

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

FORM 3

AMENDED REPORT   
(highlight changes)

**APPLICATION FOR PERMIT TO DRILL**

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: <b>14-20-H62-5500(EDA)</b>	6. SURFACE: <b>FEE</b>
B. TYPE OF WELL: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER _____ SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: <b>BERRY PETROLEUM COMPANY</b>		8. UNIT or CA AGREEMENT NAME:	
3. ADDRESS OF OPERATOR: <b>RT. 2 BOX 7735</b> CITY <b>ROOSEVELT</b> STATE <b>UTAH</b> ZIP <b>84066</b>		PHONE NUMBER: <b>(435)722-1325</b>	9. WELL NAME and NUMBER: <b>LC TRIBAL 14-4-56</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>(SESW) 598' FSL, 1992' FWL</b>		10. FIELD AND POOL, OR WILDCAT: <i>Undesignated</i> <del>LAKE CANYON</del>	
AT PROPOSED PRODUCING ZONE: <b>SAME AS ABOVE</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESW SEC. 4, T5S, R6W U.S.B.&amp;M.</b>	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: <b>20.4 MILES FROM DUCHESNE, UTAH</b>		12. COUNTY: <b>DUCHESNE</b>	13. STATE: <b>UTAH</b>
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) <b>598'</b>	16. NUMBER OF ACRES IN LEASE: <b>80</b>	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: <b>40</b>	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) <b>N/A</b>	19. PROPOSED DEPTH: <b>5480'</b>	20. BOND DESCRIPTION: <b>RLB0005651</b>	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): <b>6930' GR</b>	22. APPROXIMATE DATE WORK WILL START: <b>UPON APPROVAL OF APD</b>	23. ESTIMATED DURATION: <b>APPROXIMATELY 6 DAYS</b>	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
<b>12 1/4</b>	<b>8 5/8 J-55 ST&amp;C or LT&amp;C 24#</b>	<b>300'</b>	<b>TYPE III + ADDITIVES</b>	<b>130 SX</b>	<b>1.17 CF/SK 15.8 PPG</b>
<b>7 7/8</b>	<b>5 1/2 J-55 LT&amp;C 15.5#</b>	<b>3000'</b>	<b>PREMIUM LITE II + ADDITIVES</b>	<b>219 SX</b>	<b>3.43 CF/SK 11.0 PPG</b>
		<b>5480'</b>	<b>PREM LITE II HIGH STRENGTH + ADD</b>	<b>228 SX</b>	<b>1.91 CF/SK 13.0 PPG</b>

NOTE: ACTUAL VOLUMES PUMPED WILL BE CALIPER HOLE VOLUME+20% EXCESS

25. **ATTACHMENTS**

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

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

NAME (PLEASE PRINT) **SHELLEY E. CROZIER** TITLE **REGULATORY & PERMITTING ASSISTANT**

SIGNATURE *Shelley E. Crozier* DATE **02/27/07**

(This space for State use only)

API NUMBER ASSIGNED: **43813-33578**

(11/2001)

**Federal Approval of this Action is Necessary**

(See Instructions, Reverse Side)

By: *[Signature]*

Approved by the  
Utah Division of  
Oil, Gas and Mining

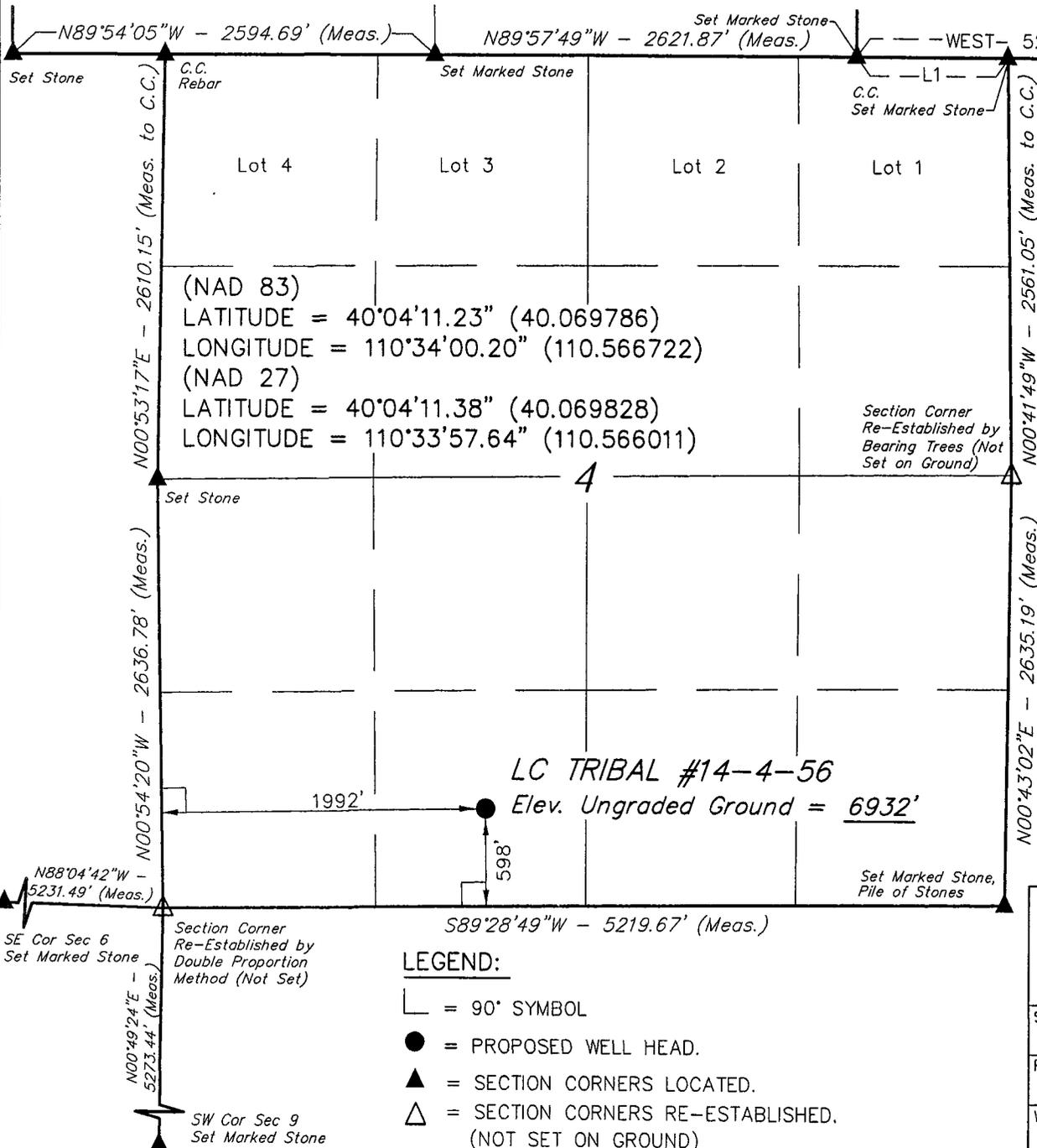
**RECEIVED**  
**MAR 02 2007**

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

T5S, R6W, U.S.B.&M.

**BERRY PETROLEUM COMPANY**

Well location, LC TRIBAL #14-4-56, located as shown in the SE 1/4 SW 1/4 of Section 4, T5S, R6W, U.S.B.&M., Duchesne County, Utah.



BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M. TAKEN FROM THE DUCHESNE SE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

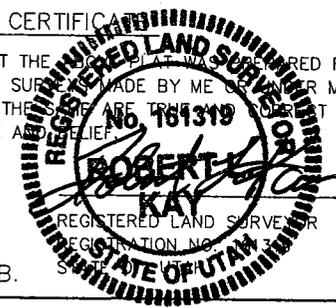
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

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



Revised: 02-23-07 D.R.B.

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

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- = SECTION CORNERS LOCATED.
- = SECTION CORNERS RE-ESTABLISHED. (NOT SET ON GROUND)

SCALE 1" = 1000'	DATE SURVEYED: 12-12-06	DATE DRAWN: 01-04-07
PARTY D.S. M.B. D.R.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BERRY PETROLEUM COMPANY	

SELF-CERTIFICATION STATEMENT

The following self -certification statement is provided per federal requirements dated June 15, 1988.

Please be advised that Berry Petroleum Company is considered to be the operator of the following well.

LC Tribal 14-4-56  
SE 1/4, SW 1/4, 598' FSL 1992' FWL, Section 4, T. 5 S., R. 6 W., U.S.B.&M.  
Lease: 14-20-H62-5500 (EDA)  
Duchesne, County, Utah

Berry Petroleum Company is responsible under the terms of the lease for the operations conducted upon the lease lands.



Shelley Crozier  
Regulatory and Permitting Assistant  
Berry Petroleum Company  
4000 South 4028 West  
Route 2, Box 7735  
Roosevelt, Utah 84066  
435-722-1325

BERRY PETROLEUM COMPANY

LC Tribal 14-4-56

Surface location SE 1/4, SW 1/4, 598' FSL 1992' FWL, Section 4, T. 5 S., R. 6 W., U.S.B.&M.  
Duchesne County, Utah

ONSHORE ORDER NO. 1

DRILLING PROGRAM

**1,2 Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth</u>
Uinta	surface
Green River	999'
Green River Upper Marker	1,428'
Mahogany	2,048
Tgr3 Marker	3,089'
Douglas Creek	3,852'
*Black Shale	4,549'
*Castle Peak	4,817'
Uteland Butte Ls.	5,134'
Wasatch	5,380'
TD	5,480'
Base of Moderately Saline Water (less than 10,000 ppm)	4,234'

\*PROSPECTIVE PAY

**3 Pressure Control Equipment : (Schematic Attached)**

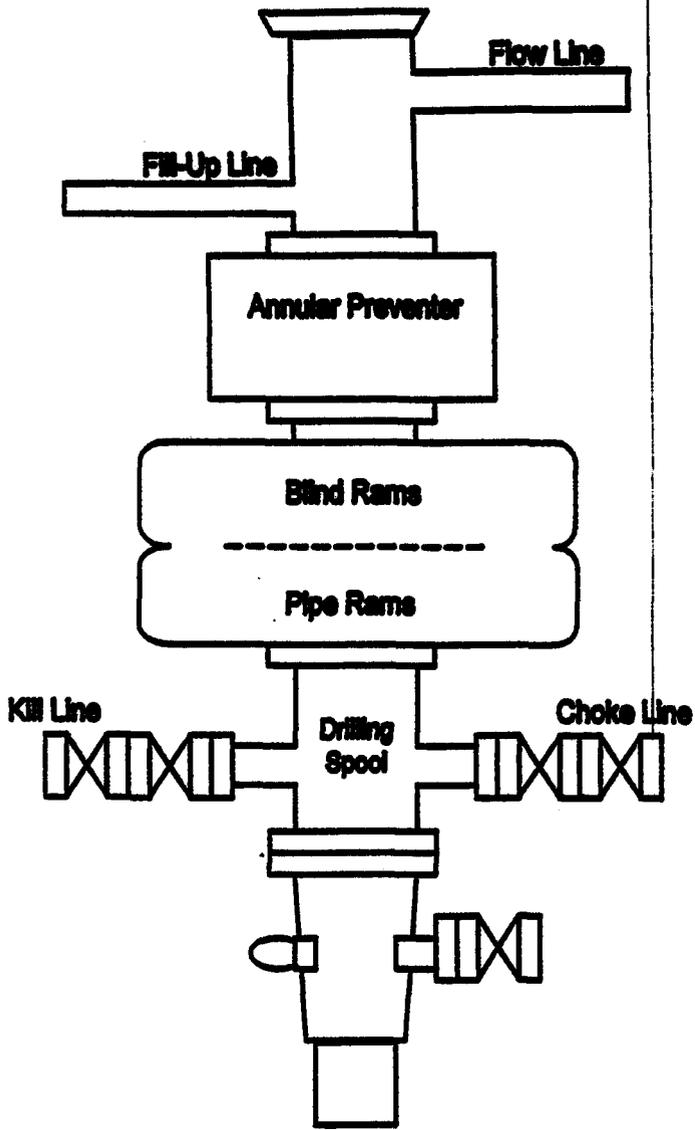
The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc. A 2M system will be utilized. The attached diagram depicts the use of an annular in conjunction with double rams. However, an annular, double rams or both may be used depending on the drilling rig contracted. Chart recorders will be used for all pressure tests.

Test charts, with individual test results identified, shall be maintained on location while drilling and shall be made available to representative upon request.

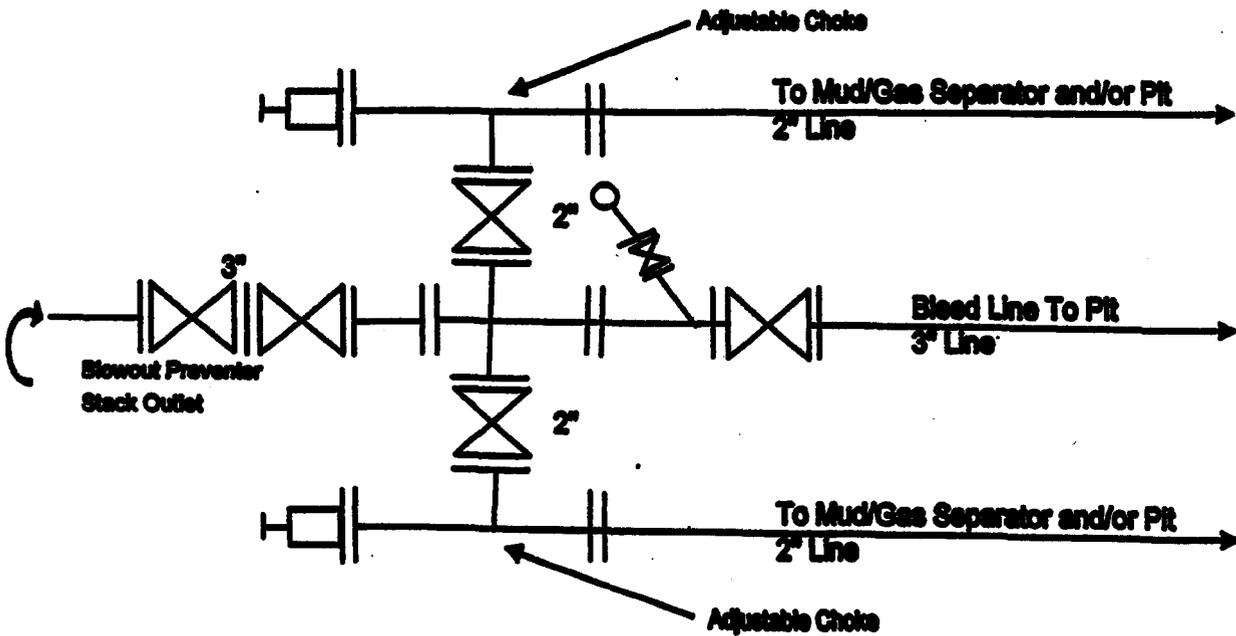
The anticipated bottom hole pressure will be less than 3,000 psi.

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 300'	No Pressure Control
300 – 5480'	9" 2000# Ram Type BOP 9" 2000# Annular BOP

**BOP Diagram**



**2,000 PSI Choke Manifold Equipment**



**4 Proposed Casing and Cementing Program**

The proposed Casing Program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Type</u>	<u>Connection</u>	<u>Weight</u>
Surface	300'	12 1/4"	8-5/8"	J-55	ST&C	24#
Production	5480'	7-7/8"	5-1/2"	J-55	LT&C	15.5#

<u>Surface</u>	<u>Fill</u>	<u>Type &amp; Amount</u>
0' - 300'	300'	Approximately 130 SX Premium Plus (Type III) + additives or a similar slurry with a minimum weight of 14.3 ppg and approximate yield of 1.43 cf/sk, minimum 24 hr compressive strength = 500 psi (Cement will be circulated to surface and topped off, if necessary.)

<u>Production with lost circulation</u>	<u>Type &amp; Amount</u>
0 - 5480'	SEE ATTACHED CEMENT PROCEDURES

<u>Production without lost circulation</u>	<u>Type &amp; Amount</u>
0' - 5480'	SEE ATTACHED CEMENT PROCEDURES

For production casing, actual cement volumes will be determined from the caliper log plus a minimum of 25% excess.

Berry Petroleum Company  
Drilling Program  
LC Tribal 14-4-56  
Duchesne County, Utah

**5 Drilling Fluids Program**

Interval	Weight	Viscosity	Fluid Loss	Remarks
0' – 300'	8.6	27	NC	Spud Mud or air
300'-5480'	8.6	27	NC	KCL Water

**6 Evaluation Program**

Logging Program: HRI-GR-SP with SDL-DSN-PE: surface casing to TD.  
Preserve samples from all show intervals.

Sampling: 10' dry cut samples: Douglas Creek to TD. Preserve samples  
From all show intervals.

Surveys: As deemed necessary

Mud Logger: As deemed necessary

Drill Stem Tests: As deemed necessary

Cores: As deemed necessary

**7 Abnormal Conditions**

No abnormal temperatures or pressures or other hazards are anticipated.

**8 Anticipated Starting Dates and Notification of Operations**

Drilling Activity:

Anticipated Commencement Date: Upon approval of the APD.  
Drilling Days: Approximately 6 days.  
Completion Days: Approximately 7 days.

BERRY PETROLEUM COMPANY

LC Tribal 14-4-56

Surface location SE 1/4, SW 1/4, 598' FSL 1992' FWL, Section 4, T. 5 S., R. 6 W., U.S.B.&M.  
Duchesne County, Utah

ONSHORE ORDER NO. 1

MULTI POINT SURFACE USE & OPERATIONS PLAN

**1 Existing Roads**

To reach the Berry Petroleum Company well, LC Tribal 14-4-56, in Section 4-T5S-R6W:

Start in Duchesne, Utah. Proceed west on US Highway 40 and go 8.3 miles. Turn south then southwest just past Starvation Reservoir along existing 2 track road and go 5.7 miles. Keep proceeding south another 4.9 miles. Turn southeast and go 1.3 miles down 2 track road to the LC Tribal 14-4-56 location. (See Topo A&B)

The existing oilfield service road may need some surface material to prevent or repair holes in the road due to heavy truck traffic during the drilling and completion operation. If repairs are made the operator will secure material from private sources.

Please see the attached map for additional details.

**2 Planned Access Road**

See Topographic Map "B" for the location of the proposed access road.

**3 Location of Existing Wells**

See Topographic Map "C" for the location of existing wells within a 1mile radius.

**4 Location of Tank Batteries, Production Facilities and Production Gathering and Service Lines**

All permanent (on site for six months or longer) structures constructed or installed will be painted a flat, non-reflective, earth tone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee. All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required paint color is desert brown (10YR 6/4) unless otherwise designated by the Authorized Officer.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank. The site specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded with the Authorized Agency Officer's approval to meet SPCC requirements.

A description of the proposed pipeline and a map illustrating the proposed route is attached.

All site security guidelines identified in Federal regulation 43 CFR 3126.7, will be adhered to. All off-lease storage, off-lease measurement, or commingling on-lease or off-lease production will have prior written approval from the Authorized Agency Officer.

Gas meter runs will be located approximately 100 feet from the wellhead. Where necessary, the gas line will be anchored down from the wellhead to the meter.

**5 Location and Type of Water Supply**

*Water for the drilling and completion will be pumped or trucked from the Berry source wells located in Sec. 23, T5S, R5W or Sec. 24, T5S, R5W, permit # 43-11041, or from Douglas E. & Yordis Nielsen source well located in Sec. 12, T5S, R6W, permit # 43-1628, or from Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W or from East Duchesne Water, Arcadia Feedlot, Sec. 28, T3S, R3W or from Petroglyph Operating Company 08-04 Waterplant, Sec. 8, T5S, R3W.*

**6 Source of Construction Materials**

All construction materials for this location site and access road shall be borrow material accumulated during construction of the location site and access road.

Additional gravel or pit lining material will be obtained from a private source.

The use of materials under Authorized Agency jurisdiction will conform with 43 CFR 3610.2-3.

**7 Methods of Handling Waste Materials**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 180 days after drilling is terminated. Upon well completion, weather permitting (summer months), any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless otherwise specified, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

If it is determined at the onsite that a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced liner a minimum of 12 millimeters thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash or scrap that could puncture the liner will not be disposed of in the pit.

Reserve pit leaks are considered an unacceptable and undesirable event and will be orally reported to the Authorized Agency Officer.

After first production, produced wastewater will be trucked to one of the following approved waste water disposal sites: R.N. Industries, Inc. Sec. 4, T2S, R2W, Bluebell; MC & MC Disposal Sec. 12, T6S, R19E, Vernal; LaPoint Recycle & Storage Sec. 12, T5S, R19E, LaPoint or Water Disposal Inc. Sec. 32, T1S, R1W, Roosevelt, used in the operations of the field or, unless prohibited by the Authorized Officer, confined to the approved pit or storage tank for a period not to exceed 90 days. The use of such pit is hereby approved as part of this Application for Permit to Drill.

Production fluids will be contained in leak-proof tanks. All production fluids will be disposed of at approved disposal sites. Produced water, oil, and other byproducts will not be applied to roads or well pads for control of dust or weeds. The indiscriminate dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical portable toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location.

All debris and other waste materials not contained in the trash cage will be cleaned up and removed from the location promptly after removal of the completion rig (weather permitting).

Any open pits will be fenced during the operations. The fencing will be maintained with best efforts until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount equal to or greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas.

## **8 Ancillary Facilities**

There are no ancillary facilities planned for at this time and none are foreseen in the future.

## **9 Wellsite Layout**

The attached Location Layout diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, pipe racks, trailer parking, spoil dirt stockpile(s) and surface material stockpile(s)

**10 Plans for Restoration of the Surface**

The dirt contractor will be provided with approved copies of the Surface Use Plan prior to construction activities.

Upon well completion, within a reasonable time, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions may include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and the re-establishment of vegetation as specified.

All disturbed areas will be re-contoured to the approximate natural contours.

Any drainage rerouted during the construction activities shall be restored to its original line of flow or as near as possible.

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be folded, torn, and perforated after the pit dries and prior to backfilling the reserve pit.

Before any dirt work associated with reserve pit restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations. The reserve pit will be reclaimed within 180 days from the date of well completion, weather permitting. Once reclamation activities have begun, the activities will be completed within 30 days.

After the reserve pit has been reclaimed, no depressions in the soil covering the reserve pit will be allowed. The object is to keep seasonal rainfall and runoff from seeping into the soil used to cover the reserve pit. Diversion ditches and water bars will be used to divert runoff as needed.

Prior to the construction of the location, the top 12 inches of soil material (if present) will be stripped and stockpiled. Placement of the topsoil is noted on the location plat attached. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit.

When restoration activities have been completed, the location site and new access road cuts and shoulders shall be reseeded. Prior to reseeded, all disturbed areas, including the old access road, will be scarified and left with a rough surface.

The Authorized Agency Officer shall be contacted for the required seed mixture. Seed will be broadcast and the amount of seed mixture per acre will be doubled. The seeded area will then be "walked" with a dozer to assure coverage of the seeds. The seed mixture will reflect the recommendation from the Archeology study done.

At final abandonment, all casing shall be cut off at the base of the cellar or 3 feet below final restored ground level, whichever is deeper, and cap the casing with a metal plate a minimum of

0.25 inches thick. The cap will be welded in place and the well location and identity will be permanently inscribed on the cap. The cap also will be constructed with a weep hole.

**11 Surface Ownership**

**Division of Wildlife Resources  
1594 W. North Temple, Suite 2110  
Salt Lake City, UT 84114-6301  
1-801-538-4792**

**12 Other information**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The operator will control noxious weeds along access road use authorizations, pipeline route authorizations, well sites or other applicable facilities. A list of noxious weeds may be obtained from the Authorized Agency or the appropriate County Extension Office.

Drilling rigs and/or equipment used during drilling operations on this location will not be stacked or stored on administered lands after the conclusion of drilling operations or at any other time without authorization by the Authorized Agency Officer. If authorization is obtained, such storage is only a temporary measure.

Travel is restricted to only approved travel routes.

A class III archaeological survey will be conducted on all lands, unless landowner waives rights for archaeological survey. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. The operator is responsible for informing all persons in the area who are associated with this project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities shall be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials are uncovered during construction, the Operator is to immediately stop work that might further disturb such materials and contact the Authorized Agency Officer.

Within five working days, the Authorized Agency Officer will inform the operator as to:

Whether the materials appear eligible for the National Historic Register of Historic Places;

The mitigation measures the operator will likely have to undertake before the site can be used (assuming in-situ preservation is not necessary); and,

Berry Petroleum Company  
Multi Point Surface Use & Operations Plan  
LC Tribal 14-4-56  
Duchesne County, Utah  
Page Six

The time frame for the Authorized Officer to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the findings of the Authorized Officer are correct and that the mitigation measures are appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of mitigation and/or the delays associated with this process, the Authorized Agency Officer and/or the surface owner will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise the operator will be responsible for mitigation costs. The Authorized Agency Officer and/or the surface owner will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the Authorized Agency Officer that required mitigation has been completed, the Operator will then be allowed to resume construction.

All Surface Use Conditions of Approval associated with the Landowner Surface Use Agreement and Environmental Analysis Mitigation Stipulations will be adhered to.

All well site locations will have appropriate signs indicating the name of the operator, the lease serial number, the well name and number, the survey description of the well (either footages or the quarter/quarter section, the section, township, and range).

**13 Operator's Representative and Certification**

A) Representative  
NAME: Shelley Crozier  
ADDRESS: Berry Petroleum Company  
4000 South 4028 West  
Route 2, Box 7735  
Roosevelt, Utah 84066  
PHONE: 435-722-1325

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations and onshore oil and gas orders. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The drilling permit will be valid for a period of one year from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

B) Certification:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge and belief, true and correct; and that the work associated with the operations proposed herein will be performed by Berry Petroleum Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

February 27, 2007  
DATE

Shelley Crozier  
Shelley Crozier  
Regulatory and Permitting Assistant  
Berry Petroleum Company

N89°54'05"W - 2594.69' (Meas.) N89°57'49"W - 2621.87' (Meas.)

Set Stone NW Cor Sec 4  
C.C., Rebar

Set Marked Stone

NE Cor Sec 4  
Set Marked Stone

**CORRIDOR RIGHT-OF-WAY DESCRIPTION ON STATE OF UTAH DEPT. OF NATURAL RESOURCES PROPERTY**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SW 1/4 NW 1/4 OF SECTION 4, T5S, R6W, U.S.B.&M. WHICH BEARS N54°43'46"E 1021.10' FROM THE WEST 1/4 CORNER OF SAID SECTION 4, THENCE S59°17'03"E 202.59'; THENCE S67°13'02"E 145.75'; THENCE S78°14'43"E 156.21'; THENCE S70°50'53"E 138.42'; THENCE S53°46'24"E 136.55'; THENCE S39°34'41"E 197.59'; THENCE S28°23'12"E 118.88' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 NW 1/4 OF SAID SECTION 4, WHICH BEARS N89°30'13"E 1718.52' FROM THE WEST 1/4 CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.755 ACRES MORE OR LESS.

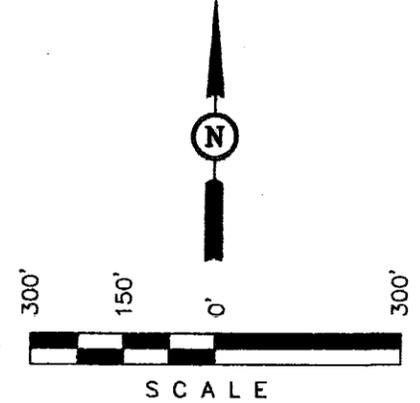
**STATE OF UTAH  
DEPT. OF NATURAL  
RESOURCES**

**BERRY PETROLEUM COMPANY  
LOCATION DAMAGE AREA &  
CORRIDOR RIGHT-OF-WAY  
ON STATE LANDS**

(For LC TRIBAL #14-4-56)  
LOCATED IN  
SECTION 4, T5S, R6W, U.S.B.&M.  
DUCHEсне COUNTY, UTAH

**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
STATE OF UTAH DEPT. OF NATURAL RES.	1095.99'	0.755	66.424
STEPHEN P. ANDERSON et ux	1997.18'	1.375	121.041

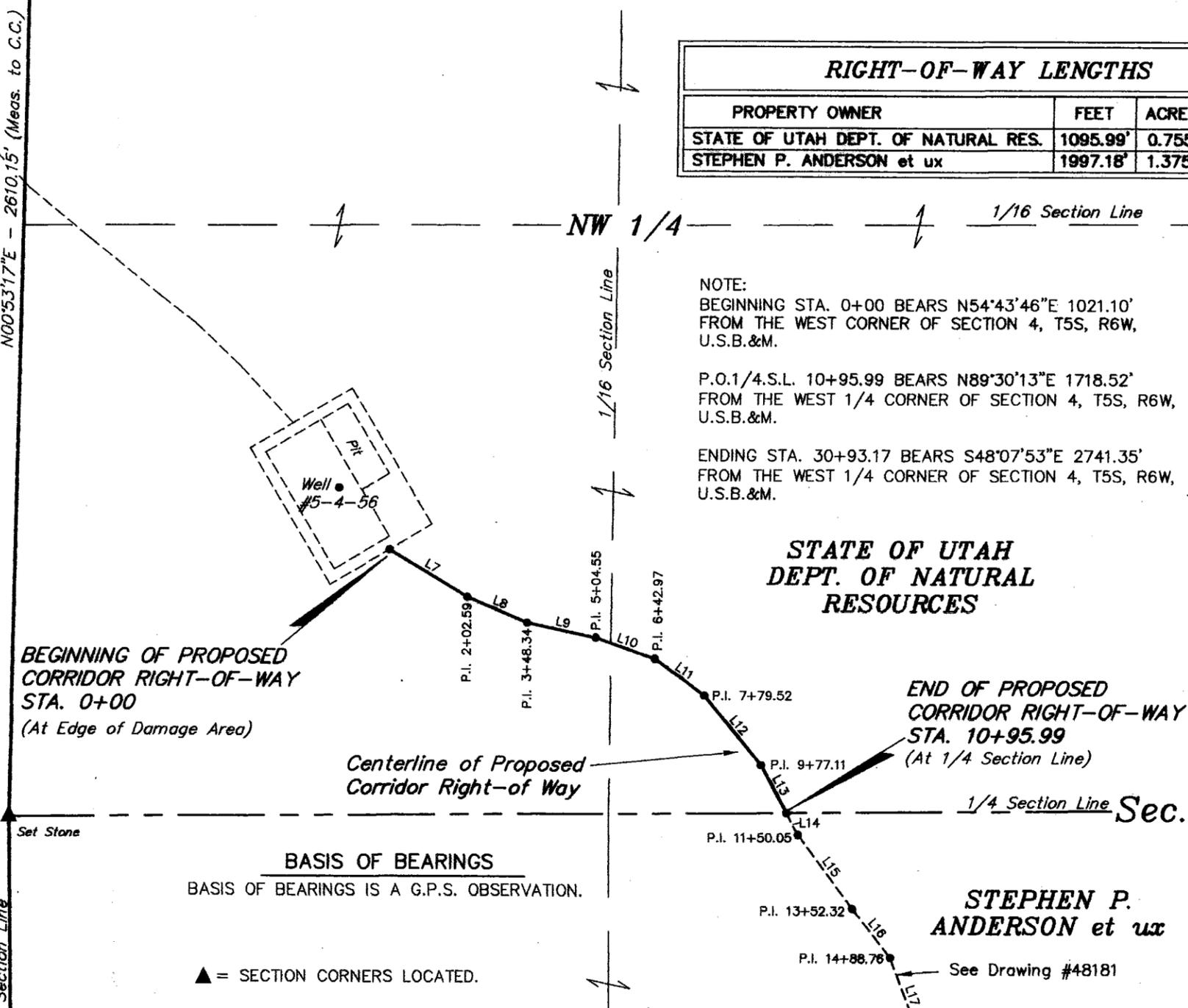


**LINE TABLE**

LINE	BEARING	LENGTH
L7	S59°17'03"E	202.59'
L8	S67°13'02"E	145.75'
L9	S78°14'43"E	156.21'
L10	S70°50'53"E	138.42'
L11	S53°46'24"E	136.55'
L12	S39°34'41"E	197.59'
L13	S28°23'12"E	118.88'
L14	S28°23'12"E	54.06'
L15	S37°11'36"E	202.27'
L16	S38°44'12"E	136.44'
L17	S21°19'45"E	239.43'

NOTE:  
BEGINNING STA. 0+00 BEARS N54°43'46"E 1021.10' FROM THE WEST CORNER OF SECTION 4, T5S, R6W, U.S.B.&M.  
  
P.O.1/4.S.L. 10+95.99 BEARS N89°30'13"E 1718.52' FROM THE WEST 1/4 CORNER OF SECTION 4, T5S, R6W, U.S.B.&M.  
  
ENDING STA. 30+93.17 BEARS S48°07'53"E 2741.35' FROM THE WEST 1/4 CORNER OF SECTION 4, T5S, R6W, U.S.B.&M.

**STATE OF UTAH  
DEPT. OF NATURAL  
RESOURCES**



BEGINNING OF PROPOSED CORRIDOR RIGHT-OF-WAY STA. 0+00 (At Edge of Damage Area)

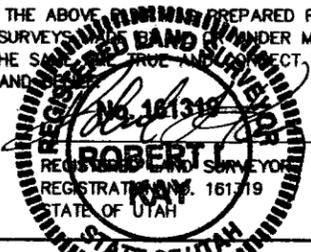
END OF PROPOSED CORRIDOR RIGHT-OF-WAY STA. 10+95.99 (At 1/4 Section Line)

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

**STEPHEN P.  
ANDERSON et ux**

▲ = SECTION CORNERS LOCATED.

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



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

SCALE 1" = 300'	DATE 01-22-06
PARTY D.S. M.B. D.R.B.	REFERENCES G.L.O. PLAT
WEATHER COLD	FILE 4 8 1 8 0

**LOCATION DAMAGE AREA &  
CORRIDOR RIGHT-OF-WAY  
ON FEE LANDS**

(For LC TRIBAL #14-4-56)

LOCATED IN  
SECTION 4, T5S, R6W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH

LINE TABLE		
LINE	BEARING	LENGTH
L1	S61°11'08"E	211.83'
L2	S28°48'52"W	230.00'
L3	S59°04'15"W	138.92'
L4	N61°11'08"W	190.00'
L5	N28°48'52"E	350.00'
L6	S61°11'08"E	48.17'
L13	S28°23'12"E	118.88'
L14	S28°23'12"E	54.06'
L15	S37°11'36"E	202.27'
L16	S38°44'12"E	136.44'
L17	S21°19'45"E	239.43'
L18	S13°20'01"E	162.93'
L19	S06°46'59"E	207.26'
L20	S11°27'45"E	244.96'
L21	S20°22'22"E	151.53'
L22	S10°08'46"E	116.57'
L23	S23°04'01"W	155.53'
L24	S25°59'42"W	162.41'
L25	S18°29'44"W	126.02'
L26	S14°23'26"W	37.77'

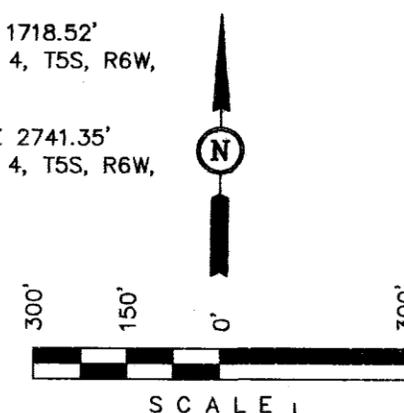
BEGINNING OF PROPOSED  
CORRIDOR RIGHT-OF-WAY  
STA. 10+95.99  
(At 1/4 Section Line)

STEPHEN P.  
ANDERSON et ux

Centerline of Proposed  
Corridor Right-of-Way

NOTE:  
P.O. 1/4.S.L. 10+95.99 BEARS N89°30'13"E 1718.52'  
FROM THE WEST 1/4 CORNER OF SECTION 4, T5S, R6W,  
U.S.B.&M.

ENDING STA. 30+93.17 BEARS S48°07'53"E 2741.35'  
FROM THE WEST 1/4 CORNER OF SECTION 4, T5S, R6W,  
U.S.B.&M.



**CORRIDOR RIGHT-OF-WAY DESCRIPTION  
ON STEPHEN P. ANDERSON PROPERTY**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 SW 1/4 OF SECTION 4, T5S, R6W, U.S.B.&M. WHICH BEARS N89°30'13"E 1718.52' FROM THE WEST 1/4 CORNER OF SAID SECTION 4, THENCE S28°23'12"E 54.06'; THENCE S37°11'36"E 202.27'; THENCE S38°44'12"E 136.44'; THENCE S21°19'45"E 239.43'; THENCE S13°20'01"E 162.93'; THENCE S06°46'59"E 207.26'; THENCE S11°27'45"E 244.96'; THENCE S20°22'22"E 151.53'; THENCE S10°08'46"E 116.57'; THENCE S23°04'01"W 155.53'; THENCE S25°59'42"W 162.41'; THENCE S18°29'44"W 126.02'; THENCE S14°23'26"W 37.77' TO A POINT IN THE SE 1/4 SW 1/4 OF SAID SECTION 4, WHICH BEARS S48°07'53"E 2741.35' FROM THE WEST 1/4 CORNER OF SAID SECTION 4. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.375 ACRES MORE OR LESS.

**DAMAGE AREA DESCRIPTION  
STEPHEN P. ANDERSON PROPERTY**

BEGINNING AT A POINT IN THE SE 1/4 SW 1/4 OF SECTION 4, T5S, R6W, U.S.B.&M. WHICH BEARS S48°07'53"E 2741.35' FROM THE WEST 1/4 CORNER OF SAID SECTION 4, THENCE S61°11'08"E 211.83'; THENCE S28°48'52"W 230.00'; THENCE S59°04'15"W 138.92'; THENCE N61°11'08"W 190.00'; THENCE N28°48'52"E 350.00'; THENCE S61°11'08"E 48.17' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.993 ACRES MORE OR LESS.

DAMAGE AREA  
LC TRIBAL #14-4-56

Contains 1.993 Acres

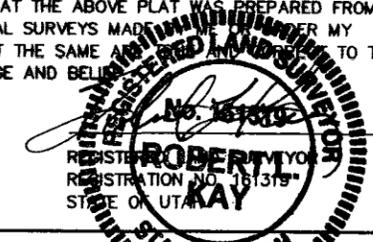
STEPHEN P.  
ANDERSON et ux

END OF PROPOSED  
CORRIDOR RIGHT-OF-WAY  
STA. 30+93.17  
(At Edge of Damage Area)

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	RODS
STATE OF UTAH DEPT. OF NATURAL RES.	1095.99'	0.755	66.424
STEPHEN P. ANDERSON et ux	1997.18'	1.375	121.041

CERTIFICATE

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



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

SCALE 1" = 300'	DATE 01-22-06
PARTY D.S. M.B. D.R.B.	REFERENCES G.L.O. PLAT
WEATHER COLD	FILE 4 8 1 8 1

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

▲ = SECTION CORNERS LOCATED.

Section Line  
N00°54'20"W - 2636.78' (Meas.)

Section Corner  
Re-Established by  
Double Proportion  
Method (Not Set)

SW Cor Sec 9  
Set Marked Stone

N88°04'42"W - 5231.49' (Meas.)

SW Cor Sec 5  
Set Marked Stone

Section Line

S89°28'49"W - 5219.67' (Meas.)

Set Marked Stone,  
Pile of Stones

SW 1/4

SE 1/4

Sec. 4

1/4 Section Line

1/16 Section Line

1/4 Section Line

P.I. 9+77.11

P.I. 11+50.05

P.I. 13+52.32

P.I. 14+88.76

P.I. 17+28.19

P.I. 18+91.12

P.I. 20+98.38

P.I. 23+43.34

P.I. 24+94.87

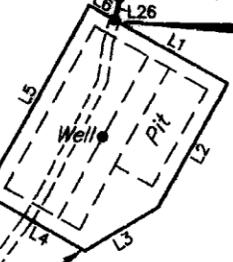
P.I. 26+11.44

P.I. 27+66.97

P.I. 29+29.38

P.I. 30+55.40

Exist. Road





Proposal No: 179967817A

**Berry Petroleum Co**  
LC TRIBAL 14-4-56

Unnamed Field  
sec 4 T5S R6W  
Duchesne County, Utah  
February 21, 2007

**Cement Recommendation**

**Prepared for:**  
Tim McDonald  
Berry Petroleum Co.

**Prepared by:**  
KRISTIAN M COZYRIS  
Region Engineer  
Denver, Colorado



**Service Point:**

Vernal  
Bus Phone: (435) 781-2294  
Fax: (435) 789-4530

**Service Representatives:**

Darrin Bailey  
Senior Sales Rep  
Vernal, Utah  
Bus Phone: (435) 781-2294  
Mobile: (435) 828-4104

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Job Description:** Cement 5-1/2 inch Production Casing  
**Date:** February 21, 2007



**Proposal No:** 179967817A

**JOB AT A GLANCE**

<b>Depth (TVD)</b>	5,480 ft
<b>Depth (MD)</b>	5,480 ft
<b>Hole Size</b>	7.875 in
<b>Casing Size/Weight :</b>	5 1/2 in, 15.5 lbs/ft
<b>Pump Via</b>	
<b>Total Mix Water Required</b>	6,795 gals
<b>Pre-Flush</b>	
<b>Fresh Water</b>	10 bbls
<b>Density</b>	8.3 ppg
<b>Spacer</b>	
<b>KCI Water</b>	10 bbls
<b>Density</b>	8.4 ppg
<b>Spacer</b>	
<b>Fresh Water</b>	20 bbls
<b>Density</b>	8.3 ppg
<b>Lead Slurry</b>	
<b>Premium Lite II</b>	219 sacks
<b>Density</b>	11.0 ppg
<b>Yield</b>	3.43 cf/sack
<b>Tail Slurry</b>	
<b>Premium Lite II HS+ additives</b>	228 sacks
<b>Density</b>	13.0 ppg
<b>Yield</b>	1.91 cf/sack
<b>Displacement</b>	
<b>Fresh Water</b>	129 bbls
<b>Density</b>	8.3 ppg

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Job Description:** Cement 5-1/2 inch Production Casing  
**Date:** February 21, 2007



Proposal No: 179967817A

**WELL DATA**

**ANNULAR GEOMETRY**

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	342	342
7.875 HOLE	5,480	5,480

**SUSPENDED PIPES**

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.950	15.5	5,480	5,480

**Float Collar set @** 5,440 ft  
**Mud Density** 8.40 ppg  
**Mud Type** Water Based  
**Est. Static Temp.** 138 ° F  
**Est. Circ. Temp.** 110 ° F

**VOLUME CALCULATIONS**

342 ft x 0.1926 cf/ft with 0 % excess = 65.9 cf  
 3,158 ft x 0.1733 cf/ft with 25 % excess = 685.0 cf  
 1,980 ft x 0.1733 cf/ft with 25 % excess = 428.8 cf  
 40 ft x 0.1336 cf/ft with 0 % excess = 5.3 cf (inside pipe)  
**TOTAL SLURRY VOLUME** = 1185.0 cf  
 = 211 bbls

Confirm well data with customer representative prior to pumping.

Operator Name: Berry Petroleum Co  
 Well Name: LC TRIBAL 14-4-56  
 Job Description: Cement 5-1/2 inch Production Casing  
 Date: February 21, 2007



Proposal No: 179967817A

**FLUID SPECIFICATIONS**

Pre-Flush 10.0 bbls Fresh Water @ 8.34 ppg  
 Spacer 10.0 bbls KCl Water @ 8.4 ppg  
 Spacer 20.0 bbls Fresh Water @ 8.34 ppg

FLUID	VOLUME CU-FT	VOLUME FACTOR	AMOUNT AND TYPE OF CEMENT
Lead Slurry	751	/ 3.4	= 219 sacks Premium Lite II Cement + 0.05 lbs/sack Static Free + 3 lbs/sack CSE + 3% bwow Potassium Chloride + 0.25 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 201.6% Fresh Water
Tail Slurry	434	/ 1.9	= 228 sacks Premium Lite II High Strength + 0.05 lbs/sack Static Free + 0.4% bwoc R-3 + 0.4% bwoc FL-63 + 0.25 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 0.2% bwoc BA-59 + 92% Fresh Water
Displacement			129.5 bbls Fresh Water @ 8.34 ppg

**CEMENT PROPERTIES**

	SLURRY NO. 1	SLURRY NO. 2
Slurry Weight (ppg)	11.00	13.00
Slurry Yield (cf/sack)	3.43	1.91
Amount of Mix Water (gps)	21.03	9.60
Amount of Mix Fluid (gps)	21.03	9.60
Estimated Pumping Time - 70 BC (HH:MM)	4:30	4:41

**COMPRESSIVE STRENGTH**

24 hrs @ 144 ° F (psi)	1700
72 hrs @ 144 ° F (psi)	2000

**RHEOLOGIES**

FLUID	TEMP	600	300	200	100	6	3
Tail Slurry	@ 80 ° F	179	145	112	88	9	7

Slurry and the chemical loadings subject to change pending pre-job testing.

The slurry volumes are based off of 25% excess over gauge hole.



## CONDITIONS

**BJ Services' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions contained in the current BJ Services Price Book.** The Terms and Conditions include, among other things, an indemnity in favor of BJ Services from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of BJ Services. The Terms and Conditions also limit the warranties provided by the BJ Services and the remedies to which Customer may be entitled in the event of a breach of warranty by BJ Services. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions. **If you do not have a copy of the BJ Services Price Book, you can view the Terms and Conditions on BJ Services Web Site, [www.bjservices.com](http://www.bjservices.com).** By requesting that BJ Services perform the services described herein, **Customer acknowledges that such Terms and Conditions are applicable to the services.** Further, by requesting the services, **Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a Field Receipt or other document presented by BJ Services containing such Terms and Conditions.**

**In the event that Customer and BJ Services have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions. If you are interested in entering into Master Services Agreement with BJ Services, please contact us through the "Go BJ" button on the BJ Services Web Site.**

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Date:** February 21, 2007



**Proposal No:** 179967817A

## PRODUCT DESCRIPTIONS

### **BA-59**

A free flowing powder which provides improved bonding and minimizes gas migration. Provides expansion properties and zero free water to cement slurries.

### **Bentonite**

Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

### **CSE**

Compressive Strength Enhancer - Fumed Silica. An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water

### **Cello Flake**

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

### **FL-63**

A non-retarding, non-viscosifying fluid loss additive particularly suited for use with coil tubing and/or close tolerance liner cementing. FL-63 is effective from low to high temperatures. Concentrations of 0.2% to 1.0% BWOC are typical.

### **FP-6L**

A clear liquid that decreases foaming in slurries during mixing.

### **Koi Seal**

A granular, lightweight material (specific gravity of 1.3) used to control lost circulation in zones of natural and induced fractures, cavities and high permeability.

### **Potassium Chloride**

A granular salt used to reduce clay swelling caused by water-base stimulation fluids.

### **Premium Lite II Cement**

Premium Lite II is a high-yield, cost effective lightweight cement blend that provides exceptional compressive strength and reduced permeability when mixed at low slurry weights.

### **Premium Lite II High Strength**

Premium Lite II High Strength is a high-yield, cost effective lightweight cement blend that provides exceptional compressive strength and reduced permeability when mixed at low slurry weights.

### **R-3**

A low temperature retarder used in a wide range of slurry formulations to extend the slurry thickening time.

### **Sodium Metasilicate**

An accelerator used to decrease the thickening time of cement slurries.

### **Static Free**

An anti-static additive used to prevent air entrainment due to agglomerated particles. Can be used in Cementing and Fracturing operations to aid in the flow of dry materials.

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Date:** February 21, 2007



**Proposal No:** 179967817A

---

**End of Report**



Proposal No: 179967803A

**Berry Petroleum Co**  
LC TRIBAL 14-4-56

Unnamed Field  
sec 4 T5S R6W  
Duchesne County, Utah  
February 21, 2007

**Cement Recommendation**

**Prepared for:**  
Tim McDonald  
Berry Petroleum Co.

**Prepared by:**  
KRISTIAN M COZYRIS  
Region Engineer  
Denver, Colorado



**Service Point:**  
Vernal  
Bus Phone: (435) 781-2294  
Fax: (435) 789-4530

**Service Representatives:**  
Darrin Bailey  
Senior Sales Rep  
Vernal, Utah  
Bus Phone: (435) 781-2294  
Mobile: (435) 828-4104

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Job Description:** Cement 5-1/2 inch Production Casing  
**Date:** February 21, 2007



**Proposal No:** 179967803A

**JOB AT A GLANCE**

<b>Depth (TVD)</b>	5,480 ft
<b>Depth (MD)</b>	5,480 ft
<b>Hole Size</b>	7.875 in
<b>Casing Size/Weight :</b>	5 1/2 in, 15.5 lbs/ft
<b>Pump Via</b>	
<b>Total Mix Water Required</b>	7,140 gals
<b>Pre-Flush</b>	
<b>Fresh Water</b>	10 bbls
<b>Density</b>	8.3 ppg
<b>Spacer</b>	
<b>KCI Water</b>	10 bbls
<b>Density</b>	8.4 ppg
<b>Spacer</b>	
<b>Fresh Water</b>	20 bbls
<b>Density</b>	8.3 ppg
<b>Lead Slurry</b>	
<b>PL2+SF+3#CSE+3%KCL+0.25</b>	219 sacks
<b>Density</b>	11.0 ppg
<b>Yield</b>	3.43 cf/sack
<b>Tail Slurry</b>	
<b>50:50:2+3%KCL+0.5%EC-</b>	447 sacks
<b>Density</b>	14.3 ppg
<b>Yield</b>	1.27 cf/sack
<b>Displacement</b>	
<b>Fresh Water</b>	144 bbls
<b>Density</b>	8.3 ppg

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Job Description:** Cement 5-1/2 inch Production Casing  
**Date:** February 21, 2007



**Proposal No:** 179967803A

**WELL DATA**

**ANNULAR GEOMETRY**

ANNULAR I.D. (in)	DEPTH(ft)	
	MEASURED	TRUE VERTICAL
8.097 CASING	342	342
7.875 HOLE	5,480	5,480

**SUSPENDED PIPES**

DIAMETER (in)		WEIGHT (lbs/ft)	DEPTH(ft)	
O.D.	I.D.		MEASURED	TRUE VERTICAL
5.500	4.950	15.5	5,480	5,480

**Float Collar set @** 5,440 ft  
**Mud Density** 8.40 ppg  
**Mud Type** Water Based  
**Est. Static Temp.** 138 ° F  
**Est. Circ. Temp.** 110 ° F

**VOLUME CALCULATIONS**

342 ft x 0.1926 cf/ft with 0 % excess = 65.9 cf  
 3,158 ft x 0.1733 cf/ft with 25 % excess = 683.9 cf  
 2,585 ft x 0.1733 cf/ft with 25 % excess = 559.8 cf  
 40 ft x 0.1336 cf/ft with 0 % excess = 5.3 cf (inside pipe)  
**TOTAL SLURRY VOLUME** = 1315.0 cf  
 = 234 bbls

Confirm well data with customer representative prior to pumping.

Operator Name: Berry Petroleum Co  
 Well Name: LC TRIBAL 14-4-56  
 Job Description: Cement 5-1/2 inch Production Casing  
 Date: February 21, 2007



Proposal No: 179967803A

**FLUID SPECIFICATIONS**

Pre-Flush 10.0 bbls Fresh Water @ 8.34 ppg  
 Spacer 10.0 bbls KCl Water @ 8.4 ppg  
 Spacer 20.0 bbls Fresh Water @ 8.34 ppg

<u>FLUID</u>	<u>VOLUME CU-FT</u>	<u>VOLUME FACTOR</u>	<u>AMOUNT AND TYPE OF CEMENT</u>
Lead Slurry	750	/ 3.4	= 219 sacks Premium Lite II Cement + 0.05 lbs/sack Static Free + 3 lbs/sack CSE + 3% bwow Potassium Chloride + 0.25 lbs/sack Cello Flake + 2 lbs/sack Kol Seal + 0.002 gps FP-6L + 10% bwoc Bentonite + 0.5% bwoc Sodium Metasilicate + 201.6% Fresh Water
Tail Slurry	565	/ 1.2	= 447 sacks (50:50) Poz (Fly Ash):Class G Cement + 0.05 lbs/sack Static Free + 3% bwow Potassium Chloride + 0.5% bwoc EC-1 + 0.25 lbs/sack Cello Flake + 0.002 gps FP-6L + 2% bwoc Bentonite + 0.3% bwoc Sodium Metasilicate + 56.3% Fresh Water
Displacement			143.9 bbls Fresh Water @ 8.34 ppg

**CEMENT PROPERTIES**

	<b>SLURRY NO. 1</b>	<b>SLURRY NO. 2</b>
Slurry Weight (ppg)	11.00	14.30
Slurry Yield (cf/sack)	3.43	1.27
Amount of Mix Water (gps)	21.03	5.67
Amount of Mix Fluid (gps)	21.03	5.67
Estimated Pumping Time - 70 BC (HH:MM)	4:30	3:30
<b>COMPRESSIVE STRENGTH</b>		
24 hrs @ 144 ° F (psi)		2300
72 hrs @ 144 ° F (psi)		2550

Compressive strengths and thickening times are estimates only. Final laboratory testing will determine retarder loadings, if necessary.

Slurry volumes are based off of 25% excess with gauge hole.



## CONDITIONS

**BJ Services' performance of services and sale of materials is expressly conditioned upon the applicability of the Terms and Conditions contained in the current BJ Services Price Book.** The Terms and Conditions include, among other things, an indemnity in favor of BJ Services from Customer for damage to the well bore, reservoir damage, loss of the hole, blowouts and loss of control of the well, even if caused by the negligence or other fault of BJ Services. The Terms and Conditions also limit the warranties provided by the BJ Services and the remedies to which Customer may be entitled in the event of a breach of warranty by BJ Services. For these reasons, we strongly recommend that you carefully review a copy of the Terms and Conditions. **If you do not have a copy of the BJ Services Price Book, you can view the Terms and Conditions on BJ Services Web Site, [www.bjservices.com](http://www.bjservices.com).** By requesting that BJ Services perform the services described herein, Customer acknowledges that such Terms and Conditions are applicable to the services. Further, by requesting the services, Customer warrants that its representative on the well location or other service site will be fully authorized to acknowledge such Terms and Conditions by executing a Field Receipt or other document presented by BJ Services containing such Terms and Conditions.

In the event that Customer and BJ Services have executed a Master Services Agreement covering the work to be performed, such Master Services Agreement shall govern in place of the Terms and Conditions. If you are interested in entering into Master Services Agreement with BJ Services, please contact us through the "Go BJ" button on the BJ Services Web Site.

Operator Name: Berry Petroleum Co  
Well Name: LC TRIBAL 14-4-56  
Date: February 21, 2007



Proposal No: 179967803A

## PRODUCT DESCRIPTIONS

### **Bentonite**

Commonly called gel, it is a clay material used as a cement extender and to control excessive free water.

### **CSE**

Compressive Strength Enhancer - Fumed Silica. An additive which contributes to low density, high compressive strength development of cement slurries at all temperature ranges. This material also controls free water

### **Cello Flake**

Graded (3/8 to 3/4 inch) cellophane flakes used as a lost circulation material.

### **Class G Cement**

Intended for use as a basic cement from surface to 8000 ft as manufactured, or can be used with accelerators and retarders to cover a wide range of well depths and temperatures.

### **EC-1**

A proprietary product that provides expansive properties and improves bonding at low to moderate temperatures.

### **FP-6L**

A clear liquid that decreases foaming in slurries during mixing.

### **Kol Seal**

A granular, lightweight material (specific gravity of 1.3) used to control lost circulation in zones of natural and induced fractures, cavities and high permeability.

### **Potassium Chloride**

A granular salt used to reduce clay swelling caused by water-base stimulation fluids.

### **Potassium Chloride**

A granular salt used to reduce clay swelling caused by water-base cementing fluids.

### **Poz (Fly Ash)**

A synthetic pozzolan, (primarily Silicon Dioxide). When blended with cement, Pozzolan can be used to create lightweight cement slurries used as either a filler slurry or a sulfate resistant completion cement.

### **Premium Lite II Cement**

Premium Lite II is a high-yield, cost effective lightweight cement blend that provides exceptional compressive strength and reduced permeability when mixed at low slurry weights.

### **Sodium Metasilicate**

An accelerator used to decrease the thickening time of cement slurries.

### **Sodium Metasilicate**

An extender used to produce an economical, low density cement slurry.

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Date:** February 21, 2007



**Proposal No:** 179967803A

---

**PRODUCT DESCRIPTIONS (Continued)**

**Static Free**

An anti-static additive used to prevent air entrainment due to agglomerated particles. Can be used in Cementing and Fracturing operations to aid in the flow of dry materials.

**Operator Name:** Berry Petroleum Co  
**Well Name:** LC TRIBAL 14-4-56  
**Date:** February 21, 2007



**Proposal No:** 179967803A

---

**End of Report**

Berry Petroleum Company,  
Lake Canyon Tribal (LCT) #14-4-56 well:  
A Cultural Resource Inventory for a well pad,  
its access and pipeline,  
Uintah-Ouray Ute Reservation,  
Duchesne County, Utah

By  
James A. Truesdale

James A. Truesdale  
Principle Investigator

Prepared For  
Berry Petroleum Co.  
4000 South 4028 West  
Roosevelt, Utah  
84066

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

Utah Project # U-06-AY-1489(s)

December 13, 2006

# Table of Contents

Table of Contents	i
List of Figures	i
Introduction	1
File Search	1
Environment	3
Lake Canyon Tribal (LCT) #14-4-56	3
Field Methods	5
Results	6
Recommendations	7
References Cited	8

## List of Figures

- Figure 1. Location of the Berry Petroleum Co.'s proposed Lake Canyon (LC) Tribal #14-4-56 well, its access and pipeline 7.5'/1962 USGS quadrangle map Buck Knoll, Duchesne County, Utah. - - - - - 2
- Figure 2. View to northeast at the proposed Lake Canyon Tribal (LCT) #14-4-56 well centerstake and well pad area. - - - - - 4

## Introduction

An Independent Archaeologist (AIA) was contacted by a representative of Berry Petroleum Co., to conduct a cultural resources investigation of the proposed Lake Canyon Tribal (LCT) #14-4-56 well, its access and pipeline. The location of the project area is in the SE/NW 1/4 of Section 4, T5S, R6W, Duchesne County, Utah (Figure 1).

The proposed LCT #5-4-56 well's centerstake (Alternate #1) footage is 589' FSL and 1992' FWL. The Universal Transverse Mercator (UTM) centroid coordinate for the proposed LC Tribal #3-5-56 well centerstake in Zone 12, North American Datum (NAD) 83 is 05/36/945.15 mE 44/35/593.88 mN +5m.

The proposed access and pipeline is an existing oil and gas field service road and pipeline that trends through the proposed LCT #14-4-56 well pad.

The land surface in Section 4 of Township 5 South Range 6 West is administered by the Utah Division of Wildlife Resources while the minerals are administered by the Bureau of Indian Affairs, Phoenix Area Office, Uintah-Ouray Agency and the Uintah-Ouray Ute Tribe, Fort Duchesne, Utah. A total of 10 acres (10 block, 0 linear) was surveyed. Fieldwork was authorized through an access permit issued by the Energy and Minerals Resource Division of the Uintah-Ouray Ute tribe. The fieldwork was conducted on October 16 and 17, and October 24 through 27, 2006 by AIA archaeologist James Truesdale. All the field notes and maps are located in the AIA office in Laramie, Wyoming.

## File Search

A GIS file search was conducted at the Utah Division of State History (UDSH), Antiquities Section, Records Division in October 13 of 2006. In addition, AIA's USGS quadrangle Buck Knoll, Duchesne SW, Duchesne SE, Anthro Mountain and Anthro Mountain NE base maps were updated from UDSH Records division Buck Knoll, Duchesne SW, Duchesne SE, Anthro Mountain and Anthro Mountain NE base maps in November of 2003 and again on February 2, 2004. The UDSH SHPO GIS file search reported that no previous projects had been conducted in the general area (Section 4, T5S R6W). No cultural resources (sites and/or isolates) have been recorded in the general area (Section 4, T5S R6W). No projects and/or cultural materials (sites, isolates) have been previously recorded in the immediate project area.

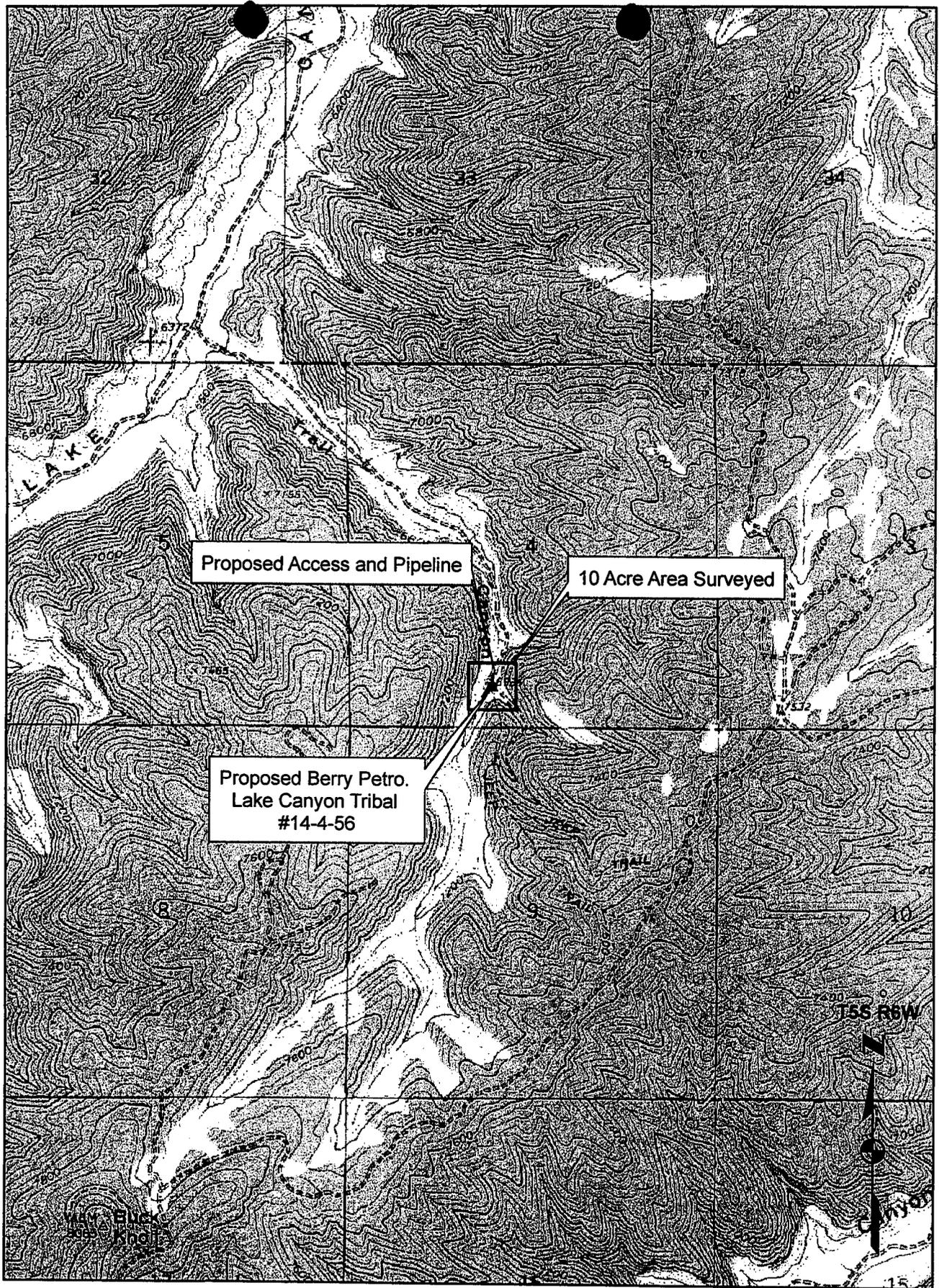


Figure #1. Location of the proposed Berry Petroleum Lake Canyon Unit #14-4-56 its access and pipeline on USGS 7/5' Quadrangle map Buck Knoll Duchesne County, Utah.

## Environment

Physiographically, the project is located in the Uinta Basin, approximately 8 miles southwest of Duchesne, Utah. The Uinta Basin is structurally the lowest part of the Colorado Plateau geographical province (Thornbury 1965:425). The Uinta Basin is a large, relatively flat, bowl shaped, east-west asymmetrical syncline near the base of the Uinta Mountains (Stokes 1986:231). The topography is characteristic of sloping surfaces which incline northward and are mainly dip slopes on the harder layers of Green River and Uinta Formations. The terrain is characterized as having steep ridges and/or buttes of Uintah Formation sandstones and clays dissected by seasonal drainages and washes with wide flat alluvial plains. The basin contains a thick section of more than 9000 feet (2743.9 m) of early Tertiary rocks (Childs 1950). These rocks are mainly Paleocene and Eocene in age and consist of sandstone, clay and shale lacustrine, fluvial, and deltaic continental deposits, most famous of which are the lacustrine Green River Beds.

The project area is located Trail Canyon which is a small tributary of Lake Canyon. Lake Canyon is a long narrow south to north trending canyon that eventually drains into the Strawberry River which is approximately 5 miles to the north. The upland hills, benches and ridges above Lake Canyon is dominated by exposed and eroding sandstone, clay and shale bedrock. The exposed bedrock in these upland ridges is covered with aeolian sand that may reach a depth of over 50 to 100 centimeters in area.

Vegetation in the project area is characteristic of a Pinon/Juniper community. Species observed in the project area include; Pinyon pine (Pinus Edulis), juniper (Juniperus Osteosperma), curl-leaf mountain mahogany (Cercocarpus ledifolius), shadscale (Atriplex confertifolia), sand sage, (Artemesia filifolia), saltbush (Atriplex nuttallii), rabbitbrush (Chrysothamnus viscidiflorus), winterfat (Eurotia lanata), greasewood (Sarcobatus baileyi), Indian ricegrass (Oryzopsis hymenoides), desert needlegrass (Stipa speciosa), wild buckwheat (Eriogonum ovalifolium), silky lupine (Lupinus sericeus), desert globemallow (Bromus tectorum), sky rocket (Gilia aggregata), Tansy leaved evening primrose (Oenothera tanacetifolia), Rydberg's Penstemon (Penstemon rydbergi), Stemless Hymenoxys (Hymenoxys acaulis), Sege Lily (Calochortus nuttallii), peppergrass (Lepidium perfoliatum), Russian thistle (Salsola kali), Simpson's Hedgehog cactus (Pediocactus simpsonii) and prickly pear cactus (Opuntia spp.).

### Lake Canyon Tribal (LCT) #14-4-56

The Berry Petroleum Co.'s proposed Lake Canyon Tribal (LCT) #14-4-56 well is situated along in the bottom of the small narrow

Trail Canyon (Figure 2). Trail Canyon is a small narrow southeast to northwest trending canyon that is a tributary along the eastern side of Lake Canyon. The well is also located along the bottom of the talus slope of a steep canyon wall in the bottom of Trail Canyon (Figure 2). The existing Trail Canyon access road trends through the existing well pad. The vegetation on the well is dominated by low sagebrush/bunchgrasses community while the surrounding ridges are dominated by a Pinyon/juniper forest with an understory of mountain mahogany, big sagebrush, budsage, buckwheat, yucca, prickly pear cactus and bunchgrasses (wheatgrass, Indian rice grass). A low sagebrush community consisting of sagebrush, saltbush, tall rabbitbrush, greasewood, bunchgrasses and prickly pear cactus can be found in the open areas along the roads in the broad open flats in bottom of Lake Canyon. Sediments on the proposed well have been partially disturbed by the construction of the road, its cyclic maintenance. However, undisturbed sediments surrounding the well pad consist of colluvial deposits. These undisturbed colluvial deposits consist of moderately deep (<10 to 150 cm), poorly sorted, loosely compacted, tan to light brown, sandy clay loam, mixed with small

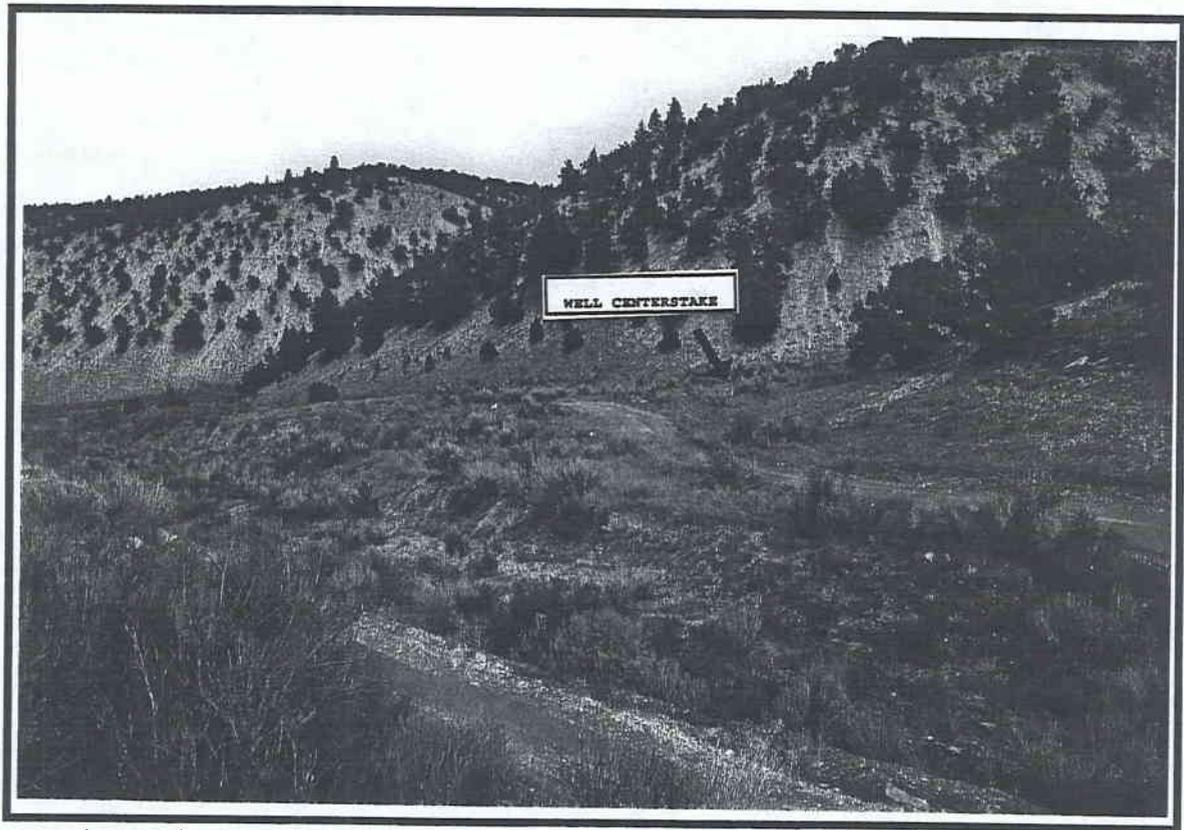


Figure 2. View to northeast at the proposed Lake Canyon Tribal (LCT) #14-4-56 well centerstake and well pad area.

to medium sized flat, angular pieces of sandstone, clay and shale.

The elevation is 6924.08 feet (2111 m) AMSL.

The proposed access and pipeline is an existing oil and gas field service road and pipeline that trend northwest to southeast through the proposed well pad. This existing road is the Trail Canyon access road. Undisturbed sediments on either side of the road are colluvial in nature and consist of shallow (<5 to 25 cm), poorly sorted, loosely compacted, tan to light brown, sandy clay loam mixed with small to medium sized angular pieces of Uinta formation sandstone, clay and shale. Exposures of sandstone, clay and shale bedrock can be found eroding from the canyon talus slopes.

The surrounding landscape exhibits exposures of relatively thick ledges of sandstone with thinner layers of clay and shale. The surrounding vegetation is dominated by a Pinyon/juniper community with a understory of mountain mahogany, low sagebrush, yucca, bunchgrasses along the hill and ridge slopes, and low sagebrush community in the ridge top flats and open parks.

### Field Methods

A total of 10 acres was surveyed around the centerstake of the proposed LCT #14-4-56 well location to allow for relocation of the pad if necessary. The survey was accomplished by walking transects spaced no more than 15 meters apart. The proposed access and pipeline is an existing road and pipeline that trend through the LCT #14-4-56 well pad. Therefore, the proposed access and pipeline are located within the 10 acre area surveyed around the proposed LCT #14-4-56 well centerstake. Thus, a total of 0 linear acres were surveyed.

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

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

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

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

### Results

A total of 10 acres (10 block, 0 linear) were surveyed for cultural resources within and around the proposed Berry Petroleum Co. Lake Canyon Tribal (LCT) #14-4-56 and along its access and pipeline. No cultural resources (sites, isolates) were recorded during the survey.

Modern trash consisting on an old rusted barbecue, plastic oil cans, and modern fire pit can be found adjacent immediately northeast of the existing road. The fire pit contains fire cracked road, chunks of charcoal, aluminum foil, melted plastic and clear glass.

Modern trash (plastic soda pop, oil and antifreeze bottles, clear, green, and brown bottle glass, sanitary food cans, foam insulation and miscellaneous metal scraps) can be found throughout the Lake Canyon Oil and Gas Field Area and along its service roads.

### Recommendations

A total of 10 acres (10 block, 0 linear) were surveyed for cultural resources within and around the proposed Berry Petroleum Co. Lake Canyon Tribal (LCT) #14-4-56 and along its access and pipeline. No cultural resources (sites, isolates) were recorded during the survey.

Modern trash (plastic soda pop, oil and antifreeze bottles, clear, green, and brown bottle glass, sanitary food cans, foam

insulation, aluminum foil and miscellaneous metal scraps) can be found throughout the Lake Canyon Oil and Gas Field Area and along its service roads.

Sediments on and surrounding the proposed well pad and along its access and pipeline are colluvial in nature and shallow (<5 to 25 cm). In addition, the sediments on the proposed well pad and along its access and pipeline have been disturbed by construction of the existing road that trends through the proposed well pad. Thus, the possibility of buried and intact cultural materials on and surrounding the proposed well pad or along its access and pipeline is low. Therefore, no additional archaeological work is necessary and clearance is recommended for the construction of the proposed Lake Canyon Tribal (LCT) #14-4-56 well pad, its access and pipeline.

REFERENCES CITED

Childs, O.E.

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

Stokes, William Lee

1986 Geology of Utah. Contributions by Utah Museum of Natural History, and the Utah Geological and Mineral Survey Department of Natural Resources. Utah Museum of Natural History, Occasional Papers, Number 6.

Thornbury, William D.

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

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

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



# BERRY PETROLEUM COMPANY

LC FEE #14-4-56

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 4, T5S, R6W, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

LOCATION PHOTOS

12 21 06  
MONTH DAY YEAR

PHOTO

TAKEN BY: J.W.

DRAWN BY: J.L.G.

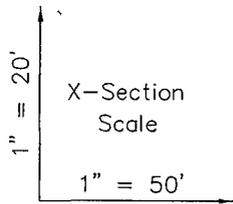
REVISED: 00-00-00



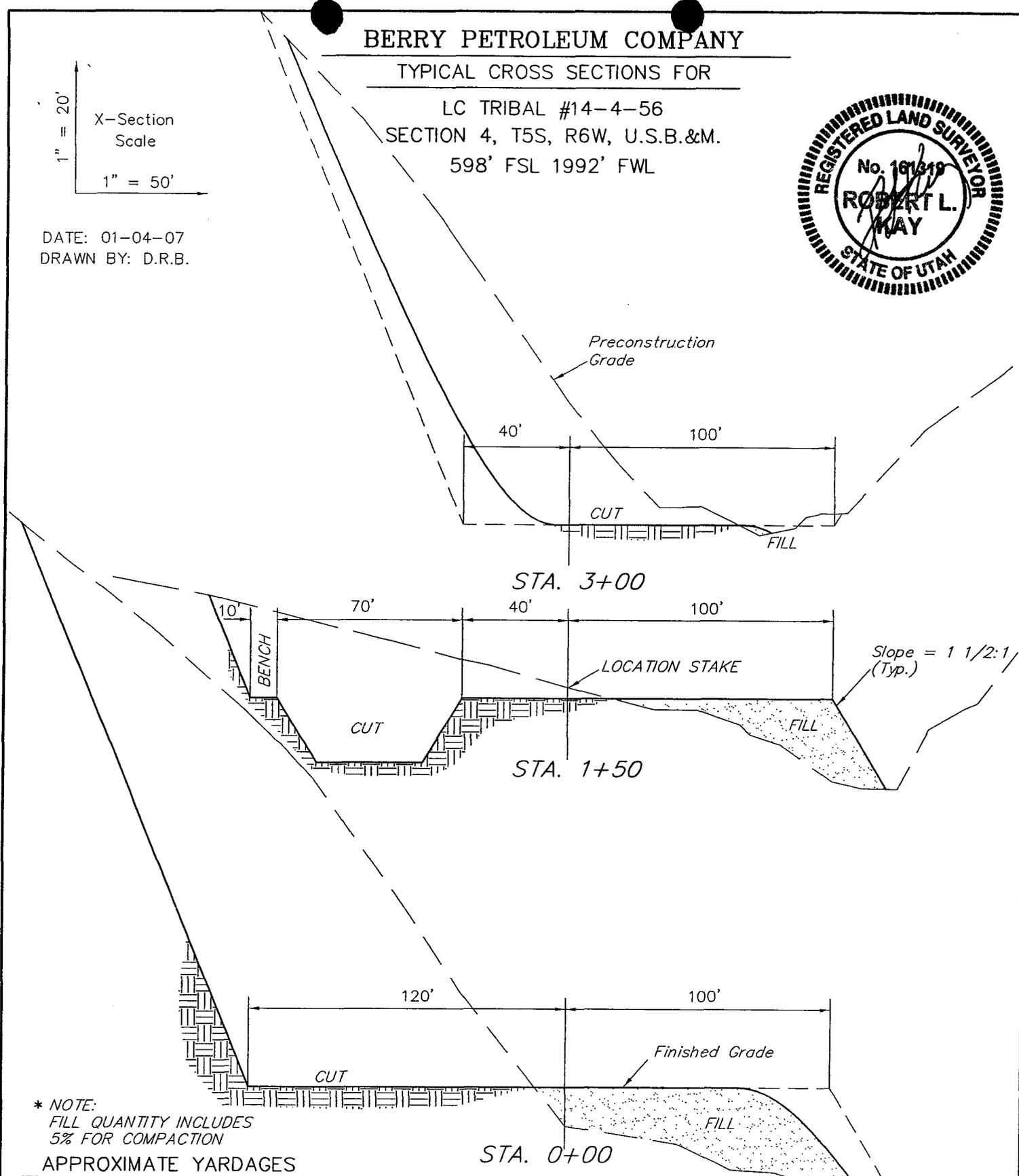
# BERRY PETROLEUM COMPANY

## TYPICAL CROSS SECTIONS FOR

LC TRIBAL #14-4-56  
SECTION 4, T5S, R6W, U.S.B.&M.  
598' FSL 1992' FWL



DATE: 01-04-07  
DRAWN BY: D.R.B.



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

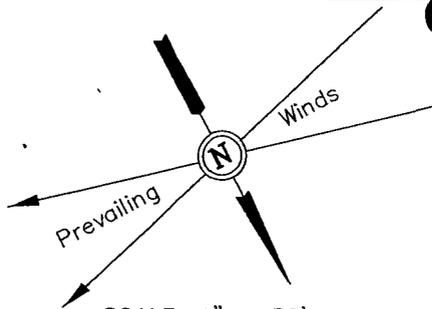
(12") Topsoil Stripping	= 4,220 Cu. Yds.
Remaining Location	= 38,100 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 42,320 CU.YDS.</b>
<b>FILL</b>	<b>= 8,410 CU.YDS.</b>

EXCESS MATERIAL	= 33,910 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,920 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 27,990 Cu. Yds.

# BERRY PETROLEUM COMPANY

## LOCATION LAYOUT FOR

LC TRIBAL #14-4-56  
SECTION 4, T5S, R6W, U.S.B.&M.  
598' FSL 1992' FWL



SCALE: 1" = 50'  
DATE: 01-04-07  
DRAWN BY: D.R.B.

C-41.6'  
El. 71.7'

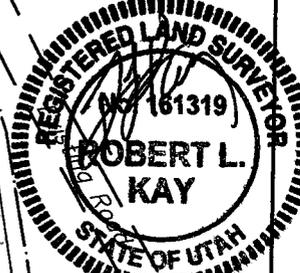
F-18.7'  
El. 48.8'

C-1.8'  
El. 31.9'

Approx.  
Top of  
Cut Slope

CUT SLOPE 1:1

Sta. 3+00



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



C-14.1'  
El. 44.2'

C-21.2'  
El. 51.3'

PIPE RACKS

C-1.8'  
El. 31.9'

Approx.  
Toe of  
Fill Slope

Sta. 1+50

F-12.7'  
El. 17.4'

Existing  
Drainage

180'

CLOSED SYSTEM

30'

40'

C-6.0'  
El. 36.1'

MUD TANKS

150'

MUD SHED

HOPPER

POWER

TOOLS

FUEL



DOG HOUSE

RIG

WATER

PUMP

TRAILER

TOILET

FUEL

STORAGE  
TANK

Sta. 0+50

Sta. 0+00

CUT SLOPE 1:1

C-54.2'  
El. 84.3'

C-14.5'  
El. 44.6'

F-5.9'  
El. 24.2'

F-15.3'  
El. 14.8'

CONSTRUCT  
DIVERSION  
DITCH

Existing Access  
Road

Elev. Ungraded Ground at Location Stake = 6931.9'

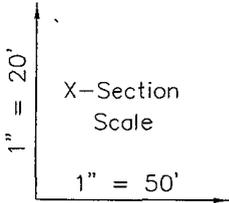
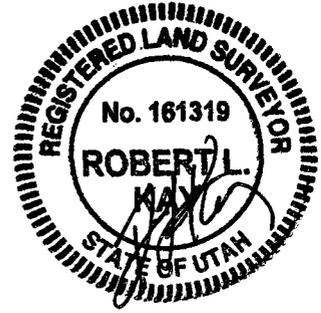
Elev. Graded Ground at Location Stake = 6930.1'

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

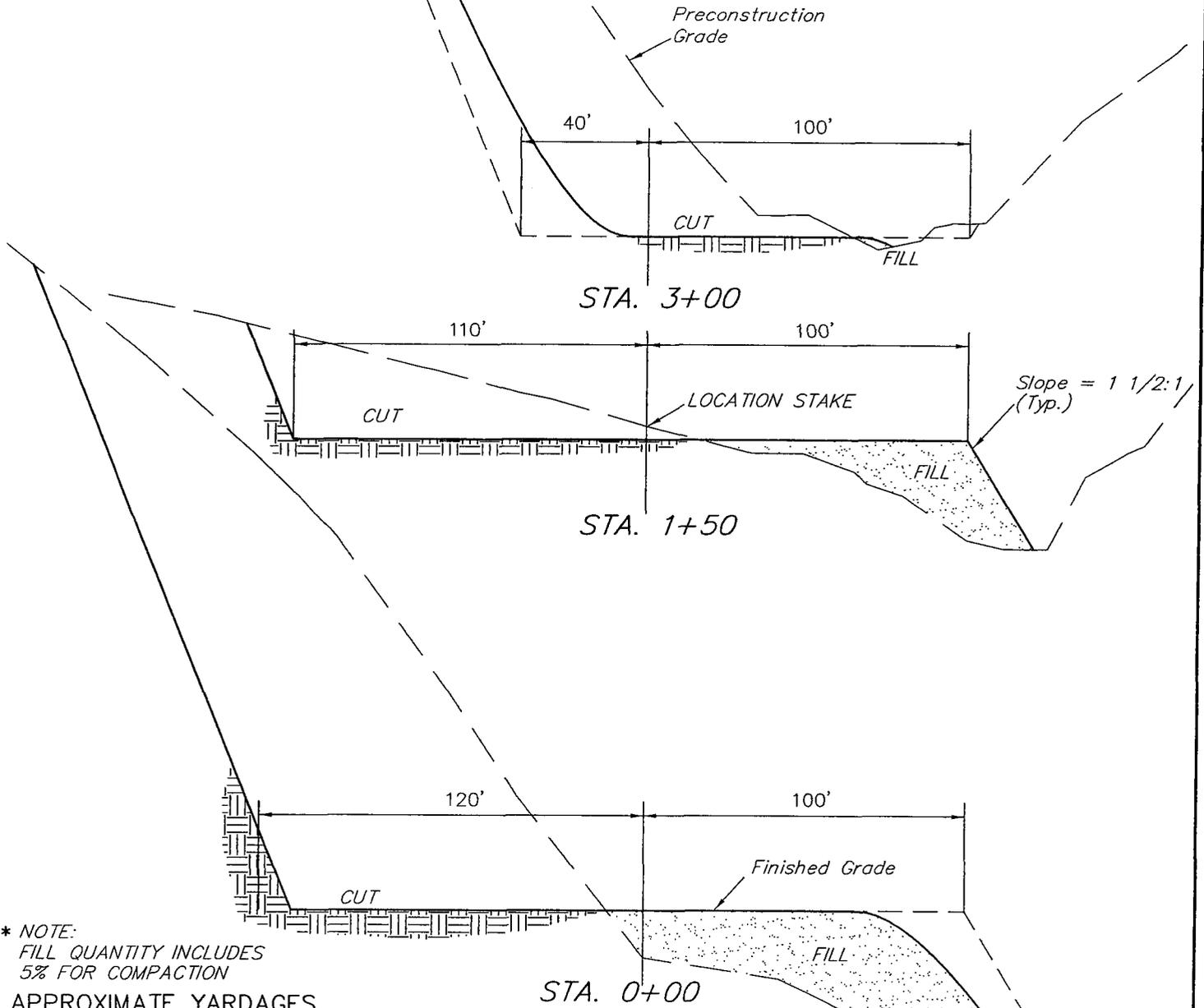
**BERRY PETROLEUM COMPANY**

TYPICAL CROSS SECTIONS FOR

LC TRIBAL #14-4-56  
SECTION 4, T5S, R6W, U.S.B.&M.  
598' FSL 1992' FWL



DATE: 01-04-07  
DRAWN BY: D.R.B.



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

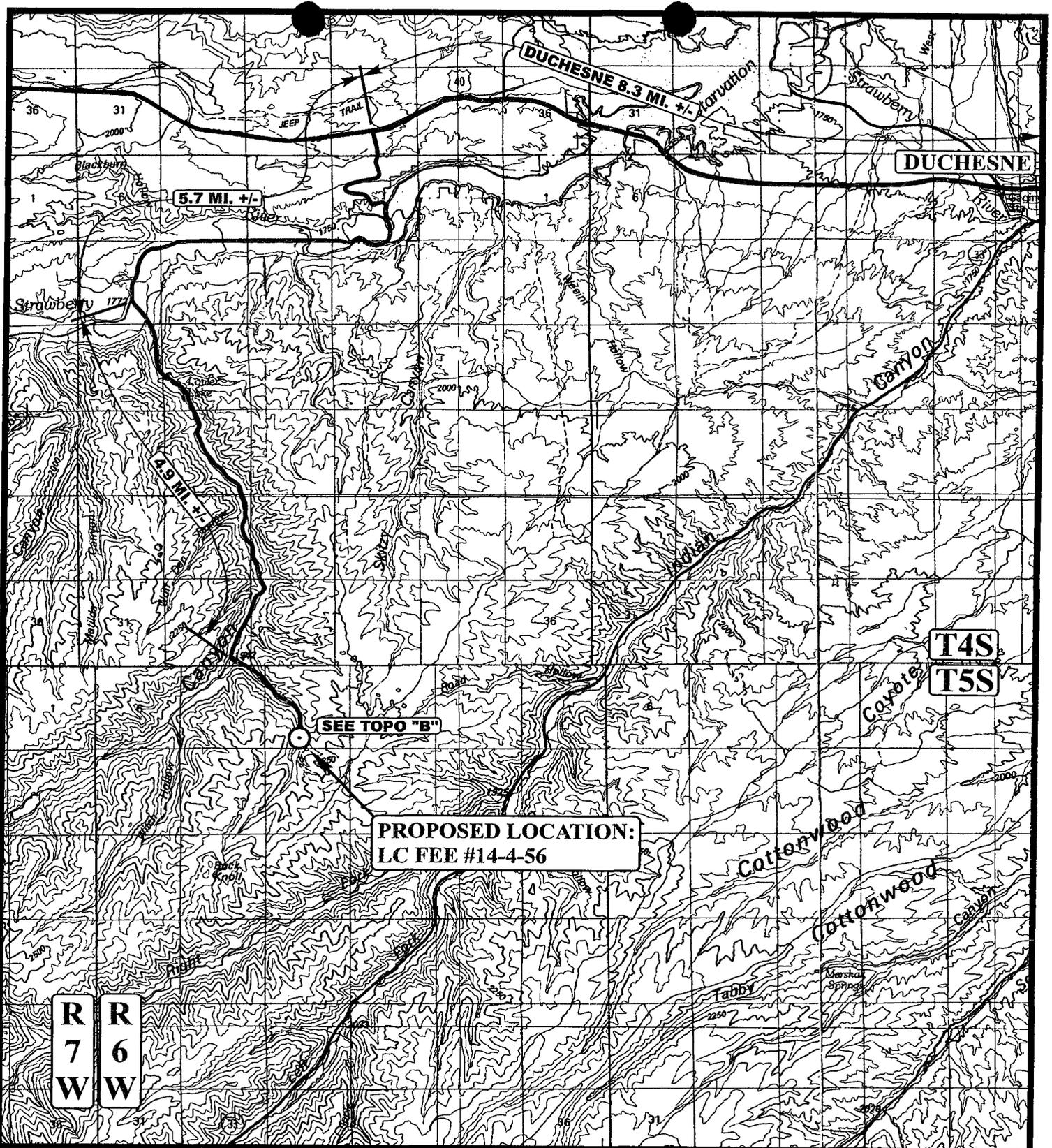
**APPROXIMATE YARDAGES**

(12") Topsoil Stripping	= 3,810 Cu. Yds.
Remaining Location	= 28,160 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 31,970 CU.YDS.</b>
<b>FILL</b>	<b>= 8,410 CU.YDS.</b>

EXCESS MATERIAL	= 23,560 Cu. Yds.
Topsoil	= 3,810 Cu. Yds.

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

EXCESS UNBALANCE = 19,750 Cu. Yds.  
(After Interim Rehabilitation)



**LEGEND:**

○ PROPOSED LOCATION

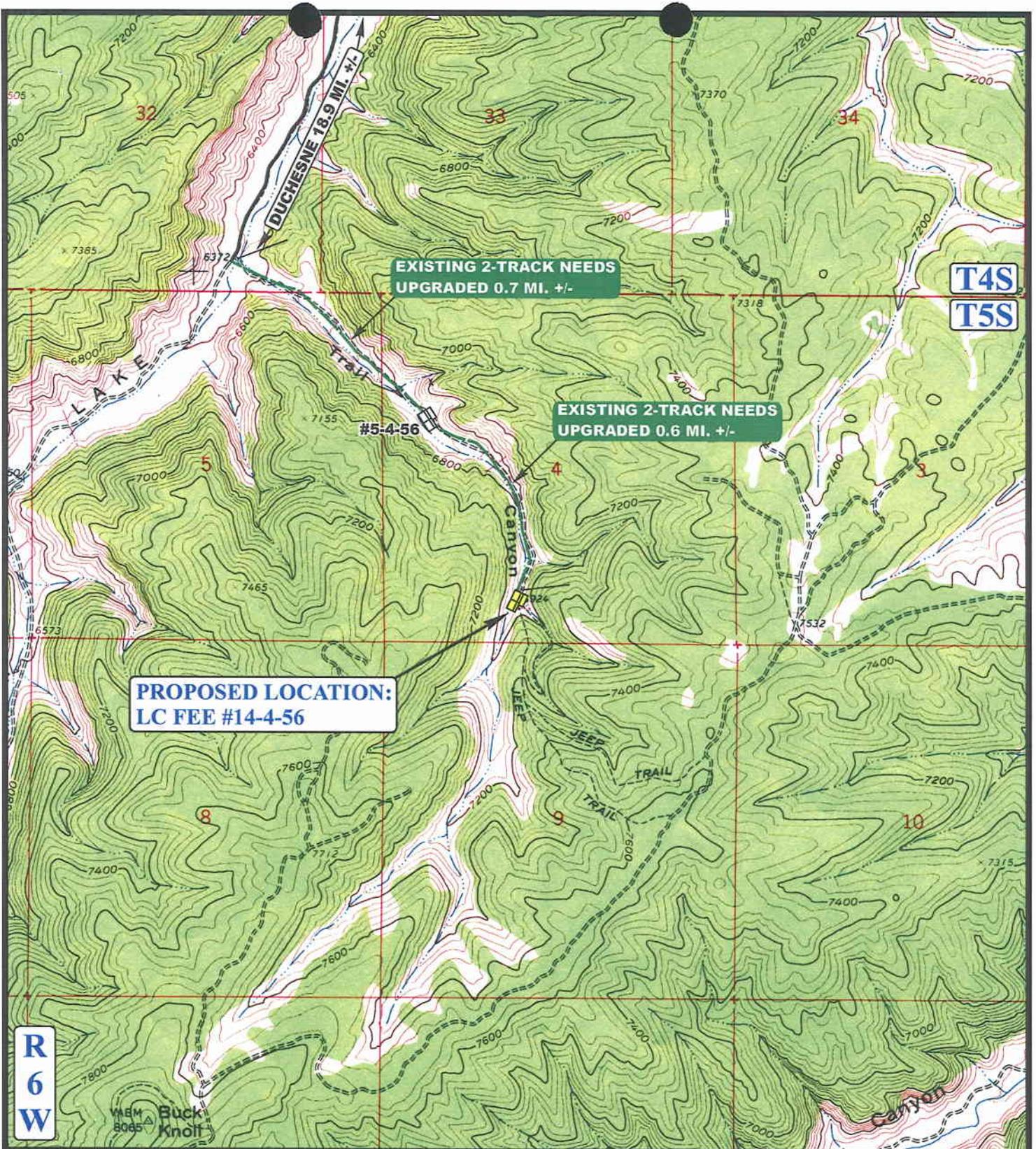
**U&S** Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**BERRY PETROLEUM COMPANY**

LC FEE #14-4-56  
 SECTION 4, T5S, R6W, U.S.B.&M  
 598' FSL 1992' FWL

**TOPOGRAPHIC** 12 21 06  
 MAP MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: J.L.G. REVISED: 2-23-07





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD

**BERRY PETROLEUM COMPANY**

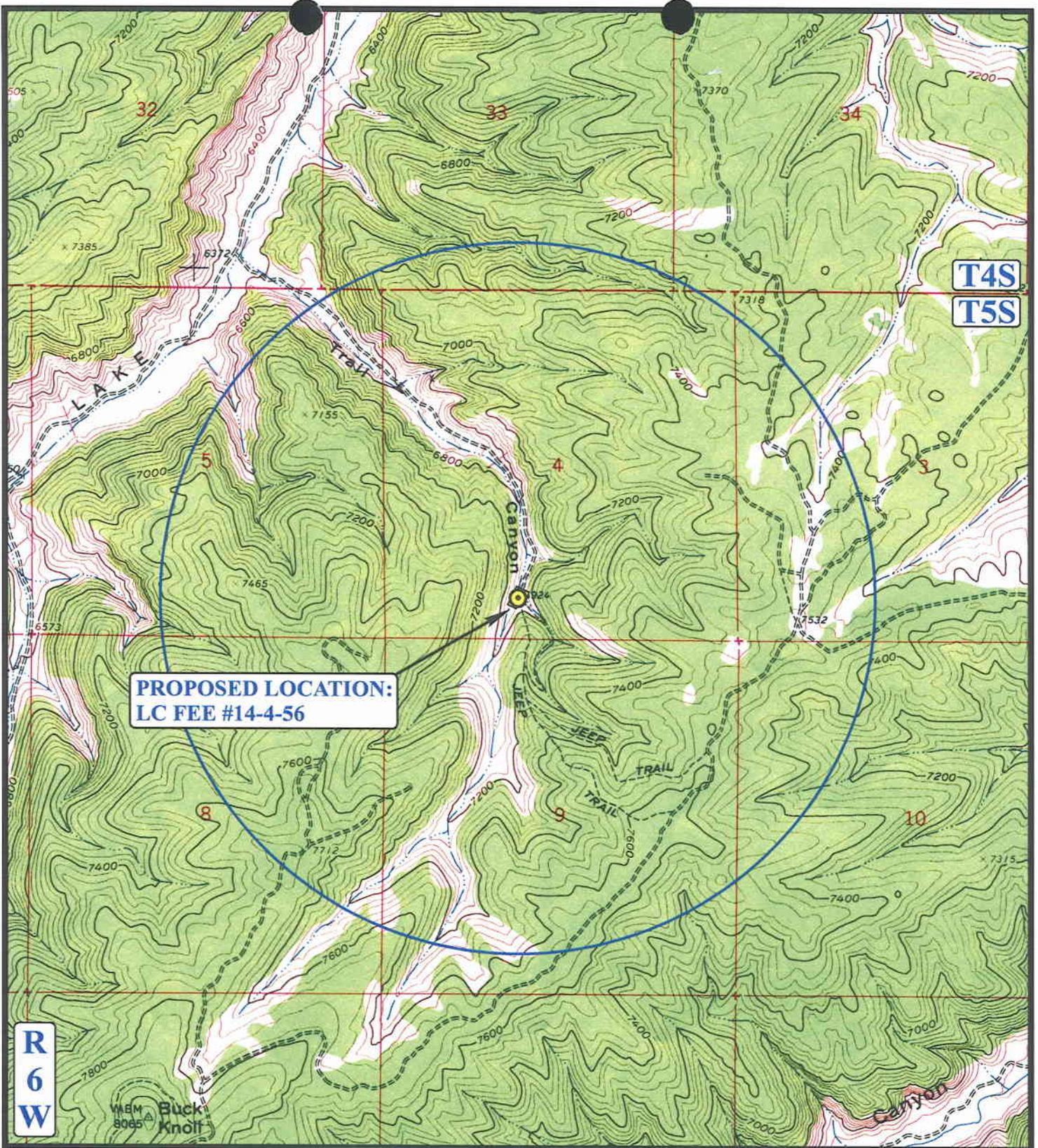
LC FEE #14-4-56  
 SECTION 4, T5S, R6W, U.S.B.&M  
 598' FSL 1992' FWL

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



**TOPOGRAPHIC MAP** 12 21 06  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 2-23-07

**B**  
 TOPO



**PROPOSED LOCATION:  
LC FEE #14-4-56**

**R  
6  
W**

**T4S  
T5S**

**LEGEND:**

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

**BERRY PETROLEUM COMPANY**

**LC FEE #14-4-56  
SECTION 4, T5S, R6W, U.S.B.&M  
598' FSL 1992' FWL**



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



**TOPOGRAPHIC  
MAP**

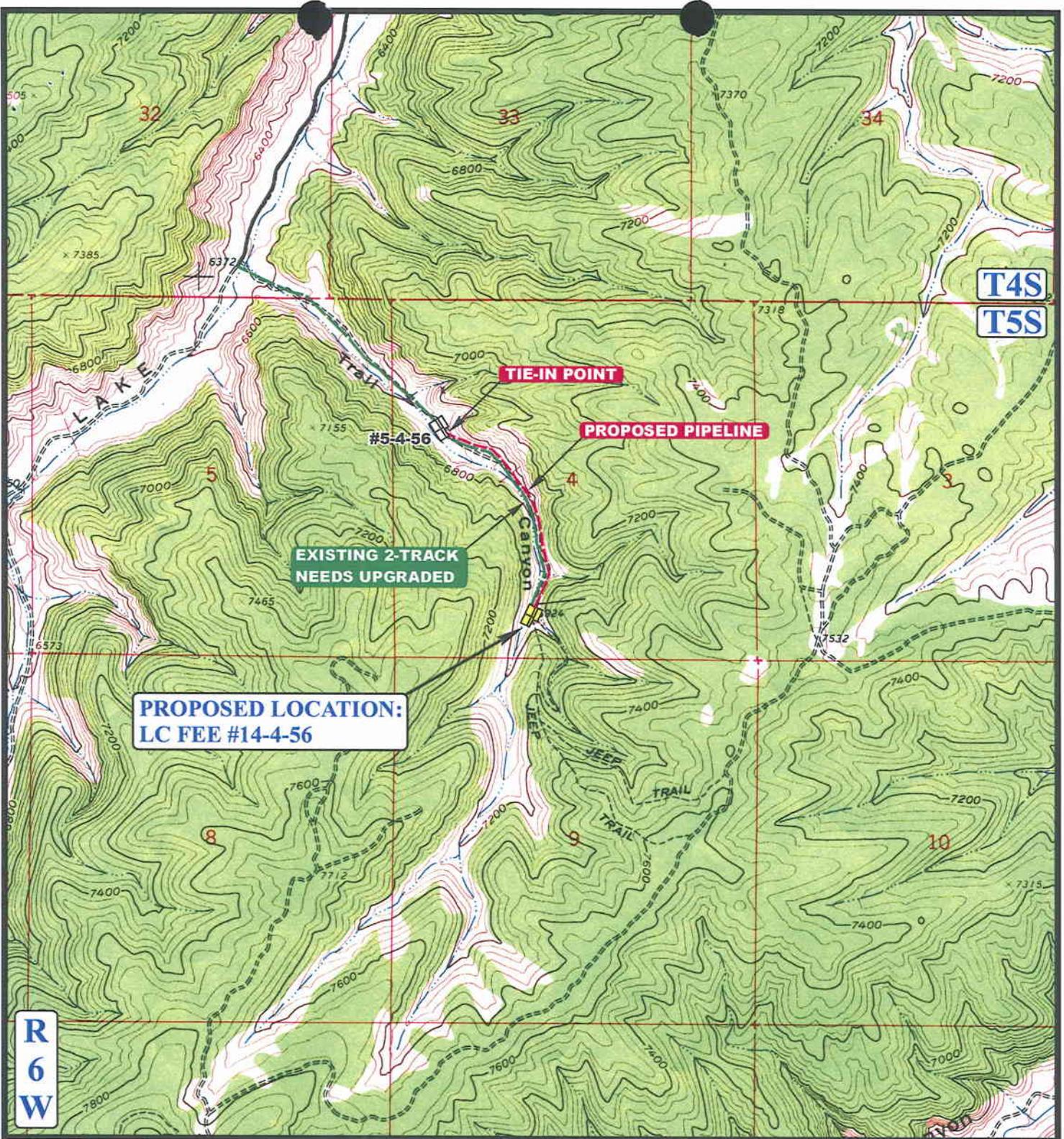
**12 21 06**  
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: J.L.G.

REVISED: 2-23-07





**APPROXIMATE TOTAL PIPELINE DISTANCE = 3,094' +/-**

**LEGEND:**

- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED ACCESS



**BERRY PETROLEUM COMPANY**

**LC FEE #14-4-56  
SECTION 4, T5S, R6W, U.S.B.&M  
598' FSL 1992' FWL**



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

**TOPOGRAPHIC MAP** **12 21 06**  
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.L.G. REVISED: 2-23-07



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/02/2007

API NO. ASSIGNED: 43-013-33578

WELL NAME: LC TRIBAL 14-4-56

OPERATOR: BERRY PETROLEUM COMPANY ( N2480 )

CONTACT: SHELLY CROZIER

PHONE NUMBER: 435-722-1325

PROPOSED LOCATION:

SESW 04 050S 060W

SURFACE: 0598 FSL 1992 FWL

BOTTOM: 0598 FSL 1992 FWL

COUNTY: DUCHESNE

LATITUDE: 40.06987 LONGITUDE: -110.5662

UTM SURF EASTINGS: 536990 NORTHINGS: 4435392

FIELD NAME: UNDESIGNATED ( 2 )

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

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-5500

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. RLB0005651 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. 43-11041 )
- RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: \_\_\_\_\_
- 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:

*Needs Permit (03-20-07)*

STIPULATIONS:

- 1- Federal Approval*
- 2- Spacing Strip*
- 3- STATEMENT OF BASIS*



**ALTAMONT FIELD**

T4S R6W

T5S R6W

OPERATOR: BERRY PETRO CO (N2480)

SEC: 4,5 T.5S R. 6W

FIELD: UNDESIGNATED (002)

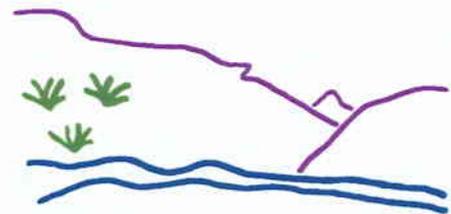
COUNTY: DUCHESNE

SPACING: R649-3-2 / GENERAL SITING

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

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

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



Utah Oil Gas and Mining



PREPARED BY: DIANA MASON  
DATE: 8-MARCH-2007

# Application for Permit to Drill

## Statement of Basis

3/22/2007

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Ownr</b>	<b>CBM</b>
286	43-013-33578-00-00		OW	P	No
<b>Operator</b>	BERRY PETROLEUM COMPANY		<b>Surface Owner-APD</b>		
<b>Well Name</b>	LC TRIBAL 14-4-56	<b>Unit</b>			
<b>Field</b>	UNDESIGNATED	<b>Type of Work</b>			
<b>Location</b>	SESW 4 5S 6W U 598 FSL 1992 FWL	GPS Coord (UTM) 536990E 4435392N			

### Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Ute Tribe. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill

3/21/2007

**APD Evaluator**

**Date / Time**

### Surface Statement of Basis

The general area is within the Lake Canyon drainage in a side drainage named Trail Canyon. Lake Canyon is named for a reservoir lake located in the canyon bottom approximately 8 road miles up canyon from the confluence of Lake Canyon drainage with the Strawberry River. The City of Duchesne is approximately 14 road miles to the east of the road junction leading to Lake Canyon. Access to the area is by State of Utah and Duchesne County paved highways to the Lake Canyon graveled Duchesne County Road. An existing single-track private road has been constructed up Trail Canyon. The Lake Canyon County road is at times narrow and crosses one bridge, which the County and oil companies are planning to replace.

Topography in the Lake Canyon area consists of a wide-bottomed canyon rimmed by excessively steep or vertical sidewall cliffs. Outwash plains or deposits of till are common along both sides of the canyon. A few narrow bottomed side drainages exist and have similar steep sides. A perennial stream exists and flows into the Lake originating at springs approximately 1-1/2 miles upstream. Overflow from the lake subs into the bottom of the drainage a short distance below the lake, depending on the amount of flow for the particular year and time of the year. Seeps and small springs infrequently occur within the drainage.

The proposed LC Tribal #14-4-56 oil well is in the bottom Trail Canyon, a side draw of Lake Canyon. A single lane low standard private road exists. Widening of this road will be required. The site is at the mouth of a side draw of Trail Canyon where the bottom slightly widens. Adequate space is not available for constructing a well pad without cutting the steep slopes especially on the east side of the canyon and filling most of the bottom. As shown on the Location Layout Plan the cut on the northeast corner of the pad (corner 4) probable will not reach the natural angle of repose and continue to un-ravel to the top of the ridge. Rounding of this corner and using a smaller area for the tanks of a closed loop system is necessary. An adequate diversion can be constructed around the location to the north for any summer flows down this side draw. Rounding the corner of the location at corner 8 is also necessary. This should be done so no excavation intersects the side road to Mr. Pennington's property. This will also allow drainage to occur down the main draw with a diversion ditch.

Floyd Bartlett

3/20/2007

**Onsite Evaluator**

**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Pits	A closed loop mud system is required.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BERRY PETROLEUM COMPANY  
**Well Name** LC TRIBAL 14-4-56  
**API Number** 43-013-33578-0      **APD No** 286      **Field/Unit** UNDESIGNATED  
**Location:** 1/4,1/4 SESW      **Sec** 4      **Tw** 5S      **Rng** 6W      598 FSL 1992 FWL  
**GPS Coord (UTM)** 537001      4435389      **Surface Owner**

### Participants

Floyd Bartlett (DOGGM), Jeff Crozier (Berry Petroleum Company), Ben Williams (UDWR), Shaun Hawk (Uintah Engineering and Land Surveying), Stephen Anderson, (Surface Owner)

### Regional/Local Setting & Topography

The general area is within the Lake Canyon drainage in a side drainage named Trail Canyon. Lake Canyon is named for a reservoir lake located in the canyon bottom approximately 8 road miles up canyon from the confluence of Lake Canyon drainage with the Strawberry River. The City of Duchesne is approximately 14 road miles to the east of the road junction leading to Lake Canyon. Access to the area is by State of Utah and Duchesne County paved highways to the Lake Canyon graveled Duchesne County Road. An existing single-track private road has been constructed up Trail Canyon. The Lake Canyon County road is at times narrow and crosses one bridge, which the County and oil companies are planning to replace.

Topography in the Lake Canyon area consists of a wide-bottomed canyon rimmed by excessively steep or vertical sidewall cliffs. Outwash plains or deposits of till are common along both sides of the canyon. A few narrow bottomed side drainages exist and have similar steep sides. A perennial stream exists and flows into the Lake originating at springs approximately 1-1/2 miles upstream. Overflow from the lake subs into the bottom of the drainage a short distance below the lake, depending on the amount of flow for the particular year and time of the year. Seeps and small springs infrequently occur within the drainage.

The proposed LC Tribal #14-4-56 oil well is in the bottom Trail Canyon, a side draw of Lake Canyon. A single lane low standard private road exists. Widening of this road will be required. The site is at the mouth of a side draw of Trail Canyon where the bottom slightly widens. Adequate space is not available for constructing a well pad without cutting the steep slopes especially on the east side of the canyon and filling most of the bottom. As shown on the Location Layout Plan the cut on the northeast corner of the pad (corner 4) probable will not reach the natural angle of repose and continue to un-ravel to the top of the ridge. Rounding of this corner and using a smaller area for the tanks of a closed loop system is necessary. An adequate diversion can be constructed around the location to the north for any summer flows down this side draw. Rounding the corner of the location at corner 8 is also necessary. This should be done so no excavation intersects the side road to Mr. Pennington's property. This will also allow drainage to occur down the main draw with a diversion ditch.

Mr. Stephen Anderson owns the surface and the minerals are Tribal, administered by the BLM for the Ute Indian Tribe.

### Surface Use Plan

#### **Current Surface Use**

Deer Winter Range  
Wildlfe Habitat

#### **New Road**

<b>Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0	<b>Width</b> 210 <b>Length</b> 300	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

**Environmental Parameters**

**Affected Floodplains and/or Wetland** N

**Flora / Fauna**

Poorly vegetated with a mixture of big sagebrush, greasewood, rabbit brush, blue gramma, slender wheatgrass, Indian Ricegrass salina wild rye and annual weeds.

Deer, elk, coyotes, bobcats and numerous small mammals, birds and raptors.

**Soil Type and Characteristics**

Shallow gravely sandy loam.

**Erosion Issues** Y

Unless adequate diversions are constructed or maintained around the location.

**Sedimentation Issues** Y

Same

**Site Stability Issues** N

**Drainage Diversion Required** Y

Around corners 4 and 8

**Berm Required?** N

**Erosion Sedimentation Control Required?** N

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

**Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>	
<b>Distance to Groundwater (feet)</b>	100 to 200	5	
<b>Distance to Surface Water (feet)</b>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>	300 to 1320	10	
<b>Native Soil Type</b>	Mod permeability	10	
<b>Fluid Type</b>	Fresh Water	5	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>	<10	0	
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	<b>Final Score</b>	<b>35</b>	<b>1 Sensitivity Level</b>

**Characteristics / Requirements**

Area for construction of a full location with reserve pit is not adequate. A close loop mud circulation system should be required. Pit corner A needs to be angled off to to about location corner 4. See General write-up.

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

**Other Observations / Comments**

Mr. Stephen Anderson owns the surface and the minerals are Tribal, administered by the BLM for the Ute Indian Tribe. Mr Anderson was present at the evaluation. The BLM was contacted but not represented.

Mr. Anderson and Berry are negotiating on a sale of the property to Berry Petroleum. It appears this will occur. Mr Anderson stated he had given verbal approval for an adjacent land owner to access his property following a road he had constructed. Mr. Anderson wanted that agreement to continue and not have his road interrupted with the oil well.

Floyd Bartlett  
Evaluator

3/20/2007  
Date / Time

**From:** Brad Hill  
**To:** Mason, Diana  
**Date:** 5/16/2007 9:28 AM  
**Subject:** Fwd: Notice to release a number of Berry Petroleum Company's well applications on DWR surface  
**Attachments:** billjames\_businesscard.gif

Diana,

If you would put a copy of this e-mail in the referenced well files I would say this is good enough for the surface agreement requirement.

Brad

>>> William James 5/10/2007 2:50 PM >>>

Diana:

As we discussed today, DWR has been working for a while with Berry Petroleum Co. (Jeff Crozier) to review their applications for rights-of-way on Division of Wildlife Resources (DWR) surface. The roads, pipelines, and well pads for wells #11-27R-46, 4-27-46, 15-6-56, 12-34-46, 14-34-46, 1-9-56, 14-4-56, 10-9-56, 6-12-57, 9-6-56, 3-5-56, 1-12-57, 1-26-46, 3-18-56, 5-4-56, 8-4-56, 8-7-56, 10-26-56, 2-15-54, 4-15-54, 6-15-54, 8-15-54 *are now being authorized under surface operating agreements which have been signed by Berry Petroleum Company, and notarized.*

We have received payment of the applicable fees to DWR. The approved right-of-way leases and easements are now entering the Division of Finance for issuance of contract numbers. Please consider this message as DWR's formal request that, from the surface owner's viewpoint, you can "release" Berry Petroleum to pursue the named wells. We are satisfied they have met DWR standards. If you have questions, please call or drop by my office.

**NOTE** -- I will be unavailable May 12-22, 2007 on annual leave. If there detail questions or follow-up needs in the interim these wells can be referenced within three agreements which we named DUC-0609-EA-060, DUC-0702-EA-004, and DUC-0702-EA-008. Stephen "Steve" Hansen would be the best contact until I return.

Bill James  
Energy Development / NEPA Coordinator  
Utah Division of Wildlife Resources  
Salt Lake City, Utah  
(801) 538-4752 office  
(801) 230-1778 mobile



**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*

May 16, 2007

Berry Petroleum Company  
Rt. 2, Box 7735  
Roosevelt, UT 84066

Re: LC Tribal 14-4-56 Well, 598' FSL, 1992' FWL, SE SW, Sec. 4, T. 5 South,  
R. 6 West, Duchesne 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 43-013-33578.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

**Operator:** Berry Petroleum Company  
**Well Name & Number** LC Tribal 14-4-56  
**API Number:** 43-013-33578  
**Lease:** 14-20-H62-5500

**Location:** SE SW                      **Sec.** 4                      **T.** 5 South                      **R.** 6 West

### Conditions of Approval

#### 1. General

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

#### 2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284

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

- Contact Dustin Doucet at (801) 538-5281

#### 3. Reporting Requirements

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

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

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
VERNAL FIELD OFFICE

2007 MAR -2 PM 3:39

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

DEPT. OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Lease Serial No. 14-20-H62-5500 (EDA)

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. TYPE OF WORK <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		7. Unit or CA Agreement, Name and No.	
1b. Type of Well: <input checked="" type="checkbox"/> Oil well <input type="checkbox"/> Gas well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single zone <input type="checkbox"/> Multiple zone		8. Lease Name and Well No. LC TRIBAL 14-4-56	
2. Name of Operator BERRY PETROLEUM COMPANY		9. API Well No. 43-013-33578	
3a. Address 4000 SOUTH 4028 WEST RT. 2 BOX 7735, ROOSEVELT, UT. 84066		3b. Phone No. (include area code) (435) 722-1325	
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface (SESW) 598' FSL, 1992' FWL At proposed prod. zone SAME AS ABOVE		10. Field and Pool, or Exploratory LAKE CANYON	
11. Sec., T. R. M. or BLK. and Survey or Area NAD 27 40.069828 LAT 110.566011 LONG		11. Sec., T. R. M. or BLK. and Survey or Area SEC. 4, T5S, R6W U.S.B.&M.	
14. Distance in miles and direction from nearest town or post office* 20.4 MILES FROM DUCHESNE UTAH		12. County or Parrish DUCHESNE	13. State UTAH
15. Distance from proposed* location to nearest property of lease line, ft. (Also to nearest drig. Unit line, if any) 598'	16. No. of acres in lease 80	17. Spacing Unit dedicated to this well 40	
18. Distance from proposed* to nearest well, drilling, completed, applied for, on this lease, ft. N/A	19. Proposed Depth 5480'	20. BLM/BIA Bond No. on file UTB000035	
21. Elevations (Show whether DF, KDB, RT, GR, etc.) 6930' GR	22. Approximate date work will start* UPON APPROVAL OF APD	23. Estimated duration APPROXIMATELY 6 DAYS	

24. Attachments

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

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

25. Signature <i>Shelley E. Crozier</i>		Name (Printed/Typed) SHELLEY E. CROZIER	Date 02/27/07
Title REGULATORY & PERMITTING ASSISTANT			
Approved by (Signature) <i>Jerry Kevorka</i>		Name (Printed/Typed) JERRY KEVORKA	Date 6-13-2007
Title Assistant Field Manager Lands & Mineral Resources			

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

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

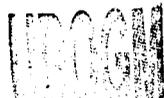
\*(Instructions on page 2)

NOTICE OF APPROVAL

RECEIVED

JUN 21 2007

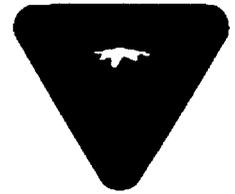
DIV. OF OIL, GAS & MINING





**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:** Berry Petroleum Company  
**Well No:** LC Tribal 14-4-56  
**API No:** 43-013-33578

**Location:** SESW, Sec 4, T5S, R6W  
**Lease No:** 14-20-H62-5500  
**Agreement:** N/A

<b>Title</b>	<b>Name</b>	<b>Office Phone Number</b>	<b>Cell Phone Number</b>
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
NRS/Enviro Scientist:	Paul Buhler	(435) 781-4475	(435) 828-4029
NRS/Enviro Scientist:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	
NRS/Enviro Scientist:	Chuck MacDonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Jannice Cutler	(435) 781-3400	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	

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 two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity	-	The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

**SITE SPECIFIC SURFACE COAs:**

- Berry Petroleum proposes to drill four wells. The surface is owned by Utah State Division of Wildlife Resources and the minerals are owned by Indian Minerals. The wells are: LC Tribal 7-3-56, LC Tribal 5-4-56, LC Tribal 3-5-56, and LC Tribal 14-4-56. Review of the Application for Permit to Drill (APD) and other oil and gas activities indicate this action is in accordance with the Surface Owners interest. A surface owner agreement has been reached between UDWR and the operator Berry Petroleum. A letter dated 5/10/2007 stating satisfaction with this agreement is enclosed in the respective well files.
- The Application for Permits to Drill dated 3/2/2007 was reviewed and approved by the State of Utah Division of Oil, Gas and Mining. Therefore, additional National Environmental Policy Act (NEPA) analysis is not required. The proposed action is discussed in the West Brundage Canyon Oil and Gas Field Development Environmental Assessment approved April 7, 1997 by Bureau of Indian Affairs (BIA).
- It is my decision to adopt the State of Utah Division of Oil, Gas and Mining approval of Application for Permit to Drill and its associated Conditions of Approval. Additional NEPA analysis is not required. No additional Conditions of Approval are necessary for these APD's.

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

### **SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface.
- All blow back fluids from completion operations shall be contained in such a manner that no oil reaches the reserve pit.

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

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

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of

encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

**OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the

well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

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

STATE OF UTAH  
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to re-enter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number:

14-20-H62-5500 (EDA)

6. If Indian, Allottee or Tribe Name:

0

7. Unit Agreement Name:

8. Well Name and Number:

LC TRIBAL 14-4-56

9. API Well Number:

43-013-33578

10. Field and Pool, or Wildcat:

LAKE CANYON

1. Type of Well: OIL  GAS  OTHER:

2. Name of Operator:  
BERRY PETROLEUM COMPANY

3. Address and Telephone Number:  
4000 SOUTH 4028 WEST, RT. 2 BOX 7735 ROOSEVELT, UTAH 84066 (435) 722-1325

4. Location of Well:  
Footages: 598' FSL, 1992' FWL  
QQ, Sec., T., R., M.: SE/SW SEC. 4, T5S, R6W USB&M

County: DUCHESNE,  
State: UTAH

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

NOTICE OF INTENT  
(Submit in Duplicate)

SUBSEQUENT REPORT  
(Submit Original Form Only)

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Multiple Completion
- Other ONE YEAR EXTENSION
- New Construction
- Pull or Alter Casing
- Recomplete
- Reperforate
- Vent or Flare
- Water Shut-Off

- Abandon
- Repair Casing
- Change of Plans
- Convert to Injection
- Fracture Treat or Acidize
- Other
- New Construction
- Pull or Alter Casing
- Reperforate
- Vent or Flare
- Water Shut-Off

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

\* Must be accompanied by a cement verification report.

Approximate date work will start

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

BERRY PETROEUM COMPANY RESPECTFULLY REQUESTS THAT THE APPROVED APPLICATION TO DRILL FOR THE ABOVE SUBJECT WELL BE EXTENDED FOR A PERIOD OF ONE (1) YEAR.

STATE BOND #RLB0005651

Approved by the  
Utah Division of  
Oil, Gas and Mining

COPY SENT TO OPERATOR

Date: 5.21.2008

Initials: KS

Date: 05-20-08

By: [Signature]

13

Name & Signature: SHELLEY E. CROZIER [Signature] Title: REGULATORY & PERMITTING SPECIALIST Date: 05/14/08

(This space for Federal or State office use)

RECEIVED  
MAY 15 2008  
DIV. OF OIL, GAS & MINING

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

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

**API:** 43-013-33578  
**Well Name:** LC TRIBAL 14-4-56  
**Location:** (SE/SW) 598' FSL, 1992' FWL, SEC. 4-T5S-R6W  
**Company Permit Issued to:** BERRY PETROLEUM COMPANY  
**Date Original Permit Issued:** 5/16/2007

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

Shelley Chozier  
Signature

5/14/2008  
Date

Title: Regulatory & Permitting Specialist

Representing: Berry Petroleum Company

RECEIVED  
MAY 15 2008  
DIV. OF OIL, GAS & MINING

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____			5. LEASE DESIGNATION AND SERIAL NUMBER: <b>14-20-H62-5500 (EDA)</b>
2. NAME OF OPERATOR: <b>BERRY PETROLEUM COMPANY</b>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 4000 S. 4028 W.                      CITY <u>Roosevelt</u> STATE <u>UT</u> ZIP <u>84066</u>			7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: <b>598' FSL, 1992' FWL</b>			8. WELL NAME and NUMBER: <b>LC TRIBAL 14-4-56</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>SESW 4 T5S R6W</b>			9. API NUMBER: <b>4301333578</b>
COUNTY: <b>DUCHESNE</b>			10. FIELD AND POOL, OR WILDCAT: <b>LAKE CANYON</b>
STATE: <b>UTAH</b>			

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate)  Approximate date work will start: _____  <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only)  Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/RESUME) <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: <u>1 YR. EXTENSION</u>

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

BERRY PETROLEUM COMPANY RESPECTFULLY REQUESTS THAT THE APPROVED APPLICATION TO DRILL FOR THE ABOVE SUBJECT WELL BE EXTENDED FOR A PERIOD OF ONE (1) YEAR.

Approved by the  
Utah Division of  
Oil, Gas and Mining

STATE BOND # RLB0005651  
  
COPY SENT TO OPERATOR  
Date: 5.12.2009  
Initials: KS

Date: 05-11-09  
By: [Signature]

NAME (PLEASE PRINT) <u>SHELLEY E. CROZIER</u>	TITLE <u>REGULATORY &amp; PERMITTING SPECIALIST</u>
SIGNATURE <u>Shelley E. Crozier</u>	DATE <u>5/7/2009</u>

(This space for State use only)

**RECEIVED**  
**MAY 11 2009**  
DIV. OF OIL, GAS & MINING

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

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

**API:** 43-013-33578  
**Well Name:** LC TRIBAL 14-4-56  
**Location:** (SE/SW) 598' FSL, 1992' FWL, SEC. 4-T5S-R6W  
**Company Permit Issued to:** BERRY PETROLEUM COMPANY  
**Date Original Permit Issued:** 5/16/2007

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

Shelley E. Crozier  
Signature

5/7/2009  
Date

Title: Regulatory & Permitting Specialist

Representing: Berry Petroleum Company

RECEIVED  
MAY 11 2009  
DIV. OF OIL, GAS & MINING



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

FORM APPROVED  
OMB NO. 1004-0135  
Expires: July 31, 2010

APR 09 2010

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

**BLM**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side.**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other	2. Name of Operator BERRY PETROLEUM COMPANY Contact: KATHY K FIELDSTED E-Mail: kkf@bry.com	3a. Address ROUTE 2, BOX 7735 ROOSEVELT, UT 84066	3b. Phone No. (include area code) Ph: 435-722-1325 Fx: 435-722-1321	5. Lease Serial No. 2OG0005500	6. If Indian, Allottee or Tribe Name UINTAH AND OURAY	7. If Unit or CA/Agreement, Name and/or No.	8. Well Name and No. LC TRIBAL 14-4-56	9. API Well No. 43-013-33578-00-X1	10. Field and Pool, or Exploratory UNKNOWN	11. County or Parish, and State DUCHESNE COUNTY, UT
--	---	---	---	-----------------------------------	--	---	---	---------------------------------------	---	--

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

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

BERRY PETROLEUM COMPANY RESPECTFULLY REQUESTS THAT THE APPROVED APPLICATION TO DRILL FOR THE ABOVE SUBJECT WELL BE EXTENDED FOR A PERIOD OF ONE (1) YEAR.

THE APD WAS ORIGINALLY APPROVED ON JUNE 13, 2007. WITH A ONE YEAR EXTENSION BEING APPROVED ON MAY 22, 2009.

**RECEIVED**

MAY 06 2010

DIV. OF OIL, GAS & MINING

CONDITIONS OF APPROVAL ATTACHED

VERNAL FIELD OFFICE  
ENG. \_\_\_\_\_  
GEOL. \_\_\_\_\_  
E.S. \_\_\_\_\_

14. I hereby certify that the foregoing is true and correct.  
Electronic Submission #84522 verified by the BLM Well Information System  
For BERRY PETROLEUM COMPANY, sent to the Vernal  
Committed to AFMSS for processing by GAIL JENKINS on 04/12/2010 (10GJ1381SE)

Name (Printed/Typed) KATHY K FIELDSTED	Title REGULATORY & PERMITTING TECH
Signature (Electronic Submission)	Date 04/09/2010

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By 	Title Petroleum Engineer	Date APR 12 2010
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, 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.



**Revisions to Operator-Submitted EC Data for Sundry Notice #84522**

	<b>Operator Submitted</b>	<b>BLM Revised (AFMSS)</b>
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	2OG0005500	2OG0005500
Agreement:		
Operator:	BERRY PETROLEUM ROUTE 2 BOX 7735 4000 SO 4028 WEST ROOSEVELT, UT 84066 Ph: 435-722-1325	BERRY PETROLEUM COMPANY ROUTE 2, BOX 7735 ROOSEVELT, UT 84066 Ph: 435.722.1325 Fx: 435.722.1321
Admin Contact:	KATHY K FIELDSTED SR. REGULATORY & PERMITTING TE E-Mail: kkf@bry.com Cell: 435-823-1920 Ph: 435-722-1325 Fx: 435-722-1321	KATHY K FIELDSTED REGULATORY & PERMITTING TECH E-Mail: kkf@bry.com Cell: 435-823-1920 Ph: 435-722-1325 Fx: 435-722-1321
Tech Contact:	KATHY K FIELDSTED SR. REGULATORY & PERMITTING TE E-Mail: kkf@bry.com Cell: 435-823-1920 Ph: 435-722-1325 Fx: 435-722-1321	KATHY K FIELDSTED REGULATORY & PERMITTING TECH E-Mail: kkf@bry.com Cell: 435-823-1920 Ph: 435-722-1325 Fx: 435-722-1321
Location:		
State:	UT	UT
County:	DUCHESNE	DUCHESNE
Field/Pool:	LAKE CANYON	UNKNOWN
Well/Facility:	LC TRIBAL 14-4-56 Sec 4 T5S R6W SESW 598FSL 1992FWL	LC TRIBAL 14-4-56 Sec 4 T5S R6W SESW 598FSL 1992FWL

# **CONDITIONS OF APPROVAL**

## **Berry Petroleum Company**

### **Notice of Intent APD Extension**

**Lease:** 2OG0005500  
**Well:** LC Tribal 14-4-56  
**Location:** SESW Sec 4-T5S-R6W

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

---

1. The extension and APD shall expire on 6/13/2011.
2. No other extensions shall be granted.

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

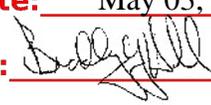
<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500
	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 14-4-56
<b>2. NAME OF OPERATOR:</b> BERRY PETROLEUM COMPANY	<b>9. API NUMBER:</b> 43013335780000
<b>3. ADDRESS OF OPERATOR:</b> 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066	<b>PHONE NUMBER:</b> 303 999-4044 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0598 FSL 1992 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 04 Township: 05.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
	<b>COUNTY:</b> DUCHESNE
	<b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 5/16/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: _____

**12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.**  
 BERRY PETROLEUM RESPECTFULLY REQUESTS THAT APPROVED APPLICATION TO DRILL FOR THE ABOVE SUBJECT WELL BE EXTENDED FOR THE PERIOD OF ONE (1) YEAR.

Approved by the  
 Utah Division of  
 Oil, Gas and Mining

Date: May 03, 2010  
 By: 

<b>NAME (PLEASE PRINT)</b> Kathy K. Fieldsted	<b>PHONE NUMBER</b> 435 722-1325	<b>TITLE</b> Sr. Regulatory & Permitting Tech.
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/29/2010	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013335780000**

**API:** 43013335780000

**Well Name:** LC TRIBAL 14-4-56

**Location:** 0598 FSL 1992 FWL QTR SESW SEC 04 TWP 050S RNG 060W MER U

**Company Permit Issued to:** BERRY PETROLEUM COMPANY

**Date Original Permit Issued:** 5/16/2007

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

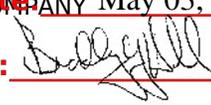
- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
- Has there been any unit or other agreements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

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

**Signature:** Kathy K. Fieldsted

**Date:** 4/29/2010

**Title:** Sr. Regulatory & Permitting Tech. **Representing:** BERRY PETROLEUM COMPANY **Date:** May 03, 2010

**By:** 

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-5500
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> LC TRIBAL 14-4-56
<b>2. NAME OF OPERATOR:</b> BERRY PETROLEUM COMPANY	<b>9. API NUMBER:</b> 43013335780000
<b>3. ADDRESS OF OPERATOR:</b> 4000 South 4028 West Rt 2 Box 7735 , Roosevelt, UT, 84066	<b>PHONE NUMBER:</b> 303 999-4044 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0598 FSL 1992 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESW Section: 04 Township: 05.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> INDIAN CANYON  <b>COUNTY:</b> DUCHESNE  <b>STATE:</b> UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 6/13/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>

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

BERRY PETROLEUM WOULD LIKE TO REQUEST THAT THE APPROVED APPLICATION TO DRILL THE ABOVE SUBJECT WELL BE EXTENDED FOR THE PERIOD OF ONE (1) YEAR.

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

**Date:** 04/21/2011

**By:**

<b>NAME (PLEASE PRINT)</b> Kathy K. Fieldsted	<b>PHONE NUMBER</b> 435 722-1325	<b>TITLE</b> Sr. Regulatory & Permitting Tech.
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/20/2011	



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

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013335780000**

**API:** 43013335780000

**Well Name:** LC TRIBAL 14-4-56

**Location:** 0598 FSL 1992 FWL QTR SESW SEC 04 TWP 050S RNG 060W MER U

**Company Permit Issued to:** BERRY PETROLEUM COMPANY

**Date Original Permit Issued:** 5/16/2007

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

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

**Signature:** Kathy K. Fieldsted

**Date:** 4/20/2011

**Title:** Sr. Regulatory & Permitting Tech. **Representing:** BERRY PETROLEUM COMPANY



GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 13, 2012

Kathy Fieldsted  
Berry Petroleum Company  
Route 2, Box 7735  
Roosevelt, UT 84066

43 013 335 78  
LC Tribal 14-4-56  
55 6W 4

Re: APDs Rescinded for Berry Petroleum Company  
Duchesne County

Dear Ms. Fieldsted:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 29, 2012.

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

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

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



→ LC Tribal 14-4-56	43-013-33578
LC Tribal 5-4-56	43-013-33579
LC Tribal 3-18-56	43-013-33609
Ute Tribal 15-14D-54	43-013-33679
LC Tribal 3-22D-46	43-013-33665
LC Tribal 11-27-46	43-013-33640
LC Tribal 7-21D-46	43-013-33743



GARY R. HERBERT  
Governor

GREG BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

April 13, 2012

Kathy Fieldsted  
Berry Petroleum Company  
Route 2, Box 7735  
Roosevelt, UT 84066

43 013 335 78  
LC Tribal 14-4-56  
55 6W 4

Re: APDs Rescinded for Berry Petroleum Company  
Duchesne County

Dear Ms. Fieldsted:

Enclosed find the list of APDs that you requested to be rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded, effective March 29, 2012.

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

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

Sincerely,

Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal



→ LC Tribal 14-4-56	43-013-33578
LC Tribal 5-4-56	43-013-33579
LC Tribal 3-18-56	43-013-33609
Ute Tribal 15-14D-54	43-013-33679
LC Tribal 3-22D-46	43-013-33665
LC Tribal 11-27-46	43-013-33640
LC Tribal 7-21D-46	43-013-33743