

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER 5H-1-46 BTR Uteland Butte					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164					
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 2OG0005608			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		2666 FNL 286 FWL		NWSW	6	4.0 S	5.0 W	U			
Top of Uppermost Producing Zone		2522 FNL 714 FEL		SENE	6	4.0 S	5.0 W	U			
At Total Depth		1980 FNL 700 FWL		SWNW	1	4.0 S	6.0 W	U			
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4523			26. PROPOSED DEPTH MD: 11506 TVD: 6743					
27. ELEVATION - GROUND LEVEL 5939			28. BOND NUMBER LPM8874725			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180					
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	No Used		0	0.0	0.0
Surf	12.25	9.625	0 - 2500	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown		350	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.17	15.8
I1	8.75	7	0 - 7576	23.0	P-110 LT&C	9.2	Unknown		300	3.14	11.0
							Unknown		410	1.42	13.5
L1	6.125	4.5	0 - 11506	11.6	P-110 LT&C	9.5	No Used		0	0.0	0.0
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 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						
NAME Venessa Langmacher			TITLE Senior Permit Analyst			PHONE 303 312-8172					
SIGNATURE			DATE 02/02/2012			EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013512150000			APPROVAL			 Permit Manager					

DRILLING PLAN

BILL BARRETT CORPORATION
 5H-1-46 BTR Uteland Butte
 SHL: Lot 6 (NWSW), 2666' FNL and 286' FWL, Section 6, T4S-R5W
 BHL: SWNW, 1980' FNL and 700' FWL, Section 1, T4S-R6W
 Duchesne Co., UT

Bill Barrett Corporation (BBC) intends to drill a horizontal through the prospective zone within the Uteland Butte.

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

HORIZONTAL LEG FFORMATION TOPS

Formation	Depth – MD	Depth - TVD
Green River	2,683'	2,683'
Surface casing	2,500'	2,500'
Mahogany	3,343'	3,343'
TGR3	4,733'	4,733'
Douglas Creek	5,588'	5,588'
3 PT Marker	6,023'	6,023'
Black Shale Facies	6,452'	6,437'
Castle Peak	6,708'	6,649'
*Uteland Butte (Penetration Point)	7,216'	6,926'
CR1A Base	7,310'	6,951'
TD	11,506'	6,743'

***PROSPECTIVE PAY**

The Uteland Butte CR1 is the primary objective for oil/gas.

Base of Useable Water = 5,500'

4. Casing Program

Hole Size	SETTING DEPTH		Casing Size	Casing Weight	Casing Grade	Thread	Condition
	(FROM)	(TO)					
26"	Surface	80'	16"	65#			
12-1/4"	surface	2,500'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	7,576'	7"	23.0 ppf	P-110	LT&C	New
6 1/8"	surface	11,506'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan
5H-1-46 BTR Uteland Butte
Duchesne Co., UT

5. Cementing Program

16" Conductor Casing	<i>Grout</i>
9 5/8" Surface Casing	<i>Lead with approximately 350 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft³/sx). 75% excess TOC @ Surface Tail with 210 sx Premium 14.8 ppg (yield = 1.36 ft³/sx) calculated hole volume with 75% excess. TOC @ 2,000' Top out cement, if required: 100 sx of Premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft³/sk)</i>
7" Intermediate Casing	<i>Lead with approximately 300 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft³/sx). TOC @ 2,100' Tail with approximately 410 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). TOC @ 5020'</i>
4 1/2" Liner with 4-1/2" Tieback to surface	<i>No cement will be used in this section. Swell packers will be run to isolate the production hole from the intermediate casing section.</i>
Note: Top of Tail cement for the intermediate string will be calculated to 1000' above the KOP using gauge hole plus 50% excess. Lead to 400' inside of surface casing.	

6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
40' – 2,500'	8.4 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,500' – 7,576'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
7,576' – TD	9.0 – 9.5	45 – 58	4 – 10	Fresh Water PHPA
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,500'	No pressure control required
2,500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 5000 psi;	
- Ancillary equipment and choke manifold rated at 5,000#. 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.	

Drilling Plan
 5H-1-46 BTR Uteland Butte
 Duchesne Co., UT

8. Auxiliary Equipment

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

9. Testing, Logging and Core Programs

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD with GR as needed to land wellbore;
WL Logging	None in intermediate
Note: FMI and CAL may be run on the lateral portion of the horizontal wellbore at the geologist's discretion.	

10. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3331 psi* and maximum anticipated surface pressure equals approximately 1848 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)

11. Location and Type of Water Supply

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

12. Drilling Schedule

Location Construction: June 2012
 Spud: June 2012
 Duration: 25 days drilling time
 25 days completion time

Well name:	BTR/LC HZ Well
Operator:	BBC
String type:	Surface
Location:	Utah

Design parameters:

Collapse

Mud weight: 8.900 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 96 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,000 ft
 Minimum Drift: 8.750 in
 Cement top: Surface

Burst

Max anticipated surface pressure: 527 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 857 psi
 Annular backup: 9.50 ppg

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Tension is based on buoyed weight.
 Neutral point: 1,302 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 4,697 ft
 Next mud weight: 9.500 ppg
 Next setting BHP: 2,318 psi
 Fracture mud wt: 11.000 ppg
 Fracture depth: 1,500 ft
 Injection pressure 857 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	1500	9.625	36.00	K-55	ST&C	1500	1500	8.765	106.8
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	693	2020	2.913	527	3520	6.68	47	423	9.02 J

Bill Barrett

Date: June 23,2011
 Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.9 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	BTR/LC HZ Well
Operator:	BBC
String type:	Intermediate
Location:	Utah

Design parameters:

Collapse

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,683 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 3,036 psi

Annular backup: 9.50 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 5,274 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 161 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft
Minimum Drift: 6.125 in
Cement top: 11 ft

Directional Info - Build & Hold

Kick-off point: 5580 ft
Departure at shoe: 604 ft
Maximum dogleg: 10 °/100ft
Inclination at shoe: 93.1 °

Re subsequent strings:

Next setting depth: 5,980 ft
Next mud weight: 9.500 ppg
Next setting BHP: 2,951 psi
Fracture mud wt: 14.000 ppg
Fracture depth: 6,152 ft
Injection pressure: 4,474 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	6511	7	23.00	N-80	LT&C	6152	6511	6.25	300.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3036	3575	1.177	1683	6340	3.77	121	442	3.64 J

Bill Barrett

Date: June 23,2011
Denver, Colorado

Remarks:

Collapse is based on a vertical depth of 6152 ft, a mud weight of 9.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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

Well name:	BTR/LC HZ Well
Operator:	N/A
String type:	Production Liner

Design parameters:**Collapse**

Mud weight: 9.500 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 1,572 psi
Internal gradient: 0.220 psi/ft
Calculated BHP: 2,837 psi

Annular backup: 9.50 ppg

Minimum design factors:**Collapse:**

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 5,703 ft

Environment:

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 155 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft
Minimum Drift: 3.875 in

Liner top: 5,000 ft
Directional Info - Build & Hold
Kick-off point: 5123 ft
Departure at shoe: 4885 ft
Maximum dogleg: 8 °/100ft
Inclination at shoe: 91.26 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5418	4.5	11.60	P-110	LT&C	5748	10418	3.875	26104
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2837	7580	2.672	205	10690	52.25	7.4	279	37.48 J

Bill Barrett

Date: June 23,2011
Denver, Colorado

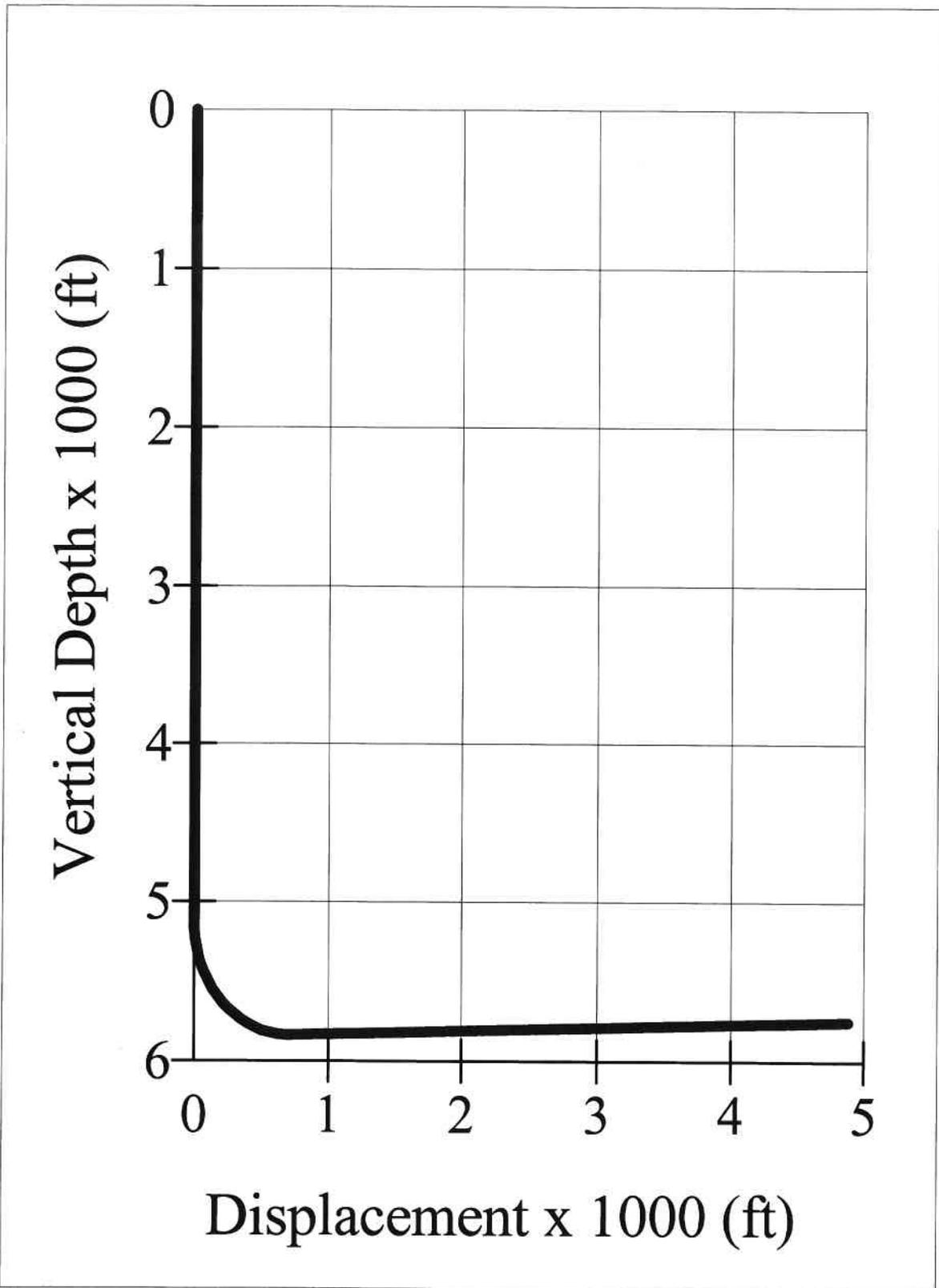
Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 5748 ft, a mud weight of 9.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

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



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).

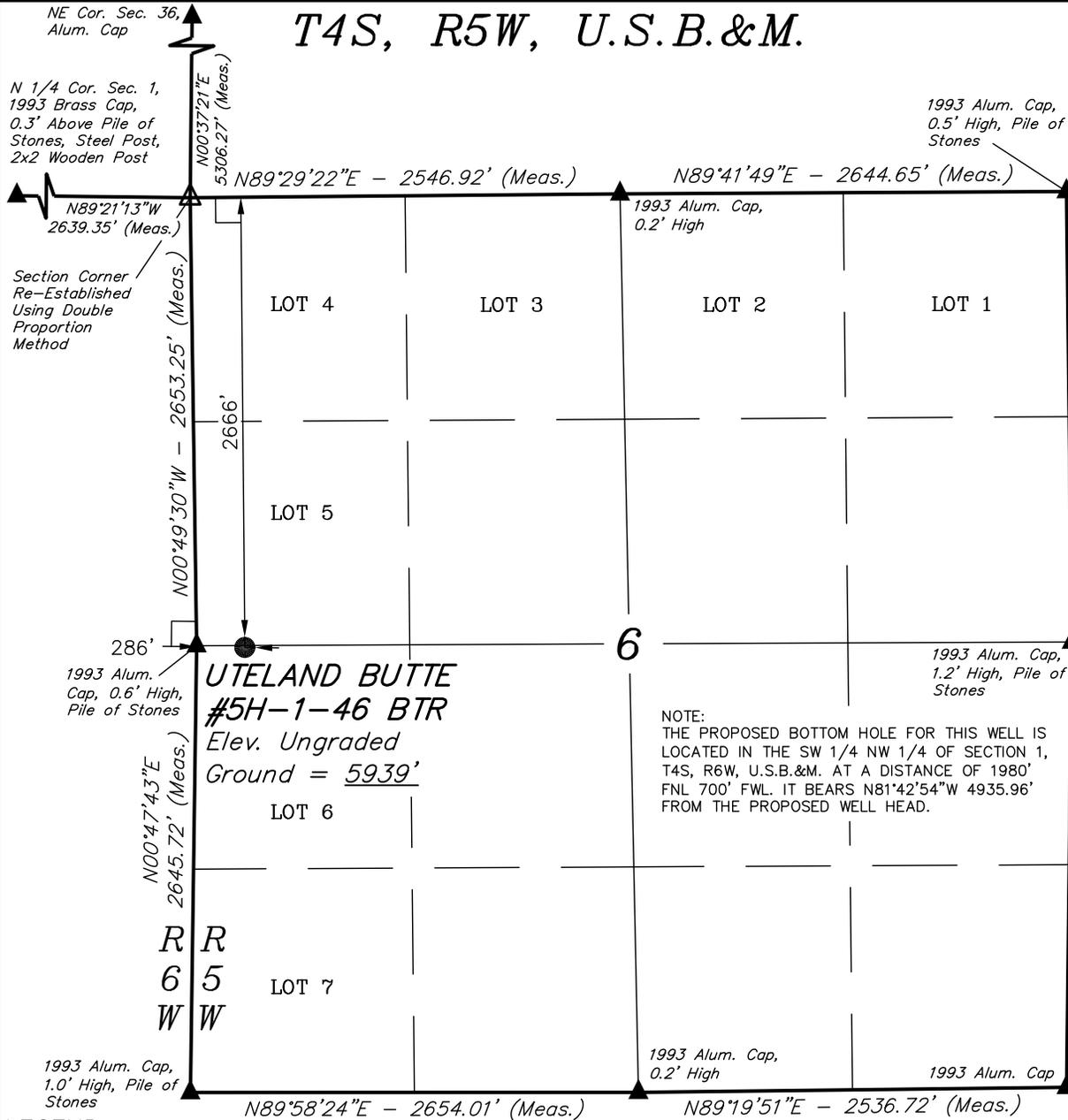
F. Miscellaneous Information:

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.

T4S, R5W, U.S.B.&M.

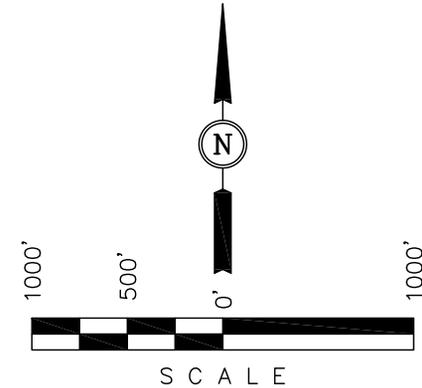
BILL BARRETT CORPORATION



Well location, UTELAND BUTTE #5H-1-46 BTR (SURFACE LOCATION), located as shown in Lot 6 of Section 6, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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



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
 10-18-11

REVISED: 10-13-11
 REVISED: 07-28-11
 REVISED: 04-27-11

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

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

BASIS OF BEARINGS

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

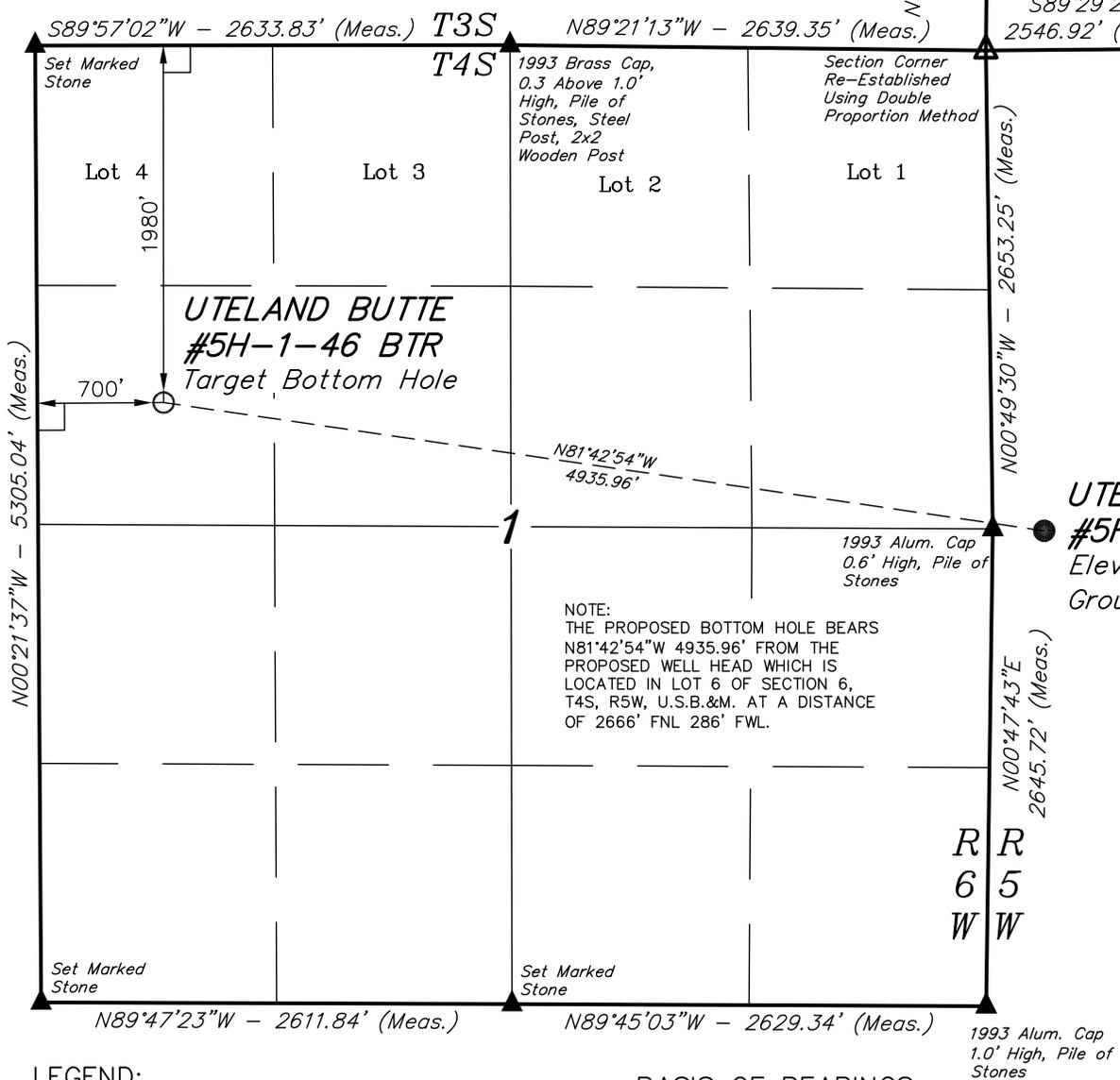
NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°09'42.81" (40.161892)	LONGITUDE = 110°30'03.62" (110.501006)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°09'42.96" (40.161933)	LONGITUDE = 110°30'01.06" (110.500294)

SCALE 1" = 1000'	DATE SURVEYED: 11-01-10	DATE DRAWN: 12-22-10
PARTY T.A. C.N. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	

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

BILL BARRETT CORPORATION

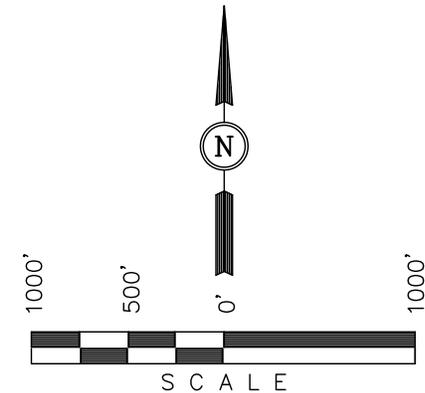
Well location, UTELAND BUTTE #5H-1-46 BTR (TARGET BOTTOM HOLE), located as shown in the SW 1/4 NW 1/4 of Section 1, T4S, R6W, U.S.B.&M., Duchesne County, Utah.



N 1/4 Cor. Sec. 6,
1993 Alum. Cap 0.3' High,
Pile of Stones

BASIS OF ELEVATION

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



UTELAND BUTTE #5H-1-46 BTR
Elev. Ungraded
Ground = 5939'

NOTE:
THE PROPOSED BOTTOM HOLE BEARS N81°42'54"W 4935.96' FROM THE PROPOSED WELL HEAD WHICH IS LOCATED IN LOT 6 OF SECTION 6, T4S, R5W, U.S.B.&M. AT A DISTANCE OF 2666' FNL 286' FWL.

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
10-18-11

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

LEGEND:

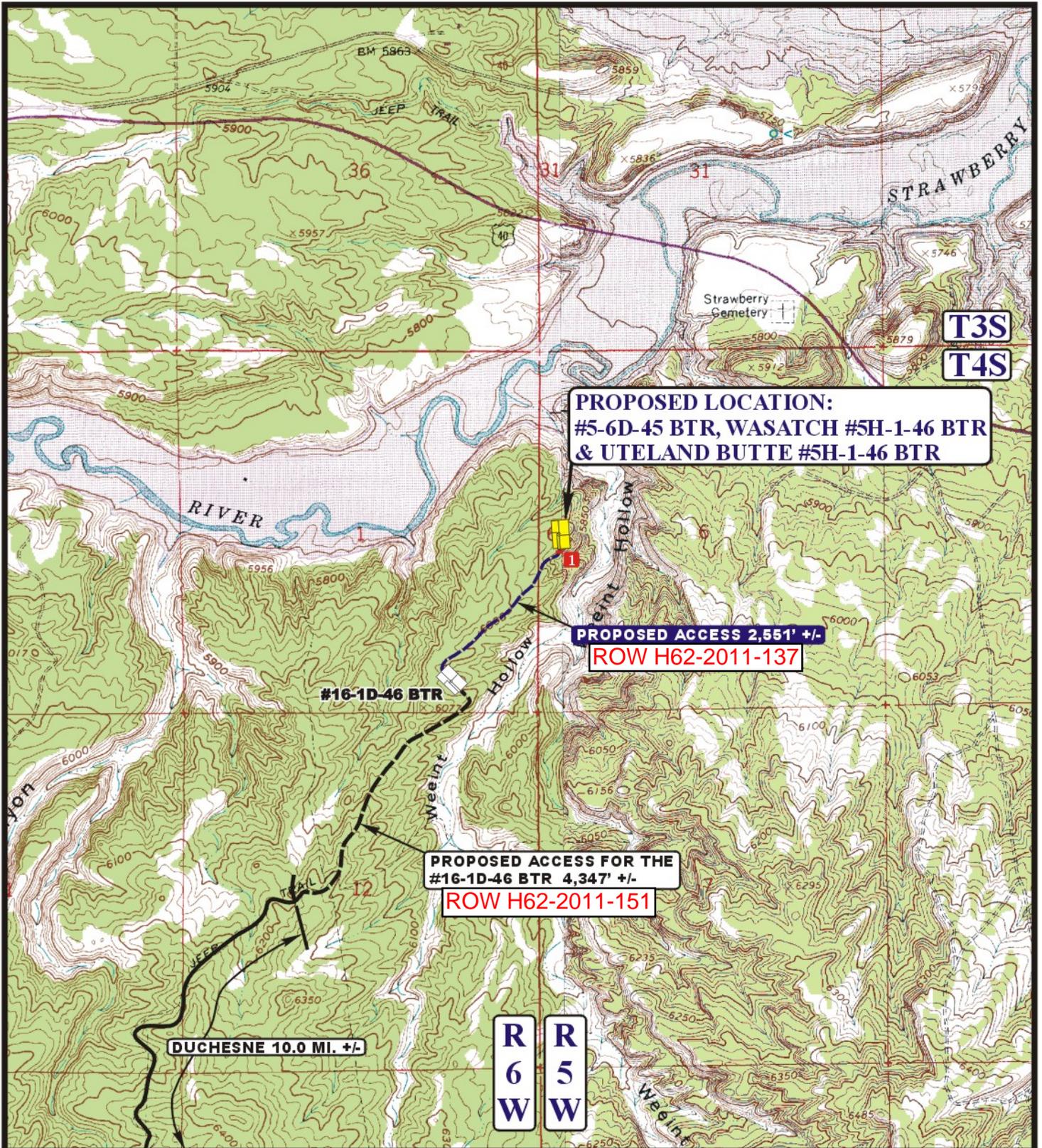
- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED.
(Not Set on Ground.)

BASIS OF BEARINGS

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

NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE = 40°09'49.75" (40.163819)	LONGITUDE = 110°31'06.53" (110.518481)
NAD 27 (TARGET BOTTOM HOLE)	
LATITUDE = 40°09'49.90" (40.163861)	LONGITUDE = 110°31'03.97" (110.517769)

SCALE 1" = 1000'	DATE SURVEYED: 11-01-10	DATE DRAWN: 10-13-11
PARTY T.A. C.N. S.B.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	



LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  18" CMP REQUIRED



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



BILL BARRETT CORPORATION

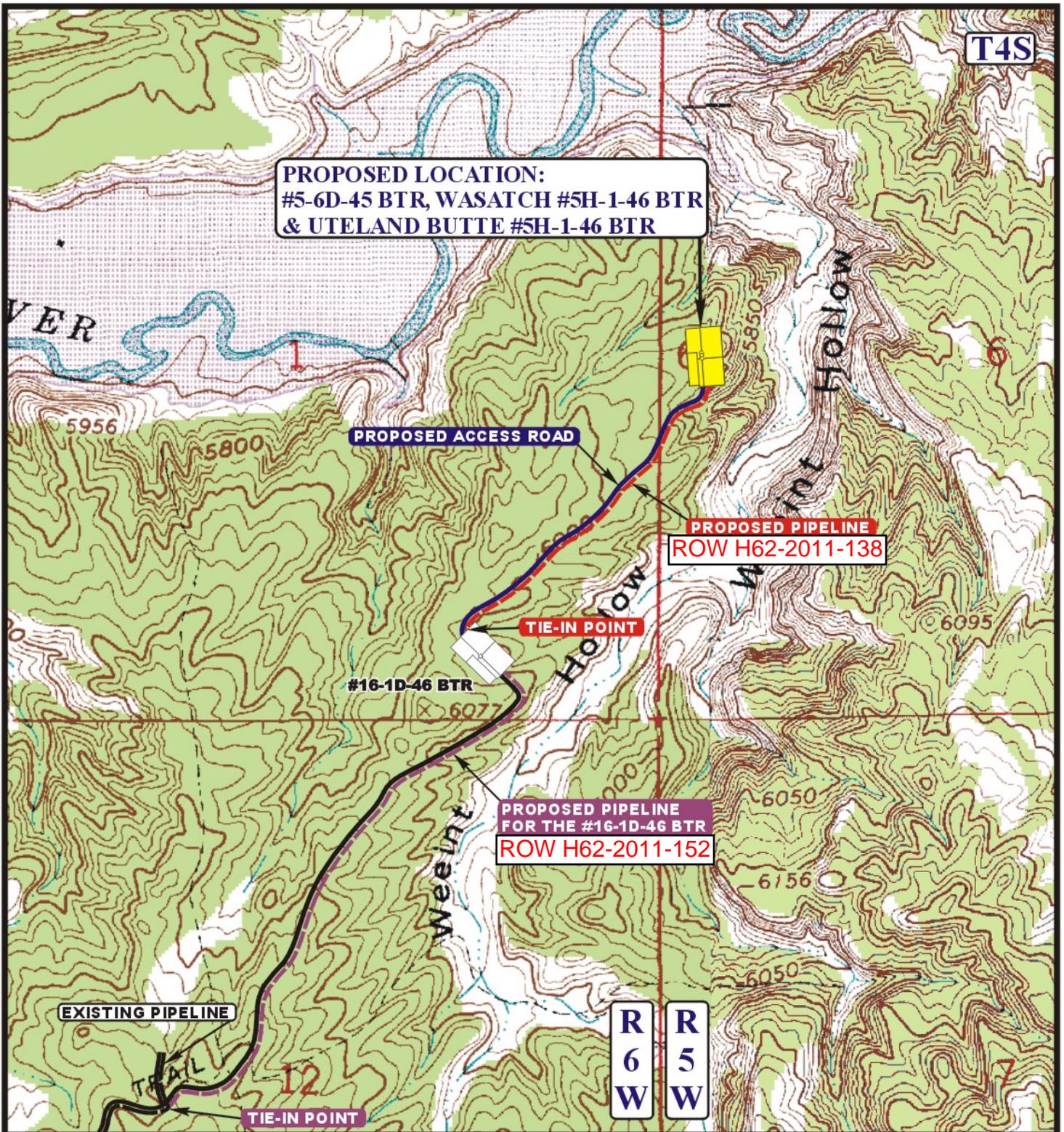
#5-6D-45 BTR, WASATCH #5H-1-46 BTR
 & UTELAND BUTTE #5H-1-46 BTR
 SECTION 6, T4S, R5W, U.S.B.&M.
 LOT 5 & LOT 6

TOPOGRAPHIC MAP

12 01 10
 MONTH DAY YEAR



SCALE: 1" = 2000' DRAWN BY: Z.L. REV: 10-06-11 C.I.



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,495' +/-

LEGEND:

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

BILL BARRETT CORPORATION

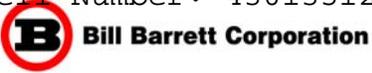
#5-6D-45 BTR, WASATCH #5H-1-46 BTR
 & UTELAND BUTTE #5H-1-46 BTR
 SECTION 6, T4S, R5W, U.S.B.&M.
 LOT 5 & LOT 6

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



TOPOGRAPHIC MAP 12 01 10
MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: Z.L. REV: 10-06-11 C.I.





COMPANY DETAILS: BILL BARRETT CORP	
Calculation Method:	Minimum Curvature
Error System:	ISCWSA
Scan Method:	Closest Approach 3D
Error Surface:	Elliptical Conic
Warning Method:	Error Ratio

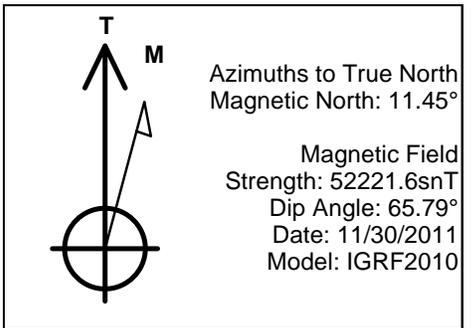
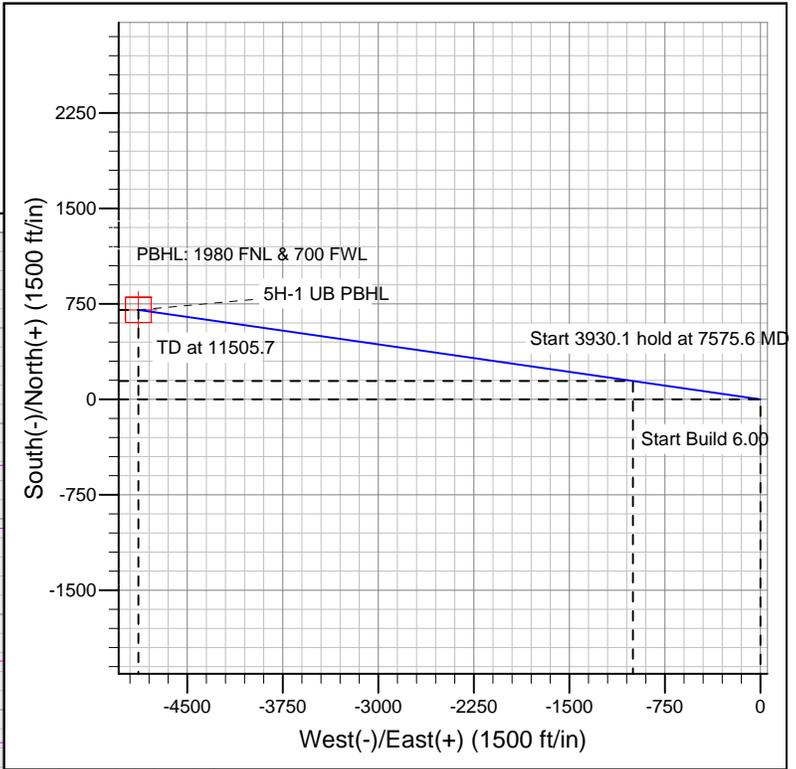
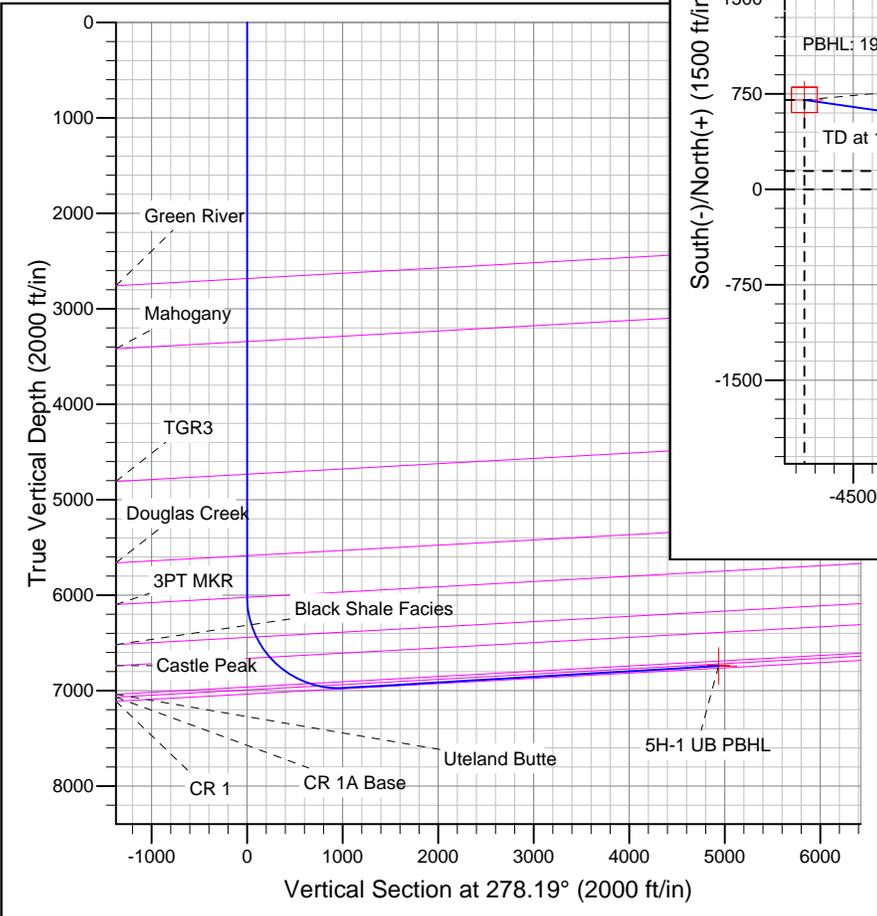
SITE DETAILS: 5H-1-46 UB BTR	
Blacktail Ridge	
Site Centre Latitude:	40° 9' 42.959 N
Longitude:	110° 30' 1.058 W
Positional Uncertainty:	0.0
Convergence:	0.64
Local North:	True

WELLBORE TARGET DETAILS (LAT/LONG)						
Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
5H-1 UB PBHL	6743.0	702.8	-4883.9	40° 9' 49.900 N	110° 31' 3.968 W	Rectangle (Sides: L200.0 W200.0)

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6019.7	0.00	0.00	6019.7	0.0	0.0	0.00	0.00	0.0	
3	7575.6	93.35	278.19	6973.0	144.0	-1000.5	6.00	278.19	1010.8	
4	11505.7	93.35	278.19	6743.0	702.8	-4883.9	0.00	0.00	4934.2	
5	1505.7	0.00	0.00	6743.0	702.8	-4883.9	0.00	180.00	4934.2	5H-1 UB PBHL

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2683.0	2683.0	CR 1
3343.0	3343.0	Green River
4733.0	4733.0	Mahogany
5588.0	5588.0	TGR3
6023.0	6023.0	Douglas Creek
6437.7	6452.3	3PT MKR
6649.9	6708.0	Black Shale Facies
6926.9	7216.4	Castle Peak
6951.9	7310.7	Uteland Butte
		CR 1A Base

CASING DETAILS
No casing data is available



BILL BARRETT CORP

DUCHESNE COUNTY, UT (NAD 27)

5H-1-46 UB BTR

5H-1-46 UB BTR

5H-1-46 UB BTR

Plan: Design #1

Standard Planning Report

27 December, 2011

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 UB BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5954.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5954.0ft (Original Well Elev)
Site:	5H-1-46 UB BTR	North Reference:	True
Well:	5H-1-46 UB BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 UB BTR		
Design:	Design #1		

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

Site	5H-1-46 UB BTR				
Site Position:		Northing:	667,590.99 ft	Latitude:	40° 9' 42.959 N
From:	Lat/Long	Easting:	2,279,395.74 ft	Longitude:	110° 30' 1.058 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.64 °

Well	5H-1-46 UB BTR					
Well Position	+N/-S	0.0 ft	Northing:	667,590.99 ft	Latitude:	40° 9' 42.959 N
	+E/-W	0.0 ft	Easting:	2,279,395.74 ft	Longitude:	110° 30' 1.058 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,939.0 ft

Wellbore	5H-1-46 UB BTR				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/30/2011	11.45	65.79	52,222

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	278.19

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,019.7	0.00	0.00	6,019.7	0.0	0.0	0.00	0.00	0.00	0.00	
7,575.6	93.35	278.19	6,973.0	144.0	-1,000.5	6.00	6.00	0.00	278.19	
11,505.7	93.35	278.19	6,743.0	702.8	-4,883.9	0.00	0.00	0.00	0.00	
11,505.7	0.00	0.00	6,743.0	702.8	-4,883.9	0.00	0.00	0.00	180.00	5H-1 UB PBHL

Bill Barrett Corp

Planning Report

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Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5954.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5954.0ft (Original Well Elev)
Site:	5H-1-46 UB BTR	North Reference:	True
Well:	5H-1-46 UB BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 UB BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,683.0	0.00	0.00	2,683.0	0.0	0.0	0.0	0.00	0.00	0.00
Green River									
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,343.0	0.00	0.00	3,343.0	0.0	0.0	0.0	0.00	0.00	0.00
Mahogany									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,733.0	0.00	0.00	4,733.0	0.0	0.0	0.0	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 UB BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5954.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5954.0ft (Original Well Elev)
Site:	5H-1-46 UB BTR	North Reference:	True
Well:	5H-1-46 UB BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 UB BTR		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
TGR3										
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,588.0	0.00	0.00	5,588.0	0.0	0.0	0.0	0.00	0.00	0.00	
Douglas Creek										
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,019.7	0.00	0.00	6,019.7	0.0	0.0	0.0	0.00	0.00	0.00	
6,023.0	0.20	278.19	6,023.0	0.0	0.0	0.0	6.00	6.00	0.00	
3PT MKR										
6,100.0	4.82	278.19	6,099.9	0.5	-3.3	3.4	6.00	6.00	0.00	
6,200.0	10.82	278.19	6,198.9	2.4	-16.8	17.0	6.00	6.00	0.00	
6,300.0	16.82	278.19	6,296.0	5.8	-40.4	40.8	6.00	6.00	0.00	
6,400.0	22.82	278.19	6,390.0	10.6	-74.0	74.7	6.00	6.00	0.00	
6,452.3	25.96	278.19	6,437.7	13.7	-95.4	96.3	6.00	6.00	0.00	
Black Shale Facies										
6,500.0	28.82	278.19	6,480.0	16.8	-117.1	118.3	6.00	6.00	0.00	
6,600.0	34.82	278.19	6,564.9	24.4	-169.2	171.0	6.00	6.00	0.00	
6,700.0	40.82	278.19	6,643.9	33.1	-229.9	232.2	6.00	6.00	0.00	
6,708.0	41.30	278.19	6,649.9	33.8	-235.1	237.5	6.00	6.00	0.00	
Castle Peak										
6,800.0	46.82	278.19	6,716.0	42.9	-298.4	301.5	6.00	6.00	0.00	
6,900.0	52.82	278.19	6,780.5	53.8	-374.0	377.8	6.00	6.00	0.00	
7,000.0	58.82	278.19	6,836.7	65.6	-455.8	460.5	6.00	6.00	0.00	
7,100.0	64.82	278.19	6,883.9	78.1	-543.0	548.6	6.00	6.00	0.00	
7,200.0	70.82	278.19	6,921.6	91.3	-634.6	641.2	6.00	6.00	0.00	
7,216.4	71.80	278.19	6,926.9	93.5	-650.0	656.7	6.00	6.00	0.00	
Uteland Butte										
7,300.0	76.82	278.19	6,949.5	105.0	-729.6	737.2	6.00	6.00	0.00	
7,310.7	77.46	278.19	6,951.9	106.5	-740.0	747.6	6.00	6.00	0.00	
CR 1A Base										
7,400.0	82.82	278.19	6,967.1	119.0	-827.0	835.5	6.00	6.00	0.00	
7,500.0	88.82	278.19	6,974.4	133.2	-925.7	935.2	6.00	6.00	0.00	
7,575.6	93.35	278.19	6,973.0	144.0	-1,000.5	1,010.8	6.00	6.00	0.00	
7,600.0	93.35	278.19	6,971.6	147.4	-1,024.6	1,035.2	0.00	0.00	0.00	
7,700.0	93.35	278.19	6,965.7	161.7	-1,123.4	1,135.0	0.00	0.00	0.00	
7,800.0	93.35	278.19	6,959.9	175.9	-1,222.2	1,234.8	0.00	0.00	0.00	
7,900.0	93.35	278.19	6,954.0	190.1	-1,321.0	1,334.6	0.00	0.00	0.00	
8,000.0	93.35	278.19	6,948.2	204.3	-1,419.8	1,434.5	0.00	0.00	0.00	
8,100.0	93.35	278.19	6,942.3	218.5	-1,518.7	1,534.3	0.00	0.00	0.00	
8,200.0	93.35	278.19	6,936.5	232.7	-1,617.5	1,634.1	0.00	0.00	0.00	
8,300.0	93.35	278.19	6,930.6	247.0	-1,716.3	1,734.0	0.00	0.00	0.00	
8,400.0	93.35	278.19	6,924.8	261.2	-1,815.1	1,833.8	0.00	0.00	0.00	
8,500.0	93.35	278.19	6,918.9	275.4	-1,913.9	1,933.6	0.00	0.00	0.00	

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 5H-1-46 UB BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5954.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5954.0ft (Original Well Elev)
Site:	5H-1-46 UB BTR	North Reference:	True
Well:	5H-1-46 UB BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	5H-1-46 UB BTR		
Design:	Design #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.0	93.35	278.19	6,913.0	289.6	-2,012.7	2,033.4	0.00	0.00	0.00
8,700.0	93.35	278.19	6,907.2	303.8	-2,111.5	2,133.3	0.00	0.00	0.00
8,800.0	93.35	278.19	6,901.3	318.1	-2,210.3	2,233.1	0.00	0.00	0.00
8,900.0	93.35	278.19	6,895.5	332.3	-2,309.1	2,332.9	0.00	0.00	0.00
9,000.0	93.35	278.19	6,889.6	346.5	-2,408.0	2,432.8	0.00	0.00	0.00
9,100.0	93.35	278.19	6,883.8	360.7	-2,506.8	2,532.6	0.00	0.00	0.00
9,200.0	93.35	278.19	6,877.9	374.9	-2,605.6	2,632.4	0.00	0.00	0.00
9,300.0	93.35	278.19	6,872.1	389.2	-2,704.4	2,732.2	0.00	0.00	0.00
9,400.0	93.35	278.19	6,866.2	403.4	-2,803.2	2,832.1	0.00	0.00	0.00
9,500.0	93.35	278.19	6,860.4	417.6	-2,902.0	2,931.9	0.00	0.00	0.00
9,600.0	93.35	278.19	6,854.5	431.8	-3,000.8	3,031.7	0.00	0.00	0.00
9,700.0	93.35	278.19	6,848.7	446.0	-3,099.6	3,131.6	0.00	0.00	0.00
9,800.0	93.35	278.19	6,842.8	460.2	-3,198.4	3,231.4	0.00	0.00	0.00
9,900.0	93.35	278.19	6,837.0	474.5	-3,297.3	3,331.2	0.00	0.00	0.00
10,000.0	93.35	278.19	6,831.1	488.7	-3,396.1	3,431.0	0.00	0.00	0.00
10,100.0	93.35	278.19	6,825.3	502.9	-3,494.9	3,530.9	0.00	0.00	0.00
10,200.0	93.35	278.19	6,819.4	517.1	-3,593.7	3,630.7	0.00	0.00	0.00
10,300.0	93.35	278.19	6,813.6	531.3	-3,692.5	3,730.5	0.00	0.00	0.00
10,400.0	93.35	278.19	6,807.7	545.6	-3,791.3	3,830.4	0.00	0.00	0.00
10,500.0	93.35	278.19	6,801.9	559.8	-3,890.1	3,930.2	0.00	0.00	0.00
10,600.0	93.35	278.19	6,796.0	574.0	-3,988.9	4,030.0	0.00	0.00	0.00
10,700.0	93.35	278.19	6,790.2	588.2	-4,087.7	4,129.8	0.00	0.00	0.00
10,800.0	93.35	278.19	6,784.3	602.4	-4,186.5	4,229.7	0.00	0.00	0.00
10,900.0	93.35	278.19	6,778.4	616.7	-4,285.4	4,329.5	0.00	0.00	0.00
11,000.0	93.35	278.19	6,772.6	630.9	-4,384.2	4,429.3	0.00	0.00	0.00
11,100.0	93.35	278.19	6,766.7	645.1	-4,483.0	4,529.2	0.00	0.00	0.00
11,200.0	93.35	278.19	6,760.9	659.3	-4,581.8	4,629.0	0.00	0.00	0.00
11,300.0	93.35	278.19	6,755.0	673.5	-4,680.6	4,728.8	0.00	0.00	0.00
11,400.0	93.35	278.19	6,749.2	687.7	-4,779.4	4,828.6	0.00	0.00	0.00
11,500.0	5.03	278.19	6,808.3	697.5	-4,847.1	4,897.1	88.32	-88.32	0.00
11,505.7	0.00	0.00	6,743.0	702.8	-4,883.9	4,934.2	88.32	-88.32	0.00

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,683.0	2,683.0	Green River		-3.15	278.19
3,343.0	3,343.0	Mahogany		-3.15	278.19
4,733.0	4,733.0	TGR3		-3.15	278.19
5,588.0	5,588.0	Douglas Creek		-3.15	278.19
6,023.0	6,023.0	3PT MKR		-3.15	278.19
6,452.3	6,443.0	Black Shale Facies		-3.15	278.19
6,708.0	6,663.0	Castle Peak		-3.15	278.19
7,216.4	6,963.0	Uteland Butte		-3.15	278.19
7,310.7	6,993.0	CR 1A Base		-3.15	278.19
	7,038.0	CR 1		-3.15	278.19

SURFACE USE PLAN

BILL BARRETT CORPORATION

5-6D-45 BTR Well Pad

Lot 5 (SWNW), 2634' FNL and 283' FWL, Section 6, T4S-R5W, USB&M (surface hole)

Lot 5 (SWNW), 2090' FNL and 810' FWL, Section 6, T4S-R5W, USB&M (bottom hole)

Duchesne County, Utah

<p style="text-align: center;">5H-1-46 BTR Uteland Butte</p> <p>Lot 6 (NWSW), 2666' FNL & 286' FWL, Sec. 6, T4S-R5W, USB&M (surface hole) SWNW, 1980' FNL & 700' FWL, Sec. 1, T4S-R6W, USB&M (bottom hole) Duchesne County, Utah</p>	<p style="text-align: center;">5H-1-46 BTR Wasatch</p> <p>Lot 5 (SWNW), 2650' FNL & 284' FWL, Sec. 6, T4S-R5W, USB&M (surface hole) SWNW, 1980' FNL & 700' FWL, Sec. 1, T4S-R6W, USB&M (bottom hole) Duchesne County, Utah</p>
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The 5-6D-45 BTR was previously approved by the BLM on 08/17/2011 with secured right of ways from the BIA for the wellpad (H62-2011-137), access road (H62-2011-137) and pipeline (H62-2011-138). BBC now plans to add two horizontal wells to be drilled from this pad. Because of this addition of wells, it was necessary to expand the pad area 15', 0.105 acres (from 3.151 acres to 3.256 acres). BIA concurrence was received on 12/13/2011 (see letter attached) and an administrative modification for existing right of way on tribal lands was approved on 01/19/2012 (see ROW amendment attached).

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 11.3 miles southwest 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 State Highway 191 would be utilized from Duchesne for 3.5 miles to the existing BBC maintained Skitzzy Road that would be utilized for 5 miles to the existing access for the 6-12-46 BTR. The access for the proposed 16-1D-46 BTR would be utilized to access this location.
- 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.

Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

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

2. Planned Access Road:

- a. Approximately 2,551 feet of access road trending northeast was previously approved under ROW H62-2011-137 and is planned from the approved 16-1D-46 BTR access road (ROW H62-2011-151). The 16-1D-46 BTR access continues an additional 4,347 feet to the existing 6-12-46 BTR well site access road (see Topographic Map B).
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed.

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Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

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.
- i. One 18 inch culvert or low-water crossing as the road enters the pad is 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 three

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (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 ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.

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- b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.
- a. 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.
- b. 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.
- c. 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.
- d. Approximately 2,495 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) was previously approved under ROW H62-2011-138, trending southwest to the approved 16-1D-46 BTR pipeline corridor (ROW H62-2011-152). The 16-1D-46 BTR pipeline corridor continues 4,347' to the existing pipeline corridor for the 6-12-46 BTR. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- e. 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.
- f. 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.

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 5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
 Duchesne County, UT

- g. 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.
- h. 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. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- i. 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.
- j. 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
43-2505, Appln t37379	McKinnon Ranch Properties, LC	1.3 cfs	4/28/2011	Pumped from Sec, 17, T4SR6W	Water Canyon Lake
43-12415, Change	Peatross	1.89 cfs	09/2011	Dugout Pond	Strawberry

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Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
A17215a	Ranch, LLC				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.
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 12 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

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- 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:

Disposal Facilities
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
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 CO₂ 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

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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, 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.
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 415 feet x 255 (previously approved at 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.

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- 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 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 will be submitted within 90 days of location construction.
 - 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.

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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. 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 – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 10-270 dated 1-17-2011. No additional archeological work is needed for the 15' pad expansion.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

- 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.
- d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.256	acres
Access	2,551 feet	1.757	acres
Pipeline	2,495 feet	1.718	acres
	Total	6.731	acres

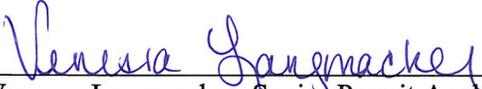
Bill Barrett Corporation
Surface Use Plan
5-6D-45 BTR Well Pad (5H-1-46 BTR UB & 5H-1-46 BTR TW)
Duchesne County, UT

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.

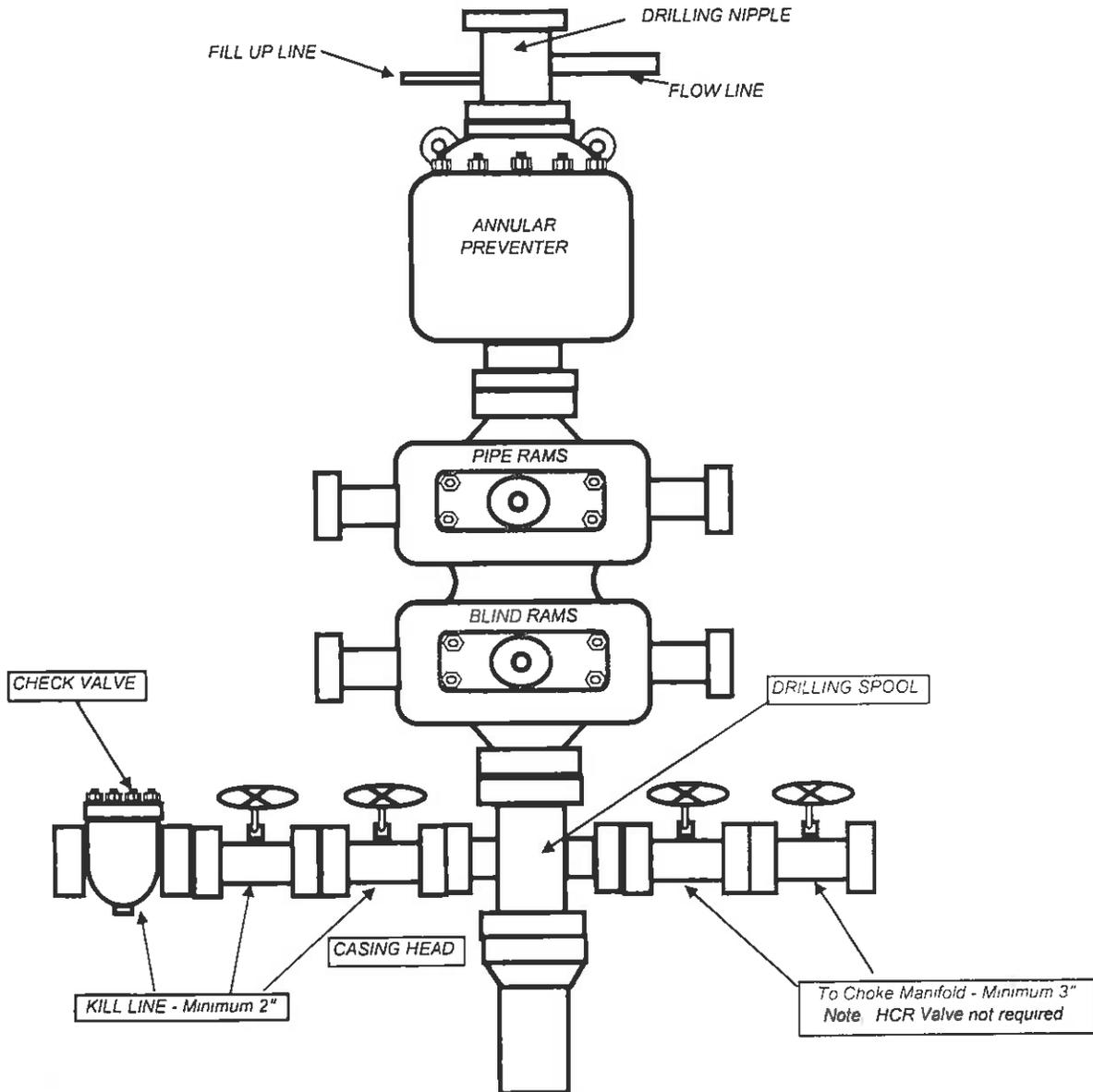
Executed this 2nd day of February 2012
Name: Venessa Langmacher
Position Title: Senior Permit Analyst
Address: 1099 18th Street, Suite 2300, Denver, CO 80202
Telephone: 303-312-8172
E-mail: vlangmacher@billbarrettcorp.com
Field Representative Kary Eldredge / Bill Barrett Corporation
Address: 1820 W. Highway 40, Roosevelt, UT 84066
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)
E-mail: keldredge@billbarrettcorp.com



Venessa Langmacher, Senior Permit Analyst

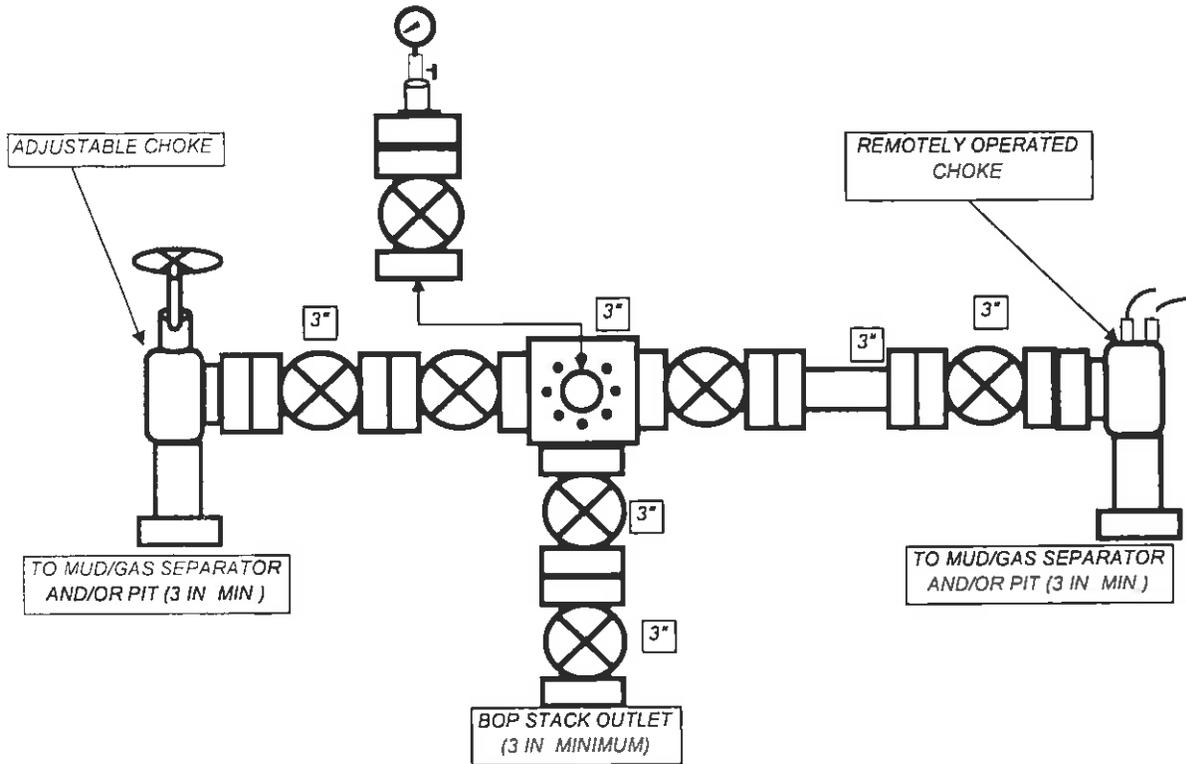
BILL BARRETT CORPORATION

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



BILL BARRETT CORPORATION

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





February 2, 2012

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: **Exception Location – UTELAND BUTTE #5H-1-46 BTR – Blacktail Ridge Area**
Surface Location: 2,666' FNL, 286' FWL, Lot 6 (NWSW), Section 6-T4S-R5W
Bottom Location: 1,980' FNL, 700' FWL, SWNW, Section 1-T4S-R6W
Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation (“BBC”) hereby submits an exception location letter in accordance with Oil & Gas Conservation Order #139-84, requesting an exception well location, supported by the following information:

- The location is within our Blacktail Ridge Area.
- BBC is requesting an exception to Spacing Order #139-84 by drilling multiple well bores from a single well pad where the horizontal wellbore will strictly produce hydrocarbons from the Uteland Butte formation and the other vertical wellbore will produce from formations excluding the Uteland Butte. This well configuration results in the wellbores being closer than the 1,320 feet allowed by spacing order.
- This will allow for a more efficient drainage of the reservoir formation being targeted.
- The exception location is due to topography requirements and to minimize surface disturbance.
- BBC certifies that it is the working interest owner along with Ute Energy, LLC (who also consent to this exception location request), and together we own 100% of the working interest within 460 feet of the proposed well location.
- Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.

Based on the information provided, BBC requests the Division grant this exception to the locating, siting and spacing requirements of Order #139-84. 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 'for' written below it.

David Watts
Landman

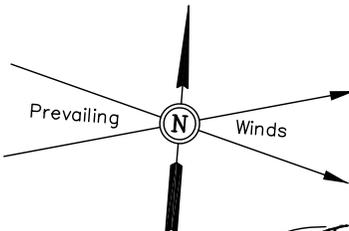
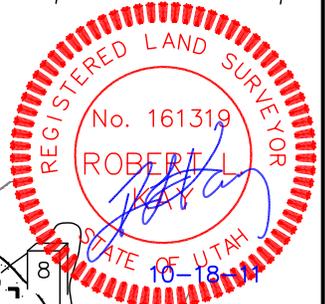
dwatts@billbarrettcorp.com

BILL BARRETT CORPORATION

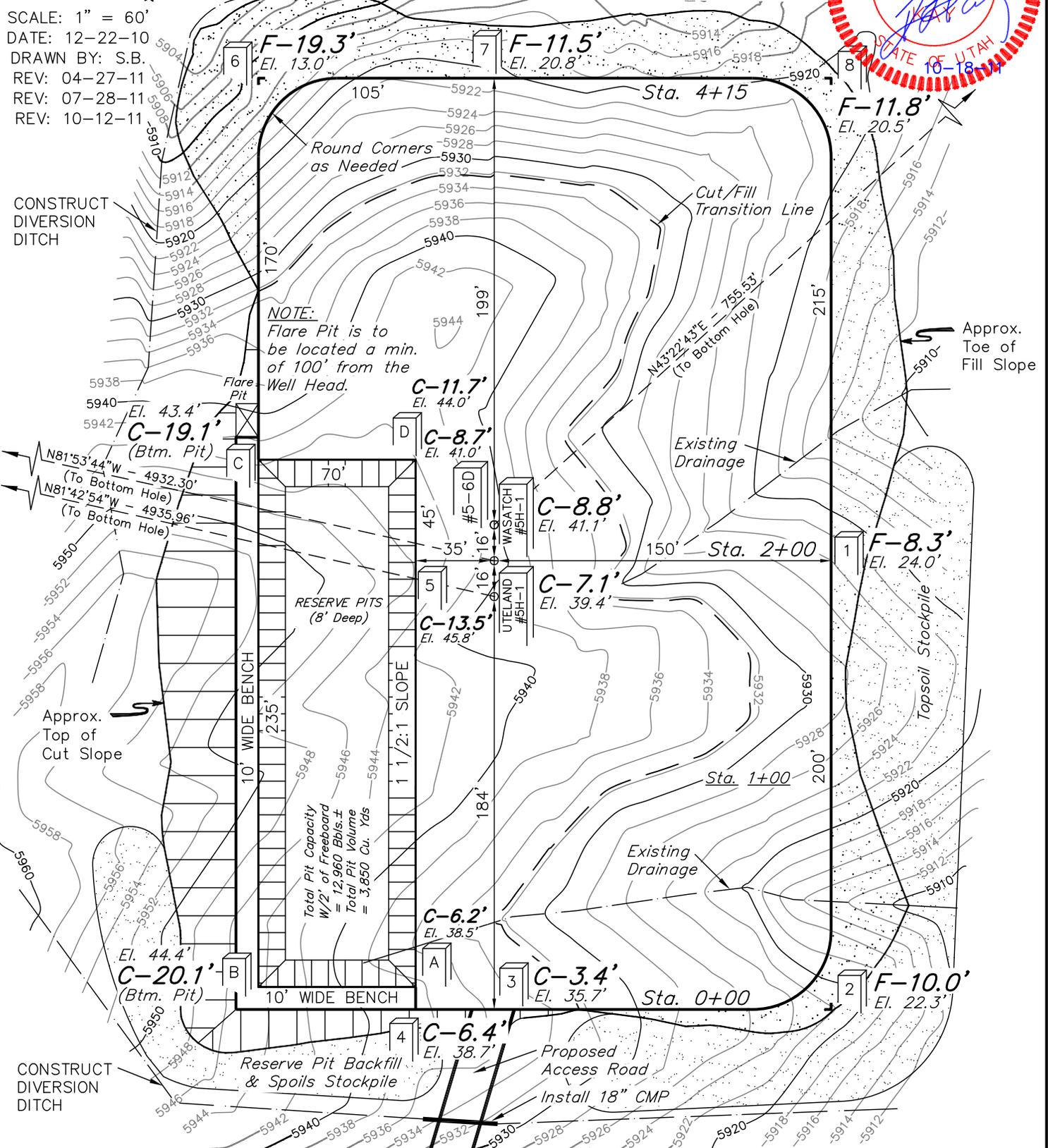
LOCATION LAYOUT FOR

#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6

FIGURE #1



SCALE: 1" = 60'
DATE: 12-22-10
DRAWN BY: S.B.
REV: 04-27-11
REV: 07-28-11
REV: 10-12-11



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

Total Pit Capacity
W/2' of Freeboard
= 12,960 Bbls.±
Total Pit Volume
= 3,850 Cu. Yds

CONSTRUCT DIVERSION DITCH

Elev. Ungraded Ground At WASATCH #5H-1 Loc. Stake = 5941.1' UINTEH ENGINEERING & LAND SURVEYING
FINISHED GRADE ELEV. AT WASATCH #5H-1 LOC. STAKE = 5932.3' 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BILL BARRETT CORPORATION

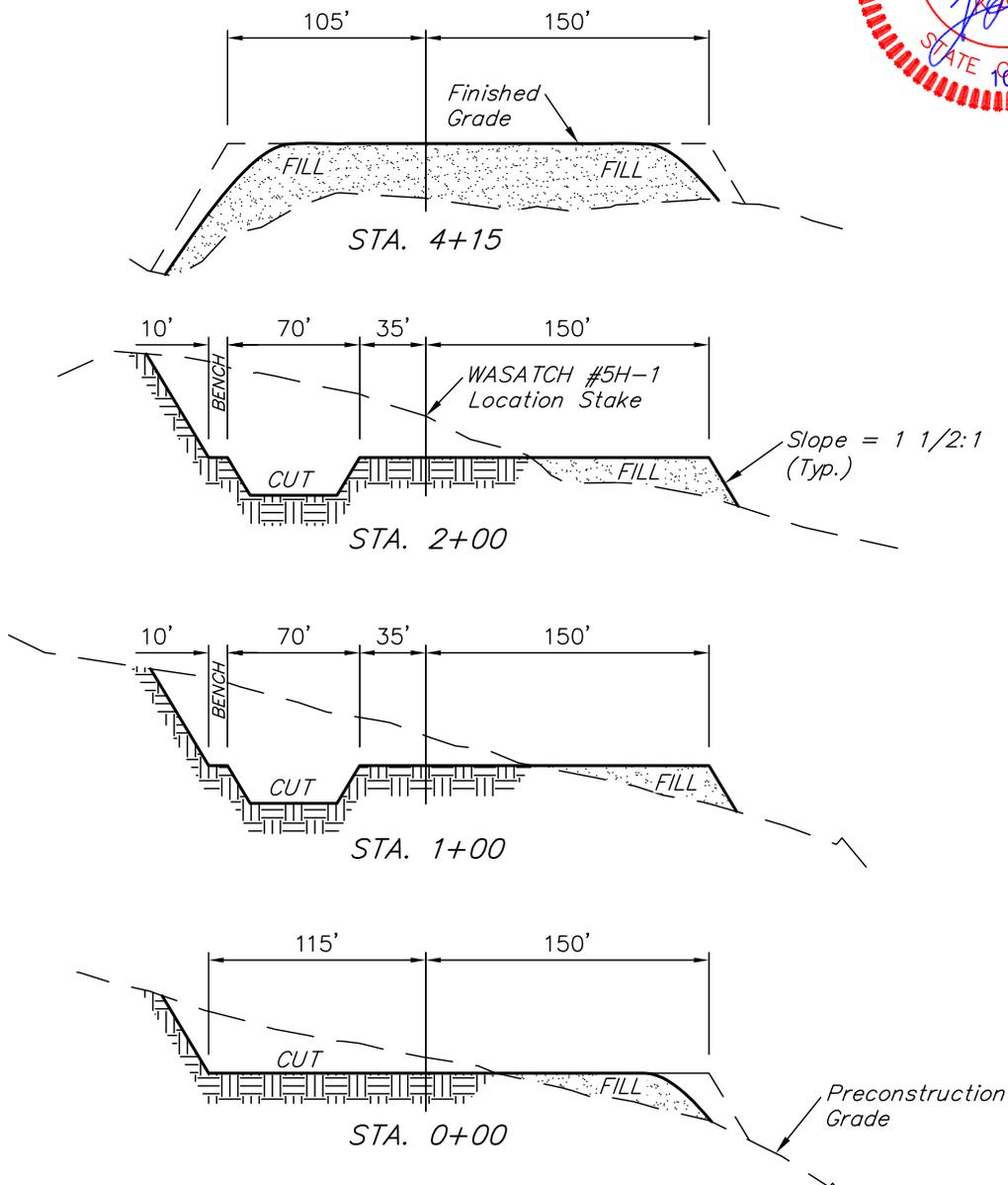
TYPICAL CROSS SECTIONS FOR

**#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6**

FIGURE #2

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

DATE: 12-22-10
DRAWN BY: S.B.
REV: 07-28-11
REV: 10-12-11



NOTE:

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

* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	5,420 Cu. Yds.
Remaining Location	=	22,310 Cu. Yds.
TOTAL CUT	=	27,730 CU.YDS.
FILL	=	20,390 CU.YDS.

EXCESS MATERIAL	=	7,340 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	7,340 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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

BILL BARRETT CORPORATION

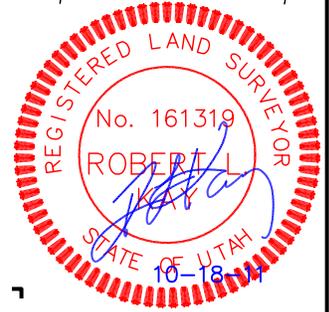
TYPICAL RIG LAYOUT FOR

#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
 UTELAND BUTTE #5H-1-46 BTR
 SECTION 6, T4S, R5W, U.S.B.&M.
 LOT 5 & LOT 6

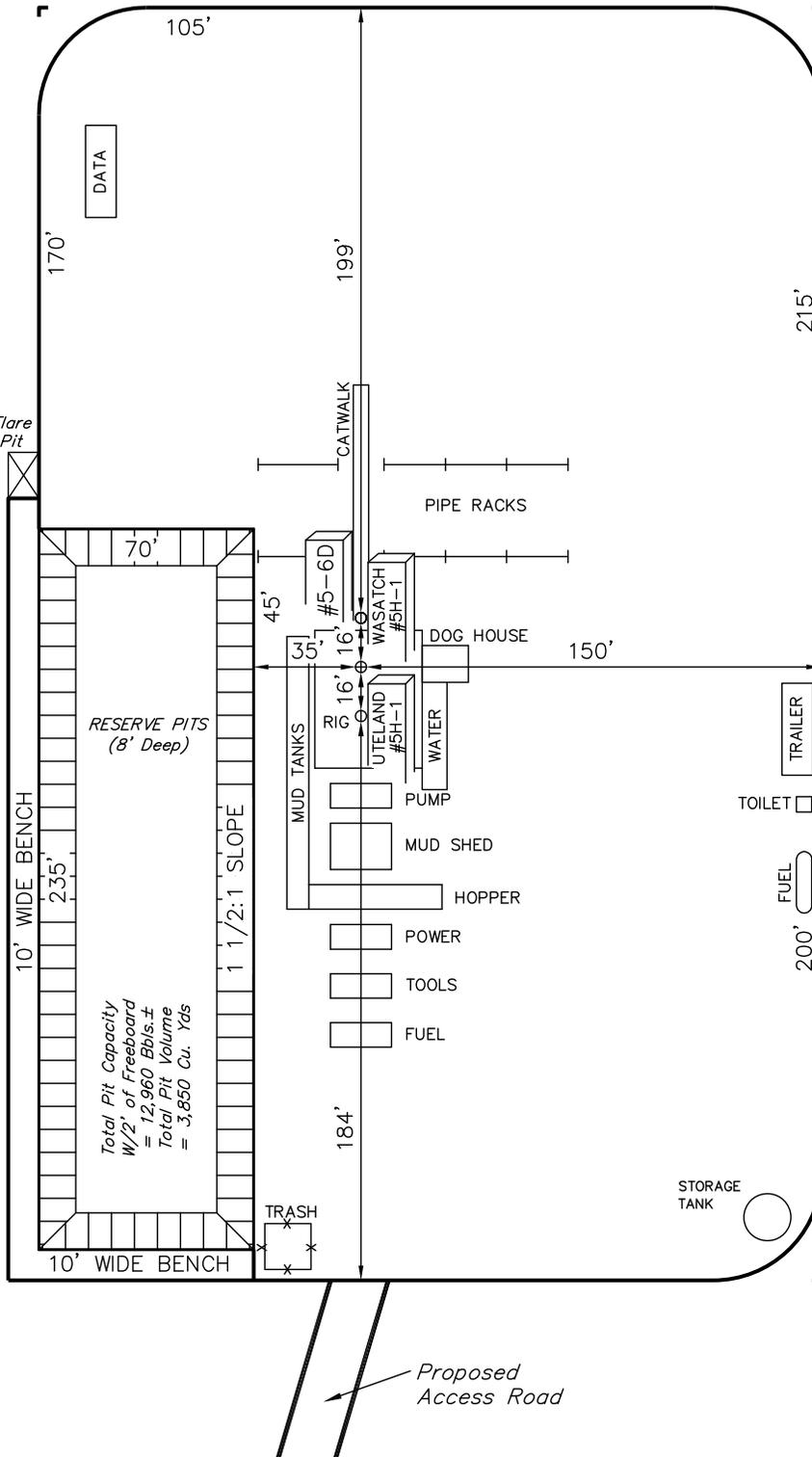
FIGURE #3



SCALE: 1" = 60'
 DATE: 12-22-10
 DRAWN BY: S.B.
 REV: 07-28-11
 REV: 10-12-11



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



BILL BARRETT CORPORATION

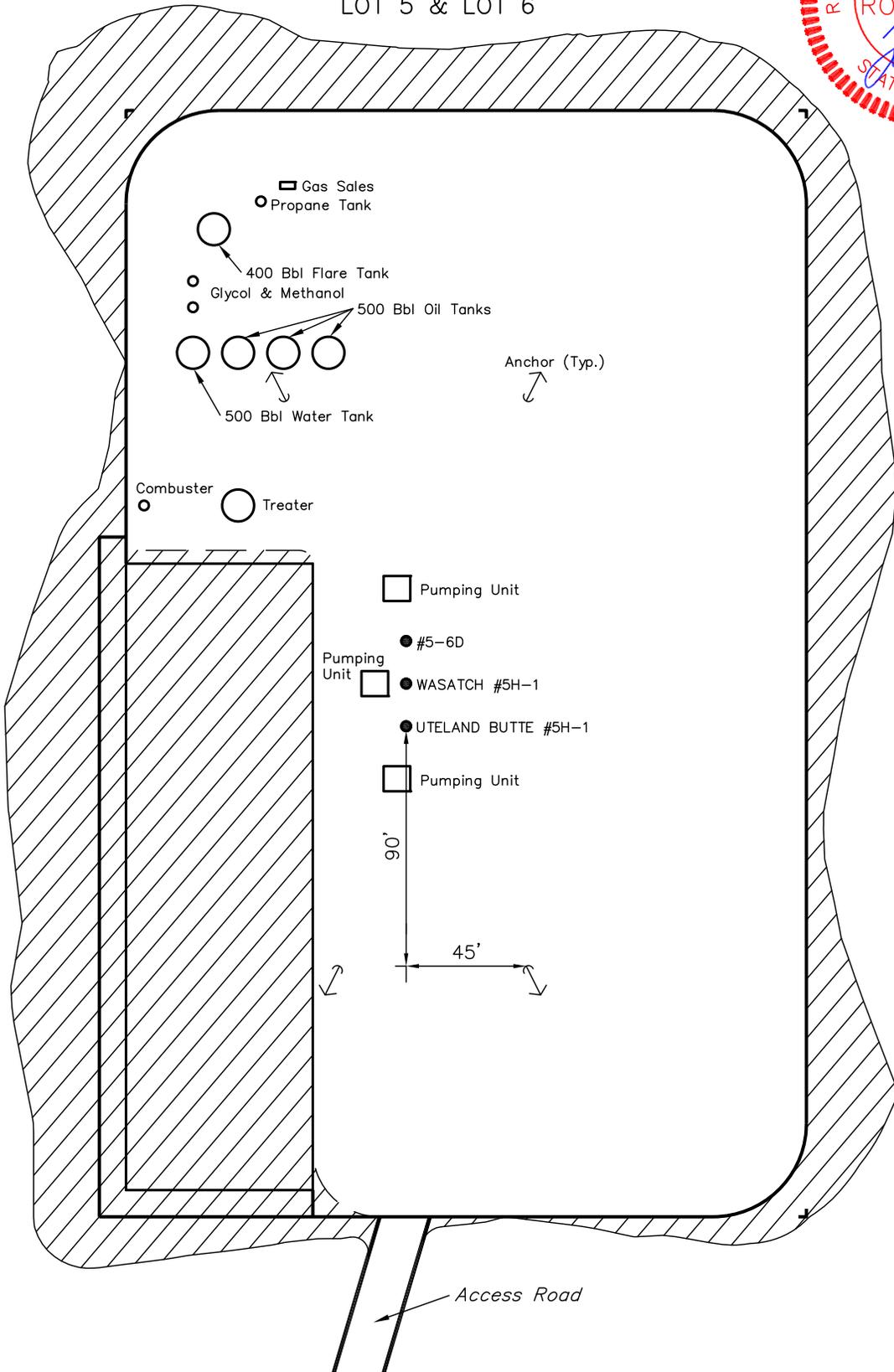
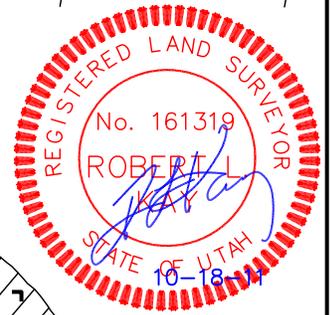
INTERIM RECLAMATION PLAN FOR

#5-6D-45 BTR, WASATCH #5H-1-46 BTR &
UTELAND BUTTE #5H-1-46 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
LOT 5 & LOT 6

FIGURE #4



SCALE: 1" = 60'
DATE: 07-28-11
DRAWN BY: S.B.
REV: 10-12-11

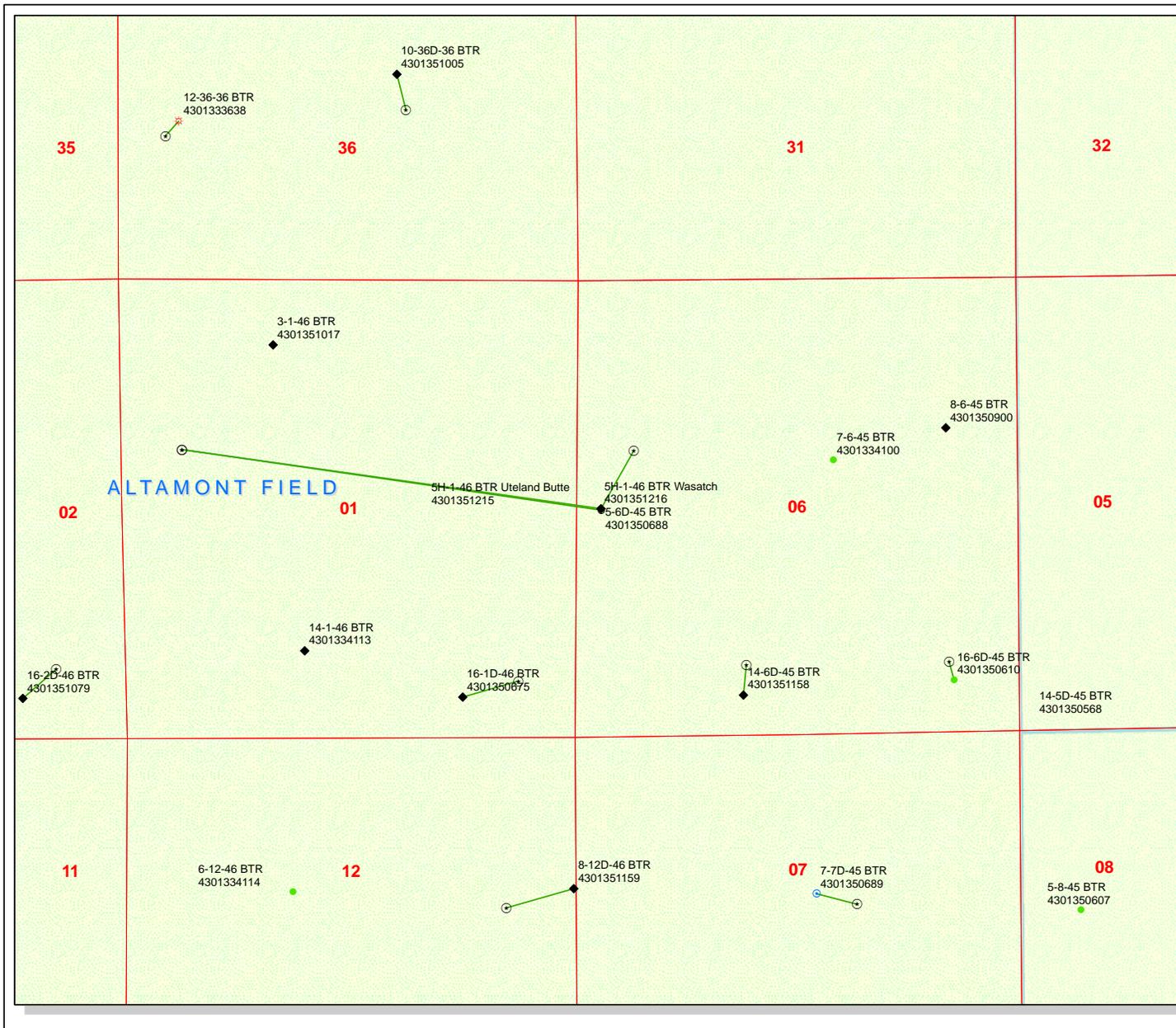


 INTERIM RECLAMATION

APPROXIMATE ACRES
UN-RECLAIMED = ± 2.007 ACRES

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

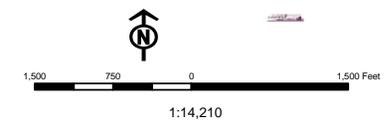
RECEIVED: February 02, 2012



API Number: 4301351215
Well Name: 5H-1-46 BTR Uteland Butte
Township T0.4 . Range R0.5 . Section 06
Meridian: UBM
Operator: BILL BARRETT CORP

Map Prepared:
 Map Produced by Diana Mason

- | Units STATUS | Wells Query Status |
|--------------|------------------------------------|
| 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 GEOTHERM | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| | SGW - Shut-in Gas Well |
| | SOW - Shut-in Oil Well |
| | TA - Temp. Abandoned |
| | TW - Test Well |
| | WDW - Water Disposal |
| | WIW - Water Injection Well |
| | WSW - Water Supply Well |



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/2/2012

API NO. ASSIGNED: 43013512150000

WELL NAME: 5H-1-46 BTR Uteland Butte

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWSW 06 040S 050W

Permit Tech Review:

SURFACE: 2666 FNL 0286 FWL

Engineering Review:

BOTTOM: 1980 FNL 0700 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.16179

LONGITUDE: -110.50101

UTM SURF EASTINGS: 542493.00

NORTHINGS: 4445834.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

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: 43-180
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
27 - Other - bhll



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: 5H-1-46 BTR Uteland Butte
API Well Number: 43013512150000
Lease Number: 2OG0005608
Surface Owner: INDIAN
Approval Date: 2/15/2012

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 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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

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.649-3-21, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

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

API Well No: 43013512150000

- 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:



For John Rogers
Associate Director, Oil & Gas

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608																														
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah																														
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:																														
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR Uteland Butte																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512150000																														
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT																														
COUNTY: DUCHESNE		STATE: UTAH																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION	TYPE OF ACTION																															
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/26/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input checked="" type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 100px;" type="text" value="Confidential Status"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Confidential Status"/>
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Confidential Status"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. BBC hereby requests this well to be held in confidential status.																																
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 09, 2012																																
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst																														
SIGNATURE N/A	DATE 4/26/2012																															

RECEIVED
 UNITED STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT **FEB 03 2012**

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 20G0005608
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 Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 5H-1-46 BTR UB
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 43-013-51215
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface Lot 6 2666FNL 286FWL 40.161892 N Lat, 110.501006 W Lon At proposed prod. zone SWNW 1980FNL 700FWL 40.163819 N Lat, 110.518481 W Lon		10. Field and Pool, or Exploratory ALTAMONT
14. Distance in miles and direction from nearest town or post office* 11.3 MILES SOUTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T4S R5W Mer UBM SME: BIA
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 700' (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. 4523'
19. Proposed Depth 11506 MD 6743 TVD	20. BLM/BIA Bond No. on file WYB000040	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5939 GL
22. Approximate date work will start 06/01/2012	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:

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 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). | <ol style="list-style-type: none"> 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). 5. Operator certification 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 02/02/2012
Title SENIOR PERMIT ANALYST			
Approved by (Signature)		Name (Printed/Typed) Jerry Kenczka	Date JUN 11 2012
Title Assistant Field Manager Lands & Mineral Resources		Office VERNAL FIELD OFFICE	

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

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #129971 verified by the BLM Well Information System
 For BILL BARRETT CORPORATION, sent to the Vernal
 Committed to AFMSS for processing by LESLIE ROBINSON on 02/15/2012 (12LBR)

UDOGM RECEIVED
JUN 21 2012

NOTICE OF APPROVAL

** BLM REVISED **

DIV. OF OIL, GAS & MINING

171BR210A9

N10 N105-



**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: 5H-1-46 BTR UB
API No: 43-013-51215

Location: Lot 6, Sec. 4, T4S, R5W
Lease No: 2OG0005608
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: blm_ut_vn_opreport@blm.gov .
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)**

Additional Stipulations:

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY11-Q3-053 for additional mitigation measures that must be followed for the proposed road and pipeline. There are also site specific COAs of concern towards the back of that document that must be adhered to.

General Conditions of Approval:

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

cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

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

SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from intermediate casing depth to TOC.
- Cement for the surface casing will be circulated to the surface.

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

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.

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling
 Submitted By Venessa Langmach Phone Number 303-312-8172
 Well Name/Number 5H-1-46 BTR-UB *Wetland Butte*
 Qtr/Qtr SWNW Section 6 Township 4S Range 5W
 Lease Serial Number 1420H626296
 API Number 4301351215

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

Date/Time 09/15/2012 8:00 AM PM

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

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

Date/Time _____ AM PM

BOPE

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

RECEIVED
 SEP 12 2012
 DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks _____

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.	
5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah	
7. UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512150000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U	
COUNTY: DUCHESNE	
STATE: 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: 9/15/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well was spud by Triple A Drilling on 9/15/2012 at 12:00 pm.

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

FOR RECORD ONLY

September 25, 2012

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 9/25/2012	

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512150000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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: 9/30/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Well spud 9/15/2012; no other September 2012 monthly activity to report.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
October 03, 2012**

NAME (PLEASE PRINT) Megan Finnegan	PHONE NUMBER 303 299-9949	TITLE Permit Analyst
SIGNATURE N/A	DATE 10/2/2012	

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
4301350688	5-6D-45 BTR		SWNW	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	<u>new</u>	<u>18726</u>	9/13/2012		<u>9/27/2012</u>		
Comments: Spudding Operation was conducted by Triple A Drilling @ 9:00 am. <u>GR-WS BHL:SWNW</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351216	5H-1-46 BTR Wasatch		SWNW	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	<u>new</u>	<u>18727</u>	9/14/2012		<u>9/27/2012</u>		
Comments: Spudding Operation was conducted by Triple A Drilling @ 11:00 am. <u>WSTC BHL:SI R6W SWNW</u>							

CONFIDENTIAL

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351215	5H-1-46 BTR Uteland Butte		<u>NWSW</u>	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	<u>new</u>	<u>18728</u>	9/15/2012		<u>9/27/2012</u>		
Comments: Spudding Operation was conducted by Triple A Drilling @ 12:00 pm. <u>GRRV BHL:SI R6W SWNW</u>							

CONFIDENTIAL

ACTION CODES:

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

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

9/25/2012

Date

RECEIVED
SEP 26 2012

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: 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"/> 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"/> SUBSEQUENT REPORT Date of Work Completion:		<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
<input type="checkbox"/> SPUD REPORT Date of Spud:		OTHER: <input style="width: 100px;" type="text"/>
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/31/2012		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
No October 2012 monthly drilling activity to report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 07, 2012		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 11/7/2012

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512150000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		STATE: 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 12/3/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS 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. No November monthly activity to report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 03, 2012		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 12/3/2012	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Lawrence Lorenzen Phone Number 303-353-5350

Well Name/Number 5H-1-46 BTR UB
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
Lease Serial Number 20G0005608
API Number 43-013-51215-00-X1

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 12-6-12 5:00 AM PM

BOPE

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

RECEIVED

DEC 05 2012

DIV. OF OIL, GAS & MINING

Date/Time 12-6-12 11:00 AM PM

Remarks Times are estimated

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Lawrence Lorenzen Phone Number 303-353-5350

Well Name/Number 5H-1-46 BTR UB
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
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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

RECEIVED
DEC 14 2012
DIV. OF OIL, GAS & MINING

Date/Time 12-15-12 01:00 AM PM

BOPE

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

Date/Time 12-16-12 11:00 AM PM

Remarks Times are estimated

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
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.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah	
7. UNIT or CA AGREEMENT NAME:	
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512150000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U	
COUNTY: DUCHESNE	
STATE: 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: 1/2/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

December 2012 monthly drilling activity report is attached.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 January 03, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 1/2/2013	

**5H-1-46 UB BTR 12/3/2012 06:00 - 12/4/2012 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	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	1	RIGUP & TEARDOWN	Walk rig to well
06:30	11.50	18:00	1	RIGUP & TEARDOWN	Rig up conductor, mouse hole etc. Flowline egg shaped from previous incident. Will repair on csg break.

5H-1-46 UB BTR 12/4/2012 06:00 - 12/5/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	20	OPEN	Rack & strap BHA, Pickup Smith 7 blade 12 1/4" PDC and 8" SperryDrill 7/8 lobe 4.0 stage .17rpg motor and dir equip.
10:00	3.50	13:30	2	DRILL ACTUAL	Drig 103-320'. 217' in 5.5 hrs 40 fph. Survey @ 277' .76* inc 257.64 az. MW 8.7#/gal 30 vis.
13:30	0.50	14:00	7	LUBRICATE RIG	Rig service
14:00	11.50	01:30	2	DRILL ACTUAL	Drig 320-777'. 457' in 11.5 hrs 40 fph. Survey @ 614' .97* inc 250.15 az. MW 8.7#/gal 34 vis.
01:30	0.50	02:00	7	LUBRICATE RIG	Rig service.

5H-1-46 UB BTR 12/5/2012 06:00 - 12/6/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 777-1328'. 551' in 11.5 hrs 48 fph. Survey @ 1256' 1.35* inc 327.42 az MW 8.6 34 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service
18:00	12.00	06:00	2	DRILL ACTUAL	Drill/slide 1328-1980'. 652' in 12 hrs 54fph. Survey @ 1815 1.92* inc 300.64 az MW 8.6+#/gal 34 vis.

5H-1-46 UB BTR 12/6/2012 06:00 - 12/7/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill & slide 1980-2265. Having trouble getting desired build rate sliding up to 25' per jt. Survey @ 2225' 8.4* inc 328.19 az MW 8.7#/gal 34 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Service rig
18:00	6.00	00:00	2	DRILL ACTUAL	Drill & slide 2265-2526'. Final survey @ 2454 8.73* inc 326.55 azi. MW 8.75#/gal 34 vis.
00:00	1.00	01:00	5	COND MUD & CIRC	Pump sweep.
01:00	2.50	03:30	6	TRIPS	TOH for sfc csg
03:30	2.00	05:30	20	DIRECTIONAL WORK	Laydown 8" dir equip and bit & motor
05:30	0.50	06:00	12	RUN CASING & CEMENT	Rig up Kimsey csg service

5H-1-46 UB BTR 12/7/2012 06:00 - 12/8/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	12	RUN CASING & CEMENT	Run 56 jts 9 5/8" 36# J55 casing with 1 jt shoe track. Land @2521' kb.
10:30	2.00	12:30	5	COND MUD & CIRC	Circulate while rigging up HES
12:30	5.50	18:00	12	RUN CASING & CEMENT	Cmt as follows. P-test to 3K pump 20 bbl water, 40 bbl superflush, 20 bbl water, 400sks (225bbl) 11# lead cmt and 240 sks (56bbl) 14.8# tail cmt. Displace with 191 bbls mud. Bump plug to 900#. app 100 bbls cmt to sfc. Cmt holding on annulus. Run 120' 1" and do 50sk topout
18:00	4.50	22:30	13	WAIT ON CEMENT	Wait on cmt
22:30	4.50	03:00	14	NIPPLE UP B.O.P	Cut casing and weld on csg head.
03:00	3.00	06:00	14	NIPPLE UP B.O.P	N/U BOP

**5H-1-46 UB BTR 12/8/2012 06:00 - 12/9/2012 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	21	Wait on tester	Wait on tester
09:00	6.00	15:00	15	TEST B.O.P	Test BOP as follows;Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and csg to 1500# and power choke to 500# all tested good.
15:00	0.50	15:30	21		Install wear bushing
15:30	2.50	18:00	20	DIRECTIONAL WORK	P/U BHA for 8 3/4" hole sction. Orient dir tools.
18:00	2.50	20:30	6	TRIPS	TIH
20:30	1.50	22:00	2	DRILL ACTUAL	Drill out float equipment and 20' new hole.
22:00	0.50	22:30	21	FIT	Spot FIT mud. Do FIT to 10.5 EMW. (265psi) Bled to 200# in 10 min.
22:30	0.50	23:00	7	LUBRICATE RIG	Rig service
23:00	7.00	06:00	2	DRILL ACTUAL	Drill&slide 2544-3188'. 644' in 7 hrs 92 fph. Survey @ 2914 8.56* inc 321.47 azi. MW 8.7#/gal 35 vis

5H-1-46 UB BTR 12/9/2012 06:00 - 12/10/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill & slide 3138-3798 660' in 10 hrs 66 fph, Survey @ 3717 12.3* inc, 333.98* az. MW 8.8#/gal 35 vis
16:00	0.50	16:30	7	LUBRICATE RIG	Rlg service, function BOP
16:30	12.50	05:00	2	DRILL ACTUAL	Drill/slide 3798-4655'. 857' in 12.5 hrs, 68.5 fph. Survey @ 4523' 9.06*inc, 319.38* az. MW 8.8#/gal 50 vis.
05:00	0.50	05:30	7	LUBRICATE RIG	Rlg service
05:30	0.50	06:00	2	DRILL ACTUAL	Drlg 4655-4700'

5H-1-46 UB BTR 12/10/2012 06:00 - 12/11/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	Drill/slide 4700-5317'. 617' in 11 hrs 56 fphSurvey @ 5283'. 8.48* inc 292.23* az. MW 8.7#/gal 35 vis. 3.5 #/bbl dap
17:00	0.50	17:30	7	LUBRICATE RIG	Rig service, function test pipe rams
17:30	6.50	00:00	2	DRILL ACTUAL	Drill/slide 5317-5507'. 190' in 6.5 hrs 29 fph. Survey @ 5473' 8.47* inc 306.23 az
00:00	0.50	00:30	7	LUBRICATE RIG	Rig service
00:30	5.50	06:00	2	DRILL ACTUAL	Drill/slide 5507-5744'. 237' in 5.5 hrs 43 fph Survey @ 5568 6.79* inc 312.03 az MW 8.8#/gal 36 vis 3.5 #/bbl DAP

5H-1-46 UB BTR 12/11/2012 06:00 - 12/12/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drlg 5744-6172'. 428' in 11.5 hrs 37 fph. Survey@ 6043 1.56*inc 279.77 az MW9.1#/gal 35 vis 3.5 #/bbl DAP
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service Function BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 6172-6409'. 237' in 11.5 hrs 20 fph Survey @ 6281 2.38* inc 334.55 az MW9.1#/gal 36 vis 3.55#/bbl DAP
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service

5H-1-46 UB BTR 12/12/2012 06:00 - 12/13/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drill/slide 6409-6500' Survey @ 6495' 4.62* inc 347.8 az
08:00	2.00	10:00	5	COND MUD & CIRC	Pump sweep. Circulate clean Pump dryjob.
10:00	5.00	15:00	6	TRIPS	TOH, Trip was smooth pulling off bottom @ 225K

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	3.50	18:30	20	DIRECTIONAL WORK	Reconfigure BHA for curve. Function test blind rams
18:30	5.50	00:00	6	TRIPS	TIH filling pipe @ 3400'.
00:00	4.00	04:00	2	DRILL ACTUAL	Drill slide 6500-6566'. Survey @ 6495' 4.62* inc 347.8 az. MW 9.1#/gal 38 vis 3.5 #/bbl DAP
04:00	0.50	04:30	7	LUBRICATE RIG	Rig service
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/slide 6566-6629

5H-1-46 UB BTR 12/13/2012 06:00 - 12/14/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 6629-6882'. Survey 6811 30.9* inc 278.04 az MW9.2#/gal 39 vis 3.5#/bbl DAP
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 6882-7199'. Survey @ 7064 51.5* inc 271.19* az MW9.2#/gal 39 vis.3.5#/bbl DAP.

5H-1-46 UB BTR 12/14/2012 06:00 - 12/15/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 7199-7420'. 221' in 11.5 hrs 19.2 fph. Survey @7379 86.53* inc 272.35* az MW9.2#/gal 40 vis 3.5#/bbl DAP 10% LCM
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	5.50	23:30	8	REPAIR RIG	Rig broke down. Electrical issues with top drive
23:30	1.50	01:00	2	DRILL ACTUAL	Drill/slide 7430-7450'. Final survey 94.58* inc 272.15* az. Landed 1.7' above plan and 17.79' right of plan Vertical sec 1057.37'. MW9.2#/gal 40 vis 3.5#/bbl DAP 10% LCM
01:00	1.50	02:30	5	COND MUD & CIRC	Pump sweeps to clean hole. Watch shakers till Sweeps back and mud is clean.
02:30	3.00	05:30	6	TRIPS	TOH reaming curve pulling 75K over. Pump dryjop at top of curve..

5H-1-46 UB BTR 12/15/2012 06:00 - 12/16/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	TOH for reaming assembly
11:00	1.00	12:00	20	DIRECTIONAL WORK	Lay down dir equipment
12:00	1.00	13:00	6	TRIPS	Pickup reaming assembly. (bullnosed hole opener, bladed reamer 1jt drillpipe and bladed reamer.)
13:00	5.00	18:00	6	TRIPS	TIH filling pipe every 30 stds.
18:00	2.50	20:30	3	REAMING	Wash and ream thru curve pumping frequent Barazan sweeps.
20:30	2.00	22:30	5	COND MUD & CIRC	Circulate and work pipe pump sweep.
22:30	4.00	02:30	6	TRIPS	Wiper trip to 6500'.
02:30	1.50	04:00	5	COND MUD & CIRC	Circulate and work pipe. Pump sweep.
04:00	2.00	06:00	6	TRIPS	TOH LDDP.

5H-1-46 UB BTR 12/16/2012 06:00 - 12/17/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	6	TRIPS	LDDP and reaming assembly.
16:00	0.50	16:30	21	Pull wear bushing	Pull wear bushing
16:30	5.50	22:00	12	RUN CASING & CEMENT	HSM. Rig up csg crew. Pickup 7" 26# P110 csg. With 2 jt shoe track. Run 80 jts filling every 40 jts.
22:00	8.00	06:00	5	COND MUD & CIRC	No returns @ 80 jts in. Mix and pump LCM lost 450 bbls. regained returns and well flowing. Close in and Circulate 9.3# thru choke. Still flowing Shut in pressure 125#. Calculated 10# KMW. Mix and circulate 10#. Well still flowing SIP 60#.

**5H-1-46 UB BTR 12/17/2012 06:00 - 12/18/2012 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	5	COND MUD & CIRC	Build volume and weight to 10.2. Circulate well.
09:00	9.00	18:00	12	RUN CASING & CEMENT	Put rotating hd rubber on and run casing. Hit ledge @ 7153'.
18:00	4.00	22:00	12	RUN CASING & CEMENT	Work casing to get past ledge. Tried rotating pumping. and not pumping worked four hrs. No success.
22:00	8.00	06:00	12		Rig up HES and cmt as follows. 3 bbl water Pressure test to 5K. 7 bbl water 40 bbl superflush 20 bbl water, 190 bbl (460sks) 11# lead cmt 78 bbl (310sks) 13.5# tail cmt. Displace with 269 bbl water. Final pumping pressure 1000#. Bump plug to 1500# bleasid off and check floats. Had returns throughout job and spacers to surface when done.

5H-1-46 UB BTR 12/18/2012 06:00 - 12/19/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	12	RUN CASING & CEMENT	Rig down HES
06:30	5.00	11:30	14	NIPPLE UP B.O.P	N/D BOP. Set int casing in slips @ 220K. Install bit guide/wearbushing. N/U BOP.
11:30	2.00	13:30	15	TEST B.O.P	Start BOP test.
13:30	5.50	19:00	8	REPAIR RIG	Brake HBU went down. Call out electrician. Down 5.5 hrs. Build mud while waiting.
19:00	2.00	21:00	15	TEST B.O.P	Finish BOP test. Tested casing to 1500#. Also tested pipe rams, Blind rams, safety valves and inside BOP to 5000 high and 250 Low. Also tested annular to 2500.
21:00	2.00	23:00	20	DIRECTIONAL WORK	Pickup Hor. BHA and orient dir tools.
23:00	7.00	06:00	6	TRIPS	Picking up 4" XT39 drillpipe.

5H-1-46 UB BTR 12/19/2012 06:00 - 12/20/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	6	TRIPS	Picking up 4" drillpipe, pushpipe etc.
13:30	7.00	20:30	3	REAMING	Drill float collar, Pressure test csg to 2000#. Held good. Drill out shoe jts and float shoe. Ream into wellbore fell thru cmt @ 7240'.
20:30	4.00	00:30	2	DRILL ACTUAL	Drill to 7475'. Differential pressure spiking and motor stalling. Has been since drilling cmt.
00:30	5.50	06:00	6	TRIPS	TOH to replace motor. Strapping out.

5H-1-46 UB BTR 12/20/2012 06:00 - 12/21/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	Finish TOH. Left 26' of MM, Bit in hole. L/D BHA.
07:30	1.50	09:00	21	OPEN	Wait on fisherman.
09:00	1.00	10:00	6	TRIPS	Tih w/20 stds.
10:00	1.50	11:30	21	OPEN	Wait on fisherman.
11:30	1.00	12:30	6	TRIPS	Toh.
12:30	2.00	14:30	19	FISHING	P/U fishing assbly.
14:30	4.50	19:00	6	TRIPS	Tih. Engage fish @ 7450'.
19:00	3.50	22:30	19	FISHING	Tried to get fish off of wall w/cut-lip on grapple. Appeared to have gotten over fish a little, pump pressure came up f/1240 psi to as much as 1650 psi. Never got fish to move, only pulled over PU weight once.
22:30	6.50	05:00	6	TRIPS	Pump dry job, toh.
05:00	1.00	06:00	19	FISHING	Break fishing tools. Cut-lip on grapple bent to inside. No marks inside of grapple, no striations on tools indicating we were beside fish.

5H-1-46 UB BTR 12/21/2012 06:00 - 12/22/2012 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 7,469.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	21	OPEN	Wait on fishing tools.
10:00	1.00	11:00	19	FISHING	P/U grapple(6 1/8" guide, 5" grapple), overshot.
11:00	5.00	16:00	6	TRIPS	Tih.
16:00	8.00	00:00	19	FISHING	Circ and rotate, try to get to fish. Started torquing @ 7301, @ 7316' got hung up. Jarred tool loose. Determined 7316' must be bit on fish. Came up hole 26', tried to find TOF.
00:00	6.00	06:00	6	TRIPS	Toh. Pull into csg, pump pill, toh.

5H-1-46 UB BTR 12/22/2012 06:00 - 12/23/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	Finish toh. L/d fishing tools. Lost guide and grapple off of overshot.
11:00	2.00	13:00	21	OPEN	Wait on mud motors, bit breaker.
13:00	8.00	21:00	6	TRIPS	P/U 6 1/8" insert bit, 2.12" mm, tih. Cut and slipped drill line.
21:00	4.00	01:00	20	DIRECTIONAL WORK	Tih to 7260'. Get tool face, p/u to 7240', lose tool face. Scribe string f/7260' back up to 7240', hole got tight.
01:00	3.00	04:00	21	OPEN	Work tight hole. Could rotate but not pump until 7230'(5 strokes). Hole integrity shaky, kept falling in. Got bit back into csg.
04:00	2.00	06:00	5	COND MUD & CIRC	C&C mud.

5H-1-46 UB BTR 12/23/2012 06:00 - 12/24/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	5	COND MUD & CIRC	Raise mw to 9.7 ppb, lower wl to <8, add 2.5 ppb Soltex.
09:00	8.00	17:00	3	REAMING	Wash & ream f/shoe to 7240'. Sweep hole w/low vis then high vis sweeps. Returns - lots of shale & sand on sweeps. Had trouble getting to shoe and back to bottom @ several depths.
17:00	1.50	18:30	5	COND MUD & CIRC	Pump sweep, circulate hole, pump pill.
18:30	8.00	02:30	6	TRIPS	Blow top drive down, flow check. Toh. L/D mm, monel, pony collar.
02:30	3.50	06:00	6	TRIPS	P/U bit, bit sub, tih.

5H-1-46 UB BTR 12/24/2012 06:00 - 12/25/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	Finish tih.
08:00	5.00	13:00	3	REAMING	W&R 7144' - 7205'. Run low then high vis sweeps, brought back large amounts of sand, pulverized shale, 1/2" shale.
13:00	6.00	19:00	2	DRILL ACTUAL	Hole sidetracked. Will drill to depth we can get toolface and toh. Drill 7205' - 7246'.
19:00	1.50	20:30	5	COND MUD & CIRC	C&C for trip. Work pipe in and out of hole. Pump pill. Blow down top drive, flow check.
20:30	5.00	01:30	6	TRIPS	Toh. Wait on weather 1 hr; truck overturned on Skitzky rd, crews couldn't get to rig.
01:30	3.00	04:30	20	DIRECTIONAL WORK	P/U dir bha.
04:30	1.50	06:00	6	TRIPS	Tih.

5H-1-46 UB BTR 12/25/2012 06:00 - 12/26/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	Finish tih to shoe(7144').
09:30	0.50	10:00	7	LUBRICATE RIG	Rig Service.
10:00	8.00	18:00	3	REAMING	W&R 7144' - 7247'. Ran sweeps, copious amounts of shale returned.
18:00	4.00	22:00	2	DRILL ACTUAL	Slide/Drill sidetrack 7247' - 7280'.
22:00	3.00	01:00	21	OPEN	Working tight hole. Sweep hole, lots of shale, lost 100 bbls mud downhole. Hole tight back up to 8220'. Pull into shoe.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	5.00	06:00	6	TRIPS	Build and pump pill. Blow topdrive down. flow check. Toh f/mm.

5H-1-46 UB BTR 12/26/2012 06:00 - 12/27/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	Finish toh. L/D bha.
08:00	0.50	08:30	7	LUBRICATE RIG	Rig Service.
08:30	4.50	13:00	6	TRIPS	P/u bit, Tih to shoe.
13:00	4.00	17:00	5	COND MUD & CIRC	C&C mud, raisw mw to 12.5 ppg.
17:00	11.50	04:30	3	REAMING	W&R 7144' - 7280'. Ran sweeps, produced a lot of shale.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill 7280' - 7332'.

5H-1-46 UB BTR 12/27/2012 06:00 - 12/28/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	3	REAMING	W&R, work tight hole f/7250' - 7332'. Sweep hole, bringing back moderate amount of shale.
08:00	6.00	14:00	2	DRILL ACTUAL	Drill sidetrack 7332' - 7469'. Stopped drilling @ 7469', couldn't get it to drill off. Geologist reported metal slivers and shavings in samples.
14:00	1.00	15:00	6	TRIPS	Trip out to shoe, hole a little ratty.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	2.00	17:30	6	TRIPS	Tih to 7469'. Hole tight @ 7183', 7205', 7255'. Rereamed stand.
17:30	1.50	19:00	5	COND MUD & CIRC	Sweep hole, C&C mud.
19:00	6.50	01:30	6	TRIPS	Backream to shoe, pump pill, flow check. Toh. 20' bottom jt dp, bit, bit sub left in hole.
01:30	2.50	04:00	20	DIRECTIONAL WORK	P/u dir bha, orient same.
04:00	2.00	06:00	6	TRIPS	Tih.

5H-1-46 UB BTR 12/28/2012 06:00 - 12/29/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Finish tih to shoe w/sidetrack assbly.
09:00	2.50	11:30	5	COND MUD & CIRC	C&C mud, get 12.5 ppg all the way around.
11:30	3.00	14:30	3	REAMING	W&R 7144' - 7285'. Easy reaming, slowly to 7285'. Check shot @ 7217' - 67.08*, 267.93 az. Strong signal from em tool.
14:30	1.00	15:30	5	COND MUD & CIRC	Send sweep, brought back fair amount of sand, shale.
15:30	3.00	18:30	20	DIRECTIONAL WORK	Establish tool face, Scribe string to top of trough point.
18:30	3.50	22:00	20	DIRECTIONAL WORK	Trough low side 7153' - 7191'.
22:00	8.00	06:00	20	DIRECTIONAL WORK	Time drill 7191' - 7197' @ 6 min/inch.

5H-1-46 UB BTR 12/29/2012 06:00 - 12/30/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	DRILLING	7,469.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	20	DIRECTIONAL WORK	Time drill 7197' - 7203' @ 5 min/inch. Time drill 7203' - 7206' @ 3 min/inch.
15:00	1.50	16:30	2	DRILL ACTUAL	Slide 7206' - 7221'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	1.00	18:00	2	DRILL ACTUAL	Rotate 7221' - 7266'. Rop 85 fph w/no wob - not sidetracked. Samples still black shale. Check shot @ 7201' - 67.81*.
18:00	5.50	23:30	20	DIRECTIONAL WORK	Try to establish tool face to retry troughing. Can't talk to tool.
23:30	1.00	00:30	5	COND MUD & CIRC	Sweep hole, C&C mud f/toh.
00:30	5.50	06:00	6	TRIPS	Backream to shoe. Pump dry job, flow check. Toh.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Lawrence Lorenzen Phone Number 303-353-5350

Well Name/Number 5H-1-46 BTR UB
Qtr/Qtr SW/NW Section 6 Township 4S Range 5W
Lease Serial Number 20G0005608
API Number 43-013-51215-00-X1

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 01/18/2013 8:00 AM PM

BOPE

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

RECEIVED
JAN 23 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks Times are estimated

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512150000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: 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: 1/31/2013	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached is the January 2013 monthly drilling report for this well.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 13, 2013		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 2/5/2013	

**5H-1-46 UB BTR 1/1/2013 06:00 - 1/2/2013 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Slide 7260' - 7300'. Angle dropping, hole sidetracked @ ~ 130R.
11:30	1.50	13:00	5	COND MUD & CIRC	C&C while wait on orders.
13:00	17.00	06:00	2	DRILL ACTUAL	Slide/rotate 7300' - 7455'.

5H-1-46 UB BTR 1/2/2013 06:00 - 1/3/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	Slide/rotate 7455' - 7478'.
09:00	2.00	11:00	5	COND MUD & CIRC	C&C, sweep hole f/trip.
11:00	8.00	19:00	6	TRIPS	Toh to start of ST, run in and out of sidetrack. Toh.
19:00	5.00	00:00	20	DIRECTIONAL WORK	BHA. X/O bit, Mwd, change batteries, antenna sub.
00:00	5.50	05:30	6	TRIPS	Tih to shoe.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 UB BTR 1/3/2013 06:00 - 1/4/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	6	TRIPS	Tih to top of ST, get tool face, attempt to find ST.
14:00	16.00	06:00	20	DIRECTIONAL WORK	Surveys very similar to 7300'. Then azimuth changes from previous sidetrack of 280° to 275°. Has been drilling like new hole. Current survey @ 7376 67.03 inc 274.49 az. MW 12.5#/gal 58 vis PH 9.5 Bit depth @ report time 7444'.

5H-1-46 UB BTR 1/4/2013 06:00 - 1/5/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	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	20	DIRECTIONAL WORK	Continue sidetracking.
08:30	11.50	20:00	2	DRILL ACTUAL	Drlg curve 7478-7580'. Survey @ 7597 90.74* inc 271.5* az increased MW to 12.7#/gal 54 vis 4 wl
20:00	0.50	20:30	7	LUBRICATE RIG	Rig service, Function test BOP
20:30	7.50	04:00	2	DRILL ACTUAL	Finish curve 7597-7670'. Final survey 98.91* inc 272.00 az MW 12.7#/gal 54vis 4 WL.
04:00	1.50	05:30	5	COND MUD & CIRC	Circulate clean, Pump 3 sweeps while working pipe. Shakers clean after sweeps.
05:30	0.50	06:00	6	TRIPS	Start TOH

5H-1-46 UB BTR 1/5/2013 06:00 - 1/6/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	TOH, pulled thru curve smoothly. No pumps or backreaming. L/D curve assembly.
14:00	4.00	18:00	15	TEST B.O.P	30 day BOP test due. Test BOP as follows; Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and power choke to 500# all tested good.
18:00	3.00	21:00	20	DIRECTIONAL WORK	Pickup dir tools. Orient
21:00	7.00	04:00	6	TRIPS	TIH, filling every 30 stds.
04:00	2.00	06:00	20	DIRECTIONAL WORK	Looking for sidetrack. Got in sidetrack. Start taking and matching surveys from when drlg.

5H-1-46 UB BTR 1/6/2013 06:00 - 1/7/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	3	REAMING	Wash and ream to bottom. Pump sweeps to clean hole.
15:00	1.00	16:00	2	DRILL ACTUAL	Drig 7670-7702'.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service, Function test BOP.
16:30	13.00	05:30	2	DRILL ACTUAL	Drilg 7702-8112'. Survey @ 8014' 100.89* inc 274.26 az. MW 12.8#/gal 59 vis 4 WL
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service, function test BOP

5H-1-46 UB BTR 1/7/2013 06:00 - 1/8/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	2	DRILL ACTUAL	Drill/slide 8112-8259'. Survey @ 8251' 100.51* inc 274.3* az 4.7' above line and 9.4' north. MW 12.8#/gal 58 vis 4 WL.
11:00	0.50	11:30	7	LUBRICATE RIG	Rig service. Function test BOP
11:30	6.50	18:00	2	DRILL ACTUAL	Drill/slide 8259-8397'. Survey @ 8394' 100.37* inc 275.29* az MW 12.8#/gal 58 vis 4 WL.
18:00	5.00	23:00	5	COND MUD & CIRC	Lost returns @ 8397'. Drop pump rate. Mix and pump LCM. Lost app 400 bbls. Recover returns. Still seeping 20 bbls/hr
23:00	7.00	06:00	2	DRILL ACTUAL	Drill/slide 8397-8460'. Drilling with 20 bbl/hr seepage. Running 15-20% LCM. Survey @ 8394' 100.37* inc 275.29* az MW 12.7#/gal 60 vis 4.5 WL.

5H-1-46 UB BTR 1/8/2013 06:00 - 1/9/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/slide 8460-8649'. Survey @ 8630' 93.29* inc 270.2 az MW 12.6#/gal 55 vis 5 WL
15:00	0.50	15:30	7	LUBRICATE RIG	Rig service, BOP drill 45 sec
15:30	14.50	06:00	2	DRILL ACTUAL	Drill/slide 8649-8933' Survey @ 8804' 92.25* inc 270.45 az MW 12.6#/gal 57 vis 4 WL BOP drill 50 sec

5H-1-46 UB BTR 1/9/2013 06:00 - 1/10/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	20	DIRECTIONAL WORK	Dir work, communication issues with MWD
08:00	3.00	11:00	2	DRILL ACTUAL	Drill/slide 8933-9028'. Survey @ 9009' 91.75* inc 271 az 12.6#/gal 55 vis 4 WL.
11:00	1.50	12:30	20	DIRECTIONAL WORK	Dir work, communication issues with MWD
12:30	17.00	05:30	2	DRILL ACTUAL	Drill/slide 9028-9407'. Survey @ 9293' 93.6* inc 269.56 az MW 12.6#/gal 56 vis 4 WL
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. FUnction test BOP.

5H-1-46 UB BTR 1/10/2013 06:00 - 1/11/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	23.50	05:30	2	DRILL ACTUAL	Drill/slide 9407-9975'. 568' for day Survey @ 9861'. 91.21 inc 271.38 az. MW 12.6 #/gal 55 vis 4.8 WL.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service, function test BOP

5H-1-46 UB BTR 1/11/2013 06:00 - 1/12/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	7	LUBRICATE RIG	Rig service, Function test BOP
06:30	23.50	06:00	2	DRILL ACTUAL	Drill/slide 9975-10386'. 411' for day. Survey @ 10288' 90.1* inc 269.71* az. MW 12.6#/gal 57 vis 4.6 WL. Gamma 10

**5H-1-46 UB BTR 1/12/2013 06:00 - 1/13/2013 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Drlg 10386-10449'. Survey 10383', 91.81* inc 272.03* az, MW 12.6#/gal 55 vis 5 WL. MWD bat dead.
10:00	2.50	12:30	5	COND MUD & CIRC	Pump sweeps and Work pipe till shakers clean.
12:30	5.00	17:30	6	TRIPS	TOH. Would not pull without working tight spots @ 10198-9398', 8186-8085', 7698-7477'.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	4.00	22:00	6	TRIPS	Pump slug, finish TOH
22:00	3.50	01:30	20	DIRECTIONAL WORK	Lay down MWD, Bit & motor. Pickup fresh Bit, MWD and motor. Orient same.
01:30	4.50	06:00	6	TRIPS	Lay down MWD, Bit & motor. Pickup fresh Bit, MWD and motor. Orient same. TIH. Fill and circulate @ 3900', 5900'.

5H-1-46 UB BTR 1/13/2013 06:00 - 1/14/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	TIH, P/U 9 4 3/4" collars, put on top of HWDP. Went into sidetrack easily.
11:00	15.50	02:30	3	REAMING	Wash & ream to bottom. Work tight spots @ 7800-51, 8219-50, Ream to bottom. rerun gamma on last stand.
02:30	3.50	06:00	2	DRILL ACTUAL	Resume drlg 10499-10504'. Losing mud app 50 bbl treating with sawdust cedar fiber etc. MW 12.6#/gal 53 vis 5 WL Survey @ 10422 91.44* inc 271.63* az.

5H-1-46 UB BTR 1/14/2013 06:00 - 1/15/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	drill/slide 10504-10669'. Survey @ 10659' 92.15* inc 269.94* az MW 12.6 #/gal 55 vis 4.6 WL 3% lube.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service, function test BOP.
15:00	1.00	16:00	8	REPAIR RIG	Replace liner on pump # 2. Pump #1 discharge frozen. Thaw and put on line.
16:00	11.00	03:00	2	DRILL ACTUAL	Drill/slide 10669-10915'. Survey @ 10849' 94.04* inc 268.19* az MW 12.6#/gal 57 vis 4.8 WL 3.5% lube.
03:00	0.50	03:30	7	LUBRICATE RIG	Rig Service
03:30	2.50	06:00	2	DRILL ACTUAL	Drill slide 10915-10978'. survey @ 10896', 93.49*inc 268.03 az MW 12.6#/gal 57 vis, 4.6 wl 3.5% lube.

5H-1-46 UB BTR 1/15/2013 06:00 - 1/16/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/slide 10978-11199'. Survey @ 11133' 92.66* inc 267.18 av MW 12.6#/gal 55 vis 4.6 WL 3.4% lube. Rotating out.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service, Function test BOP
16:00	6.00	22:00	2	DRILL ACTUAL	Drlg 11199-11380'. Projection to bit 92.15* az 266.81* inc. TVD 6833' MW 12.7 #/gal 63 vis 4.6 WL 3.5% lube
22:00	2.00	00:00	5	COND MUD & CIRC	Pump sweeps and work pipe @ 95 rpm till shakers clean.
00:00	0.50	00:30	7	LUBRICATE RIG	Rig service, (ST-80)
00:30	5.50	06:00	6	TRIPS	Back ream out of lateral section. DO flow check at shoe. Pump dryjob.

5H-1-46 UB BTR 1/16/2013 06:00 - 1/17/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	6	TRIPS	TOH, Laydown dir equipment.
13:30	7.50	21:00	6	TRIPS	P/U bull nosed hole opener, 2 jts drillpipe, string reamer, 1 jt HWDP and String reamer. TIH to 6200'. Fill pipe and break circulation
21:00	1.00	22:00	9	CUT OFF DRILL LINE	Slip & cut drlg line.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
22:00	1.00	23:00	6	TRIPS	TIH to 7144'.
23:00	7.00	06:00	3	REAMING	Break circulation. Set rotary @ 10 rpm and pump @ 60 gpm. Work reaming assembly into sidetrack. Ream to 8844'. MW 12.6#/gal 54 vis 4.4 WL 3% lube.

5H-1-46 UB BTR 1/17/2013 06:00 - 1/18/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.50	21:30	3	REAMING	Ream hole 8844' - 11380'. Re-reamed tight spots and severe doglegs.
21:30	1.50	23:00	5	COND MUD & CIRC	Sweep hole, circ clean.
23:00	3.50	02:30	21	OPEN	HSM. R/U HES, ran fluid caliper log. Pumped 475 bbl to get flag back, 98 bbls over gauged hole. R/D HES.
02:30	3.50	06:00	3	REAMING	Backream f/11380' - 9000'. Hole in good shape, constant, even drag @ 25-30k.

5H-1-46 UB BTR 1/18/2013 06:00 - 1/19/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	3	REAMING	Finish backreaming to shoe - pulled last 2 stands pump only. Hole looks good to run casing.
09:00	2.00	11:00	5	COND MUD & CIRC	Drop drift, pump slug. Blow top drive down.
11:00	5.00	16:00	6	TRIPS	LDDP. Keep HWDP and Drill Collars in derrick.
16:00	5.00	21:00	21	OPEN	Circulate @ 2665' while waiting on HES RSI tool to come from Casper, Wyo. HES tool hand on loc @ 19:00.
21:00	3.00	00:00	6	TRIPS	Finish LDDP. L/D reamers, hole opener.
00:00	6.00	06:00	12	RUN CASING & CEMENT	HSM. R/U casers. RSI tool arrived @ 01:00. Run 4 1/2", 11.6#, P-110, LT&C csg as follows: Float shoe, 2 jts csg, float collar, landing collar, 1 jt csg, RSI tool, casing(72 of 118 jts by report time).

5H-1-46 UB BTR 1/19/2013 06:00 - 1/20/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	12	RUN CASING & CEMENT	Finish picking up liner. P/U tieback sleeve, running tool. R/D casers.
09:00	4.00	13:00	12	RUN CASING & CEMENT	Run (40) 4" HWDP, (9) 4 3/4" Drill Collars, 4" DP to shoe. SLM, drift pipe.
13:00	2.00	15:00	5	COND MUD & CIRC	Install rot element. Circ bottoms up.
15:00	6.00	21:00	12	RUN CASING & CEMENT	Run 2 stands dp, try to get into sidetrack. Tried rotate/no rotate, pump/no pump. Seemed like it fell in @ 7225', @ 7241' stopped dead(several times). After that, couldn't get past 7221'.
21:00	1.00	22:00	5	COND MUD & CIRC	Pull into shoe, circ, mix and pump dry job.
22:00	2.00	00:00	6	TRIPS	Toh w/dp, hwdp, dc's.
00:00	6.00	06:00	12	RUN CASING & CEMENT	HSM. R/U casers. L/D liner.

5H-1-46 UB BTR 1/20/2013 06:00 - 1/21/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	Finish l/d liner. R/D casers. Liner inspected, high rate of pin and coupling damage - will swap out.
10:00	12.00	22:00	6	TRIPS	P/U bullnose hole opener, reamer, tih.
22:00	1.00	23:00	5	COND MUD & CIRC	Fill pipe, circ BU.
23:00	7.00	06:00	3	REAMING	W&R @ 10 rpm, 60 strokes. Seemed like it fell into sidetrack, W&R to 7480', stopped solid. Suspect we are in old hole, going to pull back up to 7225' and try to get into sidetrack.

5H-1-46 UB BTR 1/21/2013 06:00 - 1/22/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	3	REAMING	W&R w/60 strokes, 10 rpm f/7225' - 7480'. Still in old hole.
13:00	1.00	14:00	5	COND MUD & CIRC	Pump sweep.
14:00	6.00	20:00	6	TRIPS	Backream to shoe, Pump dry job, toh.
20:00	0.50	20:30	7	LUBRICATE RIG	Rig Service. Check com.
20:30	7.00	03:30	6	TRIPS	P/U insert bit, 1.5" mm, dir tools. Tih.
03:30	2.50	06:00	3	REAMING	Clean up trough, try to get back into sidetrack.

5H-1-46 UB BTR 1/22/2013 06:00 - 1/23/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	20	DIRECTIONAL WORK	Worked dir assbly into sidetrack @ 7425'. Washed to 7480', stopped. Determined to be in wrong sidetrack. pulled back up to 7200', work assbly into sidetrack, stopped @ 7480' again.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig Service.
17:30	12.50	06:00	20	DIRECTIONAL WORK	Pull back to shoe, try to get back in correct sidetrack. Had indications @ 7430' it was started in, flipped out. Working that area now.

5H-1-46 UB BTR 1/23/2013 06:00 - 1/24/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	20	DIRECTIONAL WORK	Work to get into sidetrack. Fell into correct sidetrack @ 7220' - 7230'.
11:00	7.00	18:00	3	REAMING	W&R to 11380'.
18:00	3.00	21:00	5	COND MUD & CIRC	C&C mud. Pump sweeps. Shakers clean.
21:00	9.00	06:00	6	TRIPS	Toh. Pull out of sidetrack slowly. Get into csg, pump pill, toh. Bit, Bit box, rotor missing f/mm.

5H-1-46 UB BTR 1/24/2013 06:00 - 1/25/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	17.00	23:00	12	RUN CASING & CEMENT	Hsm. R/U casers. Run 4 1/2", 11.6#, P-110, LT&C liner as follows: FS, 2 jts csg, FC, LC, 1 jt csg, RSI, 109 jts csg, X/O, Tie-back receptacle, Running tool. R/D casers, Tih w/40 jts HWDP, 9 DCs, 4" DP to 11033'.

5H-1-46 UB BTR 1/25/2013 06:00 - 1/26/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	12	RUN CASING & CEMENT	Run liner to 11044'. Progress very slow, cement here.
06:30	2.00	08:30	5	COND MUD & CIRC	C&C mud. HSM w/HES, Nabors for cement job. Blow down top drive.
08:30	9.00	17:30	12	RUN CASING & CEMENT	Cement well as follows: Press test lines to 9000 psi. Pump 40 bbl Tuned Spacer III @ 12.7 ppg, 7.02 yld, 42.77 gps h2o @ 4 bpm, last 5 bbls pump ed w/foamer. Mix and pump 410 sx Elastiseal VI lead cmt @ 14.2 ppg, 1.99 yld, foam quality 2.17, foam yield 9.09%, foam density 13 ppg, 9.33 gps h2o. 27372 scf notrogen pumped. Pump cavitating, switched pumps & slowed rate to 2 bpm. Mix and pump 50 sx Elasticem VI tail cmt @ 14.3 ppg, 1.99 yld, 9.33 gps h2o. Drop wiper dart, wash up to pit. Pump 134 bbls h2o w/clayweb and aldacide displacement. Land plug w/ 2400 psi, bump to 3100 psi. Bled back 2 bbls, floats held. Drop ball, rupture disk @ 5800 psi, set liner w/7208 psi @ 6028'. Unstung f/liner hanger, circ off top of liner - 100 bbls cmt, 195 bbls mud to surface. Test liner top to 1500 psi f/10 min. Displace mud w/kcl water. R/D HES.
17:30	2.50	20:00	21	OPEN	Flush stack, blow down mud lines, top drive.
20:00	0.50	20:30	7	LUBRICATE RIG	Rig service.
20:30	7.50	04:00	6	TRIPS	LDDP: L/D running tool, bha.
04:00	2.00	06:00	6	TRIPS	Tih 55 stds.

5H-1-46 UB BTR 1/26/2013 06:00 - 1/27/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	9	CUT OFF DRILL LINE	Cut and slip drill line.
07:00	4.00	11:00	6	TRIPS	Lddp.
11:00	2.00	13:00	14	NIPPLE UP B.O.P	Ndbope.
13:00	2.00	15:00	21	OPEN	Remove weldolet, install night cap.
15:00	5.00	20:00	21	OPEN	Clean pits. Rig released @ 20:00.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
1. TYPE OF WELL Oil Well		7.UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512150000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/7/2013	<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 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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Confidential Status"/>

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

BBC requests to hold this well in confidential status.

Accepted by the Utah Division of Oil, Gas and Mining

Date: February 25, 2013

By: *D. K. Quist*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 2/7/2013	

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512150000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<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 type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. February 2013 monthly drilling report attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 06, 2013		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/5/2013	

**5H-1-46 UB BTR 2/1/2013 06:00 - 2/2/2013 06:00**

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	IWHD	Install Wellhead	HSM. CHECK PRESSURE. ND NIGH TCAP. NU 7" 10K TBG HEAD. PRES TEST VOID. GOO. NU NIGHT CAP.

5H-1-46 UB BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU SLB. RIH W/ 3.63" GR/JB. THRU LINER TOP AT 6026' TO START TAKING WT AT 6526' (6558' 9.34* INCL, 9.34* DLS). POOH. RIH W/ CBL/CCL/GR/TEMP. DID NOT RUN WITH PRESSURE. LOG SHOWED CMT QUALITY OF --- FAIR 6526'-6026' IN LINER. GOOD 6026'-5400', FAIR 5400'-5200', GOOD 5200'-3950', BAD 3950'-3880', FAIR 3880'-3800', BAD 3800'-1660', TOC 1660'. MAX TEMP 165*. RD AND MOVE OFF.

5H-1-46 UB BTR 2/3/2013 06:00 - 2/4/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/4/2013 06:00 - 2/5/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/5/2013 06:00 - 2/6/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/6/2013 06:00 - 2/7/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/7/2013 06:00 - 2/8/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/8/2013 06:00 - 2/9/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/9/2013 06:00 - 2/10/2013 06:00

API/UWI 43013512150000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/10/2013 06:00 - 2/11/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/11/2013 06:00 - 2/12/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/12/2013 06:00 - 2/13/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	GOP	General Operations	WAITING ON RIG
09:30	6.50	16:00	SRIG	Rig Up/Down	FIX DIRT AROUND WELLHEAD. SPOT AND RUSU. ND NIGHT CAP. NU 7" 55K X 7" 10K SPOOL, 7" 5K BOP. RU FLOOR. SPOT CATWALK AND RACKS. WAIT ON CSG. UNLOAD 167-JTS 4-1/2" 11.6# P-110 CSG. MEAS CSG. SECURE WELL. SDFN
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE FOR NIGHT.

5H-1-46 UB BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	3.50	10:30	DTIM	Downtime	WAITING ON WEATHERFORD.
10:30	0.50	11:00	GOP	General Operations	RU WEATHERFORD CSG. HSM
11:00	2.00	13:00	RUTB	Run Tubing	MU HES SEAL ASSY. CROSS THREAD 2-JTS. HAVE BAD CSG. LEARNED THAT TRUCKS LOST LOAD ON PAVEMENT. LD CSG AND SEAL ASSY. RD WEATHERFORD CSG CREW.
13:00	3.00	16:00	PULT	Pull Tubing	DECIDED TO LD CSG. SEND TO TOWN. WAIT ON TRUCKS. LOAD OUT CSG. SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 UB BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. WAITING ON 4-1/2" CSG TO COME IN.

5H-1-46 UB BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	GOP	General Operations	LOAD 172 JTS 4-1/2 CSG ON PIPE RACKS & TALLY. R/U WEATHERFORD CSG CREW.
09:00	3.00	12:00	RUTB	Run Tubing	P/U HALLIBURTON PBR SEAL ASSEMBLY. RIH TO TOP OF TIEBACK RECEPTACLE @ 6027' P/U 4-1/2", 11.6#, P-110 CSG. TORQUE TO 3020#.
12:00	1.00	13:00	GOP	General Operations	CIRC WELL CLEAN W/ 2% KCL.
13:00	1.50	14:30			STING IN & SPACE OUT. LAND CSG IN 20K COMPRESSION. LOCK IN HANGER. PRESSURE TEST ANNULUS TO 2000 PSI FOR 15 MIN. HELD GOOD. R/D WEATHERFORD. CSG DETAIL KB 22.00 HANGER .75 20K COMPRESSION -3.00 4-1/2" PUP JT 3.00 4-1/2" PUP JT 2.00 170-JTS 4-1/2" CSG 6001.50 PBR 13.25
14:30	2.00	16:30	IWHD	Install Wellhead	R/D FLOOR & EQUIPMENT. N/D BOP. N/U FRAC TREE.
16:30	1.50	18:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. ROAD RIG TO 12-12D-46. SDFN.
18:00	12.00	06:00	CTRL	Crew Travel	CREW TRAVEL. WELL SECURE.

5H-1-46 UB BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	LOCL	Lock Wellhead & Secure	WAITING TO FINISH 5H-1-46 TW. MOVE HES OVER.
13:00	4.00	17:00	ACID	Acid Wash/Squeeze	HSM. HOOK HES TO CSG. PUT 2000 PSI ON ANNULUS. HOOK UP TO FRAC VAVLES. PRES TEST LINE TO 9300 PSI. OPEN WELL. START PUMPING AT 2 BPM TO OPEN RSI AT 7914 PSI. PMP 6 BBL THEN START ACID. PUMP 2500 GAL 15% HCL. STEP RATE UP, 3.9 BPM AT 5432, 4.0 BPM AT 5000 PSI. 6.5 BPM AT 5724 PSI. DISPLACE ACID WITH 1.6 BBL 2% WHEN RIS PLUGGED AND PRES UP TO 8400 PSI. SHUT DOWN. PRES START COMING DOWN. CAME DOWN TO 6200 PSI. BUMP PUMPS. PRES TO 8000 PSI, SLOW TO FALL. STAGE IN 14 BBLS 2% KCL AS PRES WOULD ALLOW. BLEED OFF TO 0 PSI, NO FLOW. ATTEMPT TO PUMP AGAIN. PRESSURE TO 8400 PSI. SAME RESULTS. BLEED OFF. SHUT WELL IN. RDMO HES.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. WAITING FOR COIL IN AM.

5H-1-46 UB BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	SRIG	Rig Up/Down	MIRU CTI COIL TBG UNIT. FILL COIL. MU STI 3-7/8" MILL, MOTOR, AGITATOR, CIRC SUB, DISCONNECT, BI-DI JAR, CHECK, CONNECTOR. TEST TOOLS.
10:30	9.00	19:30	RUTB	Run Tubing	HSM. PRES TEST STACK TO 4000 PSI. OPEN WELL W/ 900 PSI. START IN HOLE. CIRC 2 BPM AT 30 FPM TO CIRC OUT ACID. CONT RIH. WENT DOWN AND TAG COIL DEPTH 10,905'. WORK COIL. COULD NOT GET BACK DOWN. INCREASE FR AND EZ SLIDE. PULL 500' UPHOLE. RUN DOWN AND TAG AT 10,935' ACTS LIKE RSI SLEEVE. TAG AGAIN. MIX SWEEP AND POOH. PULL UP INTO LUBE. PMP INTO RSI WITH CTS PUMP. UP TO 5 BPM WITH PRES 5800 TO 5000 PSI. PMP 72 BBLS. GOOD. SHUT WELL IN. MOVE OFF AND OVER.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AS C/O 5H-1-46 TW BTR.

5H-1-46 UB BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	SRIG	Rig Up/Down	MIRU HES. HSM.
08:30	1.50	10:00	ACID	Acid Wash/Squeeze	HOOK TO CSG. PRES TEST LINES. PUT 2000 PSI ON ANNULUS AND SHUT IN. HOOK UP TO 4-1/2". PRES TEST LINE TO 9600 PSI. OPEN WELL WITH 833 PSI. PUMP 14 BBL-- 2 BPM AT 3682 PSI, 4 BPM AT 4198 PSI. START ACID. PUMP 2500 GAL 15% HCL-- 4.1 BPM AT 3580 PSI. DISPLACE ACID WITH 169 BBLS 2%-- 4.8 BPM AT 3768 PSI, 6.2 BPM AT 4270 PSI, 7.8 BPM AT 5890 PSI, 9.5 BPM AT 5774 PSI. ACID ON RSI-- 9.5 BPM AT 5352, 9.6 BPM AT 2219 PSI. FINAL 11.2 BPM AT 3625 PSI. SHUT DOWN.
10:00	1.00	11:00	SRIG	Rig Up/Down	RDMO COIL TBG SERVICES.
11:00	1.50	12:30	SRIG	Rig Up/Down	MIRU SLB.
12:30	2.00	14:30	WLWK	Wireline	PU WEIGHT BARS AND 4-1/2" DUMMY PLUG. EQUALIZE 1000 PSI AND OPEN WELL. RIH AND CORRELATE TO LINER TOP WITH SLB CBL/CCR/GR LOG DATED 2/2/13. START PUMPING WITH HES AND 2 BPM AT 1300 PSI. INCREASE TO 10 BPM AT 4250 PSI TO GET DUMMY PLUG TO 10,850'. POOH. LD TOOLS.
14:30	3.00	17:30	PFRT	Perforating	PU 3-1/8" PERF GUNS FOR STG 1 (23 GR, .46 EOD, 36" PENT, 4 SPF) AND RIH. CORRELATE TO JTS BELOW LINER 6096+ AND 6141'. START PUMPING DOWN HOLE WITH HES. BEGIN 2 BPM AT 1400 PSI, END AT 10.2 BPM AT 4500 PSI. RUN TO 10,571'. PULL UP AND PERF UTELAND BUTTE FORM 10,584'-10,846'. POOH. SHUT WELL IN. VERIFY ALL GUNS SHOT.
17:30	13.00	06:30	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 UB BTR 2/24/2013 06:00 - 2/25/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. MOVE IN AND START FILLING FRAC LINE.

5H-1-46 UB BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FILLING FRAC LINE. BACKSIDE MANIFOLD IN. RIVER LOAD OUT SET.

5H-1-46 UB BTR 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512150000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,380.0	Drilling & Completion

Time Log

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

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512150000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: 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: 3/10/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well had first gas sales on 3/7/13 and first oil sales on 3/10/13.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
March 12, 2013**

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 3/12/2013	

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512150000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/1/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<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 March 2013 Drilling Activity for this well.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 05, 2013		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 4/5/2013	

**5H-1-46 UB BTR 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID FOR STG 7-12

5H-1-46 UB BTR 3/2/2013 06:00 - 3/3/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID FOR STG 7-12

5H-1-46 UB BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID. MOVE FRAC LINE FORWARD. START FILLING FRAC LINE FOR ACID.

5H-1-46 UB BTR 3/4/2013 06:00 - 3/5/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Filling Frac Tanks. Heat Frac Tanks. Basic Loading Acid Per Third Party.

5H-1-46 UB BTR 3/5/2013 06:00 - 3/6/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MIRU Basic Frac Fleet. Rig Up WireLine Load Remaining Acid And Mix

5H-1-46 UB BTR 3/6/2013 06:00 - 3/7/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	GOP	General Operations	HOOK UP LINE TO CSG. HSM. PRES TEST LINES TO PUT 1450 PSI ON ANNULUS.
06:30	0.50	07:00	FRAC	Frac. Job	ACIDIZE STG 6-- 8974'-9236' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 9200 PSI. OPEN WELL AT 07:03 WITH 1040 PSI. PUMPING INTO- 4090 PSI AT 16.0 BPM. PUMP 15,000 GAL 15% GELLED FE ACID. 49.7 BPM AT 6510 PSI. ON PERF- 49.8 BPM AT 6360 PSI. END ACID 50.0 BPM AT 6060 PDI FLUSH WITH 158.5 BBL. 50.0 BPM AT 6040 PSI. ISIP 2616 FG .72 MAX RATE 50.0 BPM MAX PRES 6535 PSI AVE RATE 35.1 BPM AVE PRES 5170 PSI PMP 357 BBLs GELLED FE ACID 198.7 BBLs SLK WTR BTR 555.7 BBLs
07:00	2.75	09:45	PFRT	Perforating	PERF STG #7- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 7 INTO LUBE AND EQUALIZE 2700 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2600#, PMP 99 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8944' WITH 1700 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8652'-8914' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:45	0.50	10:15	FRAC	Frac. Job	<p>ACIDIZE STG 7-- 8652'-8914' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 9000 PSI. OPEN WELL AT 09:40 WITH 1480 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.4 BPM AT 4070 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 50.1 BPM AT 6290 PSI. ON PERF- 50.1 BPM AT 5510 PSI. END ACID 50.1 BPM AT 5390 PSI FLUSH WITH 154.5 BBL. 50.2 BPM AT 5280 PSI.</p> <p>ISIP 2350 PSI FG .70 MAX RATE 50.1 BPM MAX PRES 6457 PSI AVE RATE 31.0 BPM AVE PRES 4362 PSI PMP 357 BBLs GELLED FE ACID 190 BBLs SLK WTR BTR 541 BBLs</p>
10:15	1.75	12:00	PFRT	Perforating	<p>PERF STG #8- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 8 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2550#, PMP 100 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8622' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8330'-8592' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.</p>
12:00	0.50	12:30	FRAC	Frac. Job	<p>ACIDIZE STG 8-- 8330'-8592' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8500 PSI. OPEN WELL AT 12:01 WITH 1590 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.7 BPM AT 4330 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 55.0 BPM AT 6810 PSI. ON PERF- 60.6 BPM AT 6930 PSI. END ACID 58.6 BPM AT 6060 PSI FLUSH WITH 153.1 BBL. 61.6 BPM AT 6300 PSI.</p> <p>ISIP 2370 PSI FG .71 MAX RATE 63.2 BPM MAX PRES 7258 PSI AVE RATE 41.4 BPM AVE PRES 5159 PSI PMP 357 BBLs GELLED FE ACID 241 BBLs SLK WTR BTR 598 BBLs</p>
12:30	1.75	14:15	PFRT	Perforating	<p>PERF STG #9- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 9 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2610#, PMP 78 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8300' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8008'-8270' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.</p>
14:15	0.50	14:45	FRAC	Frac. Job	<p>ACIDIZE STG 9-- 8008'-8270" IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8700 PSI. OPEN WELL AT 14:08 WITH 1580 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.7 BPM AT 3760 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 58.9 BPM AT 6210 PSI. ON PERF- 61.4 BPM AT 6400 PSI. END ACID 61.2 BPM AT 6290 PSI FLUSH WITH 145.5 BBL. 61.8 BPM AT 6180 PSI.</p> <p>ISIP 2500 PSI FG .74 MAX RATE 61.7 BPM MAX PRES 6523 PSI AVE RATE 38.2 BPM AVE PRES 4823 PSI PMP 357 BBLs GELLED FE ACID 227.2 BBLs SLK WTR BTR 584 BBLs</p>
14:45	3.50	18:15	PFRT	Perforating	<p>PERF STG #10- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 9 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2340#, PMP 173 BBLs) TO DEPTH. PULL UP TO SET CFP AT 7978'. DID NOT SEE PLUG SET, LINE READING INDICATING NOT SET. POOH AT 100 FPM. STILL HAD PLUG. FOUND LOOSE WIRE FROM SWITCH TO DETONATOR. REPAIR, ADD DIFFERENT SETTING TOOL WITH PLUG. EQUALIZE 1700 PSI. OPEN AND RIH. CORRELATE TO JTS BELOW LINER. PUMP DOWN 2 BPM TO 10 BPM (PRES 2670 PSI, PMP 75 BBLs) TO DEPTH. PULL UP AND SET CFP AT 7978' WITH 1750 PSI. PULL UP AND PERF UTELAND BUTTE FORM 7686'-7948' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:15	0.50	18:45	FRAC	Frac. Job	ACIDIZE STG 10-- 7686-7948' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8500 PSI. OPEN WELL AT 18:11 WITH 1540 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.8 BPM AT 3760 PSI. STAGE TO ACID. PUMP 7500 GAL 15% GELLED FE ACID. 47.2 BPM AT 5610 PSI. START OF 60 BIO BALLS FOR DIVERSION. ACID ON PERF- 47.8 BPM AT 5420 PSI. END ACID 61.2 BPM AT 6290 PSI BALLS ON PERFS- PRES CAME UP. SOME BALL ACTION. FLUSH WITH 138 BBL. 47.0 BPM AT 6320 PSI. PRES CAME UP WITH SOME BALL ACTION. TURN OVER TO SLB WITH 2590 PSI. ISIP 2590 PSI FG .81 MAX RATE 47.8 BPM MAX PRES 6495 PSI AVE RATE 36.5 BPM AVE PRES 5030 PSI PMP 357 BBLs GELLED FE ACID 210 BBLs SLK WTR BTR 567 BBLs
18:45	1.75	20:30	PFRT	Perforating	PERF STG 11- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 11 INTO LUBE AND EQUALIZE 1750 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2610#, PMP 78 BBLs) TO DEPTH. PULL UP AND SET CFP AT 7656' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 7320'-7502' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DID NOT DROP BALL SO BASIC COULD BLOW OUT LINES. SHUT IN AND SECURE WELL WITH PSI.
20:30	9.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. WINTERIZE WELL HEAD.

5H-1-46 UB BTR 3/7/2013 06:00 - 3/8/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	SMTG	Safety Meeting	HOLD SAFETY MEETING W/ ALL CONTRACTORS ON LOCATION ON DAILY OPERATION.
08:00	1.00	09:00	ACID	Acid Wash/Squeeze	R/U BASIC ENERGY. TEST LINES TO 8500 PSI. ACIDIZE STG 11. PERFS F/ 7020' TO 7502'. 45 HOLES. OPEN WELL 1340 PSI. BROKE DOWN @ 19.6 BPM, 3920 PSI. PUMP 1500 GAL ACID 15% HCL. DROP 90 BIO-BALLS. FLUSH W/ 135 BBLs 2% KCL. ISIP- 2300. FG- .74. SHUT WELL IN. TOTAL BBLs- 572. MAX RATE- 50.4. MAX PSI- 7060. AVG RATE- 36.9. AVG PSI- 4688. SHUT WELL IN.
09:00	1.00	10:00	CTUW	W/L Operation	RU SLB WIRELINE. RIH W/ 5.5 CBP & 3-1/8 PJ OMEGA 3104 PERF GUN. PUMP PLUG DOWN & SET PLUG @ 7307'. PERF UTELAND BUTTE STG 12 F/ 7165' TO 7292'. 36 HOLES. 120 PH, 3 TO 6 SPF. R/D SLB.
10:00	1.00	11:00	ACID	Acid Wash/Squeeze	R/U BASIC ENERGY. TEST LINES TO 8500 PSI. ACIDIZE STG 12. PERFS F/ 7165' TO 7292'. 36 HOLES. OPEN WELL O PSI. BROKE DOWN @ 19.6 BPM, 3150 PSI. PUMP 1500 GAL ACID 15% HCL. DROP 72 BIO-BALLS. FLUSH W/ 128 BBLs 2% KCL. ISIP- 2550. FG- .78. SHUT WELL IN. TOTAL BBLs- 550. MAX RATE- 50.5. MAX PSI- 8091. AVG RATE- 32.6. AVG PSI- 4530. SHUT WELL IN.
11:00	1.50	12:30	SRIG	Rig Up/Down	R/D BASIC & SLB. MOL.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE.

5H-1-46 UB BTR 3/8/2013 06:00 - 3/9/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	FBCK	Flowback Well	WELL FLOWING TO SALES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
20:00	2.25	22:15	SRIG	Rig Up/Down	MOVE COIL STACK OVER FROM UB. NU TO FRAC VALVES. X-OUT MILLING TOOLS. PRES AND FUNCTION TEST TOOLS. PRES TEST LUBE TO 5000 PSI.
22:15	1.50	23:45	RUTB	Run Tubing	RIH W/ 3-7/8" MILL, MOTOR, DUAL AGITATORS, AV SUB, HYD DISCONNECT, BI-DI JARS. AT 200' START CIRC .5 BPM. AT 6500' START CIRC AT 3 BPM.
23:45	2.25	02:00	DOPG	Drill Out Plugs	DRILL OUT PLUGS. CFP #1 AT 7305'. D/O IN 10 MIN. PMP 3.0, RETURN 3.0, WHP 1000 PSI. CFP #2 AT 7656'. D/O IN 25 MIN. PMP 3.0, RETURN 3.25, WHP 700 PSI. CFP #3 AT 7978'. D/O IN 25 MIN. PMP 3.0, RETURN 3.25, WHP 700 PSI. CFP #4 AT 8300'. D/O IN 21 MIN. PMP 3.0, RETURN 3.25, WHP 600 PSI. RIH AND TAG CFP #5 AT 8622'. PMP SWEEP.
02:00	1.00	03:00	TRIP	Tripping	MAKE WIPER TRIP UP TO 6500'. RUN BACK IN TO PLUG #5
03:00	3.00	06:00	DOPG	Drill Out Plugs	CFP #5 AT 8622'. D/O IN 26 MIN. PMP 3.0, RETURN 3.5, WHP 500 PSI. CFP #6 AT 8944'. D/O IN 24 MIN. PMP 3.0, RETURN 3.5, WHP 550 PSI. CFP #7 AT 9266'. D/O IN 30 MIN. PMP 3.0, RETURN 3.25, WHP 550 PSI. (25' SAND UNDER PLUG) CFP #8 AT 9588'. D/O IN 30 MIN. PMP 3.0, RETURN 3.25, WHP 950 PSI.

5H-1-46 UB BTR 3/9/2013 06:00 - 3/10/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.59	07:35	TRIP	Tripping	Tag CFP #9 At 9,910'. Make Wiper Trip, Pull Out To 6,520', RBIH To CFP #9.
07:35	0.83	08:25	DOPG	Drill Out Plugs	Tag CFP #9 At 9,910'. 800#'s, 3.5 Bpm Returns. DrillOut In 50 Min., 800#'s, 3.5 Bpm Returns.
08:25	0.75	09:10	TRIP	Tripping	TIH To Next Plug.
09:10	0.67	09:50	DOPG	Drill Out Plugs	Tag CFP #10 At 10,232'. 900#'s, 3.0 Bpm Returns. DrillOut In 38 Min., 750#'s, 3.5 Bpm Returns.
09:50	0.50	10:20	TRIP	Tripping	TIH To Next Plug
10:20	0.92	11:15	DOPG	Drill Out Plugs	Tag CFP #11 At 10,554'. 900#'s, 3.0 Bpm Returns. DrillOut In 55 Min., 700#'s, 3.25 Bpm Returns
11:15	0.58	11:50	TRIP	Tripping	TIH To RSI.
11:50	0.50	12:20	CLN	Clean Out Hole	Cleaned Out To RSI At 10,876'. 800#'s, 3.5 Bpm Returns. Pump 2 20 Bbl. Sweeps, Circulate For 30 Minutes.
12:20	2.42	14:45	TRIP	Tripping	TOOH With Coil.
14:45	0.50	15:15	GOP	General Operations	PULL INTO LUBE. SHUT WELL IN. BLEED OFF. REMOVE MILLING TOOLS.
15:15	1.25	16:30	GOP	General Operations	SET INJECTOR HEAD BACK ON STACK. BLOW COIL DRY WITH N2.
16:30	1.00	17:30	SRIG	Rig Up/Down	RD CTS COIL UNIT.
17:30	12.49	06:00	FBCK	Flowback Well	OPEN WELL TO FBT AT 17:00 ON 24/64" CHOKE. FP 600 PSI. FLOW 120 BBLs TILL MAKING GAS. TURN OVER TO FBC AND SALES AT 19:00.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL
FORM APPROVED
OMB NO. 1010-0137
Expires: 03/31/2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

2. Name of Operator **BILL BARRETT CORPORATION** Contact: **VENESSA LANGMACHER**
 E-Mail: **vlangmacher@billbarrettcorp.com**

3. Address **1099 18TH STREET SUITE 2300 DENVER, CO 80202** 3a. Phone No. (include area code)
 Ph: **303-312-8172**

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **Sec 6 T4S R5W Mer UBM SWNW 2666FNL 286FWL**
 At top prod interval reported below **Sec 1 T4S R6W Mer UBM SWNE 2096FNL 2187FEL**
 At total depth **Sec 1 T4S R6W Mer UBM SWNW 2098FNL 672FWL**

14. Date Spudded **09/15/2012** 15. Date T.D. Reached **02/02/2013** 16. Date Completed
 D & A Ready to Prod. **03/07/2013**

18. Total Depth: MD **11380** TVD **6833** 19. Plug Back T.D.: MD **10954** TVD **6865**

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

5. Lease Serial No.
20G0005608

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
5H-1-46 BTR UB

9. API Well No.
43-013-51215

10. Field and Pool, or Exploratory
CEDAR RIM

11. Sec., T., R., M., or Block and Survey or Area **Sec 6 T4S R5W Mer UBM**

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

17. Elevations (DF, KB, RT, GL)*
5941 GL

20. Depth Bridge Plug Set: MD **TVD**

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80					
12.250	9.625 J-55	36.0	0	2522	2522	640	281	0	
8.750	7.000 P-110	26.0	0	7153	7153	770	268	1846	
6.125	4.500 P-110	11.6	6027	11044	11044	460	172	6027	

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	6866							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	8974	10846	8974 TO 10846	0.440	360	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
8974 TO 10846	SEE ATTACHED STAGES 1-6

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
03/07/2013	03/10/2013	24	→	596.0	144.0	303.0	52.0		FLOWES FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
22/64	0	1000.0	→	596	144	303	241	POW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #203370 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECEIVED
APR 04 2013

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	2673
				MAHOGANY	3520
				TGR3	4753
				DOUGLAS CREEK	5680
				BLACK SHALE	6532
				CASTLE PEAK	6745
				UTELAND BUTTE	7160

32. Additional remarks (include plugging procedure):
 TOC was calculated by CBL. First gas sales were on 3/7/13 and first oil sales were on 3/10/13. Conductor cemented with grout. Attached is treatment data and end of well report.

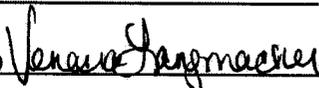
33. Circle enclosed attachments:

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

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

Electronic Submission #203370 Verified by the BLM Well Information System.
 For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) VENESSA LANGMACHER Title SENIOR PERMIT ANALYST

Signature  (Electronic Submission) Date 04/04/2013

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 ****

Bill Barrett Corp

Duchesne County, UT (NAD 1927)
Sec. 6-T4S-R5W (BTR 6-45 PAD)
Uteland Butte 5H-1-46 BTR - A3

Plan D

Design: Sperry Final Surveys

Sperry Drilling Services Standard Report

18 March, 2013

Well Coordinates: 667,590.99 N, 2,279,395.74 E (40° 09' 42.96" N, 110° 30' 01.06" W)
Ground Level: 5,932.00 ft

Local Coordinate Origin: Centered on Well Uteland Butte 5H-1-46 BTR - Slot A
Viewing Datum: KB=23' @ 5955.00ft (Nabors M-22)
TVDs to System: N
North Reference: True
Unit System: API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

HALLIBURTON

HALLIBURTON**Design Report for Uteland Butte 5H-1-46 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
216.00	0.76	258.540	215.99	-0.28	-1.40	1.35	0.35
First Sperry MWD Survey (Orig Hole) @ 216.00' MD							
277.00	0.76	257.640	276.99	-0.45	-2.20	2.11	0.02
340.00	0.87	258.260	339.98	-0.64	-3.07	2.95	0.18
400.00	0.83	258.280	399.98	-0.82	-3.94	3.79	0.07
461.00	0.77	257.990	460.97	-0.99	-4.78	4.59	0.10
522.00	0.85	247.660	521.96	-1.25	-5.60	5.36	0.27
569.00	0.85	257.950	568.96	-1.46	-6.26	5.99	0.32
614.00	0.97	250.150	613.95	-1.66	-6.94	6.64	0.38
661.00	1.01	250.180	660.95	-1.93	-7.71	7.35	0.09
705.00	0.97	252.040	704.94	-2.18	-8.43	8.03	0.12
767.00	1.25	237.680	766.93	-2.70	-9.50	9.02	0.63
828.00	1.44	240.020	827.91	-3.44	-10.72	10.13	0.32
889.00	1.25	233.060	888.89	-4.22	-11.92	11.20	0.41
950.00	0.23	235.820	949.89	-4.69	-12.55	11.76	1.67
1,011.00	0.64	57.080	1,010.89	-4.58	-12.37	11.59	1.43
1,072.00	0.33	99.210	1,071.88	-4.42	-11.91	11.16	0.74
1,133.00	0.23	328.500	1,132.88	-4.34	-11.80	11.06	0.84
1,195.00	1.18	320.720	1,194.88	-3.74	-12.27	11.61	1.54
1,256.00	1.35	327.420	1,255.86	-2.65	-13.05	12.54	0.37
1,318.00	1.45	324.930	1,317.85	-1.39	-13.90	13.56	0.19
1,379.00	1.43	325.170	1,378.83	-0.14	-14.78	14.61	0.03
1,440.00	1.33	309.450	1,439.81	0.94	-15.76	15.73	0.64
1,502.00	1.57	299.580	1,501.79	1.82	-17.05	17.14	0.56
1,563.00	1.57	287.960	1,562.77	2.49	-18.57	18.74	0.52
1,625.00	1.18	269.060	1,624.75	2.74	-20.02	20.21	0.96
1,672.00	1.23	268.760	1,671.74	2.72	-21.01	21.18	0.11
1,720.00	1.42	265.190	1,719.73	2.66	-22.12	22.27	0.43
1,767.00	1.54	277.960	1,766.71	2.70	-23.32	23.47	0.74
1,815.00	1.92	300.640	1,814.69	3.19	-24.65	24.86	1.62
1,862.00	2.10	302.370	1,861.66	4.06	-26.06	26.37	0.40
1,910.00	2.58	305.460	1,909.62	5.15	-27.68	28.13	1.03
1,972.00	3.11	313.440	1,971.54	7.12	-30.04	30.74	1.07
2,035.00	3.54	318.880	2,034.44	9.76	-32.56	33.62	0.85
2,098.00	4.65	321.910	2,097.28	13.24	-35.41	36.94	1.79
2,162.00	6.27	328.160	2,160.98	18.25	-38.86	41.06	2.69
2,225.00	7.51	329.940	2,223.53	24.73	-42.73	45.82	2.00
2,288.00	8.57	329.890	2,285.91	32.36	-47.15	51.28	1.68
2,335.00	8.54	329.680	2,332.38	38.40	-50.67	55.62	0.09
2,383.00	8.40	328.190	2,379.86	44.46	-54.32	60.09	0.54
2,430.00	8.61	326.020	2,426.34	50.29	-58.09	64.66	0.82
2,454.00	8.73	326.550	2,450.07	53.30	-60.10	67.08	0.60
2,582.00	7.20	319.090	2,576.83	67.47	-70.71	79.60	1.44
2,629.00	6.54	313.780	2,623.50	71.55	-74.57	84.00	1.95
2,677.00	7.30	314.370	2,671.15	75.57	-78.72	88.88	1.59
2,724.00	8.64	315.230	2,717.69	80.16	-83.34	93.91	2.86
2,772.00	8.53	315.650	2,765.15	85.27	-88.37	99.62	0.26
2,819.00	7.95	317.170	2,811.67	90.15	-93.02	104.91	1.32
2,867.00	7.93	320.590	2,859.21	95.14	-97.38	109.93	0.98

HALLIBURTON**Design Report for Uteland Butte 5H-1-46 BTR - Sperry Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2,914.00	8.56	321.470	2,905.72	100.38	-101.61	114.88	1.37
2,962.00	9.14	318.910	2,953.15	106.05	-106.35	120.37	1.46
3,009.00	8.28	310.810	2,999.61	111.07	-111.36	126.04	3.18
3,057.00	7.23	311.590	3,047.17	115.34	-116.24	131.48	2.20
3,104.00	7.35	313.450	3,093.79	119.37	-120.63	136.40	0.56
3,151.00	8.37	317.290	3,140.35	123.95	-125.13	141.51	2.44
3,198.00	9.07	321.360	3,186.81	129.36	-129.77	146.87	1.98
3,246.00	9.88	326.320	3,234.15	135.74	-134.41	152.38	2.39
3,293.00	9.82	328.570	3,280.46	142.51	-138.74	157.62	0.83
3,340.00	9.56	332.000	3,326.79	149.38	-142.66	162.48	1.35
3,387.00	10.75	334.640	3,373.05	156.79	-146.37	167.21	2.72
3,433.00	12.19	334.270	3,418.13	165.04	-150.32	172.29	3.13
3,480.00	11.32	331.230	3,464.15	173.55	-154.69	177.83	2.27
3,528.00	10.60	325.690	3,511.27	181.33	-159.45	183.65	2.66
3,575.00	10.96	326.890	3,557.44	188.64	-164.32	189.52	0.90
3,623.00	11.43	329.560	3,604.53	196.56	-169.23	195.50	1.46
3,670.00	11.48	332.870	3,650.59	204.74	-173.72	201.11	1.40
3,717.00	12.30	333.980	3,696.59	213.40	-178.05	206.63	1.81
3,764.00	12.22	329.730	3,742.51	222.20	-182.75	212.54	1.93
3,812.00	11.13	323.980	3,789.52	230.33	-188.04	218.93	3.32
3,859.00	10.24	319.790	3,835.71	237.19	-193.40	225.21	2.51
3,907.00	9.82	326.450	3,882.98	243.86	-198.42	231.13	2.57
3,954.00	10.18	334.360	3,929.26	250.95	-202.43	236.11	3.02
4,002.00	11.22	335.100	3,976.43	259.01	-206.23	241.02	2.19
4,049.00	11.38	333.230	4,022.52	267.30	-210.25	246.17	0.85
4,097.00	11.28	337.560	4,069.58	275.86	-214.17	251.28	1.78
4,144.00	10.54	338.730	4,115.73	284.12	-217.49	255.74	1.64
4,192.00	9.48	336.070	4,163.00	291.82	-220.68	260.00	2.41
4,239.00	8.44	331.040	4,209.43	298.38	-223.92	264.14	2.77
4,287.00	7.86	332.800	4,256.94	304.38	-227.13	268.17	1.32
4,334.00	7.24	332.150	4,303.54	309.86	-229.98	271.77	1.33
4,382.00	7.88	331.380	4,351.12	315.42	-232.97	275.52	1.35
4,429.00	7.26	326.520	4,397.71	320.72	-236.15	279.42	1.90
4,477.00	7.82	321.880	4,445.29	325.82	-239.84	283.80	1.72
4,524.00	9.06	319.380	4,491.78	331.15	-244.22	288.90	2.75
4,572.00	9.96	317.190	4,539.12	337.06	-249.51	294.97	2.02
4,619.00	9.30	312.450	4,585.46	342.61	-255.07	301.27	2.19
4,667.00	8.41	307.180	4,632.89	347.35	-260.73	307.54	2.51
4,714.00	7.54	301.350	4,679.44	351.03	-266.10	313.38	2.53
4,762.00	6.90	293.870	4,727.06	353.83	-271.43	319.06	2.37
4,809.00	7.03	298.110	4,773.71	356.33	-276.55	324.48	1.13
4,857.00	7.37	299.790	4,821.33	359.24	-281.81	330.10	0.83
4,904.00	7.02	297.700	4,867.96	362.08	-286.97	335.61	0.93
4,952.00	6.60	296.220	4,915.62	364.66	-292.04	341.00	0.95
4,999.00	5.99	292.670	4,962.34	366.80	-296.72	345.94	1.54
5,047.00	5.75	286.040	5,010.09	368.43	-301.35	350.75	1.50
5,094.00	6.17	281.830	5,056.83	369.60	-306.08	355.60	1.29
5,142.00	7.22	280.090	5,104.51	370.65	-311.58	361.19	2.23
5,189.00	8.05	279.540	5,151.09	371.72	-317.73	367.43	1.77
5,236.00	8.30	284.430	5,197.61	373.11	-324.26	374.10	1.57
5,283.00	8.48	292.230	5,244.11	375.26	-330.75	380.83	2.45

Design Report for Uteland Butte 5H-1-46 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
5,331.00	8.98	300.040	5,291.56	378.48	-337.27	387.74	2.68
5,378.00	9.26	303.900	5,337.96	382.42	-343.59	394.55	1.43
5,426.00	9.07	305.360	5,385.35	386.77	-349.88	401.40	0.63
5,473.00	8.47	306.230	5,431.80	390.96	-355.69	407.75	1.31
5,521.00	7.63	308.860	5,479.33	395.04	-361.02	413.61	1.91
5,568.00	6.79	312.030	5,525.95	398.86	-365.52	418.60	1.98
5,616.00	6.74	315.720	5,573.62	402.78	-369.59	423.19	0.91
5,663.00	6.15	321.920	5,620.32	406.74	-373.07	427.20	1.94
5,711.00	5.58	337.250	5,668.08	410.91	-375.56	430.26	3.46
5,758.00	5.04	346.130	5,714.87	415.02	-376.94	432.21	2.09
5,806.00	3.75	359.960	5,762.73	418.64	-377.44	433.22	3.46
5,853.00	2.41	356.700	5,809.67	421.16	-377.50	433.64	2.87
5,901.00	2.13	337.720	5,857.63	423.00	-377.90	434.29	1.66
5,948.00	1.96	315.720	5,904.60	424.38	-378.79	435.37	1.70
5,996.00	1.69	288.090	5,952.58	425.19	-380.04	436.72	1.90
6,043.00	1.56	279.770	5,999.56	425.51	-381.33	438.04	0.57
6,091.00	1.68	285.590	6,047.54	425.81	-382.65	439.40	0.42
6,138.00	1.92	290.110	6,094.51	426.27	-384.05	440.85	0.59
6,186.00	2.43	301.400	6,142.48	427.07	-385.67	442.57	1.38
6,233.00	2.35	315.030	6,189.44	428.28	-387.21	444.26	1.22
6,281.00	2.38	334.550	6,237.40	429.87	-388.33	445.60	1.67
6,328.00	2.44	342.920	6,284.36	431.71	-389.04	446.56	0.76
6,376.00	2.64	342.480	6,332.31	433.74	-389.68	447.48	0.42
6,419.00	3.49	350.320	6,375.25	435.97	-390.19	448.31	2.20
6,463.00	4.54	359.370	6,419.14	439.04	-390.44	448.99	2.78
6,495.00	4.62	347.180	6,451.04	441.56	-390.74	449.65	3.05
6,526.00	6.61	327.670	6,481.89	444.28	-391.97	451.25	8.81
6,558.00	9.34	317.490	6,513.58	447.76	-394.71	454.46	9.57
6,590.00	11.91	311.250	6,545.03	451.85	-398.95	459.24	8.79
6,621.00	14.19	308.430	6,575.23	456.32	-404.33	465.20	7.63
6,653.00	15.90	300.120	6,606.13	460.96	-411.20	472.66	8.59
6,685.00	18.29	291.800	6,636.72	465.02	-419.65	481.61	10.67
6,716.00	21.25	283.970	6,665.90	468.19	-429.62	491.93	12.79
6,748.00	25.04	278.710	6,695.32	470.61	-441.95	504.47	13.48
6,779.00	28.47	277.510	6,723.00	472.57	-455.77	518.43	11.20
6,811.00	30.90	278.280	6,750.79	474.75	-471.46	534.27	7.69
6,843.00	33.47	278.030	6,777.88	477.17	-488.33	551.32	8.04
6,874.00	35.59	278.210	6,803.41	479.65	-505.73	568.89	6.85
6,906.00	38.43	278.180	6,828.96	482.40	-524.79	588.15	8.88
6,938.00	41.60	277.030	6,853.47	485.11	-545.18	608.72	10.17
6,969.00	44.78	275.670	6,876.07	487.45	-566.27	629.92	10.69
7,001.00	47.69	273.670	6,898.20	489.32	-589.30	652.98	10.15
7,033.00	49.51	271.980	6,919.36	490.50	-613.27	676.88	6.93
7,064.00	51.50	271.190	6,939.08	491.16	-637.18	700.64	6.71
7,096.00	53.48	271.640	6,958.56	491.79	-662.55	725.84	6.29
7,128.00	57.40	271.810	6,976.71	492.58	-688.89	752.03	12.26
7,159.00	60.61	271.610	6,992.67	493.38	-715.45	778.43	10.37
7,191.00	64.89	271.770	7,007.32	494.22	-743.88	806.68	13.38
7,223.00	69.49	271.860	7,019.72	495.15	-773.35	835.99	14.38
Tie-On SideTrack to Original Hole @ 7223.00' MD							
7,248.00	67.05	270.700	7,028.98	495.67	-796.57	859.05	10.67

HALLIBURTON**Design Report for Uteland Butte 5H-1-46 BTR - Sperry Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
First Sperry MWD Survey (SideTrack) @ 7248.00' MD							
7,281.00	62.22	274.760	7,043.12	497.07	-826.34	888.71	18.38
7,313.00	62.13	274.350	7,058.05	499.32	-854.55	916.95	1.17
7,345.00	64.62	275.310	7,072.39	501.73	-883.05	945.51	8.23
7,376.00	67.03	274.490	7,085.09	504.14	-911.22	973.74	8.14
7,408.00	69.58	273.630	7,096.92	506.24	-940.88	1,003.39	8.35
7,439.00	71.82	272.400	7,107.16	507.78	-970.10	1,032.53	8.14
7,471.00	74.28	271.050	7,116.49	508.70	-1,000.69	1,062.94	8.68
7,503.00	77.05	270.470	7,124.41	509.11	-1,031.69	1,093.68	8.83
7,534.00	80.27	270.940	7,130.51	509.48	-1,062.07	1,123.81	10.49
7,565.00	86.43	271.700	7,134.10	510.19	-1,092.84	1,154.37	20.02
7,597.00	90.74	271.500	7,134.89	511.09	-1,124.81	1,186.14	13.48
7,608.00	92.62	271.780	7,134.56	511.40	-1,135.80	1,197.06	17.28
7,636.00	96.43	271.400	7,132.35	512.18	-1,163.70	1,224.79	13.67
7,667.00	98.20	270.710	7,128.41	512.74	-1,194.44	1,255.29	6.12
7,699.00	98.35	270.940	7,123.80	513.20	-1,226.10	1,286.70	0.85
7,731.00	98.26	271.210	7,119.18	513.79	-1,257.76	1,318.12	0.88
7,778.00	99.96	272.000	7,111.74	515.09	-1,304.15	1,364.22	3.98
7,825.00	101.10	273.290	7,103.15	517.22	-1,350.31	1,410.21	3.63
7,872.00	101.10	273.400	7,094.10	519.91	-1,396.35	1,456.17	0.23
7,920.00	101.13	273.640	7,084.85	522.81	-1,443.36	1,503.11	0.49
7,967.00	101.02	273.940	7,075.82	525.86	-1,489.38	1,549.10	0.67
8,015.00	100.89	274.260	7,066.70	529.22	-1,536.39	1,596.10	0.71
8,062.00	100.71	274.400	7,057.89	532.71	-1,582.42	1,642.17	0.48
8,109.00	100.41	274.150	7,049.28	536.15	-1,628.50	1,688.26	0.83
8,156.00	100.47	274.370	7,040.76	539.59	-1,674.59	1,734.38	0.48
8,204.00	100.37	274.340	7,032.08	543.17	-1,721.67	1,781.48	0.22
8,251.00	100.51	274.300	7,023.56	546.65	-1,767.76	1,827.59	0.31
8,299.00	100.78	274.470	7,014.70	550.26	-1,814.79	1,874.66	0.66
8,331.00	100.44	275.170	7,008.80	552.90	-1,846.13	1,906.06	2.40
8,394.00	100.37	275.290	6,997.43	558.55	-1,907.84	1,967.94	0.22
8,441.00	97.51	274.570	6,990.12	562.54	-1,954.09	2,014.29	6.27
8,488.00	95.89	272.850	6,984.64	565.56	-2,000.67	2,060.83	5.01
8,535.00	95.36	272.790	6,980.03	567.86	-2,047.39	2,107.39	1.13
8,583.00	93.47	271.150	6,976.34	569.51	-2,095.21	2,154.97	5.21
8,630.00	93.29	270.200	6,973.57	570.06	-2,142.13	2,201.48	2.05
8,678.00	91.78	270.520	6,971.44	570.36	-2,190.08	2,248.99	3.22
8,725.00	91.58	269.650	6,970.06	570.43	-2,237.06	2,295.50	1.90
8,773.00	91.71	270.050	6,968.69	570.30	-2,285.04	2,342.97	0.88
8,804.00	92.25	270.450	6,967.62	570.44	-2,316.02	2,373.65	2.17
8,899.00	91.41	269.610	6,964.58	570.49	-2,410.97	2,467.64	1.25
8,962.00	91.98	270.790	6,962.72	570.71	-2,473.94	2,530.00	2.08
9,009.00	91.75	271.000	6,961.19	571.44	-2,520.91	2,576.60	0.66
9,057.00	92.79	271.970	6,959.29	572.68	-2,568.85	2,624.23	2.96
9,104.00	92.75	271.560	6,957.02	574.13	-2,615.78	2,670.88	0.88
9,151.00	94.11	271.740	6,954.20	575.48	-2,662.67	2,717.49	2.92
9,198.00	95.22	270.180	6,950.38	576.27	-2,709.51	2,763.96	4.06
9,246.00	94.98	270.330	6,946.11	576.48	-2,757.32	2,811.31	0.59
9,293.00	93.60	269.560	6,942.60	576.43	-2,804.18	2,857.70	3.36
9,341.00	93.50	269.290	6,939.63	575.95	-2,852.09	2,905.04	0.60
9,436.00	98.02	270.240	6,930.09	575.56	-2,946.58	2,998.52	4.86

HALLIBURTON**Design Report for Uteland Butte 5H-1-46 BTR - Sperry Final Surveys**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
9,530.00	97.38	269.700	6,917.50	575.51	-3,039.73	3,090.71	0.89
9,625.00	96.46	270.180	6,906.05	575.42	-3,134.04	3,184.04	1.09
9,672.00	95.12	272.030	6,901.31	576.32	-3,180.79	3,230.45	4.84
9,720.00	95.01	271.280	6,897.07	577.70	-3,228.58	3,277.95	1.57
9,767.00	92.75	272.040	6,893.89	579.06	-3,275.45	3,324.53	5.07
9,814.00	91.08	271.920	6,892.32	580.68	-3,322.39	3,371.23	3.56
9,861.00	91.21	271.380	6,891.38	582.03	-3,369.37	3,417.91	1.18
9,909.00	91.58	271.500	6,890.22	583.24	-3,417.34	3,465.57	0.81
9,956.00	91.28	271.220	6,889.04	584.35	-3,464.31	3,512.22	0.87
10,004.00	91.01	271.590	6,888.08	585.53	-3,512.28	3,559.87	0.95
10,051.00	90.37	271.080	6,887.52	586.63	-3,559.27	3,606.53	1.74
10,099.00	90.30	270.890	6,887.24	587.45	-3,607.26	3,654.15	0.42
10,146.00	90.57	271.020	6,886.88	588.23	-3,654.25	3,700.78	0.64
10,193.00	90.07	270.170	6,886.62	588.72	-3,701.25	3,747.36	2.10
10,240.00	90.51	270.440	6,886.38	588.97	-3,748.25	3,793.92	1.10
10,288.00	90.10	269.710	6,886.12	589.04	-3,796.24	3,841.44	1.74
10,335.00	91.85	271.220	6,885.32	589.42	-3,843.23	3,888.00	4.92
10,383.00	91.81	272.030	6,883.79	590.78	-3,891.19	3,935.66	1.69
10,422.00	91.44	271.630	6,882.69	592.02	-3,930.15	3,974.41	1.40
10,470.00	91.28	270.970	6,881.55	593.11	-3,978.13	4,022.05	1.41
10,517.00	91.51	270.050	6,880.40	593.53	-4,025.11	4,068.61	2.02
10,565.00	91.91	269.790	6,878.97	593.46	-4,073.09	4,116.09	0.99
10,612.00	92.39	270.050	6,877.21	593.40	-4,120.06	4,162.57	1.16
10,659.00	92.15	269.940	6,875.34	593.39	-4,167.02	4,209.05	0.56
10,706.00	94.30	269.390	6,872.70	593.12	-4,213.94	4,255.46	4.72
10,754.00	95.15	270.070	6,868.75	592.89	-4,261.78	4,302.77	2.26
10,801.00	95.08	269.570	6,864.56	592.75	-4,308.59	4,349.09	1.07
10,849.00	94.04	268.190	6,860.74	591.81	-4,356.43	4,396.30	3.59
10,896.00	93.49	268.030	6,857.65	590.26	-4,403.30	4,442.48	1.22
10,944.00	93.36	268.280	6,854.79	588.72	-4,451.19	4,489.66	0.59
11,038.00	94.33	268.100	6,848.48	585.76	-4,544.93	4,582.02	1.05
11,133.00	92.66	267.180	6,842.69	581.85	-4,639.67	4,675.24	2.01
11,228.00	92.15	266.710	6,838.71	576.79	-4,734.45	4,768.33	0.73
11,314.00	92.15	266.810	6,835.48	571.94	-4,820.25	4,852.57	0.12
Last Sperry MWD Survey (SideTrack) @ 11314.00' MD							
11,380.00	92.15	266.810	6,833.00	568.27	-4,886.10	4,917.23	0.00
Straight Line Projection to TD (SideTrack) @ 11380.00' MD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
216.00	215.99	-0.28	-1.40	First Sperry MWD Survey (Orig Hole) @ 216.00' MD
7,223.00	7,019.72	495.15	-773.35	Tie -On SideTrack to Original Hole @ 7223.00' MD
7,248.00	7,028.98	495.67	-796.57	First Sperry MWD Survey (SideTrack) @ 7248.00' MD
11,314.00	6,835.48	571.94	-4,820.25	Last Sperry MWD Survey (SideTrack) @ 11314.00' MD
11,380.00	6,833.00	568.27	-4,886.10	Straight Line Projection to TD (SideTrack) @ 11380.00' MD

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Design Report for Uteland Butte 5H-1-46 BTR - Sperry Final Surveys

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	Uteland Butte 5H-1-46 BTR_Plan D_BHL Tgt	278.188	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
216.00	7,223.00	Sperry MWD Surveys (Orig Hole)	MWD
7,223.00	11,380.00	Sperry MWD Surveys (SideTrack)	MWD

Formation Details

Measured Depth (ft)	Vertical Depth (ft)	TVDSS (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
455.03	455.00	-5,500.00	Base Moderately Saline Water		0.00	
2,675.84	2,670.00	-3,285.00	Green River		0.00	
3,521.62	3,505.00	-2,450.00	Mahogany		0.00	
4,759.93	4,725.00	-1,230.00	TGR3		0.00	
5,647.58	5,605.00	-350.00	Douglas Creek		0.00	
6,068.45	6,025.00	70.00	3Point Marker		0.00	
6,478.91	6,435.00	480.00	Black Shale Facies		0.00	
6,709.69	6,660.00	705.00	Castle Peak		0.00	
7,115.79	6,970.00	1,015.00	Uteland Butte		0.00	

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
Uteland Butte 5H-1-46 - actual wellpath hits target center - Point	0.00	0.00	0.00	0.00	0.00	667,590.99	2,279,395.74	40° 9' 42.959 N	110° 30' 1.058 W

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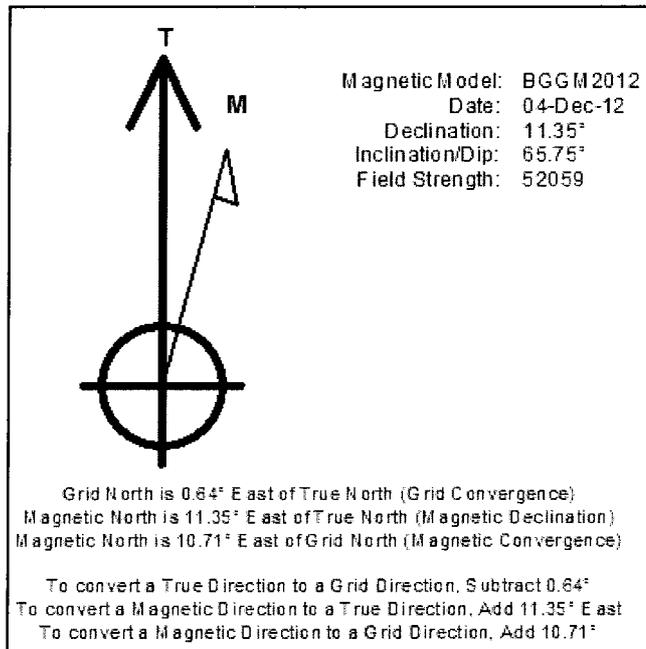
North Reference Sheet for Sec. 6-T4S-R5W (BTR 6-45 PAD) - Uteland Butte 5H-1-46 BTR - Plan D

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.
 Vertical Depths are relative to KB=23' @ 5955.00ft (Nabors M-22). Northing and Easting are relative to Uteland Butte 5H-1-46 BTR - Slot A3
 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: 0.99991507

Grid Coordinates of Well: 667,590.99 ft N, 2,279,395.74 ft E
 Geographical Coordinates of Well: 40° 09' 42.96" N, 110° 30' 01.06" W
 Grid Convergence at Surface is: 0.64°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,380.00ft
 the Bottom Hole Displacement is 4,919.04ft in the Direction of 276.63° (True).

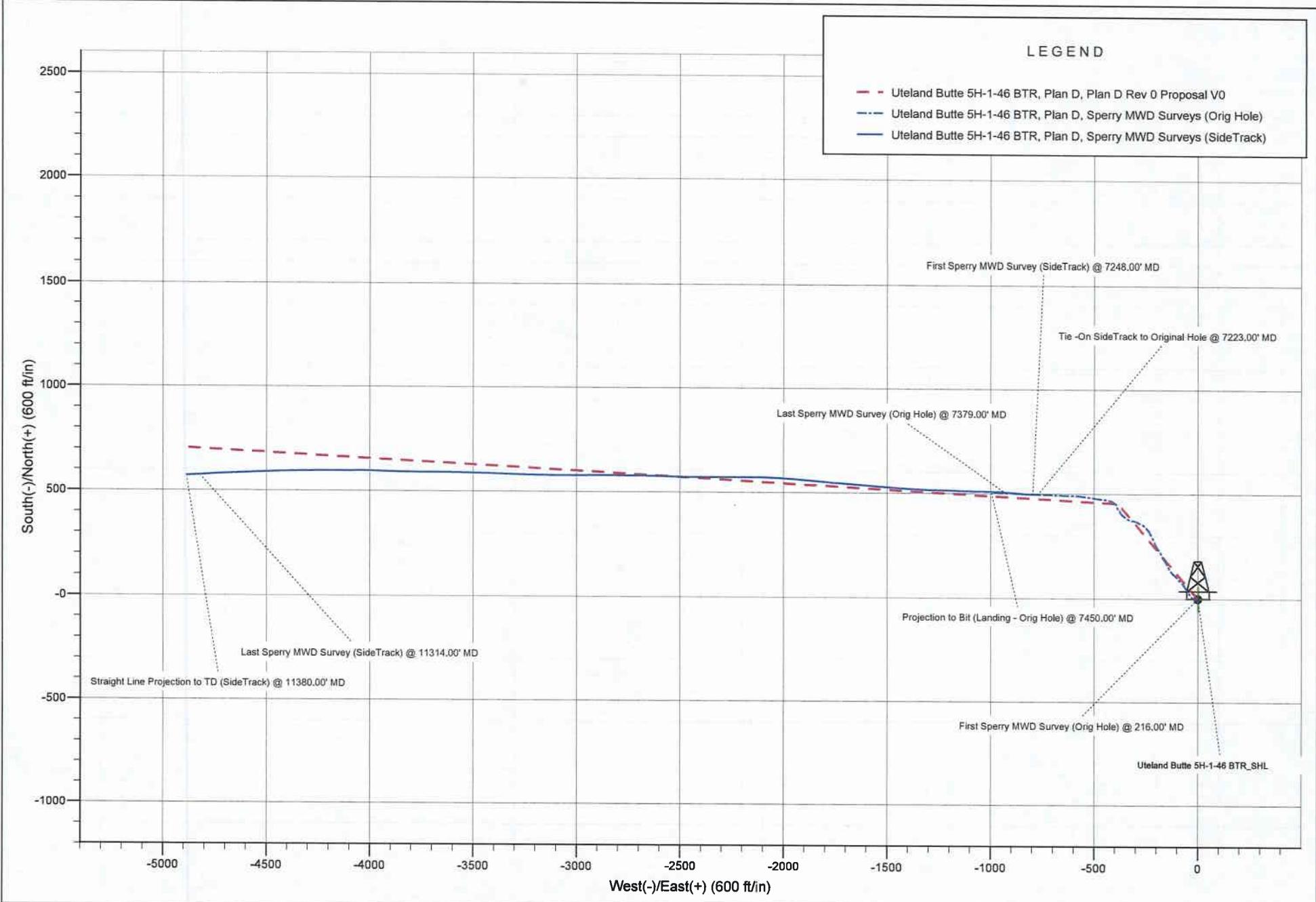
Magnetic Convergence at surface is: -10.71° (4 December 2012, , BGM2012)



Project: Duchesne County, UT (NAD 1927)
Site: Sec. 6-T4S-R5W (BTR 6-45 PAD)
Well: Uteland Butte 5H-1-46 BTR
Wellbore: Plan D
Design: Sperry Final Surveys

Bill Barrett Corp

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Sperry Drilling

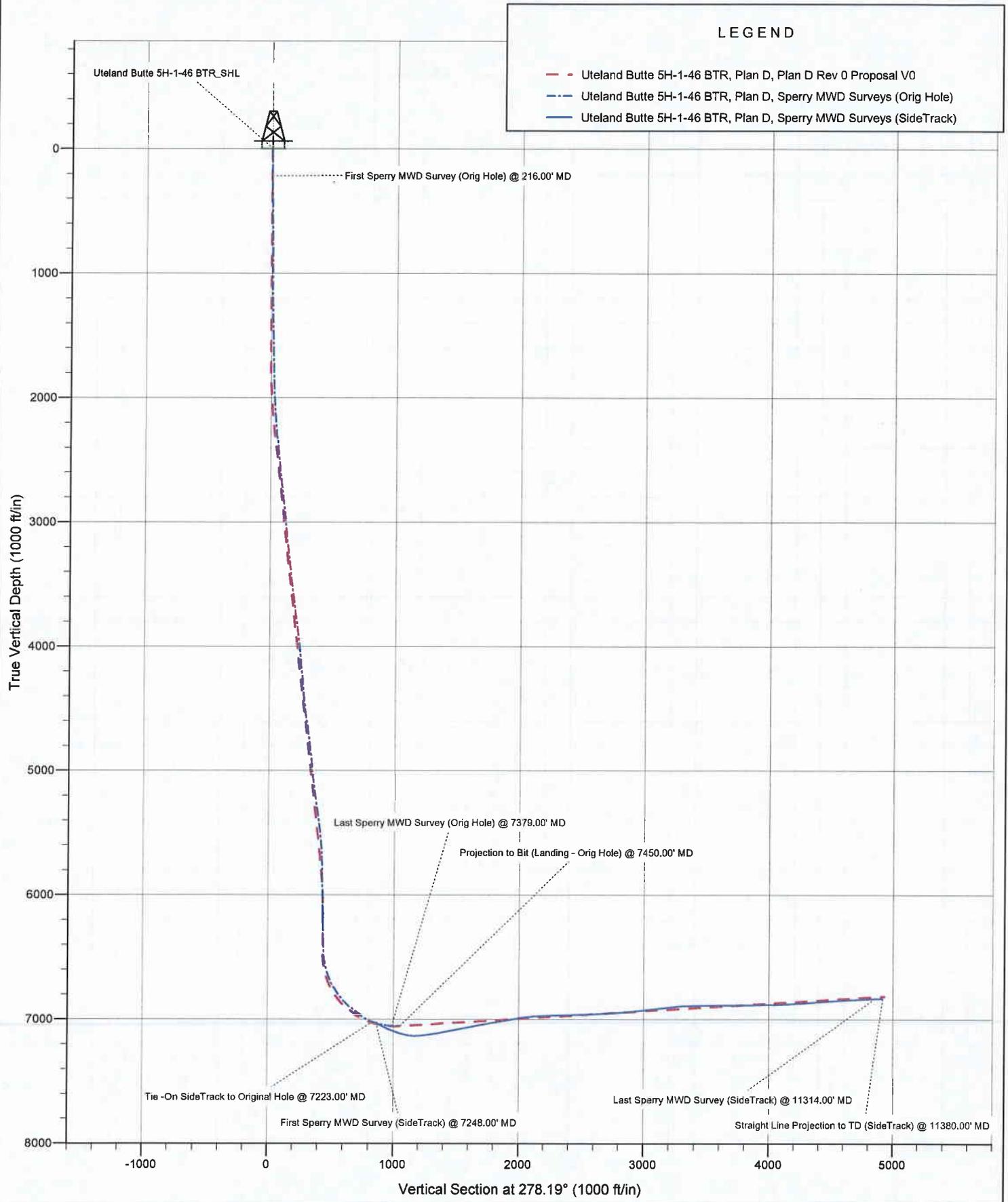


Project: Duchesne County, UT (NAD 1927)
Site: Sec. 6-T4S-R5W (BTR 6-45 PAD)
Well: Uteland Butte 5H-1-46 BTR

Bill Barrett Corp

HALLIBURTON

Sperry Drilling



5H-1-46 BTR UB Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>BBS Slurry</u>	<u>gal White 100 Mesh</u>	<u>lbs 20/40 White Sand</u>
1	1326	24,240	44,140
2	1792	24,750	83,980
3	2333	29,790	60,746
4	1741	25,600	46,700
5	2480	25,500	50,400
6	1581	24,370	43,710

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



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5H-1-46 UB BTR 12/3/2012 06:00 - 12/4/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	1	RIGUP & TEARDOWN	Walk rig to well
06:30	11.50	18:00	1	RIGUP & TEARDOWN	Rig up conductor, mouse hole etc. Flowline egg shaped from previous incident. Will repair on csg break.

5H-1-46 UB BTR 12/4/2012 06:00 - 12/5/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	20	OPEN	Rack & strap BHA, Pickup Smith 7 blade 12 1/4" PDC and 8" SperryDrill 7/8 lobe 4.0 stage .17rpg motor and dir equip.
10:00	3.50	13:30	2	DRILL ACTUAL	Drig 103-320'. 217' in 5.5 hrs 40 fph. Survey @ 277' .76* inc 257.64 az. MW 8.7#/gal 30 vis.
13:30	0.50	14:00	7	LUBRICATE RIG	Rig service
14:00	11.50	01:30	2	DRILL ACTUAL	Drig 320-777'. 457' in 11.5 hrs 40 fph. SUrvey @ 614' .97* inc 250.15 az. MW 8.7#/gal 34 vis.
01:30	0.50	02:00	7	LUBRICATE RIG	Rig service.

5H-1-46 UB BTR 12/5/2012 06:00 - 12/6/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 777-1328'. 551' in 11.5 hrs 48 fph. Survey @ 1256' 1.35* inc 327.42 az MW 8.6 34 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service
18:00	12.00	06:00	2	DRILL ACTUAL	Drill/slide 1328-1980'. 652' in 12 hrs 54fph. Survey @ 1815 1.92* inc 300.64 az MW 8.6+#/gal 34 vis.

5H-1-46 UB BTR 12/6/2012 06:00 - 12/7/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill & slide 1980-2265. Having trouble getting desired build rate sliding up to 25' per jt. Survey @ 2225' 8.4* inc 328.19 az MW 8.7#/gal 34 vis.
17:30	0.50	18:00	7	LUBRICATE RIG	Service rig
18:00	6.00	00:00	2	DRILL ACTUAL	Drill & slide 2265-2526'. Final survey @ 2454 8.73* inc 326.55 azi. MW 8.75#/gal 34 vis.
00:00	1.00	01:00	5	COND MUD & CIRC	Pump sweep.
01:00	2.50	03:30	6	TRIPS	TOH for sfc csg
03:30	2.00	05:30	20	DIRECTIONAL WORK	Laydown 8" dir equip and bit & motor
05:30	0.50	06:00	12	RUN CASING & CEMENT	Rig up Kimsey csg service

5H-1-46 UB BTR 12/7/2012 06:00 - 12/8/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	12	RUN CASING & CEMENT	Run 56 jts 9 5/8" 36# J55 casing with 1 jt shoe track. Land @2521' kb.
10:30	2.00	12:30	5	COND MUD & CIRC	Circulate while rigging up HES
12:30	5.50	18:00	12	RUN CASING & CEMENT	Cmt as follows. P-test to 3K pump 20 bbl water, 40 bbl superflush, 20 bbl water, 400sk (225bbl) 11# lead cmt and 240 sks (56bbl) 14.8# tail cmt. Displace with 191 bbls mud. Bump plug to 900#. app 100 bbls cmt to sfc. Cmt holding on annulus. Run 120' 1" and do 50sk topout
18:00	4.50	22:30	13	WAIT ON CEMENT	Wait on cmt
22:30	4.50	03:00	14	NIPPLE UP B.O.P	Cut casing and weld on csg head.
03:00	3.00	06:00	14	NIPPLE UP B.O.P	N/U BOP



Bill Barrett Corporation

5H-1-46 UB BTR 12/8/2012 06:00 - 12/9/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	21	Wait on tester	Wait on tester
09:00	6.00	15:00	15	TEST B.O.P	Test BOP as follows; Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and csg to 1500# and power choke to 500# all tested good.
15:00	0.50	15:30	21		Install wear bushing
15:30	2.50	18:00	20	DIRECTIONAL WORK	P/U BHA for 8 3/4" hole section. Orient dir tools.
18:00	2.50	20:30	6	TRIPS	TIH
20:30	1.50	22:00	2	DRILL ACTUAL	Drill out float equipment and 20' new hole.
22:00	0.50	22:30	21	FIT	Spot FIT mud. Do FIT to 10.5 EMW. (265psi) Bled to 200# in 10 min.
22:30	0.50	23:00	7	LUBRICATE RIG	Rig service
23:00	7.00	06:00	2	DRILL ACTUAL	Drill&slide 2544-3188'. 644' in 7 hrs 92 fph. Survey @ 2914 8.56* inc 321.47 azi. MW 8.7#/gal 35 vis

5H-1-46 UB BTR 12/9/2012 06:00 - 12/10/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill & slide 3138-3798 660' in 10 hrs 66 fph, Survey @ 3717 12.3* inc, 333.98* az. MW 8.8#/gal 35 vis
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service, function BOP
16:30	12.50	05:00	2	DRILL ACTUAL	Drill/slide 3798-4655'. 857' in 12.5 hrs, 68.5 fph. Survey @ 4523' 9.06*inc, 319.38* az. MW 8.8#/gal 50 vis.
05:00	0.50	05:30	7	LUBRICATE RIG	Rig service
05:30	0.50	06:00	2	DRILL ACTUAL	Drig 4655-4700'

5H-1-46 UB BTR 12/10/2012 06:00 - 12/11/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	Drill/slide 4700-5317'. 617' in 11 hrs 56 fph Survey @ 5283'. 8.48* inc 292.23* az. MW 8.7#/gal 35 vis. 3.5 #/bbl dap
17:00	0.50	17:30	7	LUBRICATE RIG	Rig service, function test pipe rams
17:30	6.50	00:00	2	DRILL ACTUAL	Drill/slide 5317-5507'. 190' in 6.5 hrs 29 fph. Survey @ 5473' 8.47* inc 306.23 az
00:00	0.50	00:30	7	LUBRICATE RIG	Rig service
00:30	5.50	06:00	2	DRILL ACTUAL	Drill/slide 5507-5744'. 237' in 5.5 hrs 43 fph Survey @ 5568 6.79* inc 312.03 az MW 8.8#/gal 36 vis 3.5 #/bbl DAP

5H-1-46 UB BTR 12/11/2012 06:00 - 12/12/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drig 5744-6172'. 428' in 11.5 hrs 37 fph. Survey@ 6043 1.56*inc 279.77 az MW9.1#/gal 35 vis 3.5 #/bbl DAP
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service Function BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 6172-6409'. 237' in 11.5 hrs 20 fph Survey @ 6281 2.38* inc 334.55 az MW9.1#/gal 36 vis 3.55#/bbl DAP
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service

5H-1-46 UB BTR 12/12/2012 06:00 - 12/13/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Drill/slide 6409-6500' Survey @ 6495' 4.62* inc 347.8 az
08:00	2.00	10:00	5	COND MUD & CIRC	Pump sweep. Circulate clean Pump dryjob.
10:00	5.00	15:00	6	TRIPS	TOH, Trip was smooth pulling off bottom @ 225K



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	3.50	18:30	20	DIRECTIONAL WORK	Reconfigure BHA for curve. Function test blind rams
18:30	5.50	00:00	6	TRIPS	TIH filling pipe @ 3400'.
00:00	4.00	04:00	2	DRILL ACTUAL	Drill slide 6500-6566'. Survey @ 6495' 4.62* inc 347.8 az. MW 9.1#/gal 38 vis 3.5 #/bbl DAP
04:00	0.50	04:30	7	LUBRICATE RIG	Rig service
04:30	1.50	06:00	2	DRILL ACTUAL	Drill/slide 6566-6629

5H-1-46 UB BTR 12/13/2012 06:00 - 12/14/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 6629-6882'. Survey 6811 30.9* inc 278.04 az MW9.2#/gal 39 vis 3.5#/bbl DAP
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 6882-7199'. Survey @ 7064 51.5* inc 271.19* az MW9.2#/gal 39 vis 3.5#/bbl DAP.

5H-1-46 UB BTR 12/14/2012 06:00 - 12/15/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill/slide 7199-7420'. 221' in 11.5 hrs 19.2 fph. Survey @7379 86.53* inc 272.35* az MW9.2#/gal 40 vis 3.5#/bbl DAP 10% LCM
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	5.50	23:30	8	REPAIR RIG	Rig broke down. Electrical issues with top drive
23:30	1.50	01:00	2	DRILL ACTUAL	Drill/slide 7430-7450'. Final survey 94.58* inc 272.15* az. Landed 1.7' above plan and 17.79' right of plan Vertical sec 1057.37'. MW9.2#/gal 40 vis 3.5#/bbl DAP 10% LCM
01:00	1.50	02:30	5	COND MUD & CIRC	Pump sweeps to clean hole. Watch shakers till Sweeps back and mud is clean.
02:30	3.00	05:30	6	TRIPS	TOH reaming curve pulling 75K over. Pump dryjop at top of curve..

5H-1-46 UB BTR 12/15/2012 06:00 - 12/16/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	TOH for reaming assembly
11:00	1.00	12:00	20	DIRECTIONAL WORK	Lay down dir equipment
12:00	1.00	13:00	6	TRIPS	Pickup reaming assembly. (bullnosed hole opener, bladed reamer 1jt drillpipe and bladed reamer.)
13:00	5.00	18:00	6	TRIPS	TIH filling pipe every 30 stds.
18:00	2.50	20:30	3	REAMING	Wash and ream thru curve pumping frequent Barazan sweeps.
20:30	2.00	22:30	5	COND MUD & CIRC	Circulate and work pipe pump sweep.
22:30	4.00	02:30	6	TRIPS	Wiper trip to 6500'.
02:30	1.50	04:00	5	COND MUD & CIRC	Circulate and work pipe. Pump sweep.
04:00	2.00	06:00	6	TRIPS	TOH LDDP.

5H-1-46 UB BTR 12/16/2012 06:00 - 12/17/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	6	TRIPS	LDDP and reaming assembly.
16:00	0.50	16:30	21	Pull wear bushing	Pull wear bushing
16:30	5.50	22:00	12	RUN CASING & CEMENT	HSM. Rig up csg crew. Pickup 7" 26# P110 csg. With 2 jt shoe track. Run 80 jts filling every 40 jts.
22:00	8.00	06:00	5	COND MUD & CIRC	No returns @ 80 jts in. Mix and pump LCM lost 450 bbls. regained returns and well flowing. Close in and Circulate 9.3# thru choke. Still flowing Shut in pressure 125#. Calculated 10# KMW. Mix and circulate 10#. Well still flowing SIP 60#.



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5H-1-46 UB BTR 12/17/2012 06:00 - 12/18/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	5	COND MUD & CIRC	Build volume and weight to 10.2. Circulate well.
09:00	9.00	18:00	12	RUN CASING & CEMENT	Put rotating hd rubber on and run casing. Hit ledge @ 7153'.
18:00	4.00	22:00	12	RUN CASING & CEMENT	Work casing to get past ledge. Tried rotating pumping. and not pumping worked four hrs. No success.
22:00	8.00	06:00	12		Rig up HES and cmt as follows. 3 bbl water Pressure test to 5K. 7 bbl water 40 bbl superfush 20 bbl water, 190 bbl (460sks) 11# lead cmt 78 bbl (310sks) 13.5# tail cmt. Displace with 269 bbl water. Final pumping pressure 1000#. Bump plug to 1500# bleasod off and check floats. Had returns throughout job and spacers to surface when done.

5H-1-46 UB BTR 12/18/2012 06:00 - 12/19/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	12	RUN CASING & CEMENT	Rig down HES
06:30	5.00	11:30	14	NIPPLE UP B.O.P	N/D BOP. Set int casing in slips @ 220K. Install bit guide/wearbushing. N/U BOP.
11:30	2.00	13:30	15	TEST B.O.P	Start BOP test.
13:30	5.50	19:00	8	REPAIR RIG	Brake HBU went down. Call out electrician. Down 5.5 hrs. Build mud while waiting.
19:00	2.00	21:00	15	TEST B.O.P	Finish BOP test. Tested casing to 1500#. Also tested pipe rams, Blind rams, safety valves and inside BOP to 5000 high and 250 Low. Also tested annular to 2500.
21:00	2.00	23:00	20	DIRECTIONAL WORK	Pickup Hor. BHA and orient dir tools.
23:00	7.00	06:00	6	TRIPS	Picking up 4" XT39 drillpipe.

5H-1-46 UB BTR 12/19/2012 06:00 - 12/20/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	6	TRIPS	Picking up 4" drillpipe, pushpipe etc.
13:30	7.00	20:30	3	REAMING	Drill float collar, Pressure test csg to 2000#. Held good. Drill out shoe jts and float shoe. Ream into wellbore fell thru cmt @ 7240'.
20:30	4.00	00:30	2	DRILL ACTUAL	Drill to 7475'. Differential pressure spiking and motor stalling. Has been since drilling cmt.
00:30	5.50	06:00	6	TRIPS	TOH to replace motor. Strapping out.

5H-1-46 UB BTR 12/20/2012 06:00 - 12/21/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	6	TRIPS	Finish TOH. Left 26' of MM, Bit in hole. L/D BHA.
07:30	1.50	09:00	21	OPEN	Wait on fisherman.
09:00	1.00	10:00	6	TRIPS	Tih w/20 stds.
10:00	1.50	11:30	21	OPEN	Wait on fisherman.
11:30	1.00	12:30	6	TRIPS	Toh.
12:30	2.00	14:30	19	FISHING	P/U fishing assbly.
14:30	4.50	19:00	6	TRIPS	Tih. Engage fish @ 7450'.
19:00	3.50	22:30	19	FISHING	Tried to get fish off of wall w/cut-lip on grapple. Appeared to have gotten over fish a little, pump pressure came up f/1240 psi to as much as 1650 psi. Never got fish to move, only pulled over PU weight once.
22:30	6.50	05:00	6	TRIPS	Pump dry job, toh.
05:00	1.00	06:00	19	FISHING	Break fishing tools. Cut-lip on grapple bent to inside. No marks inside of grapple, no striations on tools indicating we were beside fish.

5H-1-46 UB BTR 12/21/2012 06:00 - 12/22/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	21	OPEN	Wait on fishing tools.
10:00	1.00	11:00	19	FISHING	P/U grapple(6 1/8" guide, 5" grapple), overshot.
11:00	5.00	16:00	6	TRIPS	Tih.
16:00	8.00	00:00	19	FISHING	Circ and rotate, try to get to fish. Started torquing @ 7301, @ 7316' got hung up. Jarred tool loose. Determined 7316' must be bit on fish. Came up hole 26', tried to find TOF.
00:00	6.00	06:00	6	TRIPS	Toh. Pull into csg, pump pill, toh.

5H-1-46 UB BTR 12/22/2012 06:00 - 12/23/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	Finish toh. L/d fishing tools. Lost guide and grapple off of overshot.
11:00	2.00	13:00	21	OPEN	Wait on mud motors, bit breaker.
13:00	8.00	21:00	6	TRIPS	P/U 6 1/8" insert bit, 2.12" mm, tih. Cut and slipped drill line.
21:00	4.00	01:00	20	DIRECTIONAL WORK	Tih to 7260'. Get tool face, p/u to 7240', lose tool face. Scribe string f/7260' back up to 7240', hole got tight.
01:00	3.00	04:00	21	OPEN	Work tight hole. Could rotate but not pump until 7230'(5 strokes). Hole integrity shaky, kept falling in. Got bit back into csg.
04:00	2.00	06:00	5	COND MUD & CIRC	C&C mud.

5H-1-46 UB BTR 12/23/2012 06:00 - 12/24/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	5	COND MUD & CIRC	Raise mw to 9.7 ppb, lower wl to <8, add 2.5 ppb Soltex.
09:00	8.00	17:00	3	REAMING	Wash & ream f/shoe to 7240'. Sweep hole w/low vis then high vis sweeps. Returns - lots of shale & sand on sweeps. Had trouble getting to shoe and back to bottom @ several depths.
17:00	1.50	18:30	5	COND MUD & CIRC	Pump sweep, circulate hole, pump pill.
18:30	8.00	02:30	6	TRIPS	Blow top drive down, flow check. Toh. L/D mm, monel, pony collar.
02:30	3.50	06:00	6	TRIPS	P/U bit, bit sub, tih.

5H-1-46 UB BTR 12/24/2012 06:00 - 12/25/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	Finish tih.
08:00	5.00	13:00	3	REAMING	W&R 7144' - 7205'. Run low then high vis sweeps, brought back large amounts of sand, pulverized shale, 1/2" shale.
13:00	6.00	19:00	2	DRILL ACTUAL	Hole sidetracked. Will drill to depth we can get toolface and toh. Drill 7205' - 7246'.
19:00	1.50	20:30	5	COND MUD & CIRC	C&C for trip. Work pipe in and out of hole. Pump pill. Blow down top drive, flow check.
20:30	5.00	01:30	6	TRIPS	Toh. Wait on weather 1 hr; truck overturned on Skitzky rd, crews couldn't get to rig.
01:30	3.00	04:30	20	DIRECTIONAL WORK	P/U dir bha.
04:30	1.50	06:00	6	TRIPS	Tih.

5H-1-46 UB BTR 12/25/2012 06:00 - 12/26/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	Finish tih to shoe(7144').
09:30	0.50	10:00	7	LUBRICATE RIG	Rig Service.
10:00	8.00	18:00	3	REAMING	W&R 7144' - 7247'. Ran sweeps, copious amounts of shale returned.
18:00	4.00	22:00	2	DRILL ACTUAL	Slide/Drill sidetrack 7247' - 7280'.
22:00	3.00	01:00	21	OPEN	Working tight hole. Sweep hole, lots of shale, lost 100 bbls mud downhole. Hole tight back up to 8220'. Pull into shoe.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	5.00	06:00	6	TRIPS	Build and pump pill. Blow topdrive down. flow check. Toh f/mm.

5H-1-46 UB BTR 12/26/2012 06:00 - 12/27/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	6	TRIPS	Finish toh. L/D bha.
08:00	0.50	08:30	7	LUBRICATE RIG	Rig Service.
08:30	4.50	13:00	6	TRIPS	P/u bit, Tih to shoe.
13:00	4.00	17:00	5	COND MUD & CIRC	C&C mud, raisw mw to 12.5 ppg.
17:00	11.50	04:30	3	REAMING	W&R 7144' - 7280'. Ran sweeps, produced a lot of shale.
04:30	1.50	06:00	2	DRILL ACTUAL	Drill 7280' - 7332'.

5H-1-46 UB BTR 12/27/2012 06:00 - 12/28/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	3	REAMING	W&R, work tight hole f/7250' - 7332'. Sweep hole, bringing back moderate amount of shale.
08:00	6.00	14:00	2	DRILL ACTUAL	Drill sidetrack 7332' - 7469'. Stopped drilling @ 7469', couldn't get it to drill off. Geologist reported metal slivers and shavings in samples.
14:00	1.00	15:00	6	TRIPS	Trip out to shoe, hole a little ratty.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig Service.
15:30	2.00	17:30	6	TRIPS	Tih to 7469'. Hole tight @ 7183', 7205', 7255'. Rereamed stand.
17:30	1.50	19:00	5	COND MUD & CIRC	Sweep hole, C&C mud.
19:00	6.50	01:30	6	TRIPS	Backream to shoe, pump pill, flow check. Toh. 20' bottom jt dp, bit, bit sub left in hole.
01:30	2.50	04:00	20	DIRECTIONAL WORK	P/u dir bha, orient same.
04:00	2.00	06:00	6	TRIPS	Tih.

5H-1-46 UB BTR 12/28/2012 06:00 - 12/29/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Finish tih to shoe w/sidetrack assbly.
09:00	2.50	11:30	5	COND MUD & CIRC	C&C mud, get 12.5 ppg all the way around.
11:30	3.00	14:30	3	REAMING	W&R 7144' - 7285'. Easy reaming, slowly to 7285'. Check shot @ 7217' - 67.08*, 267.93 az. Strong signal from em tool.
14:30	1.00	15:30	5	COND MUD & CIRC	Send sweep, brought back fair amount of sand, shale.
15:30	3.00	18:30	20	DIRECTIONAL WORK	Establish tool face, Scribe string to top of trough point.
18:30	3.50	22:00	20	DIRECTIONAL WORK	Trough low side 7153' - 7191'.
22:00	8.00	06:00	20	DIRECTIONAL WORK	Time drill 7191' - 7197' @ 6 min/inch.

5H-1-46 UB BTR 12/29/2012 06:00 - 12/30/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	20	DIRECTIONAL WORK	Time drill 7197' - 7203' @ 5 min/inch. Time drill 7203' - 7206' @ 3 min/inch.
15:00	1.50	16:30	2	DRILL ACTUAL	Slide 7206' - 7221'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	1.00	18:00	2	DRILL ACTUAL	Rotate 7221' - 7266'. Rop 85 fph w/no wob - not sidetracked. Samples still black shale. Check shot @ 7201' - 67.81*.
18:00	5.50	23:30	20	DIRECTIONAL WORK	Try to establish tool face to retry troughing. Can't talk to tool.
23:30	1.00	00:30	5	COND MUD & CIRC	Sweep hole, C&C mud f/toh.
00:30	5.50	06:00	6	TRIPS	Backream to shoe. Pump dry job, flow check. Toh.



5H-1-46 UB BTR 12/30/2012 06:00 - 12/31/2012 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	Finish toh.
08:30	3.50	12:00	21	OPEN	Tih to 1200', cut and slip drill line while waiting on 2.12* mm.
12:00	5.00	17:00	6	TRIPS	P/U bha, tih to shoe.
17:00	2.00	19:00	3	REAMING	W&R to 7285'.
19:00	10.00	05:00	20	DIRECTIONAL WORK	Get tool face, scribe string back up to top of trough @ 7190'. Trough lowside f/7190' - 7225'.
05:00	1.00	06:00	20	DIRECTIONAL WORK	Time drill 7225' - 7226' @ 6 min/inch.

5H-1-46 UB BTR 12/31/2012 06:00 - 1/1/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.50	21:30	20	DIRECTIONAL WORK	Time drill 7226' - 7231' @ 6 min/inch. Time drill 7231' - 7237' @ 5 min/inch.
21:30	0.50	22:00	7	LUBRICATE RIG	Rig Service.
22:00	8.00	06:00	20	DIRECTIONAL WORK	Time drill 7237' - 7240' @ 4 min/inch. Time drill 7240' - 7260' @ 3 min/inch. BOP drill both tours.

5H-1-46 UB BTR 1/1/2013 06:00 - 1/2/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Slide 7260' - 7300'. Angle dropping, hole sidetracked @ ~ 130R.
11:30	1.50	13:00	5	COND MUD & CIRC	C&C while wait on orders.
13:00	17.00	06:00	2	DRILL ACTUAL	Slide/rotate 7300' - 7455'.

5H-1-46 UB BTR 1/2/2013 06:00 - 1/3/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	2	DRILL ACTUAL	Slide/rotate 7455' - 7478'.
09:00	2.00	11:00	5	COND MUD & CIRC	C&C, sweep hole f/trip.
11:00	8.00	19:00	6	TRIPS	Toh to start of ST, run in and out of sidetrack. Toh.
19:00	5.00	00:00	20	DIRECTIONAL WORK	BHA. X/O bit, Mwd, change batteries, antenna sub.
00:00	5.50	05:30	6	TRIPS	Tih to shoe.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

5H-1-46 UB BTR 1/3/2013 06:00 - 1/4/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	6	TRIPS	Tih to top of ST, get tool face, attempt to find ST.
14:00	16.00	06:00	20	DIRECTIONAL WORK	Surveys very similar to 7300'. Then azimuth changes from previous sidetrack of 280* to 275*. Has been drilling like new hole. Current survey @ 7376 67.03 inc 274.49 az. MW 12.5#/gal 58 vis PH 9.5 Bit depth @ report time 7444'.

5H-1-46 UB BTR 1/4/2013 06:00 - 1/5/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	20	DIRECTIONAL WORK	Continue sidetracking.
08:30	11.50	20:00	2	DRILL ACTUAL	Drig curve 7478-7580'. Survey @ 7597 90.74* inc 271.5* az increased MW to 12.7#/gal 54 vis 4 wl
20:00	0.50	20:30	7	LUBRICATE RIG	Rig service, Function test BOP



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
20:30	7.50	04:00	2	DRILL ACTUAL	Finish curve 7597-7670'. Final survey 98.91* inc 272.00 az MW 12.7#/gal 54vis 4 WL.
04:00	1.50	05:30	5	COND MUD & CIRC	Circulate clean, Pump 3 sweeps while working pipe. Shakers clean after sweeps.
05:30	0.50	06:00	6	TRIPS	Start TOH

5H-1-46 UB BTR 1/5/2013 06:00 - 1/6/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	TOH, pulled thru curve smoothly. No pumps or backreaming. L/D curve assembly.
14:00	4.00	18:00	15	TEST B.O.P	30 day BOP test due. Test BOP as follows; Test BOP, tested upper & lower Kelly valves, safety valve, inside BOP, Pipe rams, blind rams, HCR valve, kill line valves, choke line valves and manifold to 5k high and 250# Low Test annular to 2500 and power choke to 500# all tested good.
18:00	3.00	21:00	20	DIRECTIONAL WORK	Pickup dir tools. Orient
21:00	7.00	04:00	6	TRIPS	TIH, filling every 30 stds.
04:00	2.00	06:00	20	DIRECTIONAL WORK	Looking for sidetrack. Got in sidetrack. Start taking and matching surveys from when drlg.

5H-1-46 UB BTR 1/6/2013 06:00 - 1/7/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	3	REAMING	Wash and ream to bottom. Pump sweeps to clean hole.
15:00	1.00	16:00	2	DRILL ACTUAL	Drig 7670-7702'.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service, Function test BOP.
16:30	13.00	05:30	2	DRILL ACTUAL	Drilg 7702-8112'. Survey @ 8014' 100.89* inc 274.26 az. MW 12.8#/gal 59 vis 4 WL
05:30	0.50	06:00	7	LUBRICATE RIG	Rig service, function test BOP

5H-1-46 UB BTR 1/7/2013 06:00 - 1/8/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	2	DRILL ACTUAL	Drill/slide 8112-8259'. Survey @ 8251' 100.51* inc 274.3* az 4.7' above line and 9.4' north. MW 12.8#/gal 58 vis 4 WL.
11:00	0.50	11:30	7	LUBRICATE RIG	Rig service. Function test BOP
11:30	6.50	18:00	2	DRILL ACTUAL	Drill/slide 8259-8397'. Survey @ 8394' 100.37* inc 275.29* az MW 12.8#/gal 58 vis 4 WL.
18:00	5.00	23:00	5	COND MUD & CIRC	Lost returns @ 8397'. Drop pump rate. Mix and pump LCM. Lost app 400 bbls. Recover returns. Still seeping 20 bbls/hr
23:00	7.00	06:00	2	DRILL ACTUAL	Drill/slide 8397-8460'. Drilling with 20 bbl/hr seepage. Running 15-20% LCM. Survey @ 8394' 100.37* inc 275.29* az MW 12.7#/gal 60 vis 4.5 WL.

5H-1-46 UB BTR 1/8/2013 06:00 - 1/9/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	Drill/slide 8460-8649'. Survey @ 8630' 93.29* inc 270.2 az MW 12.6#/gal 55 vis 5 WL
15:00	0.50	15:30	7	LUBRICATE RIG	Rig service, BOP drill 45 sec
15:30	14.50	06:00	2	DRILL ACTUAL	Drill/slide 8649-8933' Survey @ 8804' 92.25* inc 270.45 az MW 12.6#/gal 57 vis 4 WL BOP drill 50 sec

5H-1-46 UB BTR 1/9/2013 06:00 - 1/10/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	20	DIRECTIONAL WORK	Dir work, communication issues with MWD
08:00	3.00	11:00	2	DRILL ACTUAL	Drill/slide 8933-9028'. Survey @ 9009' 91.75* inc 271 az 12.6#/gal 55 vis 4 WL.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	1.50	12:30	20	DIRECTIONAL WORK	Dir work, communication issues with MWD
12:30	17.00	05:30	2	DRILL ACTUAL	Drill/slide 9028-9407'. Survey @ 9293' 93.6* inc 269.56 az MW 12.6#/gal 56 vis 4 WL
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. FUnction test BOP.

5H-1-46 UB BTR 1/10/2013 06:00 - 1/11/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	23.50	05:30	2	DRILL ACTUAL	Drill/slide 9407-9975'. 568' for day Survey @ 9861'. 91.21 inc 271.38 az. MW 12.6 #/gal 55 vis 4.8 WL.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service, function test BOP

5H-1-46 UB BTR 1/11/2013 06:00 - 1/12/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	7	LUBRICATE RIG	Rig service, Function test BOP
06:30	23.50	06:00	2	DRILL ACTUAL	Drill/slide 9975-10386'. 411' for day. Survey @ 10288' 90.1* inc 269.71* az. MW 12.6#/gal 57 vis 4.6 WL. Gamma 10

5H-1-46 UB BTR 1/12/2013 06:00 - 1/13/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Drig 10386-10449'. Survey 10383', 91.81* inc 272.03* az, MW 12.6#/gal 55 vis 5 WL. MWD bat dead.
10:00	2.50	12:30	5	COND MUD & CIRC	Pump sweeps and Work pipe till shakers clean.
12:30	5.00	17:30	6	TRIPS	TOH. Would not pull without working tight spots @ 10198-9398', 8186-8085', 7698-7477'.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP
18:00	4.00	22:00	6	TRIPS	Pump slug, finish TOH
22:00	3.50	01:30	20	DIRECTIONAL WORK	Lay down MWD, Bit & motor. Pickup fresh Bit, MWD and motor. Orient same.
01:30	4.50	06:00	6	TRIPS	Lay down MWD, Bit & motor. Pickup fresh Bit, MWD and motor. Orient same. TIH. Fill and circulate @ 3900', 5900'.

5H-1-46 UB BTR 1/13/2013 06:00 - 1/14/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	TIH, P/U 9 4 3/4" collars, put on top of HWDP. Went into sidetrack easily.
11:00	15.50	02:30	3	REAMING	Wash & ream to bottom. Work tight spots @ 7800-51, 8219-50, Ream to bottom. rerun gamma on last stand.
02:30	3.50	06:00	2	DRILL ACTUAL	Resume drig 10499-10504'. Losing mud app 50 bbl treating with sawdust cedar fiber etc. MW 12.6#/gal 53 vis 5 WL Survey @ 10422 91.44* inc 271.63* az.

5H-1-46 UB BTR 1/14/2013 06:00 - 1/15/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	drill/slide 10504-10669'. Survey @ 10659' 92.15* inc 269.94* az MW 12.6 #/gal 55 vis 4.6 WL 3% lube.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service, function test BOP.
15:00	1.00	16:00	8	REPAIR RIG	Replace liner on pump # 2. Pump #1 discharge frozen. Thaw and put on line.
16:00	11.00	03:00	2	DRILL ACTUAL	Drill/slide 10669-10915'. Survey @ 10849' 94.04* inc 268.19* az MW 12.6#/gal 57 vis 4.8 WL 3.5% lube.
03:00	0.50	03:30	7	LUBRICATE RIG	Rig Service
03:30	2.50	06:00	2	DRILL ACTUAL	Drill slide 10915-10978'. survey @ 10896', 93.49*inc 268.03 az MW 12.6#/gal 57 vis, 4.6 wl 3.5% lube.



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5H-1-46 UB BTR 1/15/2013 06:00 - 1/16/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	9.50	15:30	2	DRILL ACTUAL	Drill/slide 10978-11199'. Survey @ 11133' 92.66* inc 267.18 av MW 12.6#/gal 55 vis 4.6 WL 3.4% lube. Rotating out.	
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service, Function test BOP	
16:00	6.00	22:00	2	DRILL ACTUAL	Drig 11199-11380'. Projection to bit 92.15* az 266.81* inc. TVD 6833' MW 12.7 #/gal 63 vis 4.6 WL 3.5% lube	
22:00	2.00	00:00	5	COND MUD & CIRC	Pump sweeps and work pipe @ 95 rpm till shakers clean.	
00:00	0.50	00:30	7	LUBRICATE RIG	Rig service, (ST-80)	
00:30	5.50	06:00	6	TRIPS	Back ream out of lateral section. DO flow check at shoe. Pump dryjob.	

5H-1-46 UB BTR 1/16/2013 06:00 - 1/17/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	7.50	13:30	6	TRIPS	TOH, Laydown dir equipment.	
13:30	7.50	21:00	6	TRIPS	P/U bull nosed hole opener, 2 jts drillpipe, string reamer, 1 jt HWDP and String reamer. TIH to 6200'. Fill pipe and break circulation	
21:00	1.00	22:00	9	CUT OFF DRILL LINE	Slip & cut drig line.	
22:00	1.00	23:00	6	TRIPS	TIH to 7144'.	
23:00	7.00	06:00	3	REAMING	Break circulation. Set rotary @ 10 rpm and pump @ 60 gpm. Work reaming assembly into sidetrack. Ream to 8844'. MW 12.6#/gal 54 vis 4.4 WL 3% lube.	

5H-1-46 UB BTR 1/17/2013 06:00 - 1/18/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	15.50	21:30	3	REAMING	Ream hole 8844' - 11380'. Re-reamed tight spots and severe doglegs.	
21:30	1.50	23:00	5	COND MUD & CIRC	Sweep hole, circ clean.	
23:00	3.50	02:30	21	OPEN	HSM. R/U HES, ran fluid caliper log. Pumped 475 bbl to get flag back, 98 bbls over gauged hole. R/D HES.	
02:30	3.50	06:00	3	REAMING	Backream f/11380' - 9000'. Hole in good shape, constant, even drag @ 25-30k.	

5H-1-46 UB BTR 1/18/2013 06:00 - 1/19/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	3.00	09:00	3	REAMING	Finish backreaming to shoe - pulled last 2 stands pump only. Hole looks good to run casing.	
09:00	2.00	11:00	5	COND MUD & CIRC	Drop drift, pump slug. Blow top drive down.	
11:00	5.00	16:00	6	TRIPS	LDDP. Keep HWDP and Drill Collars in derrick.	
16:00	5.00	21:00	21	OPEN	Circulate @ 2665' while waiting on HES RSI tool to come from Casper, Wyo. HES tool hand on loc @ 19:00.	
21:00	3.00	00:00	6	TRIPS	Finish LDDP. L/D reamers, hole opener.	
00:00	6.00	06:00	12	RUN CASING & CEMENT	HSM. R/U casers. RSI tool arrived @ 01:00. Run 4 1/2", 11.6#, P-110, LT&C csg as follows: Float shoe, 2 jts csg, float collar, landing collar, 1 jt csg, RSI tool, casing(72 of 118 jts by report time).	

5H-1-46 UB BTR 1/19/2013 06:00 - 1/20/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	3.00	09:00	12	RUN CASING & CEMENT	Finish picking up liner. P/U tieback sleeve, running tool. R/D casers.	
09:00	4.00	13:00	12	RUN CASING & CEMENT	Run (40) 4" HWDP, (9) 4 3/4" Drill Collars, 4" DP to shoe. SLM, drift pipe.	
13:00	2.00	15:00	5	COND MUD & CIRC	Install rot element. Circ bottoms up.	
15:00	6.00	21:00	12	RUN CASING & CEMENT	Run 2 stands dp, try to get into sidetrack. Tried rotate/no rotate, pump/no pump. Seemed like it fell in @ 7225', @ 7241' stopped dead(several times). After that, couldn't get past 7221'.	



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
21:00	1.00	22:00	5	COND MUD & CIRC	Pull into shoe, circ, mix and pump dry job.
22:00	2.00	00:00	6	TRIPS	Toh w/dp, hwdp, dc's.
00:00	6.00	06:00	12	RUN CASING & CEMENT	HSM. R/U casers. L/D liner.

5H-1-46 UB BTR 1/20/2013 06:00 - 1/21/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	12	RUN CASING & CEMENT	Finish l/d liner. R/D casers. Liner inspected, high rate of pin and coupling damage - will swap out.
10:00	12.00	22:00	6	TRIPS	P/U bullnose hole opener, reamer, tih.
22:00	1.00	23:00	5	COND MUD & CIRC	Fill pipe, circ BU.
23:00	7.00	06:00	3	REAMING	W&R @ 10 rpm, 60 strokes. Seemed like it fell into sidetrack, W&R to 7480', stopped solid. Suspect we are in old hole, going to pull back up to 7225' and try to get into sidetrack.

5H-1-46 UB BTR 1/21/2013 06:00 - 1/22/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	3	REAMING	W&R w/60 strokes, 10 rpm f/7225' - 7480'. Still in old hole.
13:00	1.00	14:00	5	COND MUD & CIRC	Pump sweep.
14:00	6.00	20:00	6	TRIPS	Backream to shoe, Pump dry job, toh.
20:00	0.50	20:30	7	LUBRICATE RIG	Rig Service. Check com.
20:30	7.00	03:30	6	TRIPS	P/U insert bit, 1.5* mm, dir tools. Tih.
03:30	2.50	06:00	3	REAMING	Clean up trough, try to get back into sidetrack.

5H-1-46 UB BTR 1/22/2013 06:00 - 1/23/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	20	DIRECTIONAL WORK	Worked dir assbly into sidetrack @ 7425'. Washed to 7480', stopped. Determined to be in wrong sidetrack. pulled back up to 7200', work assbly into sidetrack, stopped @ 7480' again.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig Service.
17:30	12.50	06:00	20	DIRECTIONAL WORK	Pull back to shoe, try to get back in correct sidetrack. Had indications @ 7430' it was started in, flipped out. Working that area now.

5H-1-46 UB BTR 1/23/2013 06:00 - 1/24/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	20	DIRECTIONAL WORK	Work to get into sidetrack. Fell into correct sidetrack @ 7220' - 7230'.
11:00	7.00	18:00	3	REAMING	W&R to 11380'.
18:00	3.00	21:00	5	COND MUD & CIRC	C&C mud. Pump sweeps. Shakers clean.
21:00	9.00	06:00	6	TRIPS	Toh. Pull out of sidetrack slowly. Get into csg, pump pill, toh. Bit, Bit box, rotor missing f/mm.

5H-1-46 UB BTR 1/24/2013 06:00 - 1/25/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	17.00	23:00	12	RUN CASING & CEMENT	Hsm. R/U casers. Run 4 1/2", 11.6#, P-110, LT&C liner as follows: FS, 2 jts csg, FC, LC, 1 jt csg, RSI, 109 jts csg, X/O, Tie-back receptacle, Running tool. R/D casers, Tih w/40 jts HWDP, 9 DCs, 4" DP to 11033'.

5H-1-46 UB BTR 1/25/2013 06:00 - 1/26/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	12	RUN CASING & CEMENT	Run liner to 11044'. Progress very slow, cement here.
06:30	2.00	08:30	5	COND MUD & CIRC	C&C mud. HSM w/HES, Nabors for cement job. Blow down top drive.
08:30	9.00	17:30	12	RUN CASING & CEMENT	Cement well as follows: Press test lines to 9000 psi. Pump 40 bbl Tuned Spacer III @ 12.7 ppg, 7.02 yld, 42.77 gps h2o @ 4 bpm, last 5 bbls pump ed w/foamer. Mix and pump 410 sx Elastiseal VI lead cmt @ 14.2 ppg, 1.99 yld, foam quality 2.17, foam yield 9.09%, foam density 13 ppg, 9.33 gps h2o. 27372 scf nitrogen pumped. Pump cavitating, switched pumps & slowed rate to 2 bpm. Mix and pump 50 sx Elasticem VI tail cmt @ 14.3 ppg, 1.99 yld, 9.33 gps h2o. Drop wiper dart, wash up to pit. Pump 134 bbls h2o w/clayweb and aldacide displacement. Land plug w/ 2400 psi, bump to 3100 psi. Bled back 2 bbls, floats held. Drop ball, rupture disk @ 5800 psi, set liner w/7208 psi @ 6028'. Unstung f/liner hanger, circ off top of liner - 100 bbls cmt, 195 bbls mud to surface. Test liner top to 1500 psi f/10 min. Displace mud w/kcl water. R/D HES.
17:30	2.50	20:00	21	OPEN	Flush stack, blow down mud lines, top drive.
20:00	0.50	20:30	7	LUBRICATE RIG	Rig service.
20:30	7.50	04:00	6	TRIPS	LDDP. L/D running tool, bha.
04:00	2.00	06:00	6	TRIPS	Tih 55 stds.

5H-1-46 UB BTR 1/26/2013 06:00 - 1/27/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	9	CUT OFF DRILL LINE	Cut and slip drill line.
07:00	4.00	11:00	6	TRIPS	Lddp.
11:00	2.00	13:00	14	NIPPLE UP B.O.P	Ndbope.
13:00	2.00	15:00	21	OPEN	Remove weldolet, install night cap.
15:00	5.00	20:00	21	OPEN	Clean pits. Rig released @ 20:00.

5H-1-46 UB BTR 2/1/2013 06:00 - 2/2/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	IWHD	Install Wellhead	HSM. CHECK PRESSURE. ND NIGH TCAP. NU 7" 10K TBG HEAD. PRES TEST VOID. GOO. NU NIGHT CAP.

5H-1-46 UB BTR 2/2/2013 06:00 - 2/3/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU SLB. RIH W/ 3.63" GR/JB. THRU LINER TOP AT 6026' TO START TAKING WT AT 6526' (6558' 9.34" INCL, 9.34" DLS). POOH. RIH W/ CBL/CCL/GR/TEMP. DID NOT RUN WITH PRESSURE. LOG SHOWED CMT QUALITY OF --- FAIR 6526'-6026' IN LINER. GOOD 6026'-5400', FAIR 5400'-5200', GOOD 5200'-3950', BAD 3950'-3880', FAIR 3880'-3800', BAD 3800'-1660', TOC 1660'. MAX TEMP 165°. RD AND MOVE OFF.

5H-1-46 UB BTR 2/3/2013 06:00 - 2/4/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/4/2013 06:00 - 2/5/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/5/2013 06:00 - 2/6/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/6/2013 06:00 - 2/7/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/7/2013 06:00 - 2/8/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/8/2013 06:00 - 2/9/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/9/2013 06:00 - 2/10/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/10/2013 06:00 - 2/11/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/11/2013 06:00 - 2/12/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/12/2013 06:00 - 2/13/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/13/2013 06:00 - 2/14/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/14/2013 06:00 - 2/15/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-51215	UT	Duchesne	Black Tail Ridge	PRODUCING	11,380.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION



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5H-1-46 UB BTR 2/15/2013 06:00 - 2/16/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

5H-1-46 UB BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	GOP	General Operations	WAITING ON RIG
09:30	6.50	16:00	SRIG	Rig Up/Down	FIX DIRT AROUND WELLHEAD. SPOT AND RUSU. ND NIGHT CAP. NU 7" 55K X 7" 10K SPOOL, 7" 5K BOP. RU FLOOR. SPOT CATWALK AND RACKS. WAIT ON CSG. UNLOAD 167-JTS 4-1/2" 11.6# P-110 CSG. MEAS CSG. SECURE WELL. SDFN
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE FOR NIGHT.

5H-1-46 UB BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL.
07:00	3.50	10:30	DTIM	Downtime	WAITING ON WEATHERFORD.
10:30	0.50	11:00	GOP	General Operations	RU WEATHERFORD CSG. HSM
11:00	2.00	13:00	RUTB	Run Tubing	MU HES SEAL ASSY. CROSS THREAD 2-JTS. HAVE BAD CSG. LEARNED THAT TRUCKS LOST LOAD ON PAVEMENT. LD CSG AND SEAL ASSY. RD WEATHERFORD CSG CREW.
13:00	3.00	16:00	PULT	Pull Tubing	DECIDED TO LD CSG. SEND TO TOWN. WAIT ON TRUCKS. LOAD OUT CSG. SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

5H-1-46 UB BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. WAITING ON 4-1/2" CSG TO COME IN.

5H-1-46 UB BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	GOP	General Operations	LOAD 172 JTS 4-1/2" CSG ON PIPE RACKS & TALLY. R/U WEATHERFORD CSG CREW.
09:00	3.00	12:00	RUTB	Run Tubing	P/U HALLIBURTON PBR SEAL ASSEMBLY. RIH TO TOP OF TIEBACK RECEPTACLE @ 6027' P/U 4-1/2", 11.6#, P-110 CSG. TORQUE TO 3020#.
12:00	1.00	13:00	GOP	General Operations	CIRC WELL CLEAN W/ 2% KCL.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	1.50	14:30			STING IN & SPACE OUT. LAND CSG IN 20K COMPRESSION. LOCK IN HANGER. PRESSURE TEST ANNULUS TO 2000 PSI FOR 15 MIN. HELD GOOD. R/D WEATHERFORD. CSG DETAIL KB 22.00 HANGER .75 20K COMPRESSION -3.00 4-1/2" PUP JT 3.00 4-1/2" PUP JT 2.00 170-JTS 4-1/2" CSG 6001.50 PBR 13.25
14:30	2.00	16:30	IWHD	Install Wellhead	R/D FLOOR & EQUIPMENT. N/D BOP. N/U FRAC TREE.
16:30	1.50	18:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. ROAD RIG TO 12-12D-46. SDFN.
18:00	12.00	06:00	CTRL	Crew Travel	CREW TRAVEL. WELL SECURE.

5H-1-46 UB BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	LOCL	Lock Wellhead & Secure	WAITING TO FINISH 5H-1-46 TW. MOVE HES OVER.
13:00	4.00	17:00	ACID	Acid Wash/Squeeze	HSM. HOOK HES TO CSG. PUT 2000 PSI ON ANNULUS. HOOK UP TO FRAC VAVLES. PRES TEST LINE TO 9300 PSI. OPEN WELL. START PUMPING AT 2 BPM TO OPEN RSI AT 7914 PSI. PMP 6 BBL THEN START ACID. PUMP 2500 GAL 15% HCL. STEP RATE UP, 3.9 BPM AT 5432, 4.0 BPM AT 5000 PSI. 6.5 BPM AT 5724 PSI. DISPLACE ACID WITH 1.6 BBL 2% WHEN RIS PLUGGED AND PRES UP TO 8400 PSI. SHUT DOWN. PRES START COMING DOWN. CAME DOWN TO 6200 PSI. BUMP PUMPS. PRES TO 8000 PSI, SLOW TO FALL. STAGE IN 14 BBLS 2% KCL AS PRES WOULD ALLOW. BLEED OFF TO 0 PSI, NO FLOW. ATTEMPT TO PUMP AGAIN. PRESSURE TO 8400 PSI. SAME RESULTS. BLEED OFF. SHUT WELL IN. RDMO HES.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. WAITING FOR COIL IN AM.

5H-1-46 UB BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	SRIG	Rig Up/Down	MIRU CTI COIL TBG UNIT. FILL COIL. MU STI 3-7/8" MILL, MOTOR, AGITATOR, CIRC SUB, DISCONNECT, BI-DI JAR, CHECK, CONNECTOR. TEST TOOLS.
10:30	9.00	19:30	RUTB	Run Tubing	HSM. PRES TEST STACK TO 4000 PSI. OPEN WELL W/ 900 PSI. START IN HOLE. CIRC 2 BPM AT 30 FPM TO CIRC OUT ACID. CONT RIH. WENT DOWN AND TAG COIL DEPTH 10,905'. WORK COIL. COULD NOT GET BACK DOWN. INCREASE FR AND EZ SLIDE. PULL 500' UPHOLE. RUN DOWN AND TAG AT 10,935' ACTS LIKE RSI SLEEVE. TAG AGAIN. MIX SWEEP AND POOH. PULL UP INTO LUBE. PMP INTO RSI WITH CTS PUMP. UP TO 5 BPM WITH PRES 5800 TO 5000 PSI. PMP 72 BBLS. GOOD. SHUT WELL IN. MOVE OFF AND OVER.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AS C/O 5H-1-46 TW BTR.

5H-1-46 UB BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	SRIG	Rig Up/Down	MIRU HES. HSM.
08:30	1.50	10:00	ACID	Acid Wash/Squeeze	HOOK TO CSG. PRES TEST LINES. PUT 2000 PSI ON ANNULUS AND SHUT IN. HOOK UP TO 4-1/2". PRES TEST LINE TO 9600 PSI. OPEN WELL WITH 833 PSI. PUMP 14 BBL-- 2 BPM AT 3682 PSI, 4 BPM AT 4198 PSI. START ACID. PUMP 2500 GAL 15% HCL-- 4.1 BPM AT 3580 PSI. DISPLACE ACID WITH 169 BBLS 2%-- 4.8 BPM AT 3768 PSI, 6.2 BPM AT 4270 PSI, 7.8 BPM AT 5890 PSI, 9.5 BPM AT 5774 PSI. ACID ON RSI-- 9.5 BPM AT 5352, 9.6 BPM AT 2219 PSI. FINAL 11.2 BPM AT 3625 PSI. SHUT DOWN.
10:00	1.00	11:00	SRIG	Rig Up/Down	RDMO COIL TBG SERVICES.
11:00	1.50	12:30	SRIG	Rig Up/Down	MIRU SLB.



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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	2.00	14:30	WLWK	Wireline	PU WEIGHT BARS AND 4-1/2" DUMMY PLUG. EQUALIZE 1000 PSI AND OPEN WELL. RIH AND CORRELATE TO LINER TOP WITH SLB CBL/CCR/GR LOG DATED 2/2/13. START PUMPING WITH HES AND 2 BPM AT 1300 PSI. INCREASE TO 10 BPM AT 4250 PSI TO GET DUMMY PLUG TO 10,850'. POOH. LD TOOLS.
14:30	3.00	17:30	PFRT	Perforating	PU 3-1/8" PERF GUNS FOR STG 1 (23 GR, .46 EOD, 36" PENT, 4 SPF) AND RIH. CORRELATE TO JTS BELOW LINER 6096+ AND 6141'. START PUMPING DOWN HOLE WITH HES. BEGIN 2 BPM AT 1400 PSI, END AT 10.2 BPM AT 4500 PSI. RUN TO 10,571'. PULL UP AND PERF UTELAND BUTTE FORM 10,584'-10,846'. POOH. SHUT WELL IN. VERIFY ALL GUNS SHOT.
17:30	13.00	06:30	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

5H-1-46 UB BTR 2/24/2013 06:00 - 2/25/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. MOVE IN AND START FILLING FRAC LINE.

5H-1-46 UB BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION. FILLING FRAC LINE. BACKSIDE MANIFOLD IN. RIVER LOAD OUT SET.

5H-1-46 UB BTR 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

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

5H-1-46 UB BTR 2/27/2013 06:00 - 2/28/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Construction Crew Working On Facilities.
15:00	6.50	21:30	SRIG	Rig Up/Down	MIRU HES Frac Fleet And SLB WireLine. Prime Up HP And Chemicals. Had Trouble Priming CL-22. Run QA On Fluids. Fluids Looking Good. Pressure Test To 9300#. Pressured Up 7" Annulus To 1800#.
21:30	0.42	21:55	SMTG	Safety Meeting	Hold Safety Meeting. Talked About Smoking Area, Escape Routes, Emergency Vehicle, Fall Protection, Tight Spots And Red Zone.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
21:55	1.00	22:55	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16 Open Well, 783 Psi. ICP. BrokeDown At 10.1 Bpm And 4,364 Psi.. Pump 3900 Gals. 15% HCL. Get Stabilized Injection Of 35.5 Bpm And 6,400 Psi., Get ISIP, 2,411 Psi.. 0.79 Psi./Ft. F.G.. 11/60 Holes. Stage Into Linear Pad At .50# 100 Mesh, 43.5 Bpm At 6,400 Psi.. On Perfs, 48.2 Bpm At 6,949 Psi., 10,242 Gals. Stage Into XLink Pad At 1.0# 100 Mesh, 51.9 Bpm At 7,386 Psi.. On Perfs, 51.9 Bpm At 7,141 Psi., 19,707 Gals. Stage Into 1.5# 20/40 White Prop, 55.4 Bpm At 6,963 Psi.. On Perfs, 59.0 Bpm At 6,852 Psi., 10,011 Gals. Stage Into 2.0# 20/40 White Prop, 60.4 Bpm At 6,845 Psi.. On Perfs, 60.4 Bpm At 6,748 Psi., 13,029 Gals. Cut Sand In 2#, Saw Sharp Net Increase. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,206 Psi.. 0.92 Psi./Ft. F.G.. WSI And Secured. Total 100 Mesh - 24,240# Total 20/40 White Prop - 44,140# Total Clean - 75,912 Gals.. 1,807 Bbls.. BWTR - 2,110 Bbls. Max. Rate - 60.5 Bpm Avg. Rate - 54.1 Bpm Max. Psi. - 7,493 Psi. Avg. Psi. - 6,925 Psi.</p>
22:55	0.42	23:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
23:20	2.17	01:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-02-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 10,554'. 1,950 Psi. Perforate Stage 2 UteLand Butte Zone, 10,262 - 10,524'. 60 Holes. 1,700 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
01:30	0.42	01:55	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well. Drop Ball, Let Fall 15 Minutes.
01:55	0.91	02:50	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16 Open Well, 1,444 Psi. ICP. BrokeDown At 15.5 Bpm And 3,700 Psi.. Pump 3900 Gals. 15% HCL. Get Stabilized Injection Of 38.8 Bpm And 5,494 Psi., Get ISIP, 1,074 Psi.. 0.60 Psi./Ft. F.G.. 12/60 Holes. Stage Into Linear Pad At .50# 100 Mesh, 57.5 Bpm At 6,486 Psi.. On Perfs, 60.6 Bpm At 6,153 Psi., 9,959 Gals. Stage Into XLink Pad At 1.0# 100 Mesh, 63.0 Bpm At 6,402 Psi.. On Perfs, 64.9 Bpm At 7,059 Psi., 19,711 Gals. Stage Into 1.5# 20/40 White Prop, 65.1 Bpm At 6,960 Psi.. On Perfs, 65.1 Bpm At 6,609 Psi., 10,006 Gals. Stage Into 2.0# 20/40 White Prop, 65.1 Bpm At 6,515 Psi.. On Perfs, 65.1 Bpm At 6,439 Psi., 19,296 Gals. Stage Into 2.5# 20/40 White Prop, 58.0 Bpm At 5,851 Psi.. On Perfs, 58.2 Bpm At 5,903 Psi., 13,669 Gals. Cut Sand On 2.5#, Sharp Increase In Net. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 3,144 Psi.. 0.91 Psi./Ft. F.G.. WSI And Secured. Total 100 Mesh - 24,750# Total 20/40 White Prop - 84,050# Total Clean - 109,608 Gals.. 2,610 Bbls.. BWTR - 2,707 Bbls. Max. Rate - 71.6 Bpm Avg. Rate - 62.1 Bpm Max. Psi. - 7,135 Psi. Avg. Psi. - 6,485 Psi.</p>
02:50	0.33	03:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
03:10	2.33	05:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 02-02-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Pull UpTo Depth, Set CFP At 10,232'. 1,850 Psi. Perforate Stage 3 UteLand Butte Zone, 9,940 - 10,202'. 60 Holes. 1,750 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>



Bill Barrett Corporation

5H-1-46 UB BTR 3/1/2013 06:00 - 3/2/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID FOR STG 7-12

5H-1-46 UB BTR 3/2/2013 06:00 - 3/3/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID FOR STG 7-12

5H-1-46 UB BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON PAD. WAITING ON ACID. MOVE FRAC LINE FORWARD. START FILLING FRAC LINE FOR ACID.

5H-1-46 UB BTR 3/4/2013 06:00 - 3/5/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finish Filling Frac Tanks. Heat Frac Tanks. Basic Loading Acid Per Third Party.

5H-1-46 UB BTR 3/5/2013 06:00 - 3/6/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MIRU Basic Frac Fleet. Rig Up WireLine Load Remaining Acid And Mix

5H-1-46 UB BTR 3/6/2013 06:00 - 3/7/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	GOP	General Operations	HOOK UP LINE TO CSG. HSM. PRES TEST LINES TO PUT 1450 PSI ON ANNULUS.
06:30	0.50	07:00	FRAC	Frac. Job	ACIDIZE STG 6-- 8974'-9236' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 9200 PSI. OPEN WELL AT 07:03 WITH 1040 PSI. PUMPING INTO- 4090 PSI AT 16.0 BPM. PUMP 15,000 GAL 15% GELLED FE ACID. 49.7 BPM AT 6510 PSI. ON PERF- 49.8 BPM AT 6360 PSI. END ACID 50.0 BPM AT 6060 PDI FLUSH WITH 158.5 BBL. 50.0 BPM AT 6040 PSI. ISIP 2616 FG .72 MAX RATE 50.0 BPM MAX PRES 6535 PSI AVE RATE 35.1 BPM AVE PRES 5170 PSI PMP 357 BBLs GELLED FE ACID 198.7 BBLs SLK WTR BTR 555.7 BBLs
07:00	2.75	09:45	PFRT	Perforating	PERF STG #7- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 7 INTO LUBE AND EQUALIZE 2700 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2600#, PMP 99 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8944' WITH 1700 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8652'-8914' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:45	0.50	10:15	FRAC	Frac. Job	ACIDIZE STG 7-- 8652'-8914' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 9000 PSI. OPEN WELL AT 09:40 WITH 1480 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.4 BPM AT 4070 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 50.1 BPM AT 6290 PSI. ON PERF- 50.1 BPM AT 5510 PSI. END ACID 50.1 BPM AT 5390 PSI FLUSH WITH 154.5 BBL. 50.2 BPM AT 5280 PSI. ISIP 2350 PSI FG .70 MAX RATE 50.1 BPM MAX PRES 6457 PSI AVE RATE 31.0 BPM AVE PRES 4362 PSI PMP 357 BBLs GELLED FE ACID 190 BBLs SLK WTR BTR 541 BBLs
10:15	1.75	12:00	PFRT	Perforating	PERF STG #8- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 8 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2550#, PMP 100 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8622' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8330'-8592' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.
12:00	0.50	12:30	FRAC	Frac. Job	ACIDIZE STG 8-- 8330'-8592' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8500 PSI. OPEN WELL AT 12:01 WITH 1590 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.7 BPM AT 4330 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 55.0 BPM AT 6810 PSI. ON PERF- 60.6 BPM AT 6930 PSI. END ACID 58.6 BPM AT 6060 PSI FLUSH WITH 153.1 BBL. 61.6 BPM AT 6300 PSI. ISIP 2370 PSI FG .71 MAX RATE 63.2 BPM MAX PRES 7258 PSI AVE RATE 41.4 BPM AVE PRES 5159 PSI PMP 357 BBLs GELLED FE ACID 241 BBLs SLK WTR BTR 598 BBLs
12:30	1.75	14:15	PFRT	Perforating	PERF STG #9- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 9 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2610#, PMP 78 BBLs) TO DEPTH. PULL UP AND SET CFP AT 8300' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 8008'-8270' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.
14:15	0.50	14:45	FRAC	Frac. Job	ACIDIZE STG 9-- 8008'-8270" IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8700 PSI. OPEN WELL AT 14:08 WITH 1580 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.7 BPM AT 3760 PSI. STAGE TO ACID. PUMP 15,000 GAL 15% GELLED FE ACID. 58.9 BPM AT 6210 PSI. ON PERF- 61.4 BPM AT 6400 PSI. END ACID 61.2 BPM AT 6290 PSI FLUSH WITH 145.5 BBL. 61.8 BPM AT 6180 PSI. ISIP 2500 PSI FG .74 MAX RATE 61.7 BPM MAX PRES 6523 PSI AVE RATE 38.2 BPM AVE PRES 4823 PSI PMP 357 BBLs GELLED FE ACID 227.2 BBLs SLK WTR BTR 584 BBLs
14:45	3.50	18:15	PFRT	Perforating	PERF STG #10- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 9 INTO LUBE AND EQUALIZE 2000 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2340#, PMP 173 BBLs) TO DEPTH. PULL UP TO SET CFP AT 7978'. DID NOT SEE PLUG SET, LINE READING INDICATING NOT SET. POOH AT 100 FPM. STILL HAD PLUG. FOUND LOOSE WIRE FROM SWITCH TO DETONATOR. REPAIR, ADD DIFFERENT SETTING TOOL WITH PLUG. EQUALIZE 1700 PSI. OPEN AND RIH. CORRELATE TO JTS BELOW LINER. PUMP DOWN 2 BPM TO 10 BPM (PRES 2670 PSI, PMP 75 BBLs) TO DEPTH. PULL UP AND SET CFP AT 7978' WITH 1750 PSI. PULL UP AND PERF UTELAND BUTTE FORM 7686'-7948' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DROP BALL. TURN WELL OVER TO BASIC WITH 1700 PSI.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:15	0.50	18:45	FRAC	Frac. Job	ACIDIZE STG 10-- 7686-7948' IN UTELAND BUTTE 60- HOLES IN 15' NET. PRES TEST TO 8500 PSI. OPEN WELL AT 18:11 WITH 1540 PSI. LET BALL FALL 15 MIN. PMP 15 BPM TO SEAT BALL. BREAK DOWN 19.8 BPM AT 3760 PSI. STAGE TO ACID. PUMP 7500 GAL 15% GELLED FE ACID. 47.2 BPM AT 5610 PSI. START OF 60 BIO BALLS FOR DIVERSION. ACID ON PERF- 47.8 BPM AT 5420 PSI. END ACID 61.2 BPM AT 6290 PSI BALLS ON PERFS- PRES CAME UP. SOME BALL ACTION. FLUSH WITH 138 BBL. 47.0 BPM AT 6320 PSI. PRES CAME UP WITH SOME BALL ACTION. TURN OVER TO SLB WITH 2590 PSI. ISIP 2590 PSI FG .81 MAX RATE 47.8 BPM MAX PRES 6495 PSI AVE RATE 36.5 BPM AVE PRES 5030 PSI PMP 357 BBLs GELLED FE ACID 210 BBLs SLK WTR BTR 567 BBLs
18:45	1.75	20:30	PFRT	Perforating	PERF STG 11- PU HES OBSIDEAN 4-1/2" CFP AND GUNS FOR STAGE 11 INTO LUBE AND EQUALIZE 1750 PSI. OPEN WELL AND RIH. CORRELATE TO JTS BELOW LINER A 6097' AND 6141'. PUMP DOWN 2 BPM TO 10 BPM (PRES AT 2610#, PMP 78 BBLs) TO DEPTH. PULL UP AND SET CFP AT 7656' WITH 2000 PSI. PULL UP AND PERF UTELAND BUTTE FORM 7320'-7502' WITH 60 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. DID NOT DROP BALL SO BASIC COULD BLOW OUT LINES. SHUT IN AND SECURE WELL WITH PSI.
20:30	9.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. WINTERIZE WELL HEAD.

5H-1-46 UB BTR 3/7/2013 06:00 - 3/8/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	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	SMTG	Safety Meeting	HOLD SAFETY MEETING W/ ALL CONTRACTORS ON LOCATION ON DAILY OPERATION.
08:00	1.00	09:00	ACID	Acid Wash/Squeeze	R/U BASIC ENERGY. TEST LINES TO 8500 PSI. ACIDIZE STG 11. PERFS F/ 7020' TO 7502'. 45 HOLES. OPEN WELL 1340 PSI. BROKE DOWN @ 19.6 BPM, 3920 PSI. PUMP 1500 GAL ACID 15% HCL. DROP 90 BIO-BALLS. FLUSH W/ 135 BBLs 2% KCL. ISIP- 2300. FG- .74. SHUT WELL IN. TOTAL BBLs- 572. MAX RATE- 50.4. MAX PSI- 7060. AVG RATE- 36.9. AVG PSI- 4688. SHUT WELL IN.
09:00	1.00	10:00	CTUW	W/L Operation	RU SLB WIRELINE. RIH W/ 5.5 CBP & 3-1/8 PJ OMEGA 3104 PERF GUN. PUMP PLUG DOWN & SET PLUG @ 7307'. PERF UTELAND BUTTE STG 12 F/ 7165' TO 7292'. 36 HOLES. 120 PH, 3 TO 6 SPF. R/D SLB.
10:00	1.00	11:00	ACID	Acid Wash/Squeeze	R/U BASIC ENERGY. TEST LINES TO 8500 PSI. ACIDIZE STG 12. PERFS F/ 7165' TO 7292'. 36 HOLES. OPEN WELL 0 PSI. BROKE DOWN @ 19.6 BPM, 3150 PSI. PUMP 1500 GAL ACID 15% HCL. DROP 72 BIO-BALLS. FLUSH W/ 128 BBLs 2% KCL. ISIP- 2550. FG- .78. SHUT WELL IN. TOTAL BBLs- 550. MAX RATE- 50.5. MAX PSI- 8091. AVG RATE- 32.6. AVG PSI- 4530. SHUT WELL IN.
11:00	1.50	12:30	SRIG	Rig Up/Down	R/D BASIC & SLB. MOL.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE.

5H-1-46 UB BTR 3/8/2013 06:00 - 3/9/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	FBCK	Flowback Well	WELL FLOWING TO SALES.



Bill Barrett Corporation

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
20:00	2.25	22:15	SRIG	Rig Up/Down	MOVE COIL STACK OVER FROM UB. NU TO FRAC VALVES. X-OUT MILLING TOOLS. PRES AND FUNCTION TEST TOOLS. PRES TEST LUBE TO 5000 PSI.
22:15	1.50	23:45	RUTB	Run Tubing	RIH W/ 3-7/8" MILL, MOTOR, DUAL AGITATORS, AV SUB, HYD DISCONNECT, BI-DI JARS. AT 200' START CIRC .5 BPM. AT 6500' START CIRC AT 3 BPM.
23:45	2.25	02:00	DOPG	Drill Out Plugs	DRILL OUT PLUGS. CFP #1 AT 7305'. D/O IN 10 MIN. PMP 3.0, RETURN 3.0, WHP 1000 PSI. CFP #2 AT 7656'. D/O IN 25 MIN. PMP 3.0, RETURN 3.25, WHP 700 PSI. CFP #3 AT 7978'. D/O IN 25 MIN. PMP 3.0, RETURN 3.25, WHP 700 PSI. CFP #4 AT 8300'. D/O IN 21 MIN. PMP 3.0, RETURN 3.25, WHP 600 PSI. RIH AND TAG CFP #5 AT 8622'. PMP SWEEP.
02:00	1.00	03:00	TRIP	Tripping	MAKE WIPER TRIP UP TO 6500'. RUN BACK IN TO PLUG #5
03:00	3.00	06:00	DOPG	Drill Out Plugs	CFP #5 AT 8622'. D/O IN 26 MIN. PMP 3.0, RETURN 3.5, WHP 500 PSI. CFP #6 AT 8944'. D/O IN 24 MIN. PMP 3.0, RETURN 3.5, WHP 550 PSI. CFP #7 AT 9266'. D/O IN 30 MIN. PMP 3.0, RETURN 3.25, WHP 550 PSI. (25' SAND UNDER PLUG) CFP #8 AT 9588'. D/O IN 30 MIN. PMP 3.0, RETURN 3.25, WHP 950 PSI.

5H-1-46 UB BTR 3/9/2013 06:00 - 3/10/2013 06:00

API/UWI 43-013-51215	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,380.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.59	07:35	TRIP	Tripping	Tag CFP #9 At 9,910'. Make Wiper Trip, Pull Out To 6,520', RBIH To CFP #9.
07:35	0.83	08:25	DOPG	Drill Out Plugs	Tag CFP #9 At 9,910'. 800#'s, 3.5 Bpm Returns. DrillOut In 50 Min., 800#'s, 3.5 Bpm Returns.
08:25	0.75	09:10	TRIP	Tripping	TIH To Next Plug.
09:10	0.67	09:50	DOPG	Drill Out Plugs	Tag CFP #10 At 10,232'. 900#'s, 3.0 Bpm Returns. DrillOut In 38 Min., 750#'s, 3.5 Bpm Returns.
09:50	0.50	10:20	TRIP	Tripping	TIH To Next Plug
10:20	0.92	11:15	DOPG	Drill Out Plugs	Tag CFP #11 At 10,554'. 900#'s, 3.0 Bpm Returns. DrillOut In 55 Min., 700#'s, 3.25 Bpm Returns
11:15	0.58	11:50	TRIP	Tripping	TIH To RSI.
11:50	0.50	12:20	CLN	Clean Out Hole	Cleaned Out To RSI At 10,876'. 800#'s, 3.5 Bpm Returns. Pump 2 20 Bbl. Sweeps, Circulate For 30 Minutes.
12:20	2.42	14:45	TRIP	Tripping	TOOH With Coil.
14:45	0.50	15:15	GOP	General Operations	PULL INTO LUBE. SHUT WELL IN. BLEED OFF. REMOVE MILLING TOOLS.
15:15	1.25	16:30	GOP	General Operations	SET INJECTOR HEAD BACK ON STACK. BLOW COIL DRY WITH N2.
16:30	1.00	17:30	SRIG	Rig Up/Down	RD CTS COIL UNIT.
17:30	12.49	06:00	FBCK	Flowback Well	OPEN WELL TO FBT AT 17:00 ON 24/64" CHOKE. FP 600 PSI. FLOW 120 BBLS TILL MAKING GAS. TURN OVER TO FBC AND SALES AT 19:00.

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.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626444
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512150000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input 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"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/1/2013	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text" value="Lease"/>	
<input type="checkbox"/> SPUD REPORT Date of Spud:		
<input type="checkbox"/> DRILLING REPORT Report Date:		
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 1420H626444.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 06, 2013		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 5/6/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626444
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.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5H-1-46 BTR UTELAND BUTTE	
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013512150000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2666 FNL 0286 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/17/2017	<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 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 checked="" type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This was SI on 4/18/15 due to low production & low commodity prices has been left SI. On 4/17/16 the well will be SI for 1 year. Current economics don't justify returning the well to production. For this reason BBC is requesting an additional 1 year SI, before a MIT is required, until 4/17/17. The well currently has 0 psi tbg, 50 psi on 7" csg, 0 psi Braden Head. With minimal to 0 Braden Head pressure & 50 psi csg pressure, it is evident that the 7" int. csg has full integrity & all formations are protected. 7" csg is isolated from 2-7/8" tbg with a packer set at 6093'. TOC on 7" csg is at 1660 ft. The well is SI at the wellhead & all surface equipment has been drained & winterized. The well is still on an active lease operator route & is checked frequently for any surface & potential downhole issue. BBC would RTP if economics will justify at a higher commodity price before 4/17/17

Accepted by the Utah Division of Oil, Gas and Mining

Date: March 29, 2016

By: *Dark Ount*

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 3/16/2016

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

Effective Date: 11/1/2016

FORMER OPERATOR:	NEW OPERATOR:
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:

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

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

New Operator Contact information:

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

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

Sincerely,

Bill Barrett Corporation

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

Brady Riley
Permit Analyst

RECEIVED
OCT 21 2016
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

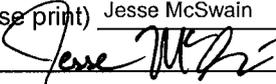
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

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

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
	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"/>	Transfer approved Application for Permit to Drill to new operator
	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

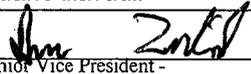
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

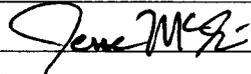
Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

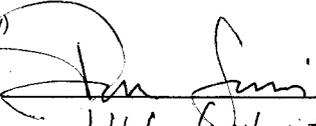
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION	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: UIC Geologist

Approval Date: 11/3/16

Comments:

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

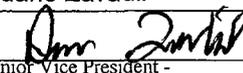
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

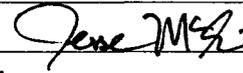
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

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

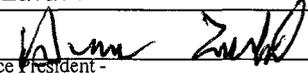
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

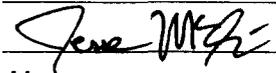
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE	Field or Unit Name CEDAR RIM
	Lease Designation and Number 2OG0005608
QQ, Section, Township, Range: SESE 9 3S 6W	State : UTAH

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadil</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: 
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&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.