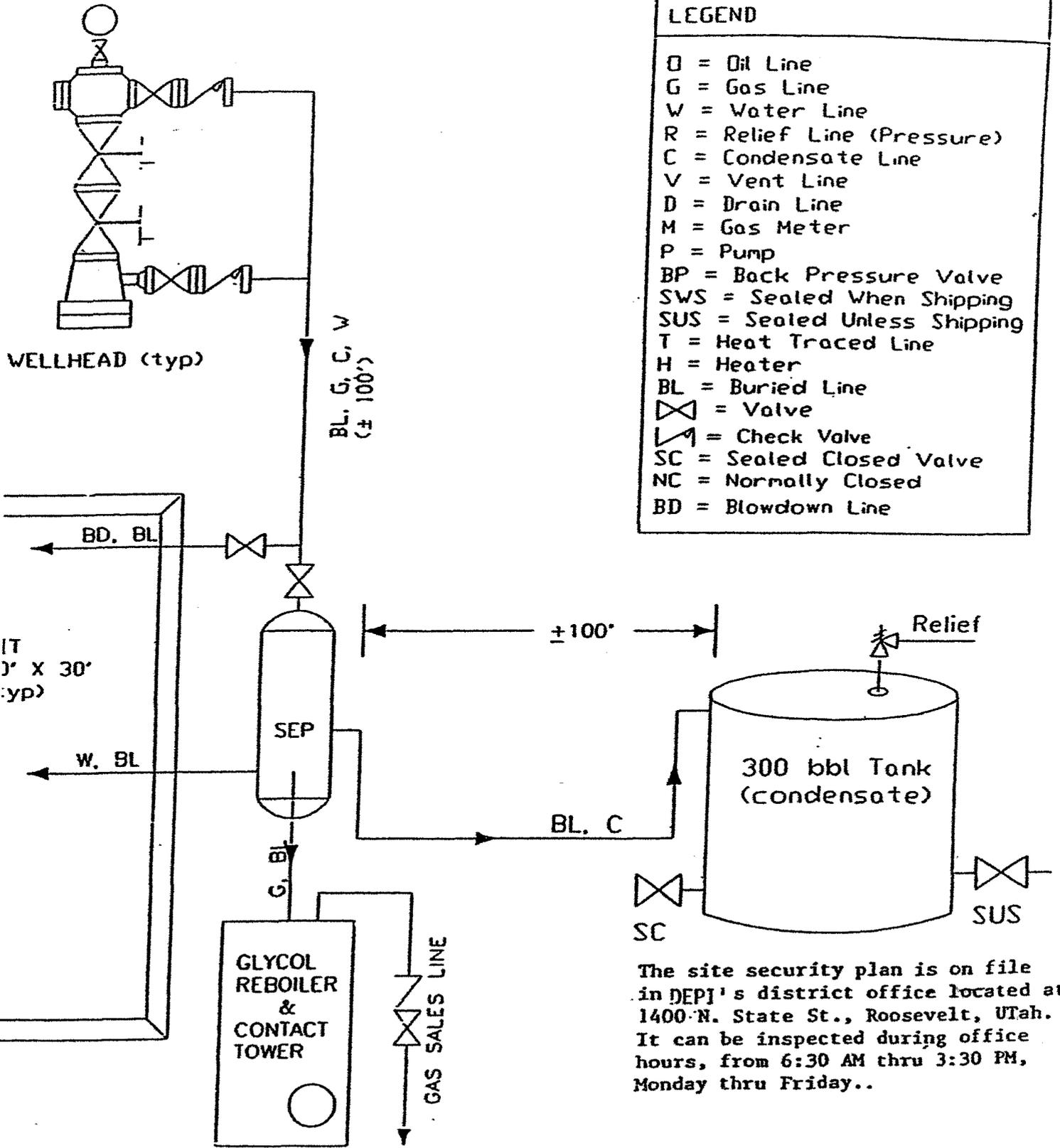


**XTO ENERGY, INC.**

**LCU #2-16H & #16-9H  
SECTION 9, T11S, R20E, S.L.B.&M.  
SE 1/4 SE 1/4**

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

**TOPOGRAPHIC** 11 03 06  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 1-8-09 S.P. **D**  
 TOPO



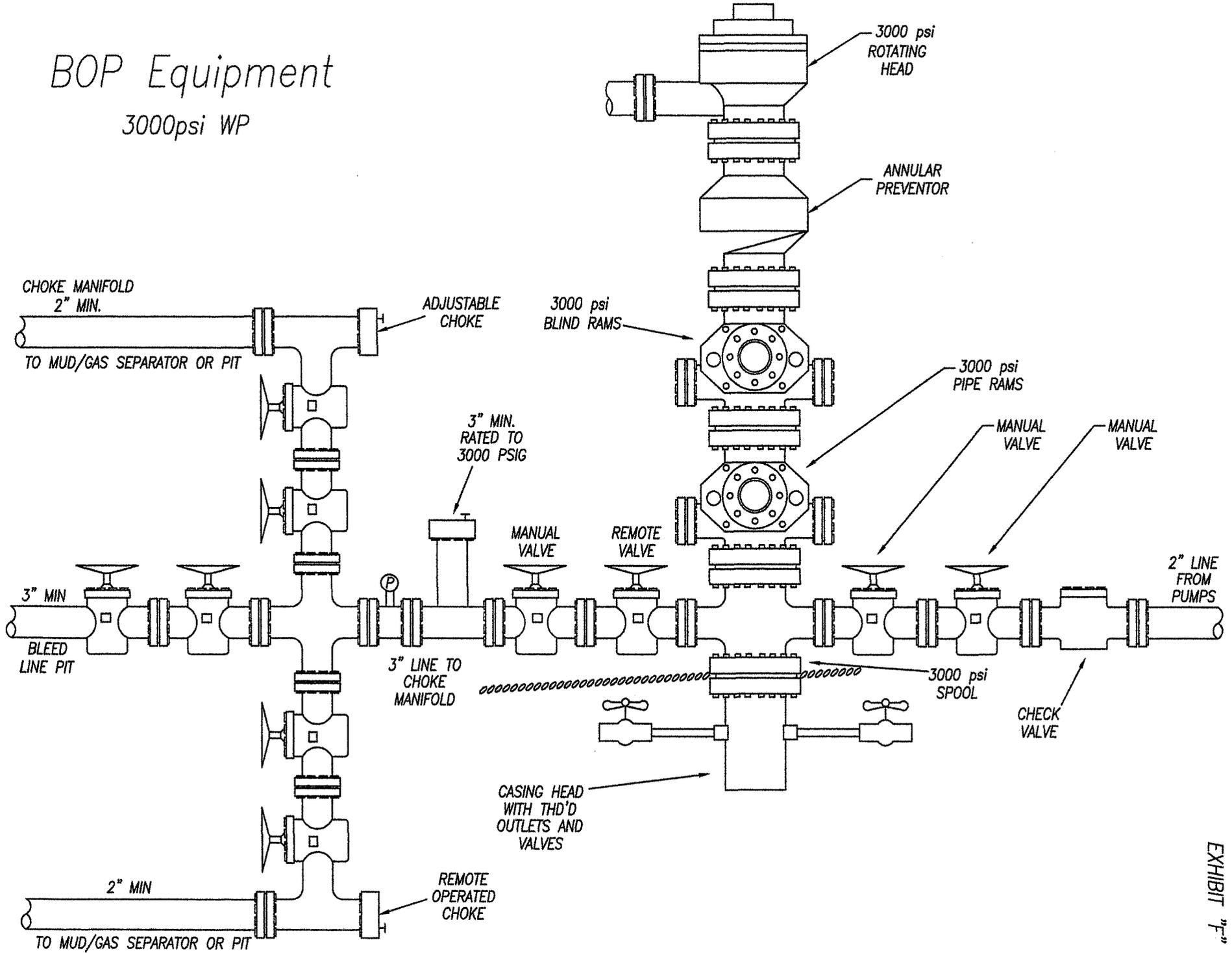
**LEGEND**

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

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

# BOP Equipment

3000psi WP



Dominion Exploration & Production, Inc.  
Little Canyon Unit #2-16H: 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  
Dominion Exploration and Production, Inc.  
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-06-AY-206(b)

March 30, 2007

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## Introduction

An Independent Archaeologist (AIA) was contacted by a representative of Dominion Exploration & Production, Inc., to conduct a cultural resources investigation of the proposed Little Canyon Unit (LCU) #2-16H well, its access and pipeline. The location of the project area is the SE/NE 1/4 of Section 9, T11S, R20E Uintah County, Utah (Figure 1).

The proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well.

The proposed LCU #2-16H well's centerstake footage (Alternate #1) is 74' FSL, 1057' FEL. The proposed LCU #2-16H well's centerstake Universal Transverse Mercator (UTM) centroid coordinate is Zone 12, North American Datum (NAD) 83, 06/13/047.49 mE 44/13/907.78 mN  $\pm$  5m.

As mentioned above, the proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well. Therefore, the LCU #2-16H well's propose access and pipeline is the existing road and pipeline associated with the LCU #16-9H well.

The surface and minerals of Section 9 T11S R20E is administered by the United States (US), Department of Interior (DOI), Utah Bureau of Land Management (BLM), Vernal District Office, Book Cliffs Resource Area. A total of 10 acres (10 block, 0 linear) was surveyed. The fieldwork was conducted on March 14, 2007 by AIA archaeologists James Truesdale and CJ Truesdale. 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 February 20, 2006. 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 one previous project (U-02-MQ-243) had been conducted in the general area (Section 9 of T11S R20E). In addition, the Utah SHPO GIS files search indicates that no cultural resources (sites, isolates) have been recorded in the project area.

## Environment

Physiographically, the project is located in the Little Canyon Unit in the Uinta Basin, 18 miles south of Ouray, Utah. The Uinta Basin is structurally the lowest part of the Colorado

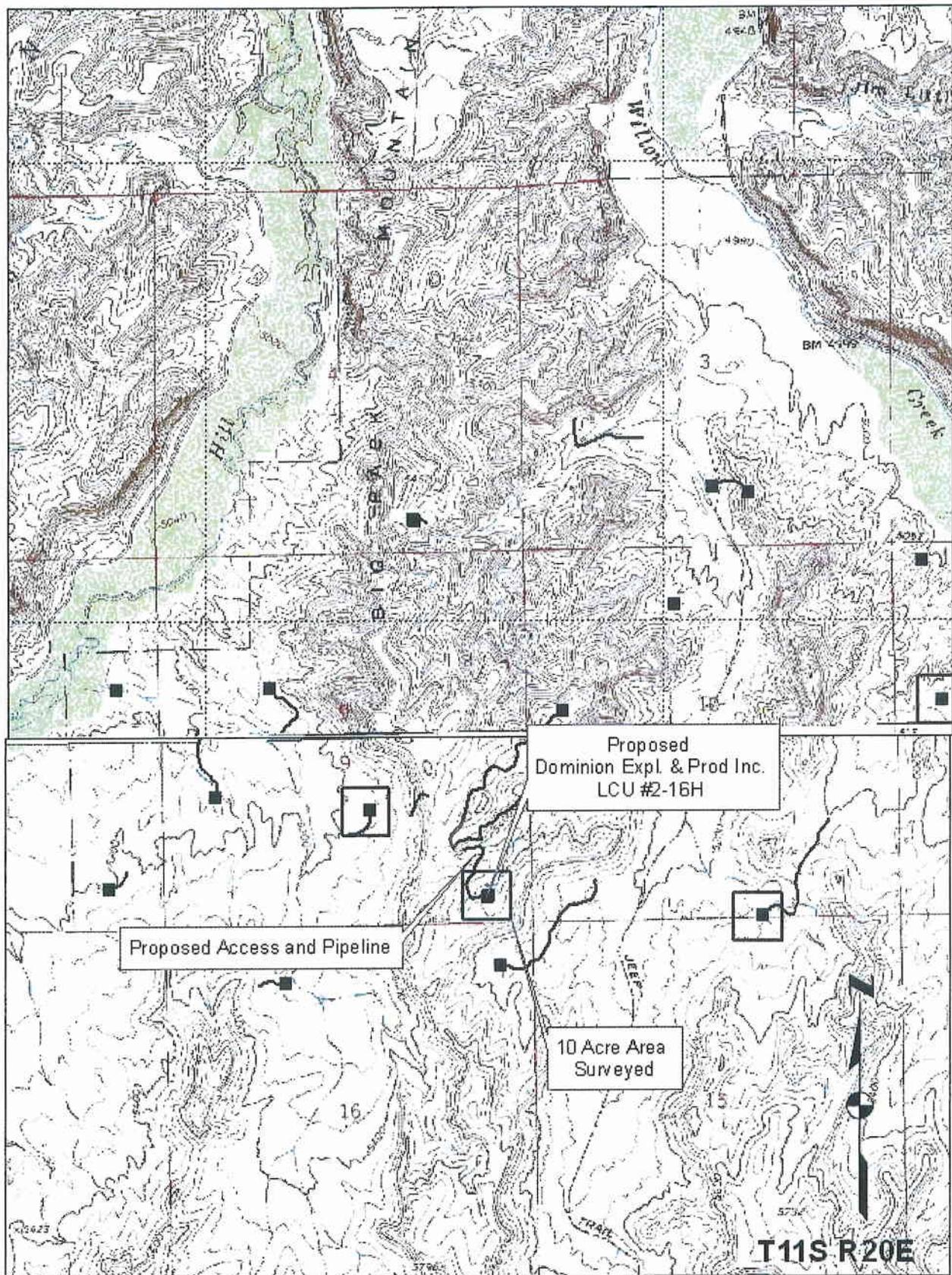


Figure 1. Location of the proposed Dominion Expl. & Prod Inc. LCU #2-16H well, its access and pipeline on 7.5/1968 USGS quadrangle map Big Pack Mountain and Big Pack Mountain NW, Uintah County, Utah.

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 the top of Big Pack Mountain between Hill and Willow Creek canyons. Big Pack Mountain is a upland ridge with desert badlands that are dominated by hills, ridges and knolls with exposed and eroding Uintah formation sandstone, clay and shale. These hills, ridges and knolls are dissected by small ephemeral drainage washes. Sediments in this portion of the Little Canyon Unit are colluvial in nature and consist of shallow (<5 to 15 cm), poorly sorted, loosely compacted, white, tan to light brown, grey to grayish brown sandy clay loam, mixed with tiny to large angular pieces of sandstone, clay and shale. In the drainages the colluvium is mixed with rounded to sub-rounded, flat, fluvial gravel. Portions of the desert hardpan (slickrock) and exposed and eroding clay and shale bedrock in this portion of the Little Canyon Unit may be covered with Aeolian sand which can reach a depth of between 50 to 100 centimeters.

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).

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 Hill Creek Canyon bottom to the west and Willow Creek Canyon to the east.

Little Canyon Unit (LCU) #2-16H

As mentioned earlier, the proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well pad. The proposed LCU #2-16H well centerstake (74' FSL, 1057' FEL) is situated 6 feet (1.82 m) north and 9 feet (2.74 m) west of the existing LCU #16-9H well head (80' FSL, 1048' FEL).

The proposed LCU #2-16 well centerstake and the existing LCU #16-9H well is situated on a relatively steep talus slope of a southwest to northeast trending ridge (Figure 2). The ridge is a finger ridge that is an eastern extension of Big Pack Mountain. Sediments on the proposed LCU #2-16H and existing LCU #16-9H wells are colluvial in nature. These colluvial deposits consist of shallow (< 5 to 15 cm), tan to light brown, poorly sorted, moderately compacted, sandy clay loam, mixed with small to large angular pieces of sandstone, clay and shale. Exposed and

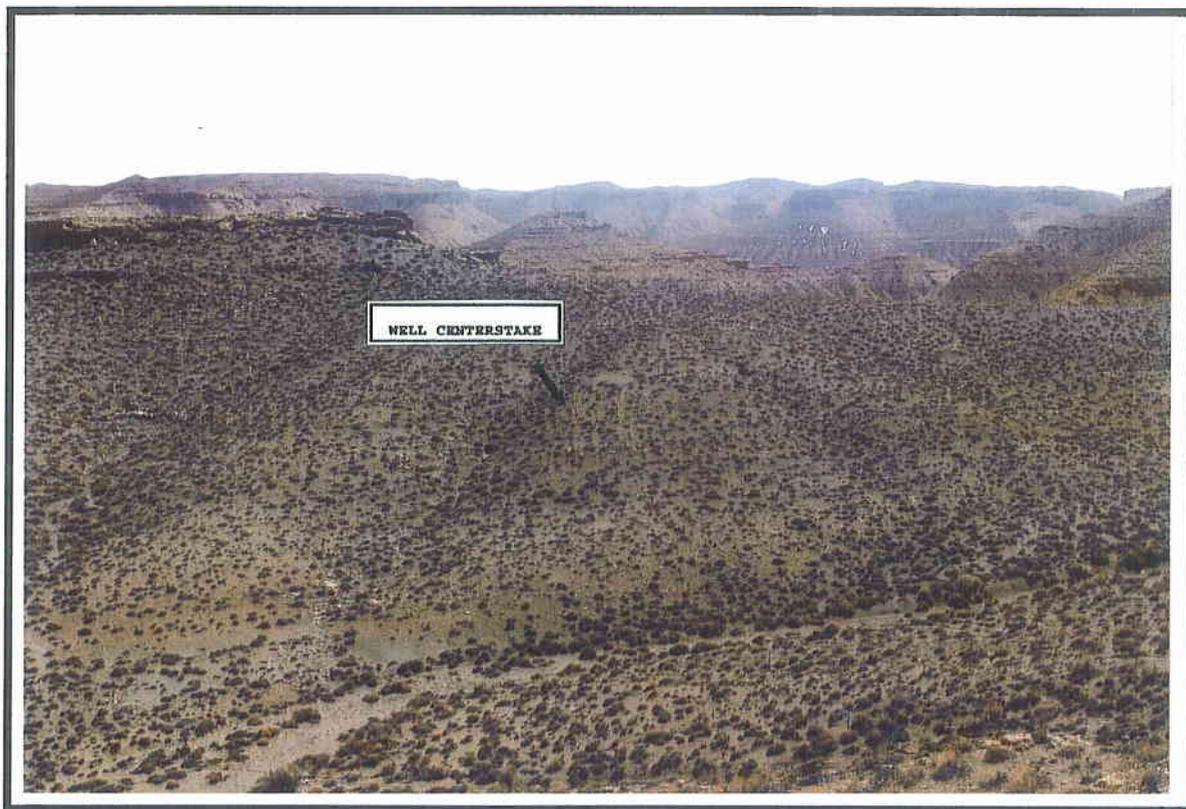


Figure 2. View to southeast at the proposed LCU #2-16H centerstake and well pad area.

eroding tan to light brown sandstone, clay and shale bedrock dominate the ridge surface surrounding well (Figure 3).

Vegetation consists of low sagebrush, saltbush, rabbitbrush, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), barrel and prickly pear cactus, with greasewood in the steep drainages. The proposed well location is 5545 feet (1690.54 m) AMSL.

As mentioned above, the proposed LCU 2-16H well will be directionally drilled from the existing LCU #16-9H well. Therefore, the LCU #2-16H well's proposed access and pipeline is the existing road and pipeline associated with the existing LCU #16-9H well.

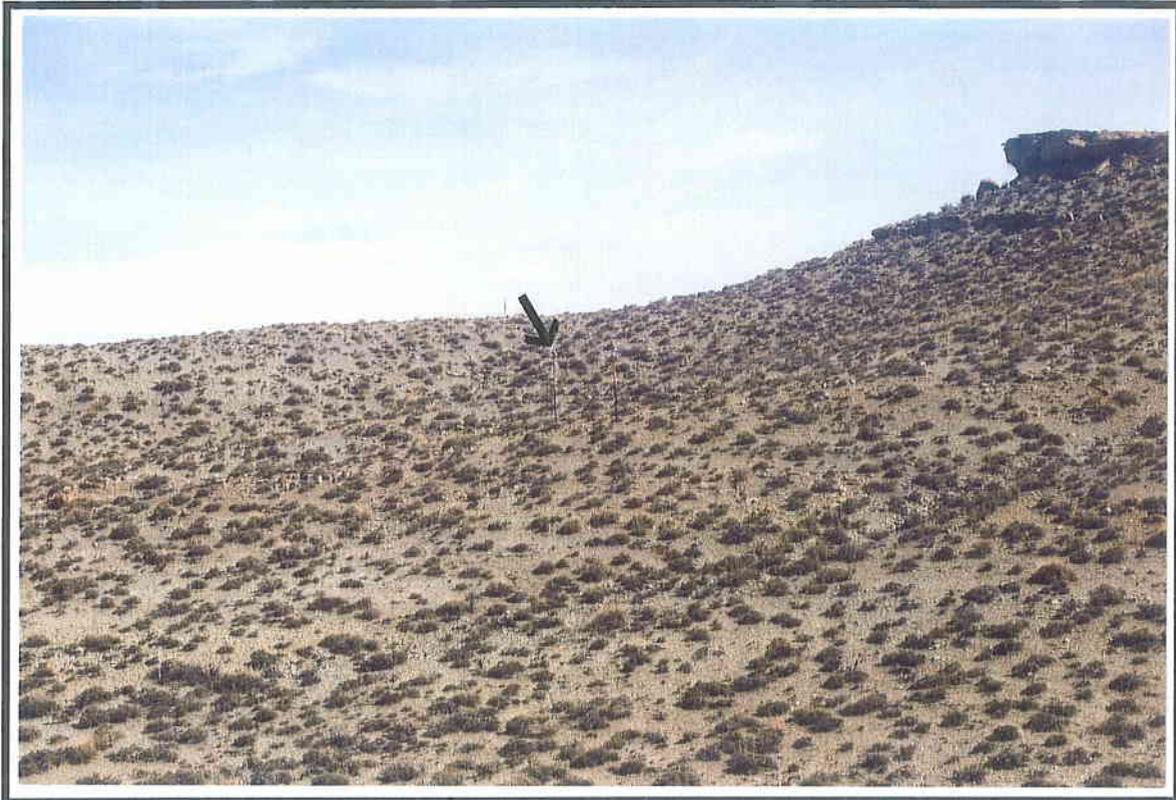


Figure 3. View to east of the hill slope and colluvial deposits on and surrounding the proposed LCU #2-16H well pad.

From an existing oil and gas field service road and pipeline, the LCU #12-9H well's access and pipeline trend 1000 feet (304.8 m) south to the well. The access and pipeline leave the existing road and pipeline and trend south up around the steep eastern talus slope of Big Pack Mountain to the head of a small drainage.

The access and pipeline then turn east and continue around the head of the drainage and along the steep talus slope of a west to east trending ridge to the well pad. Sediments along the access and pipeline are colluvial in nature. These colluvial sediments are shallow to moderately deep ( $\leq 5$  to 15 cm) and consist of poorly sorted, loosely compacted, sandy clay loam. The bench and ridges along the access and pipeline is dominated by exposed and eroding sandstone, clay and shale. Vegetation along the access and

pipeline consists of greasewood, low sagebrush, rabbitbrush, saltbush, Russian thistle, bunchgrasses (wheatgrass, cheat grass, Indian rice-grass), and prickly pear cactus.

### Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCU #2-16H well to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. As mentioned earlier, the proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well. Therefore, the LCU #2-16H well's proposed access and pipeline is the existing road and pipeline associated with the existing LCU #16-9H well. Thus, 0 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 10 (10 block, 0 linear) acres were surveyed for cultural resources by AIA within and around the proposed Dominion Exploration & Production, Inc. Little Canyon Unit (LCU) #2-16H well, and along its access and pipeline. The proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well. No cultural materials (sites and/or isolates) were recorded during the survey for the proposed LCU #2-16H well, 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 19.16 (10 block, 9.16 linear) acres were surveyed for cultural resources by AIA within and around the proposed Dominion Exploration & Production, Inc. Little Canyon Unit #2-16H well, and along its access and pipeline. The proposed LCU #2-16H well will be directionally drilled from the existing LCU #16-9H well. No cultural materials (sites and/or isolates) were recorded during the survey for the proposed LCU #2-16H well, 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 to moderately deep. However, 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 #2-16H well, its access and pipeline. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the Little Canyon Unit #2-16H well pad, its access, and pipeline.

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.

# PALEONTOLOGY EVALUATION SHEET

---

**PROJECT:** Dominion Well LCU #2-16H & 16-9H

**LOCATION:** Fifteen miles south of Ouray, Utah. Section 9, SE ¼ SE ¼, T11S, R20E, Uintah County, Utah.

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

**DATE:** March 20, 2007

**GEOLOGY/TOPOGRAPHY:** Road and Pipeline run southeast and south from the road from LCU#9-9H. This is in the lower part of the lower part of the Uinta Formation, and the top of the Green River Formation, both Upper Eocene. The location is on a north slope with a mix of rock exposures and slope wash.

**PALEONTOLOGY SURVEY:** YES [ X ] NO Survey [ ] PARTIAL Survey [ ]

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

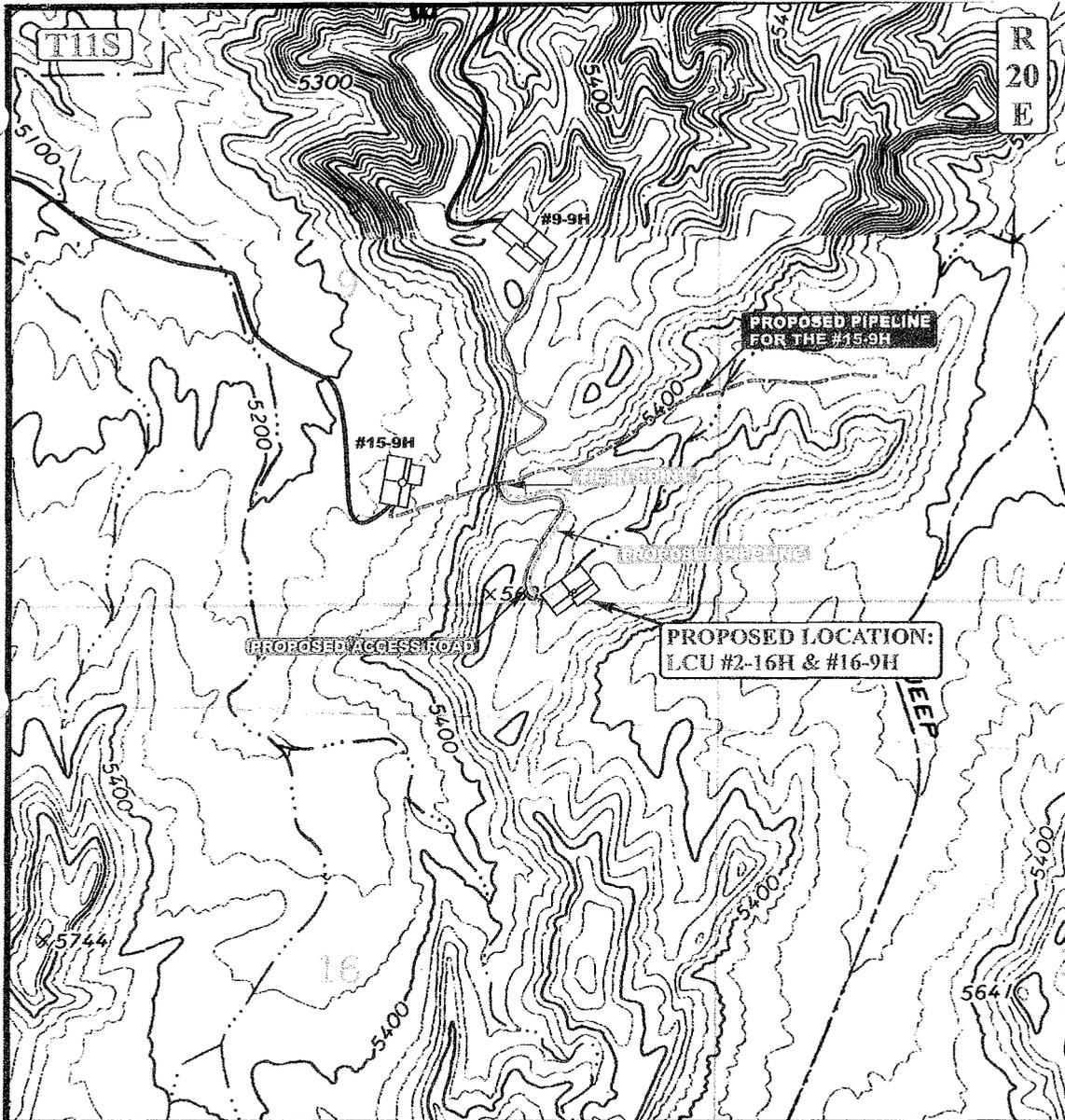
**PALEONTOLOGY SENSITIVITY:** HIGH [ ] MEDIUM [ ] LOW [ X ] (PROJECT SPECIFIC)

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

There is always some potential for discovery of significant paleontological resources in the Uinta and Green River Formations. 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,  
Ute Tribe Access Permits – 09/30/06 & 03/31/07. Utah Professional Geologist License – 5223011-2250.*



APPROXIMATE TOTAL PIPELINE DISTANCE = 1.435' +/-

**LEGEND:**

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

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

LCU #2-16H & #16-9H  
 SECTION 9, T11S, R20E, S.L.B.&M.  
 SE 1/4 SE 1/4



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



TOPOGRAPHIC MAP  
 MONTH DAY YEAR  
 11 03 06  
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 01/22/2009

API NO. ASSIGNED: 43-047-40492

WELL NAME: LCU 2-16H

OPERATOR: XTO ENERGY INC ( N2615 )

PHONE NUMBER: 435-722-4521

CONTACT: DON HAMILTON

PROPOSED LOCATION:

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DKD	3/9/09
Geology		
Surface		

NWNE

SESE 09 110S 200E

SURFACE: 0074 FSL 1057 FEL

BOTTOM: 0660 FNL 1980 FEL Sec. 16

COUNTY: UINTAH

LATITUDE: 39.86790 LONGITUDE: -109.6777

UTM SURF EASTINGS: 613093 NORTHINGS: 4413722

FIELD NAME: UNDESIGNATED ( 2 )

LEASE TYPE: 3 - State

PROPOSED FORMATION: WSMVD

LEASE NUMBER: ML-48772

COALBED METHANE WELL? NO

SURFACE OWNER: 1 - Federal

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. 43-10991 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- \_\_\_\_\_ R649-2-3.
- Unit: LITTLE CANYON *OK*
- \_\_\_\_\_ 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: 460' w/ bdry & uncomm. Tract
- R649-3-11. Directional Drill

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

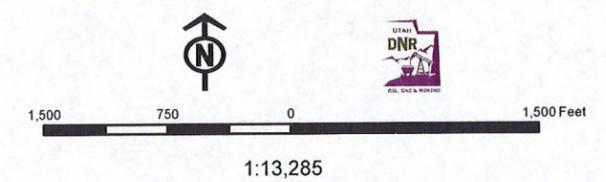
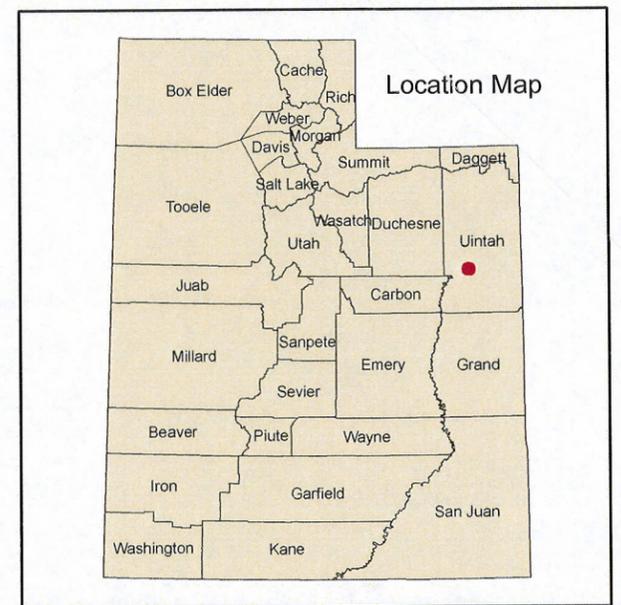
STIPULATIONS: \_\_\_\_\_  
1- Federal Approval  
2- STATEMENT OF BASIS  
\_\_\_\_\_  
\_\_\_\_\_



**API Number: 4304740492**  
**Well Name: LCU 2-16H**  
 Township 11.0 S Range 20.0 E Section 09  
**Meridian: SLBM**  
 Operator: XTO ENERGY INC

Map Prepared:  
 Map Produced by Diana Mason

- |               |                           |
|---------------|---------------------------|
| <b>Units</b>  | <b>Wells Query Events</b> |
| ACTIVE        | X <all other values>      |
| EXPLORATORY   | GIS_STAT_TYPE             |
| GAS STORAGE   | <Null>                    |
| NF PP OIL     | APD                       |
| NF SECONDARY  | DRL                       |
| PI OIL        | GI                        |
| PP GAS        | GS                        |
| PP GEOTHERML  | LA                        |
| PP OIL        | NEW                       |
| SECONDARY     | OPS                       |
| TERMINATED    | PA                        |
| <b>Fields</b> | PGW                       |
| ACTIVE        | POW                       |
| COMBINED      | RET                       |
| Sections      | SGW                       |
|               | SOW                       |
|               | TA                        |
|               | TW                        |
|               | WD                        |
|               | WI                        |
|               | WS                        |



# Application for Permit to Drill

## Statement of Basis

3/12/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
1326	43-047-40492-00-00		GW	F	No
<b>Operator</b>	XTO ENERGY INC	<b>Surface Owner-APD</b>			
<b>Well Name</b>	LCU 2-16H	<b>Unit</b> LITTLE CANYON			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	SESE 9 11S 20E S 74 FSL 1057 FEL	GPS Coord (UTM) 613093E 4413722N			

### Geologic Statement of Basis

XTO proposes to set 2,297 feet of surface casing cemented to the surface. The base of the moderately saline water is estimated at 3,900 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 depth is not listed. The well is owned by the BLM. Use is listed as stock/wildlife watering. The surface formation at this location is the Uinta Formation-Green River Formation transition. The Uinta Formation is made up of discontinuous sands interbedded with shales and are not expected to produce prolific aquifers. The Green River Formation is made up of interbedded sandstones, shales, and limestones. The Green River Formation can contain significant aquifers. The proposed casing and cementing programs 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

3/12/2009  
Date / Time

### Surface Statement of Basis

Surface rights at the proposed location are administered by the BLM. The operator is responsible for obtaining any needed permits and rights-of-way from the BLM.

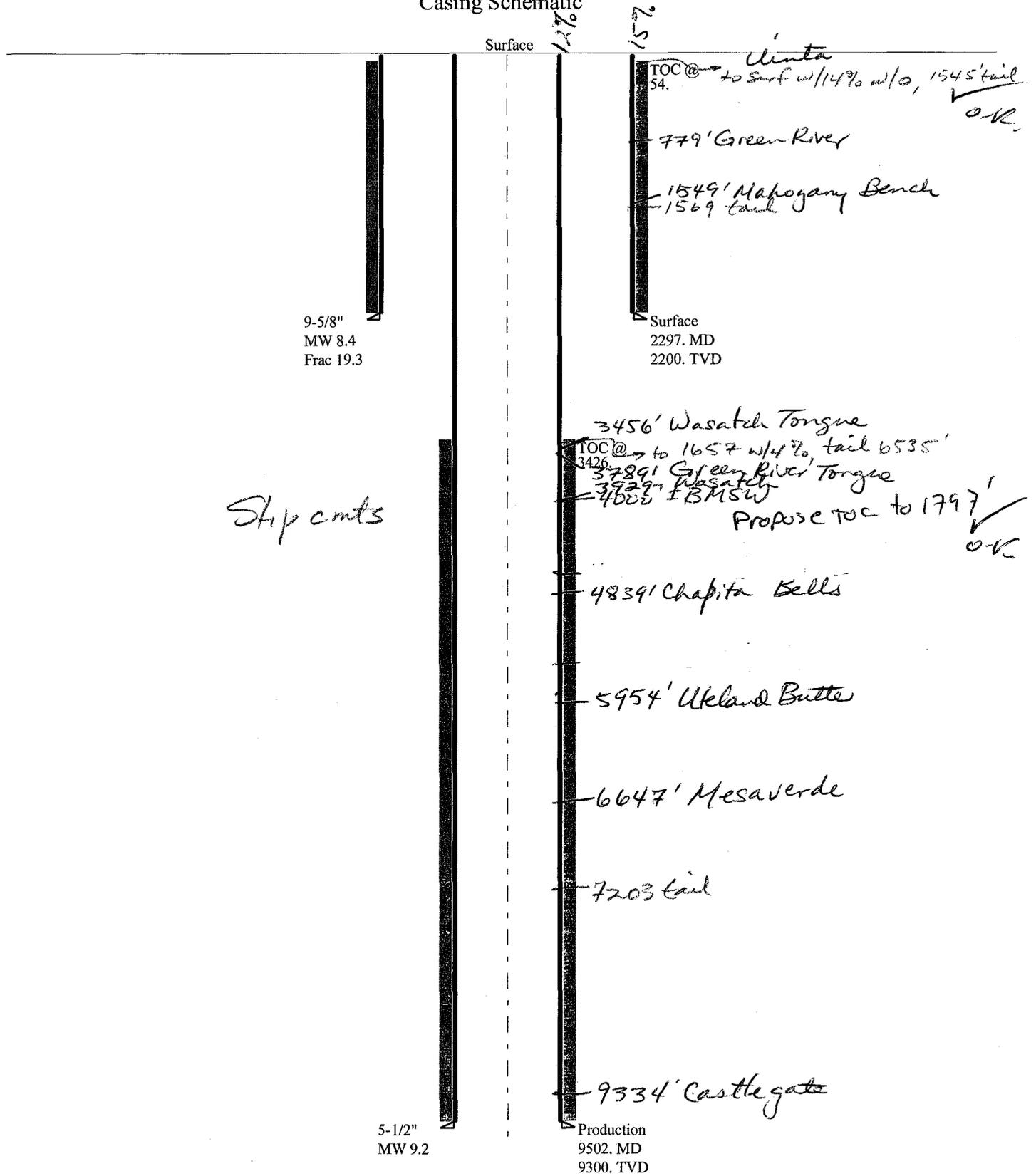
Brad Hill  
Onsite Evaluator

3/12/2009  
Date / Time

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

Category	Condition
	None

Casing Schematic



Well name:	<b>4304740492000 LCU 2-16H</b>	
Operator:	<b>XTO Energy, Inc.</b>	Project ID:
String type:	Surface	43-047-40492-0000
Location:	Uintah County	

<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: 54 ft
	Design factor 1.00	
<b>Burst</b>		
Max anticipated surface pressure: 1,936 psi	<b>Tension:</b>	<b>Directional well information:</b>
Internal gradient: 0.120 psi/ft	8 Round STC: 1.80 (J)	Kick-off point 0 ft
Calculated BHP 2,200 psi	8 Round LTC: 1.80 (J)	Departure at shoe: 578 ft
No backup mud specified.	Buttress: 1.60 (J)	Maximum dogleg: 3 °/100ft
	Premium: 1.50 (J)	Inclination at shoe: 20.36 °
	Body yield: 1.50 (B)	<b>Re subsequent strings:</b>
	Tension is based on air weight.	Next setting depth: 9,300 ft
	Neutral point: 2,005 ft	Next mud weight: 9.200 ppg
		Next setting BHP: 4,445 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	2297	9.625	36.00	J-55	ST&C	2200	2297	8.796	997

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 & Mining  
 Phone: 810-538-5357  
 Date: February 3, 2009, 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.  
 Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

Well name:	<b>4304740492000 LCU 2-16H</b>	
Operator:	<b>XTO Energy, Inc.</b>	Project ID:
String type:	Production	43-047-40492-0000
Location:	Uintah County	

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 2,399 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 4,445 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: 8,205 ft

**Environment:**

H2S considered? No  
 Surface temperature: 65 °F  
 Bottom hole temperature: 195 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 368 ft  
  
 Cement top: 3,426 ft

**Directional well information:**

Kick-off point: 0 ft  
 Departure at shoe: 1204 ft  
 Maximum dogleg: 3 °/100ft  
 Inclination at shoe: 0 °

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	9502	5.5	17.00	N-80	LT&C	9300	9502	4.767	1240.3

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	4445	6290	1.415	4445	7740	1.74	158	348	2.20 J

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

Phone: 810-538-5357

Date: February 3, 2009  
 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 9300 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.  
 Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

**BOPE REVIEW**

**XTO LCU 2-16H 43-047-40492-0000**

**INPUT**

Well Name	XTO	LCU 2-16H	43-047-40492-0000
	String 1	String 2	
Casing Size (")	10 3/4	5 1/2	
Setting Depth (TVD)	2200	9300	
Previous Shoe Setting Depth (TVD)	0	2200	
Max Mud Weight (ppg)	8.4	9.2	✓
BOPE Proposed (psi)	500	3000	
Casing Internal Yield (psi)	3520	7740	
Operators Max Anticipated Pressure (psi)	4600	9.5 ppg	✓

<b>Calculations</b>	<b>String 1</b>	<b>10 3/4 "</b>	
Max BHP [psi]	.052*Setting Depth*MW =	961	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	697	NO Diverter
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	477	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	477	NO
Required Casing/BOPE Test Pressure		2200 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		0 psi	*Assumes 1psi/ft frac gradient

<b>Calculations</b>	<b>String 2</b>	<b>5 1/2 "</b>	
Max BHP [psi]	.052*Setting Depth*MW =	4449	
			<b>BOPE Adequate For Drilling And Setting Casing at Depth?</b>
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	3333	NO
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	2403	YES ✓
			<b>*Can Full Expected Pressure Be Held At Previous Shoe?</b>
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	2887	NO Reasonable
Required Casing/BOPE Test Pressure		3000 psi	
*Max Pressure Allowed @ Previous Casing Shoe =		2200 psi	*Assumes 1psi/ft frac gradient



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

March 12, 2009

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

Re: LCU 2-16H Well, 74' FSL, 1057' FEL, SE SE, Sec. 9, T. 11 South, R. 20 East,  
Bottom Location 660' FNL, 1980' FEL, NW NE, Sec. 16, T. 11 South, R. 20 East,  
Uintah County, Utah

Gentlemen:

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

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40492.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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



Operator: XTO Energy, Inc.  
Well Name & Number LCU 2-16H  
API Number: 43-047-40492  
Lease: ML-48772

Location: SE SE Sec. 9 T. 11 South R. 20 East  
Bottom Location: NW NE Sec. 16 T. 11 South R. 20 East

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

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) 942-0871 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.

Page 2

43-047-40492

March 12, 2009

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 Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.
7. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

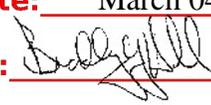
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-48772
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current 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 2-16H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047404920000
<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> 0074 FSL 1057 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 09 Township: 11.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/12/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> <b>APD EXTENSION</b>
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

**Date:** March 04, 2010  
**By:** 

<b>NAME (PLEASE PRINT)</b> Eden Fine	<b>PHONE NUMBER</b> 505 333-3664	<b>TITLE</b> Permitting Clerk
<b>SIGNATURE</b> N/A		<b>DATE</b> 3/4/2010



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047404920000**

**API:** 43047404920000

**Well Name:** LCU 2-16H

**Location:** 0074 FSL 1057 FEL QTR SESE SEC 09 TWNP 110S RNG 200E MER S

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

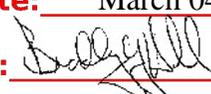
**Date Original Permit Issued:** 3/12/2009

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

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

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

**Signature:** Eden Fine                      **Date:** 3/4/2010  
**Title:** Permitting Clerk **Representing:** XTO ENERGY INC

**Date:** March 04, 2010  
**By:** 

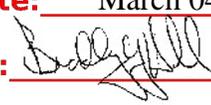
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-48772
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current 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 2-16H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047404920000
<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 FOOTAGES AT SURFACE:</b> 0074 FSL 1057 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 09 Township: 11.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/12/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

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

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

**Date:** March 04, 2010  
**By:** 

<b>NAME (PLEASE PRINT)</b> Eden Fine	<b>PHONE NUMBER</b> 505 333-3664	<b>TITLE</b> Permitting Clerk
<b>SIGNATURE</b> N/A		<b>DATE</b> 3/4/2010



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047404920000**

**API:** 43047404920000

**Well Name:** LCU 2-16H

**Location:** 0074 FSL 1057 FEL QTR SESE SEC 09 TWNP 110S RNG 200E MER S

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

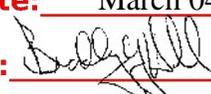
**Date Original Permit Issued:** 3/12/2009

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

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- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
- Has the approved source of water for drilling changed?  Yes  No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
- Is bonding still in place, which covers this proposed well?  Yes  No

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

**Signature:** Eden Fine                      **Date:** 3/4/2010  
**Title:** Permitting Clerk **Representing:** XTO ENERGY INC

**Date:** March 04, 2010  
**By:** 

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-48772
<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 2-16H
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	<b>9. API NUMBER:</b> 43047404920000
<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> 0074 FSL 1057 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 09 Township: 11.0S Range: 20.0E Meridian: S	<b>9. FIELD and POOL or WILDCAT:</b> HILL CREEK  <b>COUNTY:</b> UINTAH  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 3/8/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION 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 hereby requests a one (1) year extension of the State APD for the referenced well.

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

Date: 03/09/2011  
By: 

<b>NAME (PLEASE PRINT)</b> Krista Wilson	<b>PHONE NUMBER</b> 505 333-3647	<b>TITLE</b> Permitting Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 3/8/2011



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047404920000**

**API:** 43047404920000

**Well Name:** LCU 2-16H

**Location:** 0074 FSL 1057 FEL QTR SESE SEC 09 TWP 110S RNG 200E MER S

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

**Date Original Permit Issued:** 3/12/2009

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

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

**Signature:** Krista Wilson

**Date:** 3/8/2011

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

<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-48772	
<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>8. WELL NAME and NUMBER:</b> LCU 2-16H	
<b>9. API NUMBER:</b> 43047404920000	
<b>9. FIELD and POOL or WILDCAT:</b> HILL CREEK	
<b>9. COUNTY:</b> Uintah	
<b>9. STATE:</b> UTAH	
<b>1. TYPE OF WELL</b> Gas Well	
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC	
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410	
<b>PHONE NUMBER:</b> 505 333-3145 Ext	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0074 FSL 1057 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 09 Township: 11.0S Range: 20.0E Meridian: S	

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

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

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

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

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

**Date:** March 12, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Richard L. Redus	<b>PHONE NUMBER</b> 303 397-3712	<b>TITLE</b> Regulatory
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/5/2012	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047404920000**

API: 43047404920000

Well Name: LCU 2-16H

Location: 0074 FSL 1057 FEL QTR SESE SEC 09 TWP 110S RNG 200E MER S

Company Permit Issued to: XTO ENERGY INC

Date Original Permit Issued: 3/12/2009

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

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- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Richard L. Redus

Date: 3/5/2012

Title: Regulatory

Representing: XTO ENERGY INC



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

March 20, 2013

43 047 40492  
LCU 2-16H  
11S 20E 9

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

Re: APDs Rescinded for XTO Energy Inc.  
Uintah/Emery County

Dear Mr. Redus:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 20, 2013.

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

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

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal  
SITLA, Ed Bonner



## Fwd: APDs

**Brad Hill** <bradhill@utah.gov>  
To: Diana Mason <DIANAWHITNEY@utah.gov>

Wed, Mar 20, 2013 at 2:35 PM

Here are some you can get rid of.

----- Forwarded message -----

From: **Redus, Richard** <Richard\_Redus@xtoenergy.com>  
Date: Wed, Mar 20, 2013 at 2:31 PM  
Subject: APDs  
To: "bradhill@utah.gov" <bradhill@utah.gov>

Mr Hill,

Please cancel the below APD's as XTO will not be drilling these wells within the foreseeable future.

XTO ENERGY INC	4304737569	RBU 14-15F	DRILL	01/12/2006	01/12/2013
XTO ENERGY INC	4304752133	LCU 4-16H	DRILL	01/12/2012	01/12/2013
XTO ENERGY INC	4301530704	UT FED 18-7-22-24	DRILL	01/24/2007	01/24/2013
XTO ENERGY INC	4304737648	RBU 6-4E	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737652	RBU 7-16F	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304737653	LCU 14-9H	DRILL	01/30/2006	01/30/2013
XTO ENERGY INC	4304751354	KC 15-32E	DRILL	02/03/2011	02/03/2013
XTO ENERGY INC	4304736295	RBU 10-21E	DRILL	02/09/2005	02/09/2013
XTO ENERGY INC	4304740524	RBU 30-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740529	RBU 21-24E	DRILL	02/10/2009	02/10/2013

XTO ENERGY INC	4304740530	RBU 28-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740531	RBU 23-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740532	RBU 31-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304740533	RBU 25-23E	DRILL	02/10/2009	02/10/2013
XTO ENERGY INC	4304739050	LCU 15-4H	DRILL	02/12/2007	02/12/2013
XTO ENERGY INC	4304739051	KC 15-31E	DRILL	02/21/2007	02/21/2013
XTO ENERGY INC	4304752053	AP 14-2J	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752054	AP 16-2J	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752055	AP 5-2JX	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752102	LCU 16-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752103	LCU 2-2H	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752104	LCU 4-2H	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752106	LCU 7-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752108	LCU 2-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304752109	LCU 4-36F	DRILL	02/29/2012	02/28/2013
XTO ENERGY INC	4304739068	KC 7-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304739069	KC 13-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304739070	KC 15-33E	DRILL	03/05/2007	03/05/2013
XTO ENERGY INC	4304737748	RBU 14-16F	DRILL	03/09/2006	03/09/2013

XTO ENERGY INC	4304740588	RBU 22-24E	DRILL	03/11/2009	03/11/2013
XTO ENERGY INC	4304740492	LCU 2-16H	DRILL	03/12/2009	03/12/2013
XTO ENERGY INC	4304740493	LCU 1-16H	DRILL	03/12/2009	03/12/2013
XTO ENERGY INC	4304739158	LCU 15-3H	DRILL	03/28/2007	03/28/2013
XTO ENERGY INC	4304739159	LCU 5-3H	DRILL	03/28/2007	03/28/2013

Rick Redus

Permitting Specialist

XTO Energy Western Division

Wrk: 303-397-3712

Cell: 720-539-1673

**From:** bradhill@utah.gov [mailto:bradhill@utah.gov]  
**Sent:** Monday, March 04, 2013 1:20 PM  
**To:** Redus, Richard  
**Subject:** Sundry For API Well Number 43047364300000

Notice of Intent: APD\_EXTENSION API Number: 43047364300000 Operator: XTO ENERGY INC  
 Approved: 3/4/2013

—  
 Brad Hill P.G.  
 O & G Permitting Manager/Petroleum Geologist  
 State of Utah  
 Division of Oil, Gas, & Mining  
 Phone: (801)538-5315  
 Fax: (801)359-3940  
 email: bradhill@utah.gov



## United States Department of the Interior



### BUREAU OF LAND MANAGEMENT

Green River District

Vernal Field Office

170 South 500 East

Vernal, UT 84078

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

March 14, 2103

IN REPLY REFER TO:  
3160 (UTG011)

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

43 047 40492

Re: Request to Return APD  
Well No. LCU 2-16H  
SESE, Sec. 9, T11S, R20E  
Uintah County, Utah  
Lease No. STATE (ML-48772)  
Little Canyon Unit

Dear Mr. Redus:

The Application for Permit to Drill (APD) for the above referenced well received in this office on January 20, 2009, is being returned unapproved per your request to this office in an email message to Natural Resource Specialist David Gordon received on December 18, 2012. If you intend to drill at this location at a future date, a new APD must be submitted.

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

Sincerely,

/s/ Jerry Kenczka

Jerry Kenczka  
Assistant Field Manager  
Lands & Resource Minerals

Enclosures

cc: UDOGM

bcc: Well File  
Don Hamilton

RECEIVED

MAR 26 2013

DIV. OF OIL, GAS & MINING