



September 11, 2008

Utah Division of Oil, Gas and Mining  
P.O. Box 145801  
1594 West North Temple, Suite 1210  
Salt Lake City, Utah 84114-5801

# 13-2-46 BTR  
Tribal Surface/Tribal Minerals  
SWSW, Section 2-T4S-R6W  
Duchesne County, Utah

Diana Mason, Permitting - Petroleum Technician:

Enclosed please find a copy of Bill Barrett Corporation's (BBC) application for permit to drill the above captioned well. Montgomery Archeological Consultants conducted a Class III archeological survey for this location and confirmed that "no historic properties affect" this location. The final report dated September 10, 2008 (MOCA Report No. 08-164) is enclosed. EIS Environmental and Engineering Consulting conducted a "Threatened, Endangered, Candidate, and Sensitive Species Habitat Delineation Survey" on July 16 and 17, 2008. No endangered species were identified in this survey. A copy of this report was sent under a previous cover letter.

Please contact me at (303) 312-8546 if you need anything additional or have any questions.

Sincerely,

A handwritten signature in cursive script that reads 'Reed Haddock'.

Reed Haddock  
Permit Analyst

Enclosures

**RECEIVED**  
**SEP 15 2008**  
DIV. OF OIL, GAS & MINING

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
BIA-EDA-2OG0005608

6. If Indian, Allottee or Tribe Name  
ute Indian Tribe

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

8. Lease Name and Well No.  
# 13-2-46 BTR

9. API Well No.  
Pending 43-013-34090

10. Field and Pool, or Exploratory  
Altamont 55

11. Sec., T, R, M. or Blk. and Survey or Area  
Sec. 2, T4S, R6W U.S.B.&M.  
SWSW

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work:  DRILL  REENTER

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

2. Name of Operator Bill Barrett Corporation

3a. Address 1099 18th Street, Suite 2300, Denver, CO  
80202

3b. Phone No. (include area code)  
(303) 312-8546

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface 736 FSL 1044' FWL 539587 X 4445840 Y 40.156674  
At proposed prod. zone -110.535178

14. Distance in miles and direction from nearest town or post office\*  
Approximately 12.4 miles southwest of Duchesne, UT

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

16. No. of acres in lease  
N/A

17. Spacing Unit dedicated to this well  
640

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
2,420' abandoned oil well

19. Proposed Depth  
8,002'

20. BLM/BIA Bond No. on file  
Nationwide Bond # WYB000040

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5983' Ungraded Ground

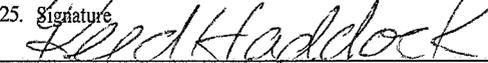
22. Approximate date work will start\*  
01/15/2009

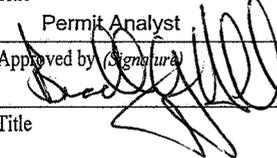
23. Estimated duration  
45 days

24. Attachments

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

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>1. Well plat certified by a registered surveyor.</li> <li>2. A Drilling Plan.</li> <li>3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).</li> </ul> | <ul style="list-style-type: none"> <li>4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).</li> <li>5. Operator certification</li> <li>6. Such other site specific information and/or plans as may be required by the BLM.</li> </ul> |
|---|---|

25. Signature 	Name (Printed/Typed) Reed Haddock	Date 09/11/2008
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Title Permit Analyst	Name (Printed/Typed) BRADLEY G. HILL	Date 09-30-08
Approved by (Signature) 	Title Office ENVIRONMENTAL MANAGER	

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

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

(Continued on page 2)

\*(Instructions on page 2)

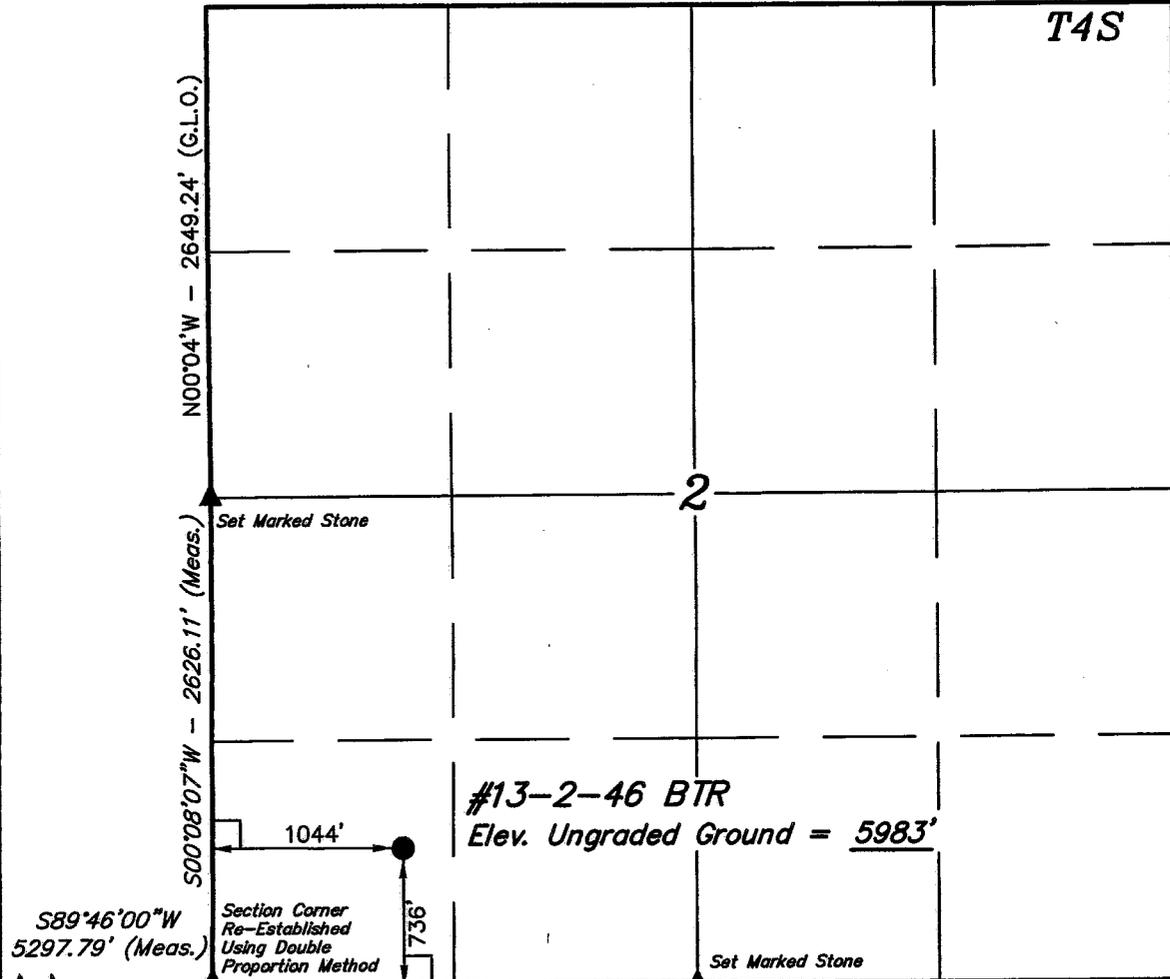
Federal Approval of this  
Action is Necessary

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

# T4S, R6W, U.S.B.&M.

EAST - 5280.00' (G.L.O.)

T3S  
T4S



#13-2-46 BTR  
Elev. Ungraded Ground = 5983'

## BILL BARRETT CORPORATION

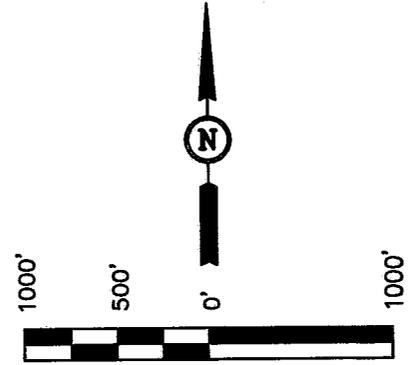
Well location, #13-2-46 BTR, located as shown in the SW 1/4 SW 1/4 of Section 2, T4S, R6W, U.S.B.&M., Duchesne County, Utah.

### 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.

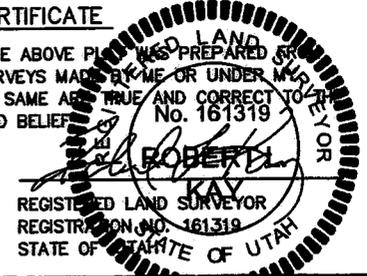
### BASIS OF BEARINGS

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



### SCALE CERTIFICATE

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



REVISED: 09-02-08

**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)

(NAD 83)  
LATITUDE = 40°09'24.09" (40.156692)  
LONGITUDE = 110°32'09.42" (110.535950)  
(NAD 27)  
LATITUDE = 40°09'24.25" (40.156736)  
LONGITUDE = 110°32'06.86" (110.535239)

SCALE 1" = 1000'	DATE SURVEYED: 07-09-08	DATE DRAWN: 07-17-08
PARTY D.R. N.W. C.H.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	

Bill Barrett Corporation  
Drilling Program  
# 13-2-46 BTR  
Duchesne County, Utah

**HAZARDOUS MATERIAL DECLARATION**

WELL NO. # 13-2-46 BTR - LEASE NO. BIA-EDA-2OG0005608

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

Bill Barrett Corporation guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

Bill Barrett Corporation  
 Drilling Program  
 # 13-2-46 BTR  
 Duchesne County, Utah

**DRILLING PLAN**

BILL BARRETT CORPORATION

# 13-2-46 BTR

SHL: SW/4 SW/4, 736' FSL & 1044' FWL, Section 2-T4S-R6W

BHL: SW/4 SW/4, 736' FSL & 1044' FWL, Section 2-T4S-R6W

Surface Owner: Tribal

Duchesne County, Utah

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

<u>Formation</u>	<u>Depth – MD</u>
Green River	4,003'
Douglas Creek	4,844'
Black Shale	5,677'
Castle Peak	5,886'
Wasatch	6,432' *
TD	8,002'

\*PROSPECTIVE PAY

The Wasatch and the North Horn are primary objectives for oil/gas.

4. **Casing Program**

A) **Planned Program**

<u>Hole Size</u>	<u>SETTING DEPTH (FROM) (TO)</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
12 1/2"	surface	2,000'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	surface	TD	5 1/2"	17#	P-110	LT&C	New

For any liner ran BBC intends to have a minimum of 200' of liner overlap.

5. **Cementing Program**

A) **Planned Program**

9 5/8" Surface Casing	Approximately 470 sx Halliburton Light Premium with additives mixed at 12.7 ppg (yield = 1.82 ft <sup>3</sup> /sx) circulated to surface with 75% excess. Approximately 230 sx Halliburton Premium Plus cement with additives mixed at 15.8 ppg (yield = 1.20 ft <sup>3</sup> /sx).
5 1/2" Production Casing	Approximately 310 sx Halliburton Hi-Fill Modified cement with additives mixed at 10.7 ppg (yield = 2.92 ft <sup>3</sup> /sx). Approximately 250 sx Halliburton Tuned Light RS-1 cement with additives mixed at 11.5 ppg (yield = 3.21 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC 2,000'.

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
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Bill Barrett Corporation  
 Drilling Program  
 # 13-2-46 BTR  
 Duchesne County, Utah

40' – 2,000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3,000' – TD	8.6 – 9.2	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain “kicks” will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

**7. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,000'	No pressure control required
2,000' – TD	11” 5000# Ram Type BOP 11” 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 5000 psi;	
- Ancillary equipment and choke manifold rated at 7,500 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**8. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**9. Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

If BBC pursues the “Alternate” program, a suite of the above logs will be run on both the intermediate and production hole sections.

**10. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3828 psi\* and maximum anticipated surface pressure equals approximately 2068 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

Bill Barrett Corporation  
Drilling Program  
# 13-2-46 BTR  
Duchesne County, Utah

**11. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**12. Drilling Schedule**

Location Construction:	Approximately November 1, 2008
Spud:	Approximately November 1, 2008
Duration:	30 days drilling time
	45 days completion time

**13-2-46 BTR Proposed Cementing Program**

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1500' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 12.7 lbm/gal
1.0% Calcium Chloride	Slurry Yield: 1.82 ft <sup>3</sup> /sk
0.125 lbm/sk Ploy-E-Flake	Total Mixing Fluid: 9.72 Gal/sk
	Top of Fluid: 0'
	Calculated Fill: 1,500'
	Volume: 146.41 bbl
	<b>Proposed Sacks: 470 sks</b>
<b>Tail Cement - (TD - 1500')</b>	
Premium Cement	Fluid Weight: 15.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.20 ft <sup>3</sup> /sk
0.125 lbm/sk Ploy-E-Flake	Total Mixing Fluid: 5.238 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 230 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (5177' - 2000')</b>	
Halliburton Hi-Fill Modified	Fluid Weight: 10.7 lbm/gal
0.2% HR-5	Slurry Yield: 2.92 ft <sup>3</sup> /sk
0.25 lbm/sk Poly-E-Flake	Total Mixing Fluid: 17.26 Gal/sk
5.0 lbm/sk Gilsonite	Top of Fluid: 2,000'
	Calculated Fill: 3,177'
	Volume: 157.21 bbl
	<b>Proposed Sacks: 310 sks</b>
<b>Tail Cement - (8002' - 5177')</b>	
Halliburton Tuned Light RS-1	Fluid Weight: 11.5 lbm/gal
0.2% Super CBL	Slurry Yield: 3.21 ft <sup>3</sup> /sk
0.2% HR-5	Total Mixing Fluid: 18.56 Gal/sk
	Top of Fluid: 5,177'
	Calculated Fill: 2,825'
	Volume: 139.81 bbl
	<b>Proposed Sacks: 250 sks</b>

Well name:	<b>BTR General</b>
Operator:	<b>Bill Barrett Corporation</b>
String type:	Surface
Location:	Duchesne County, UT

**Design parameters:**

**Collapse**

Mud weight: 8.90 ppg

Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 911 psi

Internal gradient: 0.22 psi/ft

Calculated BHP 1,351 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)

8 Round LTC: 1.80 (J)

Buttress: 1.80 (J)

Premium: 1.80 (J)

Body yield: 1.80 (B)

Tension is based on buoyed weight.

Neutral point: 1,737 ft

**Environment:**

H2S considered? No

Surface temperature: 70.00 °F

Bottom hole temperature: 94 °F

Temperature gradient: 1.22 °F/100ft

Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

**Re subsequent strings:**

Next setting depth: 9,500 ft

Next mud weight: 10.600 ppg

Next setting BHP: 5,231 psi

Fracture mud wt: 13,000 ppg

Fracture depth: 2,000 ft

Injection pressure 1,351 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	2000	9.625	36.00	J-55	ST&C	2000	2000	8.796	142.4

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	925	2020	2.185	1351	3520	2.61	63	394	6.30 J

Prepared Dominic Spencer  
by: Bill Barrett

Phone: (303) 312-8164  
FAX: (303) 291-0420

Date: September 2, 2008  
Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

Well name:	<b>BTR General</b>
Operator:	<b>Bill Barrett Corporation</b>
String type:	Production
Location:	Duchesne County, UT

**Design parameters:**

Collapse

Mud weight: 10.60 ppg

Design is based on evacuated pipe.

**Minimum design factors:**

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

**Environment:**

H2S considered? No  
 Surface temperature: 70.00 °F  
 Bottom hole temperature: 186 °F  
 Temperature gradient: 1.22 °F/100ft  
 Minimum section length: 1,500 ft

Cement top: 2,000 ft

Burst

Max anticipated surface pressure: 3,141 psi  
 Internal gradient: 0.22 psi/ft  
 Calculated BHP 5,231 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.  
 Neutral point: 7,973 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9500	5.5	17.00	P-110	LT&C	9500	9500	4.767	327.4
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	5231	7480	1.430	5231	10640	2.03	136	445	3.28 J

Prepared Dominic Spencer  
 by: Bill Barrett

Phone: (303) 312-8164  
 FAX: (303) 291-0420

Date: September 2, 2008  
 Denver, Colorado

Remarks:

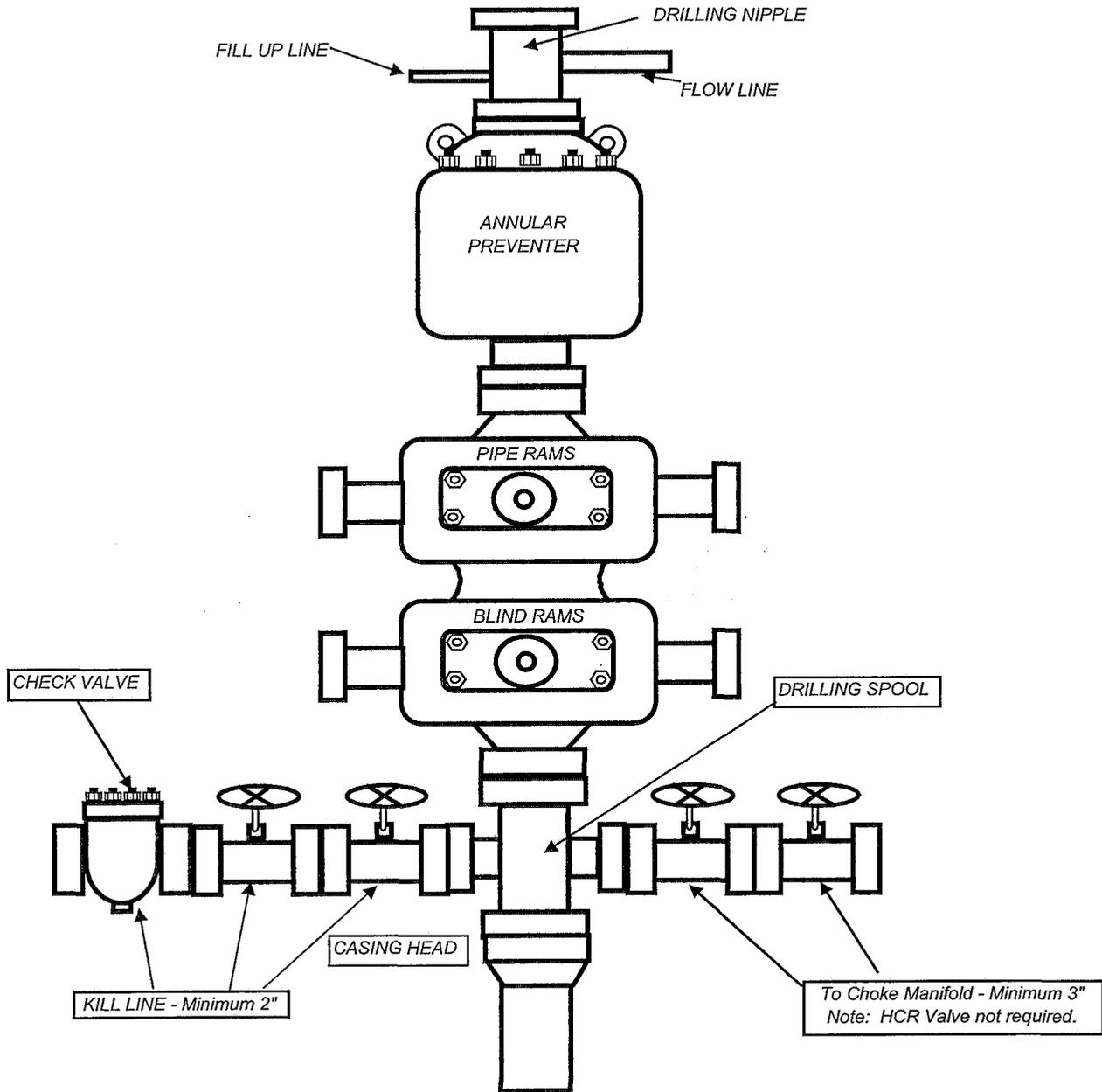
Collapse is based on a vertical depth of 9500 ft, a mud weight of 10.6 ppg. The casing is considered to be evacuated for collapse purposes.  
 Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

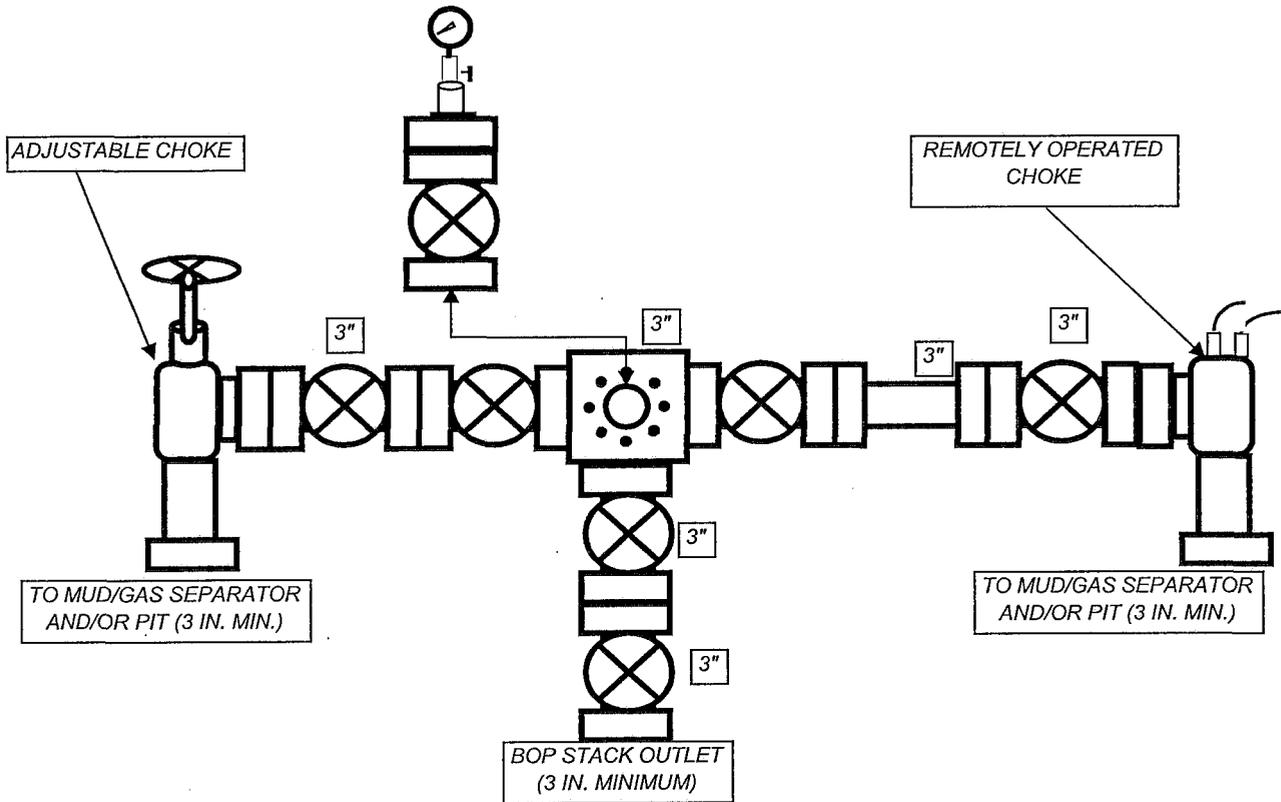
# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD



**Surface Use Plan for  
Bill Barrett Corporation's  
Development Program  
Black Tail Ridge Area  
Duchesne County, Utah**

**1. Existing Roads:**

The Black Tail Ridge Areas are located approximately 12 miles Southwest of Duchesne, Utah and extend from Township 3 South, Range 5 West, Range 6 West, and Range 7 West and the North ½ of Township 4 South, Range 5 West, Range 6 West, and Range 7 West. The specific location of a particular well pad will be shown on maps and described in the site specific APD.

The use of state and county roads under UDOT and Duchesne County Road Department maintenance is necessary to access the Project Area. Improvements to existing access roads will be noted in the site specific APD's.

**2. Planned Access Roads:**

Descriptions of the individual access road(s) will be included in the site specific APD and ROW application.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance with the UDWR.

**3. Location of Existing Wells With-In A One-Mile Radius**

Water wells – None.

Abandoned wells – (1) - NW1/4, Section 2, T4S, R6W.

Shut-In - (1) - NE1/4, Section 3, T4S, R6W.

Temporarily abandoned wells – None.

Disposal wells – None.

Drilling wells – None.

Producing wells – (1) - SW1/4, Section 11, T4S, R6W.

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

The following guidelines will apply if the well is productive:

All permanent (on site for six months or longer) structures constructed or installed will conform to DOGM standards. All facilities will be painted within six months of installation.

A containment dike will be constructed completely around production facilities which contain fluids (i.e., production tanks, produced water tanks). This dike will be constructed of compacted subsoil, be impervious, and hold a minimum of 110% of the capacity of the largest tank. Topsoil will not be used for the construction of dike(s).

A description of the proposed pipeline and a map illustrating the proposed route will be submitted with the well site specific APD.

5. **Location and Type of Water Supply**

The Duchesne City Culinary Water Dock located in section 1, T4S-R5W will be used for water supply for drilling and completion operations. Additional water supply sources will be addressed in the site specific APD, indicating the location and type of water supply.

6. **Source of Construction Materials:**

All construction materials for this location site and access road shall be borrowed (local) material accumulated during construction of the location site and access road. No construction materials will be removed from UDWR lands. If any gravel is used, it will be obtained from an approved gravel pit.

7. **Methods of Handling Waste Materials:**

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

Drilling fluids, including any 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. Immediately upon well completion, any hydrocarbons in the pit shall be removed.

Unless otherwise specified in the site specific APD, 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 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. The liner will overlay a felt-liner pad if rock that might tear or puncture the liner is encountered during excavation. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. Trash, scrap pipe, etc. that could puncture the liner will not be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at

all times during the drilling and completion operations. The pit liner will be protected during drilling and completion operations.

No water well will be drill on this lease. Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W. The trucked water will follow the access route described in the plat package of each APD. Production fluids will be contained in leak-proof tanks. All production fluids will be sold, recycled, or disposed of at approved disposal sites.

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 self-contained sanitary-toilet will be onsite during drilling and completions.

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 immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The reserve pit fencing will be on three sides before drilling operations start. The fourth side will be fenced as soon as drilling is completed and the rig is removed. The fencing will be maintained until such time as the pits are backfilled.

**8. Ancillary Facilities:**

Garbage containers and portable toilets are the only ancillary facilities proposed. No additional ancillary facilities are foreseen in the future.

**9. Wellsite Layout:**

A Location Layout Diagram describing drill pad cross-sections, cuts and fills, and locations of mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and the surface materials stockpile(s) will be included with the site specific APD and developed through a consultant.

**10. Plans for Restoration of the Surface:**

The dirt contractor will be provided with an approved copy of the surface use plan and these Standard Operating Procedures prior to commencing construction activities.

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production. All reclamation standards will be developed between Bill Barrett Corporation (BBC) and UDWR. 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 recontoured to the approximate natural contours.

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

Prior to backfilling the reserve pit, the fence surrounding the reserve pit will be removed. The pit liner will be cut off at the water or mud line and disposed of at an approved landfill site. The remaining liner will be 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, unless it is determined that this location will be utilized to drill additional wells within 1 year of completing operations.

After the reserve pit has been reclaimed, diversion ditches and water bars will be used to divert precipitation runoff/runoff as appropriate.

Prior to the construction of the location, the top 6 inches or maximum available topsoil material will be stripped and stockpiled. Placement of the topsoil will be noted on the location plat attached to the site specific APD. Topsoil shall be stockpiled separately from subsoil materials. Topsoil salvaged from the reserve pit shall be stockpiled separately near the reserve pit. When all drilling and completion activities have been completed, the unused portion of the location (area outside the deadmen) will be recontoured and the stockpiled topsoil spread over the area.

If topsoil must be stored for more than one year:

It shall be windrowed on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.

It shall be broadcast seeded with the prescribed seed mixture immediately after windrowing. Seed will be drilled on the contour to an appropriate depth and the stockpile then "walked" with a dozer to cover the seed and roughen the soil to prevent erosion.

Mulching may be considered to enhance the re-establishment of desired native plant communities. If straw or hay mulch is used, the straw and hay must be certified to be weed-free and the documentation submitted prior to usage.

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

UDWR shall be contacted for the required seed mixture. Seed will be drilled on the contour to an appropriate depth. If broadcast seeded, the amount of seed mixture per acre will be doubled, and a harrow or some other implement will be dragged over the seeded area to assure coverage of the seeds.

At final abandonment, BBC will follow UT-DOGM standards for final well abandonment.

**11. Surface Ownership**

The well location and proposed access road route is located on The Ute Indian Tribe surface estate.

I hereby certify that Bill Barrett Corporation has reached an agreement with The Ute Indian Tribe for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof.

9/9/2008

Date

Reed Haddock

Reed Haddock – Permit Analyst  
Bill Barrett Corporation

**12. Other Information:**

The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to the BBC field representative to ensure compliance.

The operator will control noxious weeds along applied access road authorizations, pipeline route authorizations, well sites or other applicable facilities

Wells drilled during the fire season (June – October) all appropriate precautions shall be instituted to ensure that fire hazard is minimized, including, but not limited to, controlling vegetation and keeping fire fighting equipment readily available during all drilling and completion operations.

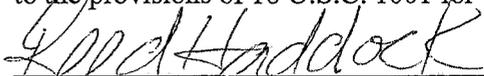
Drilling rigs and/or equipment used during drilling operations on locations will not be stacked or stored on UDWR administered lands after the conclusion of drilling operations or at any other time without permission by the UDWR. If UDWR permission is obtained, such storage will only be temporary measure.

Travel will be restricted to approved travel routes.

## OPERATOR CERTIFICATION

This drilling permit will be valid for a period of two (2) years from the date of approval. After permit termination, a new application will be filed for approval for any future operations.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by Bill Barrett Corporation 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.



DATE: September 1, 2008

Reed Haddock  
Permit Analyst

### **BBC Representatives:**

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1099 18<sup>th</sup> Street, Suite 2300  
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Scot Donato, Environmental Health and Safety; phone: (303) 312-8191  
Mike Angus, Area Superintendent; phone: (435) 724-8016

### **UDWR Representatives:**

Ben Williams, UDWR, Wildlife Resources; phone: (435) 781-5357  
Bill James, UDWR, Wildlife Resources, Manager; phone: (801) 538-4745

BILL BARRETT CORPORATION  
#13-2-46 BTR  
SECTION 2, T4S, R6W, U.S.B.&M.

PROCEED IN A SOUTHERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 33 APPROXIMATELY 3.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD TO THE AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 2.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ROAD RE-ROUTE TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 605' TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 35' TO THE PROPOSED WELL LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 12.5 MILES.

**CULTURAL RESOURCE INVENTORY OF  
BILL BARRETT CORPORATION'S FOUR PROPOSED  
WELL LOCATIONS #14-1-46 BTR, #13-2-46 BTR,  
#6-12-46 BTR, AND #5-13-46 BTR  
(T4S, R6W, SECTIONS 1, 2, 12, AND 13)  
DUCHESNE COUNTY, UTAH**

CULTURAL RESOURCE INVENTORY OF  
BILL BARRETT CORPORATION'S FOUR PROPOSED  
WELL LOCATIONS #14-1-46 BTR, #13-2-46 BTR,  
#6-12-46 BTR, AND #5-13-46 BTR  
(T4S, R6W, SECTIONS 1, 2, 12, AND 13)  
DUCHESNE COUNTY, UTAH

By:

Patricia Stavish

Prepared For:

Ute Indian Tribe  
Uintah and Ouray Agency

Prepared Under Contract With:

Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

Prepared By:

Montgomery Archaeological Consultants, Inc.  
P.O. Box 219  
Moab, Utah 84532

MOAC Report No. 08-164

September 10, 2008

United States Department of Interior (FLPMA)  
Permit No. 08-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-08-MQ-0776i,p

Ute Tribal Permit No. A08-363

## ABSTRACT

A cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) in July 2008 for Bill Barrett Corporation's (BBC) proposed #14-1-46 BTR, #13-2-46 BTR, #6-12-46 BTR, and #5-13-46 BTR well locations with associated access/pipeline corridors. The project area is located south of the Strawberry River and southwest of the town of Duchesne, Duchesne County, Utah. The survey was implemented at the request of Mr. Reed Haddock, Bill Barrett Corporation, Denver, Colorado. The project is situated on Ute Tribal land (Uintah and Ouray Agency) and private land.

The inventory resulted in the documentation of a historic site (42Dc2467). Site 42Dc2467 is a camp and trash scatter associated with oil exploration activities. Although the site contains several types of artifacts, there remains minimal information to address such research topics as consumer behavior patterns or meaningful trash disposal patterns. Furthermore, the artifact concentrations and feature retains little integrity. Therefore, the site is recommended ineligible to the NRHP because it fails to address Criteria A through D.

The inventory of Bill Barrett Corporation's proposed #14-1-46 BTR, #13-2-46 BTR, #6-12-46 BTR, and #5-13-46 BTR well locations with associated access/pipeline corridors resulted in the documentation of a historic camp and trash scatter (42Dc2467) that is recommended as not eligible to the NRHP. Based on the findings, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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## INTRODUCTION

A cultural resource inventory was conducted by Montgomery Archaeological Consultants, Inc. (MOAC) in July 2008 for Bill Barrett Corporation's (BBC) proposed #14-1-46 BTR, #13-2-46 BTR, #6-12-46 BTR, and #5-13-46 BTR well locations with associated access/pipeline corridors. The project area is located southwest of the town of Duchesne, Duchesne County, Utah. The survey was implemented at the request of Mr. Reed Haddock, Bill Barrett Corporation, Denver, Colorado. The project is situated on Ute Tribal land (Uintah and Ouray Agency) and private land.

The objective of the inventory was to locate, document, and evaluate any cultural resources within the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental and Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

The fieldwork was performed on July 17 and August 29, 2008 by Chris Roberts (Field Supervisor), and accompanied by Leroy Cesspooch (Ute Tribal Technician). The inventory was conducted under the auspices of U.S.D.I. (FLPMA) Permit No. 08-UT-60122, State of Utah Antiquities Permit (Survey) No. U-08-MQ-0776i,p and Ute Tribal Permit No. A08-363 issued to Montgomery Archaeological Consultants, Moab, Utah.

A file search for previous archaeological projects and cultural resources was conducted by Marty Thomas at the Division of State History, Salt Lake City, on July 16, 2008. This consultation indicated that two previous cultural resource inventories have been conducted in the vicinity of the current project area. However, no previously recorded sites occur in the current project area.

In 1983, Mesa Corporation completed a cultural resource survey of a portion of the Starvation collection system, Bonneville unit; resulting in the location of several archaeological sites (Norman and Merrill 1983; Report No. U-82-MB-0723). None of these sites are located in the current project area. In 2006, An Independent Archaeologist conducted a cultural resource inventory of Berry Petroleum Company's proposed Lake Canyon Road; resulting in no cultural resources (Truesdale 2006; Report No. U-06-AY-1429).

## DESCRIPTION OF PROJECT AREA

The project area lies south of the Strawberry River, east of Skitz Canyon, west of Weeint Hollow, southwest of the town of Duchesne, Duchesne County, Utah. The legal description of the project area is Township 4 South, Range 6 West, Sections 1, 2, 11, 12, 13, and 14; and Township 4 South, Range 5 West, Sections 17 and 18 (Figure 1, Table 1).

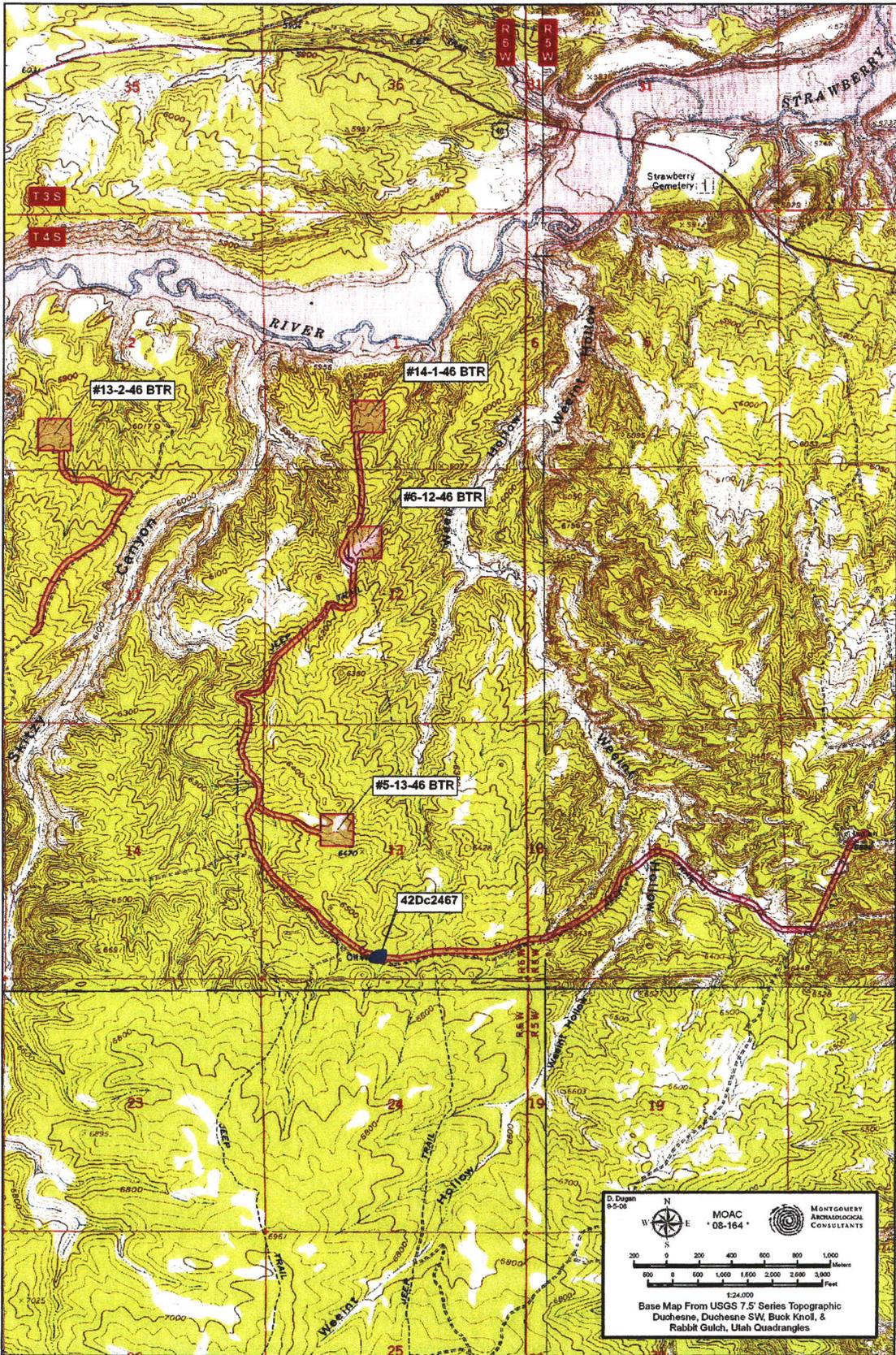


Figure 1. BBC's Four Proposed BTR Well Locations, Duchesne County, Utah; Showing Cultural Resources.

Table 1. BBC's Four Proposed BTR Well Locations.

Well Designation	Legal Location	Access/Pipeline	Cultural Resources
#14-1-46 BTR	SE/SW of S. 1, T4S, R6W	Pipeline: 2831 ft Access: 2885 ft	None
#13-2-46 BTR	SW/SW of S. 2, T4S, R6W	Pipeline: 5511 ft	None
#6-12-46 BTR	SE/NW of S. 12, T4S, R6W	Pipeline: 23,570 ft Access: 860 ft	None
#5-13-46 BTR	SE/NW of S. 13, T4S, R6W	Pipeline: 1466 ft Access: 1552 ft	42Dc2467

### Environmental Setting

The project area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, and is the northernmost extension of the Colorado Plateau. Geologically, the area consists of the Tertiary age Uinta formation, which is basically "gravel, sand and silt washed south off the Uinta Mountains (Chronic 1990:45)." The area is characterized by steep-sided narrow ridges and benches dissected by intermittent drainages. Outcrops of the Uinta formation are characterized by a dense dendritic drainage pattern and topographic relief. This Eocene-age formation occurs as fluvial deposited interbedded sandstone and mudstone and is well-known for its fossil vertebrates.

Specifically, the project area lies adjacent to Skitz Canyon and Weeint Hollow, south of the Strawberry River. The elevation of the inventory areas ranges from 5900 ft to 6530 ft asl. The project area is in the Upper Sonoran lifezone, and vegetation communities include the pinyon-juniper woodland, sagebrush, rabbitbrush, shadscale, cheatgrass, Indian ricegrass, prickly pear, hedgehog yucca, Indian paintbrush, and barrel cactus. Modern impacts include ranching activities, roads, recreational activities, and oil and gas development.

### Historical Overview

On May 5, 1864, Congress passed a law confirming the 1861 executive order setting up the Uintah Reservation (Burton 1996:24). This treaty provided that the Ute people give up their land in central Utah and move within one year to the Uintah Reservation without compensation for loss of land and independence. The Uinta-ats (later called Tavaputs), PahVant, Tumpanawach, and some Cumumba and Sheberetch of Utah were gathered together at the Uintah agency during the late 1860s and early 1870s to form the Uintah Band (Burton 1996:18-19). In the 1880 treaty council the White River Utes, who had participated in the Meeker Massacre, were forced to sell all their lands in Colorado and were moved under armed escort to live on the Uintah Reservation (Callaway, Janetski, and Stewart 1986:339). Shortly thereafter, 361 Uncompahgre Utes were forced to sell their lands, and were relocated to the Ouray Reservation adjacent to the southern boundary of the Uintah Reservation. This area embraced a tract of land to the east and south of the Uintah Reservation below Ouray lying east and south of the Uintah Reservation and east of the Green River. A separate Indian Agency was established in 1881 with headquarters at Ouray, erected

across the river from where the first military post, Fort Thornburgh was located. The infantry who participated in the relocation of the Colorado Indians ensured that the Uncompahgre and White River Utes remained on the two reservations (Burton 1996:28). The Dawes Severalty Act of 1887, opened the reservation to mineral exploration. When gilsonite was discovered in the Uintah Basin in the late 1800s, Congress was persuaded to apportion 7,040 acres from the reservation so the mineral could be mined.

The historic settlement of Duchesne County is somewhat unique in the state of Utah in that it was not settled by Mormon pioneers, as early scouting parties had deemed the area unfit for settlers. Thus, the earliest permanent European settlements and associated developments within the Uinta Basin were established by the U.S. Army during the 1880's. The two most significant settlements built during this time were Fort Thornburg (in Uintah County) and Fort Duchesne, soldiers were quickly put to work in the construction of freight roads that connected these forts to established settlements in Wyoming, and also to the towns and markets of northern Utah. During the 1880's, the area was gradually opened up for settlement with the granting of 160 acre parcels under the Homestead Act. Myton, located to the northeast of the project area, started as a trading post on the Uintah Indian Reservation sometime in the mid-1880s. The trading post served a small segment of the Indian population until 1886, when the army constructed a bridge over the Duchesne River (Barton 1998:154). Myton was originally known as Bridge, and quickly changed from a small bustling way-station and Indian trading post to a town of tents and a few wooden buildings prior to the opening of the Uintah Indian Reservation around 1905. The growth of Myton was facilitated by the completion of the supply route that ran through the natural corridor of Nine Mile Canyon. The settlement attracted people from various parts of the world including Denmark, England, Switzerland, Sweden, Wales, and Germany, as well as many states of the Union (Ibid 156).

The origin of the Price-Myton Freight Road begins with the establishment of Fort Duchesne in 1886. The 300 or so troops stationed at this remote fort required a means of acquiring supplies and, as a result, a service route was chosen that essentially linked the fort to the developing market center of Price. Initially, supplies for the Fort were obtained from Union Pacific Railroad stations in Wyoming, following a route that crossed the Uinta Mountains. However, traversing these mountains in the winter time proved hazardous. Thus, soldiers constructed a wagon road and telegraph line to Price, ensuring a year-round supply of provisions for the Fort. At Price, goods awaiting shipment to the Fort were stored in a warehouse monitored by an army quartermaster (Geary 1981: 138). One year after the establishment of Fort Duchesne, records from the army quartermaster indicate that a contract for the haul of two million pounds of supplies (at \$1.12 per hundred) was written (Ibid 1981: 141). With such large government contracts, a busy freighting business was soon established. The use of the road, however, was not restricted to the shipment of government freight, as the road also serviced the communities of Ashley Valley, the Ute Indian Reservation, and Vernal (Watt 1997: 31). Furthermore, a regular mail service between Price and Vernal was established in the late 1880's, with a stagecoach departing Price two times in 1888, and then three times a week by 1889 (Burton 1996: 216). According to Geary (1981: 141), the road was one of the most heavily traveled in eastern Utah for some twenty years.

The business of freighting was given an added boost with the establishment of the Uinta Basin's gilsonite industry. Gilsonite occurs in both a solid and semi-solid state having the structure of hydrocarbon, but is more specifically a bitumen, and is a mineral that has a wide variety of uses (Remington 1959: 283). Gilsonite mines that developed within the Uinta Basin enabled Price-Myton freighters to capitalize on a two-way commerce system, as Watt (1997: 32) states, "Freighters could

load their empty [supply] wagons with 200-pound burlap bags of gilsonite for the return trip to Price, where the bags were loaded onto rail cars and shipped east." In 1905, the Uintah Railway set out to capture the gilsonite trade and so constructed a spur from Mack, Colorado, to Dragon, Utah. This new rail network supplied most of Uinta Basin's transportation needs, signaling the beginning of the end for the freight trade along the Price-Myton route. However, the road was still used for another ten years, albeit at lesser scale, with the government's decision to open the Ute Indian reservation to settlement. Furthermore, Duchesne residents, unhappy with their mail service provided by the Uintah Railway, pushed for the reestablishment of a Vernal - Price route through Nine Mile Canyon. As a result of this request, postal officials began operating a mail and stage line that followed the old freight trade route. However, this lasted for only two years when an alternate route between Vernal and Colton (via Indian Canyon further to the north) was established (Burton 1996: 219). The Fort itself was dismantled in 1910.

Livestock was a primary industry in the region from early on, along with agriculture, timbering, mining, bee keeping, and freighting (Burton 1996). Most of the early Mormon settlers had only a few head of cattle that were grazed in cooperative herds on shared pasture lands. However, large herds of cattle had been seasonally grazed in the region from as early as the 1850s (ibid 108). Before the early 1930s, grazing in the Tavaputs Plateau region, at the southern edge of the Uintah Basin, was mostly unregulated. This, combined with the lush grassland environment of the area at the time, attracted many ranchers with their cattle, horses, and sheep (Barton 1998). By 1893, a record number of cattle were being sold. Sheep quickly became an important commodity, after their introduction to the region in 1879, and by the early 1890s, more sheep were being ranged in the region than cattle (Burton 1996). By 1935, herds of both cattle and sheep were being decreased to halt overgrazing.

## SURVEY METHODOLOGY

An intensive pedestrian survey was performed for this project which is considered 100% coverage. At the proposed well locations a 10 acre parcel was identified, centered on the well pad center stake. The locations were then surveyed by the archaeologist walking parallel transects spaced no more than 10 m (33 ft) apart. The proposed pipeline/access corridors were surveyed to a width of 30 m (100 ft) employing the same methods. Ground visibility was considered good. A total of 116.3 acres was surveyed for cultural resources, of which 115.8 acres occur on Ute Tribal lands (Uintah and Ouray Agency) and 0.5 acres occur on private land.

## INVENTORY RESULTS

The inventory of Bill Barrett Corporation's four proposed well locations with associated access/pipeline corridors resulted in the documentation of a historic site (42Dc2467).

Smithsonian Site No.: 42Dc2467  
Temporary Site No.: 08-164-CR1  
Land Status: Ute Tribal Lands  
NRHP Eligibility: Not Eligible

Description: The site is a moderate size historic camp with an associated trash scatter located atop a ridge within a system of ridges that rise to the south toward Indian Pass. On-site vegetation consist of a pinyon and juniper community. Artifacts include brown glass beer bottles, sun-colored amethyst glass fragments, aqua glass, ceramic vessel fragments, sanitary cans, hole-in-cap cans,

hole-in-top cans, crown bottle caps, milled wood, nails, and bailing wire. One constructed feature (Feature A) was identified. Feature A consists of the remnants of a dugout of unknown function. The dugout measures 5 by 5 ft and is a maximum depth of 16 inches. It is surrounded by milled lumber that is in no discernible construction. The associated wood consists of 2x4's, 2x2's, 1x8's, and a shingle. A log, measuring 5 ft long by 8 inches in diameter, is embedded on the western side of the dugout. Associated artifacts include a tin can for either water or fuel, a chimney pipe fragment and a large can concentration to the south along a rill. The site is likely associated with the historic capped oil well located just southwest of the site which was likely in operation from around 1905 to the 1930s.

## NATIONAL REGISTER OF HISTORIC PLACES EVALUATION

The National Register Criteria for Evaluation of Significance and procedures for nominating cultural resources to the National Register of Historic Places (NRHP) are outlined in 36 CFR 60.4 as follows:

The quality of significance in American history, architecture, archaeology, and culture is present in districts, sites, buildings, structures, and objects of State and local importance that possess integrity of location, design, setting, material, workmanship, feeling, and association, and that they:

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

The inventory of Bill Barrett Corporation's four proposed well locations with associated access/pipeline corridors resulted in the documentation of one new archaeological site (42Dc2467). Site 42Dc2467 is a camp and trash scatter associated with oil exploration activities. Although the site contains several types of artifacts, there remains minimal information to address such research topics as consumer behavior patterns or meaningful trash disposal patterns. Furthermore, the artifact concentrations and feature retains little integrity. Therefore, the site is recommended ineligible to the NRHP because it fails to address Criteria A through D.

## MANAGEMENT RECOMMENDATIONS

The inventory of Bill Barrett Corporation's proposed #14-1-46 BTR, #13-2-46 BTR, #6-12-46 BTR, and #5-13-46 BTR well locations with associated access/pipeline corridors resulted in the documentation of one new archaeological site (42Dc2467). Site 42Dc2467 is a historic camp and trash scatter that is recommended as not eligible to the NRHP. Based on the findings, a determination of "no historic properties affected" pursuant to Section 106, CFR 800 is proposed for this project.

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APPENDIX A:  
INTERMOUNTAIN ANTIQUITIES COMPUTER SYSTEM (IMACS)  
SITE INVENTORY FORMS

On File At:

Utah Division of State History  
Salt Lake City, Utah

# BILL BARRETT CORPORATION

## #13-2-46 BTR

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 2, T4S, R6W, U.S.B.&M.



PHOTO: VIEW OF LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: WESTERLY



- Since 1964 -



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

LOCATION PHOTOS

08 04 08  
MONTH DAY YEAR

PHOTO

TAKEN BY: D.R.

DRAWN BY: Z.L.

REVISED: 00-00-00

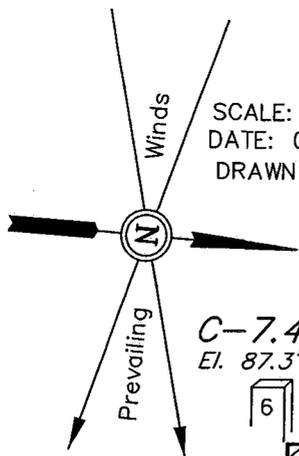
**BILL BARRETT CORPORATION**

LOCATION LAYOUT FOR

FIGURE #1

SCALE: 1" = 60'  
DATE: 07-17-08  
DRAWN BY: C.H.

#13-2-46 BTR  
SECTION 2, T4S, R6W, U.S.B.&M.  
736' FSL 1044' FWL



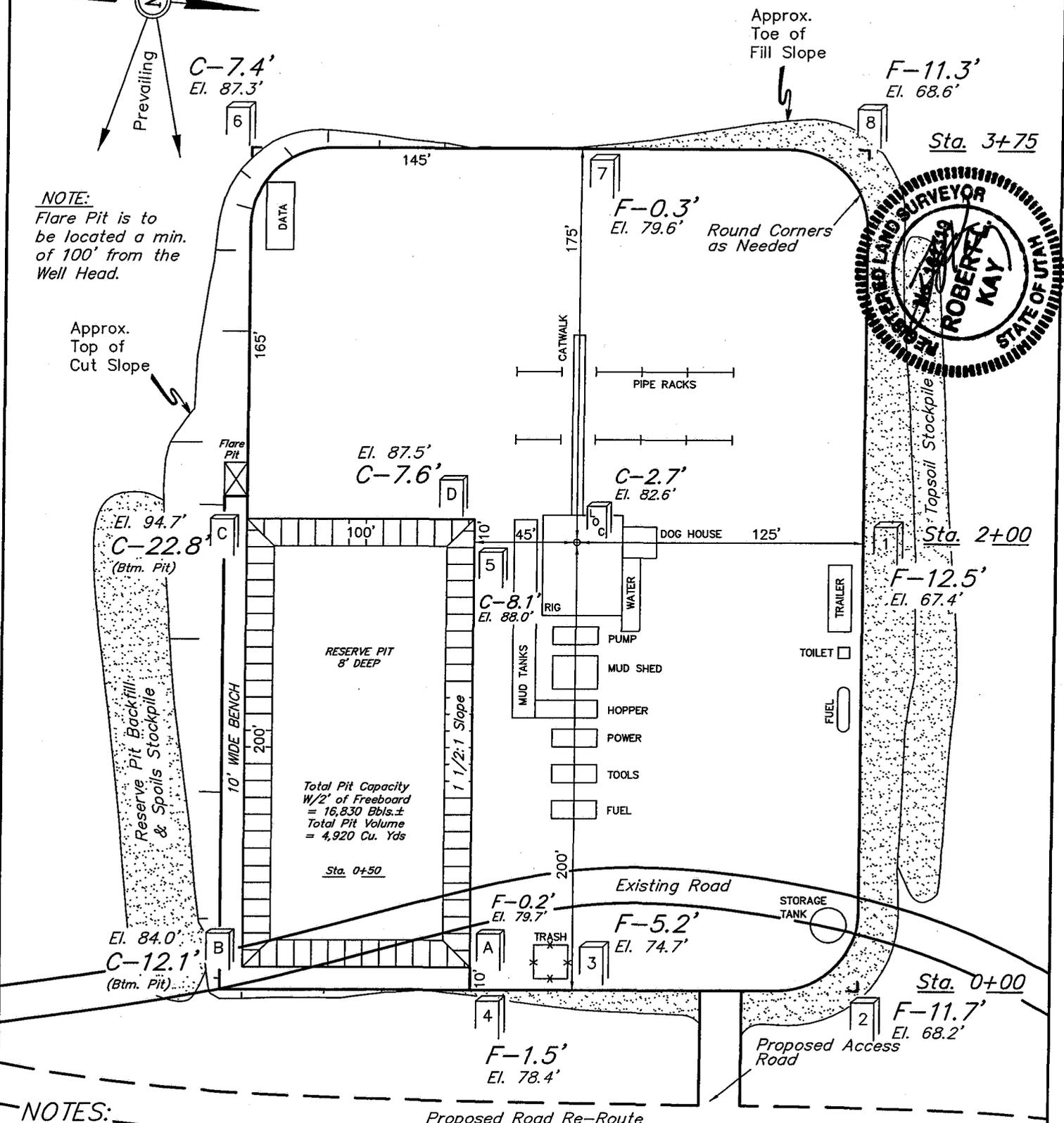
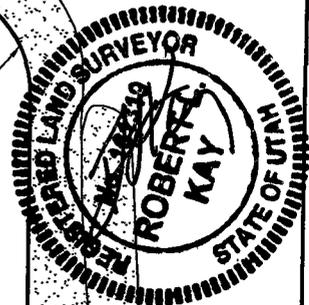
Approx. Toe of Fill Slope

F-11.3'  
El. 68.6'

Sta. 3+75

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

Approx. Top of Cut Slope



**NOTES:**

Elev. Ungraded Ground At Loc. Stake = 5982.6'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5979.9'

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

# BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

#13-2-46 BTR

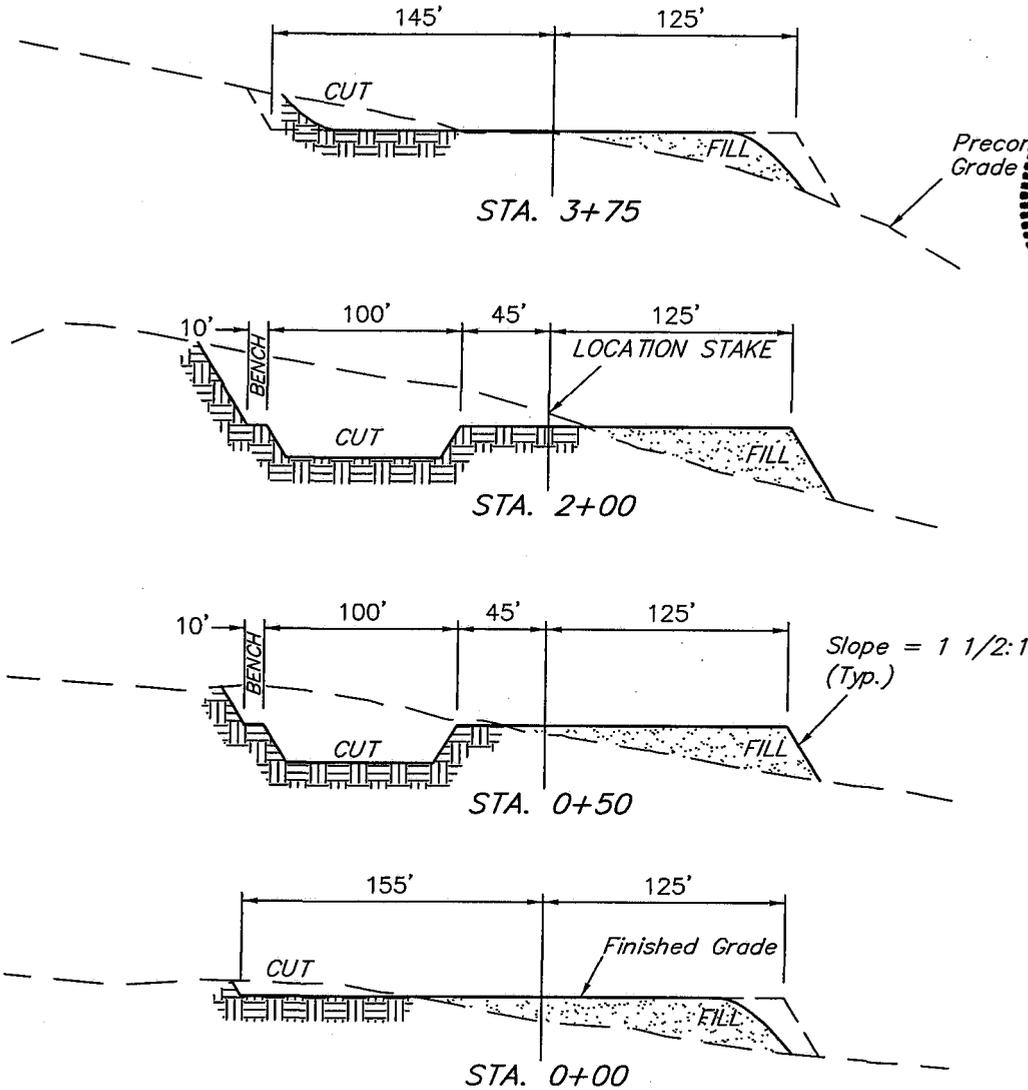
SECTION 2, T4S, R6W, U.S.B.&M.

736' FSL 1044' FWL

FIGURE #2

1" = 40'  
X-Section  
Scale  
1" = 100'

DATE: 07-17-08  
DRAWN BY: C.H.



### APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ±2.777 ACRES

ACCESS ROAD DISTURBANCE = ±0.024 ACRES

ROAD RE-ROUTE DISTURBANCE = ±0.417 ACRES

PIPELINE DISTURBANCE = ±4.212 ACRES

TOTAL = ±7.430 ACRES

### NOTE:

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

### \* NOTE:

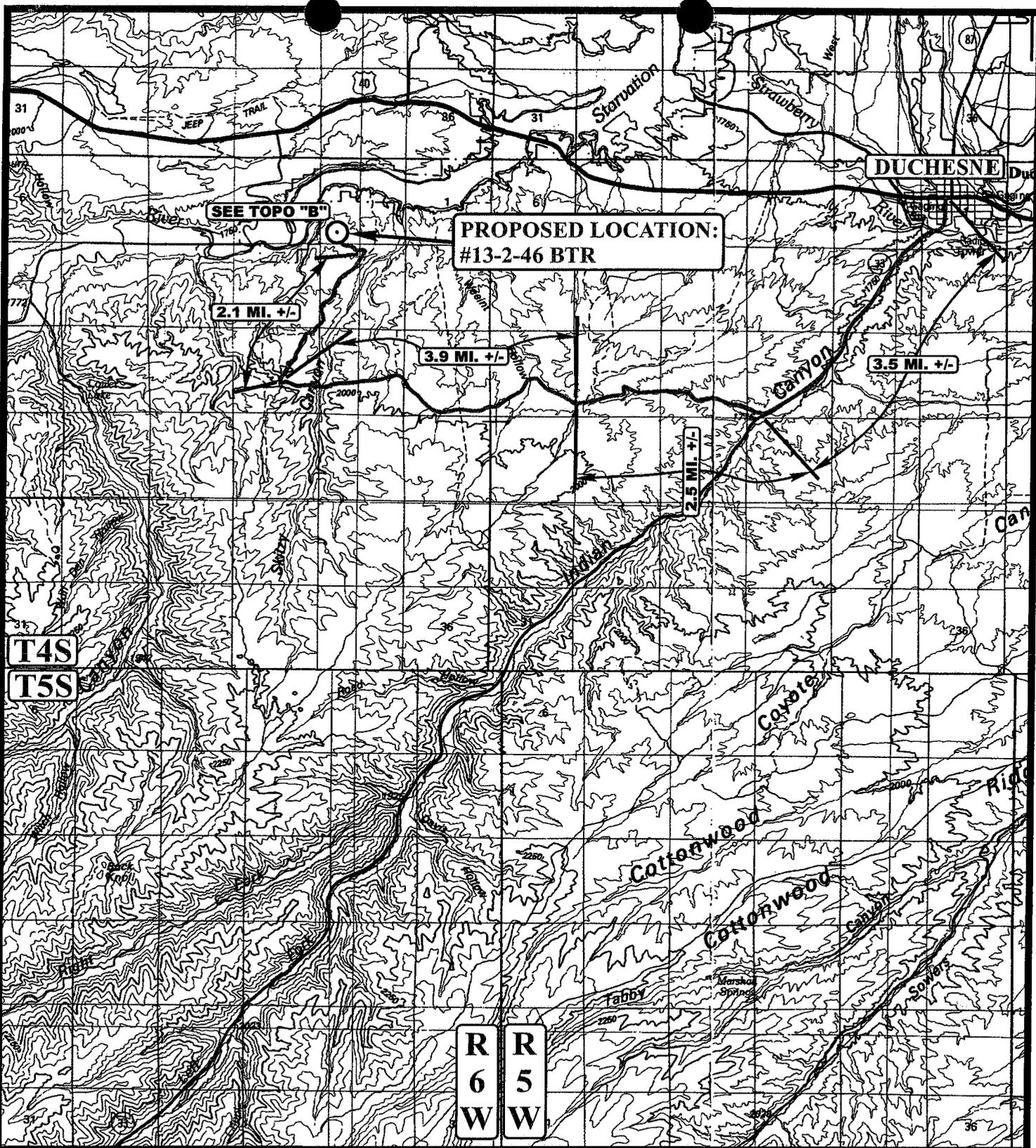
FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT  
(12") Topsoil Stripping = 4,690 Cu. Yds.  
Remaining Location = 17,020 Cu. Yds.  
  
TOTAL CUT = 21,710 CU. YDS.  
FILL = 14,560 CU. YDS.

EXCESS MATERIAL = 7,150 Cu. Yds.  
Topsoil & Pit Backfill = 7,150 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

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



**PROPOSED LOCATION:  
#13-2-46 BTR**

SEE TOPO "B"

2.1 MI. +/-

3.9 MI. +/-

2.5 MI. +/-

3.5 MI. +/-

T4S

T5S

R  
6  
W

R  
5  
W

**LEGEND:**

○ PROPOSED LOCATION



**BILL BARRETT CORPORATION**

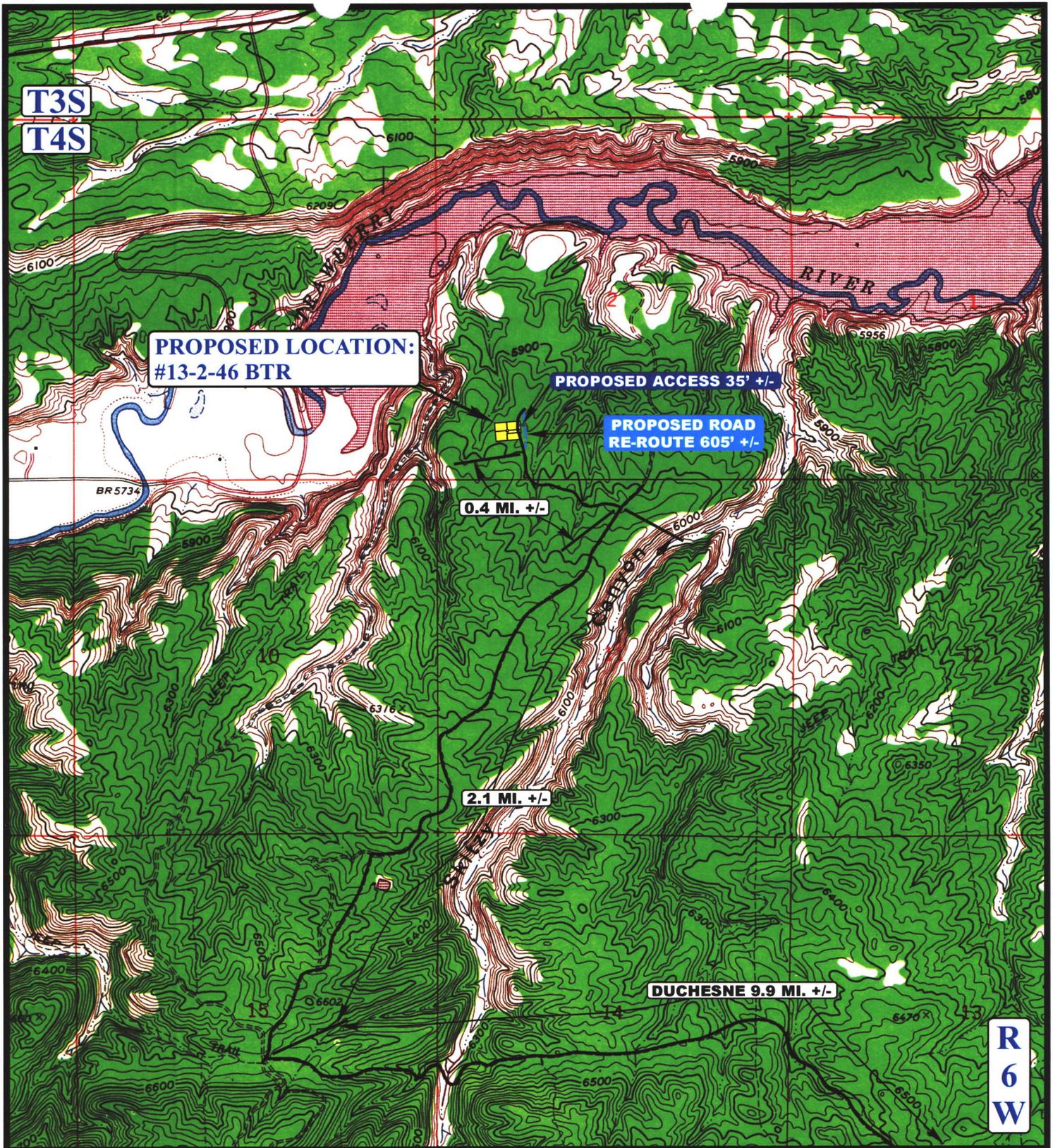
#13-2-46 BTR  
SECTION 2, T4S, R6W, U.S.B.&M.  
736' FSL 1044' FWL



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

TOPOGRAPHIC	08	04	08
MAP	MONTH	DAY	YEAR
SCALE: 1:100,000	DRAWN BY: Z.L.		REVISED: 00-00-00





T3S

T4S

**PROPOSED LOCATION:  
#13-2-46 BTR**

**PROPOSED ACCESS 35' +/-**

**PROPOSED ROAD  
RE-ROUTE 605' +/-**

**0.4 MI. +/-**

**2.1 MI. +/-**

**DUCHESNE 9.9 MI. +/-**

R  
6  
W

**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



**BILL BARRETT CORPORATION**

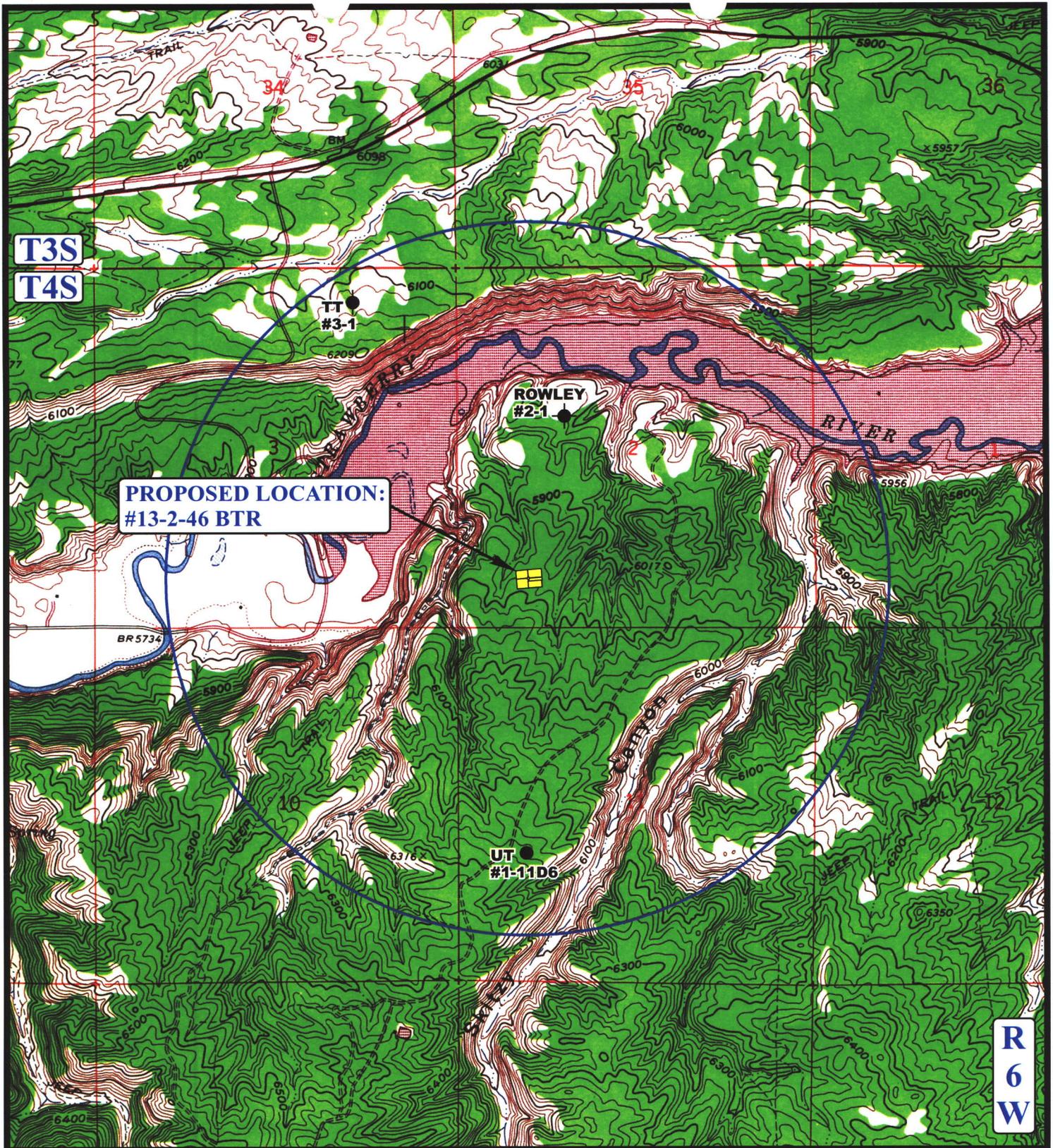
#13-2-46 BTR  
SECTION 2, T4S, R6W, U.S.B.&M.  
736' FSL 1044' FWL



**Uintah Engineering & Land Surveying**  
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(435) 789-1017 \* FAX (435) 789-1813

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





**LEGEND:**

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



**BILL BARRETT CORPORATION**

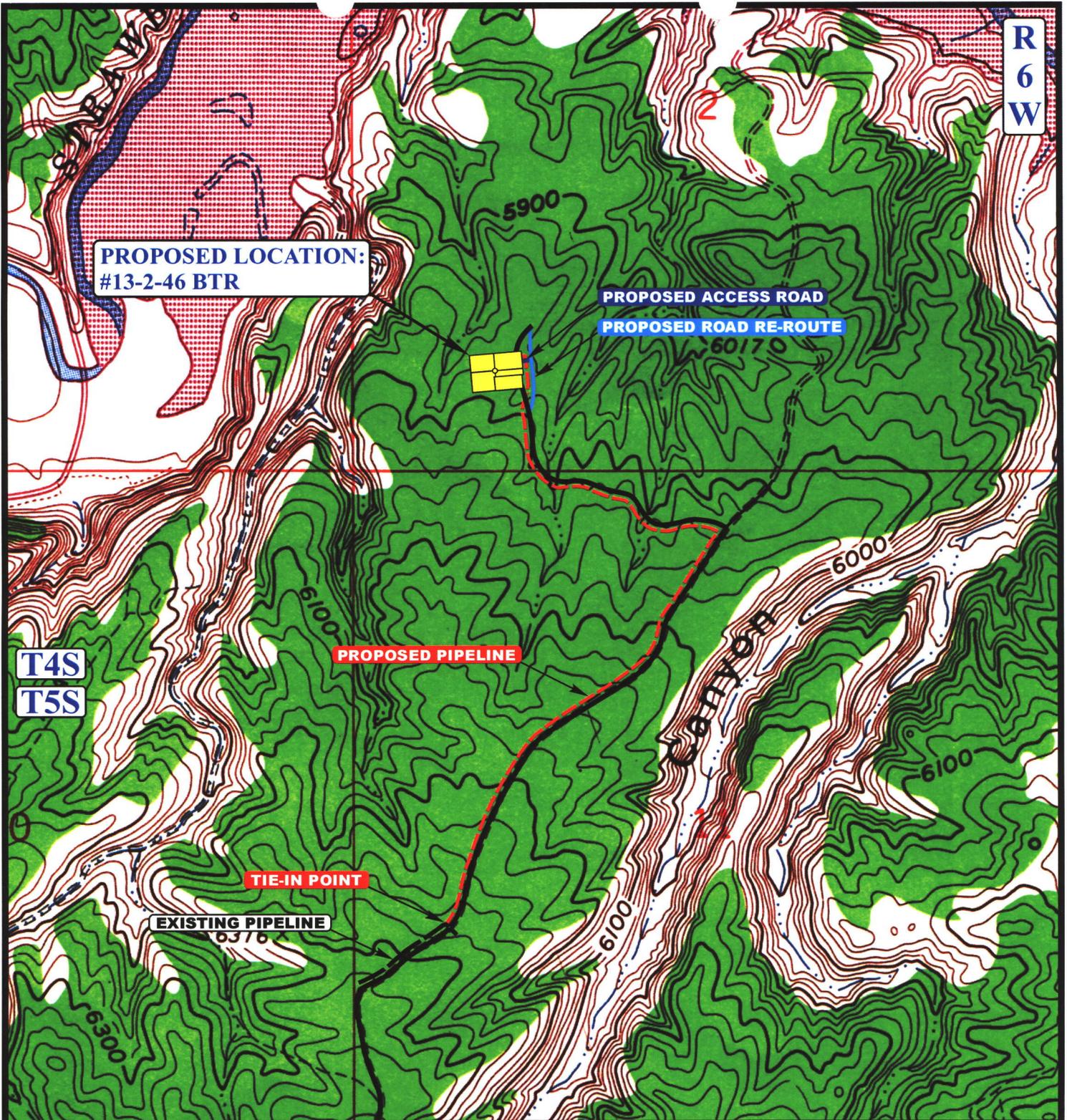
**#13-2-46 BTR**  
**SECTION 2, T4S, R6W, U.S.B.&M.**  
**736' FSL 1044' FWL**



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

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





**APPROXIMATE TOTAL PIPELINE DISTANCE = 6,115' +/-**

**LEGEND:**

-  PROPOSED ROAD RE-ROUTE
-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE
-  EXISTING PIPELINE



**BILL BARRETT CORPORATION**

**#13-2-46 BTR**  
**SECTION 2, T4S, R6W, U.S.B.&M.**  
**736' FSL 1044' FWL**



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

**TOPOGRAPHIC** **08** **04** **08**  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: Z.L. REVISED: 00-00-00



**WORKSHEET  
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 09/15/2008

API NO. ASSIGNED: 43-013-34090

WELL NAME: 13-2-46 BTR  
 OPERATOR: BILL BARRETT CORP ( N2165 )  
 CONTACT: REED HADDOCK

PHONE NUMBER: 303-312-8546

PROPOSED LOCATION:

SWSW 02 040S 060W  
 SURFACE: 0736 FSL 1044 FWL  
 BOTTOM: 0736 FSL 1044 FWL  
 COUNTY: DUCHESNE  
 LATITUDE: 40.15667 LONGITUDE: -110.5352  
 UTM SURF EASTINGS: 539587 NORTHINGS: 4445040  
 FIELD NAME: UNDESIGNATED ( 2 )

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

LEASE TYPE: 2 - Indian  
 LEASE NUMBER: 20G0005608  
 SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSTC  
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. WYB000040 )
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit  
(No. MUNICIPAL )
- 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: 139-42  
Eff Date: 4-12-1985  
Siting: 1660' fr. ext w/dry & 1320' fr other wells
- R649-3-11. Directional Drill

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

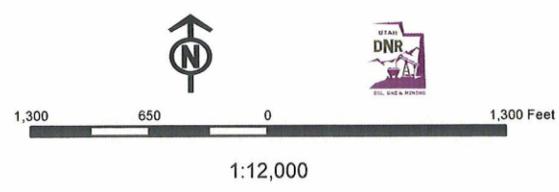
STIPULATIONS: 1- Section Approval  
 \_\_\_\_\_  
 \_\_\_\_\_



**API Number: 4301334090**  
**Well Name: 13-2-46 BTR**  
**Township 04.0 S Range 06.0 W Section 02**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

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





JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

September 30, 2008

Bill Barrett Corporation  
1099 18th St., Ste. 2300  
Denver, CO 80202

Re: 13-2-46 BTR Well, 736' FSL, 1044' FWL, SW SW, Sec. 2, T. 4 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 43-013-34090.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

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

Operator: Bill Barrett Corporation

Well Name & Number 13-2-46 BTR

API Number: 43-013-34090

Lease: 2OG0005608

Location: SW SW                      Sec. 2                      T. 4 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 office      (801) 733-0983 home

3. Reporting Requirements

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

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

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
BIA-EDA-2OG0005608

6. If Indian, Allottee or Tribe Name  
ute Indian Tribe

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

8. Lease Name and Well No.  
# 13-2-46 BTR

9. API Well No.  
Pending 43-013-34090

10. Field and Pool, or Exploratory  
Altamont

11. Sec., T, R, M. or Blk. and Survey or Area  
Sec. 2, T4S, R6W U.S.B.&M.

12. County or Parish  
Duchesne

13. State  
UT

1a. Type of work:  DRILL  REENTER  
1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator Bill Barrett Corporation

3a. Address 1099 18th Street, Suite 2300, Denver, CO  
80202

3b. Phone No. (include area code)  
(303) 312-8546

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
At surface 1044' FWL x 736' FSL, Sec. 2, T4S, R6W  
At proposed prod. zone 1044' FWL x 736' FSL, Sec. 2, T4S, R6W

14. Distance in miles and direction from nearest town or post office\*  
Approximately 12.4 miles southwest of Duchesne, UT

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

16. No. of acres in lease  
N/A

17. Spacing Unit dedicated to this well  
640

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
2,420' abandoned oil well

19. Proposed Depth  
8,002'

20. BLM/BIA Bond No. on file  
Nationwide Bond # WYB000040

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5983' Ungraded Ground

22. Approximate date work will start\*  
01/15/2009

23. Estimated duration  
45 days

24. Attachments

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

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

25. Signature *Reed Haddock* Name (Printed/Typed) Reed Haddock Date 09/11/2008

Title Permit Analyst

Approved by (Signature) *Terry Kenzler* Name (Printed/Typed) Terry Kenzler Date APR 27 2009

Title *Land & Mineral Resources* Office VERNAL FIELD OFFICE

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

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.

(Continued on page 2)

\*(Instructions on page 2)

RECEIVED

MAY 13 2009

DIV. OF OIL, GAS & MINING

UDD6M

09JMO546A

CONDITIONS OF APPROVAL ATTACHED

NOTICE OF APPROVAL



**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:** Bill Barrett Corporation  
**Well No:** 13-2-46 BTR  
**API No:** 43-013-34090

**Location:** SWSW, Sec.2, T4S,R6W  
**Lease No:** BIA EDA 2OG0005608  
**Agreement:** N/A

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545
NRS/Enviro Scientist:	David Gordon	(435) 781-4424	
NRS/Enviro Scientist:	Christine Cimiluca	(435) 781-4475	
NRS/Enviro Scientist:	Lori Ford	(435) 781-4406	

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

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

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

**NOTIFICATION REQUIREMENTS**

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)**

- A 640' by 30' corridor access road right-of-way shall be approved.
- A 6,115' by 30' corridor pipeline right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel should refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

Additional Conditions of Approval

- Stockpile trees along access road.
- Paint equipment Olive Black.
- Use low water crossings on drainages on access road and upgrade to culverts as needed.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- All casing strings below the conductor shall be pressure tested to 0.22 psi/foot or 1500 psi, whichever is greater but not to exceed 70% of the internal yield.
- The production casing cement shall extend a minimum of 200 feet above the surface casing shoe.
- A Cement Bond Log (CBL) shall be run in the production casing from the TD to the top of cement. A field copy of the CBL shall be submitted to the BLM Vernal Field Office for review.

**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.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- 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.
- While actively drilling, 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\\_Welllogs@BLM.gov](mailto:UT_VN_Welllogs@BLM.gov). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### OPERATING REQUIREMENT REMINDERS:

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

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

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: BIA-EDA-2OG0005608
2. NAME OF OPERATOR: BILL BARRETT CORPORATION		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE INDIAN TRIBE
3. ADDRESS OF OPERATOR: 1099 18TH Street, Ste 2300 CITY Denver STATE CO ZIP 80202		7. UNIT or CA AGREEMENT NAME: N/A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 736' FSL, 1044' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSW 2 T4S R6W		8. WELL NAME and NUMBER: #13-2-46 BTR
		9. API NUMBER: 4301334090
		10. FIELD AND POOL, OR WILDCAT: ALTAMONT
		COUNTY: DUCHESNE STATE: UTAH

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

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

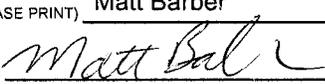
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BILL BARRETT CORPORATION (BBC) REQUESTS A ONE-YEAR EXTENSION ON THE APD FOR THIS LOCATION. THE ORIGINAL APD WAS APPROVED ON 09/30/2008 AND EXPIRES ON 09/30/2009

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: 09-30-09  
By: 

COPY SENT TO OPERATOR  
Date: 10/7/2009  
Initials: KS

NAME (PLEASE PRINT) Matt Barber TITLE Permit Analyst  
SIGNATURE  DATE 9/25/2009

(This space for State use only)

**RECEIVED**  
SEP 29 2009

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

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

**API:** 4301334090  
**Well Name:** #13-2-46 BTR  
**Location:** 736' FSL, 1044' FWL, SWSW, Sec. 2, T4S-R6W  
**Company Permit Issued to:** Bill Barrett Corporation  
**Date Original Permit Issued:** 9/30/2008

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

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

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

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

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

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

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

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

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

  
Signature

9/25/2009  
Date

Title: Permit Analyst

Representing: Bill Barrett Corporation

**RECEIVED**

**SEP 29 2009**

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>  <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 2OG0005608
<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> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT  <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: 9/20/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC is requesting an extension of this APD which expires on 9/30/2010 for one year from the date of expiration. BBC plans to drill this well in 2011.

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

Date: September 28, 2010

By: 

<b>NAME (PLEASE PRINT)</b> Elaine Winick	<b>PHONE NUMBER</b> 303 293-9100	<b>TITLE</b> Sr. Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 9/20/2010



**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 43013340900000**

**API:** 43013340900000

**Well Name:** 13-2-46 BTR

**Location:** 0736 FSL 1044 FWL QTR SWSW SEC 02 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 9/30/2008

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

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

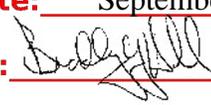
**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Signature:** Elaine Winick

**Date:** 9/20/2010

**Title:** Sr. Permit Analyst **Representing:** BILL BARRETT CORP

**Date:** September 28, 2010

**By:** 

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

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

MAR 17 2011

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

**BLM**

1. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other		5. Lease Serial No. 20G0005608
2. Name of Operator BILL BARRETT CORPORATION		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		7. If Unit or CA/Agreement, Name and/or No.
3b. Phone No. (include area code) Ph: 303-312-8115		8. Well Name and No. 13-2-46 BTR
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 2 T4S R6W SWSW 736FSL 1044FWL		9. API Well No. 43-013-34090-00-X1
		10. Field and Pool, or Exploratory ALTAMONT
		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"/> Subsequent Report	<input type="checkbox"/> Deepen
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Fracture Treat
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Plug and Abandon
	<input type="checkbox"/> Plug Back
	<input type="checkbox"/> Production (Start/Resume)
	<input type="checkbox"/> Reclamation
	<input type="checkbox"/> Recomplete
	<input type="checkbox"/> Temporarily Abandon
	<input type="checkbox"/> Water Disposal
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Well Integrity
	<input checked="" type="checkbox"/> Other Change to Original PD

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

This sundry is being submitted to request a 2 year extension to this APD which expires 4/27/2011. These well is a part of BBC's drilling program and will be drilled later in 2011.

VERNAL FIELD OFFICE

ENG. JD APR 11 2011

GEOL. \_\_\_\_\_

E.S. \_\_\_\_\_

PET. \_\_\_\_\_

RECL. \_\_\_\_\_

**RECEIVED**

APR 18 2011

CONDITIONS OF APPROVAL ATTACHED

DIV. OF OIL, GAS & MINING

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

Electronic Submission #104589 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by ROBIN R. HANSEN on 03/17/2011 (11RRH0851SE)

Name (Printed/Typed) BRADY RILEY	Title PERMIT ANALYST
Signature (Electronic Submission)	Date 03/17/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>[Signature]</u>	Title _____	Date APR 11 2011
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.		Office _____

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.

**UDOGM**

BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

11RRH0851SE

# CONDITIONS OF APPROVAL

## Bill Barret Corporation

### Notice of Intent APD Extension

**Lease:** 2OG0005608  
**Well:** 13-2-46 BTR  
**Location:** SWSW Sec 2-T4S-R6W

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

---

1. The APD extension shall expire on 4/27/2013.
2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Carey Doyle of this office at (435) 781-3406

<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> 20G0005608
<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> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT  <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: 3/1/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input 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.

BBC is requesting an extension of this APD which expires on 9/30/2011, for one year from the date of expiration. This well is currently on the drilling schedule for March 2012.

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

**Date:** 08/31/2011

**By:**

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/30/2011	



**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 43013340900000**

**API:** 43013340900000

**Well Name:** 13-2-46 BTR

**Location:** 0736 FSL 1044 FWL QTR SWSW SEC 02 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 9/30/2008

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

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

**Signature:** Venessa Langmacher

**Date:** 8/30/2011

**Title:** Senior Permit Analyst **Representing:** BILL BARRETT CORP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> 13-2-46 BTR	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013340900000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
		<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: 1/15/2012  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="Pipeline Route"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>This sundry is being submitted to request a pipeline extension for the subject location. The extended pipeline will start in the NW SE of Section 15, east to the tie in point located in the NE SE of Section 14, T4S-R6W. Tribal right of ways have been obtained for Sections 2, 10, 11, and 15 (H62-2011-059 and H62-2012-027) as well as DWR approval and surface agreements in place. Please see attached Topo C of the entire pipeline route along with the right of way approvals.</p>			
<p><b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 11, 2012</b></p>			
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 12/30/2011	



## GRANT OF EASEMENT FOR RIGHT-OF-WAY

**ROW Serial No. H62-2011-059**

TAAMS ID NO.: **6RW2011059**

BIA TRANSACTION NO.: **687-13-00059-11**

Pipeline Corridor – **13-2-46 BTR**

**Page 1 of 2**

### KNOW ALL MEN BY THESE PRESENTS:

That the **UNITED STATES OF AMERICA**, as trustee for UTE INDIAN TRIBE acting by and through the **Superintendent of the Uintah and Ouray Agency**, as "Grantor", under authority contained in 209 DM 8 (39 F.R. 32166), 10 BIAM 3 (34 F.R.637) 230 DM 3 (20 F.R. 992) and Sec. 2.11 (34 F.R. 11109), pursuant and subject to the provisions of the Act of February 5, 1948 Stat. 17, (U.S.C. 323-328), and Part 169, Title 25, Code of Federal Regulations in consideration of:

Zero, (\$0.00) – Pursuant to the Surface Use and Access Agreement between the Ute Indian Tribe and Bill Barrett Corporation dated effective March 1, 2007, and approved by Tribal Resolution No. 06-215, which is acknowledged, does hereby grant to:

**Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver, Colorado 80202**

Its successors and assignees hereinafter referred to as "Grantee" an easement for right-of-way.

In accordance with the attached proposal survey plat: **For the 13-2-46 BTR**

**G.L.O. Plat No. 23246, dated 07/21/08 for Section 10, 11 & 15, Township 4 South, Range 6 West, U.S.B.&M. for the following:**

**Pipeline Corridor: Located in the SE/4SE/4 of Sec 10; and the W/2SW/4 of Sec 11; and the N/2NE/4, SW/4NE/4, NE/4SE/4 of Sec 15, being 6,757.61' in length, and 30' in width, and 4.654 acres, m/l,**  
**Total ROW acreage 4.654, m/l**

Within the exterior boundaries of the Uintah & Ouray Reservation for the following purposes namely: The construction, maintenance, repair, inspection, protection, operation and removal of the **13-2-46 BTR** together with the necessary appurtenances thereto, on, over and across the land embraced within the right-of-way located in Duchesne County, Utah.

TO HAVE AND TO HOLD said easement and right-of-way unto the Grantee and unto its successors and assigns, together with prior existing right or adverse claim and is for the length of **TWENTY (20) YEARS**, beginning **May 12, 2011**, so long as easement shall actually be used for the purposes above specified. Consideration may be increased at five (5) year intervals if necessary to reflect the existing market prices.

This right-of-way shall be terminable in whole or in part by the grantor for any of the following causes upon 30 days' written notice and failure to the Grantee within said notice period to correct the basis of termination (25 CFR 169.20)

- A. Failure to comply with any term or condition of the grant or applicable regulations.
- B. A nonuse of the right-of-way for a consecutive two-year period for the purpose for which it was granted.
- C. An abandonment of the right-of-way. Failure of the Grantee to file with the Grantor an Affidavit of Completion pursuant to 25 CFR 169.16; Upon completion of construction, or in any case within two years of date of this easement granted in the case construction does not begin or is completed.

**ROW Serial No. H62-2011-059**

TAAMS ID NO.: **6RW2011059**

BIA TRANSACTION NO.: 687-13-00059-11

Pipeline Corridor – **13-2-46 BTR**

**Page 2 of 2**

The conditions of this easement shall extend to and be binding upon and shall insure to the benefit of the successors and assignees of the Grantee. It has been determined that approval of this document is not such a major federal action significantly affecting the quality of the human environment as to required the preparation of an environmental impact statement under Section 102 (2)(c) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332) (2) (c).

IN WITNESS WHEREOF, Grantor has executed this Grant of Easement for Right-of-Way this **12<sup>th</sup>** day of **May, 2011**, pursuant to authority delegated to the Assistant Secretary – Indian Affairs by 209 DM 8, 230 DM 1, and to the Western Regional Director by 3 IAM 4 (Release No. 99-03), and to the Superintendent/Field Representatives by 10 BIAM 11, as amended by Western Regional Release No. 97-1 an any further delegation needed to effectuate the reorganization embodied in DM Releases dated April, 2003.

UNITED STATES OF AMERICA  
U.S. Department of the Interior  
Uintah & Ouray Agency  
Fort Duchesne, UT 84026

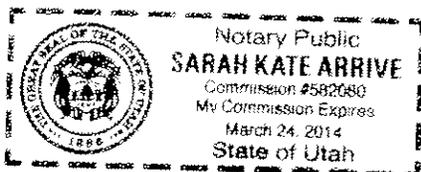
By:   
Acting Superintendent

**ACKNOWLEDGEMENT OF SUPERINTENDENT**

STATE OF UTAH                    )  
  )ss  
COUNTY OF UINTAH            )

The foregoing instrument was acknowledged before me this **12<sup>th</sup>** day of **May, 2011**, by **David Murray Jr.**, Acting Superintendent for the Bureau of Indian Affairs, Uintah & Ouray Agency.

Witness my hand and official seal.



  
\_\_\_\_\_  
Sarah K. Arrive, Notary Public

Commission Exp.: March 24, 2014

## GRANT OF EASEMENT FOR RIGHT-OF-WAY

**ROW Serial No. H62-2012-027**

TAAMS ID NO.: **6RW2012027**

BIA TRANSACTION NO.: **687-13-00027-12**

Pipeline – **13-2-46 BTR**

**Page 1 of 2**

### KNOW ALL MEN BY THESE PRESENTS:

That the **UNITED STATES OF AMERICA**, as trustee for UTE INDIAN TRIBE acting by and through the **Superintendent of the Uintah and Ouray Agency**, as "Grantor", under authority contained in 209 DM 8 (39 F.R. 32166), 10 BIAM 3 (34 F.R.637) 230 DM 3 (20 F.R. 992) and Sec. 2.11 (34 F.R. 11109), pursuant and subject to the provisions of the Act of February 5, 1948 Stat. 17, (U.S.C. 323-328), and Part 169, Title 25, Code of Federal Regulations in consideration of:

Zero, (\$0.00) – As per the terms and conditions pursuant to Bill Barrett's Surface Use and Access Agreement between the Ute Indian Tribe and Bill Barrett Corporation dated effective March 1, 2007 and approved by Tribal Resolution 06-215, which is acknowledged, does hereby grant to:

**Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver, Colorado 80202**

Its successors and assignees hereinafter referred to as "Grantee" an easement for right-of-way.

In accordance with the attached proposal survey plat: **For the 13-2-46 BTR**

**G.L.O. Plat No. 48919-A, dated 07/21/08 for Section 15, Township 4 South, Range 6 West, U.S.B.&M. for the following:**

**Pipeline: Located in the N/2SE/4 of Sec 15, being 2,657.99' in length, and 30' in width, and 1.831 acres, m/l,**  
**Total ROW acreage 1.831, m/l**

Within the exterior boundaries of the Uintah & Ouray Reservation for the following purposes namely: The construction, maintenance, repair, inspection, protection, operation and removal of the **13-2-46 BTR** together with the necessary appurtenances thereto, on, over and across the land embraced within the right-of-way located in Duchesne County, Utah.

TO HAVE AND TO HOLD said easement and right-of-way unto the Grantee and unto its successors and assigns, together with prior existing right or adverse claim and is for the length of **TWENTY (20) YEARS**, beginning **December 15, 2011**, so long as easement shall actually be used for the purposes above specified. Consideration may be increased at five (5) year intervals if necessary to reflect the existing market prices.

This right-of-way shall be terminable in whole or in part by the grantor for any of the following causes upon 30 days' written notice and failure to the Grantee within said notice period to correct the basis of termination (25 CFR 169.20)

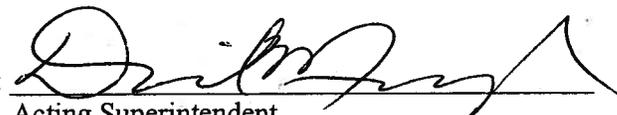
- A. Failure to comply with any term or condition of the grant or applicable regulations.
- B. A nonuse of the right-of-way for a consecutive two-year period for the purpose for which it was granted.
- C. An abandonment of the right-of-way. Failure of the Grantee to file with the Grantor an Affidavit of Completion pursuant to 25 CFR 169.16; Upon completion of construction, or in any case within two years of date of this easement granted in the case construction does not begin or is completed.

**ROW Serial No. H62-2012-027**  
TAAMS ID NO.: 6RW2012027  
BIA TRANSACTION NO.: 687-13-00027-12  
Pipeline – 13-2-46 BTR  
**Page 2 of 2**

The conditions of this easement shall extend to and be binding upon and shall insure to the benefit of the successors and assignees of the Grantee. It has been determined that approval of this document is not such a major federal action significantly affecting the quality of the human environment as to required the preparation of an environmental impact statement under Section 102 (2)(c) of the National Environmental Policy Act of 1969 (42 U.S.C. 4332) (2) (c).

IN WITNESS WHEREOF, Grantor has executed this Grant of Easement for Right-of-Way this 15<sup>th</sup> day of **December, 2011**, pursuant to authority delegated to the Assistant Secretary – Indian Affairs by 209 DM 8, 230 DM 1, and to the Western Regional Director by 3 IAM 4 (Release No. 99-03), and to the Superintendent/Field Representatives by 10 BIAM 11, as amended by Western Regional Release No. 97-1 an any further delegation needed to effectuate the reorganization embodied in DM Releases dated April, 2003.

UNITED STATES OF AMERICA  
U.S. Department of the Interior  
Uintah & Ouray Agency  
Fort Duchesne, UT 84026

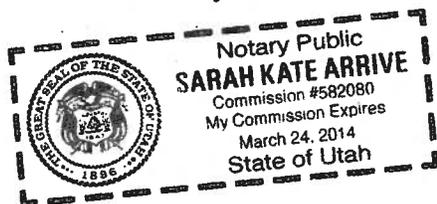
By:   
Acting Superintendent

**ACKNOWLEDGEMENT OF SUPERINTENDENT**

STATE OF UTAH                    )  
  )ss  
COUNTY OF UINTAH            )

The foregoing instrument was acknowledged before me this 15<sup>th</sup> day of **December, 2011**, by **David Murray Jr.**, Acting Superintendent for the Bureau of Indian Affairs, Uintah & Ouray Agency.

Witness my hand and official seal.



Commission Exp.: March 24, 2014

  
Sarah K. Arrive, Notary Public

*ck*

Ent 421677 bk AS88 Pg 290  
Date: 27-JAN-2010 3:12PM  
Fee: \$66.00 Check  
Filed By: CRM  
CAROLYNE MADSEN, Recorder  
DUCESNE COUNTY CORPORATION  
For: BILL BARRETT CORP

## MEMORANDUM OF EASEMENT LEASE AGREEMENT

### INDIAN CANYON WILDLIFE MANAGEMENT AREA

Date: April 13, 2007

Parties: **UTAH DIVISION OF WILDLIFE RESOURCES** and **BILL BARRETT CORPORATION**  
1594 West North Temple, Suite 2110 1099 18th Street, Suite 2300  
Salt Lake City, Utah 84114-6301 Denver, Colorado 80202

Easement  
Number: UDWR Easement Lease No. DUC 0610 EA070.

Duration of  
Easement: Thirty (30) Years, until April 13, 2037.

Purpose: The easement is granted for the purpose of ingress and egress for the construction, installation, operation, maintenance, repair, and replacement as necessary of drill pads, pipelines, and access roads, subject to and in accordance with the Surface Use Plan for Bill Barrett Corporations 2007-2008 Development Program, attached hereto as Exhibit "C". Restrictions and conditions are more specifically set forth in the Easement Lease Agreement between the Parties, in support of Bill Barrett Corporation's oil and gas operations on the burdened property.

Wells: Bill Barrett Corporation #5-3-56 DLB;  
Bill Barrett Corporation #5-27-46 DLB;  
and supporting roads and pipelines.

Lands: **EASEMENT LOCATION AND DESCRIPTION**

The Length of the Project – The Project Length is 32,307.92 feet or 1,958 Rods, and covers 47.503 acres in the area shown on the general location map attached hereto as Exhibit "A". Distances and surface use for the project are shown on the Table of Surface Use, attached hereto as Exhibit "A-1".

Location of Wells and Legal Descriptions – The Pipeline and Roads will cover a fifty (50) foot wide permanent right-of-way, along and being fifteen (15) feet on either side of the center line depicted on the attached Exhibits "B", "B-1", "B-2", "B-3", "B-4" and "B-5". The two Wells are depicted in Exhibits "B-2", "B-4" and "B-5" and are known as the 5-3-56 DLB well (formerly known as the #4 DLB 12-3-56) and the 5-27-46 DLB well.

**BILL BARRETT CORPORATION #5-3-56 DLB**Township 4 South, Range 6 West, U.S.M.

Section 14: Part of the SW

Township 5 South, Range 6 West, U.S.M.

Section 3: Part of the SW, SWNE, S2SE

Section 10: Part of the N2NW

Section 11: Part of the NENW

**Corridor Right-of-Way more particularly described in Exhibit B, B(a), B-3 & B-3(a)****Pipeline Right-of-Way more particularly described in Exhibit B-1 & B-1(a)****Location Damage Use Area & Corridor Right-of-Way more particularly described in Exhibit B-2, B-2(a) & B-2(b)****BILL BARRETT CORPORATION #5-27-46 DLB**Township 4 South, Range 6 West, U.S.M.

Section 14: Part of the SW

Section 27: Part of the NW, SWSW

Section 34: Part of the W2W2, SESW

Township 5 South, Range 6 West, U.S.M.

Section 3: Part of the W2W2

**Corridor Right-of-Way more particularly described in Exhibit B & B(a)****Location Damage Use Area & Corridor Right-of-Way more particularly described in Exhibit B-4, B-4(a), B-5, B-5(a)****EXHIBITS**

A	General Location Map South of Duchesne Utah
A-1	Utah Division of Wildlife Resources Surface Use Table
B	Corridor Right-of-Way for #5-3-56 DLB & #5-27-46 DLB
B-1	Pipeline Right-of-Way for #5-3-56 DLB
B-2	Location Damage Area & Corridor Right-of-Way for #5-3-56 DLB
B-3	Corridor Right-of-Way for #5-3-56 DLB
B-4	Location Damage Area & Corridor Right-of-Way for #5-27-46 DLB
B-5	Location Damage Area & Corridor Right-of-Way for #5-27-46 DLB
C	Surface Use Plan for Bill Barrett Corporation's Development Program Lake Canyon Area

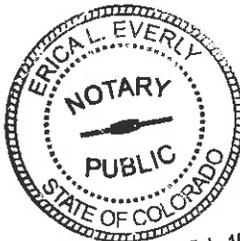
**BILL BARRETT CORPORATION**

By *Huntington T Walker*  
Huntington T. Walker  
Sr. Vice President - Land

Dated: January 4<sup>th</sup>, 2010

STATE OF COLORADO    )  
CITY AND                    ) ss.  
COUNTY OF DENVER    )

On this 4<sup>th</sup> day of January, 2010, personally appeared before me Huntington T. Walker, to me known to be the Sr. Vice President - Land of Bill Barrett Corporation, who executed the within and foregoing instrument, and acknowledged that the execution of the document herein was his free and voluntary act and deed, for the uses and purposes therein mentioned, and gave an oath that he is authorized to execute the within instrument for said corporation.



My Commission Expires Feb. 15, 2010

*Erica L. Everly*  
Notary Public for the State of Colorado

Residing at Denver, CO

My commission expires \_\_\_\_\_

## EXHIBIT A-1

**Bill Barrett Corporation**

## DWR Surface Use Table

Subdivision	Section	Township	Range	Distance in feet	Distance in Miles	Acreage	Plats	Submission Date
								9-13-06 / 10-20-06
NW/4 SW/4	3	5S	6W	(wellsite)	(wellsite)	2.564	47825 / 32218	9/13/2006
NW/4 SW/4	3	5S	6W	118.48	0.02	0.082	47825	10/20/2006
SW/4 SW/4, E/2 SW/4, SW/4 NE/4	3	5S	6W	4,082.27	0.77	5.62	32218	10/20/2006
S/2 S/2	3	5S	6W	4,299.81	0.81	5.92	32218	10/20/2006
N/2 NW/4	10	5S	6W	827.38	0.16	1.14	32218	12/12/2006
NE/4 NW/4	11	5S	6W	1114.68	0.21	1.535	48071	9/13/2006
NE/4	3	5S	6W	2,783.49	0.53	1.917	32200	9/13/2006
NW/4 NW/4	27	4S	6W	(wellsite)	(wellsite)	2.933	32201	9/13/2006
W/2 NW/4, SW/4 SW/4	27	4S	6W	3,255.26	0.62	4.48	32201	9/13/2006
W/2 W/2, SE/4 SW/4	34	4S	6W	5892.5	1.12	8.12	32201	9/13/2006
W/2 W/2	3	5S	6W	5,179.83	0.98	7.13	32201	10/20/2006
NW/4 NW/4	27	4S	6W	1054.15	0.2	1.45	47963	11/24/2006
SW/4 NW/4	27	4S	6W	700.44	0.13	0.482		11/24/2006
N/2 SW/4	14	4S	6W	2,999.63	0.57	4.13	47958-A	
<b>Distance and acreage totals</b>				<b>32307.92</b>	<b>6.12</b>	<b>47.503</b>		

**STATE OF UTAH  
COUNTY OF DUCHESNE**

**SURFACE LAND USE AGREEMENT**

**KNOW ALL MEN BY THESE PRESENTS, THAT:**

**WHEREAS, Marilyn R. Lott, Trustee, whose mailing address is 1310 North 4700 West, Ogden, Utah 84404, (hereinafter referred to as GRANTOR, whether one or more), is the owner of the surface of the following described property located in Duchesne County, Utah, to-wit:**

**TOWNSHIP 4 SOUTH, RANGE 6 WEST, USM**

**Section 14: N1/2SE1/4  
See Exhibits "A" and "B"  
Skltzy Road East**

**WHEREAS, Bill Barrett Corporation., whose address is 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202, (hereinafter referred to as GRANTEE), desires to construct a road and pipeline or pipelines and appurtenances thereto for the transportation of natural gas, water, saltwater and other substances on a portion of said property.**

**WHEREAS, Grantee has agreed to reimburse Grantor for actual damages and injuries to all crops, timber, fences and other improvements located on the surface which results from grantee's operations hereunder, provided that Grantee shall not be held liable or responsible for acts of providence or occurrences beyond Grantee's control, such payment to be made upon commencement of operations to construct the road and pipeline or pipelines; so,**

successors or assigns. Grantee shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

**TO HAVE AND TO HOLD** the above described rights and easements, together with all rights necessary to operate and maintain the natural gas line over the right-of-way hereby granted unto the said Grantee, its successors and assigns, until such time as the right-of-way and easement is abandoned under the terms stipulated herein. The Grantee may assign the rights and easements herein granted, either in whole or in part, subject to the terms of this grant, and such rights and easements shall be covenants running with the land and are binding upon Grantor, Grantor's heirs, legal representatives and successors in title.

Grantee shall repair or replace any fences damaged by them, their employees or contractors with a new fence that will be exactly the same type of fence that is damaged. Grantee shall also reseed the pipeline damaged area with native grasses.

Upon abandonment of the facilities Grantee shall restore such facilities to as near its original condition as possible and shall furnish a recordable document evidencing such abandonment to Grantor, or Grantor's successors in interest, and all rights that Grantee has under the terms of this Agreement shall be terminated.

The making, execution and delivery of this document by Grantor has been induced by no representations, statements, warranties, or other agreements other than those herein expressed. This agreement embodies the entire understanding of the parties, and this instrument may be amended or modified only by subsequent written agreement of the parties.

This agreement shall inure to the benefit of the parties hereto, their heirs, successors, and assigns and shall be a burden running with the land.

**IN WITNESS WHEREOF**, this Surface Land Use Agreement is executed as of the dates of the respective acknowledgments of the parties hereto, but is effective as of the 20<sup>th</sup> day of June, 2011.

**GRANTOR:**

By: Marilyn R. Lott, trustee  
Marilyn R. Lott, trustee

**GRANTEE:**

**BILL BARRETT CORPORATION**

By: Clint W. Turner  
Clint W. Turner, as Agent for Bill Barrett Corporation

ACKNOWLEDGMENTS

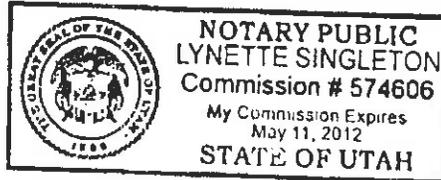
STATE OF Utah  
COUNTY OF weber

On this 11 day of September 2011, before me personally appeared Marilyn R. Lott, Trustee, known to me to be the person who is described in and who executed the within instrument and acknowledged to me that he executed the same.

WITNESS my hand and official seal.

Lynette Singleton  
Notary Public  
Residing at: Ogden UT

My Commission Expires: 3/11/2012

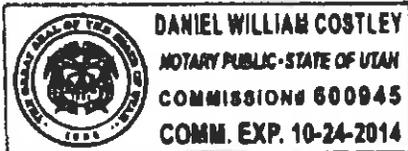


STATE OF UTAH  
COUNTY OF SALT LAKE

On this 7 day of Sept, 2011, personally appeared before me Clint W. Turner, who, being by me duly sworn, did say that he is the Agent for Bill Barrett Corporation and that said instrument was signed in behalf of said corporation by authority of a resolution of its Board of Directors and said Clint W. Turner acknowledged to me that said corporation executed the same.

My Commission Expires: 10-24-2014

Daniel William Costley  
Notary Public  
Residing at: SALT LAKE CITY



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<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> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT  <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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 7/16/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well was spud on 7/16/2012.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 July 26, 2012**

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/17/2012	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling  
Submitted By Tracey Fallang Phone Number 303-312-8134  
Well Name/Number 13-2-46 BTR  
Qtr/Qtr SWSW Section 2 Township 4S Range 6W  
Lease Serial Number 2OG0005608  
API Number 4301334090

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 7/13/2012 8:00 AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time \_\_\_\_\_ AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

RECEIVED  
JUL 11 2012  
DIV. OF OIL, GAS & MINING

Date/Time \_\_\_\_\_ AM  PM

Remarks \_\_\_\_\_  
\_\_\_\_\_

**Carol Daniels - RE: 24 Hr Spud Notice: 13-2-46 BTR** *TOYS ROW S-02 4301334090*

---

**From:** Tracey Fallang <tfallang@billbarrettcorp.com>  
**To:** "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" ...  
**Date:** 7/13/2012 10:19 AM  
**Subject:** RE: 24 Hr Spud Notice: 13-2-46 BTR  
**CC:** Brent Murphy <BMurphy@billbarrettcorp.com>, Venessa Langmacher <vlangmac...>

---

Update here that the spud for this was delayed and is now scheduled to spud on Monday, July 16<sup>th</sup> at 8:00 am.

**From:** Tracey Fallang  
**Sent:** Wednesday, July 11, 2012 2:53 PM  
**To:** 'caroldaniels@utah.gov'; 'dennisingram@utah.gov'; 'richardpowell@utah.gov'; 'ut\_vn\_opreport@blm.gov'; 'leallenb@utetribe.com'  
**Cc:** Brent Murphy; Venessa Langmacher  
**Subject:** 24 Hr Spud Notice: 13-2-46 BTR

Please take this as notice that Triple A Drilling plans to spud the 13-2-46 BTR on Friday, July 13<sup>th</sup> at 8:00 am. See spud notification form attached.

Thanks,

**RECEIVED**  
**JUL 13 2012**  
**DIV. OF OIL, GAS & MINING**

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

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
 Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301334090	13-2-46 BTR		SWSW	2	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18618	7/16/2012			7.18.2012	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:00 am. WSTC							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350899	2-16D-45 BTR		NWNE	16	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	99999	18619	7/5/2012			7.18.2012	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:00 am. GR-WS BHL: nwn							

**Well 3**

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

**ACTION CODES:**

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

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

7/17/2012

Date

**RECEIVED**

JUL 18 2012

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Lawrence Lorenzen Phone Number 435-828-6095  
Well Name/Number 13-2-46 BTR  
Qtr/Qtr SW/SW Section 2 Township 4S Range 6W  
Lease Serial Number FEE  
API Number 43-013-34090

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 7/28/11<sup>12</sup> 0600 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

RECEIVED  
JUL 27 2012  
DIV. OF OIL, GAS & MINING

Date/Time 7/29/11<sup>12</sup> 06:00 AM  PM

Remarks Times are estimates only.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<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> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT  <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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT 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"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

July 2012 monthly drilling activity report is attached.

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

**FOR RECORD ONLY**

August 08, 2012

<b>NAME (PLEASE PRINT)</b> Megan Finnegan	<b>PHONE NUMBER</b> 303 299-9949	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/2/2012	

**13-2-46 BTR 7/23/2012 00:00 - 7/24/2012 18:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	12.00	12:00	1	RIGUP & TEARDOWN	Rigging down rig and moving camps

**13-2-46 BTR 7/24/2012 18:00 - 7/25/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	12.00	06:00	1	RIGUP & TEARDOWN	Rig down and move, Matting boards and substructure set. 75% of rig on location.

**13-2-46 BTR 7/25/2012 06:00 - 7/26/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	Set in rig. Assemble derrick and put on floor. Rig up back yard. Trucks done.

**13-2-46 BTR 7/26/2012 06:00 - 7/27/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	Do pre raise derrick insp. Raise derrick. Rig up floor. Pick up swivel and kelly. Fill mud tanks.
18:00	5.00	23:00	21	P/U Conductor	Cut off conductor and make up conductor tube and flowline.
23:00	5.00	04:00	2	DRILL ACTUAL	Pickup BHA. Drill to 126'. Pickup MWD and orient. Drlg to 199'.

**13-2-46 BTR 7/27/2012 06:00 - 7/28/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drlg 199-807'. Survey @ 742' .98 inc, 262.01 azi MW8.7#/gal 38 vis.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service.
16:30	13.50	06:00	2	DRILL ACTUAL	Drlg 807-1435'. Survey 1338' .15 inc, 1.65.45 azi. MW 8.8#/gal 40 vis. Sliding 30% of ttime.

**13-2-46 BTR 7/28/2012 06:00 - 7/29/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Drlg 1435-1594'. Sliding 25' of each jt to maintain dir, Survey @1496' .58* 274.96 azi. MW8.7#/gal 40 vis
10:00	0.50	10:30	7	LUBRICATE RIG	Rig service
10:30	6.50	17:00	2	DRILL ACTUAL	Drlg 1594-1872'. Sliding 25' each jt. Survey 1.25* 218.12 azi MW8.8#/gal 42 vis.
17:00	1.00	18:00	5	COND MUD & CIRC	Pump sweep to clean hole mix and pump dryjob.
18:00	4.00	22:00	6	TRIPS	TOH, L/D 8" BHA and dir tools.
22:00	8.00	06:00	12	RUN CASING & CEMENT	Rig up Weatherford TRS and run 43 jts 9 5/8" 36# J55 ST&C csg. Land @ 1866'. Fill csg and circulate. Rig down TRS and rig up HES to cmt

**13-2-46 BTR 7/29/2012 06:00 - 7/30/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 3,304.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	12	RUN CASING & CEMENT	HSM Rig up HES. Cmt csg as follows; Perssure test to 3K, Pump 20 bbl fresh water spacer, 40 bbls superflush, 20 bbl water, 151 bbls (270sks) 11# tuned light lead cmt. the 55 bbls (235 sks) 14.8# econocem tail cmt. Drop plug and displace with 140 bbls mud. final pumping pressure 400# bump plug to 500# over floats held, good circulation throughout job 100 bbls to surface. Hole standing full. Run 100' 1" and do 75 sk tob job. WOC.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:30	3.00	14:30	13	WAIT ON CEMENT	WOC
14:30	9.50	00:00	14	NIPPLE UP B.O.P	Cut casing and weld on csg hd. N/U BOP etc. Hook up new choke console
00:00	6.00	06:00	15	TEST B.O.P	Test BOP.

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506  
Submitted By Pat Clark Phone Number 435-828-6095  
Well Name/Number 13-2-46 BTR  
Qtr/Qtr SW/SW Section 2 Township 4S Range 6W  
Lease Serial Number BIA EDA 2OG0005608  
API Number 43-013-34090

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time \_\_\_\_\_ AM  PM

Casing – Please report time casing run starts, not cementing times.

- Surface Casing
- Intermediate Casing
- Production Casing
- Liner
- Other

Date/Time 8/6/11 15:00 AM  PM

BOPE

- Initial BOPE test at surface casing point
- BOPE test at intermediate casing point
- 30 day BOPE test
- Other

RECEIVED

AUG 08 2012

DIV. OF OIL, GAS & MINING

Date/Time \_\_\_\_\_ AM  PM

Remarks Times are estimates only.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<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> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT  <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: 9/5/2012	<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 checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

Due to pipeline size restrictions, Kinder Morgan proposed to upgrade their gathering line. This project was first scheduled to be commenced on June 4th, 2012. Due to scheduling and UDOT timing/permits, this project was started the last week of August. BBC requested and received permission to flare (from all Regulatory/Tribal Agencies) impacted wells during this projects SI period due to the potential of impacting the future performance of said wells from an extended Shut In time frame. Due to delays in the project, two additional wells have been drilled and completed in the meantime and these two wells were inadvertently not included in the initial Sundry process. Completion of these two wells were the last week of August and are in their initial phase of the flowback. Therefore we are requesting permission to flare the subject well along with the others in the Starvation area.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
September 05, 2012**

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/5/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<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>1. TYPE OF WELL</b> Oil Well		<b>7.UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> 13-2-46 BTR
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013340900000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/1/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width:100px;" type="text"/>

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

This well had first oil sales on 9/01/2012.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 September 05, 2012

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/5/2012	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
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<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 13-2-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013340900000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U
	<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT 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"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

August 2012 monthly drilling activity report is attached.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 September 06, 2012

<b>NAME (PLEASE PRINT)</b> Megan Finnegan	<b>PHONE NUMBER</b> 303 299-9949	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/4/2012	

**13-2-46 BTR 8/1/2012 06:00 - 8/2/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	Drlg 3304-3781'. 477' in 7.5 hrs 64 fph. Survey@ 3753' .79*, 52.02 azi. MW 8.8#/gal 38 vis.
13:30	0.50	14:00	7	LUBRICATE RIG	Rig service, function test BOP.
14:00	16.00	06:00	2	DRILL ACTUAL	Drlg 3781-4544'. 763' in 16 hrs 48 fph.Survey @ 4452 .72*, 359.4 azi. MW 8.9#/gal 40 vis

**13-2-46 BTR 8/2/2012 06:00 - 8/3/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill 4544' - 5049'. Wob 21k, rpm 45/76, spp 2000 psi, dp 100 psi, rop 48 fph.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service. Function pipe rams.
17:00	13.00	06:00	2	DRILL ACTUAL	Drill 5049' - 5557'. Wob 21k, rpm 50/76, spp 2000 psi, dp 125 psi, rop 39 fph.

**13-2-46 BTR 8/3/2012 06:00 - 8/4/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill 5557' - 6223'. Wob 21k, rpm 50/76, spp 2000 psi, dp 100 psi, rop 63 fph.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	13.00	06:00	2	DRILL ACTUAL	Drill 6223' - 6593'. Wob 21k, rpm 50/76, spp 2000 psi, dp 100 psi, rop 28 fph.

**13-2-46 BTR 8/4/2012 06:00 - 8/5/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill 6593' - 7174'. wob 21k, rpm 49/74, spp 1900 psi, dp 100 psi, rop 61 fph. Bop drill - flow check - function pipe rams.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service.
16:00	11.00	03:00	2	DRILL ACTUAL	Drill 7174' - 7690'. wob 21k, rpm 49/74, spp 1900 psi, dp 100 psi, rop 47 fph. TD Well @ 7690' @ 03:00.
03:00	2.00	05:00	5	COND MUD & CIRC	C&C mud f/wiper trip. Pump sweep, pill.
05:00	1.00	06:00	6	TRIPS	Wiper trip to shoe. Hole in good shape.

**13-2-46 BTR 8/5/2012 06:00 - 8/6/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	Finish WT. Hole in good shape.
09:30	2.00	11:30	5	COND MUD & CIRC	C&C f/logs. Sweep hole, pump pill. 15' flare on BU.
11:30	4.50	16:00	6	TRIPS	Toh f/logs. L/D Dir tools.
16:00	6.00	22:00	11	WIRELINE LOGS	Hsm. R/U HES and run quad combo, gamma to surface. R/D HES.
22:00	4.50	02:30	6	TRIPS	Tih. Hole in good shape.
02:30	2.50	05:00	5	COND MUD & CIRC	C&C to lddp. Run sweep, pump pill.
05:00	1.00	06:00	6	TRIPS	HSM w/Weatherford TRS. R/U laydown machine & lddp.

**13-2-46 BTR 8/6/2012 06:00 - 8/7/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	6	TRIPS	Lddp. Break kelly. L/D Bha. Pull Wear bushing.
12:00	7.00	19:00	12	RUN CASING & CEMENT	HSM. R/U & run 5 1/2", 17#, P-110, Ltc csg as follows: Float shoe, 2 jts csg, Float collar, 10 jts csg, mj @ 7136', 18 jts csg, mj @ 6326', 28 jts csg, mj @ 5050', 117 jts csg(175 total). P/U jt # 176 & tag bottom @ 7690', l/d jt # 176). R/D TRS.
19:00	4.00	23:00	5	COND MUD & CIRC	C&C f/cmt. Run sweep.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
23:00	3.00	02:00	12	RUN CASING & CEMENT	Pressure test pump & Lines to 5K. Pump 10 bbl water spacer, 40 bbls superflush 101, 20 bbl water spacer, Pump 232 bbls (560 sks) 11# tuned light lead cmt. Pump 154 bbls (610 sks) 13.5 # tail cmt. Displace with 176 bbls water with Cla-web and aldacide g. Full returns until lost returns 125 bbls into displacement. No cement to surface. Final lift pressure 1700 #, bump plug 500 over. Check floats, held, bled back 2 bbls. HSM RD HES.	
02:00	4.00	06:00	14	NIPPLE UP B.O.P	NDBOP. Lift up bop and Cameron set slips w/ 172 k(25 k over string wt.). Made rough cut, installed night cap. Clean pits, release rig @ 06:00.	

**13-2-46 BTR 8/9/2012 06:00 - 8/10/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Clean Out Cellar Ring	

**13-2-46 BTR 8/10/2012 06:00 - 8/11/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	6.00	12:00	LOCL	Lock Wellhead & Secure	Well Secured With 11" Night Cap. BackFill Cellar	
12:00	2.00	14:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides. N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16" x 5k Gate Valves. Tested Hanger Seals To 7500 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.	
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.	

**13-2-46 BTR 8/12/2012 06:00 - 8/13/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	GOP	General Operations	WSI And Secured.	
07:00	0.92	07:55	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.	
07:55	3.08	11:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 7,569', Drilling Report Shows FC At 7,597', 28' Of Fill. POOH, P/U CBL Tool, Rih To PBSD, 7,569', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 08-05-2012. Run Repeat Section From 7,569 - 7,340', Log Up Hole. Showed Good Bond From TD To 4350', 4350' - 1450' Fair. TOC 1450'. Ran With Pressure. Found Short Joints At 7,127 - 7,148, 6,318 - 6,341 And 5,085 - 5,106'. Pooh, RD Equipment, MOL.	
11:00	19.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured	

**13-2-46 BTR 8/20/2012 06:00 - 8/21/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00		06:00	GOP	General Operations	HSM. Move in and spot FBT. Spot Sand Trap. Plumb in flow lines. Nu Frac Mandrel, Frac Valves, Frac Head. Pres test Csg to 8500. Pres test flow lines. Well shut in and secure	

**13-2-46 BTR 8/21/2012 06:00 - 8/22/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00		06:00	GOP	General Operations	Move in frac tanks and start filling	

**13-2-46 BTR 8/22/2012 06:00 - 8/23/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Finish Setting Frac Line. Filling Frac Line With 2% And Produced Water. Production Crew Working On Facilities.	

**13-2-46 BTR 8/23/2012 06:00 - 8/24/2012 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-34090	Utah	Duchesne	Black Tail Ridge	COMPLETION	7,690.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Finish Filling 2% KCL Tanks. Con't Filling Prod. Water Tanks. Production Crew Working On Facilities. HES Set Manifold.	

**13-2-46 BTR 8/24/2012 06:00 - 8/25/2012 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-34090	Utah	Duchesne	Black Tail Ridge	COMPLETION	7,690.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Finish Filling Produced Water Tanks. Heat KCL Tanks. HES Spot Movers. Production Crew Working On Facilities.	

**13-2-46 BTR 8/25/2012 06:00 - 8/26/2012 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-34090	Utah	Duchesne	Black Tail Ridge	COMPLETION	7,690.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI And Secured. 0 Psi. On Well.	
07:00	2.00	09:00	SRIG	Rig Up/Down	SLB WireLine Arrive On Location, Hold Safety Meeting. Rig Up Equipment. Pick Up Lubricator, Arm Gun, Rig Up To Well.	
09:00	1.00	10:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012. Found And Correlated To Marker Joint At 7,127 - 7,148'. Drop Down To Depth, Perforate Stage 1 CR-5/CR-4A/CR-4 Zone, 7,212 - 7,500'. 54 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
10:00	3.00	13:00	SRIG	Rig Up/Down	HES On Location At 10:00 Hrs. Rig Up Equipment	
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.	

**13-2-46 BTR 8/26/2012 06:00 - 8/27/2012 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-34090	Utah	Duchesne	Black Tail Ridge	COMPLETION	7,690.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0500 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.	
06:00	0.09	06:05	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.	



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:05	1.58	07:40	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16  Open Well, 70 Psi. ICP. BrokeDown At 9.7 Bpm And 2,799 Psi..  Pump 3900 Gals. 15% HCL And 108 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 71.1 Bpm And 3,045 Psi., Get ISIP, 2,059 Psi.. 0.72 Psi./Ft.  F.G.. 54/54 Holes.  Con't With SlickWater Pad, 46,471 Gals..  Stage Into X-Link Pad, On Perfs., 71.0 Bpm At 3,245 Psi., 11,696 Gals.  Stage Into 2# 20/40 White, On Perfs., 70.4 Bpm At 2,934 Psi., 8,271 Gals.  Stage Into 3# 20/40 White, On Perfs., 70.4 Bpm At 2,689 Psi.,21,217 Gals.  Stage Into 3.5# 20/40 White, On Perfs., 70.3 Bpm At 2,586 Psi.,9,213 Gals.  Stage Into 4# 20/40 White, On Perfs., 70.3 Bpm At 2,521 Psi., 9,784 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,105 Psi.. 0.73 Psi./Ft.  F.G.. WSI And Secured.  Total 20/40 White - 145,100#  Total Clean - 126,673 Gals.. (3,016 Bbls..) 60,181 Gals. 2% KCL(1,433 Bbls.) 64,462  Gals. Produced Water(1,535 Bbls.)  BWTR - 3,169 Bbls.  Max. Rate - 71.5 Bpm  Avg. Rate - 70.5 Bpm  Max. Psi. - 3,261 Psi.  Avg. Psi. - 2,803 Psi.</p>
07:40	0.25	07:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:55	1.08	09:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf,  .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral  Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012.  Found And Correlated To Marker Joint At 6,318 - 6,341'.  Drop Down To Depth, Set CBP At 7,203'. 2,000 Psi..  Perforate Stage 2 CR-4/CR-3 Zone, 6,960 - 7,183'. 45 Holes. 1,600 Psi.  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:00	0.25	09:15	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
09:15	2.25	11:30	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16  Open Well, 1629 Psi. ICP. BrokeDown At 10.2 Bpm And 1,989 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 71.1 Bpm And 3,236 Psi., Get ISIP, 1,795 Psi.. 0.69 Psi./Ft.  F.G.. 37/45 Holes.  Con't With SlickWater Pad, 50,121 Gals..  Stage Into X-Link Pad, On Perfs., 71.3 Bpm At 3,300 Psi., 12,665 Gals.  Stage Into 2# 20/40 White, On Perfs., 70.5 Bpm At 3,085 Psi., 8,068 Gals.  Stage Into 3# 20/40 White, On Perfs., 70.5 Bpm At 2,829 Psi.,25,170 Gals.  Stage Into 3.5# 20/40 White, On Perfs., 70.5 Bpm At 2,720 Psi.,9,002 Gals.  Stage Into 4# 20/40 White, On Perfs., 70.5 Bpm At 2,664 Psi., 9,534 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,060 Psi.. 0.73 Psi./Ft.  F.G.. WSI And Secured.  Total 20/40 White - 155,200#  Total Clean - 131,891 Gals.. (3,140 Bbls..) 64,439 Gals. 2% KCL(1,534 Bbls.) 67,503  Gals. Produced Water(1,607 Bbls.)  BWTR - 3,364 Bbls.  Max. Rate - 72.8 Bpm  Avg. Rate - 70.7 Bpm  Max. Psi. - 3,365 Psi.  Avg. Psi. - 2,921 Psi.</p>
11:30	0.25	11:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
11:45	1.17	12:55	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf,  .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral  Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012.  Found And Correlated To Marker Joint At 6,318 - 6,341'.  Drop Down To Depth, Set CBP At 6,949'. 1,800 Psi..  Perforate Stage 3 CR-2 Zone, 6,697 - 6,931'. 45 Holes. 1,800 Psi.  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
12:55	0.17	13:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:05	1.42	14:30	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 16 Open Well, 1575 Psi. ICP. BrokeDown At 9.0 Bpm And 2,556 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 65.8 Bpm And 4,204 Psi., Get ISIP, 1,766 Psi.. 0.70 Psi./Ft. F.G.. 23/45 Holes. Con't With SlickWater Pad, 49,121 Gals.. Stage Into X-Link Pad, On Perfs., 71.3 Bpm At 3,325 Psi., 12,567 Gals. Stage Into 2# 20/40 White, On Perfs., 70.3 Bpm At 3,100 Psi., 7,733 Gals. Stage Into 3# 20/40 White, On Perfs., 70.5 Bpm At 2,816 Psi.,26,048 Gals. Stage Into 3.5# 20/40 White, On Perfs., 70.6 Bpm At 2,710 Psi.,8,715 Gals. Stage Into 4# 20/40 White, On Perfs., 70.5 Bpm At 2,652 Psi., 9,321 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,070 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White - 155,500# Total Clean - 133,107 Gals.. (3,169 Bbls..) 64,384 Gals. 2% KCL(1,533 Bbls.) 66,840 Gals. Produced Water(1,591 Bbls.) BWTR - 3,314 Bbls. Max. Rate - 71.3 Bpm Avg. Rate - 70.6 Bpm Max. Psi. - 3,356 Psi. Avg. Psi. - 2,919 Psi.
14:30	0.25	14:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:45	1.08	15:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012. Found And Correlated To Marker Joint At 6,318 - 6,341'. Drop Down To Depth, Set CBP At 6,688'. 1,900 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 6,449 - 6,668'. 42 Holes. 1,100 Psi. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:50	0.08	15:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
15:55	1.33	17:15	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1230 Psi. ICP. BrokeDown At 9.3 Bpm And 2,680 Psi.. Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 71.2 Bpm And 3,002 Psi., Get ISIP, 1,574 Psi.. 0.68 Psi./Ft. F.G.. 37/42 Holes. Con't With SlickWater Pad, 46,121 Gals.. Stage Into X-Link Pad, On Perfs., 71.2 Bpm At 3,113 Psi., 12,023 Gals. Stage Into 2# 20/40 White, On Perfs., 70.3 Bpm At 2,872 Psi., 7,368 Gals. Stage Into 3# 20/40 White, On Perfs., 70.4 Bpm At 2,591 Psi.,23,699 Gals. Stage Into 3.5# 20/40 White, On Perfs., 70.5 Bpm At 2,445 Psi.,8,427 Gals. Stage Into 4# 20/40 White, On Perfs., 70.5 Bpm At 2,393 Psi., 8,559 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,759 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White - 145,200# Total Clean - 125,768 Gals.. (2,994 Bbls..) 60,076 Gals. 2% KCL(1,430 Bbls.) 63,605 Gals. Produced Water(1,514 Bbls.) BWTR - 3,143 Bbls. Max. Rate - 71.3 Bpm Avg. Rate - 70.6 Bpm Max. Psi. - 3,132 Psi. Avg. Psi. - 2,678 Psi.
17:15	0.17	17:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:25	1.08	18:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012. Found And Correlated To Marker Joint At 6,318 - 6,341'. Drop Down To Depth, Set CBP At 6,438'. 1,500 Psi.. Perforate Stage 5 CR-1A/Castle Peak Zone, 6,200 - 6,414'. 42 Holes. 1,200 Psi. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:30	0.50	19:00	GOP	General Operations	ShutDown And Secure Equipment.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**13-2-46 BTR 8/27/2012 06:00 - 8/28/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.84	06:50	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0500 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:50	0.25	07:05	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
07:05	1.42	08:30	FRAC	Frac. Job	<p>Frac Stage 5. Fluid System: Hybor G 16            Open Well, 708 Psi. ICP. BrokeDown At 4.7 Bpm And 2,363 Psi..            Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall.            Get Stabilized Injection Of 71.4 Bpm And 2,827 Psi., Get ISIP, 1,486 Psi.. 0.67 Psi./Ft.            F.G.. 39/42 Holes.            Con't With SlickWater Pad, 51,775 Gals..            Stage Into .75# 100 Mesh, On Perfs., 71.3 Bpm At 2,855 Psi., 19,609 Gals.            Stage Into 1# 20/40 White, On Perfs., 70.8 Bpm At 2,812 Psi., 7,222 Gals.            Stage Into 2# 20/40 White, On Perfs., 70.6 Bpm At 2,637 Psi., 7,205 Gals.            Stage Into 3# 20/40 White, On Perfs., 70.6 Bpm At 2,499 Psi., 26,990 Gals.            Stage Into 3.5# 20/40 White, On Perfs., 70.6 Bpm At 2,399 Psi., 8,213 Gals.            Stage Into 4# 20/40 White, On Perfs., 70.6 Bpm At 2,365 Psi., 8,382 Gals.            Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,886 Psi.. 0.74 Psi./Ft.            F.G.. WSI And Secured.            Total 100 Mesh - 14,600#            Total 20/40 White - 160,000#            Total Clean - 147,164 Gals.. (3,504 Bbls..) 77,621 Gals. 2% KCL(1,848 Bbls.) 67,675 Gals. Produced Water(1,611 Bbls.)            BWTR - 3,682 Bbls.            Max. Rate - 71.4 Bpm            Avg. Rate - 70.8 Bpm            Max. Psi. - 2,904 Psi.            Avg. Psi. - 2,615 Psi.</p>
08:30	0.25	08:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:45	1.08	09:50	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .            Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012.            Found And Correlated To Marker Joint At 5,085 - 5,106'.            Drop Down To Depth, Set CBP At 6,190'. 2,000 Psi..            Perforate Stage 6 Castle Peak Zone, 5,900 - 6,168'. 45 Holes. 1,400 Psi.            POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:50	0.08	09:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
09:55	1.42	11:20	FRAC	Frac. Job	<p>Frac Stage 6. Fluid System: Hybor G 16            Open Well, 1249 Psi. ICP. BrokeDown At 9.7 Bpm And 1,759 Psi..            Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.            Get Stabilized Injection Of 71.2 Bpm And 3,378 Psi., Get ISIP, 1,284 Psi.. 0.65 Psi./Ft.            F.G.. 27/45 Holes.            Con't With SlickWater Pad, 51,620 Gals..            Stage Into .75# 100 Mesh, On Perfs., 69.8 Bpm At 2,862 Psi., 19,305 Gals.            Stage Into 1# 20/40 White, On Perfs., 69.5 Bpm At 2,404 Psi., 6,934 Gals.            Stage Into 2# 20/40 White, On Perfs., 69.3 Bpm At 2,227 Psi., 6,932 Gals.            Stage Into 3# 20/40 White, On Perfs., 69.3 Bpm At 2,085 Psi., 28,025 Gals.            Stage Into 3.5# 20/40 White, On Perfs., 69.2 Bpm At 1,986 Psi., 7,917 Gals.            Stage Into 4# 20/40 White, On Perfs., 69.3 Bpm At 1,934 Psi., 8,477 Gals.            Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,443 Psi.. 0.68 Psi./Ft.            F.G.. WSI And Secured.            Total 100 Mesh - 14,200#            Total 20/40 White - 160,500#            Total Clean - 146,577 Gals.. (3,490 Bbls..) 77,590 Gals. 2% KCL(1,847 Bbls.) 66,929 Gals. Produced Water(1,594 Bbls.)            BWTR - 3,661 Bbls.            Max. Rate - 70.2 Bpm            Avg. Rate - 69.4 Bpm            Max. Psi. - 2,888 Psi.            Avg. Psi. - 2,271 Psi.</p>
11:20	0.17	11:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
11:30	1.00	12:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes . Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012. Found And Correlated To Marker Joint At 5,085 - 5,106'. Drop Down To Depth, Set CBP At 5,894'. 1,300 Psi.. Perforate Stage 7 Black Shale Zone, 5,694 - 5,874'. 39 Holes. 1,300 Psi. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
12:30	2.25	14:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. 4" Ground Valve Leaking. Had To Meet HotShot With Replacement, Down 2 Hrs.. Equalize, Open To Well.	
14:45	1.25	16:00	FRAC	Frac. Job	Frac Stage 7. Fluid System: Hybor G 16 Open Well, 1139 Psi. ICP. BrokeDown At 9.8 Bpm And 1,828 Psi.. Pump 3900 Gals. 15% HCL And 78 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 71.3 Bpm And 2,838 Psi., Get ISIP, 1,375 Psi.. 0.68 Psi./Ft. F.G.. 35/39 Holes. Con't With SlickWater Pad, 41,620 Gals.. Stage Into .75# 100 Mesh, On Perfs., 71.2 Bpm At 2,731 Psi., 15,867 Gals. Stage Into 1# 20/40 White, On Perfs., 70.5 Bpm At 2,769 Psi., 6,652 Gals. Stage Into 2# 20/40 White, On Perfs., 70.4 Bpm At 2,562 Psi., 6,624 Gals. Stage Into 3# 20/40 White, On Perfs., 70.3 Bpm At 2,414 Psi., 19,124 Gals. Stage Into 3.5# 20/40 White, On Perfs., 70.5 Bpm At 2,314 Psi., 7,636 Gals. Stage Into 4# 20/40 White, On Perfs., 70.5 Bpm At 2,294 Psi., 6,704 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,607 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured. Total 100 Mesh - 12,480# Total 20/40 White - 128,680# Total Clean - 122,176 Gals.. (2,909 Bbls..) 62,607 Gals. 2% KCL(1,491 Bbls.) 56,699 Gals. Produced Water(1,350 Bbls.) BWTR - 3,048 Bbls. Max. Rate - 71.4 Bpm Avg. Rate - 70.6 Bpm Max. Psi. - 2,882 Psi. Avg. Psi. - 2,554 Psi.	
16:00	0.33	16:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.	
16:20	1.00	17:20	PFRT	Perforating	RIH With 3 1/8" Sinker Bars And CBP Assembly. Correlating To HES Spectral Density/Dual Spaced Neutron Dated 08/05/2012 And SLB CBL/CCL Dated 08/12/2012. Found And Correlated To Marker Joint At 5,085 - 5,106'. Drop Down To Depth, Set CBP At 5,650'. 1,400 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools. WSI And Secured.	
17:20	2.00	19:20	SRIG	Rig Up/Down	HES And SLB RigDown Equipment, MOL.	
19:20	10.67	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water For WorkOver.	

**13-2-46 BTR 8/28/2012 06:00 - 8/29/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.	
07:00	1.00	08:00	RMOV	Rig Move	ROAD RIG F/ 16-26-36 TO LOATION. SPOT IN EQUIPMENT.	
08:00	1.00	09:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.	
09:00	1.00	10:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOP./U FLOOR & EQUIPMENT.	
10:00	1.00	11:00	GOP	General Operations	SPOT CAT WALK & PIPE RACKS. LOAD 2-7/8 TBG ON RACKS & TALLY.	
11:00	4.00	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & XN- NIPPLE. RIH W/ BHA P/U NEW 2-7/8 TBG TO KILL PLUG @ 5650. R/U SWIVEL & CIRC EQUIPMENT. SWIFN.	
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN. CREW TRAVEL.	

**13-2-46 BTR 8/29/2012 06:00 - 8/30/2012 06:00**

API/UWI 43-013-34090	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 7,690.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	Crew Travel.	
07:00	1.00	08:00	TRIP	Tripping	Sitp 0, Sicip 0. Cont rih w/ 4-3/4" bit and pobs as meas and pu 2-7/8" N-80 tbg. Ru Drlg equip. Est Circ of Pumping 2 bpm and returning 3-1/2 bpm as d/o plugs.	



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
08:00	8.00	16:00	DOPG	Drill Out Plugs	D/O Plugs. #1- no sand. Drill out cbp at 5650' in 30 min. Fcp at 900 psi. #2- No sand. Drill out cbp at 5894' in 30 min. Fcp at 800 psi. #3- C/o 67' sand to cbp at 6191'. D/o in 30 min. Fcp at 700 psi. #4- C/o 23' sand to cbp at 6435'. D/o in 30 min. Fcp at 800 psi. #5- C/o 117' sand to cbp at 6680'. D/o in 30 min. Fcp at 750 psi. #6- C/o 91' sand to cbp at 6949'. D/o in 40 min. Fcp at 700 psi. #7- C/o 10' sand to cbp at 7203'. D/o in 40 min. Fcp at 650 psi. PBTD- Tag Sand and plug remains at 7398'. C/o 199' sand to FC at 7597'. Drill out FC and 45' cmt to 7642'.
16:00	1.50	17:30	PULT	Pull Tubing	Rd Pwr Swivel. PooH as LD 61-jts tbg. Eot at 5640'. Sdfn w/ Csg flowing under FBC watch.
17:30	12.50	06:00	FBCK	Flowback Well	Flow well under FBC watch.

<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>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>PHONE NUMBER:</b> 303 312-8164 Ext	<b>8. WELL NAME and NUMBER:</b> 13-2-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U	<b>9. API NUMBER:</b> 43013340900000
	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
	<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 9/11/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well had first gas sales on 9/11/2012.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 October 02, 2012**

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/2/2012	

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
20G0005608

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator **BILL BARRETT CORPORATION** Contact: **MEGAN FINNEGAN**  
 E-Mail: **mfinnegan@billbarrettcorp.com**

8. Lease Name and Well No.  
13-2-46 BTR

3. Address **1099 18TH STREET SUITE 2300 DENVER, CO 80202** 3a. Phone No. (include area code)  
 Ph: **303-299-9949**

9. API Well No.  
43-013-34090

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **SWSW 736FSL 1044FWL**  
 At top prod interval reported below **SWSW 761FSL 1026FWL**  
 At total depth **SWSW 730FSL 994FWL** **BHL by HSM**

10. Field and Pool, or Exploratory  
ALTAMONT

11. Sec., T., R., M., or Block and Survey or Area  
Sec 2 T4S R6W Mer UBM

12. County or Parish **DUCHESNE** 13. State **UT**

14. Date Spudded **07/16/2012** 15. Date T.D. Reached **08/05/2012** 16. Date Completed  
 D & A  Ready to Prod. **09/01/2012**

17. Elevations (DF, KB, RT, GL)\*  
5983 GL

18. Total Depth: MD **7690** TVD **7688** 19. Plug Back T.D.: MD **7598** TVD **7596** 20. Depth Bridge Plug Set: MD  TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**CBL, MUD, BOREHOLE** 22. Was well cored?  No  Yes (Submit analysis)  
 Was DST run?  No  Yes (Submit analysis)  
 Directional Survey?  No  Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80	80			0	
12.250	9.625 J-55	36.0	0	1872	1866	505	386	0	
8.750	5.500 P-110	17.0	0	7690	7686	1170	486	1478	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	5640							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	5696	6414	5696 TO 6414	0.360	126	OPEN
B) WASATCH	6449	7500	6449 TO 7500	0.360	186	OPEN
C)						
D)						

26. Perforation Record

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

Depth Interval	Amount and Type of Material
5696 TO 6414	GREEN RIVER: SEE TREATMENT STAGES 5-7
6449 TO 7500	WASATCH: SEE TREATMENT STAGES 1-4

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/01/2012	09/02/2012	24	▶	684.0	1214.0	557.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI	980	▶	684	1214	557	1775	POW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)  
 ELECTRONIC SUBMISSION #155324 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
 \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED  
OCT 24 2012

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Mcas. Depth
				GREEN RIVER	1979
				MAHOGANY	2608
				DOUGLAS CREEK	4838
				BLACK SHALE	5689
				CASTLE PEAK	5921
				UTELAND BUTTE	6198
				WASATCH	6428
				TD	7690

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. CBL mailed due to file size. Conductor was cemented with grout. First oil sales was on 9/1/2012. Attached is Treatment Data.

33. Circle enclosed attachments:

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

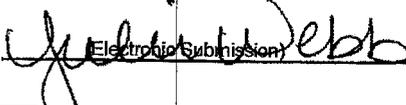
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #155324 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) MEGAN FINNEGAN

Title PERMIT ANALYST

Signature



Date 10/18/2012

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.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**13-2-46 BTR Completion Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>			
<b>AMOUNT AND TYPE OF MATERIAL</b>			
<b><i>Stage</i></b>	<b><i>BBS Slurry</i></b>	<b><i>lbs 100 Mesh Sand</i></b>	<b><i>lbs CRC Sand</i></b>
1	3,174		145,100
2	3,364		155,100
3	3,337		155,500
4	3,150		145,200
5	3,697	14,600	160,000
6	3,678	14,200	160,500
7	3,040	12,480	128,680

\*Depth intervals for frac information same as perforation record intervals.

**Bill Barrett Corp**  
Duchesne County, UT (NAD 1927)  
Sec. 2-T4S-R6W  
13-2-46 BTR

**Plan A**

**Design: MWD Survey**

# **Sperry Drilling Services**

## **Final Survey Report**

**15 October, 2012**

Well Coordinates: 665,590.80 N, 2,269,650.19 E (40° 09' 24.25" N, 110° 32' 06.86" W)  
Ground Level: 5,980.00 ft

Local Coordinate Origin:	Centered on Well 13-2-46 BTR
Viewing Datum:	KB @ 5996.00ft (Patterson 506)
TVDs to System:	N
North Reference:	True
Unit System:	API - US Survey Feet - Custom

Geodetic Scale Factor Applied  
Version: 2003.16 Build: 431

**HALLIBURTON**

## Design Report for 13-2-46 BTR - MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
133.00	0.27	81.28	133.00	0.05	0.31	-0.31	0.20
<b>First MWD Survey</b>							
193.00	0.24	113.65	193.00	0.02	0.56	-0.56	0.24
253.00	0.98	185.24	253.00	-0.54	0.63	-0.57	1.55
314.00	0.89	168.99	313.99	-1.53	0.68	-0.50	0.46
376.00	0.67	184.18	375.98	-2.36	0.74	-0.47	0.48
437.00	0.69	202.06	436.98	-3.06	0.58	-0.23	0.35
498.00	0.81	226.48	497.97	-3.69	0.13	0.29	0.55
559.00	0.97	247.14	558.97	-4.19	-0.66	1.13	0.58
620.00	1.11	261.55	619.96	-4.48	-1.72	2.22	0.48
681.00	0.92	263.46	680.95	-4.62	-2.79	3.30	0.32
742.00	0.98	262.01	741.94	-4.75	-3.80	4.31	0.11
804.00	0.84	229.41	803.93	-5.12	-4.67	5.22	0.85
865.00	1.01	228.57	864.92	-5.77	-5.41	6.03	0.28
927.00	1.11	239.56	926.91	-6.43	-6.34	7.03	0.36
989.00	0.89	256.98	988.90	-6.85	-7.32	8.05	0.60
1,053.00	0.47	273.76	1,052.90	-6.94	-8.07	8.80	0.72
1,116.00	0.37	336.91	1,115.90	-6.74	-8.41	9.12	0.71
1,179.00	0.47	316.18	1,178.89	-6.36	-8.67	9.33	0.29
1,242.00	0.18	296.38	1,241.89	-6.13	-8.93	9.57	0.49
1,306.00	0.17	71.48	1,305.89	-6.06	-8.93	9.56	0.51
1,369.00	0.27	198.80	1,368.89	-6.17	-8.89	9.53	0.63
1,433.00	0.43	247.48	1,432.89	-6.40	-9.16	9.83	0.51
1,496.00	0.58	274.96	1,495.89	-6.47	-9.70	10.37	0.45
1,559.00	0.61	254.52	1,558.89	-6.53	-10.34	11.01	0.34
1,623.00	0.74	219.90	1,622.88	-6.94	-10.93	11.65	0.66
1,686.00	0.79	217.04	1,685.88	-7.59	-11.46	12.24	0.10
1,750.00	1.03	219.13	1,749.87	-8.39	-12.08	12.96	0.38
1,806.00	1.25	218.12	1,805.86	-9.26	-12.78	13.75	0.39
1,914.00	1.55	231.36	1,913.83	-11.10	-14.65	15.81	0.41
1,977.00	1.07	232.74	1,976.81	-11.99	-15.78	17.04	0.76
2,040.00	0.64	23.74	2,039.81	-12.02	-16.11	17.37	2.63
2,104.00	0.14	13.64	2,103.80	-11.62	-15.95	17.16	0.79
2,167.00	0.17	344.42	2,166.80	-11.46	-15.95	17.15	0.13
2,230.00	1.00	30.78	2,229.80	-10.89	-15.70	16.83	1.41
2,294.00	0.78	34.50	2,293.79	-10.06	-15.16	16.21	0.36
2,357.00	0.67	56.64	2,356.79	-9.50	-14.61	15.60	0.47
2,421.00	0.95	68.81	2,420.78	-9.10	-13.81	14.75	0.51
2,484.00	1.03	31.92	2,483.77	-8.43	-13.02	13.89	1.00
2,548.00	0.69	356.20	2,547.77	-7.56	-12.74	13.52	0.97
2,611.00	0.59	311.23	2,610.76	-6.97	-13.01	13.72	0.79
2,674.00	0.98	339.83	2,673.76	-6.25	-13.44	14.06	0.86
2,738.00	1.25	2.24	2,737.74	-5.04	-13.60	14.08	0.79
2,801.00	0.67	356.46	2,800.73	-3.98	-13.60	13.96	0.93
2,865.00	0.89	4.84	2,864.73	-3.11	-13.58	13.84	0.39
2,928.00	1.90	18.14	2,927.71	-1.63	-13.21	13.31	1.67
2,991.00	1.90	7.36	2,990.68	0.39	-12.75	12.63	0.57
3,055.00	1.39	349.47	3,054.65	2.21	-12.76	12.43	1.12
3,119.00	1.79	2.47	3,118.62	3.97	-12.86	12.32	0.84

## Design Report for 13-2-46 BTR - MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
3,182.00	2.12	8.01	3,181.59	6.11	-12.65	11.88	0.60
3,245.00	1.82	1.47	3,244.55	8.26	-12.46	11.45	0.59
3,309.00	1.81	3.63	3,308.52	10.29	-12.37	11.13	0.11
3,372.00	1.53	357.81	3,371.49	12.12	-12.34	10.89	0.52
3,436.00	1.07	339.06	3,435.48	13.53	-12.59	10.97	0.97
3,499.00	0.74	359.03	3,498.47	14.49	-12.81	11.08	0.72
3,563.00	1.06	16.79	3,562.46	15.47	-12.64	10.81	0.66
3,626.00	1.25	14.66	3,625.45	16.69	-12.30	10.33	0.31
3,690.00	1.15	29.33	3,689.43	17.93	-11.81	9.70	0.50
3,753.00	0.79	52.02	3,752.42	18.74	-11.16	8.96	0.83
3,817.00	0.17	182.06	3,816.42	18.92	-10.81	8.60	1.42
3,880.00	0.51	271.60	3,879.42	18.84	-11.10	8.89	0.85
3,944.00	0.74	280.84	3,943.42	18.92	-11.79	9.57	0.39
4,007.00	0.72	299.95	4,006.41	19.20	-12.53	10.27	0.39
4,070.00	1.00	314.65	4,069.41	19.78	-13.26	10.93	0.56
4,134.00	1.21	335.86	4,133.39	20.79	-13.94	11.49	0.71
4,197.00	1.07	340.76	4,196.38	21.95	-14.40	11.82	0.27
4,261.00	1.05	340.36	4,260.37	23.07	-14.80	12.09	0.03
4,325.00	1.18	349.42	4,324.36	24.27	-15.12	12.27	0.34
4,388.00	0.82	350.50	4,387.35	25.35	-15.31	12.33	0.57
4,452.00	0.72	359.44	4,451.34	26.20	-15.39	12.32	0.24
4,515.00	0.45	16.78	4,514.34	26.84	-15.32	12.18	0.51
4,578.00	0.95	217.35	4,577.34	26.66	-15.57	12.44	2.19
4,642.00	1.80	220.45	4,641.32	25.47	-16.54	13.54	1.33
4,705.00	1.91	218.40	4,704.28	23.90	-17.83	15.01	0.20
4,768.00	1.63	210.93	4,767.25	22.30	-18.95	16.30	0.58
4,832.00	1.33	201.90	4,831.23	20.83	-19.69	17.20	0.59
4,895.00	1.03	175.72	4,894.22	19.59	-19.92	17.57	0.97
4,959.00	0.75	161.08	4,958.21	18.62	-19.74	17.50	0.56
5,022.00	0.20	259.90	5,021.21	18.21	-19.72	17.53	1.28
5,085.00	0.70	327.97	5,084.21	18.52	-20.03	17.80	1.04
5,149.00	1.24	349.20	5,148.20	19.53	-20.37	18.02	1.00
5,212.00	1.56	350.43	5,211.18	21.05	-20.64	18.12	0.51
5,275.00	1.23	330.13	5,274.16	22.48	-21.12	18.43	0.94
5,339.00	0.99	328.10	5,338.15	23.54	-21.75	18.94	0.38
5,403.00	1.21	359.00	5,402.14	24.69	-22.06	19.11	0.97
5,466.00	1.55	22.26	5,465.12	26.14	-21.74	18.64	1.03
5,529.00	1.87	39.45	5,528.09	27.72	-20.77	17.49	0.95
5,593.00	0.98	50.70	5,592.07	28.88	-19.68	16.28	1.45
5,656.00	0.60	85.47	5,655.07	29.24	-18.94	15.50	0.94
5,720.00	1.21	156.34	5,719.06	28.65	-18.33	14.96	1.81
5,783.00	1.96	169.78	5,782.04	26.98	-17.87	14.70	1.32
5,847.00	1.71	169.08	5,846.00	24.97	-17.50	14.55	0.39
5,910.00	2.37	170.09	5,908.96	22.76	-17.10	14.40	1.05
5,974.00	2.29	173.42	5,972.91	20.19	-16.72	14.32	0.25
6,037.00	1.74	174.04	6,035.87	17.99	-16.48	14.33	0.87
6,101.00	1.48	215.45	6,099.85	16.35	-16.86	14.89	1.82
6,164.00	2.08	236.54	6,162.82	15.05	-18.28	16.46	1.39
6,227.00	2.56	234.02	6,225.77	13.60	-20.37	18.70	0.78
6,290.00	2.13	234.10	6,288.71	12.08	-22.46	20.95	0.68
6,354.00	1.79	259.61	6,352.68	11.21	-24.41	22.98	1.45

**Design Report for 13-2-46 BTR - MWD Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6,417.00	2.48	280.19	6,415.63	11.27	-26.72	25.27	1.62
6,481.00	2.82	299.80	6,479.57	12.30	-29.45	27.86	1.50
6,544.00	2.47	343.57	6,542.51	14.37	-31.18	29.34	3.17
6,608.00	2.21	358.32	6,606.45	16.93	-31.60	29.48	1.02
6,671.00	1.53	345.57	6,669.42	18.95	-31.85	29.49	1.26
6,735.00	1.19	323.52	6,733.40	20.32	-32.45	29.94	0.97
6,798.00	0.86	303.20	6,796.39	21.10	-33.24	30.63	0.77
6,861.00	0.71	269.08	6,859.39	21.35	-34.02	31.38	0.77
6,925.00	0.98	243.37	6,923.38	21.10	-34.91	32.29	0.72
6,988.00	1.21	228.96	6,986.37	20.42	-35.89	33.35	0.57
7,052.00	1.51	217.74	7,050.35	19.31	-36.92	34.49	0.62
7,115.00	1.99	208.51	7,113.32	17.70	-37.95	35.70	0.88
7,178.00	2.45	206.45	7,176.27	15.53	-39.07	37.06	0.74
7,242.00	2.57	204.41	7,240.21	13.00	-40.27	38.54	0.23
7,305.00	2.03	214.28	7,303.16	10.79	-41.49	39.99	1.06
7,369.00	2.36	214.91	7,367.11	8.77	-42.88	41.61	0.52
7,432.00	2.72	211.33	7,430.05	6.43	-44.40	43.38	0.62
7,496.00	3.06	209.88	7,493.97	3.65	-46.04	45.33	0.54
7,559.00	3.16	209.37	7,556.88	0.68	-47.73	47.34	0.16
7,631.00	3.27	207.66	7,628.76	-2.87	-49.66	49.66	0.20
<b>Final MWD Survey</b>							
7,690.00	3.27	207.66	7,687.67	-5.85	-51.22	51.55	0.00
<b>Survey Projection to TD</b>							

**Design Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
133.00	133.00	0.05	0.31	First MWD Survey
7,631.00	7,628.76	-2.87	-49.66	Final MWD Survey
7,690.00	7,687.67	-5.85	-51.22	Survey Projection to TD

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
TD	No Target (Freehand)	263.49	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
133.00	7,690.00	Sperry MWD Surveys	MWD

**Design Report for 13-2-46 BTR - MWD Survey**

**Targets**

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
13-2-46	0.00	0.00	7,675.00	0.00	0.00	665,590.80	2,269,650.19	40° 9' 24.250 N	110° 32' 6.860 W
- actual wellpath misses target center by 51.12ft at 7675.70ft MD (7673.39 TVD, -5.12 N, -50.84 E)									
- Polygon									
Point 1				-100.00	100.00	665,689.71	2,269,549.13		
Point 2				100.00	100.00	665,691.87	2,269,749.10		
Point 3				100.00	-76.00	665,515.89	2,269,751.00		
Point 4				-100.00	-76.00	665,513.73	2,269,551.02		
Point 5				-100.00	100.00	665,689.71	2,269,549.13		
13-2-46	0.00	0.00	0.00	0.00	0.00	665,590.80	2,269,650.19	40° 9' 24.250 N	110° 32' 6.860 W
- actual wellpath hits target center									
- Polygon									
Point 1				-200.00	-76.00	665,512.66	2,269,451.04		
Point 2				200.00	-76.00	665,516.97	2,269,850.98		
Point 3				-200.00	-76.00	665,512.66	2,269,451.04		

# HALLIBURTON

## North Reference Sheet for Sec. 2-T4S-R6W - 13-2-46 BTR - Plan A

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to KB @ 5996.00ft (Patterson 506). Northing and Easting are relative to 13-2-46 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is 111° 30' 0.000 W°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991455

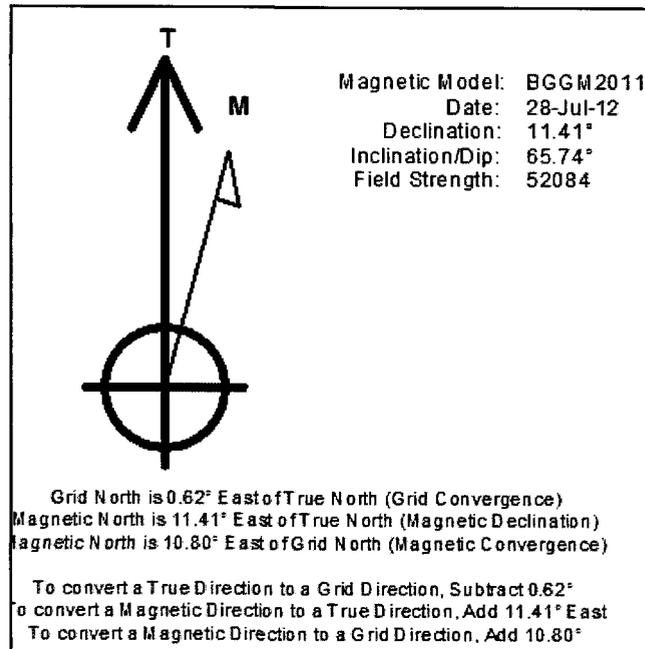
Grid Coordinates of Well: 665,590.80 ft N, 2,269,650.19 ft E

Geographical Coordinates of Well: 40° 09' 24.25" N, 110° 32' 06.86" W

Grid Convergence at Surface is: 0.62°

Based upon Minimum Curvature type calculations, at a Measured Depth of 7,690.00ft  
the Bottom Hole Displacement is 51.55ft in the Direction of 263.49° (True).

Magnetic Convergence at surface is: -10.80° (28 July 2012, , BGGM2011)



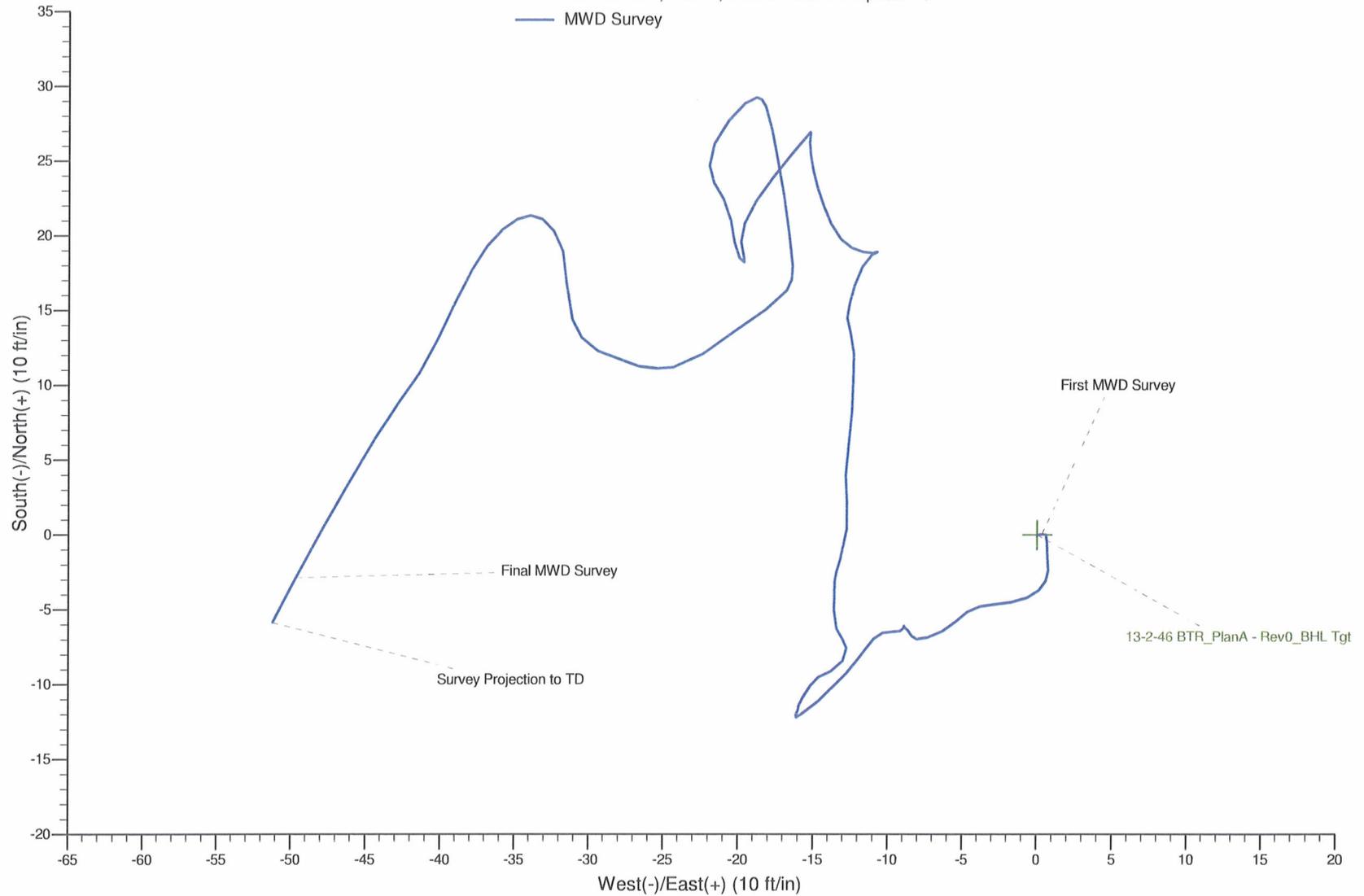
Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 2-T4S-R6W  
Well: 13-2-46 BTR

# Bill Barrett Corp

**HALLIBURTON**  
Sperry Drilling

## LEGEND

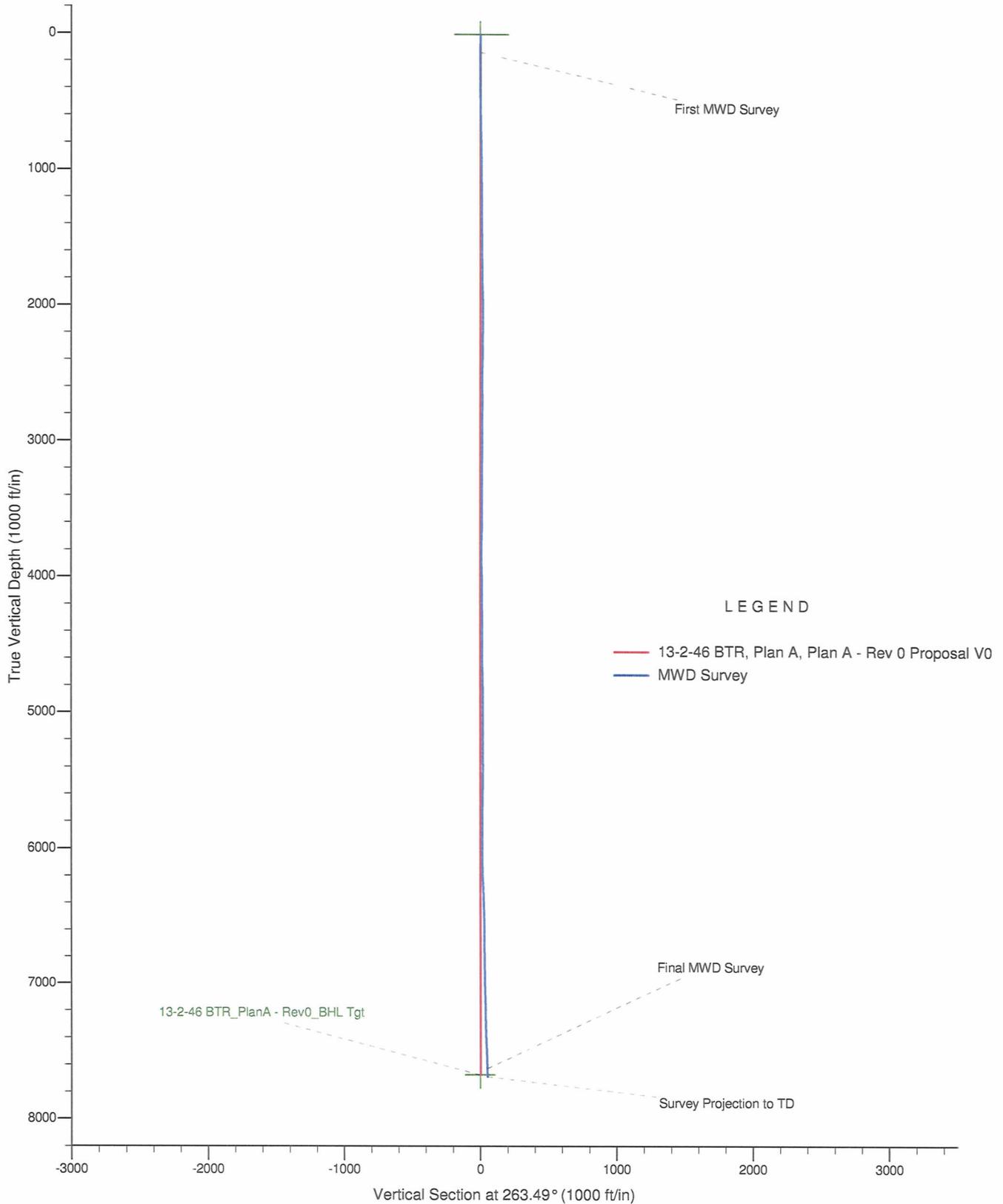
- 13-2-46 BTR, Plan A, Plan A - Rev 0 Proposal V0
- MWD Survey



Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 2-T4S-R6W  
Well: 13-2-46 BTR

# Bill Barrett Corp

**HALLIBURTON**  
Sperry Drilling



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626481	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> 13-2-46 BTR	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013340900000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0736 FSL 1044 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSW Section: 02 Township: 04.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
		<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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 1/8/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="Lease"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
BBC has earned the tribal lease for this well. The new lease number is 1420H626481.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 09, 2013</b>			
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 1/9/2013	

Division of Oil, Gas and Mining  
 Operator Change/Name Change Worksheet-for State use only

Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

- Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
- Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
- New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

- Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
- Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
- Reports current for Production/Disposition & Sundries: 11/2/2016
- OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
- UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
- Surface Facility(s) included in operator change: None
- Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: UTB000712
- Indian well(s) covered by Bond Number: LPM 922467
- State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

- Well(s) update in the **OGIS** on: 11/7/2016
- Entity Number(s) updated in **OGIS** on: 11/7/2016
- Unit(s) operator number update in **OGIS** on: N/A
- Surface Facilities update in **OGIS** on: N/A
- State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
- Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**

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From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD

From: Bill Barrett Corporation

To: Rig II, LLC

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14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD

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To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD

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To: Rig II, LLC

Effective 11/1/2016

LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD

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To: Rig II, LLC

Effective 11/1/2016

LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone:(801) 683-4245  
Fax:(801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

A handwritten signature in cursive script that reads 'Brady Riley'.

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
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.

<b>1. TYPE OF WELL</b> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> (see attached well list)
<b>2. NAME OF OPERATOR:</b> RIG II, LLC <u>N14055</u>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> N/A
<b>3. ADDRESS OF OPERATOR:</b> 1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087		<b>7. UNIT or CA AGREEMENT NAME:</b>
PHONE NUMBER: (801) 683-4245		<b>8. WELL NAME and NUMBER:</b> (see attached well list)
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: (see attached well list) COUNTY:		<b>9. API NUMBER:</b>
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		<b>10. FIELD AND POOL, OR WILDCAT:</b>

**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> (Submit In Duplicate) Approximate date work will start: <u>11/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
801-683-4245  
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N21165  
Duana Zavala NAME (PLEASE PRINT)  
Duana Zavala SIGNATURE  
Senior Vice President -  
EH&S, Government and Regulatory Affairs

RIG II, LLC  
Jesse McSwain NAME (PLEASE PRINT)  
Jesse McSwain SIGNATURE  
Manager

NAME (PLEASE PRINT) Jesse McSwain TITLE Manager  
SIGNATURE Jesse McSwain DATE 10/20/16

(This space for State use only)

**APPROVED**

NOV 07 2016

DIV. OIL GAS & MINING  
BY: Rachael Medina

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

**Request to Transfer Application or Permit to Drill**

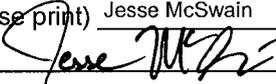
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
<input type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, 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.	Yes	No
If located on private land, has the ownership changed?	✓	
If so, has the surface agreement been updated?		✓
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
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?		✓
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-UDOGM / UTB000712-BLM / LPM9224670-BIA</small>	✓	

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain                      Title Manager  
 Signature                       Date 10/20/16  
 Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

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

UIC FORM 5

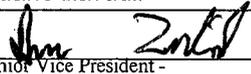
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

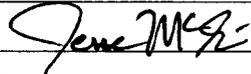
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:

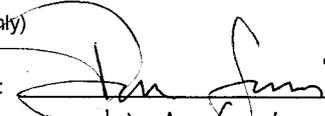
Name: Duane Zavadil  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

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

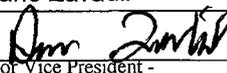
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

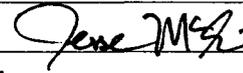
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadil</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

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

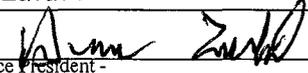
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

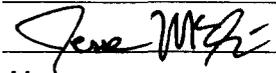
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE	Field or Unit Name CEDAR RIM
QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadil</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: 
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: 
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

This well was approved by USEPA.  
EPA approval will be required.