

June 24, 2005

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

RE: Application for Permit to Drill—Dominion Exploration & Production, Inc.  
LCU 7-1H, 1,906' FNL & 1,790' FEL, SW/4 NE/4,  
Section 1, T11S, R20E, SLB&M, Uintah County, Utah

Dear Fluid Minerals Group:

On behalf of Dominion Exploration & Production, Inc. (Dominion), Buys & Associates, Inc. respectfully submits the enclosed original and two copies of the *Application for Permit to Drill (APD)* for the above referenced well. Included with the APD is the following supplemental information:

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

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

Exhibit "C" - Production site layout;

Exhibit "D" - Drilling Plan;

Exhibit "E" - Surface Use Plan;

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

Please accept this letter as Dominion's, written request for confidential treatment of all information contained in and pertaining to this application.

Thank you very much for your timely consideration of this application. Please feel free to contact myself or Carla Christian of Dominion at 405-749-5263 if you have any questions or need additional information.

Sincerely,

*Don Hamilton*

Don Hamilton  
Agent for Dominion

cc: Diana Whitney, Division of Oil, Gas and Mining  
Carla Christian, Dominion  
Marty Buys, Buys & Associates, Inc.

RECEIVED

JUN 29 2005

DIV. OF OIL, GAS & MINING

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**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**

**APPLICATION FOR PERMIT TO DRILL OR DEEPEN**

1a. TYPE OF WORK <b>DRILL</b> <input checked="" type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. <b>UTU-76264</b>
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME <b>N/A</b>
2. NAME OF OPERATOR <b>Dominion Exploration &amp; Production, Inc.</b>		7. UNIT AGREEMENT NAME <b>Little Canyon Unit</b>
3. ADDRESS AND TELEPHONE NO. <b>14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263</b>		8. FARM OR LEASE NAME, WELL NO. <b>LCU 7-1H</b>
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. *) At surface: <b>1,906' FNL &amp; 1,790' FEL, SW/4 NE/4, 4416403 Y -109.624040</b> At proposed prod. zone: <b>1,906' FNL &amp; 1,790' FEL, SW/4 NE/4.</b>		9. API WELL NO. <b>43-047-36803</b>
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* <b>13.89 miles southeast of Ouray, Utah</b>		10. FIELD AND POOL, OR WILDCAT <b>Natural Gas Undersignated</b>
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) <b>735'</b>	16. NO. OF ACRES IN LEASE <b>640</b>	11. SEC., T., R., M., OR BLK. <b>Section 1, T11S, R20E, SLB&amp;M</b>
18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. <b>1,100'</b>	19. PROPOSED DEPTH <b>8,950'</b>	12. COUNTY OR PARISH <b>Uintah</b>
21. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>5,410' GR</b>		13. STATE <b>Utah</b>
17. NO. OF ACRES ASSIGNED TO THIS WELL <b>40 acres</b>		20. ROTARY OR CABLE TOOLS <b>Rotary</b>
22. APPROX. DATE WORK WILL START* <b>November 15, 2005</b>		

23. PROPOSED CASING AND CEMENTING PROGRAM				
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55 ST&C	32#	2,000'	252 sks Lead, 219 sks, tail, 100 sks top out—see attached Drilling Plan
7-7/8"	5-1/2" Mav 80 LT&C	17#	8,950'	160 sks Lead, 435 sks Tail—see attached Drilling Plan

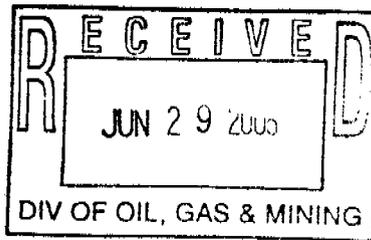
**Bond Information:**

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 0330

**Other Information:**

Drilling Plan and Surface Use Plan are attached.  
Dominion requests that this complete application for permit to drill be held confidential.

*Federal Approval of this Action is Necessary*



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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Don Hamilton Don Hamilton TITLE Agent for Dominion DATE June 24, 2005

(This space for Federal or State office use)  
PERMIT NO. 43-047-36803 APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY Bradley G. Hill TITLE BRADLEY G. HILL ENVIRONMENTAL SCIENTIST III DATE 07-11-05

**\*See Instructions On Reverse Side**

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

SW COR. 35, 1928 Brass Cap, 1.2' High, Steel Post, Pile of Stones

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

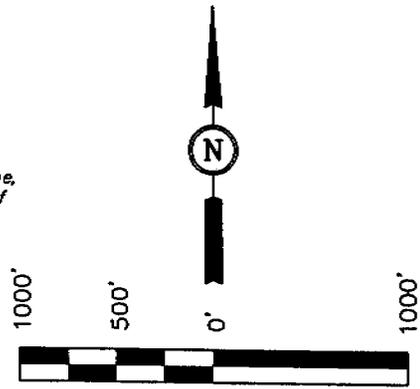
DOMINION EXPLR. & PROD., INC.

Well location, LCU #7-1H, located as shown in the SW 1/4 NE 1/4 of Section 1, T11S, R20E, S.L.B.&M. Uintah County Utah.

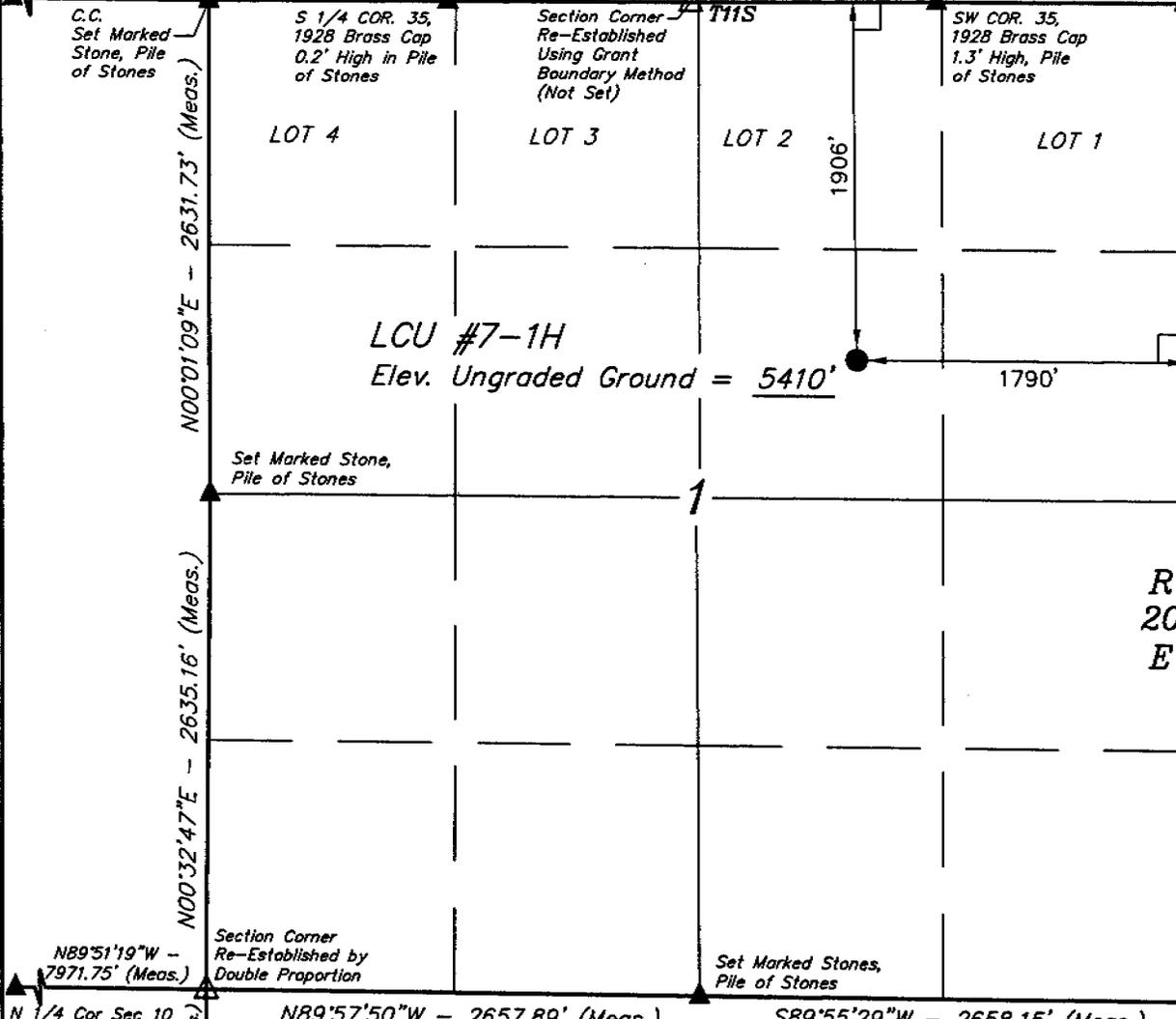
N89°57'29"W - 2634.30' (Meas.)  
 S89°34'E - 1306.80' (G.L.O.)  
 N89°57'E - 1356.30' (G.L.O.)  
 N89°44'05"E - 2655.33' (Meas.)  
 S89°52'39"W - 1317.46' (Meas.)  
 T10S  
 S89°35'39"W - 1337.88' (Meas.)  
 S89°54'00"W - 1346.91' (Meas.)  
 SW COR. 35, 1928 Brass Cap 1.3' High, Pile of Stones

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

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



**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 TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
*[Signature]*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH



**LEGEND:**  
 L = 90° SYMBOL  
 ● = PROPOSED WELL HEAD.  
 ▲ = SECTION CORNERS LOCATED.  
 △ = SECTION CORNERS RE-ESTABLISHED. (NOT SET)

(NAD 83)  
 LATITUDE = 39°53'29.04" (39.891400)  
 LONGITUDE = 109°37'28.85" (109.624681)  
 (NAD 27)  
 LATITUDE = 39°53'29.16" (39.891433)  
 LONGITUDE = 109°37'26.37" (109.623992)

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b> 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 4-7-05	DATE DRAWN: 4-13-05
PARTY B.B. J.M. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE DOMINION EXPLR. & PROD., INC	

N 1/4 Cor Sec 10 Set Marked Stone, Pile of Stones  
 N89°51'19"W - 7971.75' (Meas.)  
 N00°32'47"E - 2635.16' (Meas.)  
 Section Corner Re-Established by Double Proportion  
 N00°01'09"E - 2631.73' (Meas.)  
 S 1/4 COR. 35, 1928 Brass Cap 0.2' High in Pile of Stones  
 Section Corner Re-Established Using Grant Boundary Method (Not Set)  
 SW COR. 35, 1928 Brass Cap 1.3' High, Pile of Stones  
 C.C. Set Marked Stone, Pile of Stones  
 E 1/4 Cor Sec 14 Set Marked Stone, Scattered Stones  
 N00°21'22"W - 7905.27' (Meas.)

# DRILLING PLAN

## APPROVAL OF OPERATIONS

### Attachment for Permit to Drill

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** LCU 7-1H  
1906' FNL & 1790' FEL  
Section 1-11S-20E  
Uintah County, UT

1. GEOLOGIC SURFACE FORMATION Uintah
2. ESTIMATED DEPTHS OF IMPORTANT GEOLOGIC MARKERS

<u>Formation</u>	<u>Depth</u>
Wasatch Tongue	3,675'
Green River Tongue	4,005'
Wasatch	4,145'
Chapita Wells	5,005'
Uteland Buttes	6,060'
Mesaverde	6,825'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

<u>Formation</u>	<u>Depth</u>	<u>Type</u>
Wasatch Tongue	3,675'	Oil
Green River Tongue	4,005'	Oil
Wasatch	4,145'	Gas
Chapita Wells	5,005'	Gas
Uteland Buttes	6,060'	Gas
Mesaverde	6,825'	Gas

4. PROPOSED CASING PROGRAM

All casing used to drill this well will be new casing.

<u>Type</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Conn.</u>	<u>Top</u>	<u>Bottom</u>	<u>Hole</u>
Surface	8-5/8"	32.0 ppf	J-55	STC	0'	2,000'	12-1/4"
Production	5-1/2"	17.0 ppf	MAV-80	LTC	0'	8,950'	7-7/8"

Note: The drilled depth of the surface hole and the setting depth of the surface casing may vary from 1,700' to 2,000'. Should a lost circulation zone be encountered while drilling, casing will be set approximately 300' below the lost circulation zone. If no lost circulation zone is encountered, casing to be set at 2,000'±.

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## DRILLING PLAN

### APPROVAL OF OPERATIONS

#### 5. OPERATOR'S MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

Surface hole: No BOPE will be utilized. Air foam mist, rotating head and diverter system will be utilized.

Production hole: Prior to drilling out the surface casing shoe, 3,000 psi or greater BOP equipment will be installed. The pipe rams will be operated at least once per day from intermediate casing to total depth. The blind rams will be tested once per day from intermediate casing to total depth if operations permit.

A diagram of the planned BOP equipment for normal drilling operations in this area is attached. As denoted there will be two valves and one check valve on the kill line, two valves on the choke line, and two adjustable chokes on the manifold system. The BOP "stack" will consist of two BOP rams (1 pipe, 1 blind) and one annular type preventer, all rated to a minimum of 3,000 psi working pressure.

The BOP equipment will be pressure tested prior to drilling below the intermediate casing shoe. All test pressures will be maintained for fifteen (15) minutes without any significant pressure decrease. Clear water will be circulated into the BOP stack and lines prior to pressure testing. The following test pressures will be used as a minimum for various equipment items.

1.	Annular BOP	1,500 psi
2.	Ram type BOP	3,000 psi
3.	Kill line valves	3,000 psi
4.	Choke line valves and choke manifold valves	3,000 psi
5.	Chokes	3,000 psi
6.	Casing, casinghead & weld	1,500 psi
7.	Upper kelly cock and safety valve	3,000 psi
8.	Dart valve	3,000 psi

#### 6. MUD SYSTEMS

- An air or an air/mist system may be used to drill the surface hole until water influx becomes too great.
- KCL mud system will be used to drill well.

<u>Depths</u>	<u>Mud Weight (ppg)</u>	<u>Mud System</u>
0' - 2,000'	8.4	Air foam mist, rotating head and diverter
2,000' - 8,950'	8.6	Fresh water/2% KCL/KCL mud system

#### 7. BLOOIE LINE

- An automatic igniter will not be installed on blooie line. The blooie will have a constant ignition source.
- A "target tee" connection will be installed on blooie line for 90° change of directions for abrasion resistance.
- "Target tee" connections will be a minimum of 50' from wellhead.
- The blooie line discharge will be a minimum of 100' from the wellhead.

#### 8. AUXILIARY EQUIPMENT TO BE USED

- a. Kelly cock.
- b. Full opening valve with drill pipe connection will be kept on floor. Valve will be used when the kelly is not in string.

#### 9. TESTING, LOGGING, AND CORING PROGRAMS TO BE FOLLOWED

- A drillstem test in the Wasatch Tongue is possible.
- One electric line wire-log will be run from total depth to surface casing.
- The gamma ray will be left on to record from total depth to surface casing.
- Other log curves (resistivities, porosity, and caliper) will record from total depth to surface casing.
- A dipmeter, percussion cores, or rotary cores may be run over selected intervals.

#### 10. ANTICIPATED ABNORMAL PRESSURES OR TEMPERATURES EXPECTED

- Expected BHP 1,500-2,000 psi (lower than normal pressure gradient).
- No abnormal temperature or pressures are anticipated.
- The formations to be penetrated do not contain known H2S gas.

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**DRILLING PLAN**

**APPROVAL OF OPERATIONS**

**11. WATER SUPPLY**

- No water pipelines will be laid for this well.
- No water well will be drilled for this well.
- Drilling water for this will be hauled on the road(s) shown in Attachment No. 3.
- Water will be hauled from: Water Permit # 43-10447 Section 9, Township 8 South, Range 20 East

**12. CEMENT SYSTEMS**

**a. Surface Cement:**

- Drill 12-1/4" hole to 2,000'±, run and cement 8-5/8" to surface (depth to vary based on depth of lost circulation zone).
- Pump 20 bbls lightly weighted water spacer followed by 5 bbls fresh water. Displace with any available water.
- Casing to be run with: a) guide shoe b) insert float c) three (3) centralizers, one on each of first 3 joints d) stop ring for plug two joints off bottom e) bottom three joints thread locked f) pump job with bottom plug only.
- Cement the casing annulus to surface. Top out jobs to be performed if needed. Depending to depth of top of cement in the annulus, a 1" tubing string may or may not be utilized.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole Volume</u>	<u>Cement Volume</u>	<u>Excess</u>
Lead	252	0'-1,500'	11.0 ppg	3.82 CFS	619 CF	835 CF	35%
Tail	219	1,500'-2,000'	15.6 ppg	1.18 CFS	220 CF	297 CF	35%
Top Out	100	0'-200'	15.6 ppg	1.18 CFS	95 CF	118 CF	24% (if required)

**Lead Mix:** Premium Plus V blend. Blend includes Class "G" cement, gel, salt, gilsonite.  
 Slurry yield: 3.82 cf/sack      Slurry weight: 11.00 #/gal.  
 Water requirement: 22.95 gal/sack

**Tail Mix:** Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
 Slurry yield: 1.18 cf/sack      Slurry weight: 15.60 #/gal.  
 Water requirement: 5.2 gal/sack

**Top Out:** Class "G" Cement, 1/4 lb/sk Cellophane Flakes + 2% bwoc Calcium Chloride + 44.3% fresh water.  
 Slurry yield: 1.18 cf/sack      Slurry weight: 15.60 #/gal.  
 Water requirement: 5.2 gal/sack

**c. Production Casing Cement:**

- Drill 7-7/8" hole to 8,950±, run and cement 5 1/2".
- Cement interface is at 4,000', which is typically 500'-1,000' above shallowest pay.
- Pump 20 bbl Mud Clean II unweighted spacer, followed by 20 Bbls fresh H2O spacer.
- Displace with 3% KCL.

<u>Type</u>	<u>Sacks</u>	<u>Interval</u>	<u>Density</u>	<u>Yield</u>	<u>Hole Volume</u>	<u>Cement Volume</u>	<u>Excess</u>
Lead	160	3,700'-4,700'	11.5 ppg	3.12 CFS	175 CF	350 CF	100%
Tail	435	4,700'-8,950'	13.0 ppg	1.75 CFS	473 CF	946 CF	100%

Note: A caliper log will be ran to determine cement volume requirements.

**Lead Mix:** Halliburton Prem Plus V blend. Blend includes Class "C" cement, gel, salt, gilsonite, EX-1 and HR-7.  
 Slurry yield: 3.12 cf/sack      Slurry weight: 11.60 #/gal.  
 Water requirement: 17.71 gal/sack  
 Compressives @ 130°F: 157 psi after 24 hours

**Tail Mix:** Halliburton HLC blend (Prem Plus V/JB flyash). Blend includes Class "G" cement, KCl, EX-1, Halad 322, & HR-5.  
 Slurry yield: 1.75 cf/sack      Slurry weight: 13.00 #/gal.  
 Water requirement: 9.09 gal/sack  
 Compressives @ 165°F: 905 psi after 24 hours

**13. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS**

Starting Date: November 15, 2005  
 Duration: 14 Days

**SURFACE USE PLAN**

**CONDITIONS OF APPROVAL**

*Attachment for Permit to Drill*

**Name of Operator:** Dominion Exploration & Production  
**Address:** 14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134  
**Well Location:** LCU 7-1H  
1906' FNL & 1790' FEL  
Section 1-11S-20E  
Uintah County, UT

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The federal onsite inspection for the referenced well was conducted on Thursday, May 19, 2005 at approximately 11:30 am. In attendance at the onsite inspection were the following individuals:

Ken Secrest	Foreman	Dominion E & P, Inc.
Robert Kay	Professional Engineer	Uintah Engineering and Land Surveying
Stan Olmstead	Nat. Res. Prot. Spec.	Bureau of Land Management – Vernal
Karl Wright	Nat. Res. Prot. Spec.	Bureau of Land Management – Vernal
Amy Torres	Biologist	Bureau of Land Management – Vernal

1. Existing Roads:

- a. The proposed well site is located approximately 13.89 miles southeast of Ouray, UT.
- b. Directions to the proposed well site have been attached at the end of Exhibit B.
- c. The use of roads under State and County Road Department maintenance are necessary to access the Little Canyon Unit. 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 or utility corridor since both are located within the existing Little Canyon Unit boundary.

2. Planned Access Roads:

- a. Access to the proposed LCU 7-1H utilizes the proposed and permitted access to the LCU 2-1H with no new access being applied for at this time.

3. Location of Existing Wells:

- a. Existing wells within a 1 mile radius of the proposed well location have been shown on Topo C of Exhibit B.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown 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. With this application Dominion requests permission to upgrade the proposed 4" surface pipeline to a 6" surface pipeline across Federal surface south of the LCU 7-1H to the proposed 6" line previously requested with a sundry application within the Little Canyon Unit to accommodate additional transportation needs
- i. Dominion intends on installing the pipeline on the surface by welding many joints into long lengths, dragging the long lengths into position and then completing a final welding pass to join the long lengths together. Dominion intends on connecting the pipeline together utilizing conventional welding technology.

5. Location and Type of Water Supply:

- a. The location and type of water supply has been addressed as number 11 within the previous drilling plan information.

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 Disposal:

- 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 northeast 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 12 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 Dominion 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.

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 south.
- c. The pad and road designs are consistent with BLM specification
- d. A pre-construction meeting with responsible company representative, contractors, and the BLM will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size of 355' X 200'; 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:

- 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. 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 and 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.
- c. 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 recontoured to the approximate natural contours.
- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- e. Prior to reseeding 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 Fee owner or BLM. The fee owner or BLM recommended seed mix will be detailed within their approval documents.

11. Surface and Mineral Ownership:

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

12. Other Information:

- a. AIA Archaeological has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by AIA Archaeological.
- b. Alden Hamblin has conducted a paleontological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Alden Hamblin.
- c. 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. The approval documents will have stipulations and timing restrictions for the protection of pronghorn antelope.

13. Operator's Representative and Certification

<u>Title</u>	<u>Name</u>	<u>Office Phone</u>
Company Representative (Roosevelt)	Mitchiel Hall	1-435-722-4521
Company Representative (Oklahoma)	Carla Christian	1-405-749-5263
Agent for Dominion	Don Hamilton	1-435-637-4075

Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exists; 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 by Dominion Exploration & Production, Inc. and its contractors and subcontractors in conformity with this APD package and the terms and conditions under which it is approved. I also certify responsibility for the operations conducted on that portion of the leased lands associated with this application, with bond coverage being provided under Dominion's BLM bond. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Signature: Don Hamilton Date: 6-24-05

DOMINION EXPLR. & PROD., INC.  
LCU #7-1H  
SECTION 1, 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 DIRECTION APPROXIMATELY 13.5 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHWEST; TURN RIGHT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 2.0 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #2-12H TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #2-1H TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.7 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 49.2 MILES.

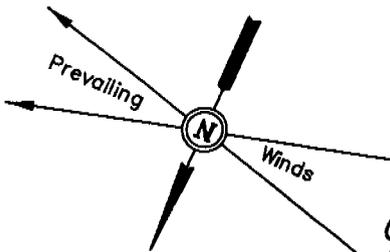
DOMINION EXPLR. & PROD., INC.

LOCATION LAYOUT FOR

LCU #7-1H  
SECTION 1, T11S, R20E, S.L.B.&M.  
1906' FNL 1790' FEL

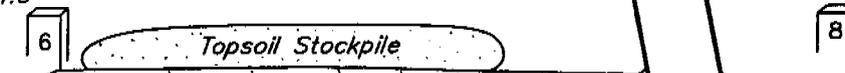
Proposed Access Road for the #2-1H

F-0.1'  
El. 408.8'



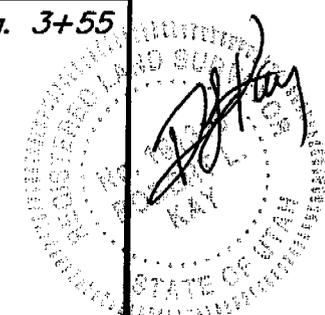
SCALE: 1" = 50'  
DATE: 4-13-05  
Drawn By: K.G.

C-2.7'  
El. 411.6'



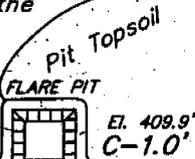
Sta. 3+55

C-3.1'  
El. 412.0'



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

Approx. Top of Cut Slope



El. 410.0'  
C-11.1'  
(btm. pit)



El. 409.8'  
C-0.9'

C-0.8'  
El. 409.7'

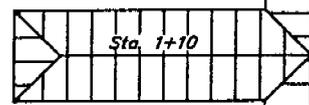
Sta. 1+80

C-1.1'  
El. 410.0'

Reserve Pit Backfill & Spoils Stockpile



Total Pit Capacity  
W/2' of Freeboard  
= 10,750 Bbls. ±  
Total Pit Volume  
= 3,120 Cu. Yds.



RESERVE PITS  
(8' Deep)

El. 405.4'  
C-4.5'  
(btm. pit)



20' WIDE BENCH

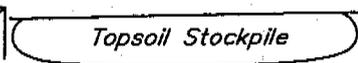
F-2.7'  
El. 406.2'

F-3.5'  
El. 405.4'

Sta. 0+00

Approx. Toe of Fill Slope

F-3.9'  
El. 405.0'



F-2.1'  
El. 406.8'

Proposed Access Road for the #2-1H

Elev. Ungraded Ground at Location Stake = 5409.7'  
Elev. Graded Ground at Location Stake = 5408.9'

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

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

**TYPICAL CROSS SECTIONS FOR**

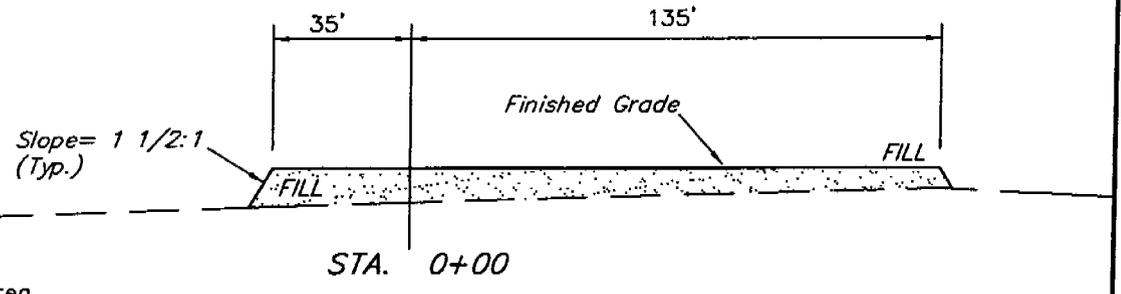
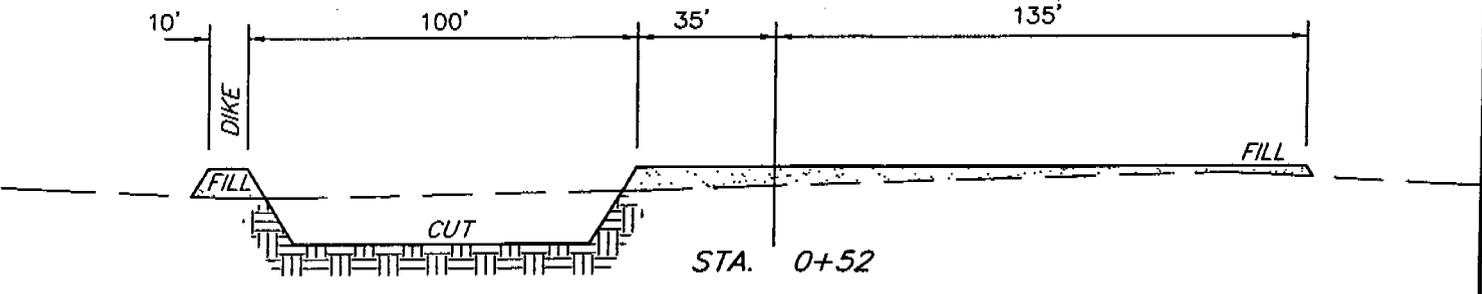
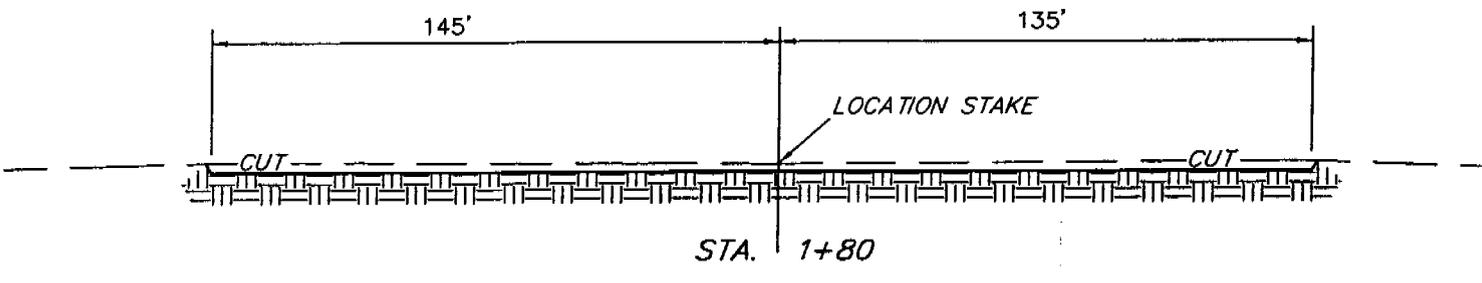
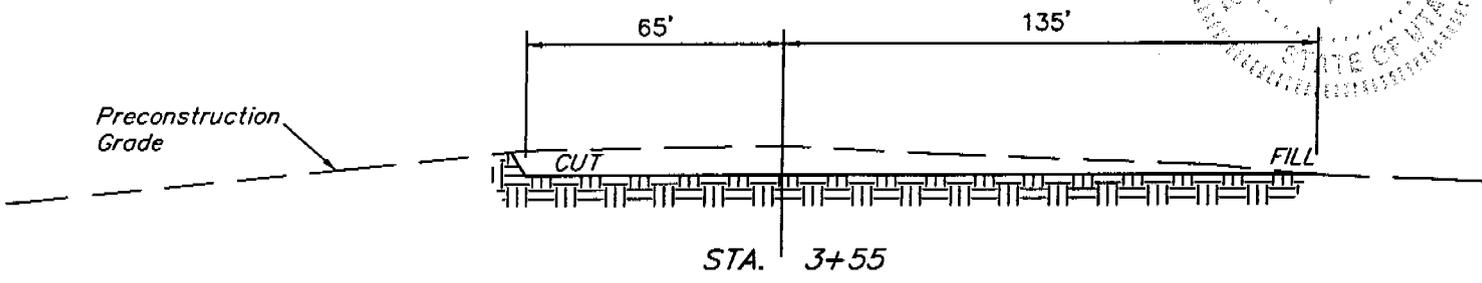
**LCU #7-1H**

**SECTION 1, T11S, R20E, S.L.B.&M.**

**1906' FNL 1790' FEL**

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

DATE: 4-13-05  
Drawn By: K.G.



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

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,680 Cu. Yds.
Remaining Location	= 3,790 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 5,470 CU.YDS.</b>
<b>FILL</b>	<b>= 2,230 CU.YDS.</b>

EXCESS MATERIAL	= 3,240 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,240 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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

# DOMINION EXPLR. & PROD., INC.

LCU #7-1H

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 1, T11S, R20E, S.L.B.&M.

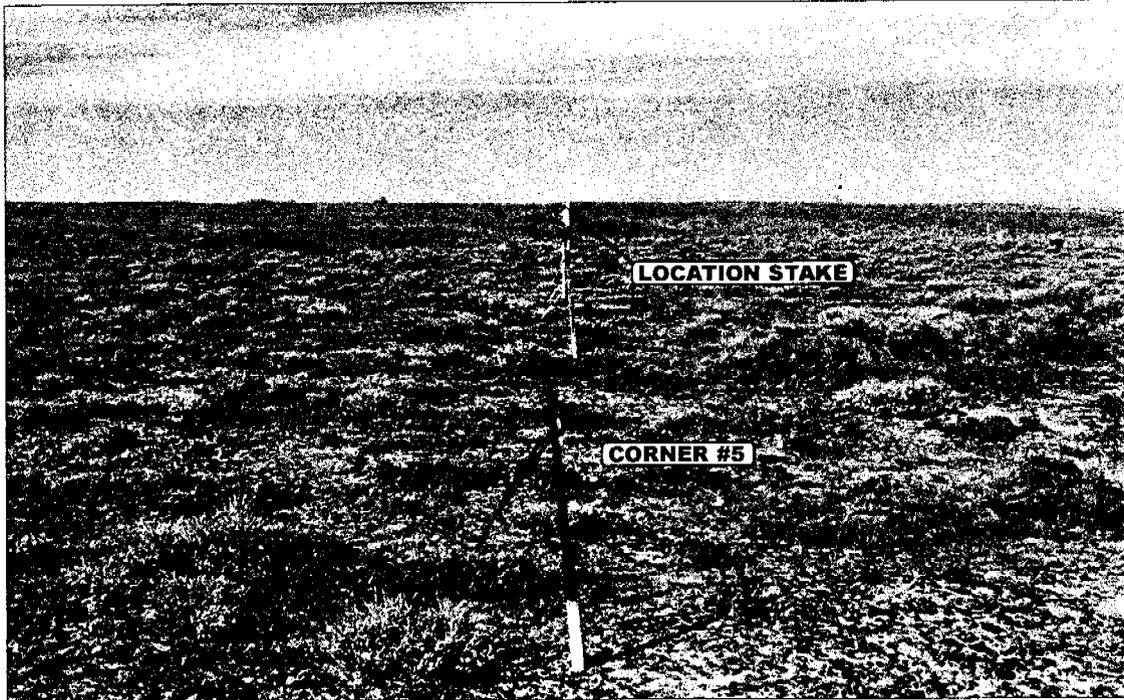


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY

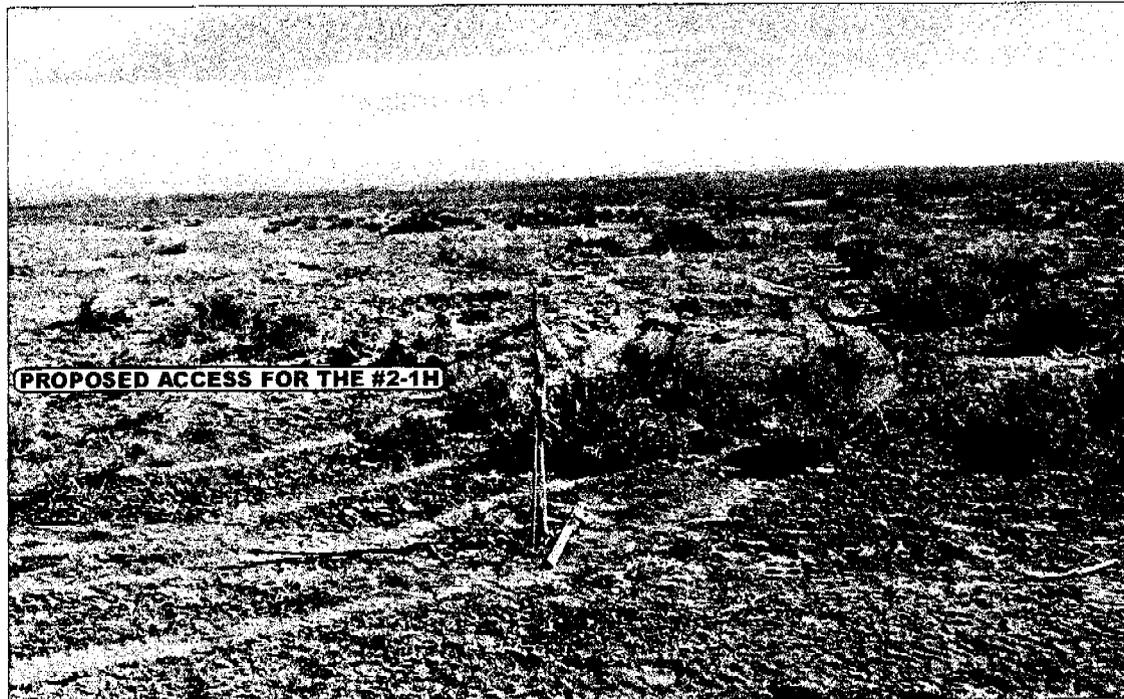


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS FOR THE #2-1H

CAMERA ANGLE: NORTHEASTERLY



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

LOCATION PHOTOS

04 | 08 | 05  
MONTH | DAY | YEAR

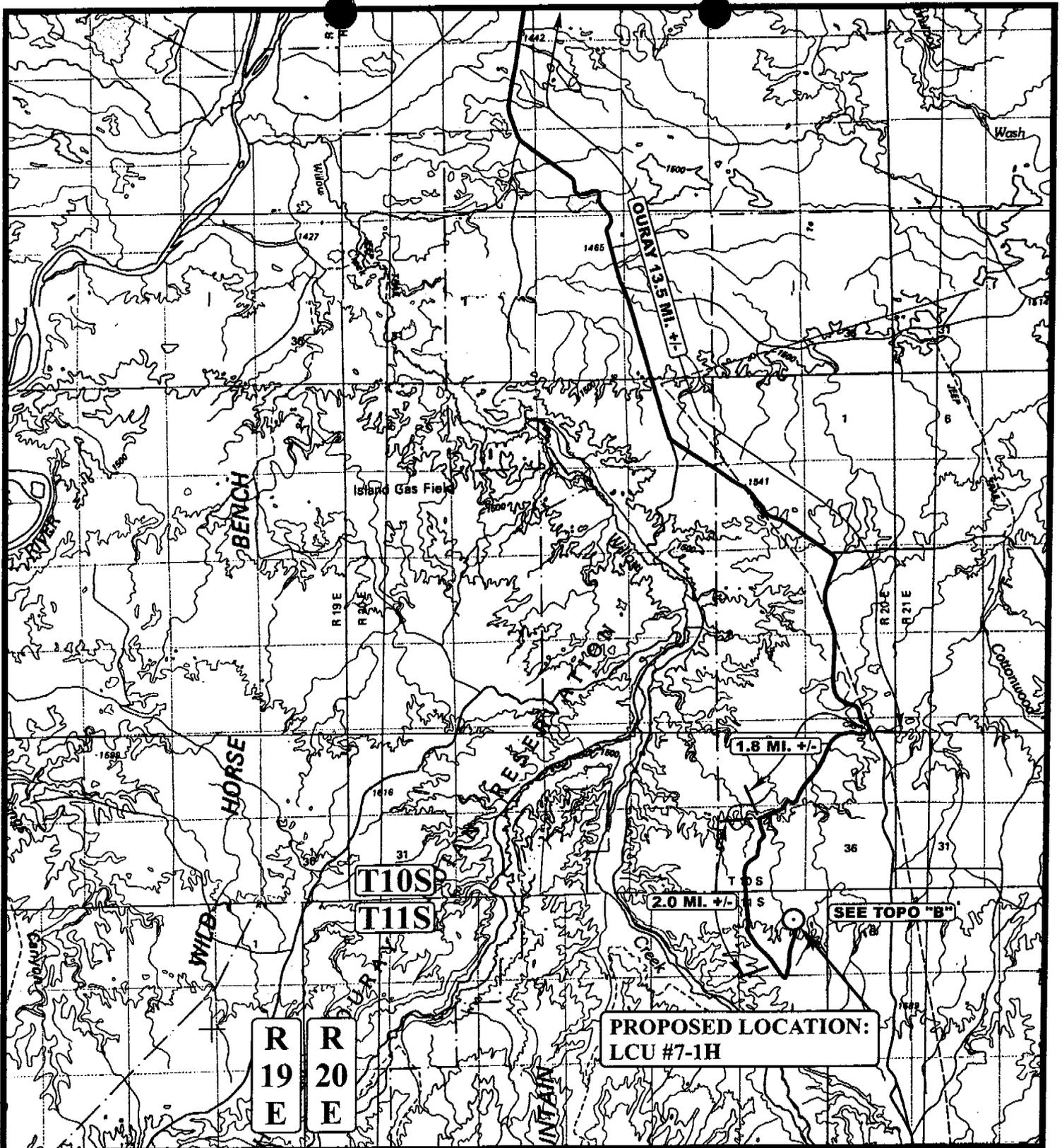
PHOTO

TAKEN BY: B.B.

DRAWN BY: C.P.

REVISED: 00-00-00

- Since 1964 -



**LEGEND:**

○ PROPOSED LOCATION



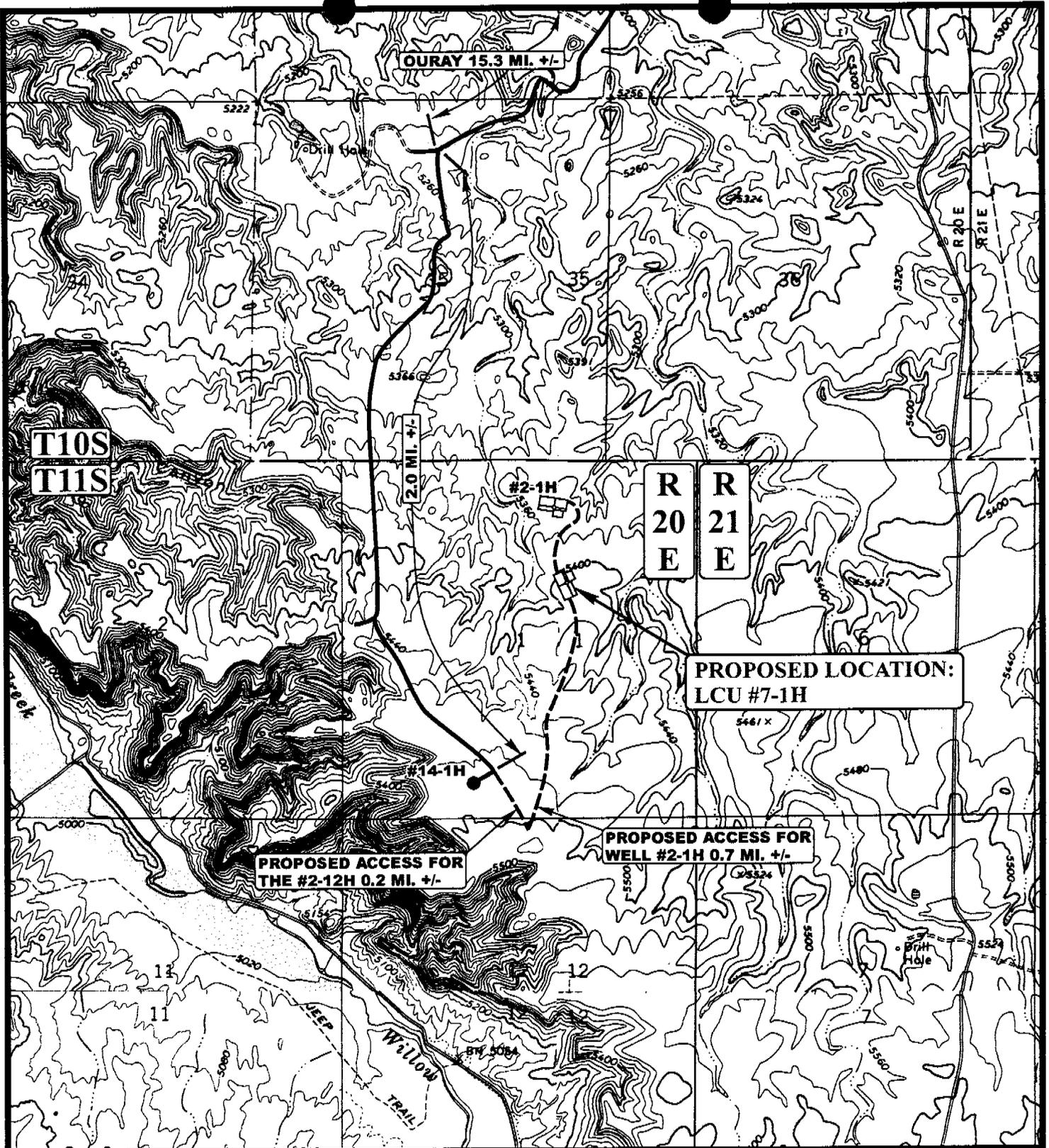
**DOMINION EXPLR. & PROD., INC.**

LCU #7-1H  
 SECTION 1, T11S, R20E, S.L.B.&M.  
 1906' FNL 1790' FEL

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

**TOPOGRAPHIC** 04 08 05  
**MAP** MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: C.P. REVISED: 00-00-00

**A**  
**TOPO**



**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

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

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

LCU #7-1H  
 SECTION 1, T11S, R20E, S.L.B.&M.  
 1906' FNL 1790' FEL



TOPOGRAPHIC	04	08	05	<b>B</b> TOPO
MAP	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.P.		REVISED: 00-00-00	



**PROPOSED LOCATION:  
LCU #7-1H**

**LEGEND:**

- |                   |                         |
|-------------------|-------------------------|
| ∅ DISPOSAL WELLS  | ∅ WATER WELLS           |
| ● PRODUCING WELLS | ● ABANDONED WELLS       |
| ● SHUT IN WELLS   | ● TEMPORARILY ABANDONED |

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

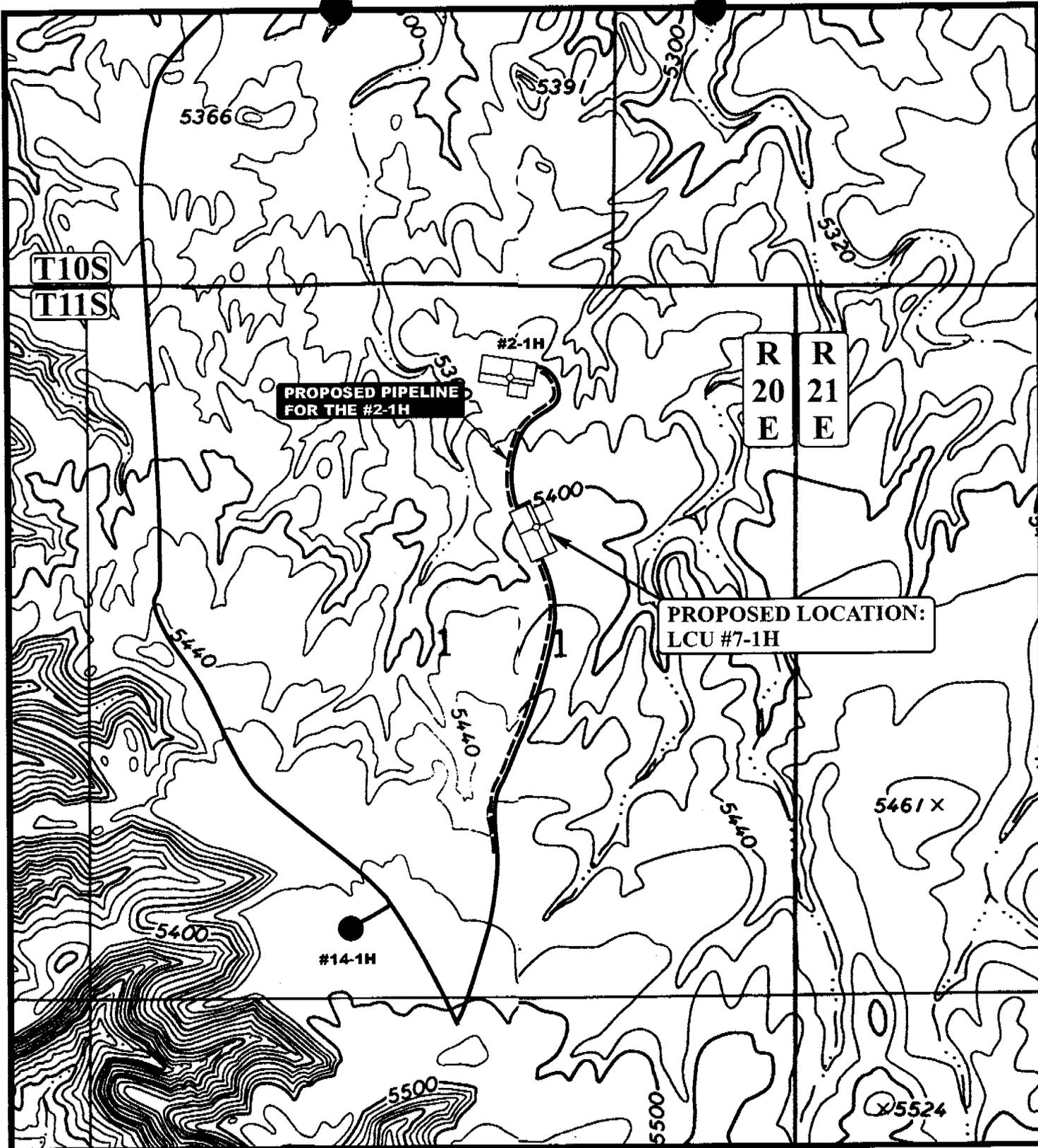
**LCU #7-1H  
SECTION 1, T11S, R20E, S.L.B.&M.  
1906' FNL 1790' FEL**

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



**TOPOGRAPHIC** 04 08 05  
**MAP** MONTH DAY YEAR  
SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**LEGEND:**

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



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

LCU #7-1H  
SECTION 1, T11S, R20E, S.L.B.&M.  
1906' FNL 1790' FEL



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

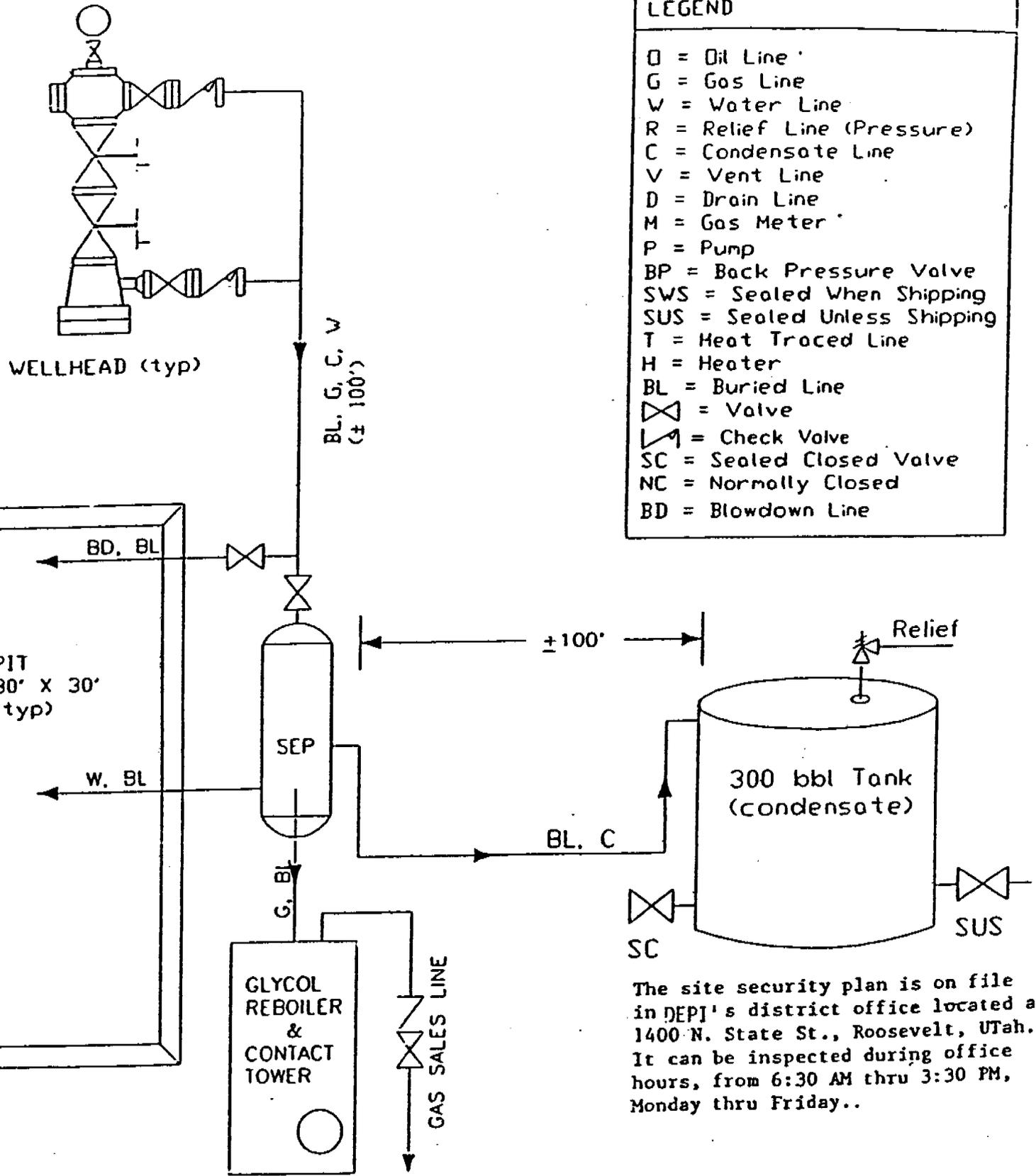
TOPOGRAPHIC MAP 04 08 05  
MONTH DAY YEAR  
SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00



CONFIDENTIAL

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..

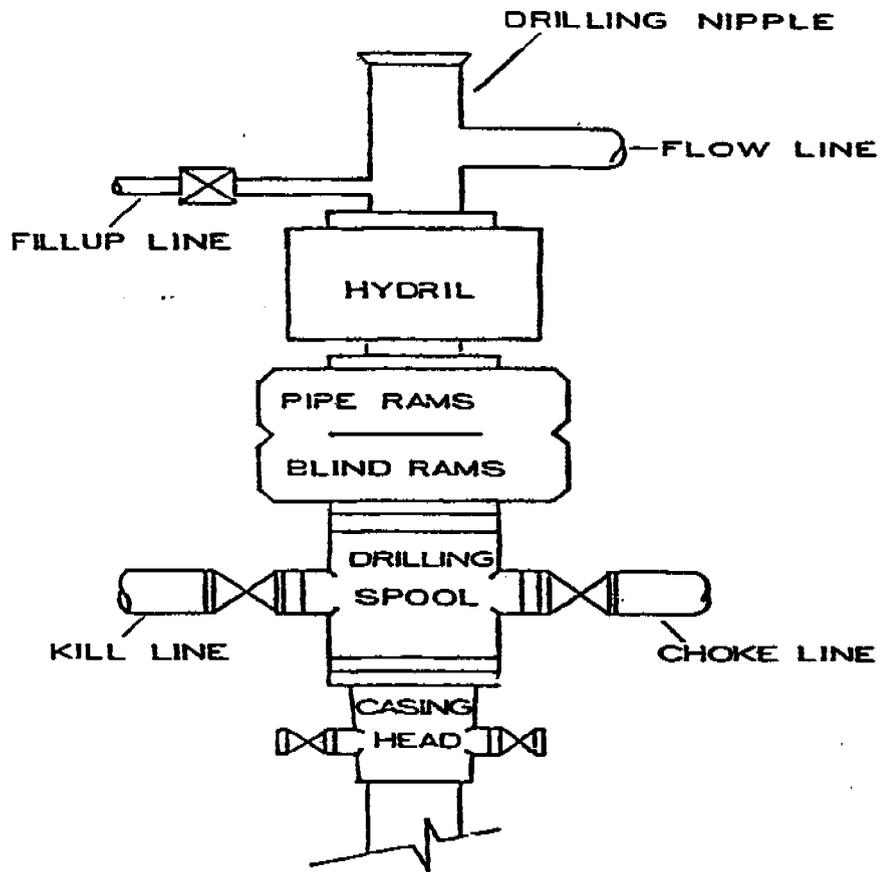
DOMINION EXPLORATION & PRODUCTION, INC.

not to scale

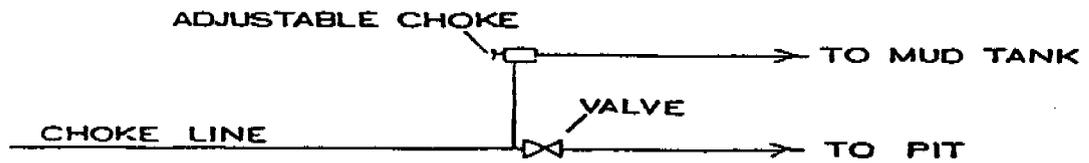
date: / /

TYPICAL FLOW DIAGRAM

## BOP STACK



## CHOKER MANIFOLD



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 06/29/2005

API NO. ASSIGNED: 43-047-36803
--------------------------------

WELL NAME: LCU 7-1H  
 OPERATOR: DOMINION EXPL & PROD ( N1095 )  
 CONTACT: DON HAMILTON

PHONE NUMBER: 435-650-1886

PROPOSED LOCATION:

SWNE 01 110S 200E  
 SURFACE: 1906 FNL 1790 FEL  
 BOTTOM: 1906 FNL 1790 FEL  
 UINTAH  
 UNDESIGNATED ( 2 )

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

LEASE TYPE: 1 - Federal  
 LEASE NUMBER: UTU-76264  
 SURFACE OWNER: 1 - Federal  
 PROPOSED FORMATION: MVRD  
 COALBED METHANE WELL? NO

LATITUDE: 39.89143  
 LONGITUDE: -109.6240

RECEIVED AND/OR REVIEWED:

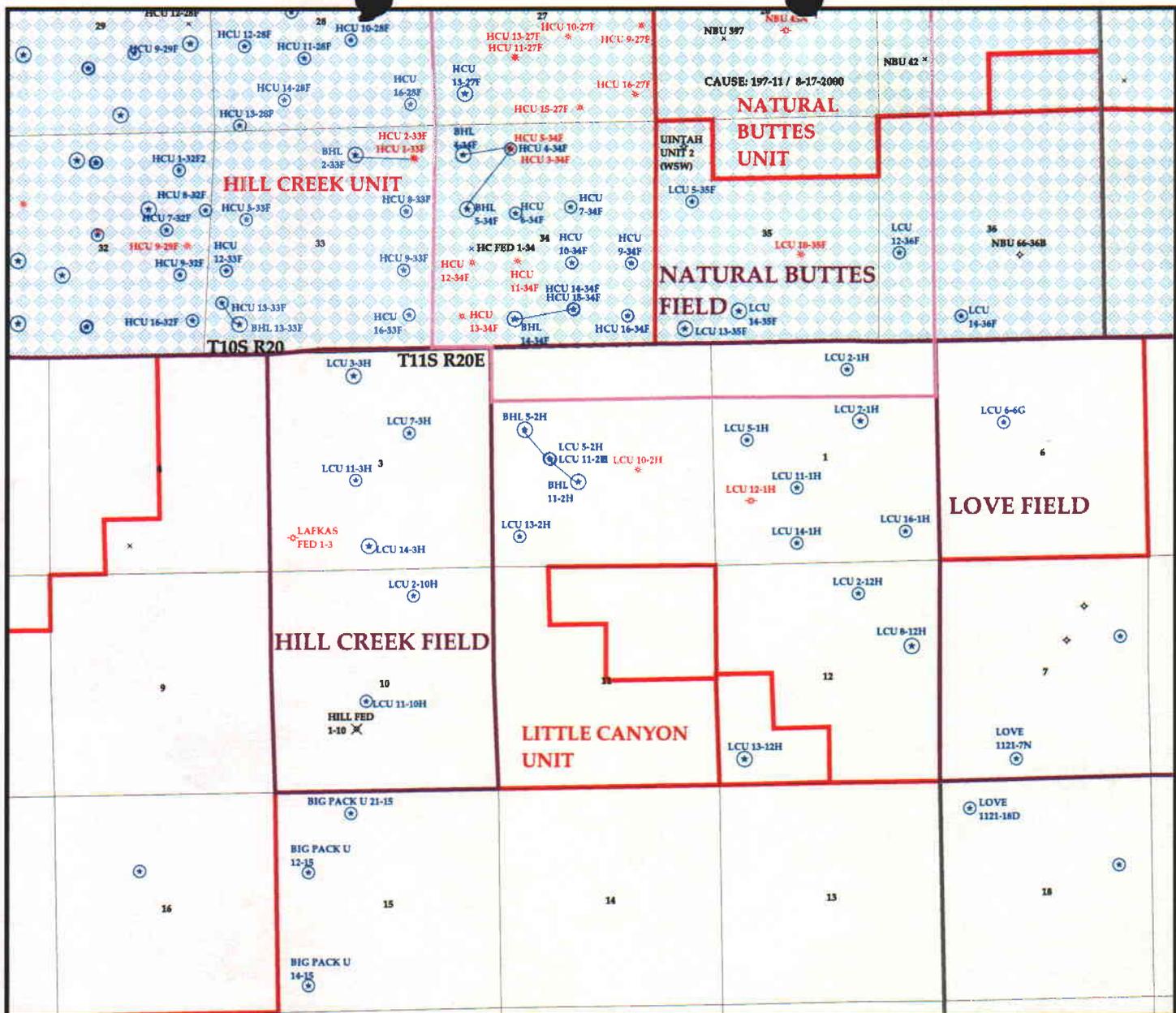
- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. 76S630500330 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-10447 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit LITTLE CANYON
- R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_
- R649-3-11. Directional Drill

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

STIPULATIONS: 1. Federal Approval C  
2. Spacing Unit



OPERATOR: DOMINION EXPL & PROD (N1095)

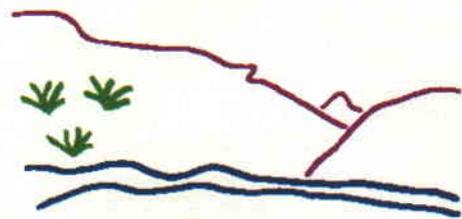
SEC: 1 T. 11S R. 20E

FIELD: UNDESIGNATED (002)

COUNTY: UINTAH

SPACING: R649-3-2 / GENERAL SITING

Wells	Units.shp	Fields.shp
⊕ GAS INJECTION	□ EXPLORATORY	□ ABANDONED
⊕ GAS STORAGE	□ GAS STORAGE	□ ACTIVE
× LOCATION ABANDONED	□ NF PP OIL	□ COMBINED
⊕ NEW LOCATION	□ NF SECONDARY	□ INACTIVE
⊕ PLUGGED & ABANDONED	□ PENDING	□ PROPOSED
* PRODUCING GAS	□ PI OIL	□ STORAGE
● PRODUCING OIL	□ PP GAS	□ TERMINATED
⊕ SHUT-IN GAS	□ PP GEOTHERML	
⊕ SHUT-IN OIL	□ PP OIL	
× TEMP. ABANDONED	□ SECONDARY	
○ TEST WELL	□ TERMINATED	
▲ WATER INJECTION		
⊕ WATER SUPPLY		
⊕ WATER DISPOSAL		



Utah Oil Gas and Mining



PREPARED BY: DIANA WHITNEY  
DATE: 30-JUNE-2005

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

July 7, 2005

Memorandum

To: Assistant District Manager Minerals, Vernal District  
From: Michael Coulthard, Petroleum Engineer  
Subject: 2005 Plan of Development Little Canyon Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2005 within the Little Canyon Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ MesaVerde)		
43-047-36803	LCU 7-1H Sec 1 T11S R20E 1906 FNL 1790 FEL	
43-047-36804	LCU 3-3H Sec 3 T11S R20E 0600 FNL 2000 FWL	
43-047-36805	LCU 14-3H Sec 3 T11S R20E 0519 FSL 2290 FWL	
43-047-36807	LCU 8-12H Sec 12 T11S R20E 2049 FNL 0643 FEL	
43-047-36808	LCU 13-12H Sec 12 T11S R20E 0581 FSL 0600 FWL	
43-047-36811	LCU 14-35F Sec 35 T10S R20E 0756 FSL 1962 FWL	
43-047-36812	LCU 13-35F Sec 35 T10S R20E 0362 FSL 0679 FWL	
43-047-36806	LCU 15-9H Sec 9 T11S R20E 0895 FSL 2253 FEL	
43-047-36809	LCU 12-16H Sec 16 T11S R20E 1747 FSL 0947 FWL	
43-047-36813	LCU 12-6G Sec 6 T11S R21E 2056 FSL 0603 FWL	

The LCU 13-12H, 43-047-36808, is located on Tract 18 of the Little Canyon Unit which is currently considered uncommitted and is not subject to the Little Canyon Unit.

The LCU 12-6G, 43-047-36813, is located on Tract 13 of the Little Canyon Unit. This tract is currently unleased federal acreage pending lease issuance.

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

/s/ Michael L. Coulthard



**State of Utah**

**Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

July 11, 2005

Dominion Exploration & Production, Inc.  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

Re: Little Canyon Unit 7-1H Well, 1906' FNL, 1790' FEL, SW NE, Sec. 1,  
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 43-047-36803.

Sincerely,

Gil Hunt  
Acting Associate Director

pab  
Enclosures

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



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE  
(Other instructions on reverse side)  
JUN 30 2005

Form approved.  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. LEASE DESIGNATION AND SERIAL NO.  
**UTU-76264**

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

7. UNIT AGREEMENT NAME  
**Little Canyon Unit**

8. FARM OR LEASE NAME, WELL NO.  
**LCU 7-1H**

9. API WELL NO.  
**43-047-36803**

10. FIELD AND POOL, OR WILDCAT  
**Natural Buttes**

11. SEC., T., R., M., OR BLK.  
A  
**Section 1,  
T11S, R20E, SLB&M**

12. COUNTY OR PARISH  
**Uintah**

13. STATE  
**Utah**

1a. TYPE OF WORK  
**DRILL**  **DEEPEN**

b. TYPE OF WELL  
OIL WELL  GAS WELL  OTHER   
SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
**Dominion Exploration & Production, Inc.**

3. ADDRESS AND TELEPHONE NO.  
**14000 Quail Springs Parkway, Suite 600, Oklahoma City, OK 73134, 405-749-5263**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)\*  
At surface **1,906' FNL & 1,790' FEL, SW/4 NE/4,**  
At proposed prod. zone **1,906' FNL & 1,790' FEL, SW/4 NE/4,**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
**13.89 miles southeast of Ouray, Utah**

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
**735'**

16. NO. OF ACRES IN LEASE  
**640**

17. NO. OF ACRES ASSIGNED TO THIS WELL  
**40 acres**

18. DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
**1,100'**

19. PROPOSED DEPTH  
**8,950'**

20. ROTARY OR CABLE TOOLS  
**Rotary**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**5,410' GR**

22. APPROX. DATE WORK WILL START\*  
**November 15, 2005**

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8" J-55 ST&C	32#	2,000'	252 sks Lead, 219 sks, tail, 100 sks top out—see attached Drilling Plan
7-7/8"	5-1/2" Mav 80 LT&C	17#	8,950'	160 sks Lead, 435 sks Tail—see attached Drilling Plan

**Bond Information:**

Bond coverage is provided by Travelers Casualty and Surety Company of America, Bond #76S 63050 0330

**Other Information:**

Drilling Plan and Surface Use Plan are attached.  
Dominion requests that this complete application for permit to drill be held confidential.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED  
MAY 11 2006

ORIGINAL  
CONFIDENTIAL

DIV. OF OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED Don Hamilton Don Hamilton TITLE Agent for Dominion DATE June 24, 2005

(This space for Federal or State office use)  
PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
CONDITIONS OF APPROVAL, IF ANY:  
APPROVED BY [Signature] TITLE Assistant Field Manager Mineral Resources DATE 05/04/2006

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency or the

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED



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



170 South 500 East VERNAL, UT 84078 (435) 781-4400

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

Company: **Dominion Exploration & Production** Location: **SWNE, Sec 1, T11S, R20E**  
Well No: **LCU 7-1H** Lease No: **UTU-76264**  
API No: **43-047-36803** Agreement: **Little Canyon Unit**

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Petroleum Engineer:	Roger Hall	Office: 435-781-4470	
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Nathaniel West	Office: 435-781-4447	
Natural Resource Specialist:	Chris Carusona	Office: 435-781-4441	
Natural Resource Specialist:	Scott Ackerman	Office: 435-781-4437	
<b>After Hours Contact Number:</b>	<b>435-781-4513</b>	Fax: 435-781-4410	

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

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

**NOTIFICATION REQUIREMENTS**

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

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

1. Within 90 calendar days of the approval date for this Application for Permit to Drill (APD), the operator/lessee will submit to the Authorized Officer (AO), on Sundry Notice Form 3160-5, an Interim Surface Reclamation Plan for surface disturbance on well pads, access roads, and pipelines. At a minimum, this will include the Best Management Practice of the reshaping of the pad to the original contour to the extent possible; the respreading of the top soil up to the rig anchor points; and, reseeding the area using appropriate reclamation methods. The AO will provide written approval or concurrence within 30 calendar days of receipt.

2. The interim seed mix for reclamation would be:

Hy-Crest Crested Wheatgrass	<i>Agropyron cristatum</i>	4 lbs. /acre
Western wheat grass	<i>Agropyron smithii</i>	4 lbs. /acre
Needle and thread grass	<i>Stipa comata</i>	4 lbs. /acre

3. The lessee/operator is given notice that lands in the lease have been identified as containing crucial **pronghorn (antelope)** habitat. It is requested that the lessee/operator not initiate surface disturbing activities or drilling from May 15 through June 20. A survey may be conducted by a qualified biologist or a BLM representative during this timing period to determine if pronghorn are in the area.
4. If paleontologic materials are uncovered during construction, the operator shall immediately stop work that might further disturb such materials and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation will be necessary for the discovered paleontologic material.
5. Following well plugging and abandonment, the location, access roads, pipelines, and other facilities shall be reclaimed. All disturbed surfaces shall be reshaped to approximate the original contour; the top soil respread over the surface; and, the surface revegetated. The surface of approved staging areas where construction activities did not occur may require disking or ripping and reseeding.

### ***DOWNHOLE CONDITIONS OF APPROVAL***

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

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

1. Proposed production casing cementing volumes are inadequate and does not circulate cement to a high enough fill-up. Additional cement beyond the proposed levels indicated in the operators application will need to be pumped. The cement volumes pumped should include appropriate excess factors. For the cementing program of the production casing string, the circulation or top of cement on the production string is to be at a minimum two hundred feet (200') above the formation named Wasatch. Per BLM estimates, the formation named Wasatch is estimated to be at depth feet 4360. Production casing string circulation or top of cement is to be at or above depth feet 4160 to formn~Wasatch.

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

1. There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
2. The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
3. **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
4. Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

No aggressive/fresh hard-banded drill pipe shall be used within casing.

5. All shows of fresh water and minerals shall be reported and protected. A sample shall be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
6. No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office shall be obtained and notification given before resumption of operations.
7. Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

Any change in the program shall be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) shall be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.

In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

8. Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

A cement bond log (CBL) will be run from the production casing shoe to the surface casing shoe and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

**Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

9. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease shall have prior written approval from the BLM, Vernal Field Office.

All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.

10. Oil and gas meters shall be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
11. A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
12. This APD is approved subject to the requirement that, should the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
- a. Operator name, address, and telephone number.
  - b. Well name and number.
  - c. Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - d. Date well was placed in a producing status (date of first production for which royalty will be paid).
  - e. The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - f. The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - g. Unit agreement and / or participating area name and number, if applicable.
  - h. Communitization agreement number, if applicable.

13. Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.
14. All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production
15. Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
16. Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

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

*SUBMIT IN TRIPLICATE - Other instructions on reverse side*

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
**DOMINION EXPLORATION & PRODUCTION, INC.**

3a. Address                      Suite 600  
**14000 QUAIL SPGS PKWY, OKLA CITY, OK 73134**

3b. Phone No. (include area code)  
**405-749-1300**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
  
**1906' FNL & 1790' FEL, (SW NE) Sec. 1-11S-20E**

5. Lease Serial No.  
**UTU - 76264**

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
**LCU 7-1H**

9. API Well No.  
**43-047-36803**

10. Field and Pool, or Exploratory Area  
**Natural Buttes**

11. County or Parish, State  
**Uintah**

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal
			<input type="checkbox"/> Water Shut-Off
			<input type="checkbox"/> Well Integrity
			<input checked="" type="checkbox"/> Other
			<b>APD Extension</b>

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

The state APD for this well expires July 11, 2006. Dominion is hereby requesting a one year extension.

COPY SENT TO OPERATOR

Date: 8-21-06  
 Initials: CHD

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)                      **Carla Christian**

Signature                      *Carla Christian*

Title                      **Sr. Regulatory Specialist**

Date                      **6/19/2006**

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

Approved by                      *Bradley G. Hill*

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title                      **BRADLEY G. HILL**

Office                      **ENVIRONMENTAL MANAGER**

Date                      **06-29-06**

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

**RECEIVED**

**JUN 27 2006**

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

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

**API:** 43-047-36803  
**Well Name:** LCU 7-1H  
**Location:** Section 1-11S-20E, 1906' FNL & 1790' FEL  
**Company Permit Issued to:** Dominion Exploration & Production, Inc.  
**Date Original Permit Issued:** 7/11/2005

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

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

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

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

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

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

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

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

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

Carla Kristian  
Signature

6/20/2006  
Date

**Title:** Sr. Regulatory Specialist

**Representing:** Dominion Exploration & Production, Inc.

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JUN 27 2006

DIV. OF OIL, GAS & MINING

**DIVISION OF OIL, GAS AND MINING**

**SPUDDING INFORMATION**

Name of Company: DOMINION EXPL & PROD INC

Well Name: LCU 7-1H

Api No: 43-047-36803 Lease Type: FEDERAL

Section 01 Township 11S Range 20E County UINTAH

Drilling Contractor BILL JR'S RIG # 6

**SPUDDED:**

Date 06/30/06

Time 12:30 AM

How DRY

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

Reported by PAT WISENER

Telephone # (435) 828-1455

Date 07/03/2006 Signed CHD

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

FORM 6

**ENTITY ACTION FORM**

Operator: Dominion Exploration & Production, Inc.  
Address: 14000 Quail Springs Parkway, Suite 600  
city Oklahoma City  
state Ok zip 73134

Operator Account Number: N 1095  
Phone Number: (405) 749-1300

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-36803	LCU 7-1H		SWNE	1	11S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	15491	6/30/2006			7/13/06	
Comments: <i>MURS</i>			<b>CONFIDENTIAL</b>				

**Well 2**

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

**Well 3**

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

**ACTION CODES:**

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

Carla Christian

Name (Please Print)

*Carla Christian*

Signature

Sr. Regulatory Specialist

7/5/2006

Title

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**JUL 10 2006**

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Pages : 2 (including Cover)

Subject : LCU 7-1H *T11S R20E S01 43-047-36803*

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**AUG 03 2006**

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



## WELL CHRONOLOGY REPORT

**WELL NAME : LCU 7-1H**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602660

API # : 43-047-37286

PLAN DEPTH : 8,950 SPUD DATE : 06/30/06

DHC : \$594,000

CWC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$192,060.00

EVENT CC : \$0.00

EVENT TC : \$192,060.00

WELL TOTL COST : \$202,948

REPORT DATE: 07/01/06

MD : 2,250

TVD : 2,250

DAYS :

MW :

VISC :

DAILY : DC : \$192,060.00

CC : \$0.00

TC : \$192,060.00

CUM : DC : \$192,060.00

CC : \$0.00

TC : \$192,060.00

DAILY DETAILS : MIRU BILL JRS #6. SPUD WELL @ 12:30 AM ON 6-30-06. DRILL 2250' OF 12.25" HOLE. RUN 51 JT'S 8.625", J-55, 32# CSGN. SET @ 2218'. CEMENT W/ 250 SKS LEAD MIXED @ 11.0 PPG & 3.82 YLD. THEN 250 SKS TAILMIXED @ 15.8 PPG & 1.15 YLD. THEN 150 SKS TAIL MIXED & PUMPED THRU 200' OF 1INCH @ 15.8 PPG & 1.15 YLD. W/ 20 BBLs CEMENT TO PIT.

**FACSIMILE COVER PAGE**

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AUG 09 2006  
DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

**WELL NAME : LCU 7-1H**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602660

API # : 43-047-~~47206~~ 36803

PLAN DEPTH : 8,950 SPUD DATE : 06/30/06

DHC : \$594,000

CVC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$192,060.00

EVENT CC : \$0.00

EVENT TC : \$192,060.00

WELL TOTL COST : \$202,948

REPORT DATE: 07/01/06

MD : 2,250

TVD : 2,250

DAYS :

MW :

VISC :

DAILY : DC : \$192,060.00

CC : \$0.00

TC : \$192,060.00

CUM : DC : \$192,060.00

CC : \$0.00

TC : \$192,060.00

DAILY DETAILS : MIRU BILL JRS #6. SPUD WELL @ 12:30 AM ON 6-30-06. DRILL 2250' OF 12.25" HOLE. RUN 51 JT'S 8.625", J-55, 32# CSGN. SET @ 2218'. CEMENT W/ 250 SKS LEAD MIXED @ 11.0 PPG & 3.82 YLD. THEN 250 SKS TAILMIXED @ 15.8 PPG & 1.15 YLD. THEN 150 SKS TAIL MIXED & PUMPED THRU 200' OF 1INCH @ 15.8 PPG & 1.15 YLD. W/ 20 BBLs CEMENT TO PIT.

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AUG 16 2006

DIV. OF OIL, GAS & MINING



# WELL CHRONOLOGY REPORT

**WELL NAME : LCU 7-1H**

Event No: 1

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

VM % : 100.00 AFE # : 0602660

API # : 43-047-~~37286~~ <sup>36803</sup>

PLAN DEPTH : 8,950 SPUD DATE : 06/30/06

DHC : \$594,000

CVC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$439,300.00

EVENT CC : \$0.00

EVENT TC : \$439,300.00

WELL TOTL COST : \$450,188

REPORT DATE: 08/10/06 MD: 2,250 TVD: 2,250 DAYS: 1 MW: VISC:  
 DAILY: DC: \$18,920.00 CC: \$0.00 TC: \$18,920.00 CUM: DC: \$210,980.00 CC: \$0.00 TC: \$210,980.00  
 DAILY DETAILS: MOVE FROM LCU 8-12H TO LCU 7-1H WITH JONES TRUCKING TRUCKS RELEASED RIG 8-9-06 @ 17:30.

REPORT DATE: 08/11/06 MD: 2,250 TVD: 2,250 DAYS: 1 MW: VISC:  
 DAILY: DC: \$29,420.00 CC: \$0.00 TC: \$29,420.00 CUM: DC: \$240,400.00 CC: \$0.00 TC: \$240,400.00  
 DAILY DETAILS: MOVE FROM LCU 8-12H TO LCU 7-1H WITH JONES TRUCKING TRUCKS RELEASED 17:30

REPORT DATE: 08/12/06 MD: 2,250 TVD: 2,250 DAYS: 2 MW: 8.4 VISC: 26  
 DAILY: DC: \$31,420.00 CC: \$0.00 TC: \$31,420.00 CUM: DC: \$271,820.00 CC: \$0.00 TC: \$271,820.00  
 DAILY DETAILS: RIG UP [16 HOURS AFTER TRUCKS] REPLUMB IN #1 PUMP\*\*[RIG REPAIR]\*\* PRESSURE TEST PIPE, BLINDS, CHOKE LINE, KILL LINE UPPER AND LOWER KELLY, SAFETY VALVES AND CHOKE MANNIFOLD TO 3000PSI HIGH AND 250 LOW. TEST ANNULAR 1500PSI HIGH AND 250 LOW, CASING 1500

REPORT DATE: 08/13/06 MD: 3,002 TVD: 3,002 DAYS: 3 MW: 8.4 VISC: 26  
 DAILY: DC: \$31,340.00 CC: \$0.00 TC: \$31,340.00 CUM: DC: \$303,160.00 CC: \$0.00 TC: \$303,160.00  
 DAILY DETAILS: NIPPLE DOWN BOP [DRILLER DROPE UP] RETRIEVE WEAR RING NIPPLE UP BOP INSTALL WEAR RING CORRECTLY RIG REPAIR\*\* WORK ON DRAWWORKS TRANSMISSION SHIFTER PICK UP BHA @TAG CEMENT @ 2131 RIG REPAIR\*\*WORK ON PUMPS DRILL CEMENT AND FLOAT EQUIPMENT DRILLING FROM 2250 TO 2395 FORMATION INTEGRITY TEST, BOP DRILL SURVEY AT 2310=2 1/4' DRILLING FROM 2395 TO 3002

REPORT DATE: 08/14/06 MD: 4,988 TVD: 4,988 DAYS: 4 MW: 8.4 VISC: 26  
 DAILY: DC: \$32,940.00 CC: \$0.00 TC: \$32,940.00 CUM: DC: \$336,100.00 CC: \$0.00 TC: \$336,100.00  
 DAILY DETAILS: DRILLING FROM 3002 TO 3322 SURVEY @ 3236=2' DRILLING FROM 3322 TO 3451 RIG SERVICE, BOP DRILL PERSONEL TO STATIONS FUNC. P.RAMS 2MIN 45SEC DRILLING FROM 3451 TO 4217 SURVEY @ 4130=1 3/4' DRILLING FROM 4217 TO 4988

REPORT DATE: 08/15/06 MD: 6,390 TVD: 6,390 DAYS: 5 MW: 8.5 VISC: 26  
 DAILY: DC: \$71,435.00 CC: \$0.00 TC: \$71,435.00 CUM: DC: \$407,535.00 CC: \$0.00 TC: \$407,535.00  
 DAILY DETAILS: DRILLING FROM 4988 TO 5594 RIG SERVICE, BOP FUNC. P.RAMS DRILL PERSONEL TO STATIONS 2MIN 45SEC DRILLING FROM 5594 TO 6390

REPORT DATE: 08/16/06 MD: 7,317 TVD: 7,317 DAYS: 6 MW: 8.5 VISC: 26  
 DAILY: DC: \$31,765.00 CC: \$0.00 TC: \$31,765.00 CUM: DC: \$439,300.00 CC: \$0.00 TC: \$439,300.00  
 DAILY DETAILS: \*\*NOTE MUD LOGGERS UNIT GAS READING INCORRECT FOR 4 DAYS NO GOOD\*\* DRILLING FROM 6390 TO 6868 RIG SERV. BOP DRILL FUNC. P.RAMS PERSONEL TO STATIONS 2MIN 52SEC DRILLING FROM 6868 TO 7317

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**FACSIMILE COVER PAGE**

To : Utah Division of Oil, Gas & Mining

From : g

Sent : 8/23/2006 at 4:03:06 PM

Pages : 2 (including Cover)

Subject : LCU 7-1H *T11S R30E S-01*

*43-049-3680.3*

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AUG 23 2006

DIV. OF OIL, GAS & MINING



# WELL CHRONOLOGY REPORT

CONFIDENTIAL

**WELL NAME : LCU 7-1H**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602660

API # : 43-047-~~57286~~ 36803

PLAN DEPTH : 8,950 SPUD DATE : 06/30/06

DHC : \$594,000

CWC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$695,039.00

EVENT CC : \$0.00

EVENT TC : \$695,039.00

WELL TOTL COST : \$705,927

**REPORT DATE: 08/16/06** MD: 7,317 TVD: 7,317 DAYS: 6 MW: 8.5 VISC: 26  
 DAILY: DC: \$31,765.00 CC: \$0.00 TC: \$31,765.00 CUM: DC: \$439,300.00 CC: \$0.00 TC: \$439,300.00  
 DAILY DETAILS: \*\*NOTE MUD LOGGERS UNIT GAS READING INCORRECT FOR 4 DAYS NO GOOD\*\* DRILLING FROM 6390  
 TO 6868 RIG SERV. BOP DRILL FUNC. P.RAMS PERSONEL TO STATIONS 2MIN 52SEC DRILLING FROM 6868  
 TO 7317

**REPORT DATE: 08/17/06** MD: 7,955 TVD: 7,955 DAYS: 7 MW: 8.5 VISC: 26  
 DAILY: DC: \$29,145.00 CC: \$0.00 TC: \$29,145.00 CUM: DC: \$468,445.00 CC: \$0.00 TC: \$468,445.00  
 DAILY DETAILS: \*\*MUD LOGGERS GAS ON PASON STILL INCORRECT\*\* DRILLING FROM 7317 TO 7638 RIG SERVICE, B.O.P.  
 DRILL PERSONEL TO STATIONS FUNCTION PIPE RAMS 2MIN 45 SEC DRILLING FROM 7638 TO 7955

**REPORT DATE: 08/18/06** MD: 8,628 TVD: 8,628 DAYS: 8 MW: 9.3 VISC: 30  
 DAILY: DC: \$34,025.00 CC: \$0.00 TC: \$34,025.00 CUM: DC: \$502,470.00 CC: \$0.00 TC: \$502,470.00  
 DAILY DETAILS: \*\*MUD LOGGERS GAS ON PASON STILL INCORRECT\*\* DRILLING FROM 7955 TO 8212 RIG SERVICE, B.O.P.  
 DRILL PERSONEL TO STATIONS FUNCTION PIPE RAMS 2MIN 25 SEC DRILLING FROM 8212 TO 8628

**REPORT DATE: 08/19/06** MD: 9,044 TVD: 9,044 DAYS: 9 MW: 9.3 VISC: 42  
 DAILY: DC: \$29,145.00 CC: \$0.00 TC: \$29,145.00 CUM: DC: \$531,615.00 CC: \$0.00 TC: \$531,615.00  
 DAILY DETAILS: DRILLING FROM 8628 TO 8819 RIG SERVICE, B.O.P. DRILL PERSONEL TO STATIONS, FUNCTION PIPE RAMS  
 1 MIN. 52 SEC. DRILLING FROM 8819 TO 9000 CIRCULATE BOTTOMS UP {SHOW FROM 8997, CONTACT TIM  
 JENSEN} DRILLING FROM 9000 TO 9044

**REPORT DATE: 08/20/06** MD: 9,100 TVD: 9,100 DAYS: 10 MW: 9.5 VISC: 34  
 DAILY: DC: \$28,480.00 CC: \$0.00 TC: \$28,480.00 CUM: DC: \$560,095.00 CC: \$0.00 TC: \$560,095.00  
 DAILY DETAILS: DRILLING FROM 9044 TO 9100 CIRCULATE, MIX AND PUMP DRY PIPE SLUG PULL OUT OF HOLE TO SHOE  
 RIG SERVICE & B.O.P. DRILL RUN IN HOLE CIRCULATE, MIX AND PUMP DRY PIPE SLUG PULL OUT OF HOLE  
 FOR LOG

**REPORT DATE: 08/21/06** MD: 9,100 TVD: 9,100 DAYS: 11 MW: 9.3 VISC: 34  
 DAILY: DC: \$61,553.00 CC: \$0.00 TC: \$61,553.00 CUM: DC: \$621,648.00 CC: \$0.00 TC: \$621,648.00  
 DAILY DETAILS: PULL OUT OF HOLE FOR LOGS RIG UP SCHLUMBERGER, HELD PREJOB SAFETY MEETING RUN TRIPPLE  
 COMBO LOGGERS T.D. 9107 LOG UP TO 5470 TOOLS STUCK WORK WIRELINE RIG UP FISHERMAN HELD  
 PREJOB SAFETY MEETING CUT & STRIP OVER TOOLS [DAMAGED TOP SHEIVE AFTER 3 STANDS PULL  
 3STANDS BACK OUT RIG DOWN TO REPLACE SHEIVE] WAIT ON SHEIVE FROM SCHLUMBERGER RIG UP  
 AGAIN FOR CUT AND STRIP FISH OPERATION RUN IN HOLE [TIGHT WORKING EACH STAND] TO 2700

**REPORT DATE: 08/22/06** MD: 9,100 TVD: 9,100 DAYS: 12 MW: 9.3 VISC: 38  
 DAILY: DC: \$73,391.00 CC: \$0.00 TC: \$73,391.00 CUM: DC: \$695,039.00 CC: \$0.00 TC: \$695,039.00  
 DAILY DETAILS: CUT AND STRIP OVER, KELLY UP ON CIRCULATING SUB ATTEMPT TO CIRCULATE, WORK TIGHT HOLE WITH  
 DRILL STRING PIPE STUCK, KELLY BACK WORK WIRELINE WITH TRUCK, WORK WIRELINE WITH RIG, PULL  
 TOOLS UP FROM 5800 TO 2800, THEN FREE PIPE [TOOLS FELL FROM OVERSHOT] PULL OUT OF HOLE,  
 LAYDOWN FISHING TOOLS. FUNCTION BLIND RAMS INSPECT AND ADJUST DRAWTOOL BRAKES REAMING  
 2531 TO 3227 RUN IN HOLE REAM FROM 8096 TO 8111 CIRCULATE GAS OUT CONDITION C02  
 CONTAMINATED MUD

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AUG 23 2006

**FACSIMILE COVER PAGE**

**To :** Utah Division of Oil, Gas & Mining

**From :** g

**Sent :** 8/30/2006 at 4:43:32 PM

**Pages :** 3 (including Cover)

**Subject :** LCU 7-1H *T IIS R20E S-01 43-042-36803*

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DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

**WELL NAME : LCU 7-1H**

DISTRICT : WESTERN	FIELD : NATURAL BUTTES 630	Event No: 1
COUNTY & STATE : UINTAH	UT	LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E
WI % : 100.00 AFE # : 0602660	API # : 43-047-37286	CONTRACTOR :
DHC : \$594,000	CVC : \$646,205	PLAN DEPTH : 8,950 SPUD DATE : 06/30/06
EVENT DC : \$994,606.00	EVENT CC : \$57,013.00	FORMATION : WASATCH/MESAVERDE
	EVENT TC : \$1,051,619.00	WELL TOTL COST : \$1,062,507

<b>REPORT DATE:</b> 08/23/06	MD : 9,100	TVD : 9,100	DAYS : 13	MW : 9.5	VISC : 38
DAILY : DC : \$28,155.00	CC : \$0.00	TC : \$28,155.00	CUM : DC : \$723,194.00	CC : \$0.00	TC : \$723,194.00

DAILY DETAILS : RIG REPAIR WORK ON PUMPS [REQUESTED PUMP CHECK DURING RIG INSPECTED BUT FAILED TO TEST, SO WHEN NEEDED PUMP AND UNOPERATIONAL WE WERE DOWN TO REPAIR] CIRCULATE AND CONDITION MUD [ TO THICK TO OBTAIN VISCOCITY AND AIRATED WEIGHT] PULL OUT OF HOLE WITH BIT [TAG UP AT 8152] RUN IN HOLE WITH OVERSHOT TO 8117 CIRCULATE GAS OUT CHASE FISH TO 8919 WITH SINGLES PULL OUT OF HOLE [SLOW AND CAREFULL & CHAIN OUT]

<b>REPORT DATE:</b> 08/24/06	MD : 9,100	TVD : 9,100	DAYS : 14	MW : 9.5	VISC : 43
DAILY : DC : \$55,639.00	CC : \$0.00	TC : \$55,639.00	CUM : DC : \$778,833.00	CC : \$0.00	TC : \$778,833.00

DAILY DETAILS : PULL OUT OF HOLE WITH FISH LAY DOWN LOG TOOLS PREJOB SAFETY MEETING, PULL WEAR RING, RUN IN HOLE TO SHOE CUT AND SLIP 120' DRILLING LINE RUN IN HOLE TO 9024 REAM 9024 TO 9100 CIRCULATE GAS OUT AND CONDITION MUD RIG UP WEATHERFORD LAYDOWN MACHINE LAYDOWN DRILL STRING

<b>REPORT DATE:</b> 08/25/06	MD : 9,100	TVD : 9,100	DAYS : 15	MW : 9.5	VISC : 43
DAILY : DC : \$215,773.00	CC : \$0.00	TC : \$215,773.00	CUM : DC : \$994,606.00	CC : \$0.00	TC : \$994,606.00

DAILY DETAILS : LAY DOWN DRILL STRING RIG UP CASERS HELD PREJOB SAFETY MEETING RUN 216 JOINTS OF 5 1/2" #17 MAV-80 SET AT 9092 CIRCULATE GAS OUT R/D WEATHERFORD R/U HALLIBURTON PREJOB SAFETY MEETING PUMP 50 BBL SUPER FLUSH, 39.5 BBL=71SX 11.0# LEAD, 238.4 BBL=792SX 13# TAIL, 210.5 BBL DISPLACEMENT, BUMP PLUG 500 PSI OVER PLUG AND FLOATS HELD [CALCULATED TOP OF CEMENT AT 3345] NIPPLE DOWN B.O.P. SET CASING SLIPS WTH 160K CUT OFF CASING COMPLETE NIPPLE DOWN, AND CLEAN MUD TANKS. RELEASE RIG @ 6:00 AM ON 8-25-06.

<b>REPORT DATE:</b> 08/27/06	MD : 9,100	TVD : 9,100	DAYS : 16	MW : 9.5	VISC : 43
DAILY : DC : \$0.00	CC : \$17,413.00	TC : \$17,413.00	CUM : DC : \$994,606.00	CC : \$17,413.00	TC : \$1,012,019.00

DAILY DETAILS : MIRU SCHLUMBER WIRE LINE AND ACTION HOT OIL SERVICE. RUN CMT BOND LOG UNDER 1500# PRESSURE FROM W.L. PBD @ 9064' KB TO 2700' KB, FOUND CMT TOP @ 2950' KB. POOH W/ WIRE LINE, AND PRESSURE TESTED CSG TO 5000 PSI, HELD GOOD. RIH AND PERFORATED STAGE #1, SHUT WELL IN, RDMO WIRE LINE AND HOT OILIER. WAIT ON FRAC DATE.

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AUG 30 2006



# WELL CHRONOLOGY REPORT

CONFIDENTIAL

## WELL NAME : LCU 7-1H

DISTRICT : WESTERN	FIELD : NATURAL BUTTES 630	Event No: 1
COUNTY & STATE : UINTAH	UT	LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E
WI % : 100.00 AFE # : 0602660	API # : 43-047- <sup>36803</sup> 37286	CONTRACTOR :
DHC : \$594,000	CWC : \$646,205	PLAN DEPTH : 8,950 SPUD DATE : 06/30/06
EVENT DC : \$994,606.00	EVENT CC : \$57,013.00	FORMATION : WASATCH/MESAVERDE
	EVENT TC : \$1,051,619.00	WELL TOTL COST : \$1,062,507

REPORT DATE: 08/30/06	MD : 9,100	TVD : 9,100	DAYS : 17	MW : 9.5	VISC : 43
DAILY : DC : \$0.00	CC : \$39,600.00	TC : \$39,600.00	CUM : DC : \$994,606.00	CC : \$57,013.00	TC : \$1,051,619.00

DAILY DETAILS : 08-29-06 LCU 7-1H. MIRU SCHLUMBERGER frac equipment, tested lines to 7000 psi. Held safety meeting with all personnel. Quality control on gel & breaker systems with on-site lab was verified. Frac'd Mesa Verde Interval # 1, 9002-05', 6 spf, 9020-28', 4 spf, 52 holes, with 44,275# 20/40 PR6000 sand. Pumped frac at an average rate of 34.6 bpm, using 271.7 mscf of N2 and 650 bbls of fluid. Average surface treating pressure was 4472 psi with sand concentrations stair stepping from 1.0 ppg to 4.0 ppg.

5326 gallons Pad YF120ST/N2 gel.  
2824 gallons YF120ST/N2 pumped @ 1.0 ppg sand concentration.  
3521 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.

3524 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.  
2818 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

9267 gallons WF110 slick water flush.

Total frac fluid pumped 650 bbls. N2 was cut during flush. Ru wire line, RIH and set 8K frac plug @ 8920'. RIH and perforate interval #2 @ 8662-66', 8702-04', 8707-18', 8753-62', 8821-28', 2 spf, 71 holes. Fraced interval #2 w/ 92,808# 20/40 PR6000 sand. Pumped frac at an avg rate of 42.9 bpm, using 523.1 mscf of N2 and 975 bbls of fluid. Avg surface treating pressure was 4586 psi w/ sand concentrations stair stepping from 1.0 ppg to 4.0 ppg.

6289 gallons Pad YF120ST/N2 gel.  
4926 gallons YF120ST/N2 pumped @ 1.0 ppg sand concentration.  
6322 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.  
7726 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.  
6633 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.

8403 gallons WF110 slick water flush.

Total frac fluid pumped 975 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 8000', perforate interval # 3 @ 7736-39', 7761-76', 7886-90', 7916-26', 2 spf, 68 holes. Fraced interval #3 w/ 85,641# 20/40 Ottawa sand. Pumped frac at an avg rate of 41.8 bpm, using 310.2 mscf of N2 and 716 bbls of fluid. Avg surface treating pressure was 3839 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

4880 gallons Pad YF120ST/N2 gel.  
2847 gallons YF120ST/N2 pumped @ 2.0 ppg sand concentration.  
2823 gallons YF120ST/N2 pumped @ 3.0 ppg sand concentration.

2821 gallons YF120ST/N2 pumped @ 4.0 ppg sand concentration.  
3528 gallons YF120ST/N2 pumped @ 5.0 ppg sand concentration.

3725 gallons YF120ST/N2 pumped @ 6.0 ppg sand concentration.

7487 gallons WF110 slick water flush.

Total frac fluid pumped 716 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 7450', perforate interval # 4 @ 7174-91', 7217-22', 7224-29', 7249-64', 7295-7302', 2 spf, 103 holes. Fraced interval #4 w/ 103,855# 20/40 Ottawa sand. Pumped frac at an avg rate of 42.5 bpm, using 371.7 mscf of N2 and 828 bbls of fluid. Avg surface treating pressure was 3917 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

6979 gallons Pad YF115ST/N2 gel.  
3547 gallons pumped YF115ST/N2 @ 2.0 ppg sand concentration.  
3529 gallons pumped YF115ST/N2 @ 3.0 ppg sand concentration.  
3519 gallons pumped YF115ST/N2 @ 4.0 ppg sand concentration.  
4219 gallons pumped YF115ST/N2 @ 5.0 ppg sand concentration.

concentration.

3517 gallons pumped YF115ST/N2 @ 6.0 ppg sand concentration.

7349 gallons WF110 slick water flush.

Total frac fluid pumped 828 bbls. N2 was cut during flush. Shut well in overnight, prep to finish frac's in the morning.

# FACSIMILE COVER PAGE

To : Utah Division of Oil, Gas & Mining

From : g

Sent : 9/6/2006 at 2:06:06 PM

Pages : 4 (including Cover)

Subject : LCU 7-1H

*T 115 R 20E S-1 43-049-36803*

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DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

CONFIDENTIAL

**WELL NAME : LCU 7-1H**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UTAH

UT

CONTRACTOR :

WM % : 100.00 AFE # : 0602660

API # : 43-047-36803

PLAN DEPTH : 8,950

SPUD DATE : 06/30/06

DHC : \$594,000

CWC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$994,606.00

EVENT CC : \$341,813.00

EVENT TC : \$1,336,419.00

WELL TOTL COST : \$1,347,307

REPORT DATE: 08/30/06

MD : 9,100

TVD : 9,100

DAYS : 17

MW : 9.5

VISC : 43

DAILY : DC : \$0.00

CC : \$39,600.00

TC : \$39,600.00

CUM : DC : \$994,606.00

CC : \$57,013.00

TC : \$1,051,619.00

DAILY DETAILS: 08-29-06 LCU 7-1H. MIRU SCHLUMBERGER frac equipment, tested lines to 7000 psi. Held safety meeting with all personnel. Quality control on gel & breaker systems with on-site lab was verified. Frac'd Mesa Verde Interval # 1, 9002-05', 6 spf, 9020-28', 4 spf, 52 holes, with 44,275# 20/40 PR6000 sand. Pumped frac at an average rate of 34.6 bpm, using 271.7 mscf of N2 and 650 bbls of fluid. Average surface treating pressure was 4472 psi with sand concentrations stair stepping from 1.0 ppg to 4.0 ppg.

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concentration.

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SEP 06 2006



## WELL CHRONOLOGY REPORT

<b>WELL NAME : LCU 7-1H</b>			Event No: 1		
DISTRICT : WESTERN		FIELD : NATURAL BUTTES 630		LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E	
COUNTY & STATE : UINTAH			UT		
CONTRACTOR :					
WI % : 100.00	AFE # : 0602660	API # : 43-047-36803	PLAN DEPTH : 8,950	SPUD DATE : 06/30/06	
DHC : \$594,000	CWC : \$646,205	AFE TOTAL : \$1,240,205	FORMATION : WASATCH/MESAVERDE		
EVENT DC : \$994,606.00	EVENT CC : \$341,813.00	EVENT TC : \$1,336,419.00	WELL TOTL COST : \$1,347,307		

**REPORT DATE: 08/31/06**      MD: 9,100      TVD: 9,100      DAYS: 18      MW: 9.5      VISC: 43  
 DAILY: DC: \$0.00      CC: \$284,800.00      TC: \$284,800.00      CUM: DC: \$994,606.00      CC: \$341,813.00      TC: \$1,336,419.00

**DAILY DETAILS:** W/ SCHLUMBERGER already rigged up, RIH and set 5K frac plug @ 7020', perforate interval # 5 @ 6829-40', 6 spf, 67 holes. Fraced interval #5 w/ 46,683# 20/40 Ottawa sand. Pumped frac at an avg rate of 24.1 bpm, using 174.8 mscf of N2 and 482 bbls of fluid. Avg surface treating pressure was 2858 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

2855 gallons Pad YF115ST/N2 gel.

2131 gallons YF115ST/N2 pumped @ 2.0 ppg sand concentration.

2112 gallons YF115ST/N2 pumped @ 3.0 ppg sand concentration.

1411 gallons YF115ST/N2 pumped @ 4.0 ppg sand concentration.

1409 gallons YF115ST/N2 pumped @ 5.0 ppg sand concentration.

1927 gallons YF115ST/N2 pumped @ 6.0 ppg sand concentration.

6621 gallons WF110 slick water flush.

Total frac fluid pumped 482 bbls. N2 was cut during flush. RIH and set 5K frac plug @ 6450', perforate interval # 6 @ 6243-56', 4 spf, 53 holes. Fraced interval #6 w/ 30,639# 20/40 Ottawa sand. Pumped frac at an avg rate of 23.8 bpm, using 161.5 mscf of N2 and 345 bbls of fluid. Avg surface treating pressure was 3076 psi w/ sand concentrations stair stepping from 2.0 ppg to 6.0 ppg.

2799 gallons Pad YF115ST/N2 gel.

1782 gallons YF115ST/N2 pumped @ 2.0 ppg sand concentration.

2125 gallons YF115ST/N2 pumped @ 4.0 ppg sand concentration.

1983 gallons YF115ST/N2 pumped @ 6.0 ppg sand concentration.

4455 gallons WF110/N2 slick water flush.

Total frac fluid pumped 345 bbls. N2 was not cut during flush. Opened well to the pit on a 12/64 choke. Turned well over to production.

**REPORT DATE: 09/01/06**      MD: 9,100      TVD: 9,100      DAYS: 19      MW:      VISC:        
 DAILY: DC: \$0.00      CC: \$0.00      TC: \$0.00      CUM: DC: \$994,606.00      CC: \$341,813.00      TC: \$1,336,419.00

**DAILY DETAILS:** FLOW REPORT WELL FLOWING UP CSG TO PIT AFTER FRAC ON 12/64 CHOKE FCP 1300, RECOVERED 912 BBLS FRAC FLUID CHANGE TO 18/64 CHOKE & LEFT TO PIT.

**REPORT DATE: 09/02/06**      MD: 9,100      TVD: 9,100      DAYS: 20      MW:      VISC:        
 DAILY: DC: \$0.00      CC: \$0.00      TC: \$0.00      CUM: DC: \$994,606.00      CC: \$341,813.00      TC: \$1,336,419.00

**DAILY DETAILS:** FLOW REPORT WELL FLOWING UP CSG TO PIT ON 18/64 CHOKE FCP 914, RECOVERED 989 BBLS FRAC FLUID RU FLOW LINE TURN TO SALES.

**REPORT DATE: 09/03/06**      MD: 9,100      TVD: 9,100      DAYS: 21      MW:      VISC:        
 DAILY: DC: \$0.00      CC: \$0.00      TC: \$0.00      CUM: DC: \$994,606.00      CC: \$341,813.00      TC: \$1,336,419.00

**DAILY DETAILS:** FLOW REPORT WELL TO SALES 11 HRS. MADE 874 MCF, FCP 874, SLP 94, 0 OIL, 400 WTR. 20/64 CHOKE LEFT WELL SAME.

**REPORT DATE: 09/04/06**      MD: 9,100      TVD: 9,100      DAYS: 22      MW:      VISC:        
 DAILY: DC: \$0.00      CC: \$0.00      TC: \$0.00      CUM: DC: \$994,606.00      CC: \$341,813.00      TC: \$1,336,419.00

**DAILY DETAILS:** FLOW REPORT WELL TO SALES 24 HRS. MADE 1017 MCF, FCP 592, SLP 98, 15 OIL, 455 WTR. 20/64 CHOKE LEFT WELL SAME.

**RECEIVED**

**SEP 06 2006**



## WELL CHRONOLOGY REPORT

**WELL NAME : LCU 7-1H**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WM % : 100.00 AFE # : 0602660

API # : 43-047-36803

PLAN DEPTH : 8,950

SPUD DATE : 06/30/06

DHC : \$594,000

CWC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$994,606.00

EVENT CC : \$341,813.00

EVENT TC : \$1,336,419.00

WELL TOTL COST : \$1,347,307

**REPORT DATE: 09/05/06**

MD : 9,100

TVD : 9,100

DAYS : 23

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$994,606.00

CC : \$341,813.00

TC : \$1,336,419.00

 DAILY DETAILS : FLOW REPORT WELL TO SALES 24 HRS. MADE 1155 MCF, FCP 672, SLP 98, 11 OIL, 342 WTR. 20/64 CHOKE  
 LEFT WELL SAME.

**REPORT DATE: 09/06/06**

MD : 9,100

TVD : 9,100

DAYS : 24

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$994,606.00

CC : \$341,813.00

TC : \$1,336,419.00

 DAILY DETAILS : FLOW REPORT WELL TO SALES 24 HRS, MADE 1511 MCF, FCP 668, SLP 101, 13 OIL, 234 WTR. 20/64 CHOKE  
 LEFT WELL SAME.

 RECEIVED  
 SEP 06 2006

DIV. OF OIL, GAS &amp; MINING

# FACSIMILE COVER PAGE

To : Utah Division of Oil, Gas & Mining

From : g

Sent : 9/13/2006 at 3:02:46 PM

Pages : 2 (including Cover)

Subject : LCU 7-1H

*T 115 R 20E S-1 4.3 042-36803*

CONFIDENTIAL

RECEIVED

SEP 13 2006

DIV. OF OIL, GAS & MINING



## WELL CHRONOLOGY REPORT

CONFIDENTIAL

**WELL NAME : LCU 7-1H**

DISTRICT : WESTERN

FIELD : NATURAL BUTTES 630

Event No: 1

LOCATION : 1906' FNL 1790' FEL SEC 1 T 11S R 20E

COUNTY &amp; STATE : UINTAH

UT

CONTRACTOR :

WI % : 100.00 AFE # : 0602660

API # : 43-047-36803

PLAN DEPTH : 8,950

SPUD DATE : 06/30/06

DHC : \$594,000

CWC : \$646,205

AFE TOTAL : \$1,240,205

FORMATION : WASATCH/MESAVERDE

EVENT DC : \$994,606.00

EVENT CC : \$341,813.00

EVENT TC : \$1,336,419.00

WELL TOTL COST : \$1,458,683

REPORT DATE: 09/06/06

MD : 9,100

TVD : 9,100

DAYS : 24

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$994,606.00

CC : \$341,813.00

TC : \$1,336,419.00

DAILY DETAILS : FLOW REPORT WELL TO SALES 24 HRS, MADE 1511 MCF, FCP 668, SLP 101, 13 OIL, 234 WTR. 20/64 CHOKE  
LEFT WELL SAME.

REPORT DATE: 09/07/06

MD : 9,100

TVD : 9,100

DAYS : 25

MW :

VISC :

DAILY : DC : \$0.00

CC : \$0.00

TC : \$0.00

CUM : DC : \$994,606.00

CC : \$341,813.00

TC : \$1,336,419.00

DAILY DETAILS : FLOW REPORT WELL TO SALES 24 HRS. MADE 1594 MCF, FCP 631, SLP 101, 18 OIL, 164 WTR. 20/64 CHOKE  
LEFT WELL SAME FINAL REPORT.

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SEP 13 2006

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

FORM APPROVED  
OMB No. 1004-0135  
Expires: November 30, 2000

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

SEP 25 2006  
DIV. OF OIL, GAS

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

DOMINION EXPLORATION & PRODUCTION, INC.

3a. Address Suite 600  
14000 QUAIL SPGS PKWY, OKLA CITY, OK 73134

3b. Phone No. (include area code)  
405-749-1300

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

1906' FNL & 1790' FEL, (SW NE) Sec. 1-11S-20E

5. Lease Serial No.

UTU - 76264

6. If Indian, Allottee or Tribe Name

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

Little Canyon Unit

8. Well Name and No.

LCU 7-1H

9. API Well No.

43-047-36803

10. Field and Pool, or Exploratory Area

Natural Buttes

11. County or Parish, State

Uintah

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

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

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

8/24/06 ran 216 jts. 5 1/2", 17#, M-80, LT&C csg., set @ 9092'. Cemented lead w/71 sks Prem Plus "V", 11.6 ppg, 3.12 yld, tailed w/ 792 sks HLC "V", 13.0 ppg, 1.69 yld., clean tanks, released rig. 8/29/06 Perf and frac well. First sales 9/1/06.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

Carla Christian

Title Sr. Regulatory Specialist

Signature

*Carla Christian*

Date 9/18/2006

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

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

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

FORM 6

**ENTITY ACTION FORM**

Operator: Dominion Exploration & Production, Inc. Operator Account Number: N 1095  
 Address: 14000 Quail Springs Parkway, Suite 600  
city Oklahoma City  
state Ok zip 73134 Phone Number: (405) 749-1300

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
43-047-36803	LCU 7-1H		SWNE	1	11S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
C	15491	14619				11/1/2005	
Comments: <i>MURD = WSMVD</i>			<b>CONFIDENTIAL</b>			<i>10/2/06</i>	

**Well 2**

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

**Well 3**

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

**ACTION CODES:**

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

Carla Christian

Name (Please Print)

*Carla Christian*

Signature

Sr. Regulatory Specialist

9/28/2006

Title

Date

**RECEIVED**

**OCT . 2 2006**

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

**CONFIDENTIAL**

FORM APPROVED  
OMB NO. 1004-0137

Expires: November 30, 2000

5. Lease Serial No.

UTU-76264

1a. Type of Well  Oil Well  Gas Well  Dry  Other

b. Type of Completion:  New Well  Work Over  Deepen  Diff. Resvr.

Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

Little Canyon Unit

8. Lease Name and Well No.

LCU 7-1H

2. Name of Operator

Dominion Exploration & Production, Inc.

3. Address

14000 Quail Springs Parkway - Ste. 600 - Okla. City, OK 73134

3a. Phone No. (include area code)

405-749-1300

9. API Well No.

43-047-36803

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

At surface 1906' FNL & 1790' FEL, SW NE

At top prod. Interval reported below

At total depth

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NOV 22 2006

DEPT. OF OIL, GAS & MINING

10. Field and Pool, or Exploratory

Natural Buttes

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

1-11S-20E

12. County or Parish

Uintah

13. State

UT

14. Date Spudded

6/30/2006

15. Date T.D. Reached

8/23/2006

16. Date Completed

D&A  Ready to prod.

9/1/2006

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

5410' GL

18. Total Depth: MD 9100'  
TVD

19. Plug Back T.D.: MD 9064'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

Platform Express, Triple Combo, Gamma Ray  
Cement Bond Log

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

Was DST run?  No  Yes (Submit report)

Directional Survey?  No  Yes (Submit copy)

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

Hole Size	Size/Grade	WT. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Skis & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4"	8 5/8"	32#	Surface	2218'		650 Sx		Circ.	
7 7/8"	5 1/2"	17#	Surface	9092'		863 Sx		Est. TOC @ 2950'	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	8978'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)						
B)						
C)						
D)						
E)						
F)						
G)						

See Attachment for perf and Frac info.

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

Depth Interval	Amount and Type of Material

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
9/1/2006	11/13/2006	24	→	7	651	43			Flowing
Choke size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
48	101	474	→	7	651	43	1:93,000	Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

See instructions and spaces for additional data on reverse side)

28b Production - Interval C

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

28c Production - Interval D

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

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

Sold

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Description, Contents, etc.	Name	Top
					Meas. Depth
				Wasatch Tongue	3540'
				Uteland Limestone	3990'
				Wasatach	4156'
				Chapita Wells	4910'
				Uteland Buttes	6060'
				Mesaverde	6840'

32. Additional remarks (include plugging procedure)

33. Circle enclosed attachments:

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

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

Name (please print) Carla Christian Title Sr. Regulatory Specialist  
 Signature Carla Christian Date November 20, 2006

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

## LCU 7-1H Perforations & Frac's

**Interval #1** Mesaverde 9002 – 05  
9020 – 28 52 holes

Frac w/44,275# 20/40 PR 6000 sd., w/271.7 mscf of N2 and 650 bbls of YF12OST.

**Interval #2** Mesaverde 8662 – 66  
8702 – 04  
8707 – 18  
8753 – 62  
8821 – 28 71 holes

Frac w/92,808# 20/40 PR 6000 sd., w/523.1 mscf of N2 and 975 bbls of YF12OST

**Interval #3** Mesaverde 7736 – 39  
7761 – 76  
7886 – 90  
7916 - 26 68 holes

Frac w/85,641# 20/40 Ottawa sd., w/310.2 mscf of N2 and 716 bbls of YF12OST

**Interval #4** Mesaverde 7174 – 91  
7217 – 22  
7224 – 29  
7249 – 64  
7295 - 02 103 holes

Frac w/103,855# 20/40 Ottawa sd., w/371.7 mscf of N2 and 828 bbls of YF115ST

**Interval #5** Wasatch 6829 – 40 67 holes

Frac w/46,683# 20/40 Ottawa sd., w/174.8 mscf of N2 and 482 bbls of YF115ST

**Interval #6** Wasatch 6243 – 56 53 holes

Frac w/30,639# 20/40 Ottawa sd., w/161.5 mscf of N2 and 345 bbls of YF115ST

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ
2. CDW

**X - Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

7/1/2007

<b>FROM:</b> (Old Operator): N1095-Dominion Exploration & Production, Inc 14000 Quail Springs Parkway, Suite 600 Oklahoma City, OK 73134  Phone: 1 (405) 749-1300	<b>TO:</b> ( New Operator): N2615-XTO Energy Inc 810 Houston St Fort Worth, TX 76102  Phone: 1 (817) 870-2800
--	--

CA No.		Unit:		LITTLE CANYON				
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
SEE ATTACHED LIST								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 8/6/2007
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 8/6/2007
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 8/6/2007
- Is the new operator registered in the State of Utah: Business Number: 5655506-0143
- If **NO**, the operator was contacted on: \_\_\_\_\_
- (R649-9-2)Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete on: n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM BIA
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: \_\_\_\_\_
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: \_\_\_\_\_
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: \_\_\_\_\_

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 9/27/2007
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 9/27/2007
- Bond information entered in RBDMS on: 9/27/2007
- Fee/State wells attached to bond in RBDMS on: 9/27/2007
- Injection Projects to new operator in RBDMS on: 9/27/2007
- Receipt of Acceptance of Drilling Procedures for APD/New on: 9/27/2007

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000138
  - Indian well(s) covered by Bond Number: n/a
  - (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 104312762
  - The **FORMER** operator has requested a release of liability from their bond on: 1/23/2008
- The Division sent response by letter on: \_\_\_\_\_

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: \_\_\_\_\_

**COMMENTS:**

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER:
2. NAME OF OPERATOR: XTO Energy Inc. <i>N2615</i>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 810 Houston Street CITY Fort Worth STATE TX ZIP 76102		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: SEE ATTACHED		8. WELL NAME and NUMBER: SEE ATTACHED
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER: SEE ATTACHED
COUNTY: Uintah		10. FIELD AND POOL, OR WILDCAT: Natural Buttes
STATE: UTAH		

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

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

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

Effective July 1, 2007, XTO Energy Inc. has purchased the wells listed on the attachment from:

Dominion Exploration & Production, Inc. *N1095*  
14000 Quail Springs Parkway, Suite 600  
Oklahoma City, OK 73134

*James D. Abercrombie* (405) 749-1300  
James D. Abercrombie  
Sr. Vice President, General Manager - Western Business Unit

Please be advised that XTO Energy Inc. is considered to be the operator on the attached list and is responsible under the terms and conditions of the lease for the operations conducted upon the lease lands. Bond coverage is provided by Nationwide BLM Bond #104312750 and Department of Natural Resources Bond #104312762.

NAME (PLEASE PRINT) <u>Edwin S. Ryan, Jr.</u>	TITLE <u>Sr. Vice President - Land Administration</u>
SIGNATURE <i>Edwin S. Ryan, Jr.</i>	DATE <u>7/31/2007</u>

(This space for State use only)

**APPROVED** 91271107  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

**RECEIVED**  
**AUG 06 2007**  
DIV. OF OIL, GAS & MINING

(5/2000)

7

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

LITTLE CANYON UNIT

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304731026	HILL FEDERAL 1-10	NESW	10	110S	200E	U-44089	1368	Federal	GW	TA
4304731178	LAFKAS FED 1-3	SWSW	03	110S	200E	U-34350	1367	Federal	GW	S
4304735639	LCU 5-35F	SWNW	35	100S	200E	U-01470-C	14619	Federal	GW	P
4304735646	LCU 10-35F	NWSE	35	100S	200E	U-01470-D	14619	Federal	GW	P
4304735729	LCU 14-1H	SESW	01	110S	200E	UTU-73436	14619	Federal	GW	P
4304735730	LCU 12-1H	NWSW	01	110S	200E	UTU-73436	14619	Federal	GW	P
4304735731	LCU 2-12H	NWNE	12	110S	200E	UTU-73436	14619	Federal	GW	P
4304736164	LCU 6-6G	SENW	06	110S	210E	UTU-75700	14619	Federal	GW	P
4304736165	LCU 2-1H	NWNE	01	110S	200E	UTU-76264	14619	Federal	GW	P
4304736166	LCU 5-1H	SWNW	01	110S	200E	UTU-76264	14619	Federal	GW	P
4304736167	LCU 16-1H	SESE	01	110S	200E	UTU-73436	14619	Federal	GW	P
4304736168	LCU 11-1H	NESW	01	110S	200E	UTU-73436	14619	Federal	GW	P
4304736607	LCU 11-10H	NESW	10	110S	200E	U-44089	15361	Federal	GW	P
4304736774	LCU 2-10H	NWNE	10	110S	200E	UTU-44089	15330	Federal	GW	P
4304736775	LCU 7-3H	SWNE	03	110S	200E	UTU-44090-A	15777	Federal	GW	P
4304736776	LCU 11-3H	NESW	03	110S	200E	UTU-34350	16104	Federal	GW	DRL
4304736803	LCU 7-1H	SWNE	01	110S	200E	UTU-76264	14619	Federal	GW	P
4304736804	LCU 3-3H	NENW	03	110S	200E	UTU-44090-A	16070	Federal	GW	DRL
4304736805	LCU 14-3H	SESW	03	110S	200E	UTU-34350	16106	Federal	GW	DRL
4304736806	LCU 15-9H	SWSE	09	110S	200E	UTU-76265	16042	Federal	GW	DRL
4304736807	LCU 8-12H	SENE	12	110S	200E	U-73436	14619	Federal	GW	P
4304736811	LCU 14-35F	SESW	35	100S	200E	U-01470-D	14619	Federal	GW	P
4304736812	LCU 13-35F	SWSW	35	100S	200E	U-01470-D	14619	Federal	GW	P
4304736813	LCU 12-6G	NWSW	06	110S	210E	U-72665	15248	Federal	GW	P
4304736891	LCU 9-3H	NESE	03	110S	200E	UTU-34350	16107	Federal	GW	DRL
4304737198	LCU 6-11H	SENW	11	110S	200E	UTU-73436	16009	Federal	GW	P
4304737199	LCU 12-11H	NWSW	11	110S	200E	UTU-73436	16009	Federal	GW	P
4304737200	LCU 14-11H	SESW	11	110S	200E	UTU-73436	16009	Federal	GW	P
4304737449	LCU 9-11H	NESE	11	110S	200E	UTU-73436	16009	Federal	OW	P
4304738380	LCU 6-3H	SENW	03	110S	200E	UTU-44090-A	15939	Federal	GW	DRL
4304738381	LCU 10-3H	NWSE	03	110S	200E	UTU-34350	16157	Federal	GW	DRL
4304738382	LCU 16-3H	SESE	03	110S	200E	UTU-34350	16105	Federal	GW	DRL
4304738991	LCU 2-6GX (RIGSKID)	NWNE	06	110S	210E	UTU-075700	15912	Federal	GW	P
4304739065	UTE TRIBAL 3-11H	NENW	11	110S	200E	14-20-H62-5611	16073	Indian	GW	DRL
4304739066	UTE TRIBAL 7-11H	SWNE	11	110S	200E	14-20-H62-5611	16044	Indian	GW	P
4304739067	UTE TRIBAL 8-11H	SENE	11	110S	200E	14-20-H62-5611	16045	Indian	GW	DRL

N1095 DOMINION E and P, INC. to N2615 XTO ENERGY, INC.

LITTLE CANYON UNIT

api	well_name	qtr_qtr	sec	tpw	rng	lease_num	entity	Lease	well	stat
4304735613	LCU 12-36F	NWSW	36	100S	200E	ML-47391	14619	State	GW	P
4304735643	LCU 10-2H	NWSE	02	110S	200E	ML-48771	14630	State	GW	P
4304736611	LCU 13-2H	SWSW	02	110S	200E	ML-48771	15704	State	GW	P
4304736779	LCU 5-2H	NESW	02	110S	200E	ML-48771	99999	State	GW	DRL
4304736780	LCU 11-2H	NESW	02	110S	200E	ML-48771	99999	State	GW	DRL
4304736783	LCU 14-36F	SESW	36	100S	200E	ML-47391	14619	State	GW	P
4304737986	LCU 3-36F	NENW	36	100S	200E	ML-47391	16071	State	GW	DRL
4304737987	LCU 10-36F	NWSE	36	100S	200E	ML-47391	15911	State	GW	S
4304737988	LCU 8-36F	SENE	36	100S	200E	ML-47391	16030	State	GW	P
4304737989	LCU 13-36F	SWSW	36	100S	200E	ML-47391	14619	State	GW	P
4304737999	LCU 6-36F	SENW	36	100S	200E	ML-47391	16059	State	GW	S
4304738026	LCU 11-36F	NESW	36	100S	200E	ML-47391	14619	State	GW	P
4304738256	LCU 8-2H	SENE	02	110S	200E	ML-48771	99999	State	GW	DRL
4304738257	LCU 12-2H	NWSW	02	110S	200E	ML-48771	15750	State	GW	P
4304738258	LCU 7-2H	SWNE	02	110S	200E	ML-48771	15664	State	GW	P
4304738259	LCU 9-2H	SENE	02	110S	200E	ML-48771	99999	State	GW	DRL
4304738260	LCU 15-36F	SWSE	36	100S	200E	ML-47391	15893	State	GW	P



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

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



IN REPLY REFER TO  
3180  
UT-922

Dominion Exploration & Production, Inc.  
Attn: James D. Abercrombie  
14000 Quail Springs Parkway, #600  
Oklahoma City, OK 73134-2600

August 10, 2007

Re: Little Canyon Unit  
Uintah County, Utah

Gentlemen:

On August 8, 2007, we received an indenture dated June 30, 2007, whereby Dominion Exploration & Production, Inc. resigned as Unit Operator and XTO Energy Inc. was designated as Successor Unit Operator for the Little Canyon Unit, Uintah County, Utah.

This indenture was executed by all required parties and the signatory parties have complied with Sections 5 and 6 of the unit agreement. The instrument is hereby approved effective August 15, 2007. In approving this designation, the Authorized Officer neither warrants nor certifies that the designated party has obtained all required approval that would entitle it to conduct operations under the Little Canyon Unit Agreement.

Your statewide oil and gas bond No. UTB000138 will be used to cover all operations within the River Bend Unit.

It is requested that you notify all interested parties of the change in unit operator. Copies of the approved instruments are being distributed to the appropriate federal offices, with one copy returned herewith.

Sincerely,

*/s/ Greg J. Noble*

Greg J. Noble  
Acting Chief, Branch of Fluid Minerals

Enclosure

RECEIVED  
AUG 16 2007  
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-76264	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Gas Well		<b>7. UNIT or CA AGREEMENT NAME:</b> LITTLE CANYON	
<b>2. NAME OF OPERATOR:</b> XTO ENERGY INC		<b>8. WELL NAME and NUMBER:</b> LCU 7-1H	
<b>3. ADDRESS OF OPERATOR:</b> 382 Road 3100 , Aztec, NM, 87410		<b>9. API NUMBER:</b> 43047368030000	
<b>PHONE NUMBER:</b> 505 333-3159 Ext		<b>9. FIELD and POOL or WILDCAT:</b> HILL CREEK	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1906 FNL 1790 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 01 Township: 11.0S Range: 20.0E Meridian: S		<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/16/2011  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text" value="CLEAN OUT"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
XTO Energy Inc. has cleaned out & acidized this well per the attached summary report.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 17, 2012</b>			
<b>NAME (PLEASE PRINT)</b> Barbara Nicol		<b>PHONE NUMBER</b> 505 333-3642	<b>TITLE</b> Regulatory Compliance Tech
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/13/2012	

**Little Canyon Unit 07-01H**

**11/29/2011:** MIRU. ND WH & NU BOP. TIH w/1 jt 2-3/8" tbg, tgd fill @ 8,995'. TOH w/56 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. Tbg became stuck @ possible sc bridge. Att to wk tbg free w/no success. Will RU pwr swvl in a.m. and cont to work tbg free. SWI & SDFN.

**11/30/2011:** RU pwr swvl. Wkd tbg fr/50,000# - 25,00# w/right hand torque, while pmpg dwn csg w/150 bbls TFW @ 4 BPM, to free up prod tbg w/no success. RD pwr swvl. SWI & SDFN.

**12/1/2011:** MIRU WLU. RU & RIH w/1-11/16" GR, Tgd @ 7,251'. POH w/WL & LD GR. RIH w/WL & free point tl. Free point tbg fr/6,000' - 7,230'. Free point indic fr/6,000' - 7,230', 100% free. POH w/WL & LD free point tl. RU & RIH w/1-1/2" chem cutter. Cut tbg off @ 7,230'. POH w/WL & LD chem cutter. RDMO WLU. Contd TOH w/238 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg & 2-3/8" x 20' cut off piece. Tbg showed spotty lt & hvy external sc BU fr/6,200' - 8,900'. Smpl taken for analysis. PU & TIH w/4-3/4" bit, 5-1/2" csg scr & 238 jts 2-3/8" tbg, tgd sc bridge @ 7,225'. TOH w/40 jts 2-3/8" tbg. EOT @ 6,053'. SWI & SDFN.

**12/2/2011:** Contd TOH w/197 jts 2-3/8" tbg, 2-3/8" x 2' tbg sub, 2 jts 2-3/8" tbg, 2-3/8" SN & 5-1/2" csg scr w/4-3/4" bit. PU & TIH w/4-3/4" x 4-1/2" WOS, 4-1/2" x 10' WP, 1 jts 4-1/2" WP, 2-3/8" x 3-1/8" LBS, 2-3/8" x 3-1/8" JAR, 4 jts 3-1/8" DC, 2-3/8" x 3-1/8" INT, 2-3/8" SN, 2-3/8" x 6' 4.7#, N-80, EUE, 8rd tbg sub, 2 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg, 2-3/8" x 2' 4.7#, N-80, EUE, 8rd tbg sub & 196 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 6,191'. SWI & SDFWE.

**12/5/2011:** Contd TIH w/36 jts 2-3/8" tbg. RU pwr swvl & AFU. Estb circ. CO around fish. Circ well cln for 1 hr. Ppd dwn tbg w/20 bbls TFW & kld tbg. RD pwr swvl. TOH w/231 jts 2-3/8" tbg, 2-3/8" x 2' tbg sub, 2 jts 2-3/8" tbg, 2-3/8" x 6' N-80, tbg sub, 2-3/8" SN, 2-3/8" x 3-1/8" INT, 4 - 3-1/8" DC, 2-3/8" x 3-1/8" JAR, 2-3/8" x 3-1/8" LBS, 1 jt 4-1/2" WP, 4-1/2" x 10' WP & 4-1/2" x 4-3/4" WOS. SWI & SDFN due to rig rpr.

**12/6/2011:** PU & TIH w/2-3/8" x 3-3/8" OS w/2-3/8" Grapple, 2-3/8" x 3-1/8" LBS, 2-3/8" x 3-1/8" JAR, 4 - 3-1/8" DC, 2-3/8" x 3-1/8" INT, 2-3/8" x 6' 4.7#, N-80, EUE, 8rd tbg sub, 2-3/8" SN, 2 jts 2-3/8" tbg, 2-3/8" x 2' 4.7#, N-80, EUE, 8rd tbg sub & 231 jts 2-3/8" tbg. Latch onto FT @ 7,219', Jard fish one time & fish pulled free. TOH w/231 jts 2-3/8" tbg, 2-3/8" x 2' tbg sub, 2 jts 2-3/8" tbg, 2-3/8" SN, 2-3/8" x 6' tbg sub, 2-3/8" x 3-1/8" INT, 4 - 3-1/8" DC, 2-3/8" x 3-1/8" JAR, 2-3/8" x 3-1/8" LBS & 3-3/8" OS w/2-3/8" x 10' cut off jt & 2-3/8" x 20' broken off jt. ( Did not rec 10' piece of 2-3/8" tbg, 2-3/8" SN, 1/2 BRS & SL tls ). Make decision to TIH w/WP. PU & TIH w/4-3/4" x 4-1/2" WOS, 4-1/2" x 10' WP, 1 jts 4-1/2" WP, 2-3/8" x 3-1/8" LBS, 2-3/8" x 3-1/8" JAR, 4 jts 3-1/8" DC, 2-3/8" x 3-1/8" INT, 2-3/8" x 6' 4.7#, N-80, EUE, 8rd tbg sub, 2-3/8" SN, 2 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg, 2-3/8" x 2' 4.7#, N-80, EUE, 8rd tbg sub & 40 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 1,479' SWI & SDFN.

**12/7/2011:** Contd TIH w/191 jts 2-3/8" tbg. RU pwr swvl & AFU. Estb circion. Contd TIH 10' of 2-3/8" tbg, tgd sc bridge @ 7,260'. CO hard sc bridge fr/7,260' - 7,280' & spotty sc bridges fr/7,280' - 7,346'. (Did not see press incr while drlg ). Tbg fell free. Circ well cln for 45". Ppd dwn tbg w/30 bbls TFW & kld tbg. RD pwr swvl. Contd TIH w/16 jts 2-3/8" tbg, tgd sc bridge @ 7,740'. TOH LD w/50 jts 2-3/8" tbg. EOT @ 6,222'. SWI & SDFN.

**12/8/2011:** TIH w/50 jts 2-3/8" tbg. RU pwr swvl & AFU. Estb circion. CO muple sc bridges fr/7,740- 7,940 & tbg fell free. Circ well cln for 30". Ppd dwn tbg w/10 bbls TFW & kld tbg. RD pwr swvl & contd TIH w/26 jts 2-3/8" tbg, tgd sc bridge @ 8,730'. RU pwr swvl. Estb circion. Contd CO multiple sc bridges fr/8,730' - 9018'. ( Hard drlg ). Circ well cln for one hr. Ppd dwn tbg w/20 bbls TFW & kld tbg. RD pwr swvl & AFU. TOH w/100 jts 2-3/8" tbg. EOT @ 6,000'. SWI & SDFN.

**12/9/2011:** Contd TOH w/189 jts 2-3/8" tbg, 2-3/8" x 2' tbg sub, 2 jts 2-3/8" tbg, 2-3/8" SN, 2-3/8" x 6' N-80, tbg sub, 2-3/8" x 3-1/8" INT, 4 - 3-1/8" DC, 2-3/8" x 3-1/8" JAR, 2-3/8" x 3-1/8" LBS, 1 jt 4-1/2" WP, 4-1/2" x 10' WP & 4-1/2" x 4-3/4" WOS. ( Did not rec fish ). Load tls out. TIH w/2-3/8" mule shoe col, 2-3/8" SN & 294 jts 2-3/8" tbg. EOT @ 8,902'. RU & RIH w/XTO 1.906 tbg broach to SN @ 8,901'. No ti spots. POH & LD broach. SWI & SDFWE.

**12/12/2011:** Contd TIH w/2 jt 2-3/8" tbg & 2-3/8" x 10' tbg sub. EOT @ 8,978'. Drop SV & PT tbg to 1500 psig w/17 bbls TFW, 10". Tstd ok. RU & RIH w/fishing tls on sd ln. Att to retv SV w/success. POH LD fishing tls & SV. MIRU ac equip. PT surf lines to 500 psig. Ppd dwn tbg w/500 gals 10% HCl, S-262 sc inhibitor, AS-290 EN anti sludge, A1-150 ac inhibitor, CI 86 Corr inhibitor, FENO iron control. SD one hr. Contd P. dwn tbg w/30 bbls TFW w/H2s scavenger. SI tbg. Ppd dwn csg w/500 gals 10% ac followed w/50 bbls TFW w/H2s scavenger. SWI, let ac soak overnight. SDFN.

**12/13/2011:** RU & RIH w/swb tls. BFL @ 4,500' FS. S, 0 BO, 65 BLW, 22 runs, 9-1/2 hrs. FFL @ 5,200' FS. SICP 750 psig. SWI & SDFN.

**12/14/2011:** RIH w/swb t/s. BFL @ 5,100' FS. S, 0 BO, 54 BLW, 12 runs, 6 hrs. FFL @ 6,300' FS. SICP 900 psig. RD swb. Bd well. TOH LD w/2-3/8" x 10' tbg sub & 24 jts 2-3/8" 4.7#, J-55, EUE, 8rd tbg. EOT @ 8,191'. Ld tbg on hgr. ND BOP & NU WH. SWIFPBU. ( Did not Drop BHBS ). RDMO. Susp rpts pending wait on SWU. SDFN.

**12/16/2011:** MIRU SWU. SN @ 8,977. Bd Tbg. RU & RIH w/swb t/s. BFL @ 5,400' FS. S. 0 BO, 64 BW, 11 run, 8 hrs. FFL @ 3,500' FS. KO well flwng. Cycled plngr. RWTP @ 4:00 p.m., 12/16/11. RDMO SWU.

=====Little Canyon Unit 07-01H=====