

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> 10-18D-36 BTR
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> CEDAR RIM
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP		<b>7. OPERATOR PHONE</b> 303 312-8164
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202		<b>9. OPERATOR E-MAIL</b> BHilgers@billbarrettcorp.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005608	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Terry Douglas and Lanette Rae Carlsen; Trustees		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 435-822-2025
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 1042 , Duchesne, UT 84021		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>	<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	2164 FSL 2286 FEL	NWSE	18	3.0 S	6.0 W	U
Top of Uppermost Producing Zone	1691 FSL 1771 FEL	NWSE	18	3.0 S	6.0 W	U
At Total Depth	1689 FSL 1769 FEL	NWSE	18	3.0 S	6.0 W	U

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1689	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640
	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 1347	<b>26. PROPOSED DEPTH</b> MD: 10817 TVD: 10714
<b>27. ELEVATION - GROUND LEVEL</b> 6199	<b>28. BOND NUMBER</b> LPM8874725	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City Culinary Water Dock

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
Surf	14.75	10.75	0 - 3200	45.5	J-55 ST&C	8.8	Halliburton Light , Type Unknown	850	3.16	11.0
							Halliburton Premium , Type Unknown	360	1.36	14.8
Prod	9.875	5.5	0 - 10817	17.0	P-110 LT&C	9.7	Unknown	1060	2.31	11.0
							Unknown	1430	1.42	13.5

**ATTACHMENTS**

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Venessa Langmacher	<b>TITLE</b> Senior Permit Analyst	<b>PHONE</b> 303 312-8172
<b>SIGNATURE</b>	<b>DATE</b> 08/04/2011	<b>EMAIL</b> vlangmacher@billbarrettcorp.com
<b>API NUMBER ASSIGNED</b> 43013509150000	<b>APPROVAL</b>   Permit Manager	

**DRILLING PLAN**

BILL BARRETT CORPORATION

**10-18D-36 BTR Well Pad**

NW SE, 2164' FSL and 2286' FEL, Section 18, T3S-R6W, USB&amp;M (surface hole)

NW SE, 1689' FSL and 1769' FEL, Section 18, T3S-R6W, USB&amp;M (bottom hole)

Duchesne County, UT

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

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Lower Green River*	6,218'	6,134'
Douglas Creek	7,067'	6,964'
Black Shale	7,647'	7,544'
Uteland Butte	8,232'	8,129'
Wasatch*	8,717'	8,614'
TD	10,817'	10,714'

\*PROSPECTIVE PAY

Members of the Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 5,100'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 3,200'	No pressure control required
3,200' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 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.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
14 3/4"	Surface	3,200'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

**NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&C to a depth of 6000', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2000' liner (200' liner lap).**

Bill Barrett Corporation  
 Drilling Program  
 #10-18D-36 BTR  
 Duchesne County, Utah

5. **Cementing Program**

<b><u>Casing</u></b>	<b><u>Cement</u></b>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	<p><i>Lead</i> with approximately 850 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft<sup>3</sup>/sx) circulated to surface with 75% excess. Planned top of lead cement at surface.</p> <p><i>Tail</i> with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft<sup>3</sup>/sx). Calculated hole volume with 75% excess. Planned top of tail cement at 2,700'.</p>
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	<p><i>Lead</i> with approximately 1060 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx). Planned top of lead cement at 2,700'</p> <p><i>Tail</i> with approximately 1430 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned top of tail cement at 7,147'.</p>
<p><b>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</b></p> <p><b>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</b></p>	

6. **Mud Program**

<b><u>Interval</u></b>	<b><u>Weight</u></b>	<b><u>Viscosity</u></b>	<b><u>Fluid Loss (API filtrate)</u></b>	<b><u>Remarks</u></b>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 3,200'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3,200' – TD	8.6 – 9.7	42 – 52	20 cc or less	DAP Polymer Fluid System
<p>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.</p>				

Bill Barrett Corporation  
 Drilling Program  
 #10-18D-36 BTR  
 Duchesne County, Utah

**7. 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.
<b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b>	

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5404 psi\* and maximum anticipated surface pressure equals approximately 3047 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)

**9. 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

**10. 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.

**11. Drilling Schedule**

Location Construction: January 2012  
 Spud: January 2012  
 Duration: 15 days drilling time  
 45 days completion time

**PRESSURE CONTROL EQUIPMENT** – Schematic Attached

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be

maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.

Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/18/2011

Well Name: 10-18D-36 BTR

### Surface Hole Data:

Total Depth:	3,200'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

### Calculated Data:

Lead Volume:	2628.6	ft <sup>3</sup>
Lead Fill:	2,700'	
Tail Volume:	486.8	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	850
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	2,700'	

# SK's Tail:	360
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### Production Hole Data:

Total Depth:	10,817'
Top of Cement:	2,700'
Top of Tail:	7,147'
OD of Hole:	9.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	2447.2	ft <sup>3</sup>
Lead Fill:	4,447'	
Tail Volume:	2019.8	ft <sup>3</sup>
Tail Fill:	3,670'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	1060
# SK's Tail:	1430

<b>10-18D-36 BTR Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (2700' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,700'
	Volume: 468.14 bbl
	<b>Proposed Sacks: 850 sks</b>
<b>Tail Cement - (TD - 2700')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,700'
	Calculated Fill: 500'
	Volume: 86.69 bbl
	<b>Proposed Sacks: 360 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (7147' - 2700')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,700'
	Calculated Fill: 4,447'
	Volume: 435.84 bbl
	<b>Proposed Sacks: 1060 sks</b>
<b>Tail Cement - (10817' - 7147')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 7,147'
	Calculated Fill: 3,670'
	Volume: 359.72 bbl
	<b>Proposed Sacks: 1430 sks</b>

**BILL BARRETT CORPORATION**

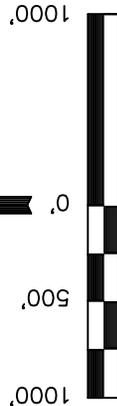
Well location, #10-18D-36 BTR, located as shown in the NW 1/4 SE 1/4 of Section 18, T3S, R6W, U.S.B.&M., Duchesne County, Utah.

**BASIS OF ELEVATION**

SPOT ELEVATION AT A ROAD INTERSECTION LOCATED IN THE NW 1/4 OF SECTION 36, T3S, R6W, U.S.B.&M., TAKEN FROM THE RABBIT GULCH 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 AS BEING 5904 FEET.

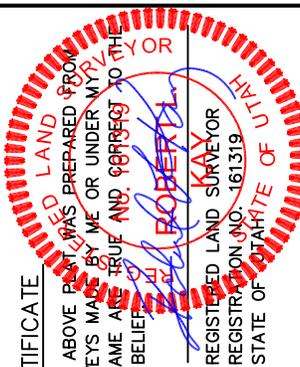
**BASIS OF BEARINGS**

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



S C A L E  
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE POINT 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.



REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

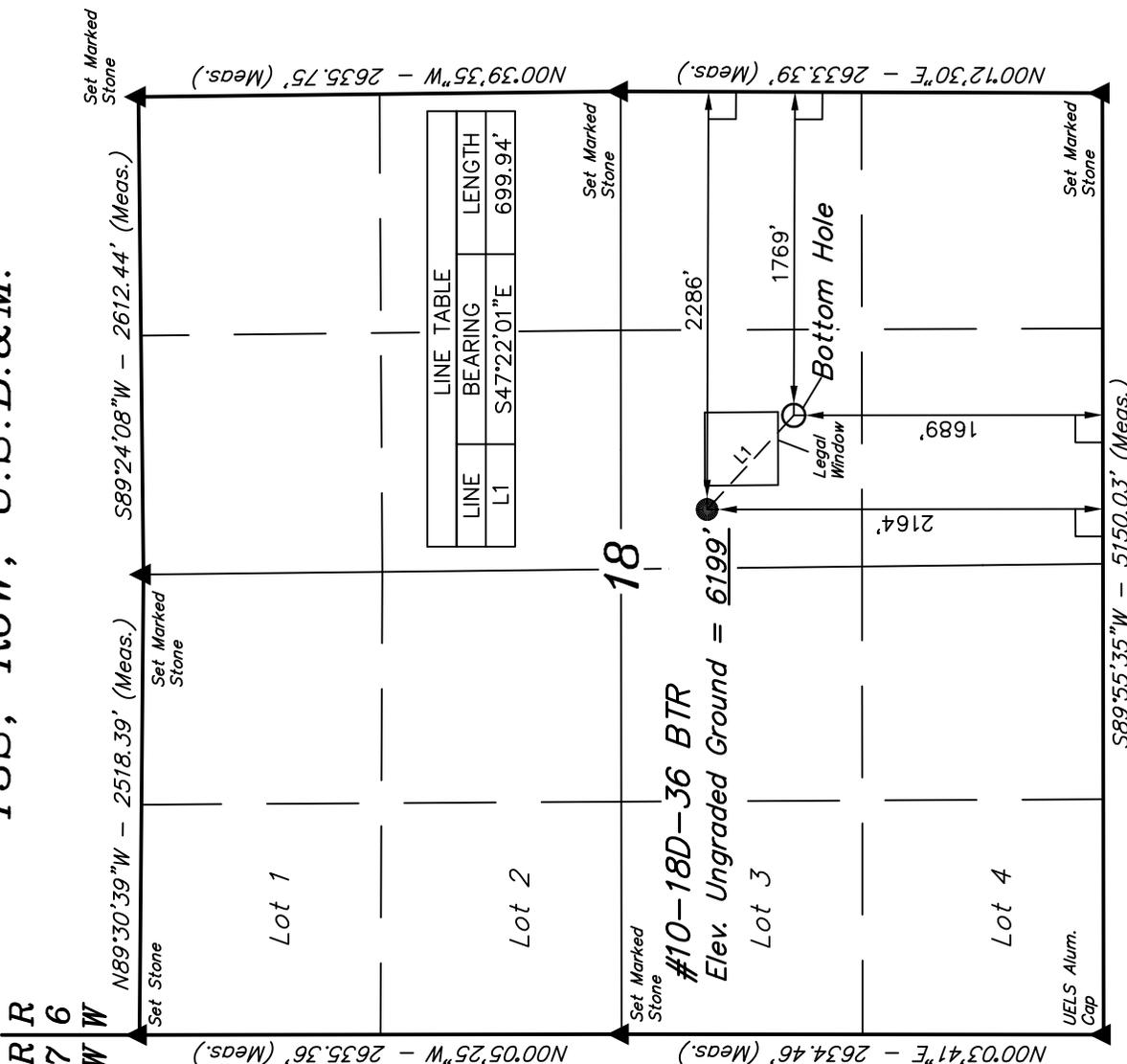
**UINTAH ENGINEERING & LAND SURVEYING**

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	10-22-10	DATE DRAWN:	02-23-11
PARTY	T.A. C.N. K.O.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	BILL BARRETT CORPORATION		

**T3S, R6W, U.S.B.&M.**

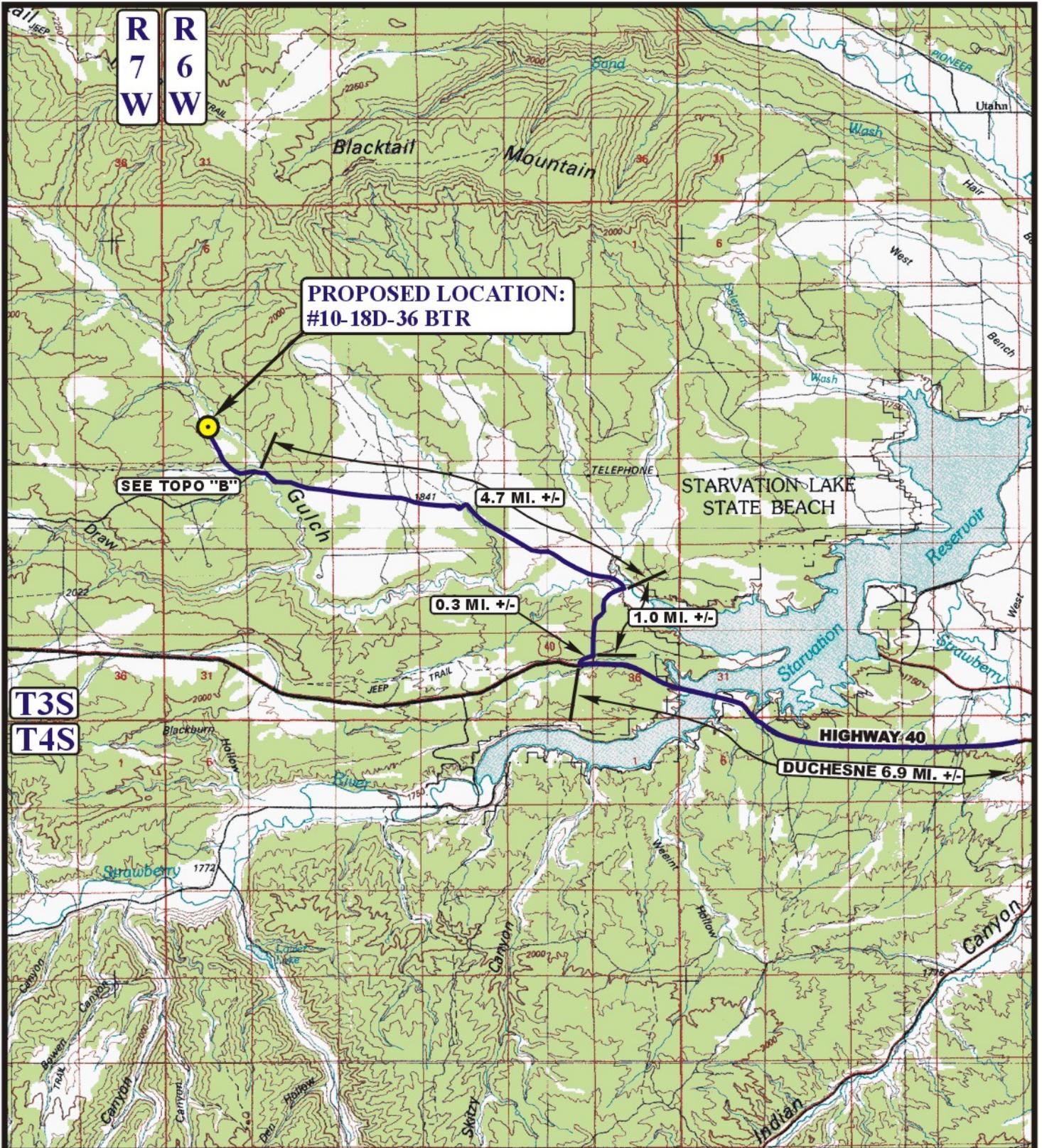


LINE TABLE		
LINE	BEARING	LENGTH
L1	S47°22'01"E	699.94'

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°13'01.39"	(40.217053)	LATITUDE = 40°13'06.07"	(40.218353)
LONGITUDE = 110°36'10.44"	(110.602900)	LONGITUDE = 110°36'17.09"	(110.604747)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°13'01.55"	(40.217097)	LATITUDE = 40°13'06.23"	(40.218397)
LONGITUDE = 110°36'07.88"	(110.602189)	LONGITUDE = 110°36'14.52"	(110.604035)

**LEGEND:**

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



**LEGEND:**

 PROPOSED LOCATION



**BILL BARRETT CORPORATION**

**#10-18D-36 BTR**  
**SECTION 18, T3S, R6W, U.S.B.&M.**  
**2164' FSL 2286' FEL**



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

**ACCESS ROAD**  
**MAP**

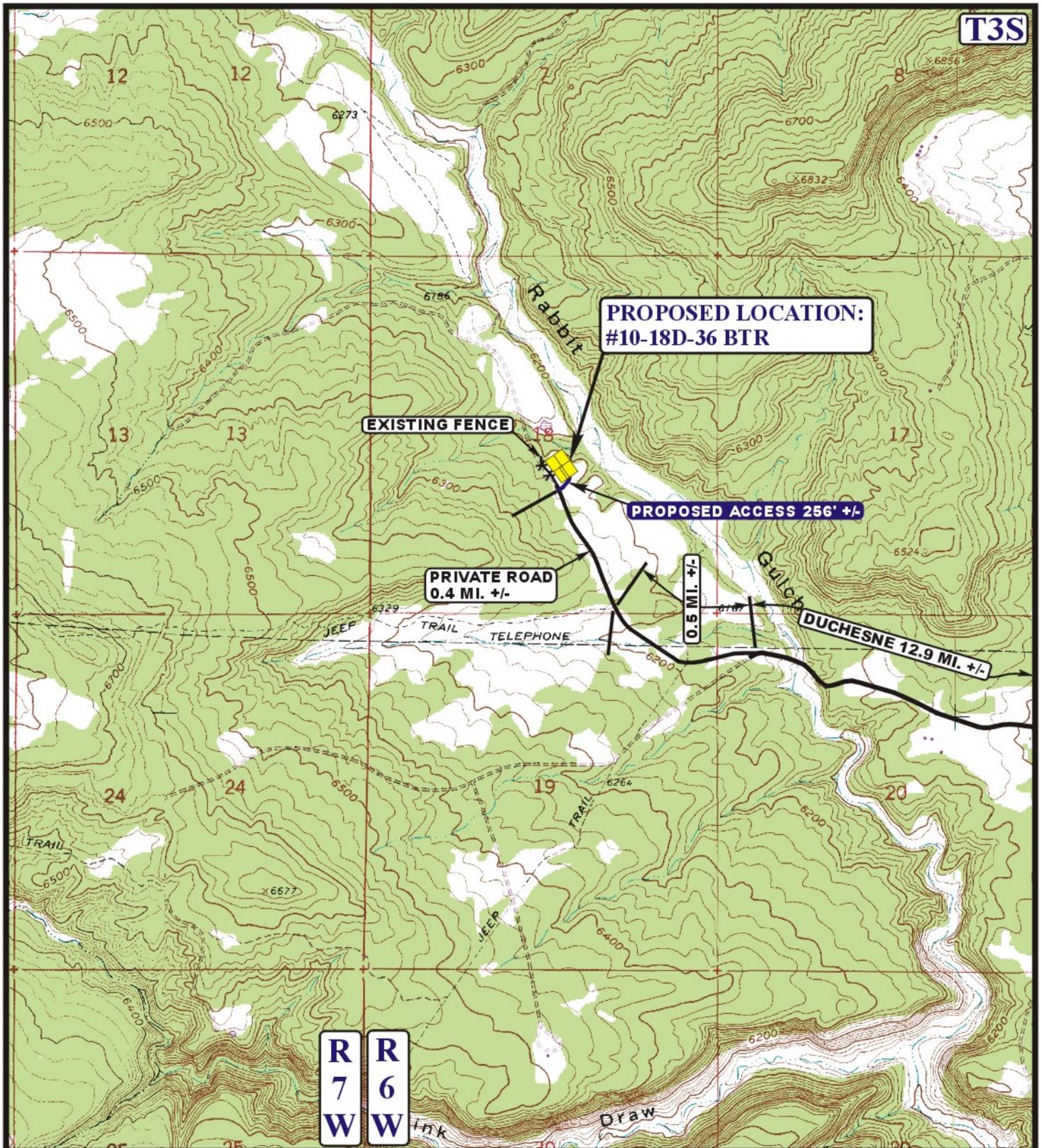
**02 25 11**  
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: S.F.

REVISED: 00-00-00





**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  EXISTING FENCE

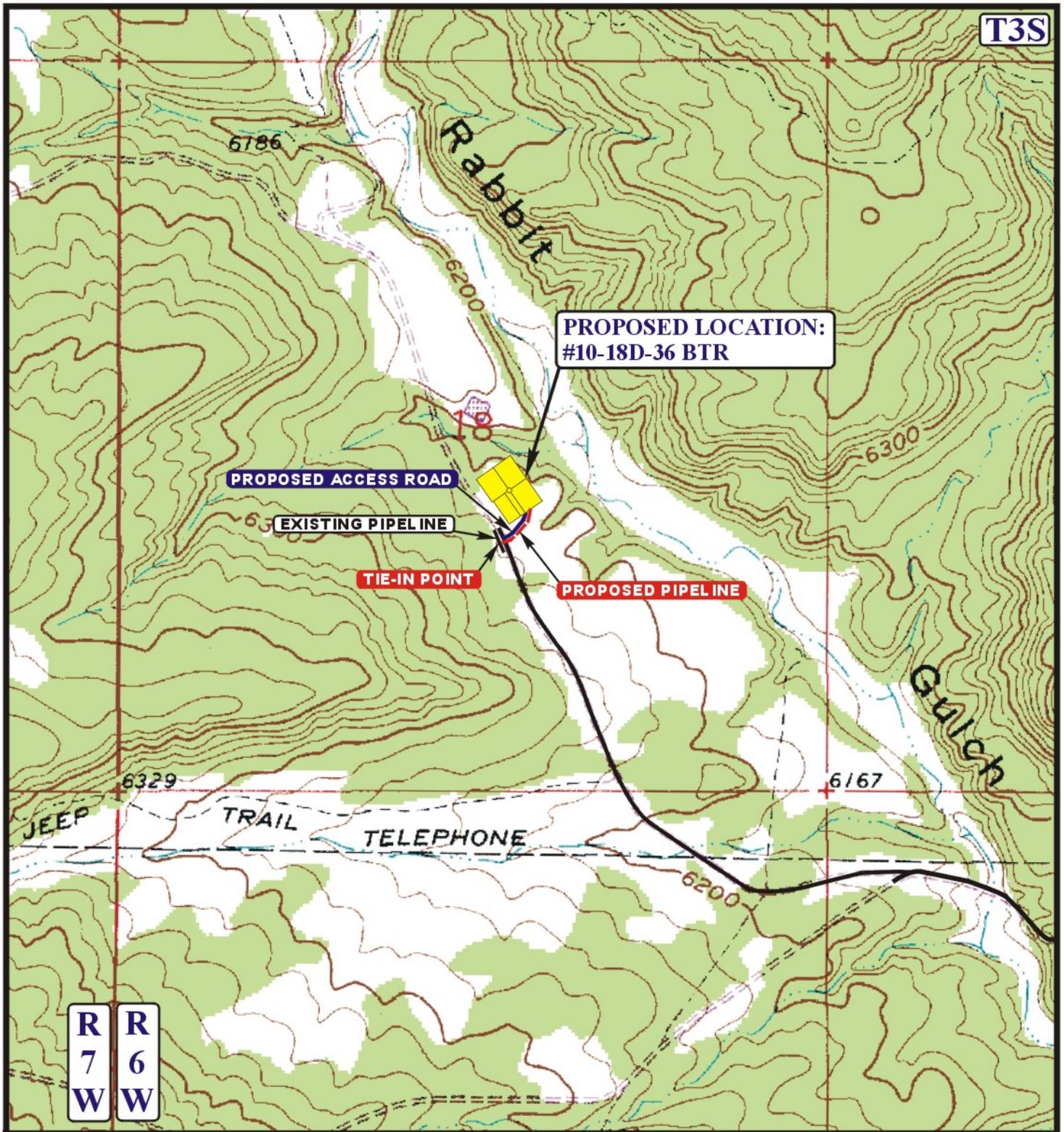
**BILL BARRETT CORPORATION**

**#10-18D-36 BTR**  
**SECTION 18, T3S, R6W, U.S.B.&M.**  
**2164' FSL 2286' FEL**

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



<b>ACCESS ROAD</b>	<b>02</b>	<b>25</b>	<b>11</b>	<b>B</b>
<b>MAP</b>	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: S.F.		REVISED: 00-00-00	<b>TOPO</b>



**APPROXIMATE TOTAL PIPELINE DISTANCE = 348' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- - - - - PROPOSED PIPELINE

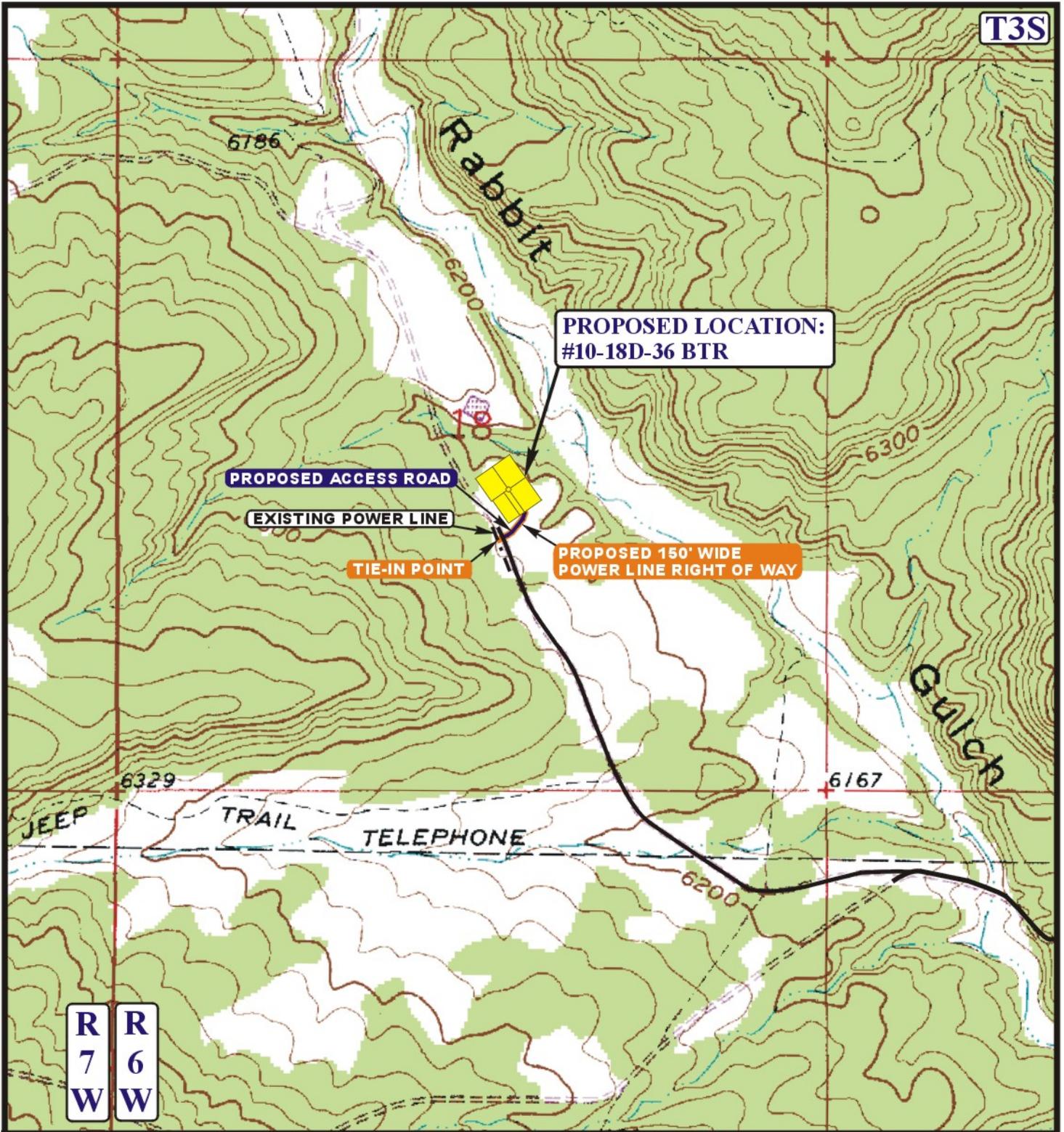
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**2164' FSL 2286' FEL**

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



**TOPOGRAPHIC MAP** **02 25 11**  
MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: S.F. REVISED: 00-00-00 **C TOPO**



APPROXIMATE TOTAL POWER LINE DISTANCE = 173' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING POWER LINE
-  PROPOSED POWER LINE

BILL BARRETT CORPORATION

#10-18D-36 BTR  
 SECTION 18, T3S, R6W, U.S.B.&M.  
 2164' FSL 2286' FEL



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



TOPOGRAPHIC  
 MAP

03 11 11  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.A.G. REVISED: 00-00-00

D  
 TOPO



COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature  
Error System: ISCWSA  
Scan Method: Closest Approach 3D  
Error Surface: Elliptical Conic  
Warning Method: Error Ratio

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
10-18D-36 BTR 3PT MKR	7359.0	-473.5	515.0	40° 13' 1.549 N	110° 36' 7.880 W	Rectangle (Sides: L200.0 W200.0)
10-18D-36 BTR PBHL	10714.0	-473.5	515.0	40° 13' 1.549 N	110° 36' 7.880 W	Rectangle (Sides: L200.0 W200.0)

SECTION DETAILS

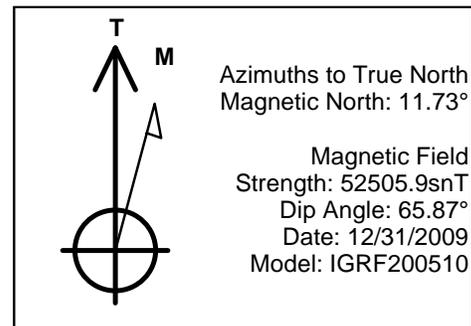
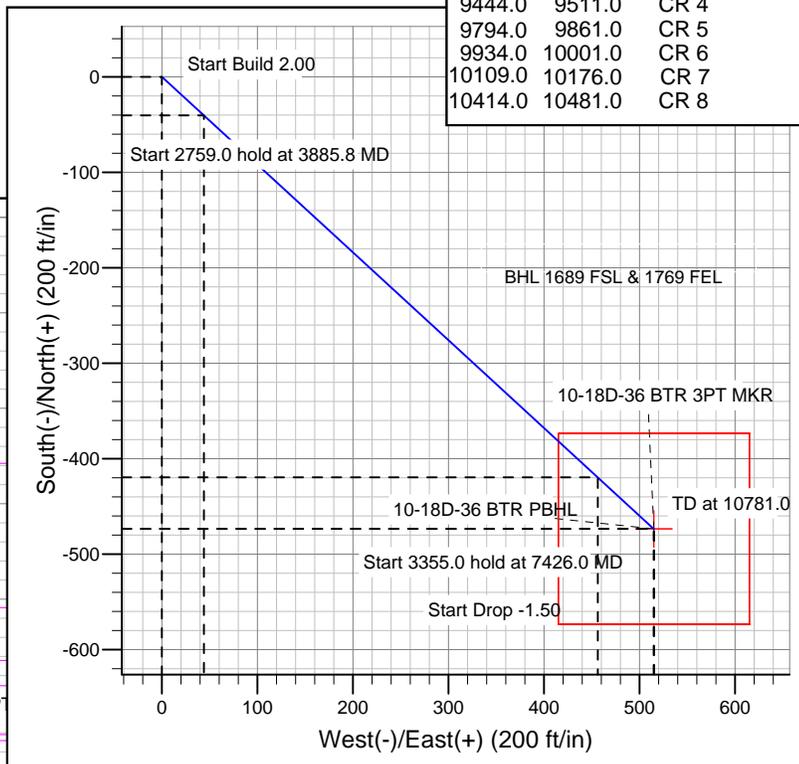
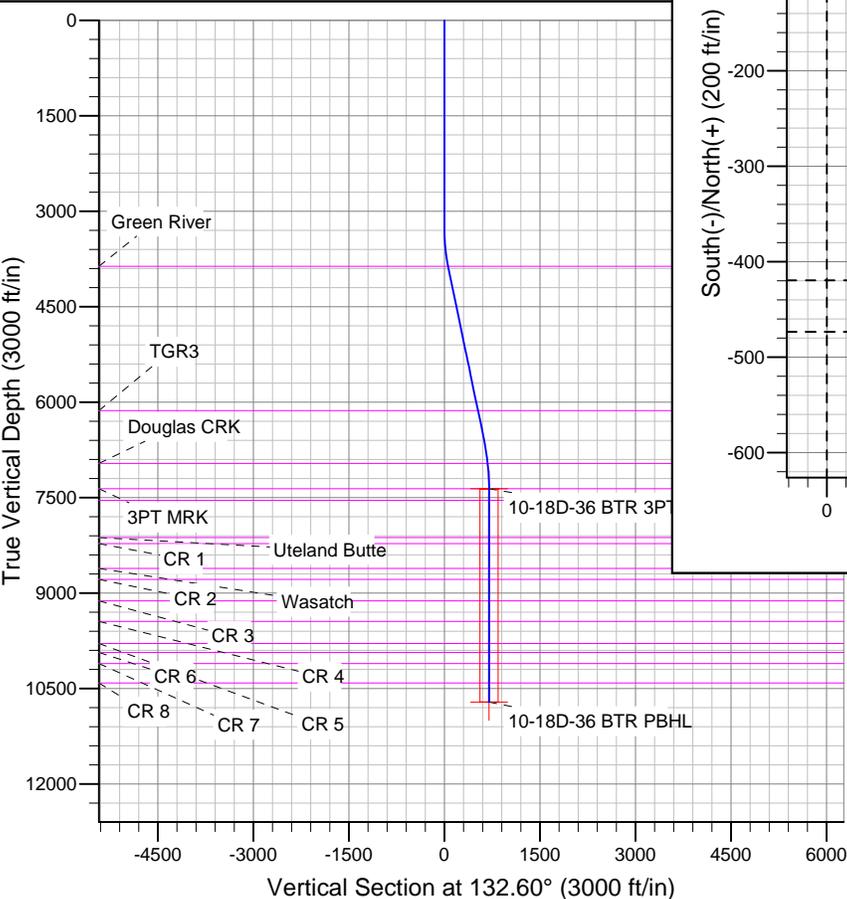
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3300.0	0.00	0.00	3300.0	0.0	0.0	0.00	0.00	0.0	
3	3885.8	11.72	132.60	3881.8	-40.4	43.9	2.00	132.60	59.7	
4	6644.9	11.72	132.60	6583.3	-419.7	456.4	0.00	0.00	620.0	
5	7426.0	0.00	0.00	7359.0	-473.5	515.0	1.50	180.00	699.6	10-18D-36 BTR 3PT MKR
6	10781.0	0.00	0.00	10714.0	-473.5	515.0	0.00	0.00	699.6	10-18D-36 BTR PBHL

FORMATION TOP DETAILS

TVDPATH	MDPATH	FORMATION
3864.0	3867.7	Green River
6134.0	6186.0	TGR3
6964.0	7030.3	Douglas CRK
7359.0	7426.0	3PT MRK
7544.0	7611.0	Black Shale Facies
8129.0	8196.0	Uteland Butte
8224.0	8291.0	CR 1
8614.0	8681.0	Wasatch
8784.0	8851.0	CR 2
9124.0	9191.0	CR 3
9444.0	9511.0	CR 4
9794.0	9861.0	CR 5
9934.0	10001.0	CR 6
10109.0	10176.0	CR 7
10414.0	10481.0	CR 8

CASING DETAILS

No casing data is available



# **BILL BARRETT CORP**

**DUCHESNE COUNTY, UT (NAD 27)**

**10-18D-36 BTR**

**10-18D-36 BTR**

**Plan #1**

**Plan: Design #1 2Aug2011**

## **Standard Planning Report**

**04 August, 2011**

**Bill Barrett Corp**  
Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 10-18D-36 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Site:</b>	10-18D-36 BTR	<b>North Reference:</b>	True
<b>Well:</b>	10-18D-36 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan #1		
<b>Design:</b>	Design #1 2Aug2011		

<b>Project</b>	DUCHESNE COUNTY, UT (NAD 27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Ground Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

<b>Site</b>	10-18D-36 BTR, SECTION 18-T3S-R6W				
<b>Site Position:</b>		<b>Northing:</b>	687,850.412 ft	<b>Latitude:</b>	40° 13' 6.229 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,250,197.984 ft	<b>Longitude:</b>	110° 36' 14.5188 W
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.57 °

<b>Well</b>	10-18D-36 BTR,					
<b>Well Position</b>	<b>+N/-S</b>	-0.01 ft	<b>Northing:</b>	687,850.399 ft	<b>Latitude:</b>	40° 13' 6.229 N
	<b>+E/-W</b>	0.00 ft	<b>Easting:</b>	2,250,197.984 ft	<b>Longitude:</b>	110° 36' 14.5188 W
<b>Position Uncertainty</b>		0.00 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,199.00 ft

<b>Wellbore</b>	Plan #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF200510	12/31/2009	11.73	65.87	52,506

<b>Design</b>	Design #1 2Aug2011			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	6,215.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.00	0.00	0.00	132.60

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,885.84	11.72	132.60	3,881.77	-40.41	43.94	2.00	2.00	0.00	132.60	
6,644.87	11.72	132.60	6,583.31	-419.66	456.37	0.00	0.00	0.00	0.00	
7,426.00	0.00	0.00	7,359.00	-473.53	514.95	1.50	-1.50	0.00	180.00	10-18D-36 BTR 3PT I
10,781.00	0.00	0.00	10,714.00	-473.53	514.95	0.00	0.00	0.00	0.00	10-18D-36 BTR PBHL

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<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Site:</b>	10-18D-36 BTR	<b>North Reference:</b>	True
<b>Well:</b>	10-18D-36 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan #1		
<b>Design:</b>	Design #1 2Aug2011		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,400.00	2.00	132.60	3,399.98	-1.19	1.28	1.75	2.00	2.00	0.00	
3,500.00	4.00	132.60	3,499.84	-4.73	5.14	6.98	2.00	2.00	0.00	
3,600.00	6.00	132.60	3,599.45	-10.63	11.55	15.69	2.00	2.00	0.00	
3,700.00	8.00	132.60	3,698.70	-18.88	20.52	27.88	2.00	2.00	0.00	
3,800.00	10.00	132.60	3,797.47	-29.46	32.04	43.52	2.00	2.00	0.00	
3,867.71	11.35	132.60	3,864.00	-37.95	41.27	56.07	2.00	2.00	0.00	
<b>Green River</b>										
3,885.84	11.72	132.60	3,881.77	-40.41	43.94	59.69	2.00	2.00	0.00	
3,900.00	11.72	132.60	3,895.63	-42.36	46.06	62.57	0.00	0.00	0.00	
4,000.00	11.72	132.60	3,993.55	-56.10	61.00	82.88	0.00	0.00	0.00	
4,100.00	11.72	132.60	4,091.46	-69.85	75.95	103.18	0.00	0.00	0.00	
4,200.00	11.72	132.60	4,189.38	-83.59	90.90	123.49	0.00	0.00	0.00	
4,300.00	11.72	132.60	4,287.30	-97.34	105.85	143.80	0.00	0.00	0.00	
4,400.00	11.72	132.60	4,385.21	-111.08	120.80	164.11	0.00	0.00	0.00	
4,500.00	11.72	132.60	4,483.13	-124.83	135.75	184.41	0.00	0.00	0.00	
4,600.00	11.72	132.60	4,581.04	-138.58	150.69	204.72	0.00	0.00	0.00	
4,700.00	11.72	132.60	4,678.96	-152.32	165.64	225.03	0.00	0.00	0.00	
4,800.00	11.72	132.60	4,776.88	-166.07	180.59	245.34	0.00	0.00	0.00	
4,900.00	11.72	132.60	4,874.79	-179.81	195.54	265.64	0.00	0.00	0.00	
5,000.00	11.72	132.60	4,972.71	-193.56	210.49	285.95	0.00	0.00	0.00	

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<b>Site:</b>	10-18D-36 BTR	<b>North Reference:</b>	True
<b>Well:</b>	10-18D-36 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan #1		
<b>Design:</b>	Design #1 2Aug2011		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,100.00	11.72	132.60	5,070.63	-207.30	225.44	306.26	0.00	0.00	0.00
5,200.00	11.72	132.60	5,168.54	-221.05	240.38	326.57	0.00	0.00	0.00
5,300.00	11.72	132.60	5,266.46	-234.80	255.33	346.87	0.00	0.00	0.00
5,400.00	11.72	132.60	5,364.37	-248.54	270.28	367.18	0.00	0.00	0.00
5,500.00	11.72	132.60	5,462.29	-262.29	285.23	387.49	0.00	0.00	0.00
5,600.00	11.72	132.60	5,560.21	-276.03	300.18	407.80	0.00	0.00	0.00
5,700.00	11.72	132.60	5,658.12	-289.78	315.13	428.10	0.00	0.00	0.00
5,800.00	11.72	132.60	5,756.04	-303.52	330.07	448.41	0.00	0.00	0.00
5,900.00	11.72	132.60	5,853.96	-317.27	345.02	468.72	0.00	0.00	0.00
6,000.00	11.72	132.60	5,951.87	-331.02	359.97	489.03	0.00	0.00	0.00
6,100.00	11.72	132.60	6,049.79	-344.76	374.92	509.33	0.00	0.00	0.00
6,186.00	11.72	132.60	6,134.00	-356.58	387.77	526.80	0.00	0.00	0.00
<b>TGR3</b>									
6,200.00	11.72	132.60	6,147.71	-358.51	389.87	529.64	0.00	0.00	0.00
6,300.00	11.72	132.60	6,245.62	-372.25	404.82	549.95	0.00	0.00	0.00
6,400.00	11.72	132.60	6,343.54	-386.00	419.76	570.26	0.00	0.00	0.00
6,500.00	11.72	132.60	6,441.45	-399.74	434.71	590.56	0.00	0.00	0.00
6,600.00	11.72	132.60	6,539.37	-413.49	449.66	610.87	0.00	0.00	0.00
6,644.87	11.72	132.60	6,583.31	-419.66	456.37	619.98	0.00	0.00	0.00
6,700.00	10.89	132.60	6,637.37	-426.97	464.32	630.79	1.50	-1.50	0.00
6,800.00	9.39	132.60	6,735.80	-438.89	477.28	648.39	1.50	-1.50	0.00
6,900.00	7.89	132.60	6,834.66	-449.06	488.34	663.42	1.50	-1.50	0.00
7,000.00	6.39	132.60	6,933.89	-457.47	497.49	675.85	1.50	-1.50	0.00
7,030.29	5.94	132.60	6,964.00	-459.67	499.88	679.10	1.50	-1.50	0.00
<b>Douglas CRK</b>									
7,100.00	4.89	132.60	7,033.40	-464.12	504.72	685.67	1.50	-1.50	0.00
7,200.00	3.39	132.60	7,133.13	-469.01	510.03	692.89	1.50	-1.50	0.00
7,300.00	1.89	132.60	7,233.03	-472.12	513.43	697.50	1.50	-1.50	0.00
7,400.00	0.39	132.60	7,333.00	-473.47	514.89	699.49	1.50	-1.50	0.00
7,426.00	0.00	0.00	7,359.00	-473.53	514.95	699.58	1.50	-1.50	0.00
<b>3PT MRK - 10-18D-36 BTR 3PT MKR</b>									
7,500.00	0.00	0.00	7,433.00	-473.53	514.95	699.58	0.00	0.00	0.00
7,600.00	0.00	0.00	7,533.00	-473.53	514.95	699.58	0.00	0.00	0.00
7,611.00	0.00	0.00	7,544.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>Black Shale Facies</b>									
7,700.00	0.00	0.00	7,633.00	-473.53	514.95	699.58	0.00	0.00	0.00
7,800.00	0.00	0.00	7,733.00	-473.53	514.95	699.58	0.00	0.00	0.00
7,900.00	0.00	0.00	7,833.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,000.00	0.00	0.00	7,933.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,100.00	0.00	0.00	8,033.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,196.00	0.00	0.00	8,129.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>Uteland Butte</b>									
8,200.00	0.00	0.00	8,133.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,291.00	0.00	0.00	8,224.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 1</b>									
8,300.00	0.00	0.00	8,233.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,400.00	0.00	0.00	8,333.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,500.00	0.00	0.00	8,433.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,600.00	0.00	0.00	8,533.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,681.00	0.00	0.00	8,614.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>Wasatch</b>									
8,700.00	0.00	0.00	8,633.00	-473.53	514.95	699.58	0.00	0.00	0.00
8,800.00	0.00	0.00	8,733.00	-473.53	514.95	699.58	0.00	0.00	0.00

**Bill Barrett Corp**  
Planning Report

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<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Site:</b>	10-18D-36 BTR	<b>North Reference:</b>	True
<b>Well:</b>	10-18D-36 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan #1		
<b>Design:</b>	Design #1 2Aug2011		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,851.00	0.00	0.00	8,784.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 2</b>									
8,900.00	0.00	0.00	8,833.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,000.00	0.00	0.00	8,933.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,100.00	0.00	0.00	9,033.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,191.00	0.00	0.00	9,124.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 3</b>									
9,200.00	0.00	0.00	9,133.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,300.00	0.00	0.00	9,233.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,400.00	0.00	0.00	9,333.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,500.00	0.00	0.00	9,433.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,511.00	0.00	0.00	9,444.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 4</b>									
9,600.00	0.00	0.00	9,533.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,700.00	0.00	0.00	9,633.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,800.00	0.00	0.00	9,733.00	-473.53	514.95	699.58	0.00	0.00	0.00
9,861.00	0.00	0.00	9,794.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 5</b>									
9,900.00	0.00	0.00	9,833.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,000.00	0.00	0.00	9,933.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,001.00	0.00	0.00	9,934.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 6</b>									
10,100.00	0.00	0.00	10,033.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,176.00	0.00	0.00	10,109.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 7</b>									
10,200.00	0.00	0.00	10,133.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,300.00	0.00	0.00	10,233.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,400.00	0.00	0.00	10,333.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,481.00	0.00	0.00	10,414.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>CR 8</b>									
10,500.00	0.00	0.00	10,433.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,600.00	0.00	0.00	10,533.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,700.00	0.00	0.00	10,633.00	-473.53	514.95	699.58	0.00	0.00	0.00
10,781.00	0.00	0.00	10,714.00	-473.53	514.95	699.58	0.00	0.00	0.00
<b>10-18D-36 BTR PBHL</b>									

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 10-18D-36 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6215.00ft (Original Well Elev)
<b>Site:</b>	10-18D-36 BTR	<b>North Reference:</b>	True
<b>Well:</b>	10-18D-36 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Plan #1		
<b>Design:</b>	Design #1 2Aug2011		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
3,867.71	3,864.00	Green River		0.00		
6,186.00	6,134.00	TGR3		0.00		
7,030.29	6,964.00	Douglas CRK		0.00		
7,426.00	7,359.00	3PT MRK		0.00		
7,611.00	7,544.00	Black Shale Facies		0.00		
8,196.00	8,129.00	Uteland Butte		0.00		
8,291.00	8,224.00	CR 1		0.00		
8,681.00	8,614.00	Wasatch		0.00		
8,851.00	8,784.00	CR 2		0.00		
9,191.00	9,124.00	CR 3		0.00		
9,511.00	9,444.00	CR 4		0.00		
9,861.00	9,794.00	CR 5		0.00		
10,001.00	9,934.00	CR 6		0.00		
10,176.00	10,109.00	CR 7		0.00		
10,481.00	10,414.00	CR 8		0.00		

**SURFACE DAMAGE AND RIGHT-OF-WAY SETTLEMENT AGREEMENT**

This Agreement, made and entered into this the 25th day of March, 2011, by and between Terry Douglas Carlsen and Lanette Rae Carlsen, as Trustees of The Carlsen Family Trust dated 2-20-02, as amended on 9-29-09, PO Box 1042, Duchesne, UT 84021 ("Surface Owner") and Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver CO 80202, ("BBC").

WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting All of Section 18, Township 3 South, Range 6 West, USM, of Duchesne County, Utah; and,

WHEREAS, such leases grant to BBC the right and privilege of ingress, egress, exploring, drilling, mining, operating for, producing and owning oil and gas and all other products produced therewith, together with the right to make surveys on said lands, lay pipelines, construct roads and bridges, dig canals, build power stations, telephone lines, employee houses and other structures on said lands, necessary or useful in BBC's operations; and,

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the #10-18D-36 BTR well at a legal drill-site location in the NW1/4SE1/4 of Section 18 Township 3 South, Range 6 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the NW1/4SE1/4 of Section 18, Township 3 South, Range 6 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

BBC shall maintain all roads used pursuant to this Agreement and shall install culverts where necessary to insure adequate drainage from all roads.

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement.

Surface Owner and their heirs or assigns shall have full access and use of the road built pursuant to this Agreement.

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.

This Agreement may be executed in any number of counterparts and all such counterparts shall be deemed to constitute a single Agreement and the execution of one counterpart by any party hereto shall have the same force and effect as if said party had signed all other counterparts.

IN WITNESS WHEREOF, the parties have executed this Surface Damage Settlement Agreement effective as of the 25th day of March, 2011.

SEE ATTACHED EXHIBIT "C" FOR ADDITIONAL TERMS AND CONDITIONS.

SURFACE OWNER : BILL BARRETT CORPORATION

By: Terry Douglas Carlsen  
Terry Douglas Carlsen, Trustee

By: Clint W. Turner  
As Agent for Bill Barrett Corporation

By: Lanette Rae Carlsen  
Lanette Rae Carlsen, Trustee

STATE OF UTAH )  
 )  
COUNTY OF Duchesne )



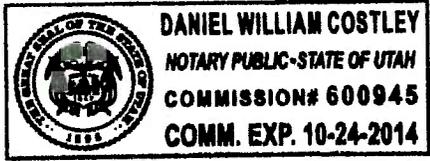
On the 19 day of May, 2011, personally appeared before me Terry Douglas Carlsen and Lanette Rae Carlsen, as Trustees of The Carlsen Family Trust dated 2-20-02, as amended 9-29-09 known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purpose and consideration therein expressed.

Terri Killian  
Notary Public  
Residing at: Duchesne, Utah

My Commission Expires: Oct 6, 2013

STATE OF UTAH )  
 )  
COUNTY OF SALT LAKE )

On the 16<sup>th</sup> day of June, 2011, personally appeared before me \_\_\_\_\_ Clint W. Turner, who, being by me duly sworn, did say that he is the \_\_\_\_\_ Agent of 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.



Daniel William Costley  
Notary Public  
Residing at:

My Commission Expires: 10 24 2014

**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**10-18D-36 BTR Well Pad**

NW SE, 2164' FSL and 2286' FEL, Section 18, T3S-R6W, USB&M (surface hole)

NW SE, 1689' FSL and 1769' FEL, Section 18, T3S-R6W, USB&M (bottom hole)

Duchesne County, UT

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The onsite inspection for this pad occurred on July 20, 2011. Site specific conditions or changes as a result of that onsite are indicated below. Plat changes requested at the onsite are reflected within this APD.

- Minimize visual resource issues from the landowners house;
- Pad and access road to be fenced and omit proposed cattle guard;
- Divert drainages around well pad as reflected on Figure 1;
- Utilize 20 mil liners over felt
- Trees removed during construction will be stockpiled near corner 8 or pushed in the wash so they are not seen by the landowner;
- Landowner requested pre and post-testing of existing water well (297' deep);
- Beetle Green paint color

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

1. Existing Roads:

- a. The proposed well site is located approximately 13.9 miles northwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing Duchesne County maintained Koch Road (CR 23) would be utilized for 6 miles to the existing BBC maintained 5-18-36 BTR well site access road that would be utilized for 0.9 miles that provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.

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Surface Use Plan  
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- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permits are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 256 feet of new access road is planned from the existing BBC maintained 5-18-36 BTR access road across entirely private surface (see Topographic Map B).
- b. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.

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- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.
- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.
- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
- l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
- m. The operator would be responsible for all maintenance needs of the new access road.

3. Location of Existing Wells (see One-Mile Radius Map):

- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
  - i. water wells none
  - ii. injection wells none
  - iii. disposal wells one
  - iv. drilling wells one
  - v. temp shut-in wells none
  - vi. producing wells three
  - vii. abandoned wells seven

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or gas lift unit with a natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or gas lift to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks or Roto-flex units would be small (75 horsepower or less),

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natural gas-fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 15 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by a generator.

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 348 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 12 inch in diameter, one water line up to 8 inch in diameter and one residue line up to 4 inch in diameter) is proposed. Pipelines would be constructed of steel, polyethylene or fiberglass. and would connect to the existing pipeline servicing nearby BBC and El Paso wells. The pipeline crosses entirely private surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation.

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Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

<b>Water Right No. and Application or Change No.</b>	<b>Applicant</b>	<b>Allocation</b>	<b>Date</b>	<b>Point of Diversion</b>	<b>Source</b>
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

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6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 20 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224),

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<b>Disposal Facilities</b>
UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA’s Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up every day.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110’ from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed.

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BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.

- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
- c. A surface powerline corridor 173 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 300 feet with an inboard reserve pit size of 100 feet x 200 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.

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- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency or the fee landowners.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable

Bill Barrett Corporation  
Surface Use Plan  
#10-18D-36 BTR  
Duchesne County, UT

stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.

- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

- a. Surface ownership – Well site, access and pipeline corridor segment: Terry Douglas Carlsen & Lanette Rae Carlsen; Trustees of The Carlsen Family Trust.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 10-277 dated June 16, 2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.

Bill Barrett Corporation  
Surface Use Plan  
#10-18D-36 BTR  
Duchesne County, UT

d. Disturbance estimates:

**Approximate Acreage Disturbances**

Well Pad		4.387	acres
Access	256 feet	0.095	acres
Pipeline	348 feet	0.196	acres
Powerline	173 feet	0.596	acres
	<b>Total</b>	<b>5.274</b>	<b>acres</b>

OPERATOR CERTIFICATION

Certification:

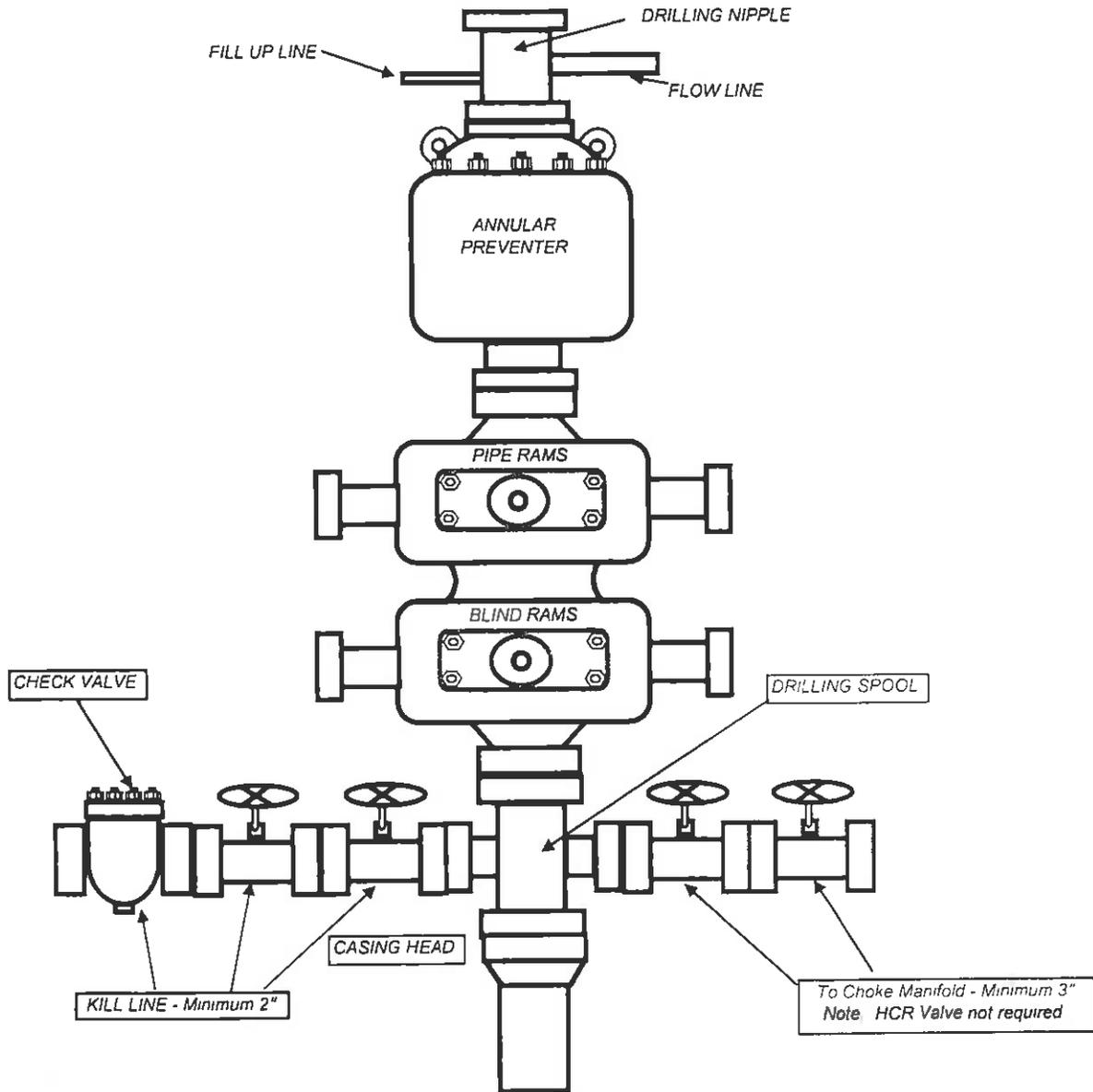
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

Executed this 4<sup>th</sup> day of August 2011  
Name: Venessa Langmacher  
Position Title: Senior Permit Analyst  
Address: 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202  
Telephone: 303-312-8172  
E-mail: vlangmacher@billbarrettcorp.com  
Field Representative Kary Eldredge / Bill Barrett Corporation  
Address: 1820 W. Highway 40, Roosevelt, UT 84066  
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)  
E-mail: keldredge@billbarrettcorp.com

Venessa Langmacher  
Venessa Langmacher, Senior Permit Analyst

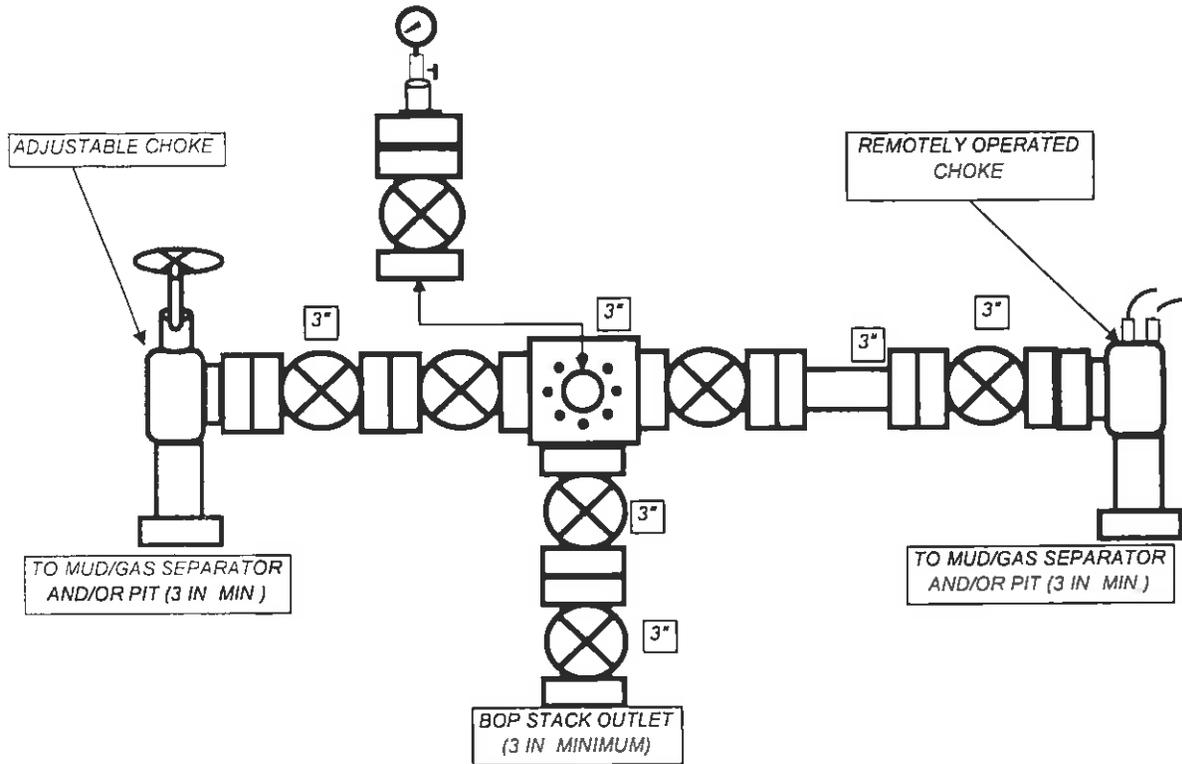
# BILL BARRETT CORPORATION

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



# BILL BARRETT CORPORATION

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





August 4, 2011

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
**Blacktail Ridge Area #10-18D-36 BTR Well**  
Surface: 2,164' FSL & 2,286' FEL, NWSE, 18-T3S-R6W, USM  
Bottom Hole: 1,689' FSL & 1,769' FEL, NWSE, 18-T3S-R6W, USM  
Duchesne County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

A handwritten signature in blue ink that reads "David Watts" with a stylized flourish at the end.

David Watts  
Landman

1099 18<sup>TH</sup> STREET  
SUITE 2300  
DENVER, CO 80202  
P 303.293.9100  
F 303.291.0420



**BILL BARRETT CORPORATION**

**TYPICAL CROSS SECTIONS FOR**

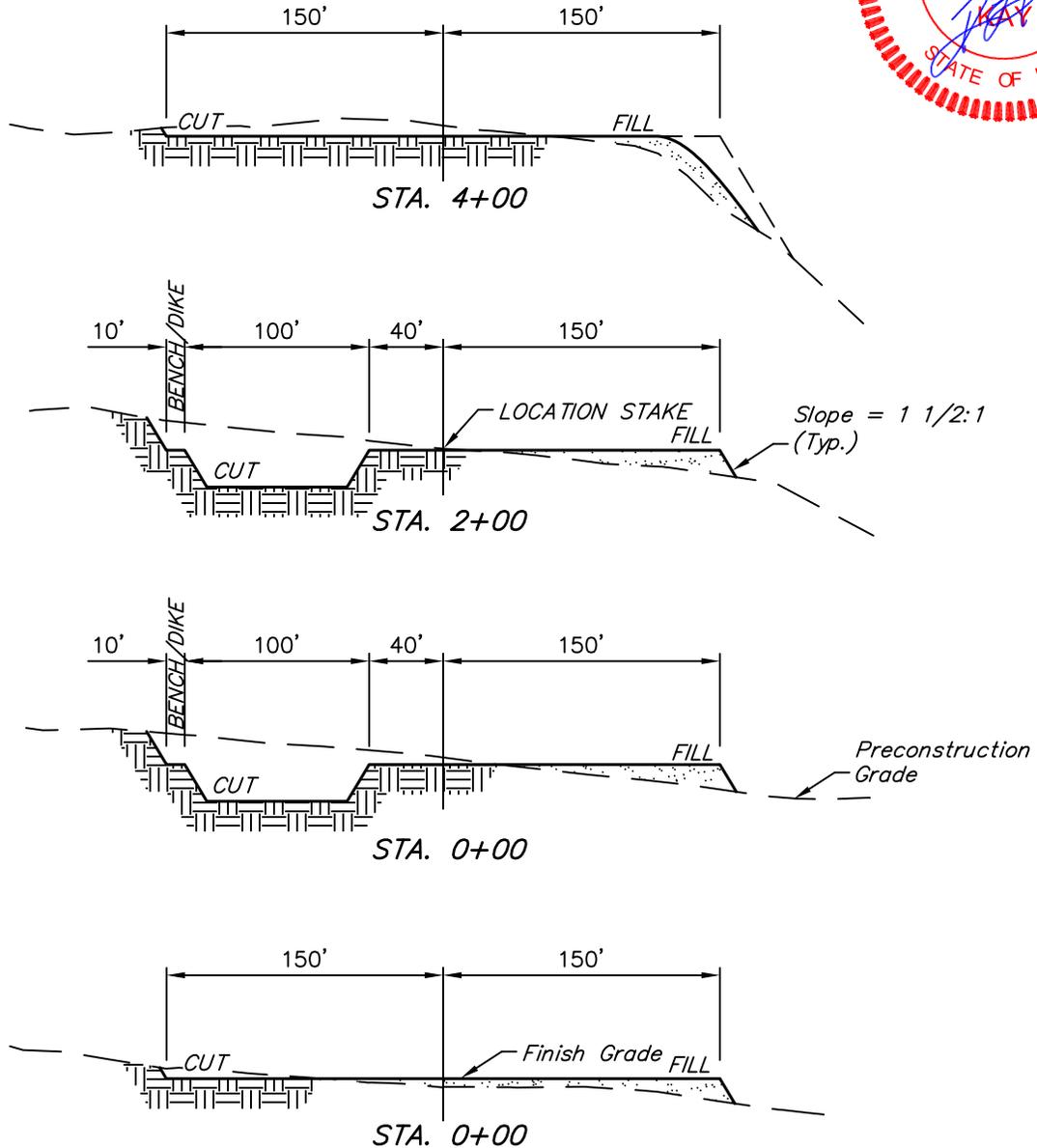
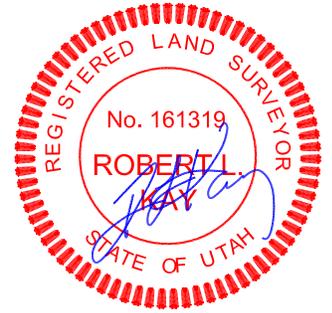
#10-18D-36 BTR

SECTION 18, T3S, R6W, U.S.B.&M.

2164' FSL 2286' FEL

**FIGURE #2**

X-Section Scale  
1" = 100'  
DATE: 02-23-11  
DRAWN BY: K.O.



**NOTE:**

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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 4.387 ACRES  
ACCESS ROAD DISTURBANCE = ± 0.095 ACRES  
PIPELINE DISTURBANCE = ± 0.196 ACRES  
TOTAL = ± 4.678 ACRES

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping = 2,470 Cu. Yds.  
Remaining Location = 12,230 Cu. Yds.  
**TOTAL CUT = 14,700 CU.YDS.**  
**FILL = 5,820 CU.YDS.**

EXCESS MATERIAL = 8,880 Cu. Yds.  
Topsoil & Pit Backfill (1/2 Pit Vol.) = 4,930 Cu. Yds.  
EXCESS UNBALANCE (After Interim Rehabilitation) = 3,950 Cu. Yds.

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

# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

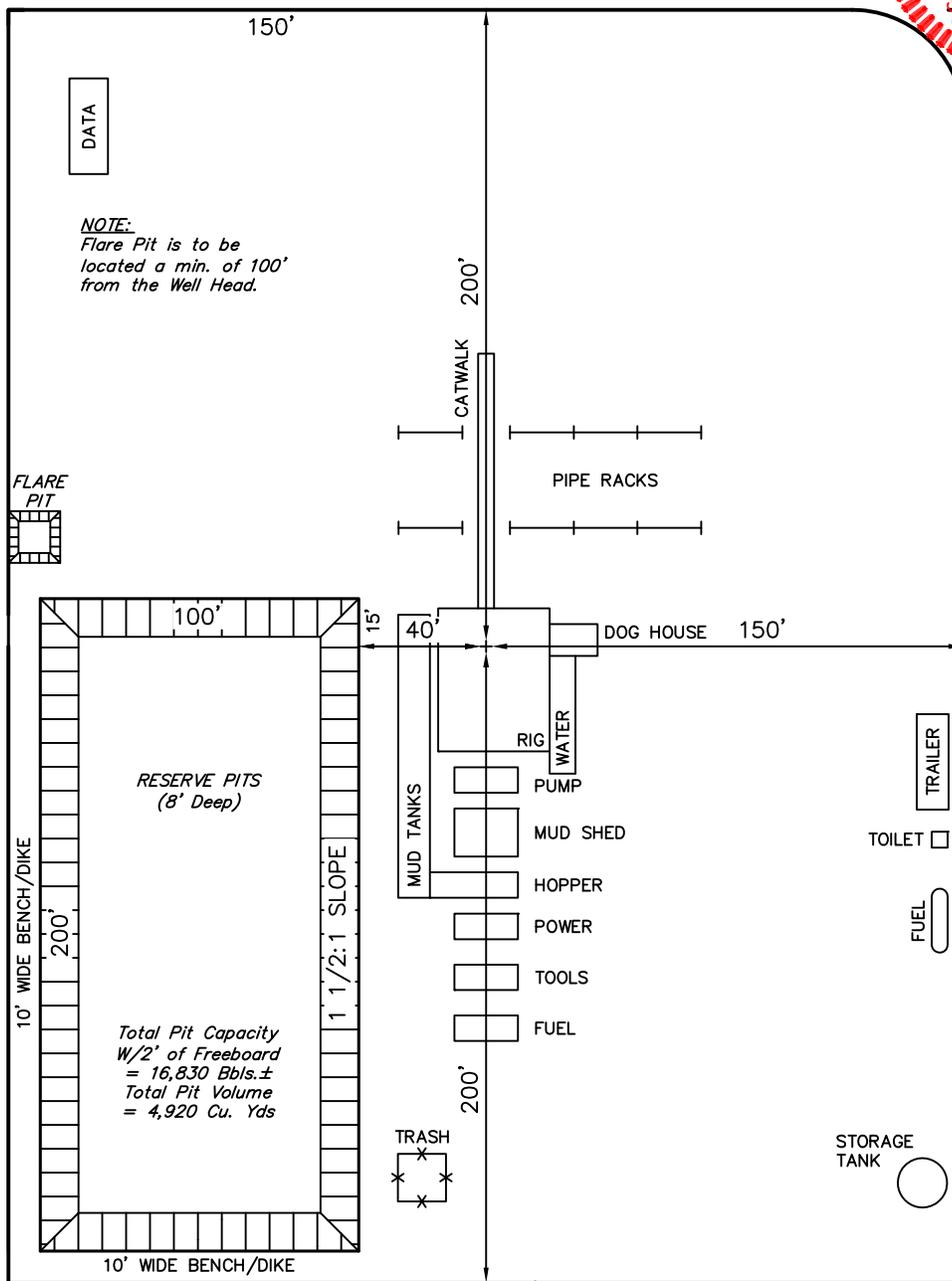
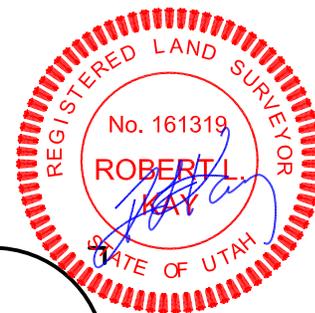
#10-18D-36 BTR  
SECTION 18, T3S, R6W, U.S.B.&M.  
2164' FSL 2286' FEL

FIGURE #3

SCALE: 1" = 60'

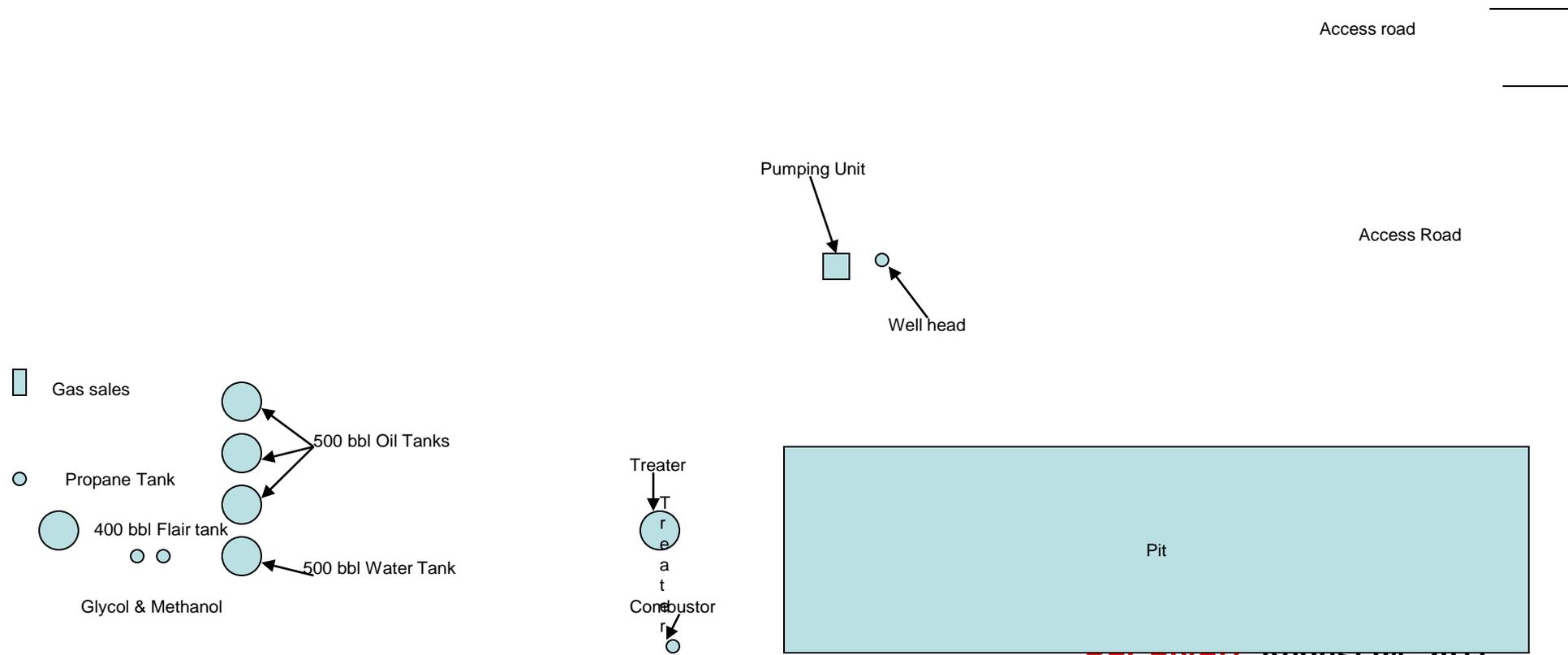
DATE: 02-23-11

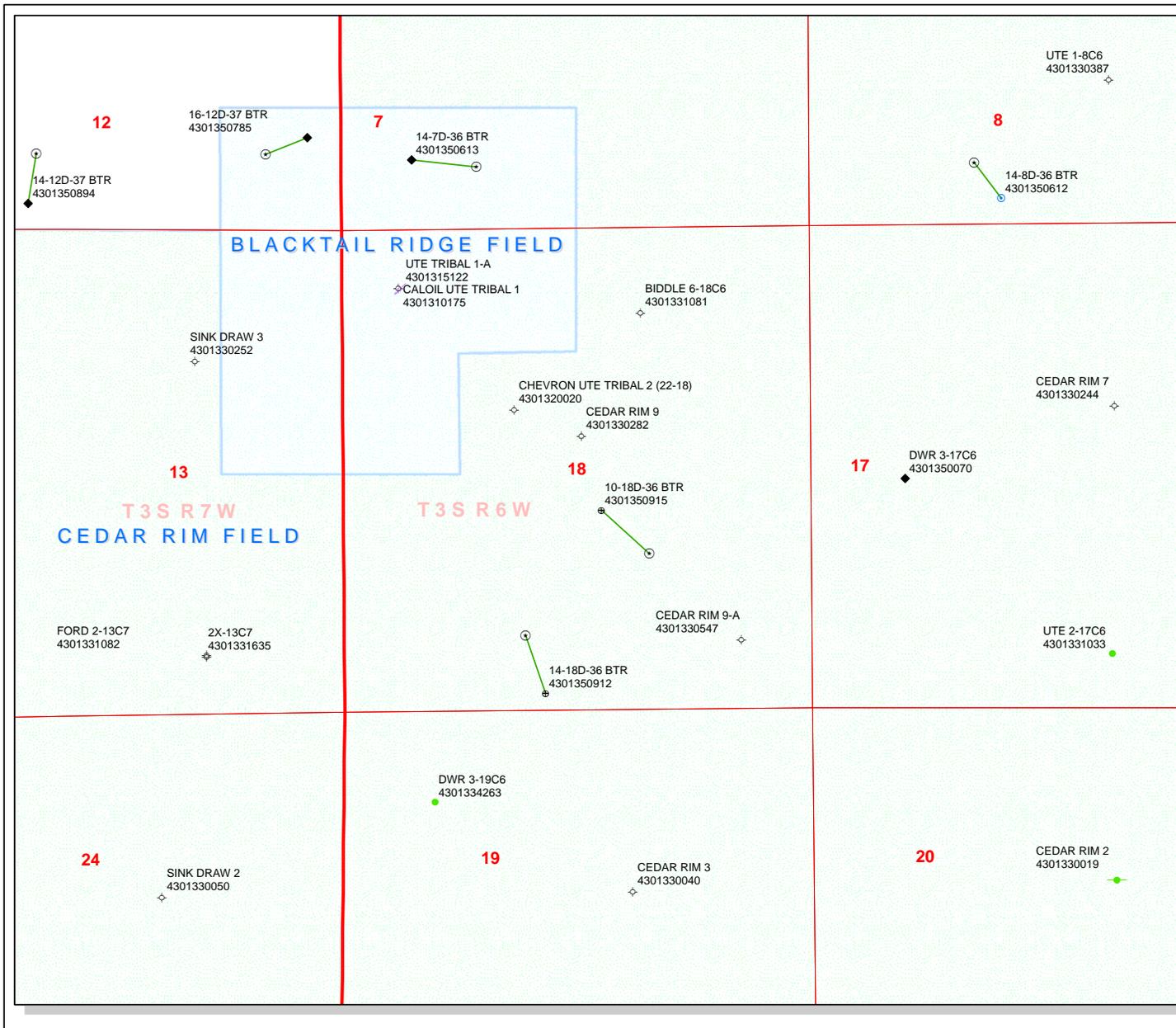
DRAWN BY: K.O.



Proposed Access Road

# 10-18D-36 BTR FACILITY DIAGRAM

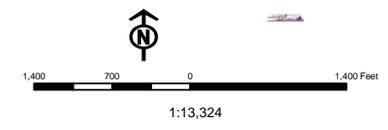




**API Number: 4301350915**  
**Well Name: 10-18D-36 BTR**  
**Township T0.3 . Range R0.6 . Section 18**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <b>STATUS</b> | <b>Status</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERML  | PA - Plugged Abandoned             |
| PP OIL        | PGW - Producing Gas Well           |
| SECONDARY     | POW - Producing Oil Well           |
| TERMINATED    | RET - Returned APD                 |
| <b>Fields</b> | SGW - Shut-in Gas Well             |
| Unknown       | SOW - Shut-in Oil Well             |
| ABANDONED     | TA - Temp. Abandoned               |
| ACTIVE        | TW - Test Well                     |
| COMBINED      | WDW - Water Disposal               |
| INACTIVE      | WIW - Water Injection Well         |
| STORAGE       | WSW - Water Supply Well            |
| TERMINATED    |                                    |
| Sections      |                                    |
| Township      |                                    |



# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** 10-18D-36 BTR  
**API Number** 43013509150000      **APD No** 4322      **Field/Unit** CEDAR RIM  
**Location: 1/4,1/4** NWSE      **Sec** 18      **Tw** 3.0S      **Rng** 6.0W      2164 FSL 2286 FEL  
**GPS Coord (UTM)** 533696 4451865      **Surface Owner** Terry Douglas and Lanette Rae Carlsen; Trustees

### Participants

James Hereford (BLM), Kary Eldredge (Bill Barrett), Roger Knight (Bill Barrett), Don Hamilton (Star Point), Trevor Anderson (UELS), Matt Serfustini (EIS), Richard Powell (DOGMA), Kelly Jo Jackson (Montgomery), Terry Douglas Carlsen (land owner)

### Regional/Local Setting & Topography

This location sits on a slightly south sloped area near a well traveled dirt road approximately 500 ft to the west of Rabbit Gulch. Rabbit Gulch is the main drainage for this region and flows to Starvation Lake approximately 5 miles to the east. The location sits approximately midway between Hwy 40 and Blacktail Mountain. Blacktail Mountain is the large ridge visible to the north of Hwy 40 between Fruitland and Duchesne, UT. This site is approximately 12 miles west of Duchesne, UT.

### Surface Use Plan

**Current Surface Use**  
Wildlife Habitat

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.05	<b>Width</b> 290 <b>Length</b> 400	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Deer, elk, coyote, rabbits and other small mammals, song birds, raptors  
Scattered pinion and juniper, grasses, sage, winter fat

#### **Soil Type and Characteristics**

Sandy loam soil

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required? Y**

Due to close proximity to Rabbit Gulch location must be bermed

**Erosion Sedimentation Control Required? N**

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

**Reserve Pit**

**Site-Specific Factors**

**Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0	
<b>Distance to Surface Water (feet)</b>	300 to 1000	2	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>	300 to 1320	10	
<b>Native Soil Type</b>	Mod permeability	10	
<b>Fluid Type</b>	Fresh Water	5	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>	10 to 20	5	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
	<b>Final Score</b>	32	1 Sensitivity Level

**Characteristics / Requirements**

The proposed reserve pit is in a stable location in cut. Dimensions are 100 ft x 200 ft x 8 ft deep. According to Bill Barrett representative Kary Eldredge a 16 mil liner and felt sub-liner will be used. This will be adequate for this site.

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

**Other Observations / Comments**

Richard Powell  
**Evaluator**

7/20/2011  
**Date / Time**

# Application for Permit to Drill

## Statement of Basis

8/9/2011

### Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
4322	43013509150000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Terry Douglas and Lanette Rae Carlsen; Trustees	
<b>Well Name</b>	10-18D-36 BTR		<b>Unit</b>		
<b>Field</b>	CEDAR RIM		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWSE 18 3S 6W U 2164 FSL 2286 FEL GPS Coord (UTM) 533686E 4451864N				

#### Geologic Statement of Basis

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

Brad Hill  
**APD Evaluator**

8/9/2011  
**Date / Time**

#### Surface Statement of Basis

This onsite evaluation was scheduled by James Hereford of the BLM in cooperation with Bill Barrett Corp. The land owner Terry Douglas Carlsen was in attendance. Mr. Carlsen had many things to say and occupied a good deal of time stating his concerns. First, Mr. Carlsen made it very clear that he had fought hard to stop this well from being drilled. Other concerns of Mr. Carlsen were that the pump jack motor be quiet, that there not be too much traffic and speed be moderte, and that the production equipment be placed at the lowest elevation possible so as to not be visible from his home. Next, Mr. Carlsen asked that the well pad and access road be completely fenced to keep his horses out. This is beneficial to both parties as Kary Eldredge stated Bill Barrett's distaste for cattle guards and with this fencing request it will not be necessary. Also Mr. Carlsen and Mr. Hereford requested that the removed wood be placed to the side in a low area near the wash so that it can be used for reclamation use when the time comes. Finally, Mr. Carlsen asked and Mr. Eldredge agreed to close the reserve pit quickly after completion of well.

Richard Powell  
**Onsite Evaluator**

7/20/2011  
**Date / Time**

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

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 8/4/2011**API NO. ASSIGNED:** 43013509150000**WELL NAME:** 10-18D-36 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 312-8172**CONTACT:** Venessa Langmacher**PROPOSED LOCATION:** NWSE 18 030S 060W**Permit Tech Review:** **SURFACE:** 2164 FSL 2286 FEL**Engineering Review:** **BOTTOM:** 1689 FSL 1769 FEL**Geology Review:** **COUNTY:** DUCHESNE**LATITUDE:** 40.21841**LONGITUDE:** -110.60411**UTM SURF EASTINGS:** 533686.00**NORTHINGS:** 4451864.00**FIELD NAME:** CEDAR RIM**LEASE TYPE:** 2 - Indian**LEASE NUMBER:** 2OG0005608**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 4 - Fee**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- PLAT**
- Bond:** INDIAN - LPM8874725
- Potash**
- Oil Shale 190-5**
- Oil Shale 190-3**
- Oil Shale 190-13**
- Water Permit:** Duchesne City Culinary Water Dock
- RDCC Review:**
- Fee Surface Agreement**
- Intent to Commingle**

**Commingle Approved****LOCATION AND SITING:**

- R649-2-3.**
- Unit:**
- R649-3-2. General**
- R649-3-3. Exception**
- Drilling Unit**
- Board Cause No:** Cause 139-84
- Effective Date:** 12/31/2008
- Siting:** 660' Fr Drl U Bdry & 1320' Fr Other Wells
- R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:** 4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** 10-18D-36 BTR  
**API Well Number:** 43013509150000  
**Lease Number:** 2OG0005608  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 8/9/2011

**Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**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.

**Conditions of Approval:**

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

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

**RECEIVED**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

AUG 08 2011

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 2OG0005608
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION		7. If Unit or CA Agreement, Name and No.
Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		8. Lease Name and Well No. 10-18D-36 BTR
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420	9. API Well No. 43-013-50915
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWSE 2164FSL 2286FEL 40.218353 N Lat, 110.604747 W Lon At proposed prod. zone NWSE 1689FSL 1769FEL 40.217053 N Lat, 110.602900 W Lon		10. Field and Pool, or Exploratory CEDAR RIM
14. Distance in miles and direction from nearest town or post office* 13.9 MILES NORTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 18 T3S R6W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1689' (BOTTOM HOLE)	16. No. of Acres in Lease 66101.00	12. County or Parish DUCHESNE
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1347'	19. Proposed Depth 10817 MD 10714 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6199 GL	22. Approximate date work will start 01/01/2012	17. Spacing Unit dedicated to this well 640.00
		20. BLM/BIA Bond No. on file LPM8874725
		23. Estimated duration 60 DAYS (D&C)

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 08/04/2011
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date OCT 24 2011
Title Assistant Field Manager Lands & Mineral Resources		
Office VERNAL FIELD OFFICE		

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

**CONDITIONS OF APPROVAL ATTACHED**

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

Additional Operator Remarks (see next page)

Electronic Submission #114528 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by LESLIE ROBINSON on 08/08/2011 ()

NOTICE OF APPROVAL

**UDOGM**

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

11SS0173A9

NOS - 7/11/2011

OCT 27 2011



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	Location:	NWSE, Sec. 18 T3S R6W USM
Well No:	10-18-36 BTR	Lease No:	EDA 2OG0005608
API No:	43-013-50915	Agreement:	2OG0005608

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (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 (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- 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. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM 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.

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

- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable surface use agreements, APD's, COAs, and 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.
- Production equipment will be placed to minimize visual impacts to the landowner.
- Wood shall be saved per the surface owner's recommendations piled up around well pad or along backside of pad above the dry wash to the North. Wood from the locations can also be used for reclamation purposes and habitat improvements in the future.
- Noxious weeds will be treated, monitored, and controlled along both the access road, pipeline route, and on the well pad itself.
- Minimal vegetation removal around the well pad to lessen the visual impact and to aid in revegetation efforts in the future.
- Insure topsoil stability on location and use topsoil for interim reclamation as soon as possible to maintain viability of topsoil resource.
- Pipeline will be buried adjacent to the access road and reclaimed as soon as recontouring takes place and seeded prior to ground freeze.
- All above ground production facilities will be painted Beetle Green on all locations to help blend in with the surrounding habitat.
- Roads should be crown and ditched to divert any runoff from pooling on the road surface itself, this also aids in lessening erosion on the road and disturbed area. Wing ditches can be installed to also aid in controlling runoff from affecting the proposed road. These should be spaced to adequately catch any runoff along the ditches and aid in diverted water to the surrounding vegetation.
- A culvert of adequate size will be placed where the access road leaves the main county road as discussed on the onsite. At a minimum this culvert would be an 18" diameter with adequate rip rap on the down gradient side to lessen undercutting and soil loss.
- Operator agreed to fencing off the entire location to preclude landowner's horses from entering the site of operations.

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- Divert minor flow patterns away from the well pad as indicated on the approved well plats in figure #1.
- Production tanks should be placed so operator can maximize the amount of interim reclamation accomplished on areas not needed for long term production. This would help to lessen the amount of soils lost and maintain viable topsoil for final reclamation efforts.
- A 20 ml liner will be used in the pit to lessen the chance of pit fluids from entering the groundwater system.
- Landowner requested a pre and post testing of his existing water well to ensure operations does not affect his water too his property.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources, prevent unnecessary surface disturbance, and conform to currently available technologies and practices.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact Private land owner or the BLM for possible seed mixes to use in the project area. Seeds should be planted in August and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 400 ft. above the surface casing shoe.

**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

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BLM VERNAL FIELD OFFICE

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 BLM\_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.

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BLM UT VN VERNAL

## 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.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- 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 ( $\frac{1}{4}$  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

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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.

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DIR. OF OIL, GAS & MIN.

<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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR	
<b>9. API NUMBER:</b> 43013509150000	
<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM	
<b>COUNTY:</b> DUCHESNE	
<b>STATE:</b> UTAH	
<b>1. TYPE OF WELL</b> Oil Well	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	
<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> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U	

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: 8/9/2012	<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 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.

This sundry is being submitted to request an extension on this APD which expires on 8/9/2012.

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

**Date:** July 30, 2012

**By:**

<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> 7/24/2012	



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

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013509150000**

API: 43013509150000

Well Name: 10-18D-36 BTR

Location: 2164 FSL 2286 FEL QTR NWSE SEC 18 TWNP 030S RNG 060W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 8/9/2011

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: Megan Finnegan

Date: 7/24/2012

Title: Permit Analyst Representing: BILL BARRETT CORP

<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>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509150000
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<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM  <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: <b>2/15/2013</b>	<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 checked="" type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	<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 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 hereby requests to change the 10-3/4" surface casing that was approved for this location to 9-5/8" at 3500'. Please see revised drilling program attached.

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

**Date:** January 17, 2013

**By:** *Derek Quist*

<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> 1/16/2013	

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**10-18D-36 BTR**

NW SE, 2164' FSL and 2286' FEL, Section 18, T3S-R6W, USB&M (surface hole)

NW SE, 1689' FSL and 1769' FEL, Section 18, T3S-R6W, USB&M (bottom hole)

Duchesne County, Utah

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

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	3,867'	3,864'
Lower Green River*	6,186'	6,134'
Douglas Creek	7,030'	6,964'
Black Shale	7,611'	7,544'
Uteland Butte	8,196'	8,129'
Wasatch*	8,681'	8,614'
TD	10,781'	10,714'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 2,362'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 3,500'	No pressure control required
3,500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 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.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	3,500'	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

Bill Barrett Corporation  
 Drilling Program  
 10-18D-36 BTR  
 Duchesne County, Utah

### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 540 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 3,000'
5 1/2" Production Casing	Lead: 680 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 3,000' Tail: 990 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 7,111'

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 3,500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3,500' – TD	8.6 – 9.6	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. 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.

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5348 psi\* and maximum anticipated surface pressure equals approximately 2991 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  
10-18D-36 BTR  
Duchesne County, Utah

**9. 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  
Mud monitoring will be visually observed

**10. 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 water right number 43-180.

**11. Drilling Schedule**

Location Construction: February 2013  
Spud: February 2013  
Duration: 15 days drilling time  
45 days completion time

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013509150000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/5/2013	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> 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 2/5/2013 at 8:00 am by Triple A Drilling.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          February 13, 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> 2/6/2013	

**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
4301350915	10-18D-36 BTR		NWSE	18	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	new	100004	2/5/2013			2/19/2013	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:00 am. GR-WS							

**Well 2**

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

**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

2/6/2013

Title

Date

**RECEIVED**  
**FEB 07 2013**

Div. of Oil, Gas & Mining

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

FORM 6

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**Well 2**

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

**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)
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- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

2/6/2013

Title

Date

**RECEIVED**  
**FEB 07 2013**

Div. of Oil, Gas & Mining

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
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	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
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	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
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	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. February 2013 monthly drilling report attached.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          March 06, 2013</b>		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/5/2013	

**10-18D-36 BTR 2/10/2013 01:00 - 2/10/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	5.00	06:00	1	RIGUP & TEARDOWN	RIGGED DOWN 15%. MOVE MISC ITEMS - DP, DC'S, TANKS, ETC. WINTERIZE ALL LINES.

**10-18D-36 BTR 2/10/2013 06:00 - 2/11/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	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	CONTINUE TO RIG DOWN & MOVE. WINTERIZE ALL LINES. MOVED ENGINES, SHAKERS, UPRIGHT WATER TANKS, BARITE & CEMENT TANKS.  MAST DOWN AT 15:30 HRS. 80% RIGGED DOWN, 40% MOVED, 0% RIGGED UP.
18:00	12.00	06:00	22	OPEN	WAIT ON DAYLIGHT.

**10-18D-36 BTR 2/11/2013 06:00 - 2/12/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	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	RIG DOWN. DISMANTLE & MOVE MAST & SUBSTRUCTURE. MOVE MUD TANKS, MCC, VFD, UTILITY HOUSE, MUD PUMPS, DIESEL TANK, BOILER, CHOKE HOUSE.  95% MOVED, 20% RIGGED UP.
18:00	12.00	06:00	22	OPEN	WAIT ON DAYLIGHT.

**10-18D-36 BTR 2/12/2013 06:00 - 2/13/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	19.50	01:30	1	RIGUP & TEARDOWN	RIG DOWN, MOVE & RIG UP CAMP. SET MATS, STACK UP SUBSTRUCTURE, INSTALL DRAWWORKS & CHANGE OUT DRAWWORKS MOTOR. PIN MAST TO RIG FLOOR & STRING UP. MAST UP @ 15:50 HRS. RIG UP HEATERS, STEAM LINES, RIG FLOOR. START BOILER.
01:30	4.50	06:00	8	REPAIR RIG	WORK ON ELECTRICAL FAULT ON NEW DRAWWORKS MOTOR.

**10-18D-36 BTR 2/13/2013 06:00 - 2/14/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	8	REPAIR RIG	WORK ON ELECTRICAL FAULT ON NEW DRAWWORKS MOTOR. FOUND FAULT IN ESD CONNECTOR.
13:30	7.25	20:45	1	RIGUP & TEARDOWN	CONTINUE TO RIG UP. CONNECT BLOCKS TO TOP DRIVE. INSTALL MOUSEHOLE & 16" RISER & HOOK UP FLOWLINE & TIE-DOWNS. CHANGE TD SAVER SUB. LOAD RACK/MEASURE DRILLING TOOLS, MIX SPUD MUD, CALIBRATE SPERRY TOOLS.
20:45	0.50	21:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
21:15	2.25	23:30	1	RIGUP & TEARDOWN	MAKE UP 12 1/4 BHA & TAG UP AT 104'.
23:30	2.00	01:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 104-161'. ROP 28.5 FPH.
01:30	0.50	02:00	20	DIRECTIONAL WORK	MAKE UP RR, NMDC & XO.
02:00	1.50	03:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 161-198'. ROP 24.7 FPH.
03:30	0.25	03:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 198-203'. ROP 20 FPH.
03:45	1.50	05:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 203-261'. ROP 38.7 FPH.
05:15	0.25	05:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 261-267'. ROP 24 FPH.
05:30	0.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 267-291'. ROP 48 FPH.

**10-18D-36 BTR 2/14/2013 06:00 - 2/15/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.75	07:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 291-356'. ROP 37.1 FPH.
07:45	0.25	08:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 356-364'. ROP 32 FPH.
08:00	3.00	11:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 364-508'. ROP 48 FPH.
11:00	0.25	11:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 508-516'. ROP 32 FPH.
11:15	1.25	12:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 516-600'. ROP 67.2 FPH.
12:30	0.50	13:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
13:00	0.25	13:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 600-608'. ROP 32 FPH.
13:15	1.75	15:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 608-693'. ROP 48.6 FPH. LOST RETURNS AT 688'.
15:00	0.25	15:15	5	COND MUD & CIRC	SLOW PUMPS & MIX LCM & PUMP BACK TO SHAKERS. GAINED BACK RETURNS. BYPASSED SHAKERS.
15:15	1.00	16:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 693-703'. ROP 12 FPH.
16:15	2.50	18:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 703-786'. ROP 33.2 FPH. SHAKING OUT LCM.
18:45	1.00	19:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 786-796'. ROP 10 FPH.
19:45	2.25	22:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 796-880'. ROP 37.3 FPH.
22:00	0.50	22:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 880-888'. ROP 16 FPH.
22:30	2.25	00:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 888-968'. ROP 35.6 FPH.
00:45	0.25	01:00	5	COND MUD & CIRC	LOST RETURNS AT 968'. PUMP HIVIS/LCM SWEEP & MIX LCM. BYPASS SHAKERS.
01:00	0.25	01:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 968-974'. ROP 24 FPH.
01:15	0.75	02:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 974-982'. ROP 10.7 FPH.
02:00	2.50	04:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 982-1069'. ROP 34.8 FPH.
04:30	0.75	05:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1069-1077'. ROP 10.7 FPH.
05:15	0.75	06:00	2	DRILL ACTUAL	ROTATE DRILL W/ONE PUMP 1077-1084'. ROP 14 FPH.

**10-18D-36 BTR 2/15/2013 06:00 - 2/16/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.25	06:15	2	DRILL ACTUAL	ROTATE DRILL W/ONE PUMP 1084-1088'. ROP 16 FPH.
06:15	1.00	07:15	2	DRILL ACTUAL	SLIDE DRILL W/BOTH PUMPS 1088-1097'. ROP 9 FPH.
07:15	2.25	09:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1097-1153'. ROP 24.9 PUMP 60 BBL HIVIS/LCM SWEEP & BUILD SLUG.
09:30	3.25	12:45	6	TRIPS	PUMP SLUG & TRIP FOR NEW BIT #2. BIT COND: 1-2-WT-S-X-I-CT-PR. TIGHT ON RIH AT 783, 880 & 975'. WASH LAST 4 STANDS.
12:45	2.75	15:30	2	DRILL ACTUAL	BREAK IN BIT & ROTATE DRILL 12 1/4 HOLE 1153-1256'. ROP 37.5 FPH.
15:30	0.50	16:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
16:00	5.50	21:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1256-1538'. ROP 51.3 FPH.
21:30	0.25	21:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1538-1543'. ROP 20 FPH. LOST RETURNS @ 1543'.
21:45	1.25	23:00	5	COND MUD & CIRC	REDUCE PUMP RATE & PUMP LCM SWEEP & MIX LCM IN ACTIVE SYSTEM. BYPASS SHAKERS. REGAINED RETURNS & STAGE UP PUMPS TO DRILLING RATE.
23:00	2.00	01:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1543-1633'. ROP 45 FPH.
01:00	0.75	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1633-1643'. ROP 13.3 FPH.
01:45	2.25	04:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1643-1727'. ROP 37.3 FPH.
04:00	0.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1727-1739'. ROP 24 FPH.
04:30	1.25	05:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1739-1785'. ROP 36.8 FPH. LOST RETURNS @ 1785'.
05:45	0.25	06:00	5	COND MUD & CIRC	REDUCE PUMP RATE & PUMP LCM SWEEP. SHAKERS STILL BYPASSED. MUD LEVEL ~2' FROM FLOWLINE. 15% LCM IN SYSTEM.

**10-18D-36 BTR 2/16/2013 06:00 - 2/17/2013 06:00**

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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	5	COND MUD & CIRC	MIX/PUMP LCM. MUD LEVEL NOW OUT OF SIGHT. AT 07:00 HRS, MUD LEVEL AT BOP DECK. PUMP 50 BBL 35% LCM PILL & CHASE OUT OF STRING.
08:00	1.75	09:45	5	COND MUD & CIRC	POH 5 STANDS TO 1330'. PUMP 45 GPM INTO ANNULUS WHILE WAITING ON LCM PILL. MUD LEVEL UP TO BOP DECK WHEN PUMPING IN, FALLS OUT OF SIGHT W/O PUMPING. MIX ANOTHER 50 BBL 40% LCM PILL.
09:45	0.75	10:30	6	TRIPS	RIH 3 STANDS TO 1630'. SPOT 40% LCM PILL. POH BACK TO 1330'.
10:30	5.00	15:30	5	COND MUD & CIRC	PUMP 45 GPM INTO BACKSIDE WHILE WAIT ON LCM. HOLE FILLED AT 11:00 HRS & BEGAN PUMPING DOWN STRING. GETTING ~60% RETURNS. CONTINUE MIXING LCM & BUILDING VOLUME. SLOWLY STAGING UP PUMP RATE TO 810 GPM.
15:30	1.50	17:00	6	TRIPS	RIH SLOWLY WASHING BACK TO TD.
17:00	1.00	18:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1785-1821' W/NEAR FULL RETURNS. ROP 36 FPH.
18:00	1.50	19:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1821-1843'. ROP 14.7 FPH.
19:30	1.75	21:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1843-1916'. ROP 41.7 FPH.
21:15	1.50	22:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 1916-1944'. ROP 18.7 FPH.
22:45	1.25	00:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1944-2010'. ROP 52.8 FPH.
00:00	1.75	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2010-2035'. ROP 14.3 FPH.
01:45	2.00	03:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2035-2104'. ROP 34.5 FPH.
03:45	2.25	06:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2104-2130'. ROP 11.6 FPH.
					SHAKERS BYPASSED, 30% LCM.

**10-18D-36 BTR 2/17/2013 06:00 - 2/18/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.75	07:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2130-2199'. ROP 39.4 FPH.
07:45	1.25	09:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2199-2221'. ROP 17.6 FPH.
09:00	1.50	10:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2221-2293'. ROP 48 FPH.
10:30	1.50	12:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2293-2315'. ROP 14.7 FPH.
12:00	1.25	13:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2315-2387'. ROP 57.6 FPH.
13:15	0.50	13:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
13:45	1.50	15:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2387-2409'. ROP 14.7 FPH.
15:15	1.50	16:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2409-2482'. ROP 48.7 FPH.
16:45	2.25	19:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2482-2507'. ROP 11.1 FPH.
19:00	1.75	20:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2507-2576'. ROP 39.4 FPH.
20:45	0.25	21:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2576-2581'. ROP 20 FPH.
					LOST ALL RETURNS @ 2580'.
21:00	9.00	06:00	5	COND MUD & CIRC	MIX/PUMP LCM 3 X 50 BBL LCM SWEEPS. MUD STILL OUT OF SIGHT. MIXING DRILLCHEM BLOCKADE SQUEEZE.

**10-18D-36 BTR 2/18/2013 06:00 - 2/19/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	5	COND MUD & CIRC	MIX/PUMP BLOCKADE SQUEEZE.
08:30	0.50	09:00	6	TRIPS	POH SLOWLY TO 2200'.
09:00	2.00	11:00	5	COND MUD & CIRC	PUMP DOWN STRING AT 112 GPM. MUD LEVEL OUT OF SIGHT AT START, IN SIGHT AFTER PUMPING 220 BBL, BUT NOT RISING.
11:00	2.00	13:00	5	COND MUD & CIRC	MIX A 100 BBL 40% LCM SWEEP & PUMP DOWN STRING @ 112 SPM.
13:00	0.50	13:30	6	TRIPS	RIH TO 2580'.
13:30	0.50	14:00	5	COND MUD & CIRC	SPOT 100 BBL 40% LCM.
14:00	0.25	14:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2581-2582'. NO RETURNS.
14:15	0.75	15:00	6	TRIPS	PULL 4 STANDS TO 2200'.
15:00	1.50	16:30	5	COND MUD & CIRC	PUMP 112 GPM DOWN STRING WHILE WAITING ON RENTAL PUMP TO PUMP FROM RESERVE TO MUD TANKS & FILLING RESERVE W/WATER. RETURNS OBSERVED AT 15:30 HRS. STAGE UP PUMPS W/FULL RETURNS.
16:30	0.50	17:00	6	TRIPS	RIH TO TD.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:00	1.75	18:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2582-2607'. ROP 14.3 FPH.
18:45	1.50	20:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2607-2670'. ROP 42 FPH.
20:15	1.25	21:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2670-2698'. ROP 22.4 FPH.
21:30	1.75	23:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2698-2765'. ROP 38.3 FPH.
23:15	1.25	00:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2765-2783'. ROP 14.4 FPH.
00:30	3.00	03:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2783-2859'. ROP 25.3 FPH.
03:30	2.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2859-2883'. ROP 9.6 FPH.  30% LCM, SHAKERS BYPASSED.

**10-18D-36 BTR 2/19/2013 06:00 - 2/20/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2883-2952'. ROP 23 FPH.  SHAKERS BYPASSED, 30% LCM.
09:00	0.50	09:30	5	COND MUD & CIRC	CIRCULATE WHILE MIX SLUG & PUMP SLUG.
09:30	3.50	13:00	6	TRIPS	POH FOR BIT #3. CHANGE MWD PROBE.  WHILE POH, TIGHT HOLE AT 1045, 953, 890, 765, 490, 330 & 235'.. TEMPORARILY STUCK AT 490' & STRING PLUGGED AT ~2380'.
13:00	1.75	14:45	6	TRIPS	BREAK OFF BIT & LAY DOWN MOTOR.  BIT #2 COND: 4-2-BT-C-X-I-BU/PN-PR. MOTOR PLUGGED W/LCM..
14:45	0.50	15:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE & CHANGE GRABBER DIES.
15:15	1.00	16:15	6	TRIPS	MAKE UP NEW MOTOR & BIT #3. SCRIBE MOTOR BEND TO MWD.
16:15	1.75	18:00	6	TRIPS	RIH TO 2857'. NO HOLE TROUBLE. PRECAUTIONARY WASH LAST STAND TO TD.
18:00	0.25	18:15	2	DRILL ACTUAL	BREAK IN BIT & ROTATE DRILL 12 1/4 HOLE 2952-2958'. ROP 24 FPH.
18:15	1.50	19:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2958-2984'. ROP 17.3 FPH.
19:45	1.25	21:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2984-3048'. ROP 51.2 FPH.
21:00	0.75	21:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3048-3058'. ROP 13.3 FPH.
21:45	0.75	22:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3058-3075'. ROP 22.7 FPH.
22:30	1.00	23:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3075-3090'. ROP 15 FPH.
23:30	1.00	00:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3090-3142'. ROP 52 FPH.
00:30	1.50	02:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3142-3170'. ROP 18.7 FPH.
02:00	1.25	03:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3170-3236'. ROP 52.8 FPH.
03:15	1.75	05:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3236-3264'. ROP 16 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3264-3331'. ROP 67 FPH.  SHAKERS BYPASSED. MW 9.0 PPG.

**10-18D-36 BTR 2/20/2013 06:00 - 2/21/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.75	11:45	2	DRILL ACTUAL	"DRLG 12 1/4" HOLE F/ 3331' TO 3525' (194' IN 5.75 HR = 33.7 FPH) SLIDE: 65' IN 3.75 HR = 17.9 FPH, ROTATE:129' IN 2 HR = 64.5 FPH. 3.31' RIGHT AND 5.34' BELOW PLAN.
11:45	0.50	12:15	5	COND MUD & CIRC	CIRC. COND F/ CASING
12:15	1.00	13:15	6	TRIPS	SHORT TRIP 15 STDS
13:15	0.50	13:45	5	COND MUD & CIRC	CIRC COND F/ CASING
13:45	3.25	17:00	6	TRIPS	TOOH L/D 8" TOOLS. MOTOR PLUGED 15 STDS OUT
17:00	5.00	22:00	12	RUN CASING & CEMENT	HSM RIG UP KIMZEY CASING AND RUN FC (1.42) , SHOE JT (44.05), FC (.92) 80 JTS 9 5/8" J55 36# ST&C CASING (3478.51') LANDED @ 3520' MADE UP W/ BESTOLIFE DOPE TO3940 FT/LB.
22:00	2.25	00:15	5	COND MUD & CIRC	MIX LCM TO GET RETURNS BACK LOST 600 BLS MUD. GOT FULL RETURN @ 7 1/2 BL/MIN.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
00:15	3.25	03:30	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 20 BLS H2O, 40 BLS SUPER FLUSH, 20 BLS H2O, 600 SKS HLC PREMIUM W/ 5LB SILICALITE, .125 LB POLY-E-FLAKE, .25 LB KWIK SEAL.TAILED W/ 240SKS PREIMIUM PLUS W/ .125 LB POLY-E-FLAKE, DISPLACED W/ 268 BL H2O. LOST RETURNS W/ 20 LEFT OF TAIL. GOT PARTIAL RETURN W/ 118 LEFT OF DIPACEMENT. FLUID FELL OUT OF SIGHT IN 10 MINS.
03:30	0.50	04:00	15	TEST B.O.P	TEST CASING TO 1500# F/ 30 MINS.
04:00	2.00	06:00	13	WAIT ON CEMENT	WOC. WILL TOP OFF TODAY.

**10-18D-36 BTR 2/21/2013 06:00 - 2/22/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	13	WAIT ON CEMENT	WOC
07:00	1.25	08:15	12	RUN CASING & CEMENT	TOP OUT W/ 1" 120 SKS CLASS G 15.8# 1.17 YEILD W/ 3% CACL. 25 BL.CEMENT FELL 12' BELOW GROUND LEVEL
08:15	2.50	10:45	13	WAIT ON CEMENT	WOC
10:45	3.25	14:00	14	NIPPLE UP B.O.P	WELD ON WELL HEAD
14:00	1.00	15:00	14		NIPPLE UP BOP
15:00	4.00	19:00	15	TEST B.O.P	TEST BOPS TEST ALL RAMS AND VALVES TO 5000# F/ 10 MINS. ANNULAR TO 2500# F/ 10 MINS. IBOP WOULD NOT TEST. WILL CHANGE OUT BE FORE DRILLING.
19:00	0.50	19:30	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING
19:30	3.50	23:00	6	TRIPS	PICK UP BHA ORENTAT MWD, TIH
23:00	0.50	23:30	7	LUBRICATE RIG	RIG SERVICE. CHANGE IBOP.
23:30	1.50	01:00	21	OPEN	X/O IBOP
01:00	1.50	02:30	22	OPEN	DRILLOUT SHOE TRACK AND 10' OF NEW HOLE
02:30	0.50	03:00	23	OPEN	EMW 275 PSI WITH 8.5 MUD = 10#
03:00	3.00	06:00	2	DRILL ACTUAL	DRLG 8 3/4" HOL F/ 3525' TO 3754' (229' IN 3 HR = 76.3 FPH) SLIDE:25' IN .5 HR = 50 FPH ROTATE:201' IN 2.5 HR =80.4 FPH. MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB.

**10-18D-36 BTR 2/22/2013 06:00 - 2/23/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.25	19:15	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 3754' TO 4822' (1068' IN 13 .25 HR = 80.6 FPH) SLIDE: 108' IN 3.5 HR = 30.9 FPH. ROTATE: 960' IN 9.75 HR = 98.5 FPH. MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB
19:15	0.50	19:45	7	LUBRICATE RIG	RIG SERVICE
19:45	10.25	06:00	2	DRILL ACTUAL	DRLG F/ 4822' TO 5513' ( 691' IN 10.25 HR = 67.4 FPH) SLIDE: 60' IN 2.75 21.8 FPH, ROTATE: 631' IN 7.75 HR = 81.4 FPH. . 21.35' RIGHT AND 7.57BELOW PLAN.

**10-18D-36 BTR 2/23/2013 06:00 - 2/24/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.75	12:45	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 5513' TO 6047' (534' IN 6.75 HR = 79.1 FPH). MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB.
12:45	0.50	13:15	7	LUBRICATE RIG	RIG SERVICE
13:15	16.75	06:00	2	DRILL ACTUAL	DRLG F/ 6047' TO 7021' (974' IN 16.75 HR = 58.2 FPH) SLIDE; 63' IN 2.5 HR = 25.2 FPH. ROTATE: 911' IN 14.25 HR = 63.9 FPH. 43.18' LEFT AND 18.83' BELOW PLAN.

**10-18D-36 BTR 2/24/2013 06:00 - 2/25/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 7021 TO 7555' (534' IN 11 HR = 48.5 FPH) SLIDE: 47' IN 1.75 HR = 26.9 FPH. ROTATE: 487' IN 9.25 HR = 52.7 FPH. MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB.
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	12.50	06:00	2	DRILL ACTUAL	DRLG F/ 7555' TO 8037' (482' IN 12.5 HR = 38.6 FPH) SLIDE: 107' IN 5 HR = 21.4 FPH, ROTATE: 375' IN 7.5 HR = 50 FPH. 5.16' F/ PLAN. MIXING LCM NON STOP. SHAKING OUT.

**10-18D-36 BTR 2/25/2013 06:00 - 2/26/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	DRLG 8 1/4" HOLE F/ 8037 TO 8127' @ 72 FPH. MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB.
07:15	0.50	07:45	5	COND MUD & CIRC	CIRC PUMP DRY SLUG
07:45	7.00	14:45	6	TRIPS	TRIP F/ BIT #5
14:45	15.25	06:00	2	DRILL ACTUAL	DRLG F/ 8127' TO 8749' (620' IN 15.25 HR = 40.7 FPH), SLIDE: 65' IN 5.75 HR = 11.3 FPH, ROTATE: 555' IN 9.5 HR = 58.4 FPH. 14.64' F/ CENTER. SHAKER BY PASSED 11% LCM W/ 9.4 WT. DRILLED 7HR W/ 1 PUMP.

**10-18D-36 BTR 2/26/2013 06:00 - 2/27/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	DRLG F/ 8749' TO 9253' ( 494' IN 11 HR = 44.9 FPH) SLIDE: 67' IN 3.25 HR = 20.6 FPH, ROTATE; 427' IN 7.75 HR = 55.1 FPH. MM 63/4" SPERRY DRILL 7/8 LOBE 3.3 STAGE .14 GPR 1.5 FIXED BEND 4.85 BTB.
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	12.50	06:00	2	DRILL ACTUAL	DRLG F/ 9253' TO 9944' (691' IN 12.5 HR = 55.3 FPH) SLIDE:83' IN 3.25 HR = 25.5 FPH, ROTATE: 624' IN 9.25 HR = 67.5 FPH. 30.62' F/ CENTER



BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# HP319  
Submitted By JET LORENZEN Phone Number 970-623-7078  
Well Name/Number #10-18D-36 BTR  
Qtr/Qtr NW/SE Section 18 Township 3S Range 6W  
Lease Serial Number 2OG0005608  
API Number 43-013-50915

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 02/28/2013 15:00 AM  PM

BOPE

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

RECEIVED

FEB 27 2013

DIV. OF OIL, GAS & MINING

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

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<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> 10-18D-36 BTR
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013509150000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM
		<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: 4/8/2013	<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 4/5/2013 and first oil sales on 4/8/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 10, 2013**

<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> 4/10/2013	

<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>	
<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509150000
<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> CEDAR RIM	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S 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: 3/1/2013	<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.

Attached is the March 2013 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 April 17, 2013**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2013	

**10-18D-36 BTR 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	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	21	OPEN	CLEAN MUD TANKS. FULL OF CUTTINGS FROM BEING BY PASSED. RIG RELEASE @ 12:00 HR 3/1/13

**10-18D-36 BTR 3/6/2013 06:00 - 3/7/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
11:00	2.00	13:00	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 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

**10-18D-36 BTR 3/7/2013 06:00 - 3/8/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
09:00	7.00	16:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 9,994', Drilling Report Shows FC At 10,077', 83' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 9,994', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 02-27-2013. Run Repeat Section From 9,994 - 9,794', Log Up Hole. Showed Good Bond From TD To 6,300, 6,300 - 950' Ok With Ratty Spots. TOC 950'. Found Short Joints At 7,590 - 7,612' And 8,829 - 8,861'. Ran With Pressure. Pooh, RD Equipment, MOL.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

**10-18D-36 BTR 3/14/2013 06:00 - 3/15/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	BATTERY UNDER CONSTRUCTION

**10-18D-36 BTR 3/15/2013 06:00 - 3/16/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	SET FRAC LINE. SET FB EQUIP. START FILLING FRAC LINE.

**10-18D-36 BTR 3/16/2013 06:00 - 3/17/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	FILLING FRAC LINE

**10-18D-36 BTR 3/17/2013 06:00 - 3/18/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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 FILLING FRAC LINE

**10-18D-36 BTR 3/18/2013 06:00 - 3/19/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	HSM. CHECK PRESSURE. ND NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, AND FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. INSTALL DEAD MEN WITH BACK HOE.

**10-18D-36 BTR 3/19/2013 06:00 - 3/20/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	PREP FOR FRAC.

**10-18D-36 BTR 3/20/2013 06:00 - 3/21/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Heat Frac Line. Fill And Mix Acid Tanks.

**10-18D-36 BTR 3/21/2013 06:00 - 3/22/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Initial 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. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.
07:00	3.00	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 8,829 - 8,861'. Drop Down To Depth, Perforate Stage 1 CR-4A/CR-4 Zone, 9,664 - 9,937'. 48 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
10:00	0.75	10:45	SRIG	Rig Up/Down	RigDown WireLine, MOL HES Rigging Up
10:45	19.25	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**10-18D-36 BTR 3/22/2013 06:00 - 3/23/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Initial 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 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	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
06:00	0.75	06:45	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16            Open Well, 174 Psi. ICP. BrokeDown At 10.0 Bpm And 3,481 Psi.            Drop 96 Balls In 3900 Gals. Of 15% HCL.            Get Stabilized Injection Of 71.6 Bpm And 4,691 Psi., Get ISIP, 2,947 Psi.. 0.74 Psi./Ft. F.G.. 39/48 Holes.            Con't With SlickWater Pad, 48,335 Gals..            Stage Into Hybor Pad, 69.5 Bpm At 4,473 Psi..            On Perfs, 69.4 Bpm At 4,814 Psi., 12,093 Gals.            Stage Into 2.0# 20/40 White Prop, 69.4 Bpm At 4,883 Psi..            On Perfs, 69.3 Bpm At 4,428 Psi., 10,492 Gals.            Stage Into 3.0# 20/40 White Prop, 69.4 Bpm At 4,386 Psi..            On Perfs, 69.5 Bpm At 3,907 Psi., 15,692 Gals.            Stage Into 3.5# 20/40 White Prop, 69.5 Bpm At 3,804 Psi..            On Perfs, 69.5 Bpm At 3,718 Psi., 11,519 Gals.            Stage Into 4.0# 20/40 White Prop, 69.5 Bpm At 3,717 Psi..            On Perfs, 69.5 Bpm At 3,721 Psi., 11,816 Gals.            Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..            Get ISDP, 3,196 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured.            Total 20/40 White Prop - 150,500#            Total Clean - 134,416 Gals.. 3,200 Bbls..            Produced Water - 70,870 Gals.            2% KCL - 61,612 Gals.            BWTR - 3,293 Bbls.            Max. Rate - 69.6 Bpm            Avg. Rate - 69.4 Bpm            Max. Psi. - 4,896 Psi.            Avg. Psi. - 4,011 Psi.</p>
06:45	0.25	07:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:00	1.25	08:15	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 8,829 - 8,861'.            Drop Down To Depth, Set CBP At 9,658'. 2,650 Psi..            Perforate Stage 2 CR-4/CR-3 Zone, 9,344 - 9,638'. 45 Holes. 350 Psi..            POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
08:15	0.17	08:25	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:25	1.17	09:35	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16            Open Well, 0 Psi. ICP. BrokeDown At 9.6 Bpm And 3,469 Psi.            Drop 90 Balls In 3900 Gals. Of 15% HCL.            Get Stabilized Injection Of 69.8 Bpm And 5,022 Psi., Get ISIP, 2,133 Psi.. 0.67 Psi./Ft. F.G.. 25/45 Holes.            Con't With SlickWater Pad, 51,489 Gals..            Stage Into Hybor Pad, 70.0 Bpm At 4,860 Psi..            On Perfs, 69.9 Bpm At 5,267 Psi., 12,922 Gals.            Stage Into 2.0# 20/40 White Prop, 69.9 Bpm At 5,280 Psi..            On Perfs, 70.0 Bpm At 4,806 Psi., 10,178 Gals.            Stage Into 3.0# 20/40 White Prop, 70.0 Bpm At 4,769 Psi..            On Perfs, 70.0 Bpm At 4,456 Psi., 20,096 Gals.            Stage Into 3.5# 20/40 White Prop, 70.0 Bpm At 4,512 Psi..            On Perfs, 69.8 Bpm At 5,069 Psi., 9,521 Gals.            Cut Sand In 3.5#. Sharp Increase In Net.            Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..            Get ISDP, 3,401 Psi.. 0.80 Psi./Ft. F.G.. WSI And Secured.            Total 20/40 White Prop - 109,600#. 69% Of Design.            Total Clean - 128,899 Gals.. 3,069 Bbls..            Produced Water - 74,216 Gals.            2% KCL - 52,717 Gals.            BWTR - 3,160 Bbls.            Max. Rate - 71.4 Bpm            Avg. Rate - 70.0 Bpm            Max. Psi. - 5,286 Psi.            Avg. Psi. - 4,736 Psi.</p>
09:35	0.17	09:45	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
09:45	1.08	10:50	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 8,829 - 8,861'. Drop Down To Depth, Set CBP At 9,330'. 1,500 Psi.. Perforate Stage 3 CR-3 Zone, 9,056 - 9,310'. 45 Holes. 1,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
10:50	0.17	11:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
11:00	1.17	12:10	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 16 Open Well, 450 Psi. ICP. BrokeDown At 9.8 Bpm And 3,269 Psi. Drop 90 Balls In 3900 Gals. Of 15% HCL. Get Stabilized Injection Of 70.4 Bpm And 4,687 Psi., Get ISIP, 2,509 Psi.. 0.71 Psi./Ft. F.G.. 31/45 Holes. Con't With SlickWater Pad, 48,398 Gals.. Stage Into Hybor Pad, 70.4 Bpm At 4,434 Psi.. On Perfs, 70.3 Bpm At 4,674 Psi., 12,107 Gals. Stage Into 2.0# 20/40 White Prop, 70.2 Bpm At 4,815 Psi.. On Perfs, 70.3 Bpm At 4,319 Psi., 9,925 Gals. Stage Into 3.0# 20/40 White Prop, 70.4 Bpm At 4,240 Psi.. On Perfs, 70.3 Bpm At 3,982 Psi., 17,600 Gals. Stage Into 3.5# 20/40 White Prop, 70.2 Bpm At 4,162 Psi.. On Perfs, 70.1 Bpm At 4,377 Psi., 13,117 Gals. Stage Into 4.0# 20/40 White Prop, 70.2 Bpm At 4,335 Psi.. On Perfs, 70.2 Bpm At 4,223 Psi., 9,515 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,047 Psi.. 0.77 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,100#. Total Clean - 134,132 Gals.. 3,194 Bbls.. Produced Water - 69,924 Gals. 2% KCL - 62,264 Gals. BWTR - 3,326 Bbls. Max. Rate - 70.4 Bpm Avg. Rate - 70.2 Bpm Max. Psi. - 4,843 Psi. Avg. Psi. - 4,273 Psi.
12:10	0.16	12:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
12:20	1.17	13:30	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 8,829 - 8,861'. Drop Down To Depth, Set CBP At 9,047'. 1,500 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 8,709 - 9,027'. 45 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
13:30	0.08	13:35	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	
13:35	1.17	14:45	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,070 Psi. ICP. BrokeDown At 10.0 Bpm And 3,639 Psi. Drop 90 Balls In 3900 Gals. Of 15% HCL. Get Stabilized Injection Of 70.3 Bpm And 4,628 Psi., Get ISIP, 2,764 Psi.. 0.75 Psi./Ft. F.G.. 35/45 Holes. Con't With SlickWater Pad, 48,365 Gals.. Stage Into Hybor Pad, 70.1 Bpm At 4,113 Psi.. On Perfs, 54.6 Bpm At 3,793 Psi., 12,162 Gals. Stage Into 2.0# 20/40 White Prop, 65.9 Bpm At 4,238 Psi.. On Perfs, 70.1 Bpm At 3,976 Psi., 9,613 Gals. Stage Into 3.0# 20/40 White Prop, 70.1 Bpm At 3,964 Psi.. On Perfs, 70.2 Bpm At 3,662 Psi., 18,575 Gals. Stage Into 3.5# 20/40 White Prop, 70.2 Bpm At 3,665 Psi.. On Perfs, 70.2 Bpm At 3,543 Psi., 10,573 Gals. Stage Into 4.0# 20/40 White Prop, 70.2 Bpm At 3,529 Psi.. On Perfs, 70.1 Bpm At 3,540 Psi., 11,570 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,801 Psi.. 0.75 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 154,800#. Total Clean - 133,760 Gals.. 3,185 Bbls.. Produced Water - 69,314 Gals. 2% KCL - 62,493 Gals. BWTR - 3,320 Bbls. Max. Rate - 70.2 Bpm Avg. Rate - 69.8 Bpm Max. Psi. - 4,485 Psi. Avg. Psi. - 3,774 Psi.	
14:45	0.17	14:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.	
14:55	1.16	16:05	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 7,590 - 7,612'. Drop Down To Depth, Set CBP At 8,690'. 2,100 Psi.. Perforate Stage 5 Wasatch/CR-1 Zone, 8,415 - 8,670'. 42 Holes. 1,800 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
16:05	0.25	16:20	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.	
16:20	0.42	16:45	FRAC	Frac. Job	Acidize Stage 5. Open Well, 1,030 Psi. ICP. BrokeDown At 9.5 Bpm And 5,202 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,139 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured. Total Clean - 24,349 Gals.. 580 Bbls.. BWTR - 580 Bbls. Max. Rate - 48.3 Bpm Avg. Rate - 30.9 Bpm Max. Psi. - 7,589 Psi. Avg. Psi. - 4,446 Psi.	
16:45	0.17	16:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.	
16:55	1.08	18:00	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 7,590 - 7,612'. Drop Down To Depth, Set CBP At 8,408'. 1,500 Psi.. Perforate Stage 6 UteLand Butte/Castle Peak Zone, 8,086 - 8,393'. 45 Holes. 1,200 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.	

**10-18D-36 BTR 3/23/2013 06:00 - 3/24/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial Completion
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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 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.	



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.	
06:00	0.00	06:00	FRAC	Frac. Job	Acidize Stage 6. Open Well, 386 Psi. ICP. BrokeDown At 9.2 Bpm And 2,314 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,180 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total Clean - 23,787 Gals.. 566 Bbls.. BWTR - 566 Bbls. Max. Rate - 50.3 Bpm Avg. Rate - 38.5 Bpm Max. Psi. - 6,233 Psi. Avg. Psi. - 3,560 Psi.	
06:00	0.00	06:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.	
06:00	1.00	07:00	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 Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 7,590 - 7,612'. Drop Down To Depth, Set CBP At 8,078'. 1,500 Psi.. Perforate Stage 7 Castle Peak Zone, 7,809 - 8,057'. 45 Holes. 1,200 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
07:00	0.09	07:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.	
07:05	0.25	07:20	FRAC	Frac. Job	Acidize Stage 7. Open Well, 775 Psi. ICP. BrokeDown At 9.3 Bpm And 2,975 Psi.. Pump 15,000 Gals. 15% HCL Drop 120 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,843 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total Clean - 23,633 Gals.. 563 Bbls.. BWTR - 566 Bbls. Max. Rate - 51.1 Bpm Avg. Rate - 40.8 Bpm Max. Psi. - 3,430 Psi. Avg. Psi. - 2,840 Psi.	
07:20	0.42	07:45	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.	
07:45	1.00	08:45	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 02-27-2013 And SLB CBL/CCL Dated 03-07-2013. Found And Correlated To Short Joint At 7,590 - 7,612'. Drop Down To Depth, Set CBP At 7,760'. 1,400 Psi.. Bleed Pressure Off Wwell. POOH. LayDown Tools. WSI And Secured.	
08:45	3.25	12:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.	
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water, Move Tanks Off Location.	

**10-18D-36 BTR 3/24/2013 06:00 - 3/25/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.	
08:00	3.50	11:30	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN HYD CATWALK & PIPE RACKS. LOAD 315 JTS ON RACKS.	
11:30	3.50	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JTS 2-7/8 TBG & XN- NIPPLE. RIH W/ BHA P/U NEW 2-7/8 TBG TO KILL PLUG @ 7760'.	
15:00	2.00	17:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST BOPE & CIRC EQUIPMENT TO 1500 PSI, HELD. D/O KILL PLUG @ 7760', FCP- 0 ON 64/64 CHOKE. SWIVEL IN HOLE, D/O CBP @ 8078'. FCP- 250 ON 64/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL.	
17:00	0.50	17:30	PULT	Pull Tubing	PULL ABOVE PERFS. WELL DEAD. DRAIN UP. SWIFN.	
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL WELL SECURE.	

**10-18D-36 BTR 3/25/2013 06:00 - 3/26/2013 06:00**

API/UWI 43013509150000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 10,175.0	Primary Job Type Initial 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	11.00	18:00	DOPG	Drill Out Plugs	WELL ON SKIGHT VACUUM. RIH F/ TOP OF PERFS W/ BIT. TAG TO CBO @ 8408'. R/U SWIVEL. BREAK CIRC. D/O CBP @ 8408'. FCP- 0.  SWIVEL IN HOLE. D/O CBP @ 8690'. FCP- 1600 ON 24/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 9025'. C/O SAND & D/O CBP @ 9047'. FCP- 700 ON 24/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 9127'. C/O SAND & D/O CBP @ 9330'. FCP- 150 ON 64/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 9413'. C/O SAND & D/O CBP @ 9658'. FCP- 150 ON 64/64 CHOKE. NOTE- VERY HARD DRLLING F/ 9275'- 9310' & 9500' - 9580'.  SWIVEL IN HOLE, TAG SAND @ 9923'. C/O SAND, D/O FLOAT COLLAR @ 10,077'. C/O CMT TO 10,126' PBD. CIRC WELL CLEAN. PUMPED 350 BBLS TOTAL. R/D SWIVEL
18:00	1.50	19:30	PULT	Pull Tubing	POOH L/D TBG TO 7796' & LAND TBG ON HANGER. FCP- 100. TURN WELL OVER TO FLOW BACK.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**10-18D-36 BTR 3/26/2013 06:00 - 3/27/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509150000	Utah	Duchesne	Black Tail Ridge	COMPLETION	10,175.0	Initial Completion

**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	2.00	09:00	IWHD	Install Wellhead	FCP- 100. LAND TBG @ 7796'. 249 JTS TOTAL.R/D FLOOR & EQUIPMENT. N/D BOP. N/U WELLHEAD. DROP BALL DOWN TBG & PUMP BIT OFF. R/U FLOW LINE. TURN WELL OVER TO FLOW BACK.
09:00	1.50	10:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT.
10:30	1.50	12:00	RMOV	Rig Move	ROAD RIG TO 7-13D-46. STAGE RIG OVERNIGHT.
12:00	18.00	06:00	CTRL	Crew Travel	CREW TRAVEL. WELL SECURE.

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: **VENESSA LANGMACHER**  
 E-Mail: **vlangmacher@billbarrettcorp.com**

8. Lease Name and Well No.  
10-18D-36 BTR

3. Address **1099 18TH STREET SUITE 2300 DENVER, CO 80202**

3a. Phone No. (include area code)  
Ph: **303-312-8172**

9. API Well No. **43-013-50915**

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
 At surface **NWSE 2164FSL 2286FEL**  
 At top prod interval reported below **NWSE 1705FSL 1759FEL**  
 At total depth **NWSE 1764FSL 1746FEL**

10. Field and Pool, or Exploratory  
**CEDAR RIM**

11. Sec., T., R., M., or Block and Survey or Area **Sec 18 T3S R6W Mer UBM**

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

14. Date Spudded **02/05/2013** 15. Date T.D. Reached **03/08/2013** 16. Date Completed  D & A  Ready to Prod.  
**04/05/2013**

17. Elevations (DF, KB, RT, GL)\*  
**6199 GL**

18. Total Depth: MD **10175** TVD **10129** 19. Plug Back T.D.: MD **10078** TVD **10032** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
**CBL, TRIPLE COMBO**

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					
12.250	9.625 J-55	36.0	0	3520	3520	840	395	0	
8.750	5.500 P-110	26.0	0	10166	10166	1525	526	1080	

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	8700							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	7809	8670	7809 TO 8670	0.380	135	OPEN
B) WASATCH	8709	9937	8709 TO 9937	0.380	183	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
7809 TO 8670	SEE ATTACHED STAGES 5-7
8709 TO 9937	SEE ATTACHED 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
04/05/2013	04/01/2013	24	→	123.0	3.0	219.0	52.0		FLOW FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
64/64	480	720.0	→	123	3	219	24	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. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

**RECEIVED**  
**APR 24 2013**  
DIV OF OIL, GAS & MINING

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
					Meas. Depth
				GREEN RIVER	3828
				MAHOGANY	4984
				TGR3	6242
				DOUGLAS CREEK	7076
				BLACK SHALE	7644
				CASTLE PEAK	7857
				UTELAND BUTTE	8220
				WASATCH	8632

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. First gas sales were on 4/5/13 and first oil sales were on 4/8/13. Conductor cemented with grout. Attached is treatment data and end of well report.

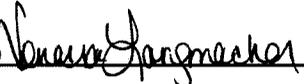
33. Circle enclosed attachments:

- 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 #205308 Verified by the BLM Well Information System.  
 For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) VENESSA LANGMACHER Title SENIOR PERMIT ANALYST

Signature (Electronic Submission)  Date 04/24/2013

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.

10-18D-36 BTR Completion Report Continued\*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>BBS Slurry</u>	<u>gal 15% FE Acid</u>	<u>lbs 20/40 White Sand</u>
1	1341		150,500
2	1065		109,600
3	1356		150,100
4	1365		154,860
5	362	15,199 w/ 120 balls	
6	359	15,068 w/ 120 balls	
7	359	15,062 w/ 120 balls	

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



# HALLIBURTON

## Design Report for 10-18D-36 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
124.00	0.52	233.280	124.00	-0.34	-0.45	-0.10	0.42
<b>First Sperry MWD Survey @ 124.00' MD</b>							
186.00	1.03	254.770	185.99	-0.65	-1.21	-0.45	0.93
279.00	0.45	194.190	278.99	-1.22	-2.11	-0.72	0.97
340.00	0.81	185.770	339.98	-1.89	-2.21	-0.35	0.61
431.00	0.69	187.440	430.97	-3.07	-2.35	0.35	0.13
523.00	0.94	180.370	522.96	-4.37	-2.42	1.18	0.29
614.00	1.29	170.790	613.95	-6.13	-2.27	2.48	0.43
709.00	0.81	171.410	708.93	-7.85	-1.99	3.85	0.51
803.00	0.69	148.350	802.92	-8.99	-1.60	4.91	0.34
897.00	1.01	148.190	896.91	-10.17	-0.86	6.25	0.34
992.00	1.05	144.800	991.90	-11.60	0.08	7.91	0.08
1,086.00	0.87	102.390	1,085.89	-12.45	1.27	9.37	0.76
1,179.00	1.28	101.430	1,178.87	-12.81	2.98	10.87	0.44
1,273.00	0.76	80.590	1,272.85	-12.92	4.62	12.15	0.67
1,367.00	0.74	102.610	1,366.85	-12.95	5.83	13.06	0.31
1,461.00	0.45	78.320	1,460.84	-13.01	6.79	13.80	0.40
1,556.00	0.24	75.090	1,555.84	-12.88	7.34	14.12	0.22
1,650.00	0.34	151.580	1,649.84	-13.07	7.67	14.49	0.39
1,744.00	0.88	148.240	1,743.83	-13.93	8.18	15.45	0.58
1,839.00	1.51	127.810	1,838.81	-15.32	9.55	17.40	0.79
1,933.00	2.99	128.550	1,932.74	-17.61	12.45	21.08	1.57
2,027.00	3.86	136.480	2,026.57	-21.43	16.54	26.68	1.05
2,122.00	5.65	138.330	2,121.24	-27.24	21.86	34.53	1.89
2,216.00	6.41	135.590	2,214.72	-34.45	28.60	44.37	0.86
2,310.00	6.76	131.310	2,308.10	-41.85	36.43	55.14	0.64
2,405.00	6.85	131.970	2,402.43	-49.33	44.84	66.40	0.13
2,499.00	7.01	135.620	2,495.74	-57.18	53.02	77.73	0.50
2,593.00	7.43	134.450	2,589.00	-65.53	61.37	89.53	0.47
2,688.00	7.89	128.250	2,683.15	-73.87	70.88	102.18	0.99
2,782.00	7.87	130.950	2,776.26	-82.08	80.81	115.04	0.39
2,876.00	7.55	132.240	2,869.41	-90.45	90.24	127.65	0.39
2,971.00	7.18	130.210	2,963.63	-98.48	99.39	139.82	0.48
3,065.00	6.93	126.820	3,056.92	-105.67	108.42	151.33	0.52
3,159.00	6.20	127.610	3,150.30	-112.17	116.98	162.03	0.78
3,254.00	6.13	126.920	3,244.75	-118.35	125.10	172.19	0.11
3,348.00	6.58	132.330	3,338.17	-124.99	133.09	182.57	0.80
3,448.00	6.33	140.040	3,437.54	-133.07	140.87	193.77	0.90
3,541.00	5.89	141.640	3,530.01	-140.74	147.12	203.56	0.51
3,635.00	6.74	134.400	3,623.44	-148.38	154.06	213.84	1.24
3,729.00	8.03	130.940	3,716.66	-156.55	162.96	225.92	1.45
3,824.00	8.68	124.590	3,810.66	-164.96	173.87	239.65	1.19
3,918.00	8.77	125.900	3,903.57	-173.19	185.52	253.79	0.23
4,012.00	8.29	127.470	3,996.53	-181.52	196.70	267.66	0.57
4,107.00	8.88	125.220	4,090.46	-189.91	208.13	281.75	0.71
4,201.00	8.46	129.020	4,183.39	-198.45	219.43	295.85	0.76
4,295.00	7.92	128.190	4,276.43	-206.81	229.89	309.20	0.59
4,389.00	7.61	127.540	4,369.57	-214.60	239.91	321.86	0.34
4,483.00	8.25	121.380	4,462.67	-221.91	250.61	334.68	1.13

# HALLIBURTON

## Design Report for 10-18D-36 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,578.00	7.41	126.290	4,556.79	-229.08	261.36	347.45	1.13
4,672.00	8.21	129.510	4,649.91	-236.94	271.43	360.18	0.97
4,766.00	8.06	127.460	4,742.97	-245.22	281.84	373.44	0.35
4,860.00	8.12	124.210	4,836.03	-252.96	292.56	386.57	0.49
4,955.00	7.91	122.110	4,930.11	-260.21	303.64	399.64	0.38
5,049.00	8.12	123.560	5,023.19	-267.31	314.65	412.55	0.31
5,143.00	8.37	125.480	5,116.22	-274.96	325.76	425.90	0.40
5,238.00	8.13	126.980	5,210.23	-283.01	336.75	439.45	0.34
5,332.00	8.00	128.440	5,303.30	-291.07	347.19	452.58	0.26
5,426.00	7.84	125.750	5,396.41	-298.89	357.51	465.47	0.43
5,520.00	7.75	123.990	5,489.54	-306.18	367.97	478.11	0.27
5,614.00	8.06	125.040	5,582.64	-313.50	378.62	490.91	0.36
5,709.00	8.14	127.270	5,676.70	-321.40	389.43	504.20	0.34
5,803.00	7.45	125.440	5,769.83	-328.96	399.69	516.88	0.78
5,897.00	8.34	121.280	5,862.94	-336.04	410.48	529.61	1.12
5,991.00	8.20	120.720	5,955.96	-343.00	422.07	542.85	0.17
6,085.00	7.39	123.930	6,049.09	-349.80	432.85	555.39	0.98
6,180.00	7.62	123.640	6,143.28	-356.70	443.16	567.65	0.25
6,274.00	8.63	124.310	6,236.33	-364.13	454.18	580.79	1.08
6,368.00	7.92	126.060	6,329.35	-371.91	465.24	594.20	0.80
6,462.00	8.00	126.740	6,422.45	-379.64	475.71	607.14	0.13
6,556.00	7.43	129.300	6,515.60	-387.40	485.66	619.71	0.71
6,651.00	6.89	129.640	6,609.86	-394.93	494.80	631.54	0.57
6,745.00	6.04	130.380	6,703.26	-401.73	502.91	642.11	0.91
6,839.00	5.50	131.920	6,796.78	-407.94	510.03	651.56	0.60
6,933.00	5.06	137.330	6,890.38	-414.00	516.19	660.19	0.71
7,028.00	4.52	145.860	6,985.05	-420.18	521.13	668.01	0.94
7,122.00	4.45	151.510	7,078.76	-426.45	524.95	675.07	0.48
7,216.00	3.41	157.260	7,172.54	-432.23	527.77	681.06	1.18
7,311.00	3.58	164.680	7,267.36	-437.70	529.65	686.14	0.51
7,405.00	2.69	182.050	7,361.23	-442.73	530.34	690.06	1.37
7,499.00	2.65	188.910	7,455.12	-447.09	529.93	692.70	0.34
7,594.00	1.62	206.860	7,550.06	-450.45	528.98	694.28	1.28
7,688.00	2.05	203.330	7,644.01	-453.18	527.71	695.20	0.47
7,782.00	2.13	186.120	7,737.95	-456.46	526.86	696.79	0.67
7,877.00	1.42	162.990	7,832.90	-459.34	527.02	698.85	1.05
7,971.00	0.67	173.520	7,926.89	-461.00	527.42	700.27	0.82
8,065.00	0.15	206.040	8,020.88	-461.66	527.43	700.73	0.58
8,160.00	0.56	182.830	8,115.88	-462.24	527.35	701.06	0.45
8,254.00	0.51	172.610	8,209.88	-463.11	527.38	701.67	0.11
8,348.00	0.95	175.730	8,303.87	-464.30	527.49	702.56	0.47
8,442.00	0.84	156.410	8,397.86	-465.71	527.83	703.76	0.34
8,537.00	0.77	167.570	8,492.85	-466.97	528.24	704.92	0.18
8,631.00	1.01	159.070	8,586.84	-468.36	528.68	706.18	0.29
8,725.00	0.69	146.130	8,680.83	-469.61	529.29	707.47	0.39
8,819.00	0.97	144.540	8,774.82	-470.72	530.06	708.80	0.30
8,914.00	0.98	154.190	8,869.80	-472.11	530.88	710.34	0.17
9,008.00	1.04	157.430	8,963.79	-473.62	531.56	711.86	0.09
9,102.00	1.00	162.090	9,057.77	-475.19	532.14	713.35	0.10
9,197.00	1.21	165.410	9,152.76	-476.95	532.65	714.92	0.23
9,291.00	1.37	164.950	9,246.73	-479.00	533.19	716.70	0.17

# HALLIBURTON

## Design Report for 10-18D-36 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9,385.00	1.44	162.810	9,340.70	-481.21	533.83	718.67	0.09
9,480.00	1.77	165.700	9,435.67	-483.77	534.55	720.93	0.36
9,574.00	1.98	167.730	9,529.62	-486.76	535.25	723.48	0.23
9,668.00	2.62	169.490	9,623.54	-490.46	535.99	726.52	0.68
9,762.00	3.11	171.100	9,717.42	-495.10	536.77	730.24	0.53
9,856.00	3.72	171.670	9,811.26	-500.63	537.61	734.60	0.65
9,951.00	3.98	172.750	9,906.04	-506.95	538.47	739.51	0.28
10,045.00	4.12	170.370	9,999.81	-513.52	539.45	744.67	0.23
10,119.00	4.17	171.910	10,073.61	-518.80	540.27	748.86	0.16
<b>Last Sperry MWD Survey @ 10119.00' MD</b>							
10,175.00	4.17	171.910	10,129.46	-522.83	540.85	752.01	0.00
<b>Straight Line Projection to TD @ 10175.00' MD</b>							

### Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
124.00	124.00	-0.34	-0.45	First Sperry MWD Survey @ 124.00' MD
10,119.00	10,073.61	-518.80	540.27	Last Sperry MWD Survey @ 10119.00' MD
10,175.00	10,129.46	-522.83	540.85	Straight Line Projection to TD @ 10175.00' MD

### Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/-S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	10-18D-36 BTR_BHL TGT	132.601	Slot	0.00	0.00	0.00

### Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
124.00	10,175.00	Sperry MWD Surveys	MWD

### Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
10-18D-36 BTR_SHL	0.00	0.00	0.00	0.00	0.00	687,850.41	2,250,197.98	40° 13' 6.229 N	110° 36' 14.519 W
- hit/miss target									
- Shape									
- actual wellpath hits target center									
- Point									
10-18D-36 BTR_ZONE	0.00	0.00	7,363.00	-473.57	514.99	687,382.05	2,250,717.66	40° 13' 1.549 N	110° 36' 7.880 W
- actual wellpath misses target center by 34.34ft at 7408.27ft MD (7364.49 TVD, -442.89 N, 530.34 E)									
- Rectangle (sides W200.00 H200.00 D2,720.00)									
10-18D-36 BTR_BHL	0.00	0.00	10,083.00	-473.57	514.99	687,382.05	2,250,717.66	40° 13' 1.549 N	110° 36' 7.880 W
- actual wellpath misses target center by 52.66ft at 10119.00ft MD (10073.61 TVD, -518.80 N, 540.27 E)									
- Point									

# HALLIBURTON

## North Reference Sheet for Sec. 18-T3S-R6W - 10-18D-36 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 RKB 24' @ 6223.00ft (H&P 319). Northing and Easting are relative to 10-18D-36 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: 0.99992117

Grid Coordinates of Well: 687,850.41 ft N, 2,250,197.98 ft E  
 Geographical Coordinates of Well: 40° 13' 06.23" N, 110° 36' 14.52" W  
 Grid Convergence at Surface is: 0.57°

Based upon Minimum Curvature type calculations, at a Measured Depth of 10,175.00ft  
 the Bottom Hole Displacement is 752.24ft in the Direction of 134.03° (True).

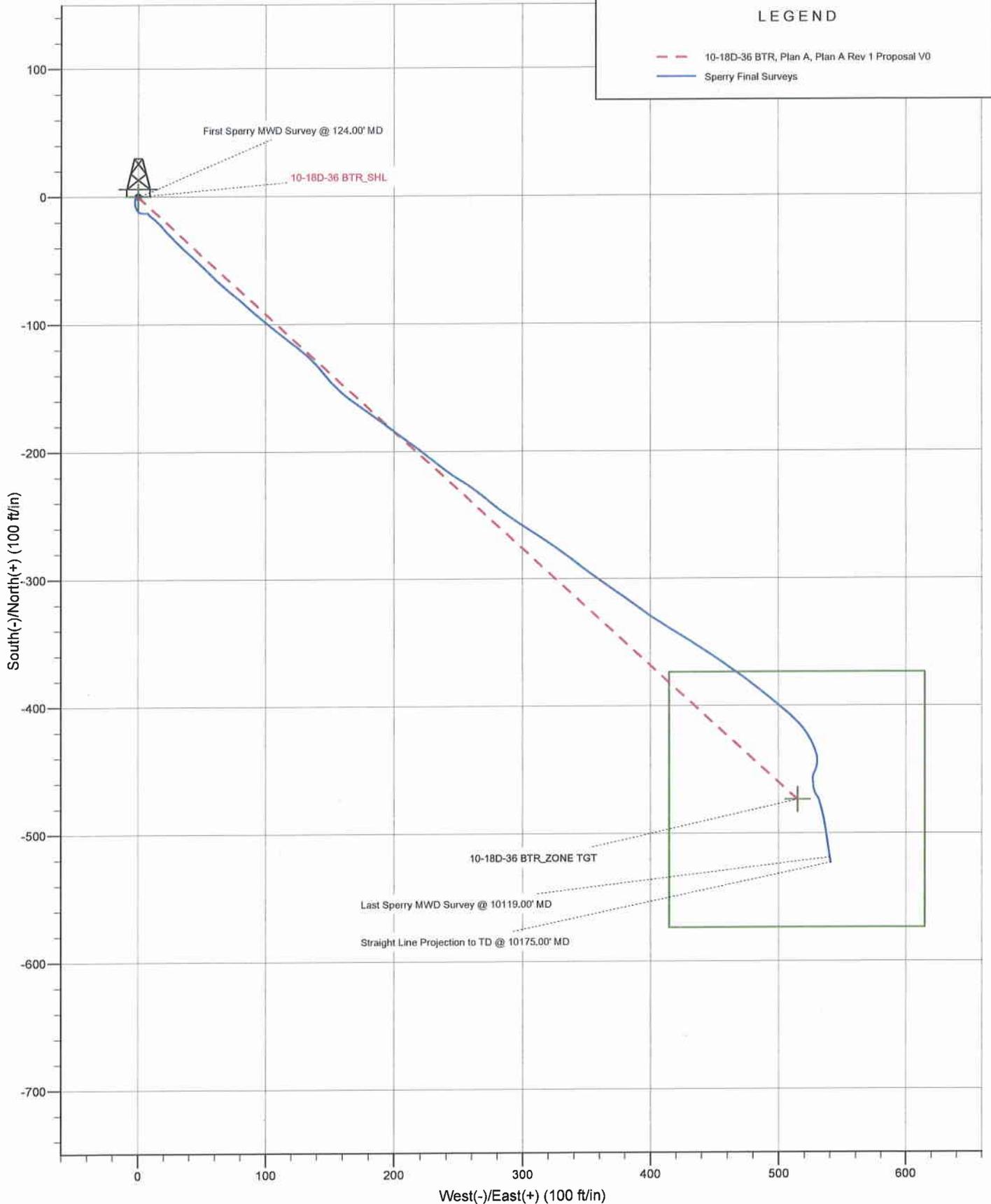
Magnetic Convergence at surface is: -10.81° (11 February 2013, , BGGM2012)



Magnetic Model:	BGGM2012
Date:	11-Feb-13
Declination:	11.38°
Inclination/Dip:	65.76°
Field Strength:	52047

Grid North is 0.57° East of True North (Grid Convergence)  
 Magnetic North is 11.38° East of True North (Magnetic Declination)  
 Magnetic North is 10.81° East of Grid North (Magnetic Convergence)

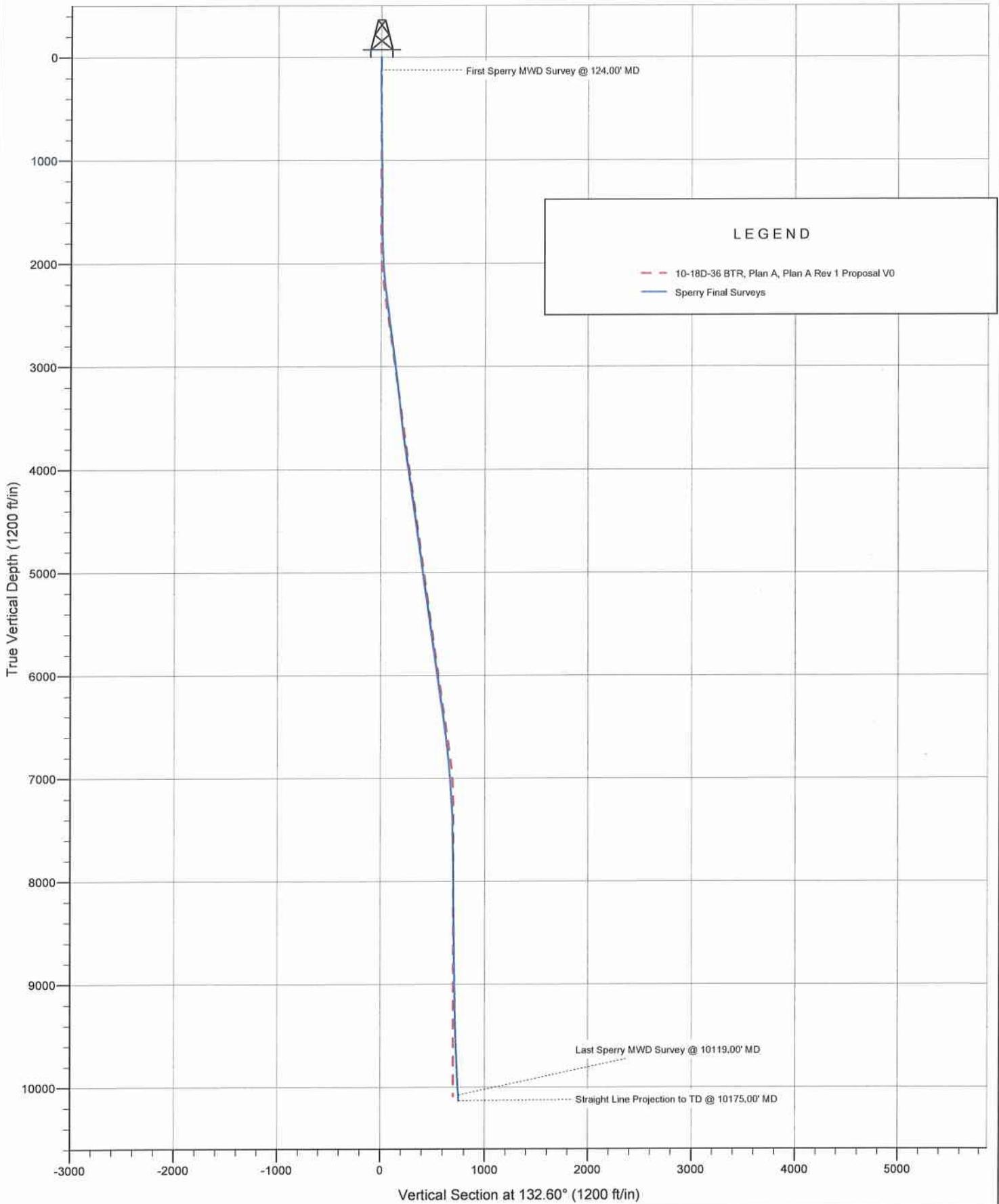
To convert a True Direction to a Grid Direction, Subtract 0.57°  
 To convert a Magnetic Direction to a True Direction, Add 11.38° East  
 To convert a Magnetic Direction to a Grid Direction, Add 10.81°



Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 18-T3S-R6W  
Well: 10-18D-36 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>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626512																														
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>																														
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<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR																														
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013509150000																														
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM																														
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE																														
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>5/24/2013</b>  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input checked="" type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text" value="Earned Lease"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Earned Lease"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.																																
The tribal lease has been earned for this well. The new lease number is <b>1420H626512.</b>																																
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 19, 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> 6/18/2013																														

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

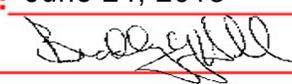
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/21/2013</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="EcoSeal"/>

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

Bill Barrett Corporation (BBC) is requesting an expedited approval of the use of EcoSeal (dehydrated densified saw dust) in a pit closure. EcoSeal will be used to absorb moisture and stabilize pit contents. The mixed material will be capped with a minimum of two feet of native soil upon completion.

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

Date: June 24, 2013

By: 

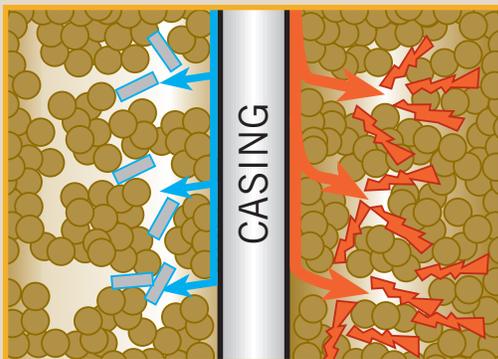
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/21/2013	

# A Premium Lost Circulation Solution



## Why EcoSeal™ LCM?

- Low cost
- Very effective
- Resistant to bacteriological attack
- Rapidly deployable
- Performs at high temperature applications (350°+ F)
- Available in bulk, 1 ton SuperSacks or easy-to-handle 40 lb bags
- 100% organic
- 40 lbs per cubic foot makes for easy storage
- Can improve gel strength
- Bulk delivery and onsite silo storage systems available
- Reduces onsite storage space by 75%



Typical LCM provides only shallow matting and bridging.

**EcoSeal™ LCM**  
Flows deeper into the formation then expands creating superior downhole effectiveness and downhole strength.

## Description:

EcoSeal™ LCM is a small, pellet-based wood product specifically designed and engineered for drilling applications. Its purpose is to prevent fluid loss into porous formations in most water, light salt and some oil based drilling applications. The product is readily dispersible into most applications. Once down hole the product expands in formation, reducing the risk of dislodging due to change in differential pressure making the product dramatically more effective than other low cost LCMs. The densified product withstands substantially higher down-hole pressures significantly better than other cellulosic materials.

## Application:

EcoSeal™ effectively controls fluid loss in most mud applications, including most fresh water, light salt and some oil based applications. Designed to replace and will significantly outperform other fibrous material such as rice hulls, sawdust, cottonseed hulls and etc. EcoSeal™ is compatible with a very broad range of other additives in most mud applications. It's very effective in highly permeable formations. The product has been proven to provide significant bore hole sweeping properties.

## Recommended application:

Typical dosage range is between 15 to 40 lb per cubic yard depending on the degree of filtration and control required. EcoSeal™ should be mixed and agitated at a dispersment rate of 12 lb per minute or can be premixed in hopper application for faster, more immediate large volume introduction.

## Packaging:

Bulk delivery to site 15 - 25 ton  
1 ton SuperSacks  
40 lb plastic bags

**Call 1-970-724-9839**  
**To Order or for More Information**

confluence energy

## EcoSeal™ LCM, by Confluence Energy, LLC

P.O. Box 1387 • 1809 Highway 9  
Kremmling, Colorado 80459  
Phone 1-970-724-9839 • Fax 1-970-724-9905  
[Mark@ConfluenceEnergy.com](mailto:Mark@ConfluenceEnergy.com)

MATERIAL SAFETY DATA SHEET

MANUFACTURER'S NAME: Confluence Energy, LLC TELEPHONE NO: 970-724-9839  
PO Box 1387  
1809 Hwy 9  
Kremmling, CO 80459

DATE OF PREPARATION: 1/20/11 NO Change 1/20/11

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SECTION 1 - PRODUCT IDENTIFICATION

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PRODUCT NUMBER:  
PRODUCT NAME: Eco-Seal  
PRODUCT CLASS: Industrial grade

---

SECTION 2 - HAZARDOUS INGREDIENTS

---

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	PERCENT	ACGIH	ACGIH	OSHA
	(% Wt)	<u>TLV-TWA</u>	<u>STEL</u>	<u>PEL</u>
dehydrated densified saw dust	100%	5 mg/cu.m	10 mg/cu.m	5 mg/cu.m

---

SECTION 3 - PHYSICAL DATA

---

APPEARANCE AND ODOR:

Light yellow to buff-colored pellet. Odor is dependent on the wood source and the amount of aging.

MOLECULAR WEIGHT: Not Applicable

BOILING POINT (DEGREES FAHRENHEIT): Not Applicable

MELTING POINT (DEGREES FAHRENHEIT): Not Applicable

VAPOR PRESSURE (mm of MERCURY): Not applicable

SPECIFIC GRAVITY (water=1): <1

PERCENT VOLATILE (by weight): Not Applicable

pH: Not Applicable

SOLUBILITY IN WATER: Insoluble

---

SECTION 4 - FIRE AND EXPLOSION HAZARD DATA

---

FLAMMABILITY CLASSIFICATION: LEL and UEL varies by wood

EXTINGUISHING MEDIA: Water Spray

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Wood pellets do not present an explosion hazard. Excessive wood dust created by handling the wood pellets may present an explosion if a dust cloud contacts an ignition source. Wood pellets or wood dust may also smolder for extended periods of time before ignition takes place.

---

SECTION 5 - HEALTH HAZARD DATA

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EFFECTS OF OVEREXPOSURE:

Exposure to wood pellets should not present a health hazard. Excessive wood dust from handling Eco-Seal may produce allergenic responses in a few sensitive individuals. Overexposure of wood dust may cause skin/ eye and upper respiratory tract irritation along with allergenic responses and asthma.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

If an allergy/ such as dermatitis, asthma, or bronchitis develops/ it may be necessary to remove a sensitive worker from further exposure to wood dust.

EMERGENCY AND FIRST AID PROCEDURES (wood dust only):

INHALATION: Remove to fresh air. If persistent irritation, severe coughing/ breathing difficulties, or rash occur, get medical advice before returning to work with wood dust.

EYE CONTACT: Plush with water to remove dust particles from the eye. If irritation persists, get medical attention.

SKIN CONTACT: If a rash, or persistent irritation or dermatitis occur, get medical advice before returning to work where wood dust is present.

---

SECTION 6 - SPECIAL PROTECTION INFORMATION

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RESPIRATORY PROTECTION:

No protection required handling pellets unless there is excessive dust associated. Use approved dust respirator.

PROTECTIVE GLOVES:

Recommended to reduce skin contact.

OTHER PROTECTIVE EQUIPMENT:

No special clothing required unless excessive dust is associated with handling. Use clean body-covering work clothing.

VENTILATION:

Whenever possible/ local exhaust ventilation should be used to meet TLV requirements.

HYGIENIC PRACTICES:

Follow good hygienic practices.

---

SECTION 7 - REACTIVITY DATA

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STABILITY:                    ( ) UNSTABLE                    (\*) STABLE

HAZARDOUS POLYMERIZATION:                    ( ) MAY OCCUR                    (\*) WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal-oxidative degradation of wood produces irritating and toxic fumes and gases, including CO, aldehydes and organic acids.

CONDITIONS TO AVOID:

Wood pellets and dust are combustible. Keep in a cool, dry place away from ignition sources.

Wood pellets will return to saw dust when exposed to moisture and will not burn efficiently.

---

SECTION 8 - SPILL OR LEAK PROCEDURES

---

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Sweep up or vacuum up spills for recovery or disposal. A dust respirator may be required during clean up.

WASTE DISPOSAL:

Dispose in a sanitary landfill or incinerate.

Substance is biodegradable.

---

SECTION 9 - SAFE HANDLING AND STORAGE INFORMATION

---

Follow good housekeeping practices; cleanup areas where pellet dust settles to avoid excessive accumulation of this material.

Avoid hot, humid storage or contact with drying oils.

Partially burned or scorched wood pellets can be hazardous to store.

IMPORTANT: The information and data herein is believed to be accurate and has been compiled from sources believed to be reliable. It is offered for consideration/ investigation and verification. NO WARRANTY OF ANY KIND/ EXPRESS OR IMPLIED IS MADE CONCERNING THE ACCURACY OR COMPLETENESS OF THE INFORMATION AND DATA HEREIN. Source will not be liable for claims relating to any party's use of or reliance on information and data contained herein regardless of whether it is claimed that the information and data are inaccurate/ incomplete or otherwise misleading.

<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> 1420H626512
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 10-18D-36 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509150000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2164 FSL 2286 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSE Section: 18 Township: 03.0S Range: 06.0W Meridian: U	<b>9. FIELD and POOL or WILDCAT:</b> CEDAR RIM  <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: <b>5/31/2017</b>	<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 checked="" 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.

Well was shut in on 6/1/15 due to low production & to low commodity prices. On 5/31/16 the well will be shut in for 1 year. Current economics do not justify returning the well to production. For this reason BBC is requesting an additional 1 year shut in, before a MIT is required, until 5/31/17. Well currently has 0 psi tubing, 1358 psi casing, 0 psi Braden Head. With minimal to zero Braden Head pressure & 1358 psi casing pressure, it is evident that the 5-1/2" production casing has full integrity & all formations are protected. Fluid level was found at 8000ft from surface with TOC at 1100ft. Well is shut in at the wellhead & all surface equipment has been drained/winterized. Well is still on an active lease operator route & is checked frequently for any surface & potential downhole issues. Well would be RTP if economics are justified at higher commodity price before 5/31/17.

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

Date: May 04, 2016

By: *Dark Duff*

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/7/2016	

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

Effective 11/1/2016

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

From: Bill Barrett Corporation

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

From: Bill Barrett Corporation

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

From: Bill Barrett Corporation

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.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: (see attached well list)
2. NAME OF OPERATOR: RIG II, LLC <u>N14055</u>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087		7. UNIT or CA AGREEMENT NAME:
PHONE NUMBER: (801) 683-4245		8. WELL NAME and NUMBER: (see attached well list)
4. LOCATION OF WELL		9. API NUMBER:
FOOTAGES AT SURFACE: (see attached well list) COUNTY:		10. FIELD AND POOL, OR WILDCAT:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: 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: <u>11/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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 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

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

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

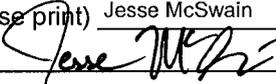
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<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

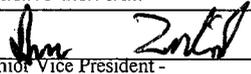
TRANSFER OF AUTHORITY TO INJECT

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

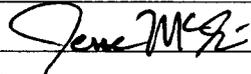
CURRENT OPERATOR

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

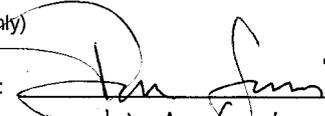
Name: Duane Zavadil  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

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: VIC Geologist

Approval Date: 11/3/16

Comments:

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

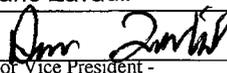
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

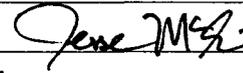
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

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

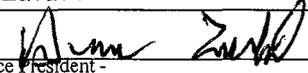
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

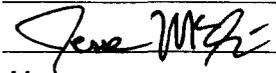
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well  Footage : 0539 FSL 0704 FEL  County : DUCHESNE	Field or Unit Name CEDAR RIM
	Lease Designation and Number 2OG0005608
QQ, Section, Township, Range: SESE 9 3S 6W	State : UTAH

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.