

**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> 5-2D-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> ALTAMONT
<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> Little Red Creek Cattle Company
<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 801-380-1055		<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 332, Tabiona, UT 84072
<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	2373 FNL 542 FWL	SWNW	2	3.0 S	6.0 W	U
Top of Uppermost Producing Zone	2373 FNL 1241 FWL	SWNW	2	3.0 S	6.0 W	U
At Total Depth	2364 FNL 1242 FWL	SWNW	2	3.0 S	6.0 W	U

<b>21. COUNTY</b> DUCHESNE	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1242	<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> 2123	<b>26. PROPOSED DEPTH</b> MD: 11792 TVD: 11734	
<b>27. ELEVATION - GROUND LEVEL</b> 6223	<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	12.25	9.625	0 - 4200	45.5	J-55 ST&C	8.8	Halliburton Light , Type Unknown	660	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
PROD	8.75	5.5	0 - 11792	17.0	P-110 LT&C	9.7	Unknown	720	2.31	11.0
							Unknown	1000	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> 08/02/2011	<b>EMAIL</b> vlangmacher@billbarrettcorp.com
<b>API NUMBER ASSIGNED</b> 43013509130000	<b>APPROVAL</b>   Permit Manager	

**DRILLING PLAN**

BILL BARRETT CORPORATION

**5-2D-36 BTR Well Pad**

SW NW, 2373' FNL and 542' FWL, Section 2, T3S-R6W, USB&M (surface hole)  
 SW NW, 2364' FNL and 1242' FWL, Section 2, 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**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>	<b><u>Depth – TVD</u></b>
Lower Green River*	7,269'	7,224'
Douglas Creek	8,071'	8,014'
Black Shale	8,572'	8,514'
Castle Peak	8,807'	8,749'
Uteland Butte	9,172'	9,114'
Wasatch*	9,597'	9,539'
TD	11,792'	11,734'

\*PROSPECTIVE PAY

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

Base of Useable Water = 1,750'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 4,200'	No pressure control required
4,200' – 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**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	4,200'	9 5/8"	36#	J or K 55	BT&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New
<b>NOTE: In addition, 8 3/4" hole size may change to 7 7/8" at the point the bit is changed out.</b>							

Bill Barrett Corporation  
 Drilling Program  
 #5-2D-36 BTR  
 Duchesne County, Utah

**5. Cementing Program**

<b>Casing</b>	<b>Cementing</b>
16" Conductor Casing	<i>Grout</i>
9 5/8" Surface Casing	<p><i>Lead</i> with approximately 660 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. Top of lead estimated at surface.</p> <p><i>Tail</i> with approximately 210 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. Top of tail estimated at 3,700'.</p>
5 1/2" Production Casing	<p><i>Lead</i> with approximately 720 sx Tuned Light cement with additives, mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx,) . Top of lead estimated at 3,700'.</p> <p><i>Tail</i> with approximately 1000 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Top of tail estimated at 8,072'.</p>

**6. Mud Program**

<b>Interval</b>	<b>Weight</b>	<b>Viscosity</b>	<b>Fluid Loss (API filtrate)</b>	<b>Remarks</b>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 4,200'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
4,200' – TD	8.6 – 9.7	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.

Bill Barrett Corporation  
Drilling Program  
#5-2D-36 BTR  
Duchesne County, Utah

**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5919 psi\* and maximum anticipated surface pressure equals approximately 3337 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:**

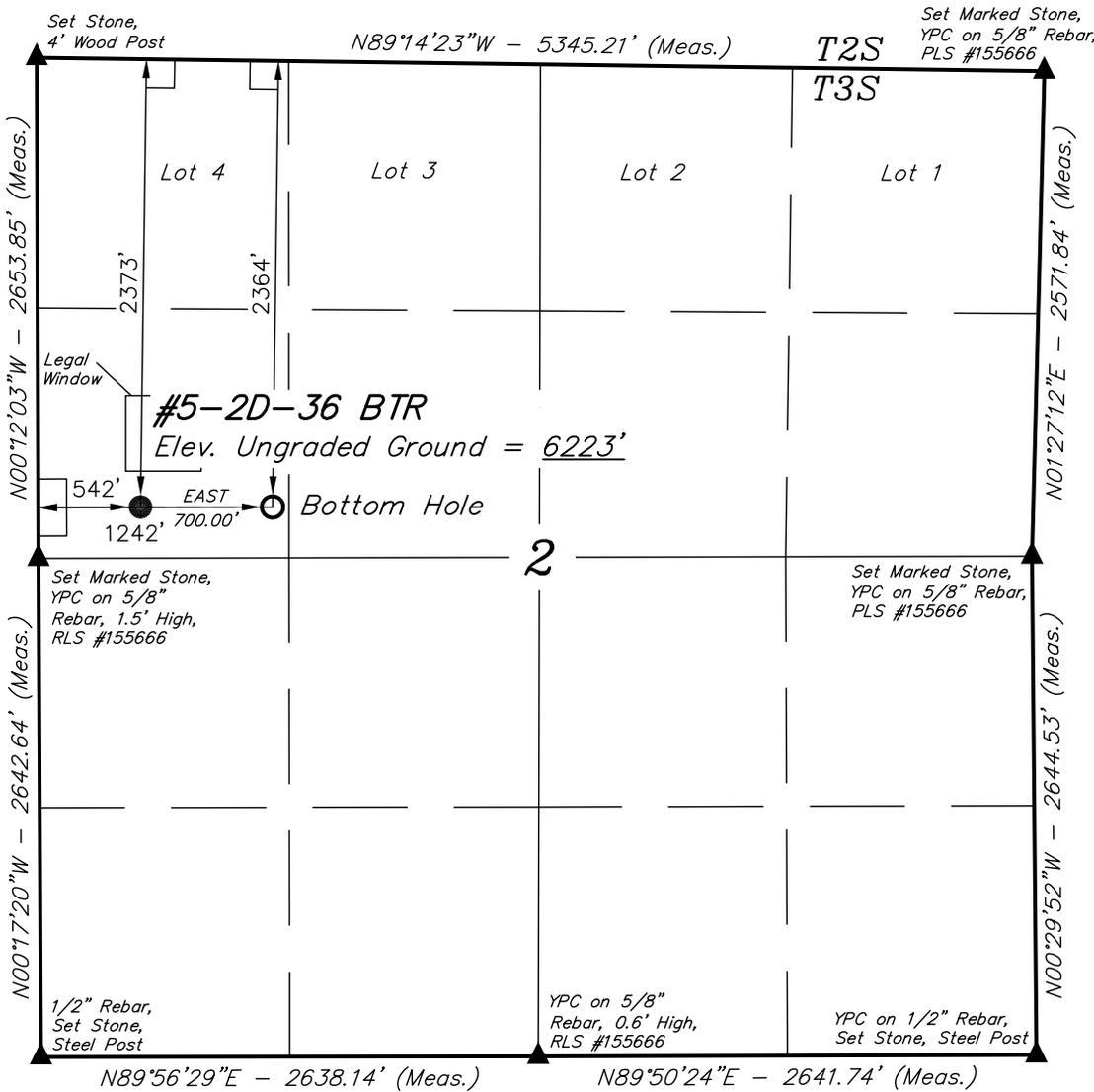
The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but 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.

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

## BILL BARRETT CORPORATION

Well location, #5-2D-36 BTR, located as shown in the SW 1/4 NW 1/4 of Section 2, T3S, R6W, U.S.B.&M., Duchesne County, Utah.

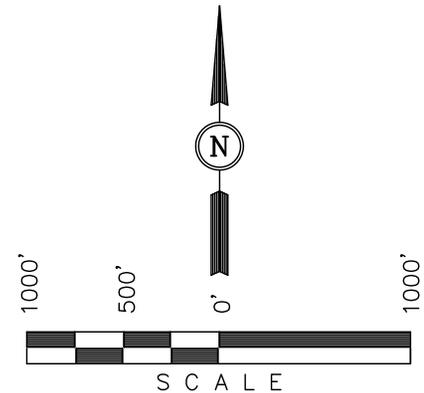


### BASIS OF ELEVATION

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.



### CERTIFICATE

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

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

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

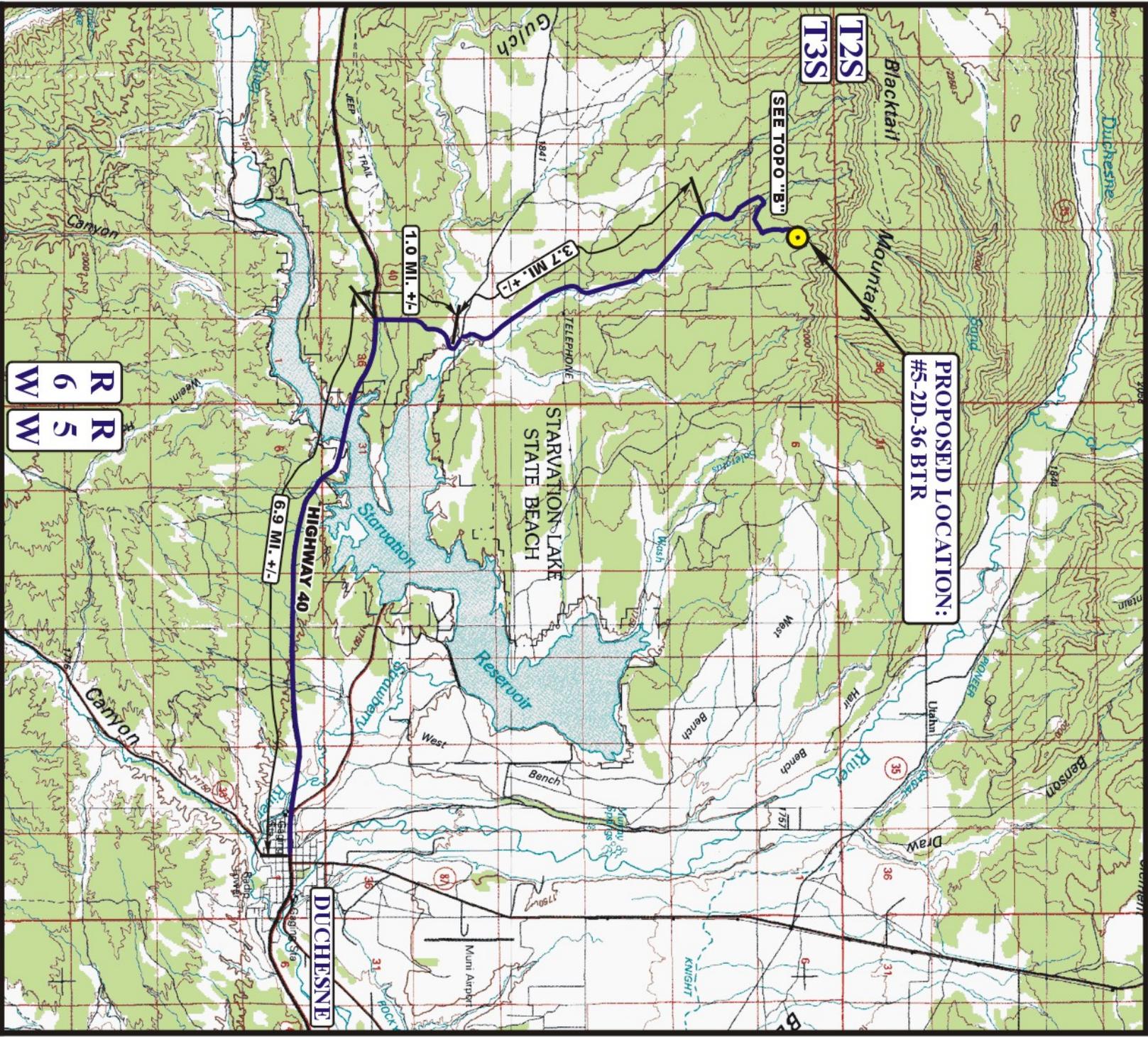
### LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°14'58.46" (40.249572)	LATITUDE = 40°14'58.46" (40.249572)
LONGITUDE = 110°32'07.53" (110.535425)	LONGITUDE = 110°32'16.55" (110.537931)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°14'58.62" (40.249617)	LATITUDE = 40°14'58.62" (40.249617)
LONGITUDE = 110°32'04.96" (110.534711)	LONGITUDE = 110°32'13.98" (110.537217)

SCALE 1" = 1000'	DATE SURVEYED: 09-29-10	DATE DRAWN: 11-19-10
PARTY A.F. J.C. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE BILL BARRETT CORPORATION	

**RECEIVED: August 02, 2011**



**PROPOSED LOCATION:  
#5-2D-36 BTR**

**T2S  
T3S**

SEE TOPO "B"

**R 6  
W**      **R 5  
W**

**LEGEND:**

**● PROPOSED LOCATION**

**BILL BARRETT CORPORATION**

**#5-2D-36 BTR**  
**SECTION 2, T3S, R6W, U.S.B.&M.**  
**2373' FNL 542' FWL**



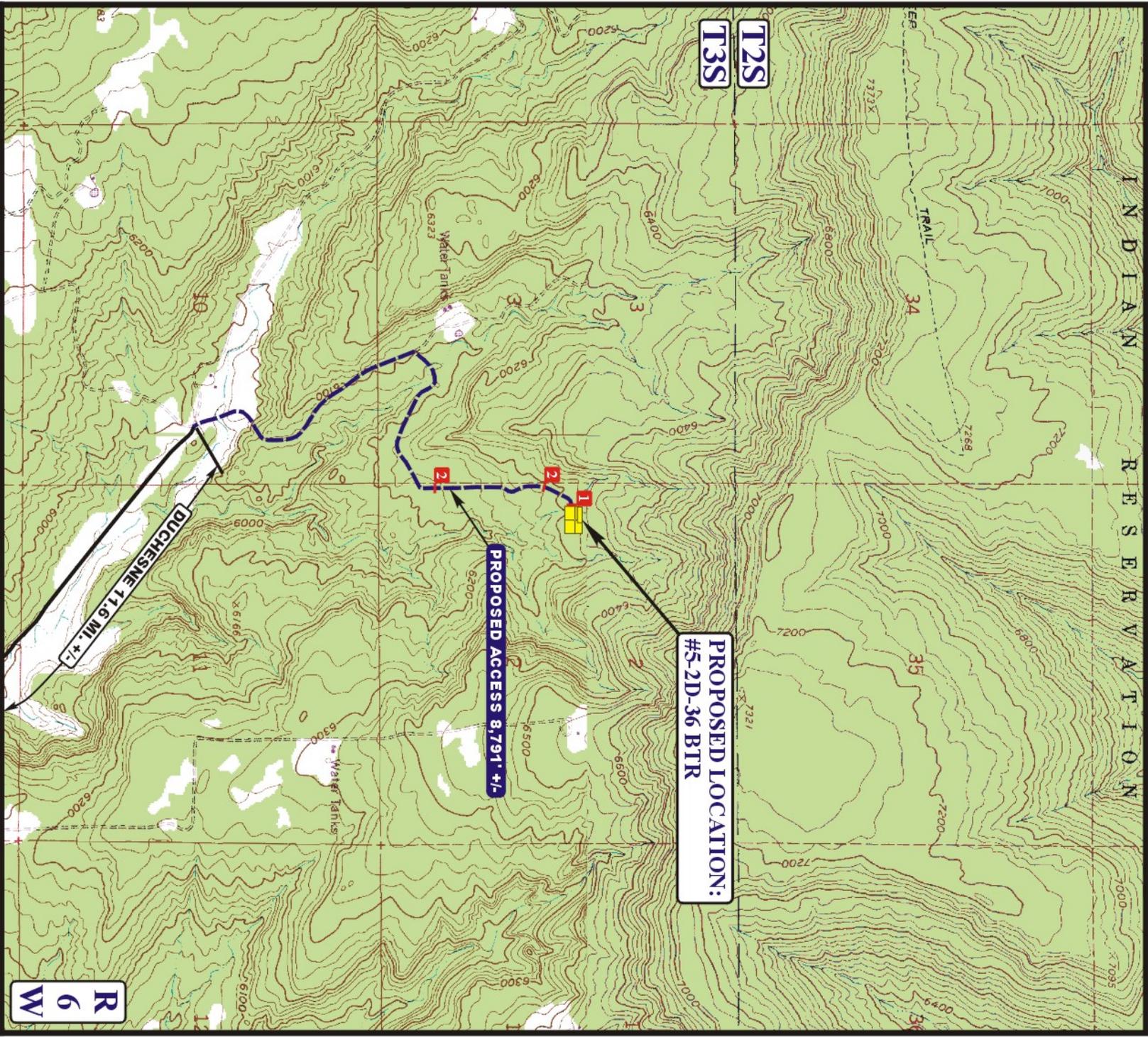
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC MAP**

SCALE: 1:100,000	DRAWN BY: JJ	REVISIED: 00-00-00
MONTH: 10	DAY: 22	YEAR: 10

**TOPO**



**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  30" CMP REQUIRED
-  24" CMP REQUIRED



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**BILL BARRETT CORPORATION**

#5-2D-36 BTR  
 SECTION 2, T3S, R6W, U.S.B.&M.  
 2373' FNL 542' FWL

**TOPOGRAPHIC MAP**  
 SCALE: 1" = 2000'  
 DRAWN BY: J.J.  
 REVISIONS: 04-04-11

MONTH	10
DAY	22
YEAR	10

**TOPO**

**R 6 W**

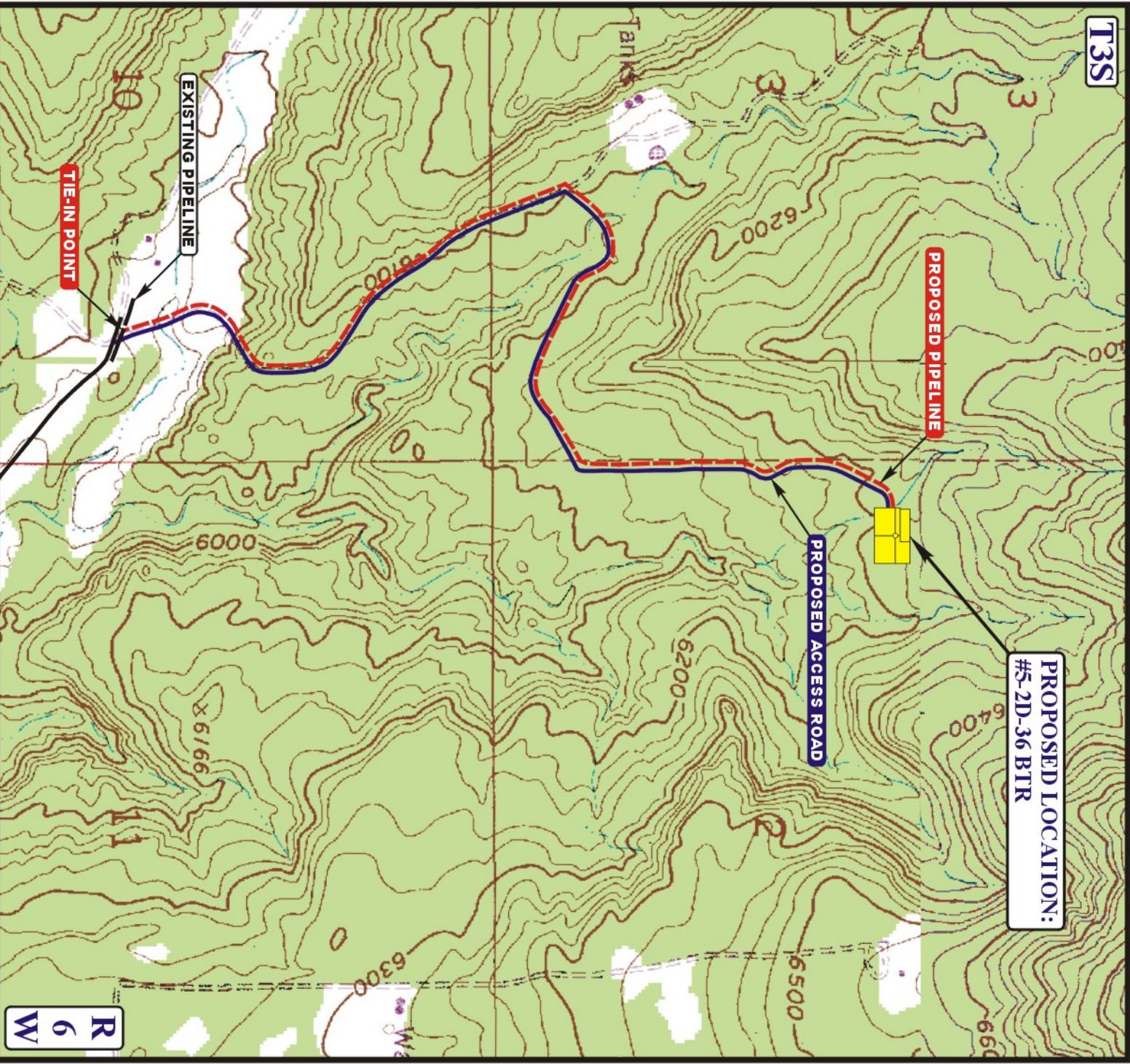
**PROPOSED LOCATION:  
#5-2D-36 BTR**

**PROPOSED ACCESS 8,791' +/-**

**DUCHESSNE 11.6 MI. +/-**

**T2S  
T3S**

INDIAN RESERVATION



APPROXIMATE TOTAL PIPELINE DISTANCE = 8,760' +/-

**LEGEND:**

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

**BILL BARRETT CORPORATION**

#5-2D-36 BTR  
 SECTION 2, T3S, R6W, U.S.B.&M.  
 2373' FNL 542' FWL



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**TOPOGRAPHIC MAP**  
 10 22 10  
 MONTH DAY YEAR  
 SCALE: 1" = 1000'  
 DRAWN BY: JJ  
 REVISED: 04-04-11



**Plan Report for 5-2D-36 BTR - Plan A Rev 0 Proposal**

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)	Toolface Azimuth (°)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.000	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.000	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.000	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.000	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.000	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.000	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.000	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.000	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.000	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.000	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.000	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.000	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.000	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.000	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.000	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.000	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.000	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.000	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.000	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.000	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.000	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.000	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,962.57	0.00	0.000	3,962.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Kickoff at 3962.57ft</b>										
4,000.00	0.75	90.000	4,000.00	0.00	0.24	0.24	2.00	2.00	0.00	90.00
4,100.00	2.75	90.000	4,099.95	0.00	3.30	3.30	2.00	2.00	0.00	0.00
4,200.00	4.75	90.000	4,199.73	0.00	9.83	9.83	2.00	2.00	0.00	0.00
<b>Build Rate = 2.00°/100ft</b>										
4,300.00	6.75	90.000	4,299.22	0.00	19.85	19.85	2.00	2.00	0.00	0.00
4,400.00	8.75	90.000	4,398.30	0.00	33.33	33.33	2.00	2.00	0.00	0.00
4,462.57	10.00	90.000	4,460.04	0.00	43.52	43.52	2.00	2.00	0.00	0.00
<b>End Build at 4462.57ft</b>										
4,500.00	10.00	90.000	4,496.90	0.00	50.02	50.02	0.00	0.00	0.00	0.00
4,600.00	10.00	90.000	4,595.38	0.00	67.39	67.39	0.00	0.00	0.00	0.00
4,700.00	10.00	90.000	4,693.86	0.00	84.75	84.75	0.00	0.00	0.00	0.00
4,800.00	10.00	90.000	4,792.34	0.00	102.12	102.12	0.00	0.00	0.00	0.00
4,900.00	10.00	90.000	4,890.82	0.00	119.48	119.48	0.00	0.00	0.00	0.00
4,974.31	10.00	90.000	4,964.00	0.00	132.38	132.38	0.00	0.00	0.00	0.00
<b>Green River</b>										
5,000.00	10.00	90.000	4,989.30	0.00	136.85	136.85	0.00	0.00	0.00	0.00

**Plan Report for 5-2D-36 BTR - Plan A Rev 0 Proposal**

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)	Tooface Azimuth (°)
5,100.00	10.00	90.000	5,087.78	0.00	154.21	154.21	0.00	0.00	0.00	0.00
5,200.00	10.00	90.000	5,186.26	0.00	171.58	171.58	0.00	0.00	0.00	0.00
5,300.00	10.00	90.000	5,284.74	0.00	188.94	188.94	0.00	0.00	0.00	0.00
5,400.00	10.00	90.000	5,383.22	0.00	206.30	206.30	0.00	0.00	0.00	0.00
5,500.00	10.00	90.000	5,481.70	0.00	223.67	223.67	0.00	0.00	0.00	0.00
5,600.00	10.00	90.000	5,580.19	0.00	241.03	241.03	0.00	0.00	0.00	0.00
5,700.00	10.00	90.000	5,678.67	0.00	258.40	258.40	0.00	0.00	0.00	0.00
5,796.80	10.00	90.000	5,774.00	0.00	275.21	275.21	0.00	0.00	0.00	0.00
<b>Mahogany</b>										
5,800.00	10.00	90.000	5,777.15	0.00	275.76	275.76	0.00	0.00	0.00	0.00
5,900.00	10.00	90.000	5,875.63	0.00	293.13	293.13	0.00	0.00	0.00	0.00
6,000.00	10.00	90.000	5,974.11	0.00	310.49	310.49	0.00	0.00	0.00	0.00
<b>10.00 Inclination</b>										
6,100.00	10.00	90.000	6,072.59	0.00	327.86	327.86	0.00	0.00	0.00	0.00
6,200.00	10.00	90.000	6,171.07	0.00	345.22	345.22	0.00	0.00	0.00	0.00
6,300.00	10.00	90.000	6,269.55	0.00	362.59	362.59	0.00	0.00	0.00	0.00
6,400.00	10.00	90.000	6,368.03	0.00	379.95	379.95	0.00	0.00	0.00	0.00
6,500.00	10.00	90.000	6,466.51	0.00	397.32	397.32	0.00	0.00	0.00	0.00
6,600.00	10.00	90.000	6,564.99	0.00	414.68	414.68	0.00	0.00	0.00	0.00
6,700.00	10.00	90.000	6,663.47	0.00	432.05	432.05	0.00	0.00	0.00	0.00
6,800.00	10.00	90.000	6,761.95	0.00	449.41	449.41	0.00	0.00	0.00	0.00
6,900.00	10.00	90.000	6,860.44	0.00	466.78	466.78	0.00	0.00	0.00	0.00
7,000.00	10.00	90.000	6,958.92	0.00	484.14	484.14	0.00	0.00	0.00	0.00
7,100.00	10.00	90.000	7,057.40	0.00	501.51	501.51	0.00	0.00	0.00	0.00
7,200.00	10.00	90.000	7,155.88	0.00	518.87	518.87	0.00	0.00	0.00	0.00
7,269.17	10.00	90.000	7,224.00	0.00	530.88	530.88	0.00	0.00	0.00	0.00
<b>TGR3</b>										
7,300.00	10.00	90.000	7,254.36	0.00	536.24	536.24	0.00	0.00	0.00	0.00
7,400.00	10.00	90.000	7,352.84	0.00	553.60	553.60	0.00	0.00	0.00	0.00
7,500.00	10.00	90.000	7,451.32	0.00	570.97	570.97	0.00	0.00	0.00	0.00
7,600.00	10.00	90.000	7,549.80	0.00	588.33	588.33	0.00	0.00	0.00	0.00
7,700.00	10.00	90.000	7,648.28	0.00	605.70	605.70	0.00	0.00	0.00	0.00
7,800.00	10.00	90.000	7,746.76	0.00	623.06	623.06	0.00	0.00	0.00	0.00
7,900.00	10.00	90.000	7,845.24	0.01	640.43	640.43	0.00	0.00	0.00	0.00
7,905.55	10.00	90.000	7,850.71	0.01	641.39	641.39	0.00	0.00	0.00	0.00
<b>Begin Drop at 7905.55ft</b>										
8,000.00	8.58	90.000	7,943.92	0.01	656.64	656.64	1.50	-1.50	0.00	180.00
8,070.78	7.52	90.000	8,014.00	0.01	666.55	666.55	1.50	-1.50	0.00	180.00
<b>Douglas Creek</b>										
8,100.00	7.08	90.000	8,042.98	0.01	670.27	670.27	1.50	-1.50	0.00	180.00
8,200.00	5.58	90.000	8,142.37	0.01	681.30	681.30	1.50	-1.50	0.00	180.00
8,240.00	4.98	90.000	8,182.20	0.01	684.98	684.98	1.50	-1.50	0.00	180.00
<b>Drop Rate = 1.50°/100ft</b>										
8,300.00	4.08	90.000	8,242.01	0.01	689.72	689.72	1.50	-1.50	0.00	180.00
8,400.00	2.58	90.000	8,341.84	0.01	695.54	695.54	1.50	-1.50	0.00	180.00
8,432.19	2.10	90.000	8,374.00	0.01	696.85	696.85	1.50	-1.50	0.00	180.00
<b>3Point Marker</b>										
8,500.00	1.08	90.000	8,441.78	0.01	698.74	698.74	1.50	-1.50	0.00	180.00
8,572.22	0.00	0.000	8,514.00	0.01	699.42	699.42	1.50	-1.50	0.00	-180.00
<b>End Drop at 8572.22ft - Black Shale - 5-2D-36 BTR Plan A Rev 0 Zone Tgt</b>										
8,600.00	0.00	0.000	8,541.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
8,700.00	0.00	0.000	8,641.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
8,800.00	0.00	0.000	8,741.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
8,807.22	0.00	0.000	8,749.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>Castle Peak</b>										
8,900.00	0.00	0.000	8,841.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,000.00	0.00	0.000	8,941.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,100.00	0.00	0.000	9,041.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00

**Plan Report for 5-2D-36 BTR - Plan A Rev 0 Proposal**

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)	Tooface Azimuth (°)
9,172.22	0.00	0.000	9,114.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>Uteland Butte</b>										
9,200.00	0.00	0.000	9,141.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,272.22	0.00	0.000	9,214.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR1</b>										
9,300.00	0.00	0.000	9,241.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,400.00	0.00	0.000	9,341.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,500.00	0.00	0.000	9,441.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,597.22	0.00	0.000	9,539.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>Wasatch</b>										
9,600.00	0.00	0.000	9,541.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,700.00	0.00	0.000	9,641.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,800.00	0.00	0.000	9,741.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
9,852.22	0.00	0.000	9,794.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR2</b>										
9,900.00	0.00	0.000	9,841.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,000.00	0.00	0.000	9,941.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,100.00	0.00	0.000	10,041.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,200.00	0.00	0.000	10,141.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,222.22	0.00	0.000	10,164.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR3</b>										
10,300.00	0.00	0.000	10,241.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,400.00	0.00	0.000	10,341.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,500.00	0.00	0.000	10,441.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,557.22	0.00	0.000	10,499.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR4</b>										
10,600.00	0.00	0.000	10,541.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,700.00	0.00	0.000	10,641.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,800.00	0.00	0.000	10,741.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
10,872.22	0.00	0.000	10,814.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR4A</b>										
10,900.00	0.00	0.000	10,841.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,000.00	0.00	0.000	10,941.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,022.22	0.00	0.000	10,964.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR5</b>										
11,100.00	0.00	0.000	11,041.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,192.22	0.00	0.000	11,134.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR6</b>										
11,200.00	0.00	0.000	11,141.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,300.00	0.00	0.000	11,241.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,400.00	0.00	0.000	11,341.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,500.00	0.00	0.000	11,441.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,542.22	0.00	0.000	11,484.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>CR7</b>										
11,600.00	0.00	0.000	11,541.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,700.00	0.00	0.000	11,641.78	0.01	699.42	699.42	0.00	0.00	0.00	0.00
11,792.22	0.00	0.000	11,734.00	0.01	699.42	699.42	0.00	0.00	0.00	0.00
<b>Total Depth = 11792.22ft - 5-2D-36 BTR Plan A Rev 0 BH Tgt</b>										

**Plan Report for 5-2D-36 BTR - Plan A Rev 0 Proposal****Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,962.57	3,962.57	0.00	0.00	Kickoff at 3962.57ft
4,200.00	4,199.73	0.00	9.83	Build Rate = 2.00°/100ft
4,462.57	4,460.04	0.00	43.52	End Build at 4462.57ft
6,000.00	5,974.11	0.00	310.49	10.00 Inclination
7,905.55	7,850.71	0.01	641.39	Begin Drop at 7905.55ft
8,240.00	8,182.20	0.01	684.98	Drop Rate = 1.50°/100ft
8,572.22	8,514.00	0.01	699.42	End Drop at 8572.22ft
11,792.22	11,734.00	0.01	699.42	Total Depth = 11792.22ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
Target	5-2D-36 BTR Plan A Rev 0 BH Tgt	90.000	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	11,792.22	Plan A Rev 0 Proposal	MWD

**Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,974.31	4,964.00	Green River		0.00	
5,796.80	5,774.00	Mahogany		0.00	
7,269.17	7,224.00	TGR3		0.00	
8,070.78	8,014.00	Douglas Creek		0.00	
8,432.19	8,374.00	3Point Marker		0.00	
8,572.22	8,514.00	Black Shale		0.00	
8,807.22	8,749.00	Castle Peak		0.00	
9,172.22	9,114.00	Uteland Butte		0.00	
9,272.22	9,214.00	CR1		0.00	
9,597.22	9,539.00	Wasatch		0.00	
9,852.22	9,794.00	CR2		0.00	
10,222.22	10,164.00	CR3		0.00	
10,557.22	10,499.00	CR4		0.00	
10,872.22	10,814.00	CR4A		0.00	
11,022.22	10,964.00	CR5		0.00	
11,192.22	11,134.00	CR6		0.00	
11,542.22	11,484.00	CR7		0.00	

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**Plan Report for 5-2D-36 BTR - Plan A Rev 0 Proposal**

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*Targets associated with this wellbore*

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
5-2D-36 BTR Plan A Rev 0 BH Tgt	11,734.00	0.01	699.42	Point
5-2D-36 BTR Plan A Rev 0 Zone Tgt	8,514.00	0.01	699.42	Circle

**North Reference Sheet for Sec. 2-T3S-R6W - 5-2D-36 BTR - Plan A Rev 0**

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

Vertical Depths are relative to RKB 16' @ 6235.00ft (Patterson 506). Northing and Easting are relative to 5-2D-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 -111.50°, 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: 0.99992496

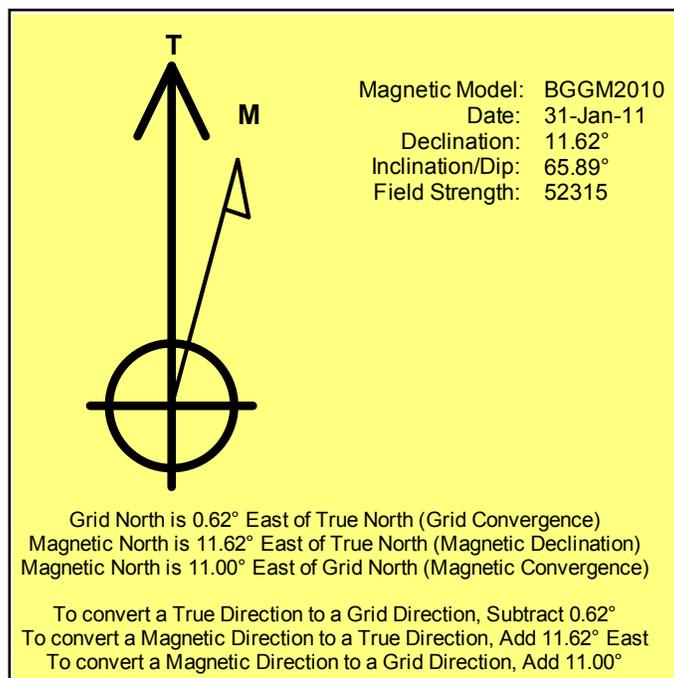
Grid Coordinates of Well: 699,415.91 ft N, 2,268,733.28 ft E

Geographical Coordinates of Well: 40° 14' 58.62" N, 110° 32' 13.98" W

Grid Convergence at Surface is: 0.62°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,792.22ft  
the Bottom Hole Displacement is 699.42ft in the Direction of 90.00° (True).

Magnetic Convergence at surface is: -11.00° (31 January 2011, , BGGM2010)



Project: Duchesne County, UT (NAD 1927)

Site: Sec. 2-T3S-R6W

Well: 5-2D-36 BTR

Wellbore: Plan A Rev 0

Plan: Plan A Rev 0 Proposal

# Bill Barrett Corp



### SECTION DETAILS

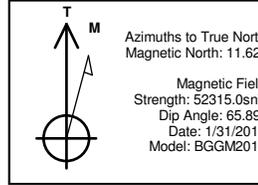
Sec	MD	Inc	Azi	TVD	+N-/S	+E-/W	DLeg	TFace	VSec	
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	3962.57	0.00	0.000	3962.57	0.00	0.00	0.00	0.00	0.00	
3	4462.57	10.00	90.000	4460.04	0.00	43.52	2.00	90.00	43.52	
4	7905.55	10.00	90.000	7850.71	0.01	641.39	0.00	0.00	641.39	5-2D-36 BTR Plan A Rev 0 Zone Tgt
5	8572.22	0.00	0.000	8514.00	0.01	699.42	1.50	180.00	699.42	5-2D-36 BTR Plan A Rev 0 BH Tgt
6	11792.22	0.00	0.000	11734.00	0.01	699.42	0.00	0.00	699.42	

### WELL DETAILS: 5-2D-36 BTR

Ground Level:	6219.00	Latitude	40° 14' 58.620 N	Longitude	110° 32' 13.980 W
Northing	699415.91	Easting	2268733.28		

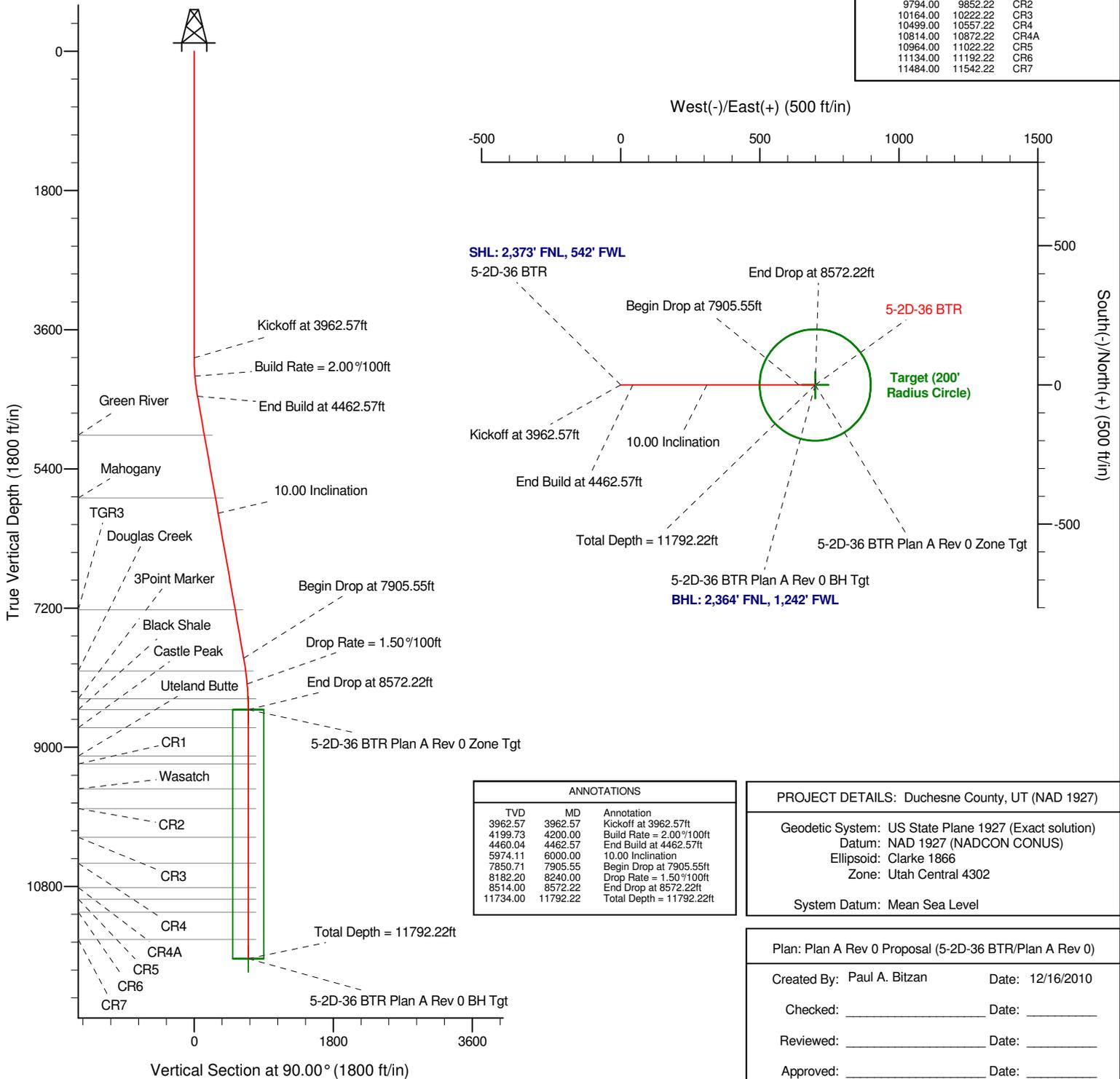
### WELLBORE TARGET DETAILS

Name	TVD	+N-/S	+E-/W	Shape
5-2D-36 BTR Plan A Rev 0 Zone Tgt	8514.00	0.01	699.42	Circle (Radius: 200.00)
5-2D-36 BTR Plan A Rev 0 BH Tgt	11734.00	0.01	699.42	



### FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4964.00	4974.31	Green River
5774.00	5796.80	Mahogany
7224.00	7269.17	TGR3
8014.00	8070.78	Douglas Creek
8374.00	8432.19	3Point Marker
8514.00	8572.22	Black Shale
8749.00	8807.22	Castle Peak
9114.00	9172.22	Uteland Butte
9214.00	9272.22	CR1
9539.00	9597.22	Wasatch
9794.00	9852.22	CR2
10164.00	10222.22	CR3
10499.00	10557.22	CR4
10814.00	10872.22	CR4A
10964.00	11022.22	CR5
11134.00	11192.22	CR6
11484.00	11542.22	CR7



ANNOTATIONS		
TVD	MD	Annotation
3962.57	3962.57	Kickoff at 3962.57ft
4199.73	4200.00	Build Rate = 2.00%/100ft
4460.04	4462.57	End Build at 4462.57ft
5974.11	6000.00	10.00 Inclination
7850.71	7905.55	Begin Drop at 7905.55ft
8182.20	8240.00	Drop Rate = 1.50%/100ft
8514.00	8572.22	End Drop at 8572.22ft
11734.00	11792.22	Total Depth = 11792.22ft

### PROJECT DETAILS: Duchesne County, UT (NAD 1927)

Geodetic System: US State Plane 1927 (Exact solution)  
 Datum: NAD 1927 (NADCON CONUS)  
 Ellipsoid: Clarke 1866  
 Zone: Utah Central 4302  
 System Datum: Mean Sea Level

### Plan: Plan A Rev 0 Proposal (5-2D-36 BTR/Plan A Rev 0)

Created By: Paul A. Bitzan Date: 12/16/2010  
 Checked: \_\_\_\_\_ Date: \_\_\_\_\_  
 Reviewed: \_\_\_\_\_ Date: \_\_\_\_\_  
 Approved: \_\_\_\_\_ Date: \_\_\_\_\_

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

This Agreement, made and entered into this the 7th day of December, 2010, by and between Little Red Creek Cattle Company, LLC, PO Box 332, Tabiona, UT 84072 ("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 the All of Section 2, 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 #5-2D-36 BTR well at a legal drill-site location in the SW1/4NW1/4 of Section 2, 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 SW1/4NW1/4 of Section 2, 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 or replace any fences damaged by BBC or its contractors during the term of 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.



**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**5-2D-36 BTR Well Pad**

SW NW, 2373' FNL and 542' FWL, Section 2, T3S-R6W, USB&M (surface hole)  
SW NW, 2364' FNL and 1242' FWL, Section 2, T3S-R6W, USB&M (bottom hole)  
Duchesne County, Utah

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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.

- a) Two 24-inch and one 30-inch culverts to be installed as shown on Topo B;
- b) Divert drainages around well pad as reflected on Figure 1;
- c) Utilize 20 mil liner over felt;
- d) 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 13.3 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 1.0 miles to an existing El Paso maintained access road that would be utilized for 3.7 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.
- 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 permit are required.

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- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 8,791 feet of new access road trending north is planned from the existing El Paso 14 access road across entirely private surface (see Topographic Map B).
- b. The road would be constructed to a 66-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.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.

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- i. Two 24 inch and one 30 inch culverts, and no 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 none
    - iv. drilling wells none
    - v. temp shut-in wells none
    - vi. producing wells one
    - vii. abandoned wells eight
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), 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

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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 8,760 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 trending south to the existing El Paso 14 pipeline corridor. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed 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:

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
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), UTR #00707, Sec. 32, T1S-R1W

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<b>Disposal Facilities</b>
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 everyday.
- 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. BBC would flow back as much fluid and gas as possible into pressurized vessels,

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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 is not proposed at this time but may be applied for in the future.

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 255 feet with an inboard reserve pit size of 70 feet x 235 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.
- 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

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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 stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour.

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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 –
  - Pad area – Little Red Creek Cattle Co. LLC
  - Access and pipeline corridors:
    - Little Red Creek Cattle Co. LLC
    - Roger D. Clark
    - Gregory L. Tuttle
    - Stanley W. Wilhelmsen
    - Gerald Larmar Cox
    - S M Reed MPO
    - Coastal Oil and Gas Corp.
- 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 number 10-224 and 10-224b.
- 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.

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d. Disturbance estimates:

<b>Approximate Acreage Disturbances</b>			
Well Pad		3.151	acres
Access	8,791 feet	13.320	acres
Pipeline	8,760 feet	6.033	acres
	<b>Total</b>	<b>25.504</b>	<b>acres</b>

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OPERATOR CERTIFICATION

Certification:

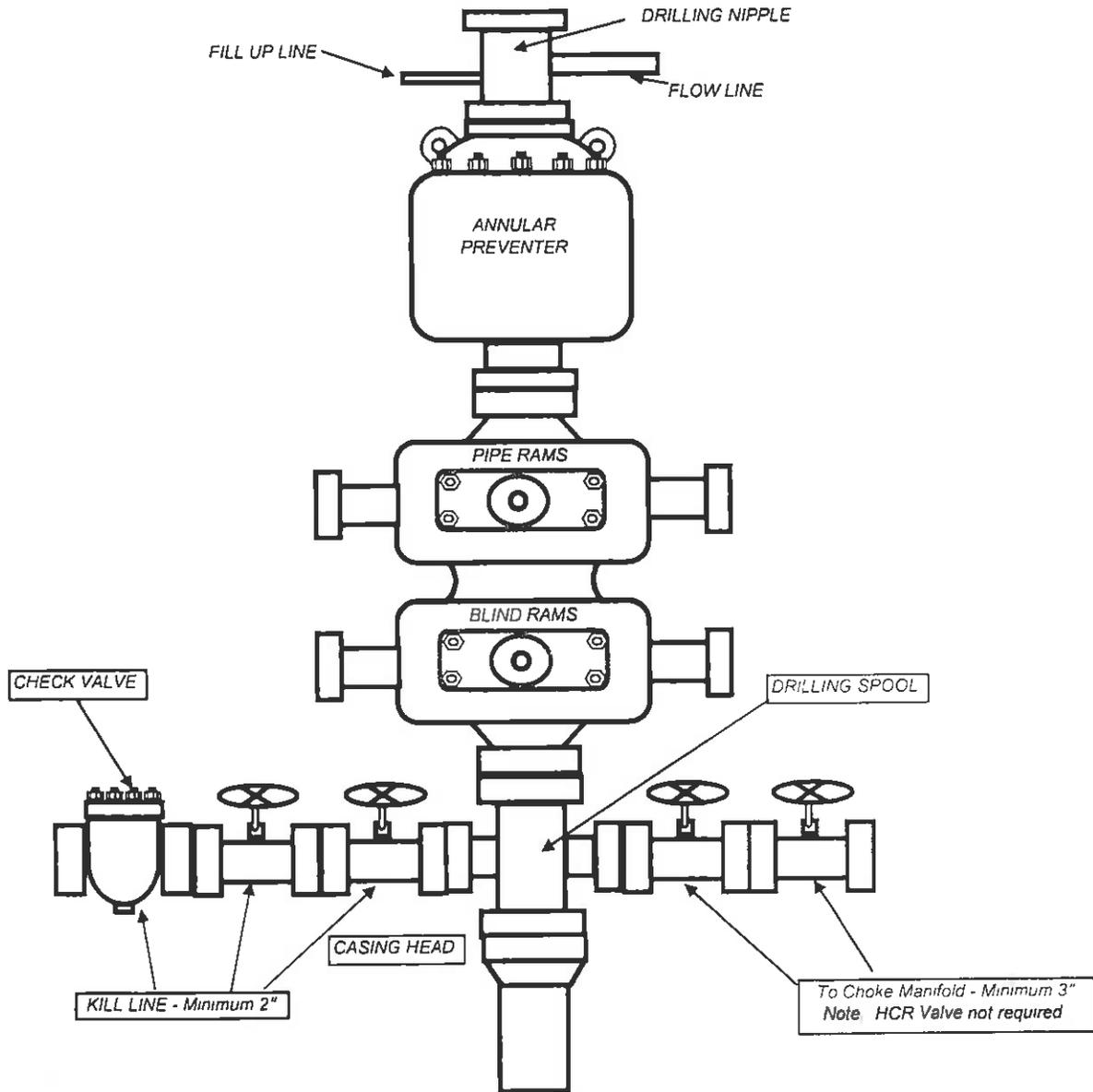
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made 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 2<sup>nd</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







August 2, 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 #5-2D-36 BTR Well**  
Surface: 2,373' FNL & 542' FWL, SWNW, 2-T3S-R6W, USM  
Bottom Hole: 2,364' FNL & 1,242' FWL SWNW, 2-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 small 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



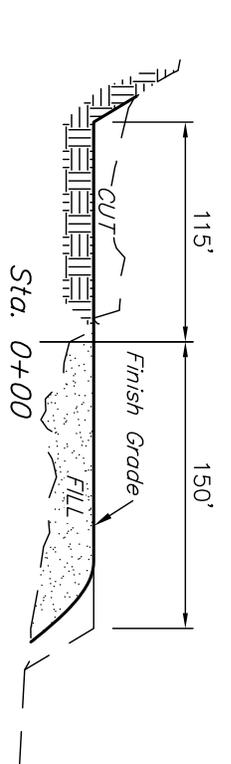
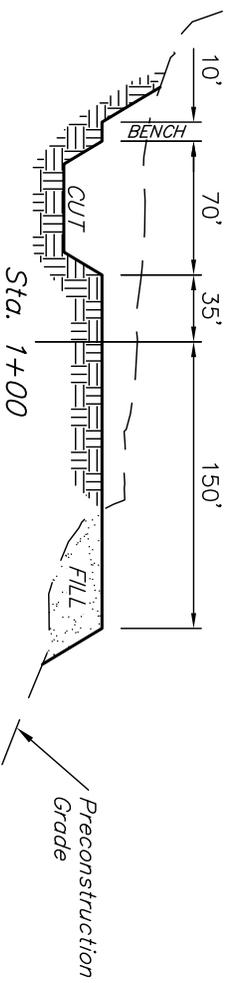
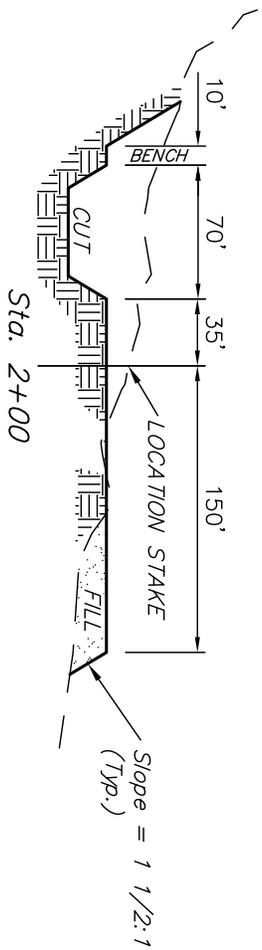
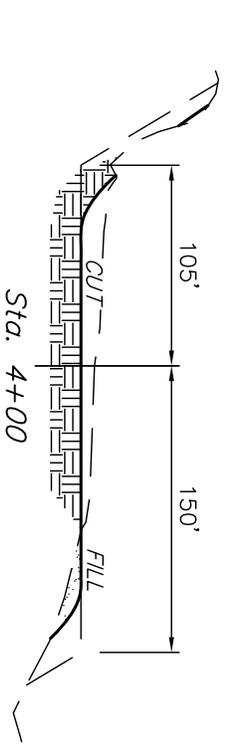
**BILL BARRETT CORPORATION**

TYPICAL CROSS SECTIONS FOR

#5-2D-36 BTR  
 SECTION 2, T3S, R6W, U.S.B.&M.  
 2373' FNL 542' FWL

FIGURE #2

X-Section  
 Scale  
 1" = 100'  
 DATE: 11-22-10  
 DRAWN BY: S.B.  
 REV: 02-28-11  
 REV: 05-24-11



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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 3.151	ACRES
ACCESS ROAD DISTURBANCE = ± 13.320	ACRES
PIPELINE DISTURBANCE = ± 6.167	ACRES
<b>TOTAL = ± 22.638</b>	<b>ACRES</b>

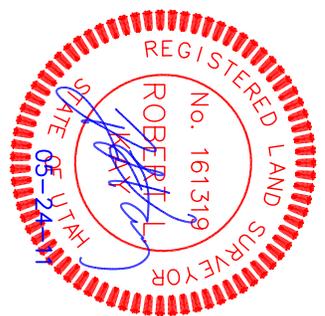
\* NOTE:  
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping	= 4,720 Cu. Yds.
Remaining Location	= 15,270 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 19,990 CU.YDS.</b>
<b>FILL</b>	<b>= 13,350 CU.YDS.</b>

EXCESS MATERIAL	= 6,640 Cu. Yds.
Topsoil & Pit Backfill	= 6,640 Cu. Yds.
(1/2 Pit Vol.)	
EXCESS UNBALANCE	= 0 Cu. Yds.
(After Interim Rehabilitation)	

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





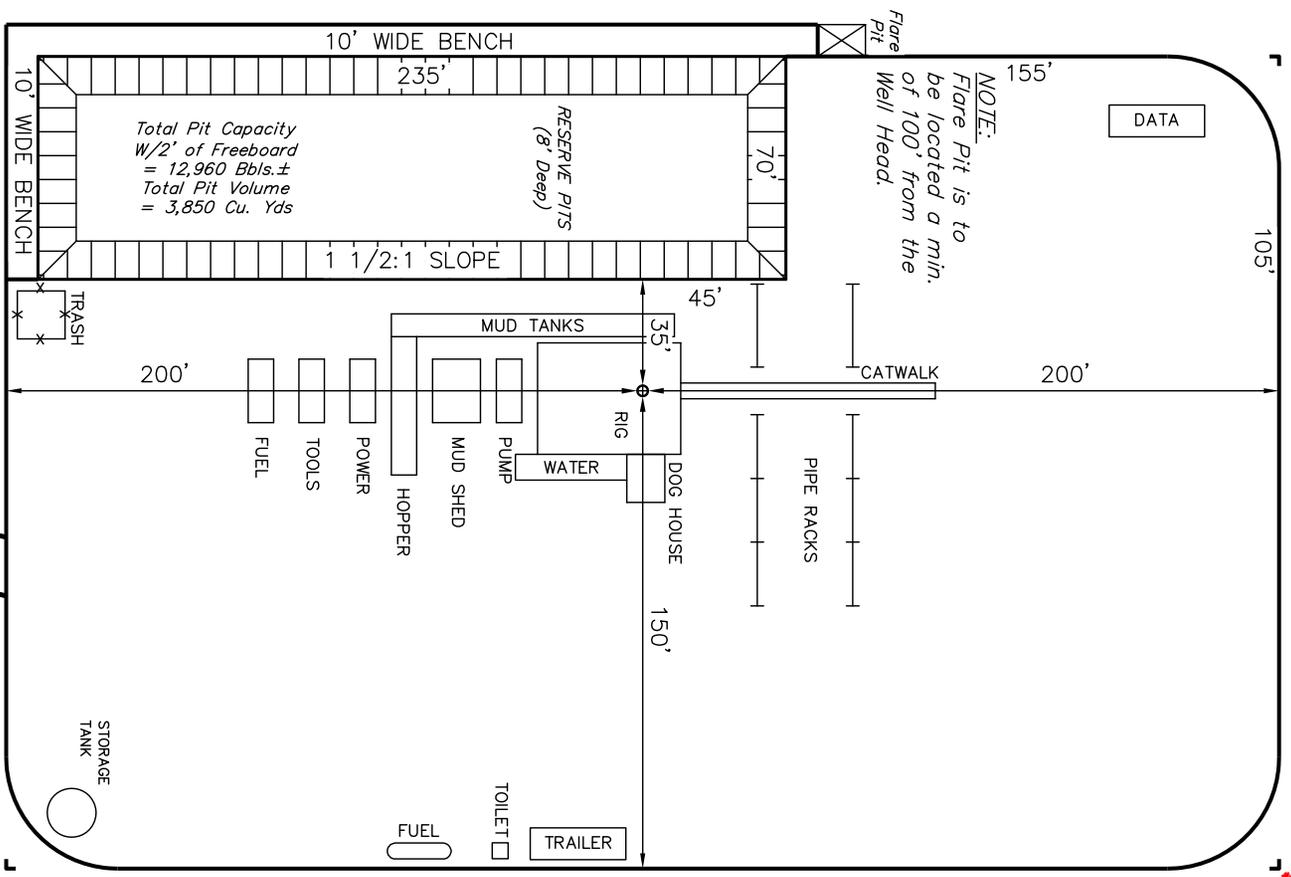
SCALE: 1" = 60'  
 DATE: 11-22-10  
 DRAWN BY: S.B.

**BILL BARRETT CORPORATION**

TYPICAL RIG LAYOUT FOR

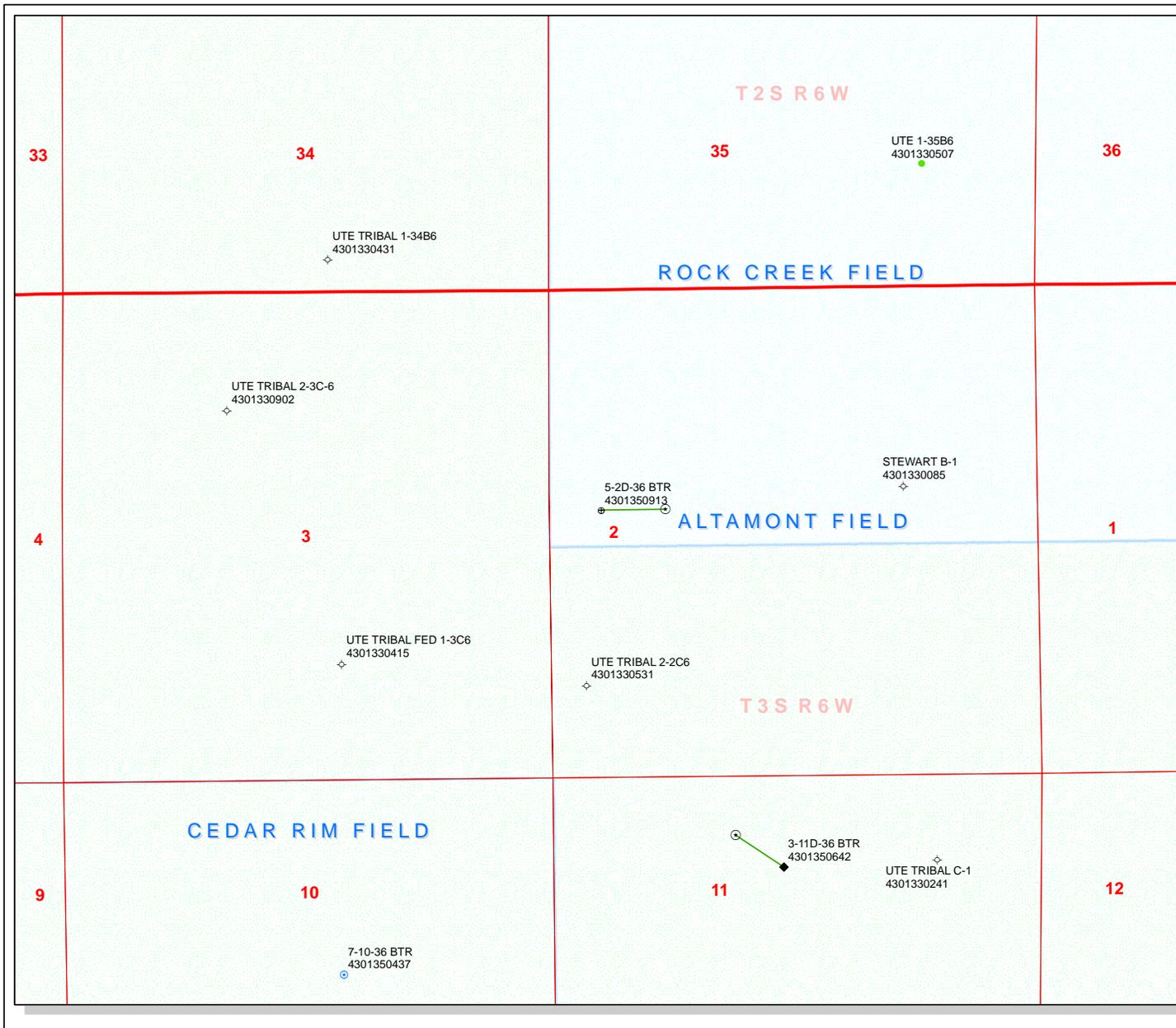
#5-2D-36 BTR  
 SECTION 2, T3S, R6W, U.S.B.&M.  
 2373' FNL 542' FWL

FIGURE #3



Proposed Access Road

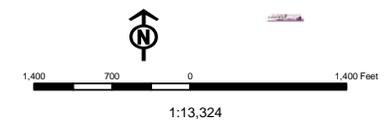
UINTAH ENGINEERING & LAND SURVEYING  
 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



**API Number: 4301350913**  
**Well Name: 5-2D-36 BTR**  
**Township T0.3 . Range R0.6 . Section 02**  
**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             |
| <b>STATUS</b> | SOW - Shut-in Oil Well             |
| Unknown       | TA - Temp. Abandoned               |
| ABANDONED     | TW - Test Well                     |
| ACTIVE        | WDW - Water Disposal               |
| COMBINED      | WIW - Water Injection Well         |
| INACTIVE      | WSW - Water Supply Well            |
| STORAGE       |                                    |
| TERMINATED    |                                    |
| Sections      |                                    |
| Township      |                                    |



# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** 5-2D-36 BTR  
**API Number** 43013509130000      **APD No** 4320      **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** SWNW      **Sec 2 Tw 3.0S Rng 6.0W 2373 FNL 542 FWL**  
**GPS Coord (UTM)** 539357 4455357      **Surface Owner** Little Red Creek Cattle Company

### Participants

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

### Regional/Local Setting & Topography

This location sits at the south edge of Black Tail Mountain on a southern slope between two ridges extending off the south side of the mountain. This area is rugged with exposed rock ledges protruding from the side slopes and on the location surface. Starvation Lake is approximately 5 miles to the south and east. Duchesne UT is approximately 12 miles south east. The location drains south and east through numerous dry washes to Rabbit Gulch and then to Starvation Lake.

### Surface Use Plan

#### **Current Surface Use**

Wildlife Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
1.66	<b>Width 255 Length 400</b>	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  
 Pinion, Juniper, prickly pear, brigham tea, mahogany

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

Sandy loam with exposed rock at surface.

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required?** N

**Berm Required?** N

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>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>	>1320	0	
<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>	20	1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit will be place in cut in a stable location. The pit will be 70ft x 235ft x 8ft deep with a total capacity including freeboard of 12,960bbl. Kary Eldredge of BBC said they will use a 16 mil liner with a felt sub-liner.

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>
4320	43013509130000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Little Red Creek Cattle Company	
<b>Well Name</b>	5-2D-36 BTR		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNW 2 3S 6W U 2373 FNL 542 FWL GPS Coord (UTM) 539364E 4455338N				

### 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 arranged by James Hereford of the BLM in cooperation with Bill Barrett Corp and was scheduled prior to the APD being submitted to UDOGM. According to Mr. Hereford, the land owner Gary Stringham was invited but chose not to attend. A surface use agreement is in place. The location site is stable but on exposed bedrock which will require blasting. Kary Eldredge of Bill Barrett stated that a 16 mil liner and felt subliner would be used which will be adequate for this location. Mr. Hereford of the BLM requested that the wood removed from this location be piled for use during reclamation. This appears to be a good site for this location.

Richard Powell  
**Onsite Evaluator**

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

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

<b>Category</b>	<b>Condition</b>
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:** 8/2/2011**API NO. ASSIGNED:** 43013509130000**WELL NAME:** 5-2D-36 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 312-8172**CONTACT:** Venessa Langmacher**PROPOSED LOCATION:** SWNW 02 030S 060W**Permit Tech Review:** **SURFACE:** 2373 FNL 0542 FWL**Engineering Review:** **BOTTOM:** 2364 FNL 1242 FWL**Geology Review:** **COUNTY:** DUCHESNE**LATITUDE:** 40.24946**LONGITUDE:** -110.53717**UTM SURF EASTINGS:** 539364.00**NORTHINGS:** 4455338.00**FIELD NAME:** ALTAMONT**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

**Commingling 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:** 5-2D-36 BTR  
**API Well Number:** 43013509130000  
**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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

AUG 02 2011

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

**APPLICATION FOR PERMIT TO DRILL OR REENTER**

**BLM**

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 UINTAH AND OURAY
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. 5-2D-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. <b>43-113-50913</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWNW 2373FNL 542FWL 40.249572 N Lat, 110.537931 W Lon At proposed prod. zone SWNW 2364FNL 1242FWL 40.249572 N Lat, 110.535425 W Lon		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 13.3 MILES NORTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 2 T3S R6W Mer UBM SME: FEE
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1242' (BOTTOM HOLE)	16. No. of Acres in Lease 52428.45	12. County or Parish DUCHESNE
17. Spacing Unit dedicated to this well 640.00	13. State UT	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2123'
19. Proposed Depth 11792 MD 11734 TVD	20. BLM/BIA Bond No. on file <del>WYB000040</del> <b>LPM 8874725</b>	21. Elevations (Show whether DF, KB, RT, GL, etc.) 6223 GL
22. Approximate date work will start 12/01/2011	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:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. 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 08/02/2011
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) <b>Jerry Kenczka</b>	Date <b>OCT 27 2011</b>
Title Assistant Field Manager Lands & Mineral Resources	Office <b>VERNAL FIELD OFFICE</b>	

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.

**RECEIVED**

Additional Operator Remarks (see next page)

NOV 07 2011

Electronic Submission #114375 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal DIV. OF OIL, GAS & MINING  
Committed to AFMSS for processing by ROBIN R. HANSEN on 08/05/2011 (11RRH1437AE)

**UDOGM**

NOTICE OF APPROVAL

\*\* BLM REVISED \*\*

11SS0772AE

NOS 7/6/2011



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  
Well No: 5-2D-36 BTR  
API No: 43-013-50913

Location: SWNW, Sec. 2, T3S, R6W  
Lease No: 20G0005608  
Agreement: N/A

**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.

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

**CONDITIONS OF APPROVAL:**

- 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 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 shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Divert minor drainages around sites 5-7D-36 BTR, and 5-2D-36 BTR to control runoff during seasonal precipitation events.
- Two 24 inch and one 30 inch culvert are to be installed on the access road for the 5-2D-36 location as indicated on the approved Topo B of the APD package. These must be installed properly to ensure proper control of storm water runoff events. All culverts shall have proper rip rap on the downhill side to lessen soil loss and help to reduce water velocities.
- One 60 inch culvert to be replaced with a low water crossing with adequate rip rap installed upstream and downstream of crossing for the 7-7D-36 proposed location.
- Topsoil from the 7-7D-36 location needs to be protected if sited on the rock outcrop identified on the onsite to minimize the chance of topsoil loss during seasonal precipitation events.
- 20 mil liners will be used in any pits constructed on each of the three locations proposed.
- 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 pads 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.
- All above ground production facilities will be painted Beetle Green on all locations to help blend in with the surrounding habitat.

- Roads shall 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 shall be spaced to adequately catch any runoff along the ditches and aid in diverted water to the surrounding vegetation.
- Production tanks shall be placed so operator can maximize the amount of interim reclamation accomplished on areas not needed for long term production. This will help to lessen the amount of soils lost and maintain viable topsoil for final reclamation efforts.
- 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 will 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 shall 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.

**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 200 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 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.

#### 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 (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

<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> 5-2D-36 BTR	
<b>9. API NUMBER:</b> 43013509130000	
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<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> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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 43013509130000**

API: 43013509130000

Well Name: 5-2D-36 BTR

Location: 2373 FNL 0542 FWL QTR SWNW SEC 02 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		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<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> 5-2D-36 BTR
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013509130000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/8/2013	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

This well was spud on 2/8/13 at 8:00 am by Triple A Drilling.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
February 12, 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> 2/12/2013	



**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
4301351719	2-13D-46 BTR		NENE	13	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<i>new</i>	<i>180085</i>	2/11/2013			2/19/2013	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:00 am. <i>GR-WS</i>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350913	5-2D-36 BTR		SWNW	2	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<i>new</i>	<i>180086</i>	2/8/2013			2/19/2013	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 8:00 am. <i>GR-WS</i>							

**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

2/12/2013

Title

Date

**RECEIVED**

**FEB 12 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> 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> 5-2D-36 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509130000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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: 2/28/2013	<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
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	<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.

Spud February 2013.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 March 06, 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> 3/5/2013	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# H&P 319  
Submitted By Glenn Randel Phone Number 970-623-7078  
Well Name/Number 5-2D-36 BTR  
Qtr/Qtr SW/NW Section 2 Township 3S Range 6W  
Lease Serial Number 20G0005608  
API Number 43-013-50913

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 3/8/13 02:00 AM  PM

BOPE

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

Date/Time 3/9/13 01:30 AM  PM

Remarks \_\_\_\_\_

RECEIVED  
MAR 06 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>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
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<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well	<b>8. WELL NAME and NUMBER:</b> 5-2D-36 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509130000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8164 Ext
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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
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	<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 05, 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	

**5-2D-36 BTR 3/1/2013 12:00 - 3/2/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
---------------------------	------------------------	--------------------	--------------------------------	---------------------------	-------------------------------	---

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	6.00	18:00	1	RIGUP & TEARDOWN	RIG DN ROTARY TOOLS , LOWER DERRICK, REPLACE ALL VALVES AND SEAT IN PUMPS,
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WO DAYLIGHT

**5-2D-36 BTR 3/2/2013 06:00 - 3/3/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
---------------------------	------------------------	--------------------	--------------------------------	---------------------------	-------------------------------	---

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RIG DN, MOVE, RIG UP, ALL OF RIG SET IN. DERRICK ON FLOOR.
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WO DAY LIGHT

**5-2D-36 BTR 3/3/2013 06:00 - 3/4/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RAISE DERRICK. TRUCKS RELEASED @12:00. RIG UP ROTARY TOOLS
18:00	2.50	20:30	14	NIPPLE UP B.O.P	NIPPLE UP CONDUCTOR.
20:30	2.50	23:00	20	DIRECTIONAL WORK	PICK UP BHA
23:00	7.50	06:30	2	DRILL ACTUAL	DRLG 12 1/4" SURFACE HOLE. F/ 104' TO 848' (744' IN 705 HR = 99.2 FPH) ROTATING. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 FIXED 8.30' BTB.2.99' TOPLAN.

**5-2D-36 BTR 3/4/2013 06:00 - 3/5/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.75	16:45	2	DRILL ACTUAL	DRLG 12 1/4" HOLE F 848' TO 1727' (879' IN 10.75 HR = 81.8 FPH) SLIDE: 58' IN 1.75 HR = 33.1 FPH, ROATATE: 821' IN 9 HR = 91.2 FPH. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 FIXED 8.30' BTB.2.99' TOPLAN.
16:45	0.50	17:15	7	LUBRICATE RIG	RIG SERVICE
17:15	12.75	06:00	2	DRILL ACTUAL	DRLG F/ 1727 TO 2513' ( 786' IN 12.75 HR 61.6 FPH) SLIDE:50' IN 2.25 HR = 22.2 FPH, ROTATE: 736' IN 10.25 HR = 71.8 FPH. 27.25' F/ PLAN. LOST RETURNS @ 2077' PUMP 2 40% LCM SWEEPS GET RETURNS BACK. STILL GOING OVER SHAKERS.

**5-2D-36 BTR 3/5/2013 06:00 - 3/6/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRLG F/ 2513' TO 2858' (345' IN 8.5 HR = 40.5 FPH) SLIDE: 45' IN 1.75 HR = 25.7 FPH, ROTATE: 300' IN 6.75 HR = 44.4 FPH. LOSTRETURNS @ 2796' SLOW PUMP TO 630 G/ MIN. SWEEP W/ 40% LCM. BY PASS SHAKERS. STILL ONLY GETTING 80% RETURNS.
14:30	1.00	15:30	5	COND MUD & CIRC	MIX AND PUMP 40% LCM PILL. DISPLACE W/ DRY SLUG AND TRIP F/ BIT
15:30	0.75	16:15	6	TRIPS	TRIP F/ BIT #2
16:15	0.50	16:45	7	LUBRICATE RIG	RIG SERVICE. FIX LINK TILT.
16:45	2.50	19:15	6	TRIPS	TRIP F/ BIT
19:15	10.75	06:00	2	DRILL ACTUAL	DRLG F/ 2858 TO 3205' (347' IN 10.75 HR = 32.3 FPH) SLIDE: 77' IN 5 HR = 15.4 FPH, ROTATE: 270' IN 5.75 HR = 60 FPH. LOST RETURNS @ 3017' MIX LCM RAISE LCM TO 15 % SHAKERS STILL BY PASSED.

**5-2D-36 BTR 3/6/2013 06:00 - 3/7/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3205-3236'. ROP 41.3 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:45	1.00	07:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3236-3256'. ROP 20 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3256-3283'. ROP 54 FPH.
08:15	0.75	09:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3283-3298'. ROP 20 FPH.
09:00	0.75	09:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3298-3330'. ROP 42.7 FPH.
09:45	1.25	11:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3330-3355'. ROP 20 FPH.
11:00	0.50	11:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3355-3377'. ROP 44 FPH.
11:30	1.00	12:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3377-3392'. ROP 15 FPH.
12:30	1.00	13:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3392-3425'. ROP 33 FPH.
13:30	1.00	14:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3425-3445'. ROP 20 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3445-3472'. ROP 54 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3472-3492'. ROP 13.3 FPH. SCREEN UP SHAKERS AT 16:30 HRS, 3500'.
16:30	1.00	17:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3492-3519'. ROP 27 FPH.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	1.00	19:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3519-3539'. ROP 20 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3539-3566'. ROP 54 FPH.
19:30	1.50	21:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3566-3586'. ROP 13.3 FPH.
21:00	0.50	21:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3586-3617'. ROP 62 FPH.
21:30	1.25	22:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3617-3637'. ROP 16 FPH.
22:45	0.50	23:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3637-3660'. ROP 46 FPH.
23:15	1.00	00:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3660-3680'. ROP 20 FPH.
00:15	0.50	00:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3680-3706'. ROP 52 FPH.
00:45	1.00	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3706-3731'. ROP 25 FPH.
01:45	0.25	02:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3731-3755'. ROP 96 FPH.
02:00	1.25	03:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3755-3780'. ROP 20 FPH.
03:15	0.50	03:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3780-3801'. ROP 42 FPH.
03:45	1.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3801-3826'. ROP 20 FPH.
05:00	0.50	05:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3826-3849'. ROP 46 FPH.
05:30	0.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3849-3857'. ROP 16 FPH.

**5-2D-36 BTR 3/7/2013 06:00 - 3/8/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3857-3874'. ROP 22.7 FPH.
06:45	0.75	07:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3874-3896'. ROP 29.3 FPH.
07:30	1.25	08:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3896-3921'. ROP 20 FPH.
08:45	0.75	09:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3921-3942'. ROP 28 FPH.
09:30	1.25	10:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3942-3967'. ROP 20 FPH.
10:45	0.75	11:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3967-3990'. ROP 30.7 FPH.
11:30	0.50	12:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
12:00	5.25	17:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3990-4015'. ROP 4.8 FPH. #2 PUMP DOWN, 3990-4015', 11:30-16:45 HRS, ROP 3.8 FPH.
17:15	0.75	18:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4015-4037'. ROP 29.3 FPH.
18:00	1.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4037-4061'. ROP 19.2 FPH.
19:15	0.75	20:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4061-4086'. ROP 33.3 FPH.
20:00	3.75	23:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4086-4111'. ROP 6.7 FPH. #1 PUMP DOWN 20:30-23:15 HRS, 4088-4103'.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4111-4132'. ROP 42 FPH.
00:15	1.50	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4132-4157'. ROP 16.7 FPH.
01:45	1.00	02:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4157-4181'. ROP 24 FPH.
02:45	2.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4181-4211' (TD). ROP 13.3 FPH.
05:00	1.00	06:00	5	COND MUD & CIRC	PUMP 70 BBL HAVIS LCM SWEEP & CIRCULATE HOLE CLEAN.

**5-2D-36 BTR 3/8/2013 06:00 - 3/9/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	POH TO 1916'. TIGHT AT 3045, CIRC/BACKREAM OUT 3050-3033'.
08:00	1.50	09:30	6	TRIPS	RIH & PRECAUTIONARY WASH LAST STAND DOWN. HOLE GOOD.
09:30	3.75	13:15	5	COND MUD & CIRC	PUMP 70 BBL HAVIS/LCM SWEEP & CIRCULATE 1.5 BOTTOMS UP. LOST RETURNS WHILE CIRCULATING OUT SWEEP AT 10:00 HRS W/SWEEP AT ~1700'. SLOW PUMPS TO 315 GPM & MIX LCM & BYPASS SHAKERS. REDUCE PUMPS FURTHER TO 225 GPM. MUD LEVEL OUT OF SIGHT. OBSERVED RETURNS AT 11:15 HRS. CONTINUE TO CIRCULATE BUILDING VIS & ADDING LCM. STAGE UP PUMPS TO 585 GPM W/~90% RETURNS.
13:15	4.25	17:30	6	TRIPS	POH TO RUN SURFACE CASING. LAY DOWN 8" DC & SPERRY TOOLS. BIT #2 COND: 1-3-BT-S/N-X-I-CT-TD.
17:30	1.25	18:45	12	RUN CASING & CEMENT	HELD PJSM. CLEAN UP RIG FLOOR & INSTALL HYDRAULIC SLIPS. RIG UP WEATHERFORD CASING TOOLS.
18:45	5.75	00:30	12	RUN CASING & CEMENT	MAKE UP & THREADLOCK 1 JT SHOE TRACK. RUN TOTAL OF 96 JTS 9 5/8, 36#, J55, LTC, R3 CASING. LAND SHOE @ 4207' & FLOAT COLLAR @ 4161'. NO RETURNS AFTER SHOE AT 1580'. FILL CASING EVERY 5 JTS W/CLEAN MUD.
00:30	4.25	04:45	5	COND MUD & CIRC	FILL CASING & CASING PLUGGED. UNPLUG W/1200 PSI.  CIRC CASING W/O RETURNS W/20% LCM IN MUD. MILKING CASING W/112 GPM ATTEMPTING TO REGAIN RETURNS. BUILDING VOLUME. MUD LEVEL OUT OF SIGHT. HOLE FILLED & OBSERVED SLIGHT RETURNS AT 01:15 HRS. 25 BPH LOSSES (95% RETURNS) AT 03:15 HRS W/382 GPM.
04:45	0.50	05:15	12	RUN CASING & CEMENT	HELD PJSM. LAND CASING, REMOVE CIRC SWEDGE & INSTALL CEMENT HEAD.
05:15	0.75	06:00	12	RUN CASING & CEMENT	COMMENCE CEMENT JOB. DETAILS ON NEXT REPORT.

**5-2D-36 BTR 3/9/2013 06:00 - 3/10/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	12	RUN CASING & CEMENT	TEST LINE TO 2000 PSI. HOWCO PUMPED 20 BBL WATER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 20 BBL WATER, 740 SX (416 BBL) LEAD @ 11 PPG, 240 SX (57 BBL) TAIL @ 14.8 PPG. DROP TOP PLUG & DISPLACED W/322 BBL 8.7 PPG MUD. BUMPED PLUG W/1100 PSI OVER FDP, TOTAL PRESSURE 1600 PSI & HELD 10 MIN. BLED OFF 2 BBL & FLOATS HELD.  LOST RETURNS AT START OF DISPLACEMENT, 322 BBL LOST. NO CEMENT TO SURFACE. CIP @ 08:10 HRS. IT APPEARS CEMENT TOP WAS AT ~1550' WHEN RETURNS WERE LOST.
08:30	2.75	11:15	13	WAIT ON CEMENT	RIG DOWN HOWCO CEMENT HEAD & LINES.  WOC.
11:15	4.00	15:15	14	NIPPLE UP B.O.P	SLACK OFF CASING & LAY DOWN RISER. DRAIN/CUT CASING. INSTALL CASING HEAD & TEST TO 1400 PSI W/NITROGEN.
15:15	1.00	16:15	12	RUN CASING & CEMENT	RIG UP HOWCO, RUN ONE JT 1" PIPE INTO 9 5/8 X 16" ANNULUS. TAGGED UP AT 24'. PERFORM TOP CEMENT JOB W/10 BBL CLASS G CEMENT + 2% CaCl2.
16:15	3.00	19:15	14	NIPPLE UP B.O.P	NIPPLE UP BOPE.
19:15	3.75	23:00	15	TEST B.O.P	RIG UP TESTERS & TEST BOPE. RAMS, VALVES, CHOKE MANIFOLD & CHOKE TO 250/5000 PSI FOR 5/10 MIN. KELLY VALVES, SAFETY VALVES & IBOP TO 250/5000 PSI FOR 5/10 MIN. ANNULAR PREVENTER TO 250/2500 PSI FOR 5/10 MIN. RIG DOWN TESTERS.
23:00	0.50	23:30	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING.
23:30	4.00	03:30	6	TRIPS	PICK UP & MAKE UP 8 3/4 BHA & RIH TO FLOAT COLLAR @ 4160'.  NOTE: CHANGED TIME AHEAD FOR DAYLIGHT SAVINGS TIME.
03:30	1.50	05:00	3	REAMING	DRILL OUT SHOE TRACK & WASH TO TD.
05:00	0.25	05:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4211-4221'. ROP 40 FPH.
05:15	0.75	06:00	22	OPEN	ATTEMPT TO PERFORM FIT TO 10.5 PPG EMW, BUT WOULD ONLY HOLE 220 PSI = 9.6 PPG. MW 8.6 PPG.  MIX 50 BBL PILL OF 20% LCM.

**5-2D-36 BTR 3/10/2013 06:00 - 3/11/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	SPOT 50 BBL 20% LCM PILL FROM 4221-3500'. CLOSE ANNULAR PREVENTER & PERFORM FIT TO 10.5 PPG EMW W/415 PSI SURFACE PRESSURE. MW 8.6 PPG.
06:30	2.25	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4221-4284'. ROP 28 FPH.
08:45	1.00	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4284-4299'. ROP 15 FPH.
09:45	0.75	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4299-4347'. ROP 64 FPH.  COMMENCE SWEEPING HOLE W/15 BBL MUD + 25 PPB FIT + 15% LCM EACH CONNECTION.
10:30	1.25	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4347-4363'. ROP 12.8 FPH.
11:45	1.25	13:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4363-4441'. ROP 62.4 FPH.
13:00	0.50	13:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4441-4461'. ROP 40 FPH.
13:30	0.75	14:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4461-4535'. ROP 98.7 FPH.
14:15	1.25	15:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4535-4556'. ROP 16.8 FPH.
15:30	0.25	15:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4556-4583'. ROP 108 FPH.
15:45	1.00	16:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4583-4602'. ROP 19 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4602-4630'. ROP 37.3 FPH.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	1.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4630-4650'. ROP 16 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4650-4677'. ROP 108 FPH.
19:30	1.00	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4677-4697'. ROP 20 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4697-4724'. ROP 54 FPH.
21:00	1.00	22:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4724-4744'. ROP 20 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4744-4771'. ROP 108 FPH.
22:15	1.25	23:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4771-4791'. ROP 16 FPH.
23:30	0.50	00:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4791-4819'. ROP 56 FPH.
00:00	1.25	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4819-4844'. ROP 20 FPH.
01:15	0.25	01:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4844-4867'. ROP 92 FPH.
01:30	1.25	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4867-4892'. ROP 20 FPH.
02:45	0.25	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4892-4914'. ROP 88 FPH.
03:00	1.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4914-4939'. ROP 16.7 FPH.
04:30	0.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4939-4959'. ROP 40 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4959-4974'. ROP 15 FPH.

**5-2D-36 BTR 3/11/2013 06:00 - 3/12/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4974-4984'. ROP 20 FPH.  PUMPING 15 BBL MUD + 25 PPB FIT + 20% LCM EVERY STAND.
06:30	0.50	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4984-5007'. ROP 46 FPH.
07:00	1.50	08:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5007-5027'. ROP 13.3 FPH.
08:30	1.50	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5027-5101'. ROP 49.3 FPH.
10:00	1.50	11:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5101-5126'. ROP 16.7 FPH.
11:30	3.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5126-5284'. ROP 45.1 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5384-5313'. ROP 19.3 FPH.
16:30	0.75	17:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5313-5384'. ROP 94.7 FPH.
17:15	0.50	17:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:45	0.75	18:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5384-5409'. ROP 33.3 FPH.
18:30	0.50	19:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5409-5431'. ROP 44 FPH.
19:00	1.50	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5431-5451'. ROP 13.3 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5451-5476'. ROP 50 FPH.
21:00	1.25	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5476-5496'. ROP 16 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5496-5524'. ROP 56 FPH.
22:45	1.25	00:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5524-5550'. ROP 20.8 FPH.
00:00	0.50	00:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5550-5572'. ROP 44 FPH.
00:30	1.25	01:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5572-5602'. ROP 24 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5602-5619'. ROP 34 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:15	1.25	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5619-5644'. ROP 20 FPH.
03:30	0.50	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5644-5667'. ROP 46 FPH.
04:00	1.00	05:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5667-5683'. ROP 16 FPH.
05:00	0.75	05:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5683-5714'. ROP 41.3 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5714-5718'. ROP 16 FPH.
ESTIMATE 24 BPH SEEPAGE LOSSES IN LAST 24 HRS.					

**5-2D-36 BTR 3/12/2013 06:00 - 3/13/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	COMPLETION	4,211.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5718-5730'. ROP 24 FPH.
06:30	0.50	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5730-5761'. ROP 62 FPH.
07:00	1.25	08:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5761-5778'. ROP 13.6 FPH.
08:15	0.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5778-5808'. ROP 60 FPH.
08:45	1.50	10:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5808-5825'. ROP 11.3 FPH.
10:15	0.50	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5825-5855'. ROP 60 FPH.
10:45	1.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5855-5872'. ROP 11.3 FPH.
12:15	1.00	13:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5872-5902'. ROP 30 FPH.
13:15	0.75	14:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5902-5912'. ROP 13.3 FPH.
14:00	0.75	14:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5912-5950'. ROP 50.7 FPH.
14:45	1.25	16:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5950-5963'. ROP 10.4 FPH.
16:00	1.00	17:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5963-5997'. ROP 34 FPH.
17:00	1.25	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5997-6007'. ROP 8 FPH.
18:15	1.00	19:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6007-6046. ROP 39 FPH.
19:15	1.75	21:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6046-6061'. ROP 8.6 FPH.
21:00	1.00	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6061-6091'. ROP 30 FPH.
22:00	0.50	22:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6091-6106'. ROP 30 FPH.
22:30	1.00	23:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6106-6138'. ROP 32 FPH.
23:30	1.00	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6138-6158'. ROP 20 FPH.
00:30	0.75	01:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6158-6185'. ROP 36 FPH.
01:15	0.75	02:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6185-6205'. ROP 26.7 FPH.
02:00	1.00	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6205-6232'. ROP 36 FPH.
03:00	1.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6232-6257'. ROP 16.7 FPH.
04:30	1.00	05:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6257-6280'. ROP 23 FPH.
05:30	0.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6280-6283'. ROP 6 FPH.

**5-2D-36 BTR 3/13/2013 06:00 - 3/14/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	COMPLETION	4,211.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6283-6289'. ROP 12 FPH.
PREP FOR BIT TRIP.					
06:30	4.50	11:00	6	TRIPS	PUMP SLUG & POH FOR NEW BIT #4. BREAK OFF BIT #3. COND: 1-3-BT-N/S-X-I-RO-PR.
11:00	4.00	15:00	2	DRILL ACTUAL	MAKE UP NEW BIT #4 & RIH. PRECAUTIONARY WASH LAST STAND TO BOTTOM.
15:00	0.25	15:15	2	DRILL ACTUAL	BREAK IN NEW BIT & DRILL 8 3/4 HOLE 6289-6294'. ROP 20 FPH.
15:15	0.75	16:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6294-6306'. ROP 160FPH.
16:00	0.50	16:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6306-6327'. ROP 42 FPH.
16:30	0.50	17:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6327-6342'. ROP 30 FPH.
17:00	1.00	18:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6342-6380'. ROP 38 FPH.
18:00	0.25	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6380-6389'. ROP 36 FPH.
18:15	0.50	18:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6389-6422'. ROP 66 FPH.
18:45	0.50	19:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
19:15	0.25	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6422-6437'. ROP 60 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
19:30	0.50	20:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6437-6468'. ROP 62 FPH.
20:00	0.50	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6468-6483'. ROP 30 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6486-6515'. ROP 64 FPH.
21:00	0.75	21:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6515-6538'. ROP 30.7 FPH.
21:45	0.25	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6538-6563'. ROP 100 FPH.
22:00	1.00	23:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6563-6588'. ROP 25 FPH.
23:00	0.25	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6588-6609'. ROP 84 FPH.
23:15	1.25	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6609-6634'. ROP 20 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6634-6657'. ROP 46 FPH.
01:00	0.50	01:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6657-6672'. ROP 30 FPH.
01:30	0.25	01:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6672-6704'. ROP 128 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6704-6712'. ROP 16 FPH.
02:15	0.50	02:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6712-6751'. ROP 78 FPH.
02:45	0.50	03:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6751-6761'. ROP 20 FPH.
03:15	0.50	03:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6761-6799'. ROP 76 FPH.
03:45	1.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6799-6825'. ROP 20.8 FPH.
05:00	0.25	05:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6825-6845'. ROP 80 FPH.
05:15	0.75	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6845-6865'. ROP 26.7 FPH.

**5-2D-36 BTR 3/14/2013 06:00 - 3/15/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6865-6892'. ROP 54 FPH. PUMPING 15 BBL LCM SWEEP EVERY STAND.
06:30	1.25	07:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6892-6922'. ROP 24 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6922-6947'. ROP 50 FPH.
08:15	1.75	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6947-6987'. ROP 22.9 FPH.
10:00	0.25	10:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6987-6996'. ROP 36 FPH.
10:15	1.25	11:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6996-7020'. ROP 19.2 FPH.
11:30	0.25	11:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7020-7034'. ROP 56 FPH.
11:45	0.75	12:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7034-7041'. ROP 9.3 FPH.
12:30	0.75	13:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7041-7081'. ROP 53.3 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7081-7096'. ROP 53.3 FPH.
13:30	0.25	13:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7096-7128'. ROP 128 FPH.
13:45	1.00	14:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7128-7147'. ROP 19 FPH.
14:45	0.25	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7147-7175'. ROP 112 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	1.00	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7175-7199'. ROP 24 FPH.
16:30	0.25	16:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7199-7222'. ROP 92 FPH.
16:45	2.50	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7222-7253'. ROP 12.4 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7253-7270'. ROP 68 FPH.
19:30	2.75	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7270-7300'. ROP 10.9 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7300-7320'. ROP 40 FPH.
22:45	1.75	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7320-7340'. ROP 11.4 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7340-7363'. ROP 46 FPH.
01:00	1.50	02:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7363-7383'. ROP 13.3 FPH.
02:30	0.50	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7383-7411'. ROP 54 FPH.
03:00	1.25	04:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7410-7430'. ROP 16 FPH.
04:15	0.50	04:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7430-7457'. ROP 54 FPH.
04:45	1.00	05:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7457-7478'. ROP 21 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7478-7505'. ROP 108 FPH.

**5-2D-36 BTR 3/15/2013 06:00 - 3/16/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7505-7525'. ROP 16 FPH. PUMPING 15 BBL SCM SWEEP EVERY STAND.
07:15	0.50	07:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7525-7552'. ROP 54 FPH.
07:45	1.00	08:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7552-7572'. ROP 20 FPH.
08:45	0.50	09:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7572-7599'. ROP 54 FPH.
09:15	0.75	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7599-7602'. ROP 4 FPH. DIFFICULT SLIDING.
10:00	0.75	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7602-7647'. ROP 60 FPH.
10:45	1.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7647-7677'. ROP 20 FPH.
12:15	0.75	13:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7677-7741'. ROP 85.3 FPH.
13:00	1.50	14:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7741-7768'. ROP 18 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7768-7788'. ROP 40 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7788-7818'. ROP 20 FPH.
16:30	0.75	17:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7818-7835'. ROP 22.7 FPH.
17:15	0.50	17:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:45	1.50	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7835-7860'. ROP 16.7 FPH.
19:15	0.50	19:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7860-7882'. ROP 44 FPH.
19:45	2.25	22:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7882-7908'. ROP 11.6 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7908-7928'. ROP 80 FPH.
22:15	2.00	00:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7928-7950'. ROP 11 FPH.
00:15	0.50	00:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7950-7976'. ROP 52 FPH.
00:45	1.50	02:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7976-7998'. ROP 14.7 FPH.
02:15	0.25	02:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7998-8023'. ROP 100 FPH.
02:30	1.50	04:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8023-8043'. ROP 13.3 FPH.
04:00	0.50	04:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8043-8070'. ROP 54 FPH.
04:30	1.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8070-8085'. ROP 10 FPH.

**5-2D-36 BTR 3/16/2013 06:00 - 3/17/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8085-8118'. ROP 66 FPH. PUMPING #1 DRILLCHEM SWEEPS EVERY STAND & OBSERVING ~15 BPH SEEPAGE.
06:30	1.25	07:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8118-8138'. ROP 16 FPH.
07:45	1.00	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8138-8212'. ROP 74 FPH.
08:45	1.25	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8212-8232'. ROP 16 FPH.
10:00	1.00	11:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8232-8306'. ROP 74 FPH.
11:00	1.00	12:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8306-8328'. ROP 22 FPH.
12:00	0.75	12:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8328-8400'. ROP 96 FPH.
12:45	0.50	13:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8400-8415'. ROP 30 FPH.
13:15	0.75	14:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8415-8494'. ROP 105.3 FPH.
14:00	0.50	14:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
14:30	2.00	16:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8494-8684'. ROP 95 FPH.
16:30	1.00	17:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8684-8699'. ROP 15 FPH.
17:30	1.00	18:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8699-8782'. ROP 83 FPH.
18:30	0.75	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8782-8802'. ROP 26.7 FPH.
19:15	1.25	20:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8802-8871'. ROP 55.2 FPH.
20:30	1.00	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8871-8891'. ROP 20 FPH.
21:30	1.50	23:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8891-8966'. ROP 50 FPH.
23:00	1.25	00:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8966-8986'. ROP 16 FPH.
00:15	1.75	02:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8986-9058'. ROP 41.1 FPH.
02:00	1.50	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9058-9078'. ROP 13.3 FPH.
03:30	1.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9078-9153'. ROP 50 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9153-9163'. ROP 10 FPH.

**5-2D-36 BTR 3/17/2013 06:00 - 3/18/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9163-9174'. ROP 11 FPH. PUMPING 15 BBL #1 DRILLCHEM SWEEP EVERY STAND.
07:00	2.00	09:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9174-9249'. ROP 37.5 FPH. STARTED LOSING MUD @ 9130'. PUMP 50 BBL FIT/LCM PILL, BYPASS SHAKERS.
09:00	1.00	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9249-9280'. ROP 31 FPH. MIX/SPOT 50 BBL LCM PILL ON BOTTOM. PREP FOR TRIP. SUSPECT MOTOR PROBLEM - VERY HIGH DIFF PRESSURE FOR WOB.
10:00	6.75	16:45	6	TRIPS	PULL 5 STANDS WET, PUMP SLUG. CONTINUE TO POH FOR NEW BIT #5 & NEW MOTOR. LAY DOWN RR. BREAK OFF BIT & LAY DOWN MOTOR. BIT COND: 0-1-WT-S-X-I-NO-DMF.
16:45	5.75	22:30	6	TRIPS	PICK UP NEW MOTOR, MAKE UP NEW BIT #5 & SCRIBE MOTOR TO MWD, INSTALL MWD PROBE. PICK UP NEW RR. RIH. FILL STRING AT SHOE & 6800'. PRECAUTIONARY WASH LAST STAND TO BOTTOM.
22:30	7.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9280-9710'. ROP 57.3 FPH. BYPASSING SHAKERS, TREATING ENTIRE SYSTEM W/FIT & LCM. ATTEMPTING TO WT UP MUD TO 9.4-9.5 PPG. OBSERVING SEEPAGE & SOME PERIODIC LOSSES.

**5-2D-36 BTR 3/18/2013 06:00 - 3/19/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9710-9813'. ROP 68.7 FPH.
07:30	1.25	08:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9813-9825'. ROP 9.6 FPH.
08:45	1.75	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9825-9907'. ROP 46.9 FPH.
10:30	1.25	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9907-9916'. ROP 7.2 FPH.
11:45	1.75	13:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9916-10001'. ROP 48.6 FPH.
13:30	0.50	14:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
14:00	1.00	15:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 10001-10018'. ROP 17 FPH.
15:00	15.00	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 10018-10733'. ROP 47.7 FPH. AT 10200', STARTED SHAKING OUT SOLIDS/LCM FROM SYSTEM & CONTINUE ADDING FRESH LCM. CURRENTLY LOSING ~ 15 BPH.

**5-2D-36 BTR 3/19/2013 06:00 - 3/20/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.75	18:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 10733-11217'. ROP 38 FPH. CONTINUE TO SWEEP W/15 BBL DRILLCHEM #1 PILL EVERY STAND. BYPASS SHAKERS AT 11140'. BGG 4000-5000 U. 8-15' FLARE. INCREASE MW TO KILL GAS. WELL FLOWED ON CONNECTION AT 11133'. BUILDING LCM TO 25% NO COMPLETE LOSSES, BUT SEEPING AT ~50 BPH. DRILL W/ONE PUMP 10956-10980' (52 MIN) 27.6 FPH.
18:45	1.25	20:00	5	COND MUD & CIRC	CIRCULATE & BUILD MUD VOLUME. WORK ON YELLOW DOG PUMPS.
20:00	1.25	21:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 11217-11275'. ROP 46.4 FPH. SHAKERS BYPASSED, 20% LCM.
21:15	2.00	23:15	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1.5 BOTTOMS UP. FLOW CHECK - NEGATIVE. PUMP SLUG.
23:15	3.75	03:00	6	TRIPS	TRIP TO 5500' NO PROBLEMS.
03:00	1.50	04:30	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1.5 BOTTOMS UP. FLOW CHECK - NEGATIVE. PUMP SLUG.
04:30	1.50	06:00	6	TRIPS	POH TO LOG.

**5-2D-36 BTR 3/20/2013 06:00 - 3/21/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.75	09:45	6	TRIPS	TOOH, L/D DIRCTIONAL TOOLS
09:45	0.50	10:15	7	LUBRICATE RIG	RIG SERVICE
10:15	8.75	19:00	11	WIRELINE LOGS	HSM, RIG UP HES AND LOG. RESTIVTY TOOL READING HIGH, SWAP OUT. RUN QUAD COMBO F/ 12285' TO SURFACE CASING.
19:00	4.25	23:15	6	TRIPS	PULLWEAR BUSHING TIH.
23:15	1.75	01:00	5	COND MUD & CIRC	CIRC. 1 1/2 BOTTOMS UP. 15' FLARE.
01:00	5.00	06:00	6	TRIPS	LDDP

**5-2D-36 BTR 3/21/2013 06:00 - 3/22/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	LDDP AND BHA
08:00	10.00	18:00	12		HSM, RUN CASING. FS (1.25'), 2 SHOE JTS (87.08'), FC (.92'), 29 JTS 51/2" 17# HCP110 LT&C CASING (1298.5), MARKER JT (22.08'), 29 JTS (1306.09'), 190 JTS (8533.34). LANDED @ 11265' MADE W/ BESTOLIFE DOPE TO 4620 FT/LB.
18:00	1.50	19:30	5	COND MUD & CIRC	CIRC. W/ RIG PUMP @ 10 BL/MIN FULL RETURNS.
19:30	5.00	00:30	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 5 BLS H2O, 40 BLS SUPERFLUSH, 10 BLS H2O, 1000 SKS TUNED LIGHT 11# 2.32 YEILD W/ 5 LB SILICALITE, 10 LB SCOTCHLITE,, .35 LB HALAD 344. TAILED W/ 625 SKS ECONOCHEM 13.5# 1.45 YEILD W/ 1 LB GRALULITE, .125 LB POLY-E-FLAKE. DISPLACED W/ 259 BLS H2O W/ CLAYWEB, AND ALICIDE. BUMP PLUG FLOATS HELD. WITH 54 BLS LEFT IN DIPLACEMENT LOST RETURNS.
00:30	5.50	06:00	14	NIPPLE UP B.O.P	NIPPLE DN SET SLIP W/ 220K. CLEAN MUD TANKS. RIG RELEASE @ 06:00 HR 3/22/13.

**5-2D-36 BTR 3/27/2013 06:00 - 3/28/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
09:00	5.00	14:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides.N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16' x 5k Gate Valves. Tested Hanger Seals To 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

**5-2D-36 BTR 3/29/2013 06:00 - 3/30/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.
08:00	1.50	09:30	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
09:30	5.00	14:30	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 11,059', Drilling Report Shows FC At 11,176', 117' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 11,059', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 03-20-2013. Run Repeat Section From 11,059 - 10,750', Log Up Hole. Showed Good Bond From TD To 7,350, 7,350 - 6,000' Good To Fair, 6,000 - 2,120 Fair To Spotty. TOC 2,120'. Found Short Joints At 9,810 - 9,832' And 8,527 - 8,549'. Ran With Pressure. Pooh, RD Equipment, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# H&P 319  
Submitted By Glenn Randel Phone Number 970-623-7078  
Well Name/Number 5-2D-36 BTR  
Qtr/Qtr SW/NW Section 2 Township 3S Range 6W  
Lease Serial Number 20G0005608  
API Number 43-013-50913

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 3/21/13 16:00 AM  PM

BOPE

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

RECEIVED

MAR 20 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		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 2OG0005608
		<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> 5-2D-36 BTR
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013509130000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/20/2013	<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 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 4/20/2013.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
April 23, 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> 4/23/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</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>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 5-2D-36 BTR	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013509130000	
<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> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Attached is the April 2013 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 10, 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> 5/3/2013	

**5-2D-36 BTR 4/5/2013 06:00 - 4/6/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	FACILITIES UNDER CONSTRUCTION. KINDER MORGAN INSTALLING GAS LINE.

**5-2D-36 BTR 4/6/2013 06:00 - 4/7/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	KINDER MORGAN INSTALLING GAS LINE

**5-2D-36 BTR 4/7/2013 06:00 - 4/8/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	KINDER MORGAN INSTALLING GAS LINE. MOVE IN FB TANKS. START MOVE IN FRAC LINE.

**5-2D-36 BTR 4/8/2013 06:00 - 4/9/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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 AND PLUMB IN FB EQUIP.

**5-2D-36 BTR 4/9/2013 06:00 - 4/10/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	UNABLE TO GET TO LOCATION TO INSTALL FRAC VALVES DUE TO SNOW CONDITIONS AND GAS LINE INSTALL.

**5-2D-36 BTR 4/11/2013 06:00 - 4/12/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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 Mandrel. Set Frac Tree, Test Casing. Plumb In FlowBack, Test FlowBack/SandTrap. Construction Crew Working On Facilities.

**5-2D-36 BTR 4/12/2013 06:00 - 4/13/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	Construction Crew Working On Facilities. Repair Location And Road For Setting Tanks And Filling. Set Frac Line/Fill

**5-2D-36 BTR 4/13/2013 06:00 - 4/14/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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. Set Fill Manifold And Fall Protection.

**5-2D-36 BTR 4/14/2013 06:00 - 4/15/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
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**5-2D-36 BTR 4/14/2013 06:00 - 4/15/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	PRODUCING	4,211.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FINISH FILLING FRAC LINE.

**5-2D-36 BTR 4/15/2013 06:00 - 4/16/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	PRODUCING	4,211.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Heat KCL Tanks. HES Load And Mix Acid. Set Movers. Prep For Frac.

**5-2D-36 BTR 4/16/2013 06:00 - 4/17/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	PRODUCING	4,211.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.
10:30	1.50	12:00	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Perforate Stage 1 CR-5/CR-4A/CR-4 Zone, 10,733 - 11,057'. 51 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
12:00	3.00	15:00	SRIG	Rig Up/Down	HES Rigging Up
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**5-2D-36 BTR 4/17/2013 06:00 - 4/18/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	PRODUCING	4,211.0	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	1.17	07:10	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 18  Open Well, 45 Psi. ICP. BrokeDown At 8.8 Bpm And 4,429 Psi..  Pump 3900 Gals. 15% HCL And 102 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 67.8 Bpm And 6,545 Psi., Get ISIP, 3,882 Psi.. 0.79 Psi./Ft.  F.G.. 31/51 Holes.  Con't With SlickWater Pad, 49,014 Gals..  Stage Into Hybor Pad, 70.4 Bpm At 6,408 Psi..  On Perfs, 70.4 Bpm At 6,836 Psi., 11,970 Gals.  Stage Into 2.0# 20/40 CRC Prop, 70.4 Bpm At 6,887 Psi..  On Perfs, 70.3 Bpm At 6,420 Psi., 11,604 Gals.  Stage Into 3.0# 20/40 CRC Prop, 70.3 Bpm At 6,341 Psi..  On Perfs, 70.3 Bpm At 5,656 Psi., 12,360 Gals.  Stage Into 3.5# 20/40 CRC Prop, 70.3 Bpm At 5,640 Psi..  On Perfs, 70.3 Bpm At 5,947 Psi., 13,008 Gals.  Cut Sand Due To Sharp Increase In Net.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 4,393 Psi.. 0.84 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 CRC Prop - 98,040#, 65% Of Design  Total Clean - 125,167 Gals.. 2,980 Bbls..  Produced Water - 74,142 Gals..  2% KCL - 48,942 Gals..  BWTR - 3,104 Bbls.  Max. Rate - 70.4 Bpm  Avg. Rate - 70.3 Bpm  Max. Psi. - 6,906 Psi.  Avg. Psi. - 6,056 Psi.</p>
07:10	0.17	07:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:20	1.50	08:50	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Set CBP At 10,708'. 3,600 Psi..  Perforate Stage 2 CR-4/CR-3 Zone, 10,435 - 10,688'. 45 Holes. 1,700 Psi..  POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
08:50	0.08	08:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:55	1.25	10:10	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16  Open Well, 2,215 Psi. ICP. BrokeDown At 10.9 Bpm And 4,385 Psi..  Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall.  Get Stabilized Injection Of 71.1 Bpm And 5,941 Psi., Get ISIP, 3,168 Psi.. 0.74 Psi./Ft.  F.G.. 35/45 Holes.  Con't With SlickWater Pad, 48,413 Gals..  Stage Into Hybor Pad, 70.2 Bpm At 5,172 Psi..  On Perfs, 69.1 Bpm At 5,415 Psi., 12,036 Gals.  Stage Into 2.0# 20/40 CRC Prop, 69.0 Bpm At 5,510 Psi..  On Perfs, 69.9 Bpm At 5,161 Psi., 12,554 Gals.  Stage Into 3.0# 20/40 CRC Prop, 69.9 Bpm At 5,125 Psi..  On Perfs, 70.0 Bpm At 4,951 Psi., 15,068 Gals.  Stage Into 3.5# 20/40 CRC Prop, 70.0 Bpm At 4,949 Psi..  On Perfs, 69.8 Bpm At 5,124 Psi., 17,021 Gals.  Stage Into 4.0# 20/40 CRC Prop, 69.7 Bpm At 5,242 Psi..  On Perfs, 70.8 Bpm At 6,314 Psi., 6,167 Gals.  Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..  Get ISDP, 3,773 Psi.. 0.80 Psi./Ft. F.G.. WSI And Secured.  Total 20/40 CRC Prop - 148,500#,  Total Clean - 137,329 Gals.. 3,270 Bbls..  Produced Water - 72,562 Gals..  2% KCL - 62,846 Gals..  BWTR - 3,440 Bbls.  Max. Rate - 70.2 Bpm  Avg. Rate - 69.8 Bpm  Max. Psi. - 5,555 Psi.  Avg. Psi. - 5,137 Psi.</p>
10:10	0.17	10:20	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
10:20	1.33	11:40	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Set CBP At 10,410'. 3,200 Psi.. Perforate Stage 3 CR-3 Zone, 10,125 - 10,393'. 45 Holes. 2,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:40	0.08	11:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
11:45	1.25	13:00	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 16 Open Well, 2,876 Psi. ICP. BrokeDown At 10.7 Bpm And 3,680 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 68.6 Bpm And 6,251 Psi., Get ISIP, 2,810 Psi.. 0.71 Psi./Ft. F.G.. 32/45 Holes. Con't With SlickWater Pad, 48,201 Gals.. Stage Into Hybor Pad, 70.2 Bpm At 5,010 Psi.. On Perfs, 70.0 Bpm At 5,460 Psi., 11,964 Gals. Stage Into 2.0# 20/40 White Prop, 70.0 Bpm At 5,478 Psi.. On Perfs, 70.0 Bpm At 4,910 Psi., 10,932 Gals. Stage Into 3.0# 20/40 White Prop, 70.0 Bpm At 4,858 Psi.. On Perfs, 69.8 Bpm At 4,249 Psi., 14,803 Gals. Stage Into 3.5# 20/40 White Prop, 69.7 Bpm At 4,323 Psi.. On Perfs, 70.6 Bpm At 4,211 Psi., 11,896 Gals. Stage Into 4.0# 20/40 White Prop, 70.6 Bpm At 4,200 Psi.. On Perfs, 70.4 Bpm At 4,200 Psi., 12,339 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,274 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,200#, Total Clean - 135,598 Gals.. 3,229 Bbls.. Produced Water - 71,702 Gals.. 2% KCL - 61,934 Gals.. BWTR - 3,465 Bbls. Max. Rate - 70.7 Bpm Avg. Rate - 70.2 Bpm Max. Psi. - 5,479 Psi. Avg. Psi. - 4,516 Psi.
13:00	0.17	13:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
13:10	2.58	15:45	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Set CBP At 10,094'. 2,800 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 9,742 - 10,076'. 51 Holes. 1,600 Psi.. Chain Broke From Hydraulic Motor To WireLine Reel Coming Out Of Hole. Down 75 Minutes To Repair. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:45	0.09	15:50	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
15:50	1.25	17:05	FRAC	Frac. Job	<p>Frac Stage 4. Fluid System: Hybor G 16            Open Well, 1,553 Psi. ICP. BrokeDown At 10.7 Bpm And 4,178 Psi..            Pump 3900 Gals. 15% HCL And 102 Bio Balls, Attempt BallOut. Let Balls Fall.            Get Stabilized Injection Of 70.6 Bpm And 4,650 Psi., Get ISIP, 2,730 Psi.. 0.71 Psi./Ft. F.G.. 39/51 Holes.            Con't With SlickWater Pad, 48,226 Gals..            Stage Into Hybor Pad, 70.3 Bpm At 4,472 Psi..            On Perfs, 70.1 Bpm At 4,686 Psi., 12,076 Gals.            Stage Into 2.0# 20/40 White Prop, 70.1 Bpm At 4,761 Psi..            On Perfs, 70.2 Bpm At 4,240 Psi., 10,623 Gals.            Stage Into 3.0# 20/40 White Prop, 70.3 Bpm At 4,240 Psi..            On Perfs, 70.4 Bpm At 4,129 Psi., 20,101 Gals.            Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 4,055 Psi..            On Perfs, 70.3 Bpm At 3,898 Psi., 11,662 Gals.            Stage Into 4.0# 20/40 White Prop, 70.4 Bpm At 3,899 Psi..            On Perfs, 70.2 Bpm At 4,155 Psi., 8,356 Gals.            Stage Into Flush, Flush 15 Bbls. Over Bottom Perf..            Get ISDP, 3,161 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured.            Total 20/40 White Prop - 149,900#,            Total Clean - 136,092 Gals.. 3,240 Bbls..            Produced Water - 71,266 Gals..            2% KCL - 62,818 Gals..            BWTR - 3,463 Bbls.            Max. Rate - 70.4 Bpm            Avg. Rate - 70.2 Bpm            Max. Psi. - 4,795 Psi.            Avg. Psi. - 4,139 Psi.</p>
17:05	0.17	17:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:15	1.33	18:35	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'.            Drop Down To Depth, Set CBP At 9,710'. 2,900 Psi..            Perforate Stage 5 Wasatch/CR-1 Zone, 9,421 - 9,691'. 45 Holes. 1,900 Psi..            POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
18:35	11.42	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**5-2D-36 BTR 4/18/2013 06:00 - 4/19/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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.
06:00	0.09	06:05	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:05	0.25	06:20	FRAC	Frac. Job	<p>Acidize Stage 5.            Open Well, 2,033 Psi. ICP. BrokeDown At 8.8 Bpm And 3,450 Psi..            Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls.            Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume.            Get ISDP, 2,431 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured.            Total Clean - 25,249 Gals.. 601 Bbls..            BWTR - 601 Bbls.            Max. Rate - 56.0 Bpm            Avg. Rate - 40.3 Bpm            Max. Psi. - 4,193 Psi.            Avg. Psi. - 3,474 Psi.</p>
06:20	0.17	06:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:30	1.33	07:50	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 9,390'. 2,200 Psi.. Perforate Stage 6 UteLand Butte/Castle Peak Zone, 9,125 - 9,370'. 45 Holes. 1,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
07:50	0.08	07:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
07:55	0.42	08:20	FRAC	Frac. Job	Acidize Stage 6. Open Well, 1,217 Psi. ICP. BrokeDown At 4.2 Bpm And 1,611 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,848 Psi.. 0.64 Psi./Ft. F.G.. WSI And Secured. Total Clean - 25,066 Gals.. 597 Bbls.. BWTR - 597 Bbls. Max. Rate - 50.1 Bpm Avg. Rate - 34.4 Bpm Max. Psi. - 7,508 Psi. Avg. Psi. - 2,081 Psi.
08:20	0.17	08:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:30	1.25	09:45	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 9,100'. 1,800 Psi.. Perforate Stage 7 Castle Peak/Black Shale Zone, 8,809 - 9,080'. 45 Holes. 900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
09:45	0.25	10:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:00	0.33	10:20	FRAC	Frac. Job	Acidize Stage 7. Open Well, 250 Psi. ICP. BrokeDown At 8.4 Bpm And 2,379 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,092 Psi.. 0.67 Psi./Ft. F.G.. WSI And Secured. Total Clean - 25,000 Gals.. 595 Bbls.. BWTR - 595 Bbls. Max. Rate - 50.3 Bpm Avg. Rate - 36.7 Bpm Max. Psi. - 7,240 Psi. Avg. Psi. - 2,627 Psi.
10:20	0.34	10:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
10:40	1.16	11:50	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 8,750'. 1,900 Psi.. Bleed Pressure Off Well. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:50	2.67	14:30	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	Batch Wwater. Move Tanks Off Location. WSI And Secured.

**5-2D-36 BTR 4/19/2013 06:00 - 4/20/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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
07:00	1.50	08:30	RMOV	Rig Move	HSM. ROAD RIG TO LOCATIO. SPOT AND RUSU.
08:30	1.50	10:00	BOPI	Install BOP's	CHECK PRESSURE. ND FRAC VALVES. NU 7" 5K BOP AND HYDRIL. RU FLOOR. SPOT CATWALK.
10:00	1.00	11:00	DTIM	Downtime	WAIT ON FORKLIFT
11:00	2.00	13:00	GOP	General Operations	SET PIPE RACKS. UNLOAD 365-JTS 2-7/8" L-80 TBG. (SLOW DUE TO MUD)

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	4.00	17:00	RUTB	Run Tubing	MU 4-3/4" BIT, POBS, 1-JT, 2.31 XN. RIH AS PU 2-7/8" TBG TO TAG KILL PLUG AT 8750' WITH 276-JTS IN.
17:00	1.00	18:00	GOP	General Operations	RU DRLG EQUIP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

**5-2D-36 BTR 4/20/2013 06:00 - 4/21/2013 06:00**

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013509130000	Utah	Duchesne	Black Tail Ridge	PRODUCING	4,211.0	Initial Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	0.75	07:45	PTST	Pressure Test	OPEN WELL. FILL TBG AND CHECK FOR CIRC. PRES TEST TO 2500 PSI.
07:45	6.00	13:45	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS #1 AT 8750'. C/O 0' SAND. D/O IN 5 MIN. FCP 100 PSI. RIH. #2 AT 9100'. C/O 0' SAND. D/O IN 5 MIN. FCP 200 PSI. RIH. #3 AT 9390'. C/O 0' SAND. D/O IN 15 MIN. FCP 250 PSI. RIH. #4 AT 9710'. C/O 0' SAND. D/O IN 11 MIN. FCP 450 PSI. RIH. #5 AT 10,094'. C/O 8' SAND. D/O IN 5 MIN. FCP 350 PSI. RIH. #6 AT 10,410'. C/O 16' SAND. D/O IN 19 MIN. FCP 450 PSI. RIH. #7 AT 10,708'. C/O 100' SAND. D/O IN 15 MIN. FCP 450 PSI. RIH. FC AT 11,176'. C/O 206' SAND. D/O FC. D/O 33' CMT. PBSD AT 11,209' (152' RATHOLE) WITH 352-JTS IN.
13:45	1.50	15:15	CLN	Clean Out Hole	CIRCULATE CLEAN. PUMP 3.5 BPM. RETURN 4.5 BPM. W/ 400 PSI ON CSG.
15:15	1.00	16:15	PULT	Pull Tubing	RD PWR SWIVEL. POOH S LD 76-JTS TBG.
16:15	0.50	16:45	GOP	General Operations	PU 7" 5K HANGER. LUB IN AND LAND HANGER.  TBG DETAIL KB 24.00 7" 5K HANGER 275-JTS 2-7/8" L-80 TBG 2.31 XN NIPPLE 1 JT 2-7/8" L-80 TBG POBS
16:45	1.00	17:45	GOP	General Operations	RD FLOOR. ND BOP. NU WH. POBS AT 2100 PSI. PLUMB IN FLOW LINES.
17:45	1.75	19:30	SRIG	Rig Up/Down	RDSU. FLOW TO FB TANKS TO GET WTR BACK. BATTERY NOT READY, KINDER MORGAN GAS LINE TEST, THEN PURGE. SHUT WELL IN, MAKING GAS AND OIL. TURN OVER TO FBC. WILL OPEN WHEN BATTERY READY. CREW TRAVEL. ROAD RIG OFF LOCATION.
19:30	10.50	06:00	FBCK	Flowback Well	WELL TURNED OVER TO FBC AND PRODUCTION.

<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> 1420H626511
		<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> 5-2D-36 BTR	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43013509130000	
<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> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2373 FNL 0542 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNW Section: 02 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		
<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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/24/2013	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<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"/> 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"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Earned Lease"/>	
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 1420H626511.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          July 16, 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	

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resv. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator BILL BARRETT CORPORATION Contact: CHRISTINA HIRTLER E-Mail: chirtler@billbarrettcorp.com			8. Lease Name and Well No. BTR 5-2D-36		
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		3a. Phone No. (include area code) Ph: 303-312-8597	9. API Well No. 43-013-50913		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SWNW 2373FNL 0542FWL At top prod interval reported below SWNW 2352FNL 1237FWL At total depth SWNW 2418FNL 1251FWL			10. Field and Pool, or Exploratory ALTAMONT		
14. Date Spudded 02/08/2013			15. Date T.D. Reached 03/19/2013	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/20/2013	
18. Total Depth: MD 11275 TVD 11231	19. Plug Back T.D.: MD 11177 TVD 11133	20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL,GR,CCL,MUD			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> 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	104	80				
12.250	9.625 J-55	36.0	0	4211	4207	980	473	0	
8.750	5.500 HCP110	17.0	0	11275	11265	1625	528	2918	

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	9308							

25. Producing Intervals			26. Perforation Record			
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	8809	9612	8809 TO 9612	0.380	126	OPEN
B) WASATCH	9655	11057	9655 TO 11057	0.380	201	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
8809 TO 9612	GREEN RIVER SEE ATTACHED STAGES 5-7
9655 TO 11057	WASATCH SEE ATTACHED STAGES 1-5

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
04/20/2013	04/22/2013	24	→	465.0	459.0	683.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Fhwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	400	1300.0	→	465	459	683	987	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. Fhwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)  
ELECTRONIC SUBMISSION #207744 VERIFIED BY THE BLM WELL INFORMATION SYSTEM  
\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

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	5026
				MAHOGANY	5894
				TGR3	7307
				DOUGLAS CREEK	8104
				BLACK SHALE	8607
				CASTLE PEAK	8859
				UTELAND BUTTE	9205
				WASATCH	9650

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. Conductor cemented with grout. Attached is Treatment data, Logs, and End of Well Report. First Gas Sales were on 4/20/2013 first oil sales were on 4/23/2013.

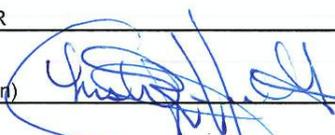
33. Circle enclosed attachments:

- 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 #207744 Verified by the BLM Well Information System.  
 For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) CHRISTINA HIRTLER Title ADMINISTRATIVE ASSISTANT

Signature  (Electronic Submission) Date 05/16/2013

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.

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

## 5-2D-36 BTR Completion Report Continued\*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>Gal Total Fluid</u>	<u>lbs 20/40 White Sand</u>	<u>gal 20/40 CRC</u>	<u>gal 15% HCl Acid</u>
1	2890		90220	4163 w/ 102 balls
2	3271		148500	3900 w/ 90 balls
3	3233	150200		3928 w/ 90 balls
4	3243	149900		4003 w/ 102 balls
5	601			15150 w/ 90 balls
6	591			15051 w/ 90 balls
7	586			15021 w/ 90 balls

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

# Bill Barrett Corp

Duchesne County, UT (NAD 1927)

Sec. 2-T3S-R6W

5-2D-36 BTR

Plan A

Design: Sperry Final Surveys

## Sperry Drilling Services

### Standard Report

14 May, 2013

Well Coordinates: 699,416.00 N, 2,268,733.19 E (40° 14' 58.62" N, 110° 32' 13.98" W)

Ground Level: 6,219.00 ft

Local Coordinate Origin:

Centered on Well 5-2D-36 BTR

Viewing Datum:

RKB 24' @ 6243.00ft (H&P 319)

TVDs to System:

N

North Reference:

True

Unit System:

API -US Survey Feet -Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

**HALLIBURTON**

## SPERRY-SUN DRILLING SERVICES

### CERTIFIED SURVEY WORK SHEET

OPERATOR:	Bill Barrett Corp.
WELL:	5-2D-36 BTR
FIELD:	Black Tail Ridge
RIG:	H&P 319
LEGALS:	Sec. 2-T3S-R6W
COUNTY:	Uinta
STATE:	Utah
CAL. METHOD:	Min. Curv.
MAG. DECL. APPLIED:	11.35°
VERTICAL SEC. DIR. :	89.999°

SSDS Job Number :	900198591
Start Date of Job :	3/3/2013
End Date of Job :	3/20/2013
Lead Directional Driller:	Steve Krueger
	Paul Pongratz
Other SSDS DD's :	
SSDS MWD Engineers :	Alex Weatherly

Geo Pilot Engineer :

	Main Hole =====>	1st Side Track =====>	2nd Side Track =====>	3rd Side Track =====>	4th Side Track =====>
Surface Casing	4206'	Tie On	Tie On	Tie On	Tie On
Intermediate Casing	SS	MWD			
	SS				
KOP Depth/Sidetrack MD	104'	KOP	KOP-ST1	KOP-ST2	KOP-ST3
MWD Tie-on	0'				
First MWD Survey Depth	162'	MWD	MWD	MWD	MWD
Last MWD Survey Depth	11221'	MWD	MWD	MWD	MWD
Bit Extrapolation @ TD	11275'	T.D.	T.D.	T.D.	T.D.

The following Sperry Drilling Services personnel, certify the above survey information to be accurate to the best of our knowledge:

Print Name :	Steve Krueger	Print Name :	Paul Pongratz	Print Name :	
Sign Name :	<i>Steve Krueger</i>	Sign Name :	<i>Paul Pongratz</i>	Sign Name :	
Print Name :	Alex Weatherly	Print Name :		Print Name :	
Sign Name :	<i>Alex Weatherly</i>	Sign Name :		Sign Name :	

Examples of Survey Types:	TieOn	Tie On to Surface Casing (Assumed Vertical), Tie On to existing MWD Survey (prior drilled hole)
	MWD	Sperry-Sun Drilling Services (SSDS) Measurement While Drilling (MWD) Survey's
	ESS	Sperry-Sun Drilling Services (SSDS) Electronic Survey System (ESS) Survey's
	Gyro	Gyro Survey's ; Provided by third party vendor, or by Sperry-Sun Drilling Services (SSDS)
	SS	Single Shot (SS) Survey's ; Provided by Sperry-Sun Drilling Services (SSDS) or third party vendor.

## Design Report for 5-2D-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
162.00	0.21	102.370	162.00	-0.06	0.29	0.29	0.13
First Sperry MWD Survey @ 162.00' MD							
256.00	0.20	118.940	256.00	-0.18	0.60	0.60	0.06
340.00	0.40	142.270	340.00	-0.48	0.91	0.91	0.27
431.00	0.51	107.800	431.00	-0.86	1.49	1.49	0.32
522.00	0.35	111.050	521.99	-1.08	2.13	2.13	0.18
613.00	0.44	140.960	612.99	-1.45	2.61	2.61	0.24
708.00	0.67	91.450	707.99	-1.75	3.40	3.40	0.54
802.00	0.49	85.760	801.98	-1.73	4.35	4.35	0.20
896.00	0.33	65.610	895.98	-1.59	5.00	5.00	0.23
991.00	0.20	332.250	990.98	-1.33	5.17	5.17	0.42
1,085.00	0.05	319.190	1,084.98	-1.16	5.07	5.07	0.16
1,179.00	0.17	54.790	1,178.98	-1.05	5.15	5.15	0.19
1,273.00	0.97	84.120	1,272.97	-0.88	6.06	6.06	0.88
1,368.00	1.05	87.880	1,367.96	-0.77	7.73	7.73	0.11
1,462.00	1.78	96.950	1,461.93	-0.91	10.04	10.04	0.81
1,556.00	2.15	98.600	1,555.87	-1.35	13.23	13.23	0.40
1,650.00	1.64	93.970	1,649.82	-1.71	16.32	16.32	0.57
1,744.00	1.60	86.780	1,743.78	-1.73	18.97	18.97	0.22
1,839.00	1.81	88.010	1,838.74	-1.60	21.79	21.79	0.22
1,933.00	1.31	83.750	1,932.71	-1.44	24.34	24.34	0.55
2,027.00	0.85	88.570	2,026.69	-1.30	26.11	26.11	0.50
2,121.00	0.27	343.760	2,120.69	-1.07	26.74	26.74	1.02
2,216.00	0.32	37.300	2,215.69	-0.64	26.84	26.84	0.28
2,310.00	0.17	147.570	2,309.69	-0.55	27.08	27.08	0.44
2,404.00	0.20	38.140	2,403.68	-0.54	27.25	27.25	0.32
2,498.00	0.66	80.990	2,497.68	-0.33	27.89	27.89	0.56
2,593.00	1.04	95.110	2,592.67	-0.32	29.29	29.29	0.45
2,687.00	0.84	67.420	2,686.66	-0.13	30.77	30.77	0.52
2,781.00	1.08	82.550	2,780.65	0.25	32.29	32.29	0.37
2,876.00	2.03	109.150	2,875.61	-0.19	34.76	34.76	1.23
2,970.00	2.12	100.080	2,969.55	-1.04	38.05	38.05	0.36
3,065.00	1.85	43.430	3,064.50	-0.23	40.83	40.83	2.00
3,159.00	2.59	53.470	3,158.43	2.13	43.58	43.58	0.89
3,253.00	3.00	65.420	3,252.32	4.42	47.53	47.53	0.76
3,348.00	3.87	74.230	3,347.15	6.33	52.87	52.87	1.07
3,442.00	4.09	92.090	3,440.93	7.07	59.28	59.28	1.33
3,536.00	4.70	89.820	3,534.65	6.96	66.48	66.48	0.67
3,631.00	5.17	84.060	3,629.30	7.41	74.63	74.63	0.72
3,725.00	5.73	83.120	3,722.87	8.41	83.50	83.50	0.60
3,819.00	6.03	83.210	3,816.38	9.56	93.06	93.06	0.32
3,913.00	6.60	82.370	3,909.81	10.86	103.32	103.32	0.61
4,008.00	7.50	86.030	4,004.09	12.01	114.91	114.91	1.06
4,102.00	7.04	90.560	4,097.33	12.38	126.79	126.79	0.78
4,134.00	7.01	88.140	4,129.09	12.43	130.71	130.71	0.93
4,229.00	6.88	88.530	4,223.39	12.76	142.19	142.19	0.15
4,292.00	7.07	88.290	4,285.93	12.97	149.84	149.84	0.31
4,386.00	7.15	84.490	4,379.21	13.71	161.44	161.44	0.51
4,480.00	6.85	84.060	4,472.51	14.85	172.84	172.84	0.32

**HALLIBURTON**

Duchesne County, UT (NAD 1927)

## Design Report for 5-2D-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)
4,575.00	6.67	92.580	4,566.85	15.19	183.99	183.99	1.07
4,669.00	7.55	95.840	4,660.12	14.31	195.58	195.58	1.03
4,763.00	7.62	89.330	4,753.30	13.76	207.96	207.96	0.92
4,857.00	7.97	81.200	4,846.44	14.83	220.63	220.63	1.23
4,952.00	8.92	85.160	4,940.41	16.46	234.48	234.48	1.17
5,046.00	9.79	87.720	5,033.16	17.39	249.73	249.73	1.03
5,140.00	10.36	88.950	5,125.71	17.86	266.16	266.16	0.65
5,234.00	8.87	90.800	5,218.38	17.92	281.86	281.86	1.62
5,329.00	8.03	91.440	5,312.35	17.65	295.82	295.82	0.89
5,423.00	7.09	93.590	5,405.53	17.12	308.17	308.17	1.04
5,517.00	6.99	96.640	5,498.83	16.09	319.64	319.64	0.41
5,612.00	8.37	97.820	5,592.97	14.48	332.23	332.23	1.46
5,706.00	8.73	94.000	5,685.93	13.06	346.13	346.13	0.72
5,800.00	8.67	88.500	5,778.85	12.74	360.33	360.33	0.89
5,895.00	9.43	85.340	5,872.66	13.56	375.24	375.24	0.96
5,989.00	9.08	88.690	5,965.44	14.36	390.33	390.33	0.68
6,083.00	8.60	90.780	6,058.32	14.43	404.78	404.78	0.61
6,178.00	7.84	91.760	6,152.35	14.14	418.35	418.36	0.81
6,272.00	7.73	82.000	6,245.49	14.82	431.02	431.02	1.41
6,366.00	8.23	83.060	6,338.57	16.51	443.96	443.96	0.55
6,460.00	7.67	87.120	6,431.67	17.64	456.91	456.91	0.84
6,555.00	8.33	87.180	6,525.75	18.30	470.11	470.11	0.69
6,649.00	9.53	82.110	6,618.61	19.70	484.62	484.62	1.53
6,743.00	8.76	82.840	6,711.41	21.66	499.43	499.43	0.83
6,837.00	8.29	90.230	6,804.38	22.53	513.31	513.31	1.27
6,932.00	8.08	85.460	6,898.41	23.03	526.81	526.82	0.75
7,026.00	8.64	74.870	6,991.42	25.39	540.22	540.22	1.74
7,120.00	7.03	80.470	7,084.54	28.19	552.71	552.71	1.89
7,215.00	6.47	75.850	7,178.88	30.46	563.63	563.63	0.82
7,309.00	7.54	77.820	7,272.18	33.06	574.79	574.80	1.17
7,403.00	7.61	84.590	7,365.36	34.94	587.02	587.02	0.95
7,497.00	7.52	83.740	7,458.54	36.20	599.33	599.33	0.15
7,592.00	6.72	85.470	7,552.81	37.32	611.05	611.05	0.87
7,686.00	5.36	89.230	7,646.28	37.81	620.92	620.92	1.51
7,780.00	4.35	92.720	7,739.94	37.70	628.87	628.88	1.12
7,874.00	5.04	89.230	7,833.63	37.59	636.56	636.57	0.79
7,968.00	5.30	90.430	7,927.25	37.61	645.03	645.04	0.30
8,063.00	5.57	88.650	8,021.82	37.69	654.03	654.03	0.34
8,157.00	5.76	92.570	8,115.36	37.58	663.30	663.31	0.46
8,251.00	4.96	99.920	8,208.95	36.67	672.02	672.02	1.12
8,345.00	4.45	100.540	8,302.63	35.30	679.61	679.61	0.55
8,439.00	3.46	111.260	8,396.41	33.61	685.84	685.84	1.31
8,534.00	2.71	133.690	8,491.27	31.02	690.13	690.13	1.48
8,628.00	2.41	152.990	8,585.18	27.72	692.64	692.64	0.97
8,722.00	2.15	167.240	8,679.11	24.24	693.92	693.92	0.66
8,817.00	2.10	168.570	8,774.04	20.80	694.66	694.66	0.07
8,911.00	2.02	159.790	8,867.98	17.55	695.58	695.58	0.35
9,005.00	1.63	163.620	8,961.93	14.72	696.53	696.53	0.43
9,099.00	1.14	155.370	9,055.91	12.58	697.29	697.29	0.56
9,193.00	0.71	108.200	9,149.89	11.55	698.23	698.24	0.89
9,288.00	0.76	113.330	9,244.89	11.12	699.37	699.37	0.09



Design Report for 5-2D-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)
9,382.00	0.68	109.500	9,338.88	10.69	700.47	700.47	0.10
9,476.00	0.71	104.520	9,432.87	10.35	701.56	701.56	0.07
9,570.00	0.65	139.330	9,526.87	9.80	702.47	702.47	0.44
9,665.00	0.75	145.520	9,621.86	8.88	703.17	703.18	0.13
9,759.00	0.90	151.860	9,715.85	7.72	703.87	703.87	0.19
9,853.00	0.86	170.190	9,809.84	6.38	704.34	704.34	0.30
9,947.00	0.92	175.190	9,903.83	4.93	704.52	704.52	0.10
10,042.00	0.65	149.310	9,998.82	3.71	704.86	704.86	0.46
10,136.00	0.82	165.180	10,092.81	2.60	705.31	705.31	0.28
10,230.00	1.18	172.520	10,186.80	0.99	705.60	705.60	0.41
10,325.00	1.56	168.740	10,281.77	-1.25	705.98	705.98	0.41
10,419.00	1.75	171.970	10,375.73	-3.93	706.43	706.43	0.23
10,513.00	1.93	172.400	10,469.68	-6.92	706.84	706.84	0.19
10,607.00	2.16	174.790	10,563.62	-10.25	707.21	707.21	0.26
10,701.00	2.32	174.960	10,657.55	-13.91	707.54	707.54	0.17
10,796.00	2.59	173.750	10,752.46	-17.96	707.95	707.94	0.29
10,890.00	2.79	177.710	10,846.36	-22.35	708.27	708.27	0.29
10,984.00	3.35	177.660	10,940.22	-27.38	708.47	708.47	0.60
11,079.00	3.34	179.500	11,035.06	-32.93	708.61	708.61	0.11
11,221.00	3.67	176.650	11,176.80	-41.60	708.91	708.91	0.26
Last Sperry MWD Survey @ 11221.00' MD							
11,275.00	3.67	176.650	11,230.68	-45.05	709.11	709.11	0.00
Straight Line Projection to TD @ 11275.00' MD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
162.00	162.00	-0.06	0.29	First Sperry MWD Survey @ 162.00' MD
11,221.00	11,176.80	-41.60	708.91	Last Sperry MWD Survey @ 11221.00' MD
11,275.00	11,230.68	-45.05	709.11	Straight Line Projection to TD @ 11275.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	+N/-S (ft)	+E/-W (ft)	Start TVD (ft)
Target	5-2D-36 BTR Plan A Rev 1_BHL Tgt	89.999	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
162.00	11,275.00	Sperry MWD Surveys	MWD



Design Report for 5-2D-36 BTR –Sperry Final Surveys

Targets

Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E /-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
5-2D-36 BTR Plan A R -actual wellpath misses target center by 34.56ft at 11084.89ft MD (11040.94 TVD, -33.27 N, 708.61 E) -Point	0.00	0.00	11,043.00	0.02	699.54	699,423.55	2,269,432.64	40° 14' 58.621 N	110° 32' 4.960 W
5-2D-36 BTR Plan A R -actual wellpath misses target center by 36.60ft at 8432.13ft MD (8389.55 TVD, 33.76 N, 685.44 E) -Rectangle (sides W200.00 H200.00 D2,655.00)	0.00	0.00	8,388.00	0.02	699.54	699,423.55	2,269,432.63	40° 14' 58.621 N	110° 32' 4.960 W
5-2D-36 BTR_S HL -actual wellpath hits target center -Point	0.00	0.00	0.00	0.02	0.00	699,416.02	2,268,733.19	40° 14' 58.621 N	110° 32' 13.981 W

**HALLIBURTON**

**North Reference Sheet for Sec. 2-T3S -R6W -5-2D-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' @ 6243.00ft (H&P 319). Northing and Easting are relative to 5-2D-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: 0.99992496

Grid Coordinates of Well: 699,416.00 ft N, 2,268,733.19 ft E  
 Geographical Coordinates of Well: 40° 14' 58.62" N, 110° 32' 13.98" W  
 Grid Convergence at S surface is: 0.62°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,275.00ft  
 the Bottom Hole Displacement is 710.54ft in the Direction of 93.64° (True).

Magnetic Convergence at surface is: -11.00° (31J anuary 2011, , BGGM2010)

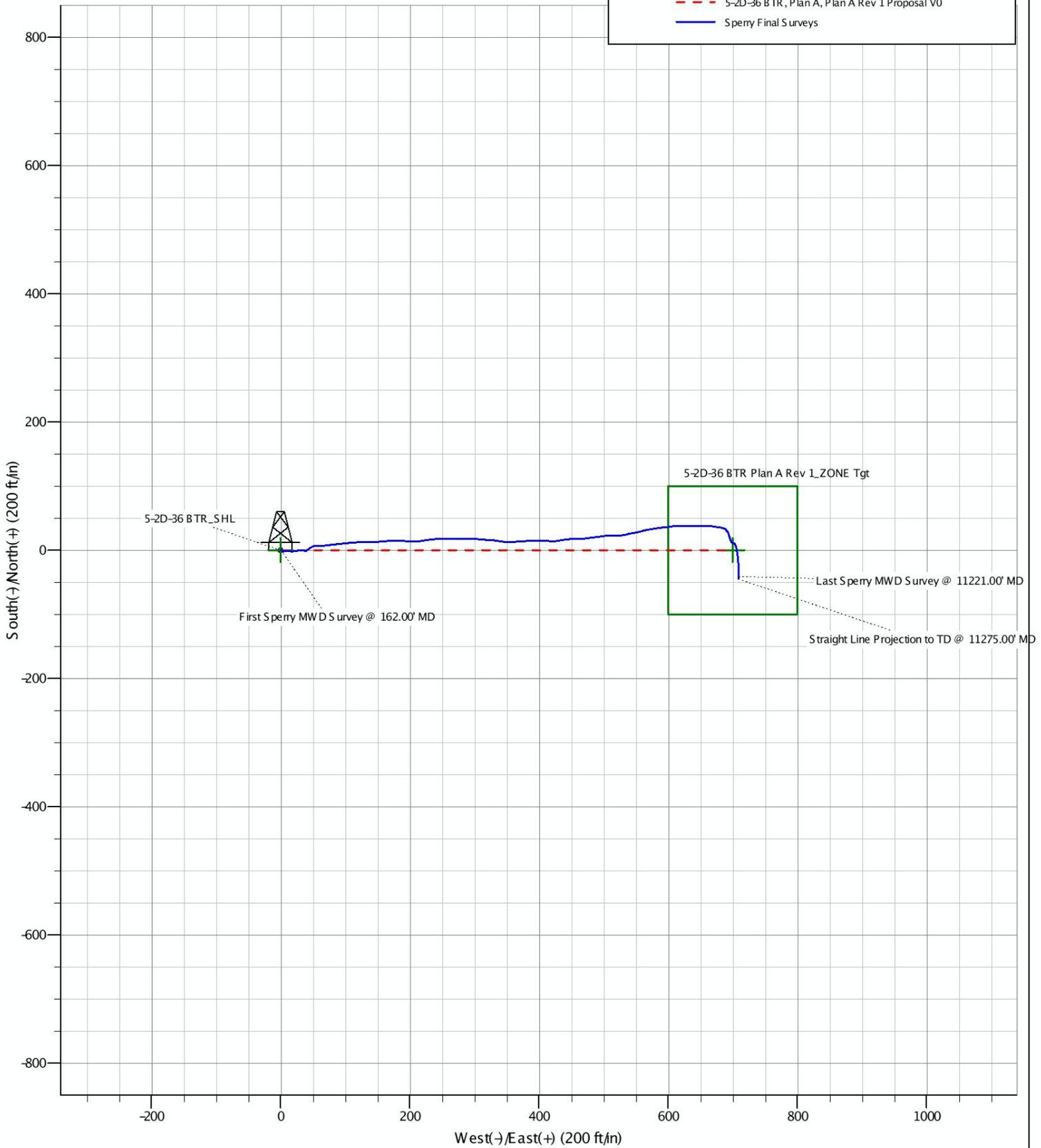
Magnetic Model:	BGGM2010
Date:	31-Jan-11
Declination:	11.62°
Inclination/Dip:	65.89°
Field Strength:	52315

Grid North is 0.62° East of True North (Grid Convergence)  
 Magnetic North is 11.62° East of True North (Magnetic Declination)  
 Magnetic North is 11.00° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0.62°  
 To convert a Magnetic Direction to a True Direction, Add 11.62° East  
 To convert a Magnetic Direction to a Grid Direction, Add 11.00°

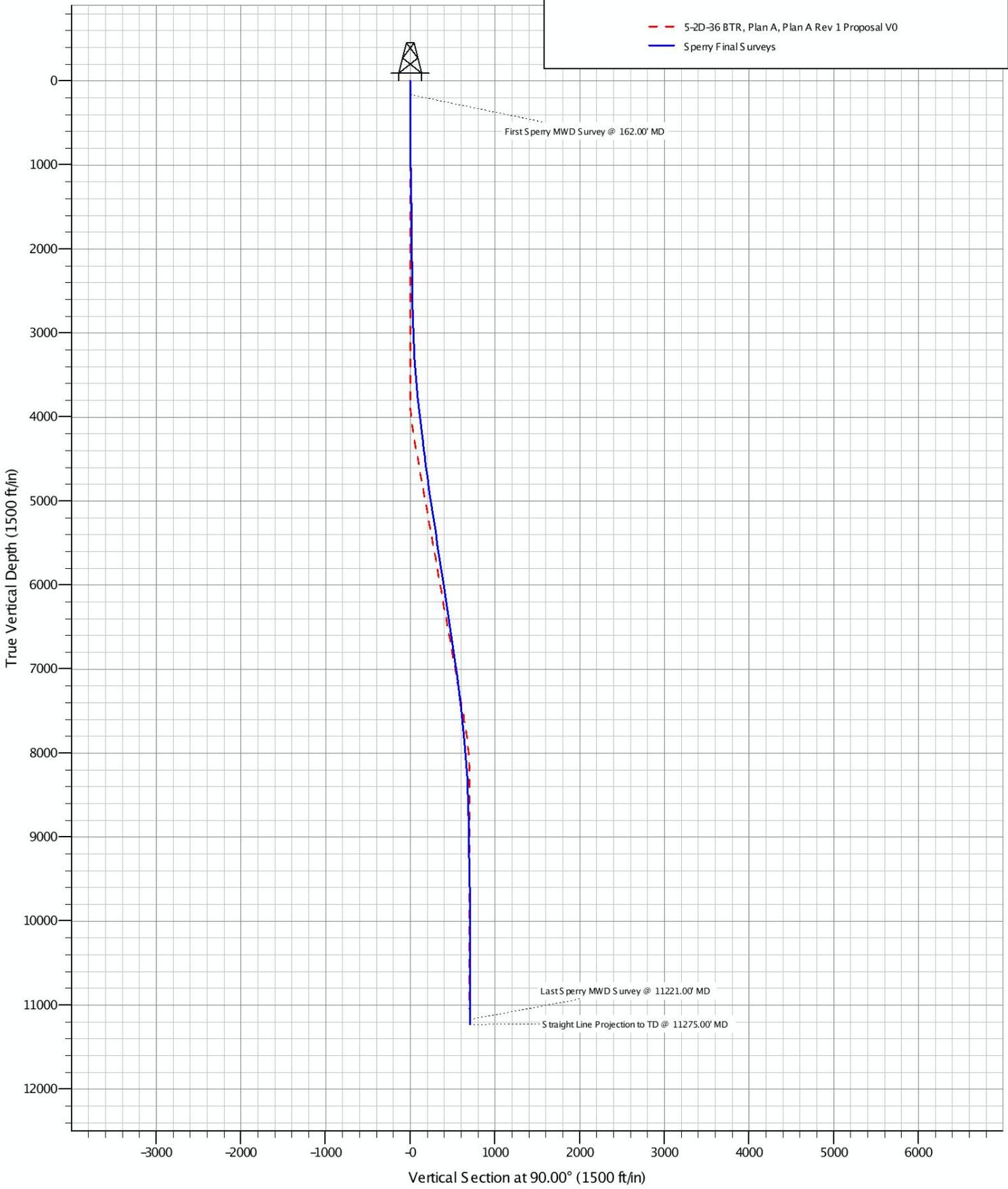
**LEGEND**

- 5-2D-36 BTR, Plan A, Plan A Rev 1 Proposal V0
- Sperry Final Surveys



LEGEND

- 5-2D-36 BTR, Plan A, Plan A Rev 1 Proposal V0
- Sperry Final Surveys





**5-2D-36 BTR 3/1/2013 12:00 - 3/2/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	6.00	18:00	1	RIGUP & TEARDOWN	RIG DN ROTARY TOOLS , LOWER DERRICK, REPLACE ALL VALVES AND SEAT IN PUMPS ,
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WO DAYLIGHT

**5-2D-36 BTR 3/2/2013 06:00 - 3/3/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RIG DN, MOVE, RIG UP, ALL OF RIG SET IN. DERRICK ON FLOOR.
18:00	12.00	06:00	1	RIGUP & TEARDOWN	WO DAY LIGHT

**5-2D-36 BTR 3/3/2013 06:00 - 3/4/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	RAISE DERRICK. TRUCKS RELEASED @ 12:00. RIG UP ROTARY TOOLS
18:00	2.50	20:30	14	NIPPLE UP B.O.P	NIPPLE UP CONDUCTOR.
20:30	2.50	23:00	20	DIRECTIONAL WORK	PICK UP BHA
23:00	7.50	06:30	2	DRILL ACTUAL	DRLG 12 1/4" SURFACE HOLE. F/104' TO 848' (744' IN 705 HR = 99.2 FPH) ROTATING. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 FIXED 8.30' BTB.2.99' TOPLAN.

**5-2D-36 BTR 3/4/2013 06:00 - 3/5/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.75	16:45	2	DRILL ACTUAL	DRLG 12 1/4" HOLE F 848' TO 1727' (879' IN 10.75 HR = 81.8 FPH) SLIDE: 58' IN 1.75 HR = 33.1 FPH, ROATATE: 821' IN 9 HR = 91.2 FPH. MM 8" HUNTING 7/8 LOBE 3.4 STAGE .09 RPG 1.5 FIXED 8.30' BTB.2.99' TOPLAN.
16:45	0.50	17:15	7	LUBRICATE RIG	RIG SERVICE
17:15	12.75	06:00	2	DRILL ACTUAL	DRLG F/1727 TO 2513' ( 786' IN 12.75 HR 61.6 FPH) SLIDE:50' IN 2.25 HR = 22.2 FPH, ROTATE: 736' IN 10.25 HR = 71.8 FPH. 27.25' F/PLAN. LOST RETURNS @ 2077' PUMP 2 40% LCM SWEEPS GET RETURNS BACK. STILL GOING OVER SHAKERS.

**5-2D-36 BTR 3/5/2013 06:00 - 3/6/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRLG F/2513' TO 2858' (345' IN 8.5 HR = 40.5 FPH) SLIDE: 45' IN 1.75 HR = 25.7 FPH, ROTATE: 300' IN 6.75 HR = 44.4 FPH. LOST RETURNS @ 2796' SLOW PUMP TO 630 G/MIN. SWEEP W/40% LCM. BY PASS SHAKERS. STILL ONLY GETTING 80% RETURNS.
14:30	1.00	15:30	5	COND MUD & CIRC	MIX AND PUMP 40% LCM PILL. DISPLACE W/ DRY SLUG AND TRIP F/ BIT
15:30	0.75	16:15	6	TRIPS	TRIP F/ BIT #2
16:15	0.50	16:45	7	LUBRICATE RIG	RIG SERVICE. FIX LINK TILT.
16:45	2.50	19:15	6	TRIPS	TRIP F/ BIT
19:15	10.75	06:00	2	DRILL ACTUAL	DRLG F/2858 TO 3205' (347' IN 10.75 HR = 32.3 FPH) SLIDE: 77' IN 5 HR = 15.4 FPH, ROTATE: 270' IN 5.75 HR = 60 FPH. LOST RETURNS @ 3017' MIX LCM RAISE LCM TO 15% SHAKERS STILL BY PASSED.

**5-2D-36 BTR 3/6/2013 06:00 - 3/7/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3205-3236'. ROP 41.3 FPH.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:45	1.00	07:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3236-3256'. ROP 20 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3256-3283'. ROP 54 FPH.
08:15	0.75	09:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3283-3298'. ROP 20 FPH.
09:00	0.75	09:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3298-3330'. ROP 42.7 FPH.
09:45	1.25	11:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3330-3355'. ROP 20 FPH.
11:00	0.50	11:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3355-3377'. ROP 44 FPH.
11:30	1.00	12:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3377-3392'. ROP 15 FPH.
12:30	1.00	13:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3392-3425'. ROP 33 FPH.
13:30	1.00	14:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3425-3445'. ROP 20 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3445-3472'. ROP 54 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3472-3492'. ROP 13.3 FPH.  SCREEN UP SHAKERS AT 16:30 HRS, 3500'.
16:30	1.00	17:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3492-3519'. ROP 27 FPH.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	1.00	19:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3519-3539'. ROP 20 FPH.
19:00	0.50	19:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3539-3566'. ROP 54 FPH.
19:30	1.50	21:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3566-3586'. ROP 13.3 FPH.
21:00	0.50	21:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3586-3617'. ROP 62 FPH.
21:30	1.25	22:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3617-3637'. ROP 16 FPH.
22:45	0.50	23:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3637-3660'. ROP 46 FPH.
23:15	1.00	00:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3660-3680'. ROP 20 FPH.
00:15	0.50	00:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3680-3706'. ROP 52 FPH.
00:45	1.00	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3706-3731'. ROP 25 FPH.
01:45	0.25	02:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3731-3755'. ROP 96 FPH.
02:00	1.25	03:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3755-3780'. ROP 20 FPH.
03:15	0.50	03:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3780-3801'. ROP 42 FPH.
03:45	1.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3801-3826'. ROP 20 FPH.
05:00	0.50	05:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3826-3849'. ROP 46 FPH.
05:30	0.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3849-3857'. ROP 16 FPH.

**5-2D-36 BTR 3/7/2013 06:00 - 3/8/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3857-3874'. ROP 22.7 FPH.
06:45	0.75	07:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3874-3896'. ROP 29.3 FPH.
07:30	1.25	08:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3896-3921'. ROP 20 FPH.
08:45	0.75	09:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3921-3942'. ROP 28 FPH.
09:30	1.25	10:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3942-3967'. ROP 20 FPH.
10:45	0.75	11:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 3967-3990'. ROP 30.7 FPH.
11:30	0.50	12:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
12:00	5.25	17:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 3990-4015'. ROP 4.8 FPH.  #2 PUMP DOWN, 3990-4015', 11:30-16:45 HRS, ROP 3.8 FPH.
17:15	0.75	18:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4015-4037'. ROP 29.3 FPH.
18:00	1.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4037-4061'. ROP 19.2 FPH.
19:15	0.75	20:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4061-4086'. ROP 33.3 FPH.
20:00	3.75	23:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4086-4111'. ROP 6.7 FPH.  #1 PUMP DOWN 20:30-23:15 HRS, 4088-4103'.
23:45	0.50	00:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4111-4132'. ROP 42 FPH.
00:15	1.50	01:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4132-4157'. ROP 16.7 FPH.
01:45	1.00	02:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 4157-4181'. ROP 24 FPH.
02:45	2.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 4181-4211' (TD). ROP 13.3 FPH.
05:00	1.00	06:00	5	COND MUD & CIRC	PUMP 70 BBL HIVIS LCM SWEEP & CIRCULATE HOLE CLEAN.

**5-2D-36 BTR 3/8/2013 06:00 - 3/9/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	POH TO 1916'. TIGHT AT 3045, CIRC/BACKREAM OUT 3050-3033'.
08:00	1.50	09:30	6	TRIPS	RIH & PRECAUTIONARY WASH LAST STAND DOWN. HOLE GOOD.
09:30	3.75	13:15	5	COND MUD & CIRC	PUMP 70 BBL HVIS LCM SWEEP & CIRCULATE 1.5 BOTTOMS UP. LOST RETURNS WHILE CIRCULATING OUT SWEEP AT 10:00 HRS W SWEEP AT ~1700'. SLOW PUMPS TO 315 GPM & MIX LCM & BYPASS SHAKERS. REDUCE PUMPS FURTHER TO 225 GPM. MUD LEVEL OUT OF SIGHT. OBSERVED RETURNS AT 11:15 HRS. CONTINUE TO CIRCULATE BUILDING VIS & ADDING LCM. STAGE UP PUMPS TO 585 GPM W ~90% RETURNS.
13:15	4.25	17:30	6	TRIPS	POH TO RUN SURFACE CASING. LAY DOWN 8" DC & SPERRY TOOLS. BIT #2 COND: 1-3-BT-S N-X-I-CT-TD.
17:30	1.25	18:45	12	RUN CASING & CEMENT	HELD PJSM. CLEAN UP RIG FLOOR & INSTALL HYDRAULIC SLIPS. RIG UP WEATHERFORD CASING TOOLS.
18:45	5.75	00:30	12	RUN CASING & CEMENT	MAKE UP & THREADLOCK 1JT SHOE TRACK. RUN TOTAL OF 96JTS 9 5/8, 36#, J55, LTC, R3 CASING. LAND SHOE @ 4207' & FLOAT COLLAR @ 4161'. NO RETURNS AFTER SHOE AT 1580'. FILL CASING EVERY 5 JTS W CLEAN MUD.
00:30	4.25	04:45	5	COND MUD & CIRC	FILL CASING & CASING PLUGGED. UNPLUG W /1200 PSI.  CIRC CASING W/O RETURNS W /20% LCM IN MUD. MILKING CASING W /112 GPM ATTEMPTING TO REGAIN RETURNS. BUILDING VOLUME. MUD LEVEL OUT OF SIGHT. HOLE FILLED & OBSERVED SLIGHT RETURNS AT 01:15 HRS. 25 BPH LOSSES (95% RETURNS) AT 03:15 HRS W /382 GPM.
04:45	0.50	05:15	12	RUN CASING & CEMENT	HELD PJSM. LAND CASING, REMOVE CIRC SWEDGE & INSTALL CEMENT HEAD.
05:15	0.75	06:00	12	RUN CASING & CEMENT	COMMENCE CEMENT JOB. DETAILS ON NEXT REPORT.

<b>5-2D-36 BTR 3/9/2013 06:00 - 3/10/2013 06:00</b>							
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion	

Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	12	RUN CASING & CEMENT	TEST LINE TO 2000 PSI. HOWCO PUMPED 20 BBL WATER, 40 BBL SUPER FLUSH 101 @ 10 PPG, 20 BBL WATER, 740 SX (416 BBL) LEAD @ 11 PPG, 240 SX (57 BBL) TAIL @ 14.8 PPG. DROP TOP PLUG & DISPLACED W /322 BBL 8.7 PPG MUD. BUMPED PLUG W /1100 PSI OVER FDP, TOTAL PRESSURE 1600 PSI & HELD 10 MIN. BLEED OFF 2 BBL & FLOATS HELD.  LOST RETURNS AT START OF DISPLACEMENT, 322 BBL LOST. NO CEMENT TO SURFACE. CIP @ 08:10 HRS. IT APPEARS CEMENT TOP WAS AT ~1550' WHEN RETURNS WERE LOST.
08:30	2.75	11:15	13	WAIT ON CEMENT	RIG DOWN HOWCO CEMENT HEAD & LINES.  WOC.
11:15	4.00	15:15	14	NIPPLE UP B.O.P	SLACK OFF CASING & LAY DOWN RISER. DRAIN/CUT CASING. INSTALL CASING HEAD & TEST TO 1400 PSI W/NITROGEN.
15:15	1.00	16:15	12	RUN CASING & CEMENT	RIG UP HOWCO, RUN ONE JT 1" PIPE INTO 9 5/8 X 16" ANNULUS. TAGGED UP AT 24'. PERFORM TOP CEMENT JOB W /10 BBL CLASS G CEMENT + 2% CaCl2.
16:15	3.00	19:15	14	NIPPLE UP B.O.P	NIPPLE UP BOPE.
19:15	3.75	23:00	15	TEST B.O.P	RIG UP TESTERS & TEST BOPE. RAMS, VALVES, CHOKE MANIFOLD & CHOKE TO 250/5000 PSI FOR 5/10 MIN. KELLY VALVES, SAFETY VALVES & IBOP TO 250/5000 PSI FOR 5/10 MIN. ANNULAR PREVENTER TO 250/2500 PSI FOR 5/10 MIN. RIG DOWN TESTERS.
23:00	0.50	23:30	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING.
23:30	4.00	03:30	6	TRIPS	PICK UP & MAKE UP 8 3/4 BHA & RIH TO FLOAT COLLAR @ 4160'.  NOTE: CHANGED TIME AHEAD FOR DAYLIGHT SAVINGS TIME.
03:30	1.50	05:00	3	REAMING	DRILL OUT SHOE TRACK & WASH TO TD.
05:00	0.25	05:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4211-4221'. ROP 40 FPH.
05:15	0.75	06:00	22	OPEN	ATTEMPT TO PERFORM FIT TO 10.5 PPG EMW, BUT WOULD ONLY HOLE 220 PSI = 9.6 PPG. MW 8.6 PPG.  MIX 50 BBL PILL OF 20% LCM.

<b>5-2D-36 BTR 3/10/2013 06:00 - 3/11/2013 06:00</b>							
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	SPOT 50 BBL 20% LCM PILL FROM 4221-3500'. CLOSE ANNULAR PREVENTER & PERFORM FIT TO 10.5 PPG EMW W/415 PSI SURFACE PRESSURE. MW 8.6 PPG.
06:30	2.25	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4221-4284'. ROP 28 FPH.
08:45	1.00	09:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4284-4299'. ROP 15 FPH.
09:45	0.75	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4299-4347'. ROP 64 FPH.  COMMENCE SWEEPING HOLE W/15 BBL MUD + 25 PPB FIT + 15% LCM EACH CONNECTION.
10:30	1.25	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4347-4363'. ROP 12.8 FPH.
11:45	1.25	13:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4363-4441'. ROP 62.4 FPH.
13:00	0.50	13:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4441-4461'. ROP 40 FPH.
13:30	0.75	14:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4461-4535'. ROP 98.7 FPH.
14:15	1.25	15:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4535-4556'. ROP 16.8 FPH.
15:30	0.25	15:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4556-4583'. ROP 108 FPH.
15:45	1.00	16:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4583-4602'. ROP 19 FPH.
16:45	0.75	17:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4602-4630'. ROP 37.3 FPH.
17:30	0.50	18:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
18:00	1.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4630-4650'. ROP 16 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4650-4677'. ROP 108 FPH.
19:30	1.00	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4677-4697'. ROP 20 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4697-4724'. ROP 54 FPH.
21:00	1.00	22:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4724-4744'. ROP 20 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4744-4771'. ROP 108 FPH.
22:15	1.25	23:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4771-4791'. ROP 16 FPH.
23:30	0.50	00:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4791-4819'. ROP 56 FPH.
00:00	1.25	01:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4819-4844'. ROP 20 FPH.
01:15	0.25	01:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4844-4867'. ROP 92 FPH.
01:30	1.25	02:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4867-4892'. ROP 20 FPH.
02:45	0.25	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4892-4914'. ROP 88 FPH.
03:00	1.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4914-4939'. ROP 16.7 FPH.
04:30	0.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4939-4959'. ROP 40 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4959-4974'. ROP 15 FPH.

**5-2D-36 BTR 3/11/2013 06:00 - 3/12/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 4974-4984'. ROP 20 FPH.  PUMPING 15 BBL MUD + 25 PPB FIT + 20% LCM EVERY STAND.
06:30	0.50	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 4984-5007'. ROP 46 FPH.
07:00	1.50	08:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5007-5027'. ROP 13.3 FPH.
08:30	1.50	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5027-5101'. ROP 49.3 FPH.
10:00	1.50	11:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5101-5126'. ROP 16.7 FPH.
11:30	3.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5126-5284'. ROP 45.1 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5384-5313'. ROP 19.3 FPH.
16:30	0.75	17:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5313-5384'. ROP 94.7 FPH.
17:15	0.50	17:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:45	0.75	18:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5384-5409'. ROP 33.3 FPH.
18:30	0.50	19:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5409-5431'. ROP 44 FPH.
19:00	1.50	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5431-5451'. ROP 13.3 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5451-5476'. ROP 50 FPH.
21:00	1.25	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5476-5496'. ROP 16 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5496-5524'. ROP 56 FPH.
22:45	1.25	00:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5524-5550'. ROP 20.8 FPH.
00:00	0.50	00:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5550-5572'. ROP 44 FPH.
00:30	1.25	01:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5572-5602'. ROP 24 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5602-5619'. ROP 34 FPH.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:15	1.25	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5619-5644'. ROP 20 FPH.
03:30	0.50	04:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5644-5667'. ROP 46 FPH.
04:00	1.00	05:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5667-5683'. ROP 16 FPH.
05:00	0.75	05:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5683-5714'. ROP 41.3 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5714-5718'. ROP 16 FPH.
ESTIMATE 24 BPH SEEPAGE LOSSES IN LAST 24 HRS.					

**5-2D-36 BTR 3/12/2013 06:00 - 3/13/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5718-5730'. ROP 24 FPH.
06:30	0.50	07:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5730-5761'. ROP 62 FPH.
07:00	1.25	08:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5761-5778'. ROP 13.6 FPH.
08:15	0.50	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5778-5808'. ROP 60 FPH.
08:45	1.50	10:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5808-5825'. ROP 11.3 FPH.
10:15	0.50	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5825-5855'. ROP 60 FPH.
10:45	1.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5855-5872'. ROP 11.3 FPH.
12:15	1.00	13:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5872-5902'. ROP 30 FPH.
13:15	0.75	14:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5902-5912'. ROP 13.3 FPH.
14:00	0.75	14:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5912-5950'. ROP 50.7 FPH.
14:45	1.25	16:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5950-5963'. ROP 10.4 FPH.
16:00	1.00	17:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 5963-5997'. ROP 34 FPH.
17:00	1.25	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 5997-6007'. ROP 8 FPH.
18:15	1.00	19:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6007-6046. ROP 39 FPH.
19:15	1.75	21:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6046-6061'. ROP 8.6 FPH.
21:00	1.00	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6061-6091'. ROP 30 FPH.
22:00	0.50	22:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6091-6106'. ROP 30 FPH.
22:30	1.00	23:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6106-6138'. ROP 32 FPH.
23:30	1.00	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6138-6158'. ROP 20 FPH.
00:30	0.75	01:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6158-6185'. ROP 36 FPH.
01:15	0.75	02:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6185-6205'. ROP 26.7 FPH.
02:00	1.00	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6205-6232'. ROP 36 FPH.
03:00	1.50	04:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6232-6257'. ROP 16.7 FPH.
04:30	1.00	05:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6257-6280'. ROP 23 FPH.
05:30	0.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6280-6283'. ROP 6 FPH.

**5-2D-36 BTR 3/13/2013 06:00 - 3/14/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6283-6289'. ROP 12 FPH.
PREP FOR BIT TRIP.					
06:30	4.50	11:00	6	TRIPS	PUMP SLUG & POH FOR NEW BIT #4. BREAK OFF BIT #3. COND: 1-3-BT-N/S-X-I-RO-PR.
11:00	4.00	15:00	2	DRILL ACTUAL	MAKE UP NEW BIT #4 & RIH. PRECAUTIONARY WASH LAST STAND TO BOTTOM.
15:00	0.25	15:15	2	DRILL ACTUAL	BREAK IN NEW BIT & DRILL 8 3/4 HOLE 6289-6294'. ROP 20 FPH.
15:15	0.75	16:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6294-6306'. ROP 160FPH.
16:00	0.50	16:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6306-6327'. ROP 42 FPH.
16:30	0.50	17:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6327-6342'. ROP 30 FPH.
17:00	1.00	18:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6342-6380'. ROP 38 FPH.
18:00	0.25	18:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6380-6389'. ROP 36 FPH.
18:15	0.50	18:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6389-6422'. ROP 66 FPH.
18:45	0.50	19:15	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
19:15	0.25	19:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6422-6437'. ROP 60 FPH.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
19:30	0.50	20:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6437-6468'. ROP 62 FPH.
20:00	0.50	20:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6468-6483'. ROP 30 FPH.
20:30	0.50	21:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6486-6515'. ROP 64 FPH.
21:00	0.75	21:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6515-6538'. ROP 30.7 FPH.
21:45	0.25	22:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6538-6563'. ROP 100 FPH.
22:00	1.00	23:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6563-6588'. ROP 25 FPH.
23:00	0.25	23:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6588-6609'. ROP 84 FPH.
23:15	1.25	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6609-6634'. ROP 20 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6634-6657'. ROP 46 FPH.
01:00	0.50	01:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6657-6672'. ROP 30 FPH.
01:30	0.25	01:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6672-6704'. ROP 128 FPH.
01:45	0.50	02:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6704-6712'. ROP 16 FPH.
02:15	0.50	02:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6712-6751'. ROP 78 FPH.
02:45	0.50	03:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6751-6761'. ROP 20 FPH.
03:15	0.50	03:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6761-6799'. ROP 76 FPH.
03:45	1.25	05:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6799-6825'. ROP 20.8 FPH.
05:00	0.25	05:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6825-6845'. ROP 80 FPH.
05:15	0.75	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6845-6865'. ROP 26.7 FPH.

**5-2D-36 BTR 3/14/2013 06:00 - 3/15/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6865-6892'. ROP 54 FPH. PUMPING 15 BBL LCM SWEEP EVERY STAND.
06:30	1.25	07:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6892-6922'. ROP 24 FPH.
07:45	0.50	08:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6922-6947'. ROP 50 FPH.
08:15	1.75	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6947-6987'. ROP 22.9 FPH.
10:00	0.25	10:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 6987-6996'. ROP 36 FPH.
10:15	1.25	11:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 6996-7020'. ROP 19.2 FPH.
11:30	0.25	11:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7020-7034'. ROP 56 FPH.
11:45	0.75	12:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7034-7041'. ROP 9.3 FPH.
12:30	0.75	13:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7041-7081'. ROP 53.3 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7081-7096'. ROP 53.3 FPH.
13:30	0.25	13:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7096-7128'. ROP 128 FPH.
13:45	1.00	14:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7128-7147'. ROP 19 FPH.
14:45	0.25	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7147-7175'. ROP 112 FPH.
15:00	0.50	15:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
15:30	1.00	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7175-7199'. ROP 24 FPH.
16:30	0.25	16:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7199-7222'. ROP 92 FPH.
16:45	2.50	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7222-7253'. ROP 12.4 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7253-7270'. ROP 68 FPH.
19:30	2.75	22:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7270-7300'. ROP 10.9 FPH.
22:15	0.50	22:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7300-7320'. ROP 40 FPH.
22:45	1.75	00:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7320-7340'. ROP 11.4 FPH.
00:30	0.50	01:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7340-7363'. ROP 46 FPH.
01:00	1.50	02:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7363-7383'. ROP 13.3 FPH.
02:30	0.50	03:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7383-7411'. ROP 54 FPH.
03:00	1.25	04:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7410-7430'. ROP 16 FPH.
04:15	0.50	04:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7430-7457'. ROP 54 FPH.
04:45	1.00	05:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7457-7478'. ROP 21 FPH.
05:45	0.25	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7478-7505'. ROP 108 FPH.

**5-2D-36 BTR 3/15/2013 06:00 - 3/16/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7505-7525'. ROP 16 FPH. PUMPING 15 BBL SCM SWEEP EVERY STAND.
07:15	0.50	07:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7525-7552'. ROP 54 FPH.
07:45	1.00	08:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7552-7572'. ROP 20 FPH.
08:45	0.50	09:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7572-7599'. ROP 54 FPH.
09:15	0.75	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7599-7602'. ROP 4 FPH. DIFFICULT SLIDING.
10:00	0.75	10:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7602-7647'. ROP 60 FPH.
10:45	1.50	12:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7647-7677'. ROP 20 FPH.
12:15	0.75	13:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7677-7741'. ROP 85.3 FPH.
13:00	1.50	14:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7741-7768'. ROP 18 FPH.
14:30	0.50	15:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7768-7788'. ROP 40 FPH.
15:00	1.50	16:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7788-7818'. ROP 20 FPH.
16:30	0.75	17:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7818-7835'. ROP 22.7 FPH.
17:15	0.50	17:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:45	1.50	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7835-7860'. ROP 16.7 FPH.
19:15	0.50	19:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7860-7882'. ROP 44 FPH.
19:45	2.25	22:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7882-7908'. ROP 11.6 FPH.
22:00	0.25	22:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7908-7928'. ROP 80 FPH.
22:15	2.00	00:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7928-7950'. ROP 11 FPH.
00:15	0.50	00:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7950-7976'. ROP 52 FPH.
00:45	1.50	02:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 7976-7998'. ROP 14.7 FPH.
02:15	0.25	02:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 7998-8023'. ROP 100 FPH.
02:30	1.50	04:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8023-8043'. ROP 13.3 FPH.
04:00	0.50	04:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8043-8070'. ROP 54 FPH.
04:30	1.50	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8070-8085'. ROP 10 FPH.

**5-2D-36 BTR 3/16/2013 06:00 - 3/17/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8085-8118'. ROP 66 FPH. PUMPING #1 DRILLCHEM SWEEPS EVERY STAND & OBSERVING ~15 BPH SEEPAGE.
06:30	1.25	07:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8118-8138'. ROP 16 FPH.
07:45	1.00	08:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8138-8212'. ROP 74 FPH.
08:45	1.25	10:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8212-8232'. ROP 16 FPH.
10:00	1.00	11:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8232-8306'. ROP 74 FPH.
11:00	1.00	12:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8306-8328'. ROP 22 FPH.
12:00	0.75	12:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8328-8400'. ROP 96 FPH.
12:45	0.50	13:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8400-8415'. ROP 30 FPH.
13:15	0.75	14:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8415-8494'. ROP 105.3 FPH.
14:00	0.50	14:30	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
14:30	2.00	16:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8494-8684'. ROP 95 FPH.
16:30	1.00	17:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8684-8699'. ROP 15 FPH.
17:30	1.00	18:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8699-8782'. ROP 83 FPH.
18:30	0.75	19:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8782-8802'. ROP 26.7 FPH.
19:15	1.25	20:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8802-8871'. ROP 55.2 FPH.
20:30	1.00	21:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8871-8891'. ROP 20 FPH.
21:30	1.50	23:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8891-8966'. ROP 50 FPH.
23:00	1.25	00:15	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 8966-8986'. ROP 16 FPH.
00:15	1.75	02:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 8986-9058'. ROP 41.1 FPH.
02:00	1.50	03:30	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9058-9078'. ROP 13.3 FPH.
03:30	1.50	05:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9078-9153'. ROP 50 FPH.
05:00	1.00	06:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9153-9163'. ROP 10 FPH.

**5-2D-36 BTR 3/17/2013 06:00 - 3/18/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9163-9174'. ROP 11 FPH. PUMPING 15 BBL #1 DRILLCHEM SWEEP EVERY STAND.
07:00	2.00	09:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9174-9249'. ROP 37.5 FPH. STARTED LOSING MUD @ 9130'. PUMP 50 BBL FIT/LCM PILL, BYPASS SHAKERS.
09:00	1.00	10:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9249-9280'. ROP 31 FPH. MIX SPOT 50 BBL LCM PILL ON BOTTOM. PREP FOR TRIP. SUSPECT MOTOR PROBLEM -VERY HIGH DIFF PRESSURE FOR WOB.
10:00	6.75	16:45	6	TRIPS	PULL 5 STANDS WET, PUMP SLUG. CONTINUE TO POH FOR NEW BIT #5 & NEW MOTOR. LAY DOWN RR. BREAK OFF BIT & LAY DOWN MOTOR. BIT COND: 0-1-WT-S-X-I-NO-DMF.
16:45	5.75	22:30	6	TRIPS	PICK UP NEW MOTOR, MAKE UP NEW BIT #5 & SCRIBE MOTOR TO MWD, INSTALL MWD PROBE. PICK UP NEW RR. RIH. FILL STRING AT SHOE & 6800'. PRECAUTIONARY WASH LAST STAND TO BOTTOM.
22:30	7.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9280-9710'. ROP 57.3 FPH. BYPASSING SHAKERS, TREATING ENTIRE SYSTEM W/FIT & LCM. ATTEMPTING TO WT UP MUD TO 9.4-9.5 PPG. OBSERVING SEEPAGE & SOME PERIODIC LOSSES.

**5-2D-36 BTR 3/18/2013 06:00 - 3/19/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9710-9813'. ROP 68.7 FPH.
07:30	1.25	08:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9813-9825'. ROP 9.6 FPH.
08:45	1.75	10:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9825-9907'. ROP 46.9 FPH.
10:30	1.25	11:45	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 9907-9916'. ROP 7.2 FPH.
11:45	1.75	13:30	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 9916-10001'. ROP 48.6 FPH.
13:30	0.50	14:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
14:00	1.00	15:00	2	DRILL ACTUAL	SLIDE DRILL 8 3/4 HOLE 10001-10018'. ROP 17 FPH.
15:00	15.00	06:00	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 10018-10733'. ROP 47.7 FPH.  AT 10200', STARTED SHAKING OUT SOLIDS /LCM FROM SYSTEM & CONTINUE ADDING FRESH LCM.  CURRENTLY LOSING ~ 15 BPH.

**5-2D-36 BTR 3/19/2013 06:00 - 3/20/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.75	18:45	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 10733-11217'. ROP 38 FPH.  CONTINUE TO SWEEP W/15 BBL DRILLCHEM #1 PILL EVERY STAND. BYPASS SHAKERS AT 11140'. BGG 4000-5000 U. 8-15' FLARE. INCREASE MW TO KILL GAS. WELL FLOWED ON CONNECTION AT 11133'. BUILDING LCM TO 25% NO COMPLETE LOSSES, BUT SEEPING AT ~50 BPH.  DRILL W/ONE PUMP 10956-10980' (52 MIN) 27.6 FPH.
18:45	1.25	20:00	5	COND MUD & CIRC	CIRCULATE & BUILD MUD VOLUME. WORK ON YELLOW DOG PUMPS.
20:00	1.25	21:15	2	DRILL ACTUAL	ROTATE DRILL 8 3/4 HOLE 11217-11275'. ROP 46.4 FPH. SHAKERS BYPASSED, 20% LCM.
21:15	2.00	23:15	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1.5 BOTTOMS UP. FLOW CHECK -NEGATIVE. PUMP SLUG.
23:15	3.75	03:00	6	TRIPS	TRIP TO 5500' NO PROBLEMS.
03:00	1.50	04:30	5	COND MUD & CIRC	PUMP 50 BBL SUPER SWEEP PILL & CIRCULATE 1.5 BOTTOMS UP. FLOW CHECK -NEGATIVE. PUMP SLUG.
04:30	1.50	06:00	6	TRIPS	POH TO LOG.



**5-2D-36 BTR 3/20/2013 06:00 - 3/21/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.75	09:45	6	TRIPS	TOOH, L/D DIRCTIONAL TOOLS
09:45	0.50	10:15	7	LUBRICATE RIG	RIG SERVICE
10:15	8.75	19:00	11	WIRELINE LOGS	HSM, RIG UP HES AND LOG. RESTIVTY TOOL READING HIGH, SWAP OUT. RUN QUAD COMBO F / 12285' TO S SURFACE CASING.
19:00	4.25	23:15	6	TRIPS	PULLWEAR BUSHING TIH.
23:15	1.75	01:00	5	COND MUD & CIRC	CIRC. 1 1/2 BOTTOMS UP. 15' FLARE.
01:00	5.00	06:00	6	TRIPS	LDDP

**5-2D-36 BTR 3/21/2013 06:00 - 3/22/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	LDDP AND BHA
08:00	10.00	18:00	12		HSM, RUN CASING. FS (1.25'), 2 SHOE JTS (87.08'), FC (.92'), 29 JTS 5 1/2" 17# HCP 110 LT&C CASING (1298.5), MARKER JT (22.08'), 29 JTS (1306.09'), 190 JTS (8533.34). LANDED @ 11265' MADE W / BESTOLIFE DOPE TO 4620 FT/LB.
18:00	1.50	19:30	5	COND MUD & CIRC	CIRC. W / RIG PUMP @ 10 BL/MIN FULL RETURNS.
19:30	5.00	00:30	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 5 BLS H2O, 40 BLS SUPERFLUSH, 10 BLS H2O, 1000 SKS TUNED LIGHT 11# 2.32 YEILD W / 5 LB SILICALITE, 10 LB S COTCHLITE, .35 LB HALAD 344. TAILED W / 625 SKS ECONOCHEM 13.5# 1.45 YEILD W / 1 LB GRALULITE, .125 LB POLY-E-FLAKE. DISPLACED W / 259 BLS H2O W / CLAYWEB, AND ALICIDE. BUMP PLUG FLOATS HELD. WITH 54 BLS LEFT IN DIPLACEMENT LOST RETURNS.
00:30	5.50	06:00	14	NIPPLE UP B.O.P	NIPPLE DN SET SLIP W / 220K. CLEAN MUD TANKS. RIG RELEASE @ 06:00 HR 3/22/13.

**5-2D-36 BTR 3/27/2013 06:00 - 3/28/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
09:00	5.00	14:00	IWHD	Install Wellhead	Safety Meeting With Cameron, Check Surface Casing & 5.5" For Pressure, 0 Psi On Both Sides. N/D 11" Night Cap, Cleaned And Dressed Up 5.5" Csg Top, Set And N/U 11" x 7 1/16" 5k Tbg. Head With 2 1/16" x 5k Gate Valves. Tested Hanger Seals To 7100 Psi, Good Test. Secured Well Head With 7" 5K Night Cap.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.

**5-2D-36 BTR 3/29/2013 06:00 - 3/30/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.
08:00	1.50	09:30	SRIG	Rig Up/Down	MIRU SLB W / L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
09:30	5.00	14:30	LOGG	Logging	P / J Junk Basket/Gauge Ring. RIH, Tagged Up At 11,059', Drilling Report Shows FC At 11,176', 117' Of Fill. POOH, P / J CBL Tool, Rih To PBTD, 11,059', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 03-20-2013. Run Repeat Section From 11,059 - 10,750', Log Up Hole. Showed Good Bond From TD To 7,350, 7,350 - 6,000' Good To Fair, 6,000 - 2,120 Fair To Spotty. TOC 2,120'. Found Short Joints At 9,810 - 9,832' And 8,527 - 8,549'. Ran With Pressure. Pooh, RD Equipment, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

**5-2D-36 BTR 3/30/2013 06:00 - 3/31/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com



**5-2D-36 BTR 4/5/2013 06:00 - 4/6/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	FACILITIES UNDER CONSTRUCTION. KINDER MORGAN INSTALLING GAS LINE.

**5-2D-36 BTR 4/6/2013 06:00 - 4/7/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	KINDER MORGAN INSTALLING GAS LINE

**5-2D-36 BTR 4/7/2013 06:00 - 4/8/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	KINDER MORGAN INSTALLING GAS LINE. MOVE IN FB TANKS. START MOVE IN FRAC LINE.

**5-2D-36 BTR 4/8/2013 06:00 - 4/9/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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 AND PLUMB IN FB EQUIP.

**5-2D-36 BTR 4/9/2013 06:00 - 4/10/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	UNABLE TO GET TO LOCATION TO INSTALL FRAC VALVES DUE TO SNOW CONDITIONS AND GAS LINE INSTALL.

**5-2D-36 BTR 4/11/2013 06:00 - 4/12/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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 Mandrel. Set Frac Tree, Test Casing. Plumb In FlowBack, Test FlowBackS and Trap. Construction Crew Working On Facilities.

**5-2D-36 BTR 4/12/2013 06:00 - 4/13/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	Construction Crew Working On Facilities. Repair Location And Road For Setting Tanks And Filling. Set Frac Line/Fill

**5-2D-36 BTR 4/13/2013 06:00 - 4/14/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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. Set Fill Manifold And Fall Protection.

**5-2D-36 BTR 4/14/2013 06:00 - 4/15/2013 06:00**

API/JWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

<b>5-2D-36 BTR 4/14/2013 06:00 - 4/15/2013 06:00</b>						
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	FINISH FILLING FRAC LINE.	

<b>5-2D-36 BTR 4/15/2013 06:00 - 4/16/2013 06:00</b>						
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Heat KCL Tanks. HES Load And Mix Acid. Set Movers. Prep For Frac.	

<b>5-2D-36 BTR 4/16/2013 06:00 - 4/17/2013 06:00</b>						
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	4.50	10:30	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.	
10:30	1.50	12:00	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Perforate Stage 1 CR-5/CR-4A/CR-4 Zone, 10,733 - 11,057'. 51 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
12:00	3.00	15:00	SRIG	Rig Up/Down	HES Rigging Up	
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.	

<b>5-2D-36 BTR 4/17/2013 06:00 - 4/18/2013 06:00</b>						
API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type 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	1.17	07:10	FRAC	Frac. Job	Frac Stage 1. Fluid System: Hybor G 18 Open Well, 45 P si. ICP. BrokeDown At 8.8 Bpm And 4,429 P si.. Pump 3900 Gals. 15% HCL And 102 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 67.8 Bpm And 6,545 P si., Get ISIP, 3,882 P si.. 0.79 P si./Ft. F.G.. 31/51 Holes. Con't With SlickWater Pad, 49,014 Gals.. Stage Into Hybor Pad, 70.4 Bpm At 6,408 P si.. On Perfs, 70.4 Bpm At 6,836 P si., 11,970 Gals. Stage Into 2.0# 20/40 CRC Prop, 70.4 Bpm At 6,887 P si.. On Perfs, 70.3 Bpm At 6,420 P si., 11,604 Gals. Stage Into 3.0# 20/40 CRC Prop, 70.3 Bpm At 6,341 P si.. On Perfs, 70.3 Bpm At 5,656 P si., 12,360 Gals. Stage Into 3.5# 20/40 CRC Prop, 70.3 Bpm At 5,640 P si.. On Perfs, 70.3 Bpm At 5,947 P si., 13,008 Gals. Cut Sand Due To Sharp Increase In Net. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 4,393 P si.. 0.84 P si./Ft. F.G.. WSI And Secured. Total 20/40 CRC Prop -98,040#, 65% Of Design Total Clean -125,167 Gals.. 2,980 Bbls.. Produced Water -74,142 Gals.. 2% KCL -48,942 Gals.. BWTR -3,104 Bbls. Max. Rate -70.4 Bpm Avg. Rate -70.3 Bpm Max. P si. -6,906 P si. Avg. P si. -6,056 P si.
07:10	0.17	07:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
07:20	1.50	08:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 S pf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES Dual Spaced Neutron Spectral Density Dated 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 -9,832'. Drop Down To Depth, Set CBP At 10,708'. 3,600 P si.. Perforate Stage 2 CR-4,CR-3 Zone, 10,435 -10,688'. 45 Holes. 1,700 P si.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
08:50	0.08	08:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
08:55	1.25	10:10	FRAC	Frac. Job	Frac Stage 2. Fluid System: Hybor G 16 Open Well, 2,215 P si. ICP. BrokeDown At 10.9 Bpm And 4,385 P si.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 71.1 Bpm And 5,941 P si., Get ISIP, 3,168 P si.. 0.74 P si./Ft. F.G.. 35/45 Holes. Con't With SlickWater Pad, 48,413 Gals.. Stage Into Hybor Pad, 70.2 Bpm At 5,172 P si.. On Perfs, 69.1 Bpm At 5,415 P si., 12,036 Gals. Stage Into 2.0# 20/40 CRC Prop, 69.0 Bpm At 5,510 P si.. On Perfs, 69.9 Bpm At 5,161 P si., 12,554 Gals. Stage Into 3.0# 20/40 CRC Prop, 69.9 Bpm At 5,125 P si.. On Perfs, 70.0 Bpm At 4,951 P si., 15,068 Gals. Stage Into 3.5# 20/40 CRC Prop, 70.0 Bpm At 4,949 P si.. On Perfs, 69.8 Bpm At 5,124 P si., 17,021 Gals. Stage Into 4.0# 20/40 CRC Prop, 69.7 Bpm At 5,242 P si.. On Perfs, 70.8 Bpm At 6,314 P si., 6,167 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,773 P si.. 0.80 P si./Ft. F.G.. WSI And Secured. Total 20/40 CRC Prop -148,500#, Total Clean -137,329 Gals.. 3,270 Bbls.. Produced Water -72,562 Gals.. 2% KCL -62,846 Gals.. BWTR -3,440 Bbls. Max. Rate -70.2 Bpm Avg. Rate -69.8 Bpm Max. P si. -5,555 P si. Avg. P si. -5,137 P si.
10:10	0.17	10:20	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
10:20	1.33	11:40	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Set CBP At 10,410'. 3,200 Psi.. Perforate Stage 3 CR-3 Zone, 10,125 - 10,393'. 45 Holes. 2,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:40	0.08	11:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
11:45	1.25	13:00	FRAC	Frac. Job	Frac Stage 3. Fluid System: Hybor G 16 Open Well, 2,876 Psi. ICP. Broke Down At 10.7 Bpm And 3,680 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 68.6 Bpm And 6,251 Psi., Get ISIP, 2,810 Psi.. 0.71 Psi./ft. F.G.. 32/45 Holes. Con't With SlickWater Pad, 48,201 Gals.. Stage Into Hybor Pad, 70.2 Bpm At 5,010 Psi.. On Perfs, 70.0 Bpm At 5,460 Psi., 11,964 Gals. Stage Into 2.0# 20/40 White Prop, 70.0 Bpm At 5,478 Psi.. On Perfs, 70.0 Bpm At 4,910 Psi., 10,932 Gals. Stage Into 3.0# 20/40 White Prop, 70.0 Bpm At 4,858 Psi.. On Perfs, 69.8 Bpm At 4,249 Psi., 14,803 Gals. Stage Into 3.5# 20/40 White Prop, 69.7 Bpm At 4,323 Psi.. On Perfs, 70.6 Bpm At 4,211 Psi., 11,896 Gals. Stage Into 4.0# 20/40 White Prop, 70.6 Bpm At 4,200 Psi.. On Perfs, 70.4 Bpm At 4,200 Psi., 12,339 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,274 Psi.. 0.76 Psi./ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,200#. Total Clean - 135,598 Gals.. 3,229 Bbls.. Produced Water - 71,702 Gals.. 2% KCL - 61,934 Gals.. BWTR - 3,465 Bbls. Max. Rate - 70.7 Bpm Avg. Rate - 70.2 Bpm Max. Psi. - 5,479 Psi. Avg. Psi. - 4,516 Psi.
13:00	0.17	13:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
13:10	2.58	15:45	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 9,810 - 9,832'. Drop Down To Depth, Set CBP At 10,094'. 2,800 Psi.. Perforate Stage 4 CR-2 Masatch Zone, 9,742 - 10,076'. 51 Holes. 1,600 Psi.. Chain Broke From Hydraulic Motor To WireLine Reel Coming Out Of Hole. Down 75 Minutes To Repair. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:45	0.09	15:50	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
15:50	1.25	17:05	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,553 Psi. ICP. BrokeDown At 10.7 Bpm And 4,178 Psi.. Pump 3900 Gals. 15% HCL And 102 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 70.6 Bpm And 4,650 Psi., Get ISIP, 2,730 Psi.. 0.71 Psi./Ft. F.G.. 39/51 Holes. Con't With SlickWater Pad, 48,226 Gals.. Stage Into Hybor Pad, 70.3 Bpm At 4,472 Psi.. On Perfs, 70.1 Bpm At 4,686 Psi., 12,076 Gals. Stage Into 2.0# 20/40 White Prop, 70.1 Bpm At 4,761 Psi.. On Perfs, 70.2 Bpm At 4,240 Psi., 10,623 Gals. Stage Into 3.0# 20/40 White Prop, 70.3 Bpm At 4,240 Psi.. On Perfs, 70.4 Bpm At 4,129 Psi., 20,101 Gals. Stage Into 3.5# 20/40 White Prop, 70.3 Bpm At 4,055 Psi.. On Perfs, 70.3 Bpm At 3,898 Psi., 11,662 Gals. Stage Into 4.0# 20/40 White Prop, 70.4 Bpm At 3,899 Psi.. On Perfs, 70.2 Bpm At 4,155 Psi., 8,356 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,161 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 149,900#, Total Clean - 136,092 Gals.. 3,240 Bbls.. Produced Water - 71,266 Gals.. 2% KCL - 62,818 Gals.. BWTR - 3,463 Bbls. Max. Rate - 70.4 Bpm Avg. Rate - 70.2 bpm Max. Psi. - 4,795 Psi. Avg. Psi. - 4,139 Psi.
17:05	0.17	17:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:15	1.33	18:35	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 9,710'. 2,900 Psi.. Perforate Stage 5 Wasatch/CR-1 Zone, 9,421 - 9,691'. 45 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:35	11.42	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

**5-2D-36 BTR 4/18/2013 06:00 - 4/19/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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.
06:00	0.09	06:05	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:05	0.25	06:20	FRAC	Frac. Job	Acidize Stage 5. Open Well, 2,033 Psi. ICP. BrokeDown At 8.8 Bpm And 3,450 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,431 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total Clean - 25,249 Gals.. 601 Bbls.. BWTR - 601 Bbls. Max. Rate - 56.0 Bpm Avg. Rate - 40.3 Bpm Max. Psi. - 4,193 Psi. Avg. Psi. - 3,474 Psi.
06:20	0.17	06:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:30	1.33	07:50	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 9,390'. 2,200 Psi.. Perforate Stage 6 UteLand Butte/Castle Peak Zone, 9,125 - 9,370'. 45 Holes. 1,300 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
07:50	0.08	07:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
07:55	0.42	08:20	FRAC	Frac. Job	Acidize Stage 6. Open Well, 1,217 Psi. ICP. BrokeDown At 4.2 Bpm And 1,611 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 1,848 Psi.. 0.64 Psi./Ft F.G.. WSI And Secured. Total Clean - 25,066 Gals.. 597 Bbls.. BWTR - 597 Bbls. Max. Rate - 50.1 Bpm Avg. Rate - 34.4 Bpm Max. Psi. - 7,508 Psi. Avg. Psi. - 2,081 Psi.
08:20	0.17	08:30	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:30	1.25	09:45	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 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 9,100'. 1,800 Psi.. Perforate Stage 7 Castle Peak/Black Shale Zone, 8,809 - 9,080'. 45 Holes. 900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
09:45	0.25	10:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:00	0.33	10:20	FRAC	Frac. Job	Acidize Stage 7. Open Well, 250 Psi. ICP. BrokeDown At 8.4 Bpm And 2,379 Psi.. Pump 15,000 Gals. 15% HCL Drop 90 Bio Balls. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,092 Psi.. 0.67 Psi./Ft F.G.. WSI And Secured. Total Clean - 25,000 Gals.. 595 Bbls.. BWTR - 595 Bbls. Max. Rate - 50.3 Bpm Avg. Rate - 36.7 Bpm Max. Psi. - 7,240 Psi. Avg. Psi. - 2,627 Psi.
10:20	0.34	10:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
10:40	1.16	11:50	PFRT	Perforating	RIH With 3 1/8" Sinker Bar And CBP Plug Assembly. Correlating To HES Dual Spaced Neutron/Spectral Density Dated 03-20-2013 And SLB CBL/CCL Dated 03-29-2013. Found And Correlated To Short Joint At 8,527 - 8,549'. Drop Down To Depth, Set CBP At 8,750'. 1,900 Psi.. Bleed Pressure Off Well. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:50	2.67	14:30	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	Batch Wwater. Move Tanks Off Location. WSI And Secured.

**5-2D-36 BTR 4/19/2013 06:00 - 4/20/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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
07:00	1.50	08:30	RMOV	Rig Move	HSM. ROAD RIG TO LOCATIO. SPOT AND RUSU.
08:30	1.50	10:00	BOPI	Install BOP's	CHECK PRESSURE. ND FRAC VALVES. NU 7" SK BOP AND HYDRIL. RU FLOOR. SPOT CATWALK.
10:00	1.00	11:00	DTIM	Downtime	WAIT ON FORKLIFT
11:00	2.00	13:00	GOP	General Operations	SET PIPE RACKS. UNLOAD 365-J TS 2-7/8" L-80 TBG. (SLOW DUE TO MUD)



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	4.00	17:00	RUTB	R un Tubing	MU 4-3/4" BIT, POBS, 1-JT, 2.31 XN. RIH AS PU 2-7/8" TBG TO TAG KILL PLUG AT 8750' WITH 276-JTS IN.
17:00	1.00	18:00	GOP	General Operations	RU DRLG EQUIP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

**5-2D-36 BTR 4/20/2013 06:00 - 4/21/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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. HSM.
07:00	0.75	07:45	PTST	Pressure Test	OPEN WELL. FILL TBG AND CHECK FOR CIRC. PRES TEST TO 2500 PSI.
07:45	6.00	13:45	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS #1 AT 8750'. C/O 0' SAND. D/O IN 5 MIN. FCP 100 PSI. RIH. #2 AT 9100'. C/O 0' SAND. D/O IN 5 MIN. FCP 200 PSI. RIH. #3 AT 9390'. C/O 0' SAND. D/O IN 15 MIN. FCP 250 PSI. RIH. #4 AT 9710'. C/O 0' SAND. D/O IN 11 MIN. FCP 450 PSI. RIH. #5 AT 10,094'. C/O 8' SAND. D/O IN 5 MIN. FCP 350 PSI. RIH. #6 AT 10,410'. C/O 16' SAND. D/O IN 19 MIN. FCP 450 PSI. RIH. #7 AT 10,708'. C/O 100' SAND. D/O IN 15 MIN. FCP 450 PSI. RIH. FC AT 11,176'. C/O 206' SAND. D/O FC. D/O 33' CMT. PBDT AT 11,209' (152' RATHOLE) WITH 352-JTS IN.
13:45	1.50	15:15	CLN	Clean Out Hole	CIRCULATE CLEAN. PUMP 3.5 BPM. RETURN 4.5 BPM. W /400 PSI ON CSG.
15:15	1.00	16:15	PULT	Pull Tubing	RD PWR SWIVEL. POOH S LD 76-JTS TBG.
16:15	0.50	16:45	GOP	General Operations	PU 7" 5K HANGER. LUB IN AND LAND HANGER.  TBG DETAIL KB 24.00 7" 5K HANGER 275-JTS 2-7/8" L-80 TBG 2.31 XN NIPPLE 1JT 2-7/8" L-80 TBG POBS
16:45	1.00	17:45	GOP	General Operations	RD FLOOR. ND BOP. NU WH. POBS AT 2100 PSI. PLUMB IN FLOW LINES.
17:45	1.75	19:30	SRIG	Rig Up/Down	RDSU. FLOW TO FB TANKS TO GET WTR BACK. BATTERY NOT READY, KINDER MORGAN GAS LINE TEST, THEN PURGE. SHUT WELL IN. MAKING GAS AND OIL. TURN OVER TO FBC. WILL OPEN WHEN BATTERY READY. CREW TRAVEL. ROAD RIG OFF LOCATION.
19:30	10.50	06:00	FBCK	Flowback Well	WELL TURNED OVER TO FBC AND PRODUCTION.

**5-2D-36 BTR 5/7/2013 06:00 - 5/8/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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	1.50	08:30	RMOV	Rig Move	ROAD RIG F/7-6-45 BTR TO LOCATION.
08:30	1.00	09:30	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.
09:30	0.50	10:00	GOP	General Operations	BLEED WELL DOWN. R/U HOT OILIER. BRAKES ON RIG FAILED FOR NO REASON & TRAVELING BLOCKS DROPPED. NO ONE WAS HURT. NO DAMAGE. SHUT DOWN TO INSPECT BRAKES & REPAIR. SDFN.
10:00	20.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

**5-2D-36 BTR 5/8/2013 06:00 - 5/9/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	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. JSA
07:00	1.50	08:30	DTIM	Downtime	R&M RIG. REPAIR MASTER CYLINDER ON BRAKES.
08:30	2.00	10:30	GOP	General Operations	PUMP 100 BBLS DOWN TBG W/H.O.T.
10:30	1.00	11:30	BOPI	Install BOP's	BLEED OFF CSG PRESSURE. ND WH. NU BOP. RU FLOOR.
11:30	2.00	13:30	PULT	Pull Tubing	POOH W /276-JTS 2-7/8" TBG.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
13:30	2.00	15:30	RUTB	R un Tubing	MU PROD BHA AND RIH.  TBG DETAIL KB HANGER 284 J TS 2-7/8" TBG 5-1/2" 8 RD LH SET TAC 2 J TS 2-7/8" TBG PSN 4' TBG SUB 3-1/2" OD DESANDER 5 J TS 2-7/8" TBG BULL PLUG	
15:30	1.50	17:00	GOP	General Operations	RD FLOOR. ND BOP. SET TAC AT 9061.68 W / 20K TENSION. EOT AT 9307.46	
17:00	1.00	18:00	GOP	General Operations	NU WH. X-OVER FOR RODS. SDFN.	
18:00	13.00	07:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.	

**5-2D-36 BTR 5/9/2013 06:00 - 5/10/2013 06:00**

API/UWI 43013509130000	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 4,211.0	Primary Job Type Initial Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	3.00	09:00	CTRL	Crew Travel	KEY MONTHLY SAFETY MTG. CREW TRAVEL.	
09:00	1.00	10:00	GOP	General Operations	SPOT AND PREP RODS.	
10:00	5.50	15:30	RURP	R un Rods & Pump	PU AND PRIME NEW 25-175-RHBC-30-5-33-36 PUMP. RIH W / RODS.  ROD DETAIL 1-1/2" X 40' POLISH ROD 106) 1" MMS W / 4G 107) 7/8" MMS W / 4G 113) 3/4" MMS W / 4G 36) 1" MMS W / 4G SHEAR CPLG 25-175-RHBC-30-5-33-36 PUMP #BB2385	
15:30	0.50	16:00	GOP	General Operations	SPACE OUT AND SEAT PUMP. FILL W / 10 BBL AND TEST TO 1000#. STROKE TEST GOOD.	
16:00	0.50	16:30	SRIG	R ig Up/Down	RDSU.	
16:30	1.00	17:30	GOP	General Operations	SLIDE ROTO IN. TURN OVER TO PRODUCTION DEPT.	
17:30	12.50	06:00	GOP	General Operations	CREW TRAVEL. WELL TURNED OVER TO PRODUCTION.	

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

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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

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

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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

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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

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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

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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 FOOTAGES AT SURFACE: (see attached well list) COUNTY:		9. API NUMBER:
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH		10. FIELD AND POOL, OR WILDCAT:

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**

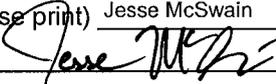
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<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

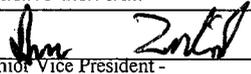
TRANSFER OF AUTHORITY TO INJECT

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

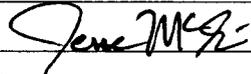
CURRENT OPERATOR

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

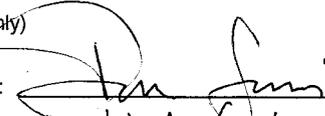
Name: Duane Zavadil  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

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: UIC Geologist

Approval Date: 11/3/16

Comments:

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

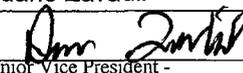
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

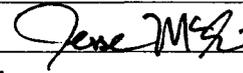
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

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

**NEW OPERATOR**

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

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

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

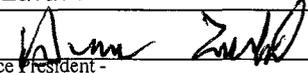
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

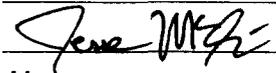
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well  Footage : 0539 FSL 0704 FEL County : DUCHESNE	Field or Unit Name CEDAR RIM
QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

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

**NEW OPERATOR**

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

(This space for State use only)

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

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

Comments:

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