

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 16-6-45 BTR
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 dspencer@billbarrettcorp.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 14-20-H62-6296	11. MINERAL 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')		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') UTE		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>		19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	608 FSL 756 FEL	SESE	6	4.0 S	5.0 W	U
Top of Uppermost Producing Zone	608 FSL 756 FEL	SESE	6	4.0 S	5.0 W	U
At Total Depth	608 FSL 756 FEL	SESE	6	4.0 S	5.0 W	U

21. COUNTY DUCHESNE	22. DISTANCE TO NEAREST LEASE LINE (Feet) 608	23. NUMBER OF ACRES IN DRILLING UNIT 160
25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2934	26. PROPOSED DEPTH MD: 8800 TVD: 8800	
27. ELEVATION - GROUND LEVEL 6037	28. BOND NUMBER LPM8874725	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City Culinary Water Dock

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
Surf	14.75	10.75	0 - 2500	45.5	J-55 LT&C	8.8	Halliburton Light , Type Unknown	630	3.16	11.0
							Halliburton Premium , Type Unknown	360	1.36	14.8
Prod	9.875	5.5	0 - 8800	17.0	P-110 LT&C	9.7	Unknown	660	2.31	11.0
							Unknown	750	1.42	13.5

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input 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 type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Elaine Winick	TITLE Sr. Permit Analyst	PHONE 303 293-9100
SIGNATURE	DATE 02/23/2011	EMAIL ewinick@billbarrettcorp.com
API NUMBER ASSIGNED 43013506100000	APPROVAL  Permit Manager	

BILL BARRETT CORPORATION
DRILLING PLAN
01/10/2011

16-6-45 BTR Well Pad

SESE, 608' FSL, 756' FEL, Section 6, T4S, R5W, USB&M (surface hole)

SESE, 608' FSL, 756' FEL, Section 6, T4S, R5W, USB&M (bottom hole)

Duchesne County, UT

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

<u>Formation</u>	<u>Depth – MD</u>
Lower Green River	4800'*
Douglas Creek	5675'
Black Shale	6520'
Castle Peak	6750'
Wasatch	7290'*
TD	8800'

*PROSPECTIVE PAY

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

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2500'	No pressure control required
2500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
14 3/4"	surface	2500'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	surface	TD	5 1/2"	17#	P-110	LT&C	New
NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&C to a depth of 6000', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2000' liner (200' liner lap).							

5. **Cementing Program**

Casing	Cement
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	Lead with approximately 630 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. Tail with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx). Calculated hole volume with 75% excess.
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	Lead with approximately 660 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). Tail with approximately 750 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Planned TOC 2000'.
<p>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft³/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</p> <p>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</p>	

6. **Mud Program**

Interval	Weight	Viscosity	Fluid Loss (API filtrate)	Remarks
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2500' – TD	8.6 – 9.7	42-52	20 cc or less	DAP Polymer Fluid System
<p>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</p>				

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

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.
<p>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</p>	

Bill Barrett Corporation
Drilling Program
16-6-45 BTR
Duchesne County, Utah

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4439 psi* and maximum anticipated surface pressure equals approximately 2503 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

**Maximum surface pressure = A - (0.22 x TD)

9. Auxiliary Equipment

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

10. Location and Type of Water Supply

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

11. Drilling Schedule

Location Construction:	Approximately 8/01/2011
Spud:	Approximately 8/15/2011
Duration:	15 days drilling time
	45 days completion time

PRESSURE CONTROL EQUIPMENT – Schematic Attached

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

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

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

D. Choke Manifold Equipment:

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

E. Accumulator:

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

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

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

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

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

F. Miscellaneous Information:

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

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



Bill Barrett Corporation

LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 1/10/2011

Well Name: 16-6-45 BTR

Surface Hole Data:

Total Depth:	2,500'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

Calculated Data:

Lead Volume:	1947.1	ft ³
Lead Fill:	2,000'	
Tail Volume:	486.8	ft ³
Tail Fill:	500'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	630
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Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	2,000'	

# SK's Tail:	360
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Production Hole Data:

Total Depth:	8,800'
Top of Cement:	2,000'
Top of Tail:	6,020'
OD of Hole:	8.750"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1523.1	ft ³
Lead Fill:	4,020'	
Tail Volume:	1053.4	ft ³
Tail Fill:	2,780'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	660
# SK's Tail:	750

16-6-45 BTR Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (2000' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,000'
	Volume: 346.77 bbl
	Proposed Sacks: 630 sks
Tail Cement - (TD - 2000')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,000'
	Calculated Fill: 500'
	Volume: 86.69 bbl
	Proposed Sacks: 360 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (6020' - 2000')	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,000'
	Calculated Fill: 4,020'
	Volume: 271.26 bbl
	Proposed Sacks: 660 sks
Tail Cement - (8800' - 6020')	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 6,020'
	Calculated Fill: 2,780'
	Volume: 187.61 bbl
	Proposed Sacks: 750 sks

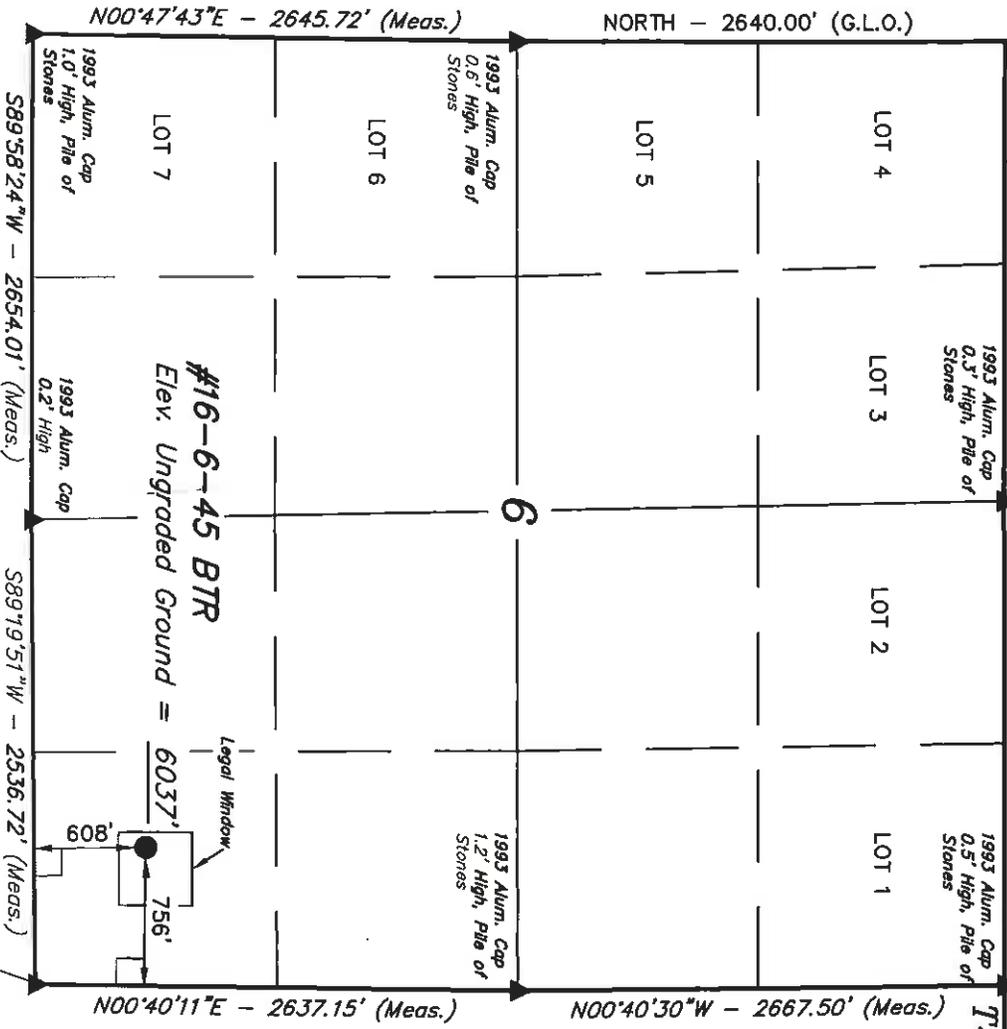
T4S, R5W, U.S.B.&M.

R R
6 5
W W

N89°55'E - 2547.60' (G.L.O.)

S89°41'49"W - 2644.65' (Meas.)

T4S
T3S



LEGEND:

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

(NAD 83)
 LATITUDE = 40°09'23.07" (40.156408)
 LONGITUDE = 110°29'10.54" (110.486261)
 (NAD 27)
 LATITUDE = 40°09'23.22" (40.156450)
 LONGITUDE = 110°29'07.98" (110.485550)

BILL BARRETT CORPORATION

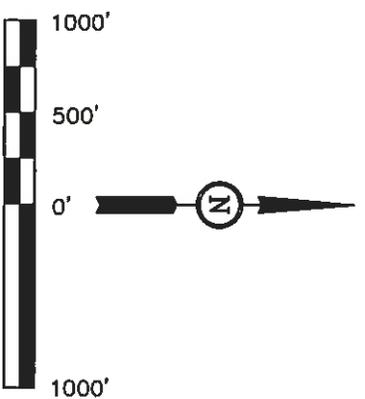
Well location, #16-6-45 BTR, located as shown in the SE 1/4 SE 1/4 of Section 6, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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

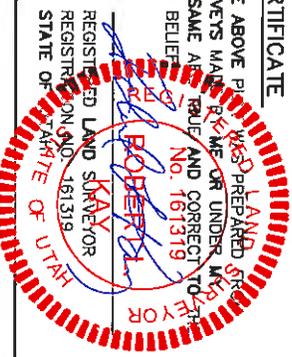
BASIS OF BEARINGS

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



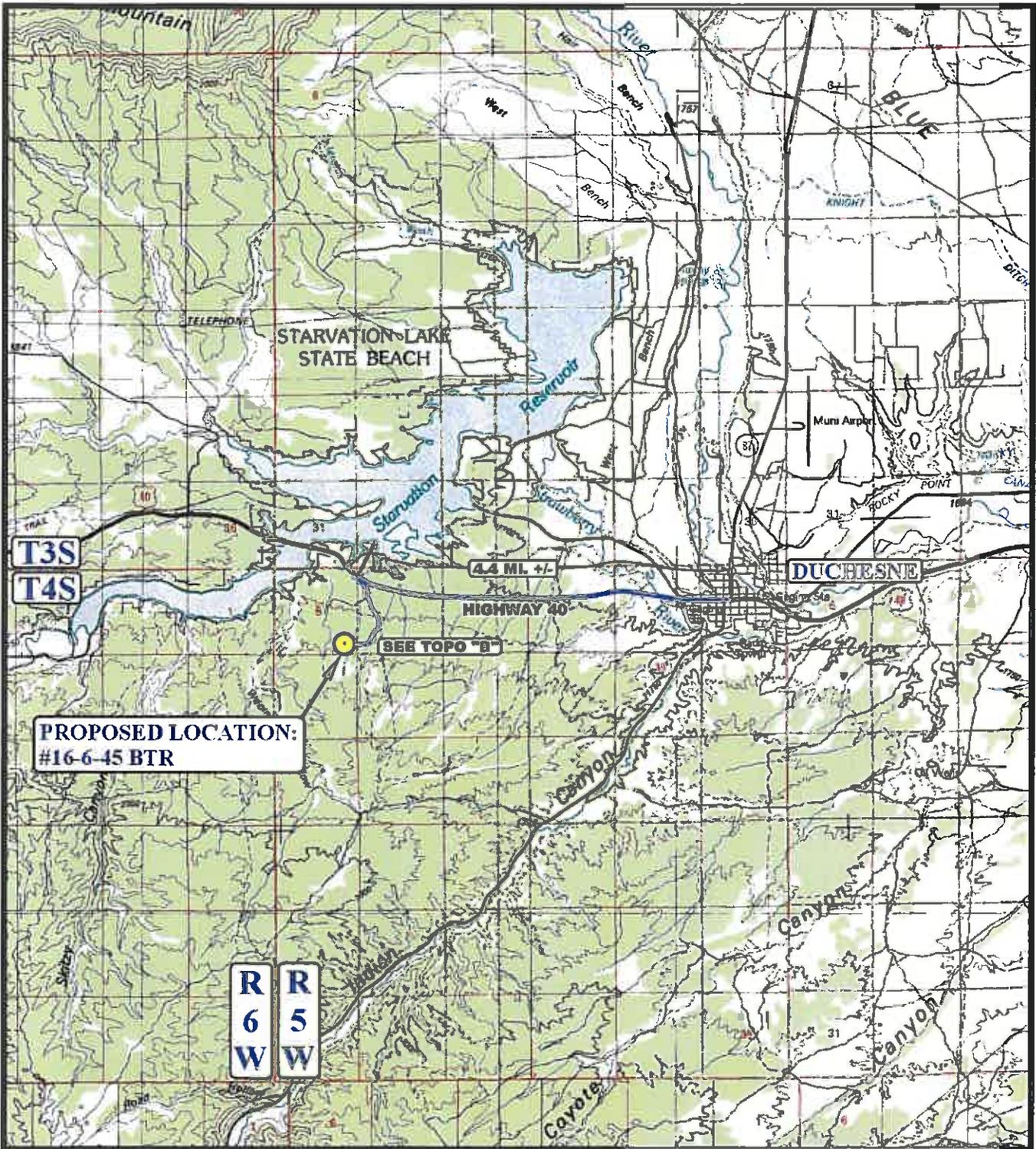
CERTIFICATE

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



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

SCALE	1" = 1000'	DATE SURVEYED:	09-29-10	DATE DRAWN:	10-19-10
PARTY	T.A. C.N. S.L.	REFERENCES	G.L.O. PLAT		
WEATHER	WARM	FILE	BILL BARRETT CORPORATION		



LEGEND:

 PROPOSED LOCATION



BILL BARRETT CORPORATION

#16-6-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL



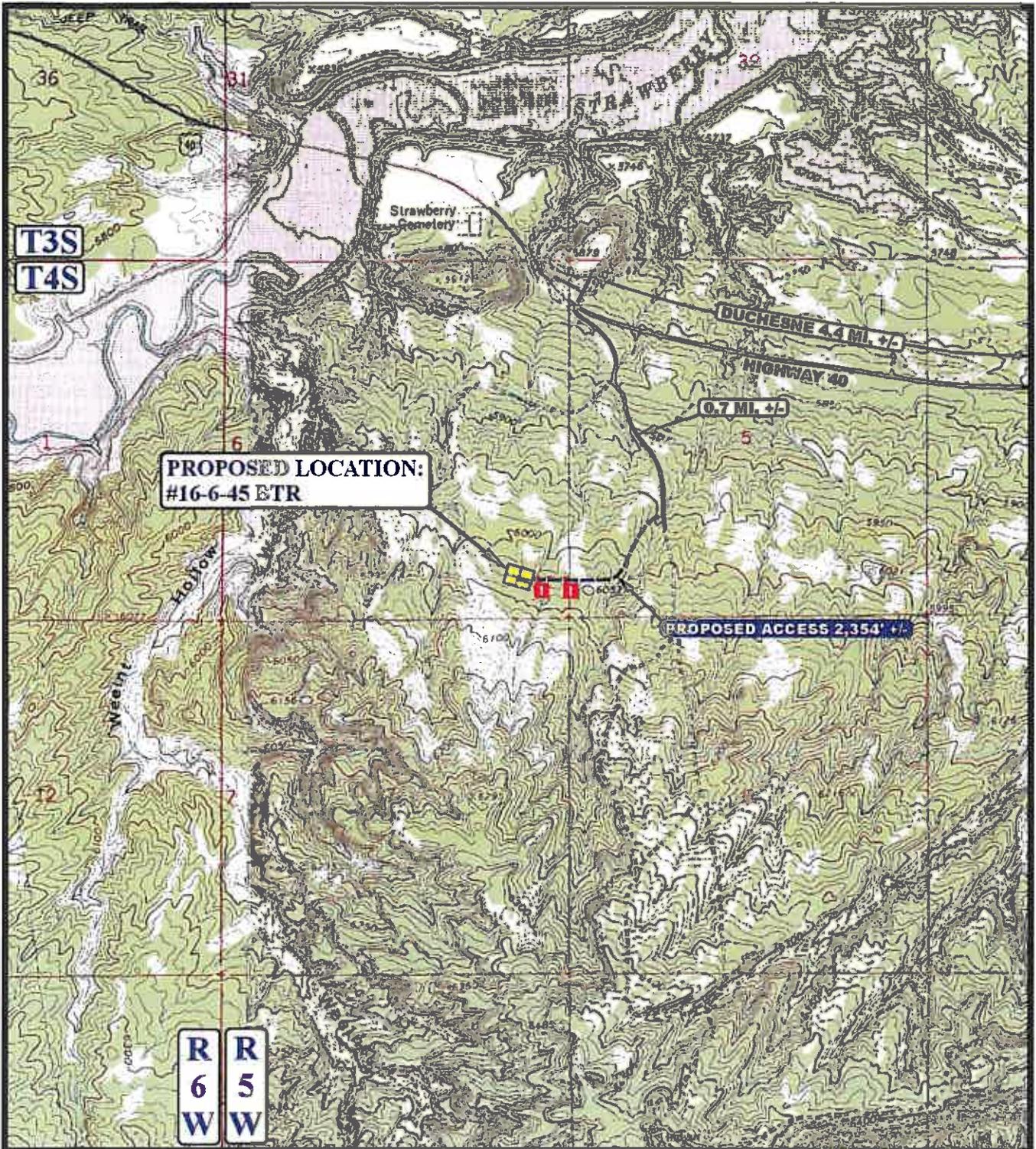
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

10 06 10
MONTH DAY YEAR



SCALE: 1:100,000 DRAWN BY: J.J. REVISED: 00-00-00



**PROPOSED LOCATION:
#16-6-45 ETR**

PROPOSED ACCESS 2,354 +/-

0.7 MI +/-

**DUCHEсне 4.4 MI +/-
HIGHWAY 40**

R 6 W **R 5 W**

LEGEND:

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



BILL BARRETT CORPORATION

**#16-6-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL**

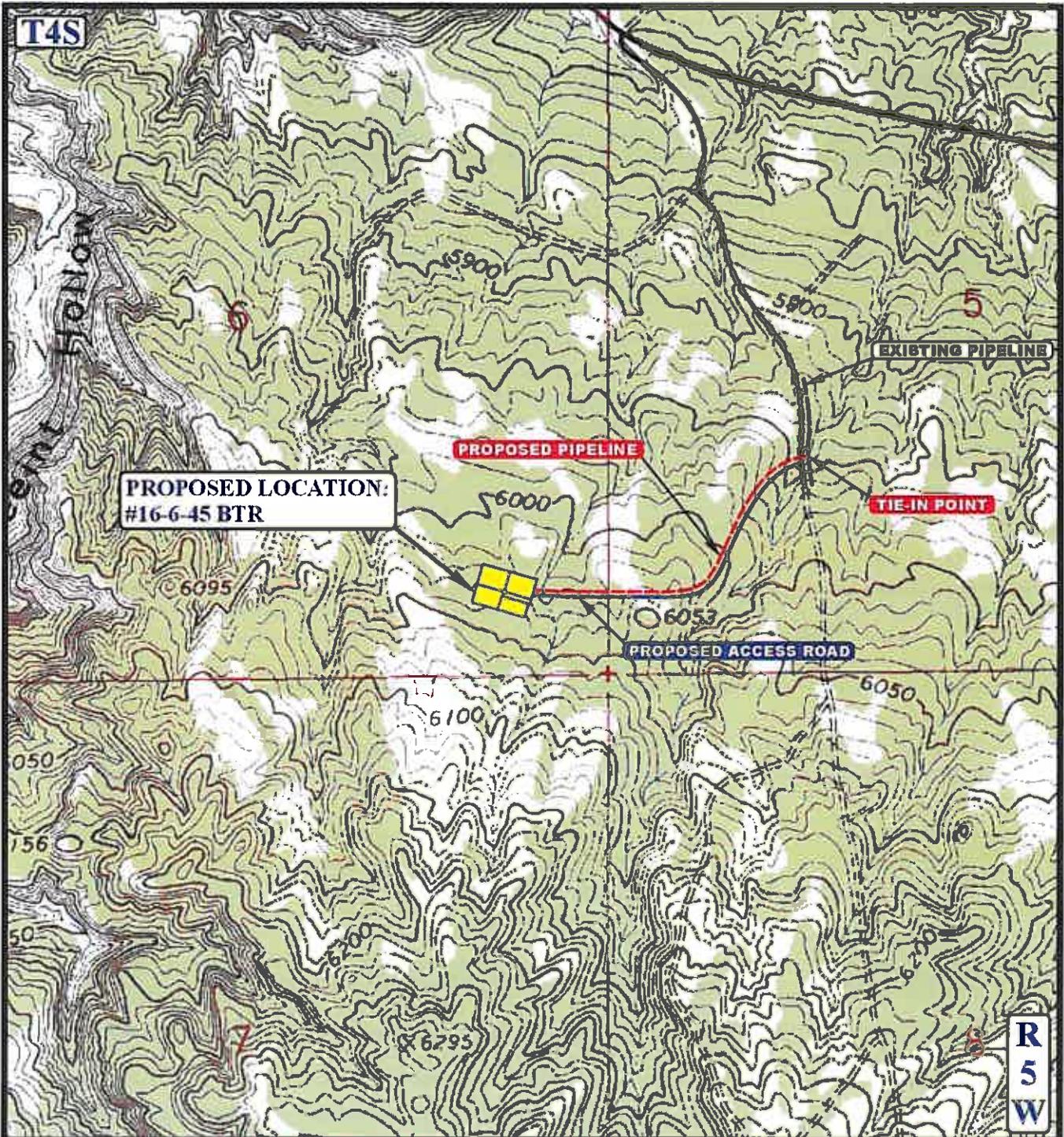


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TOPOGRAPHIC 10 06 10
MAP MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 2,386' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE



BILL BARRETT CORPORATION

#16-6-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL

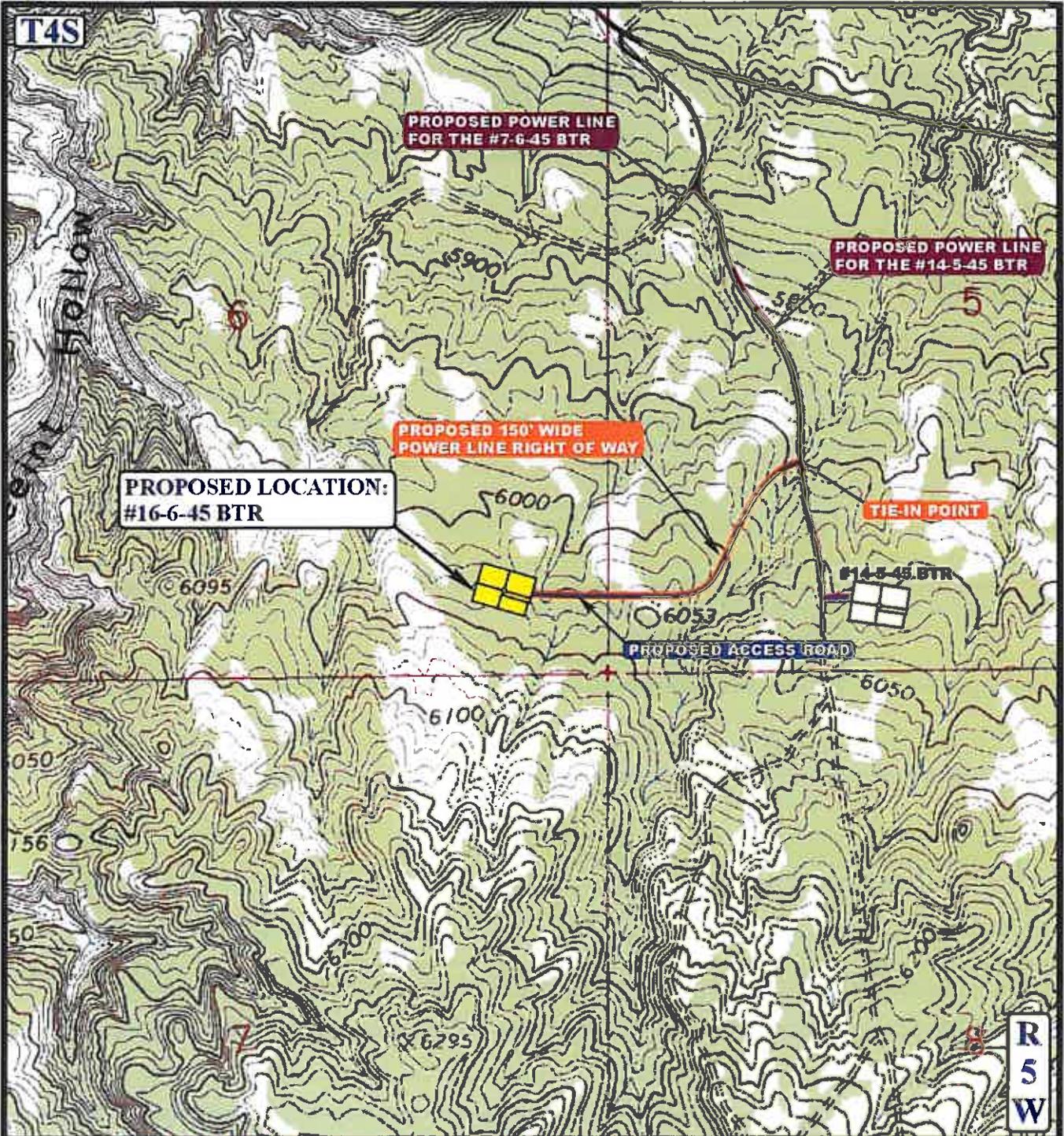


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TOPOGRAPHIC 10 06 10
MAP MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.J. REVISED: 00-00-00





APPROXIMATE TOTAL POWER LINE DISTANCE = 2.375' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  PROPOSED POWER LINE
-  PROPOSED POWER LINE (SERVICING OTHER WELLS)



BILL BARRETT CORPORATION

#16-6-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL



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

TOPOGRAPHIC 11 03 10
MAP MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: J.J. REVISED: 00-00-00

D
TOPO

One mile radius map

4S/6W

1

7-6-45_BTR

6

16-6-45_BTR

12

16-7-45_BTR

4S/5W

5

5-1(1-6D6)

8

7-8-45
BTR

2

	Bill Barrett Corporation
	16-6-45 BTR Pad SESE, Section 6, T4S, R5W Duchesne County, Utah
Legend	
	Oil - 4 Total
	P&A - 1 Total

BILL BARRETT CORPORATION
SURFACE USE PLAN

16-6-45 BTR Well Pad

SESE, 608' FSL, 756' FEL, Section 6, T4S, R5W, USB&M (surface hole)

SESE, 608' FSL, 756' FEL, Section 6, T4S, R5W, USB&M (bottom hole)

Duchesne County, UT

The Ute Tribal onsite for this location was conducted on December 1, 2010. Site specific requirements from the onsite to adhere to are as follows:

- 1) Divert runoff around the pad area;
- 2) Facilities paint color: Beetle

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 5.6 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 proposed access will connect to an existing road. A ROW for the 16-6-45 BTR is currently under review.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 2354 feet of new access road is proposed entering the eastern side of the pad area (see Topographic Map B).
- b. A tribal right of way (ROW) is applied for and pending approval. The road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and roughen the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed because the access road is short and adequate site distance exists in all directions.
- i. Two eighteen inch CMP's are required to be installed (see Topographic Map B.) 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	four
vii. abandoned wells	one

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit with natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks would be small (75 horsepower or less), natural gas-fired internal combustion engines.
- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and

measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.

- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 2386 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) is proposed. Pipelines would be constructed of steel, polyethylene or fiberglass. The pipeline corridor would connect to the previously approved 7-6-45 BTR pipeline corridor approved under tribal ROW H62-2010-076
- g. The new segment of gas pipeline would be surface laid line within a 30 foot wide pipeline ROW adjacent to the proposed access road. The pipeline has been applied for and is pending approval at this time. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle, 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.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.

1. 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 the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W, USB&M.
- 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. Additionally, the Ute Tribe would be notified of any changes in water supply.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 3.64 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.
- 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:
 - 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 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.
- c. Approximately 2375 feet of powerline corridor is proposed (see Topographic Map D) adjacent to the existing road. The proposed corridor would be 150 feet, 75 feet on each side of the centerline of the existing access road. See 12.d below for disturbance estimates.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with Ute Tribe specifications.
- d. The pad has been staked at its maximum size of 400 feet x 285 feet with an inboard reserve pit size of 100 feet x 200 feet X 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- 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 pad 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. A list of noxious weeds may be obtained from the Ute Tribe, BLM or the appropriate county extension office. On Ute Tribe administered land it is required that a Pesticide Use Proposal be submitted and approved prior to the application of herbicides, pesticides or possibly hazardous chemicals.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. 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 & Mineral ownership – Ute Indian Tribe - 988 South 7500 East (Annex Building); Ft. Duchesne, Utah 84026; 435-725-4950. Tribal ROWs are pending.

12. Other Information:

- a. Montgomery Archaeological 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 MOAC Report No. 10-210, dated October 25, 2010.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
 - No dogs or firearms within the Project Area;
 - No littering within the Project Area;
 - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders;
 - Campfires or uncontained fires of any kind would be prohibited.
 - Portable generators used in the Project Area would have spark arrestors
- d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.46	acres
Access	2354 ft	--	acres
Pipeline	2385 ft	--	acres
Powerline ¹	2375 ft	8.21	acres
	Total	11.68	acres

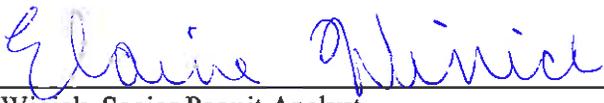
¹Disturbance calculated for access and pipeline included within the powerline acreage as all are co-located.

OPERATOR CERTIFICATION

Certification:

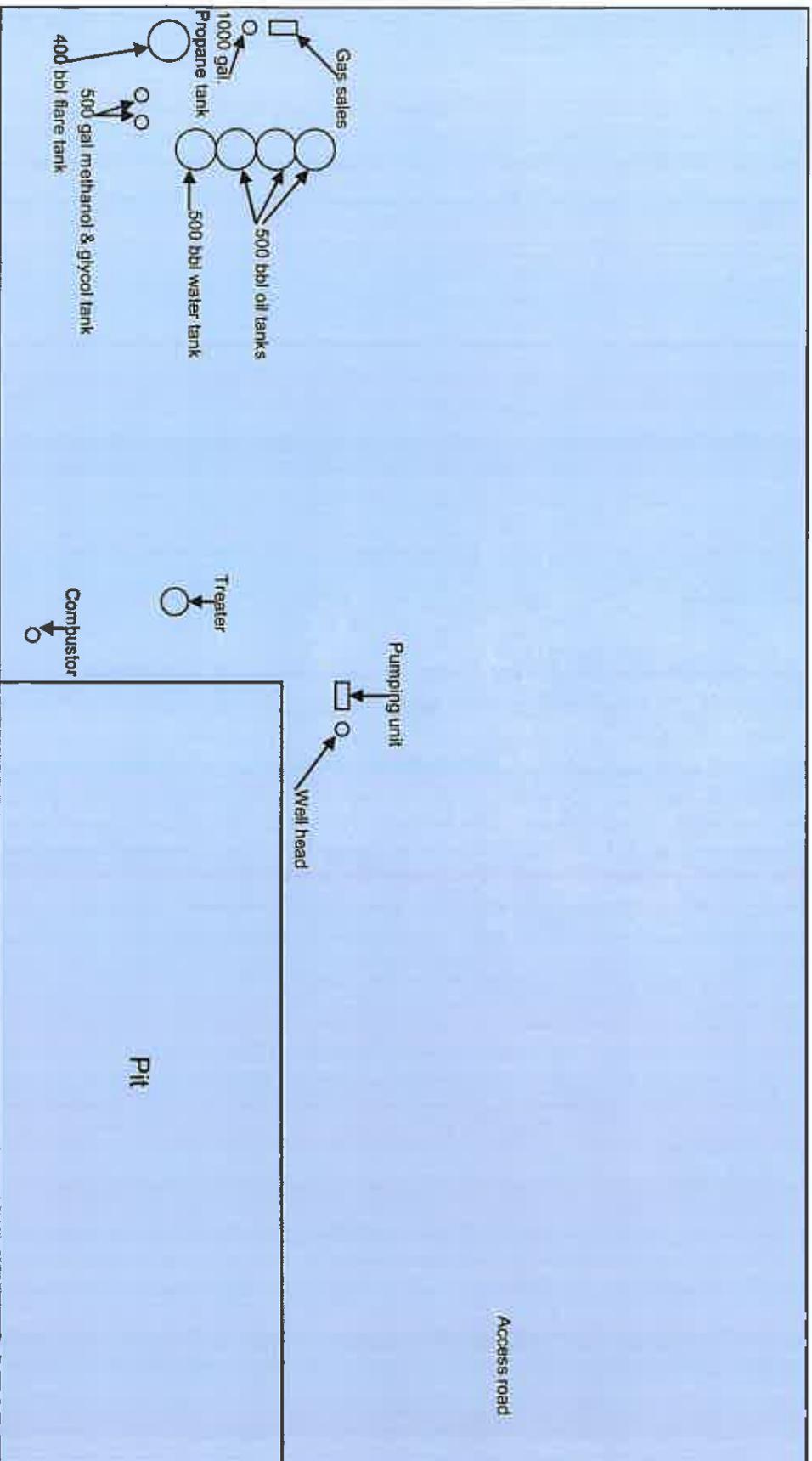
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made 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	23 day of February 2011
Name:	Elaine Winick
Position Title:	Senior Permit Analyst
Address:	1099 18 th Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8168
E-mail:	ewinick@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



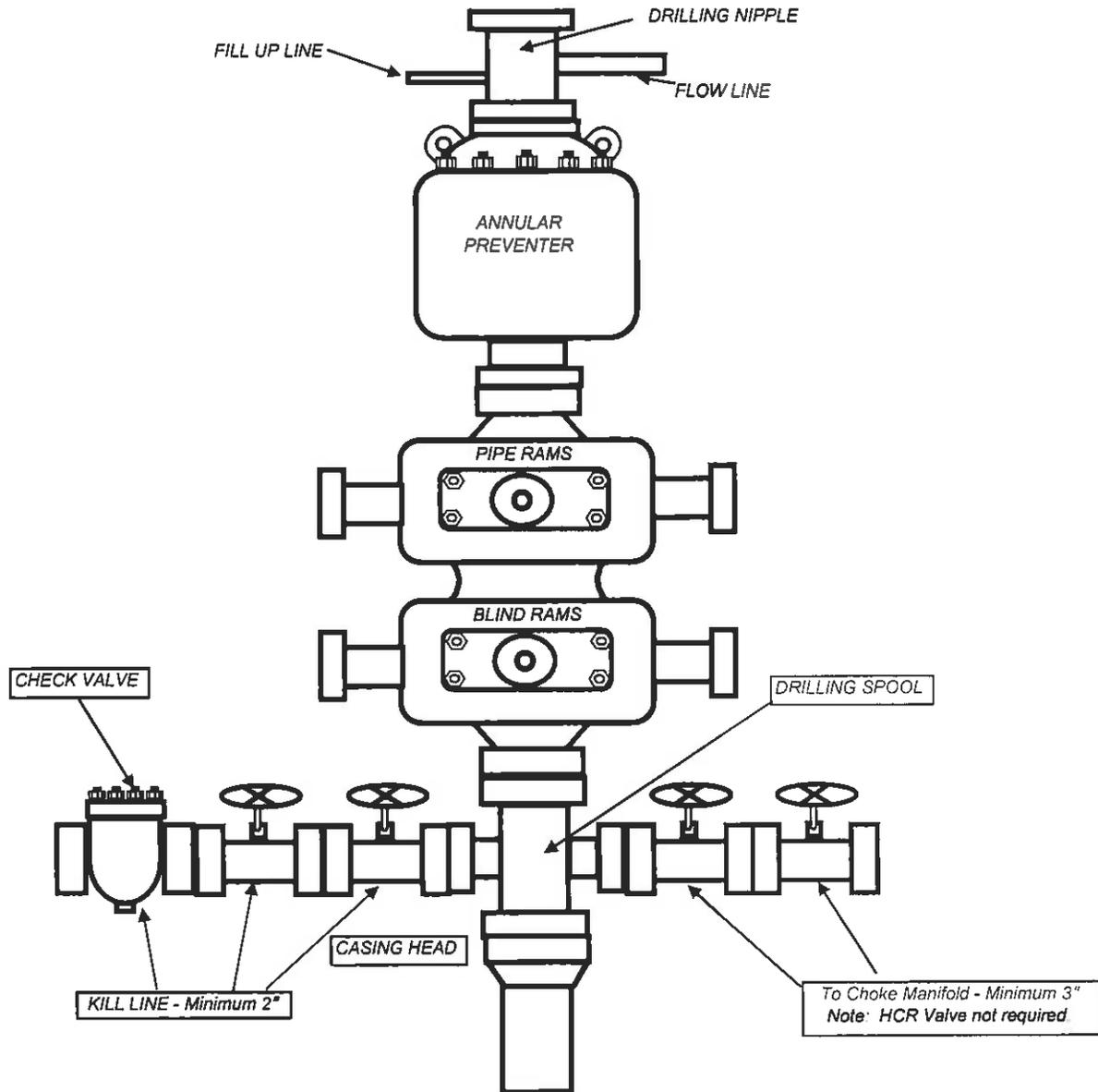
Elaine Winick, Senior Permit Analyst

16-6-45 BTR Facility Diagram
2/23/2011



BILL BARRETT CORPORATION

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



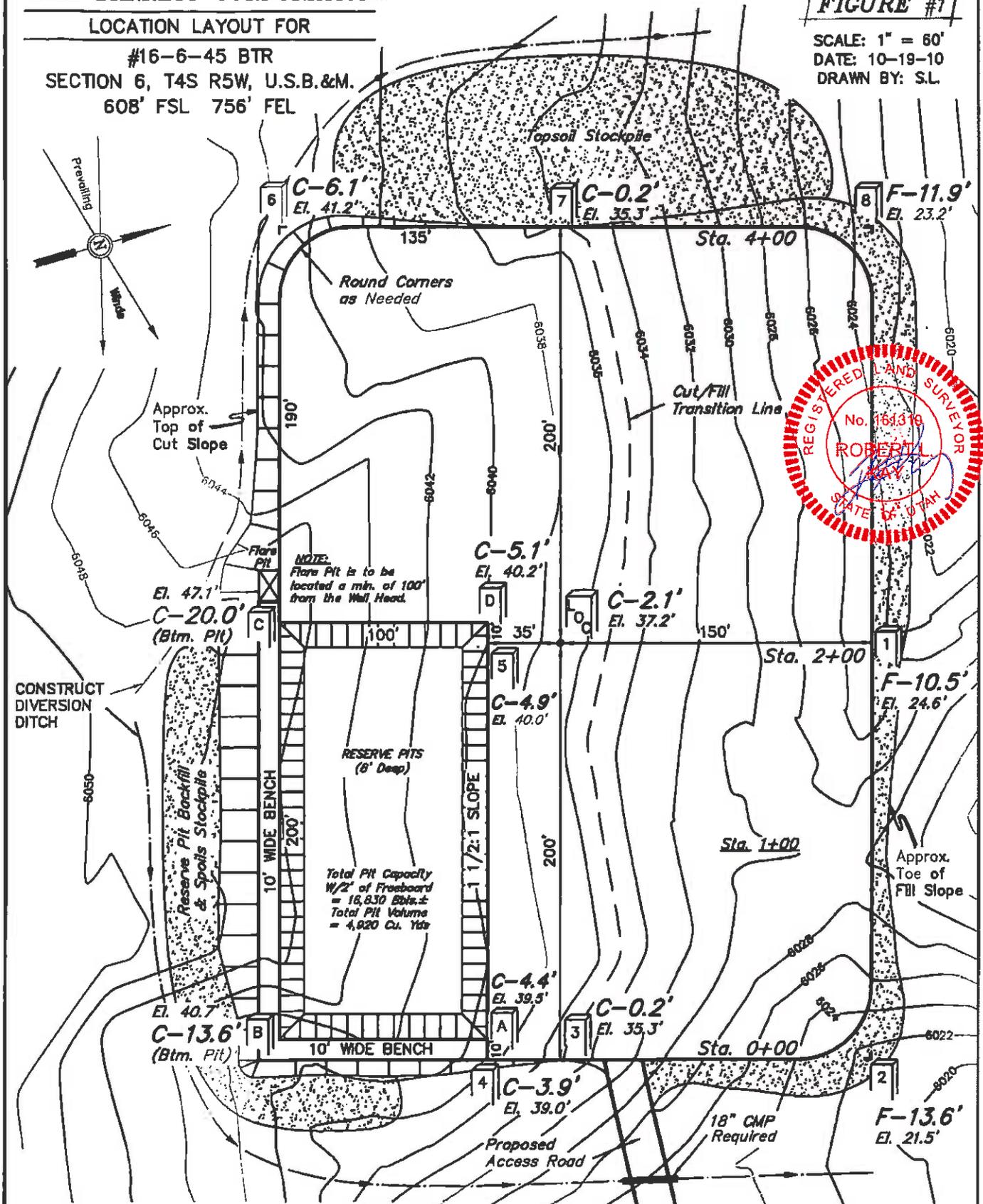
BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

#16-6-45 BTR
SECTION 6, T4S R5W, U.S.B.&M.
608' FSL 756' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 10-19-10
DRAWN BY: S.L.



Elev. Ungraded Ground At Loc. Stake = 6037.2'
FINISHED GRADE ELEV. AT LOC. STAKE = 6035.1'

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85 So. 200 East • Vernal, Utah 84078 • (435) 788-1017

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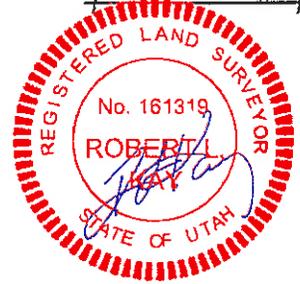
TYPICAL CROSS SECTIONS FOR

#16-6-45 BTR

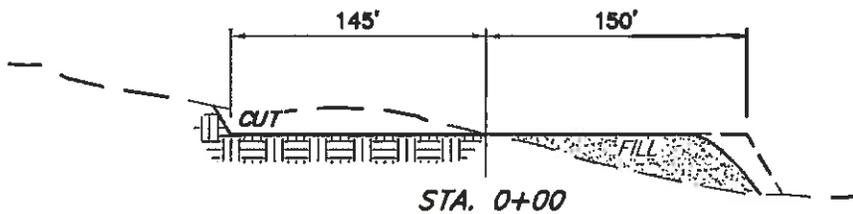
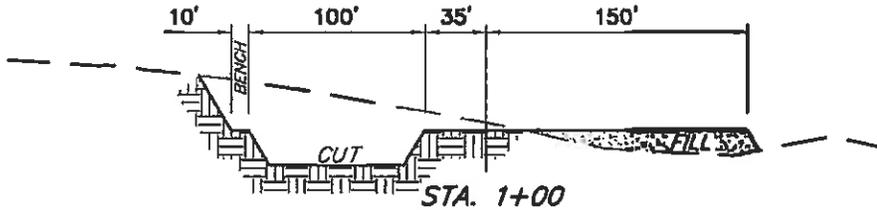
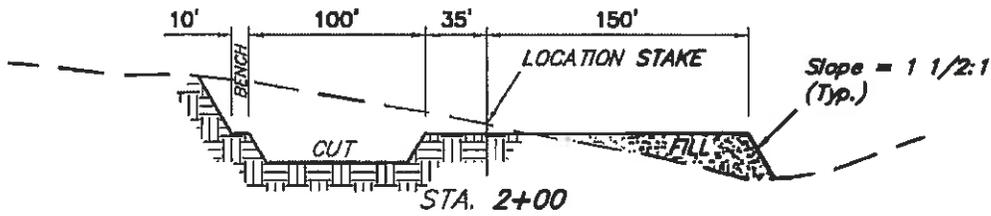
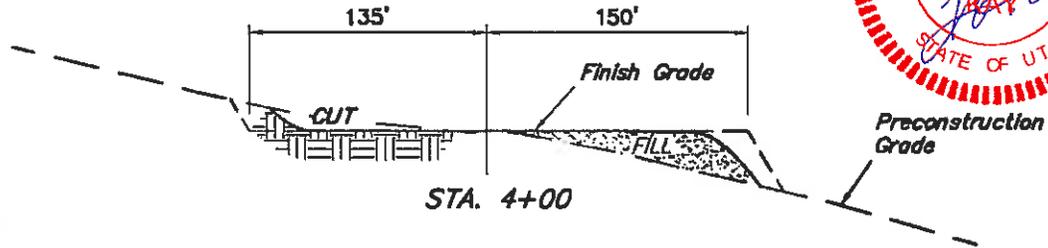
SECTION 6, T4S R5W, U.S.B.&M.

608' FSL 756' FEL

FIGURE #2



1" = 40'
X-Section
Scale
1" = 100'
DATE: 10-19-10
DRAWN BY: S.L.



NOTE:

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

*** NOTE:**

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	=	5,080 Cu. Yds.
Remaining Location	=	16,720 Cu. Yds.
TOTAL CUT	=	21,800 CU.YDS.
FILL	=	14,260 CU.YDS.

EXCESS MATERIAL	=	7,540 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	7,540 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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BILL BARRETT CORPORATION

TYPICAL RIG LAYOUT FOR

#16-6-45 BTR

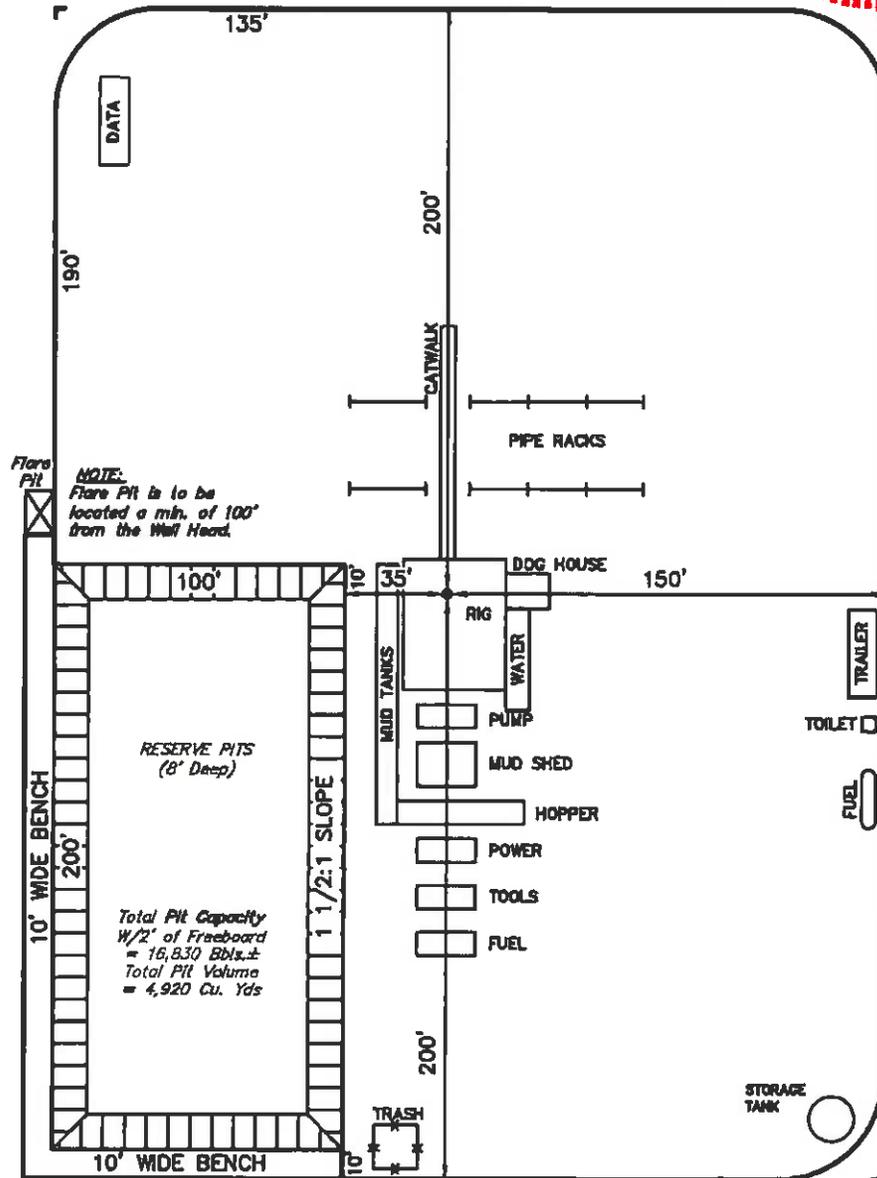
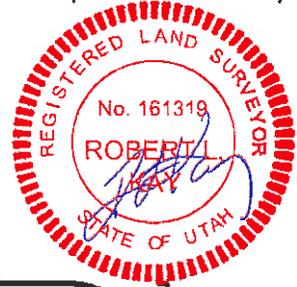
SECTION 6, T4S R5W, U.S.B.&M.

608' FSL 756' FEL

FIGURE #3



SCALE: 1" = 60'
DATE: 10-19-10
DRAWN BY: S.L.



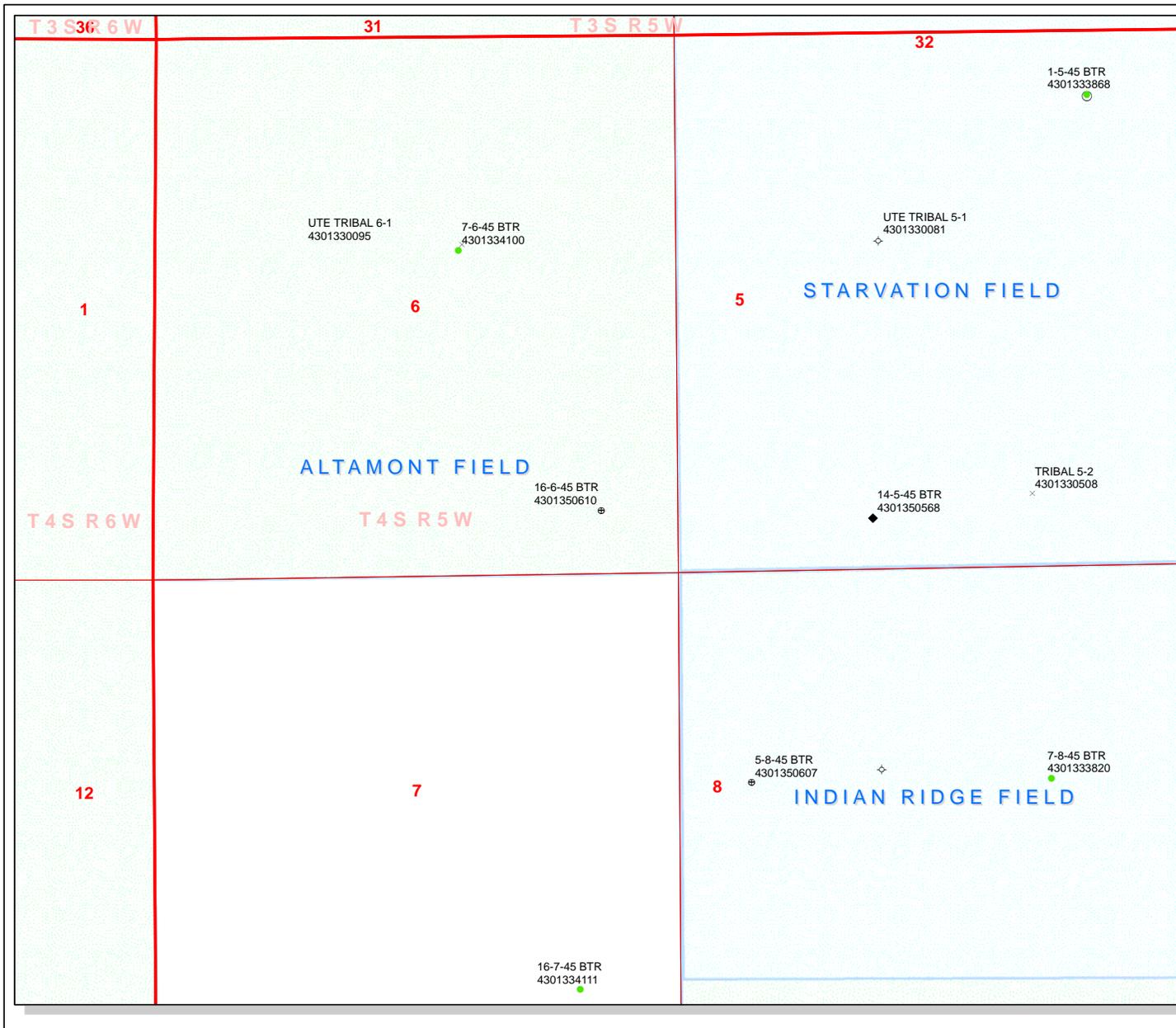
*Proposed
Access Road*

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BILL BARRETT CORPORATION
#16-6-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 4.4 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTELY DIRECTION APPROXIMATELY 0.7 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE WEST; FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 2,354' TO THE PROPOSED LOCATION.

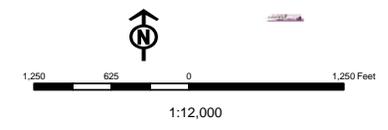
TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 5.6 MILES.



API Number: 4301350610
Well Name: 16-6-45 BTR
Township 04.0 S Range 05.0 W Section 06
Meridian: UBM
Operator: BILL BARRETT CORP

Map Prepared:
 Map Produced by Diana Mason

- | | |
|--|---|
| Units | Wells Query |
| <ul style="list-style-type: none"> ACTIVE EXPLORATORY GAS STORAGE NF PP OIL NF SECONDARY PI OIL PP GAS PP GEOTHERML PP OIL SECONDARY TERMINATED | <ul style="list-style-type: none"> APD - Approved Permit DRL - Spudded (Drilling Commenced) GIW - Gas Injection GS - Gas Storage LA - Location Abandoned LOC - New Location DPS - Operation Suspended PA - Plugged Abandoned PGW - Producing Gas Well POW - Producing Oil Well 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 |
| Fields | |
| <ul style="list-style-type: none"> Unknown ABANDONED ACTIVE COMBINED INACTIVE STORAGE TERMINATED | |
| <ul style="list-style-type: none"> Sections Township | |



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/23/2011

WELL NAME: 16-6-45 BTR

OPERATOR: BILL BARRETT CORP (N2165)

CONTACT: Elaine Winick

API NO. ASSIGNED: 43013506100000

PHONE NUMBER: 303 293-9100

PROPOSED LOCATION: SESE 06 040S 050W

SURFACE: 0608 FSL 0756 FEL

BOTTOM: 0608 FSL 0756 FEL

COUNTY: DUCHESNE

LATITUDE: 40.15637

UTM SURF EASTINGS: 543803.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-6296

SURFACE OWNER: 2 - Indian

Permit Tech Review:

Engineering Review:

Geology Review:

LONGITUDE: -110.48569

NORTHINGS: 4445029.00

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
Board Cause No: Cause 139-85
Effective Date: 3/11/2010
Siting: 4 Prod LGRRV-WSTC Wells in Drilling Units
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 16-6-45 BTR
API Well Number: 43013506100000
Lease Number: 14-20-H62-6296
Surface Owner: INDIAN
Approval Date: 3/2/2011

Issued to:

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

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

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

Conditions of Approval:

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

Notification Requirements:

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

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>

Reporting Requirements:

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

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month

- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6296
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: 16-6-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506100000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 9/1/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input checked="" 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: 50px;" type="text"/>

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

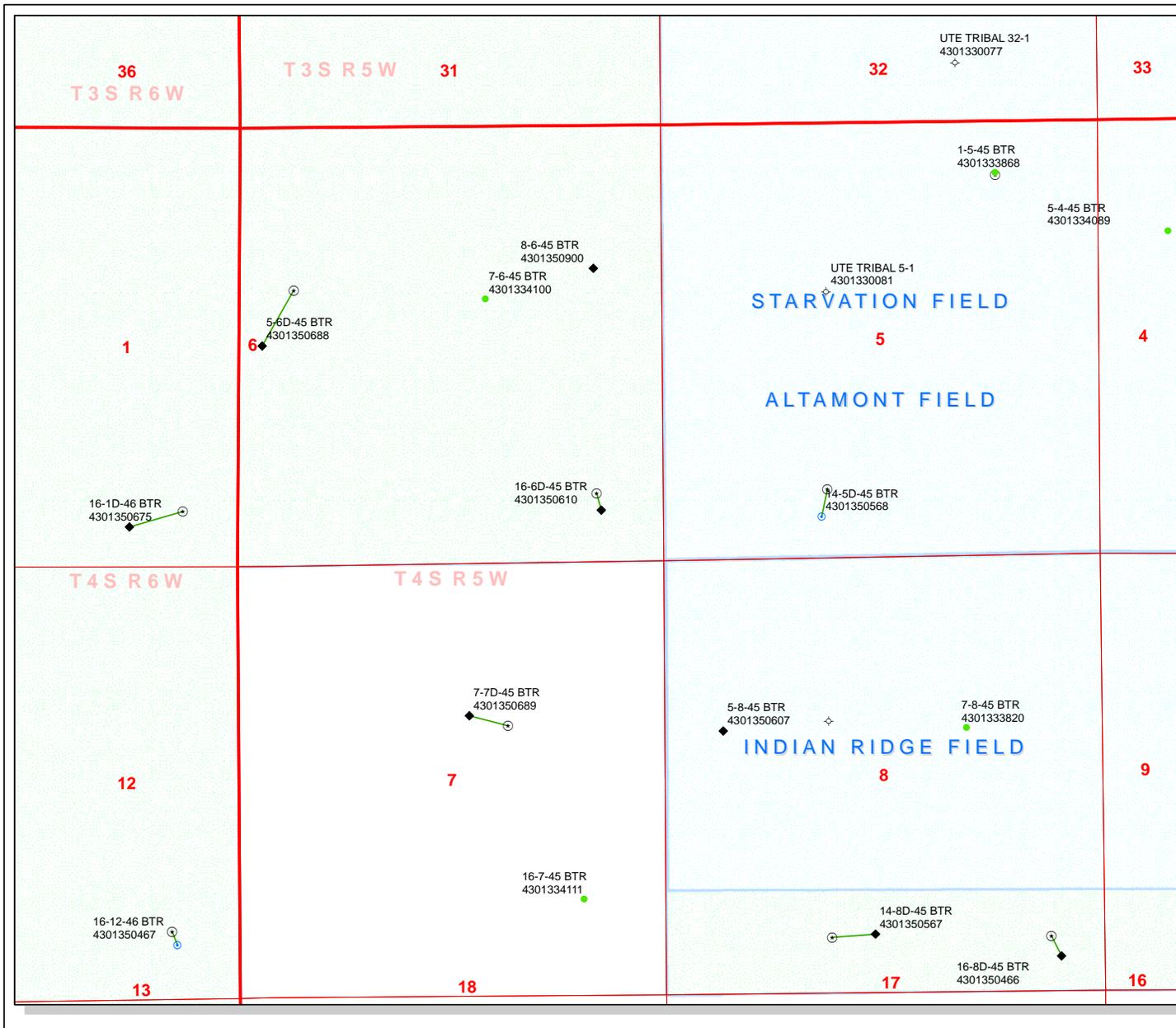
BBC hereby requests to change this well from a vertical to a directional well. The surface location and drilling program will remain the same as previously approved. Requested Bottom Hole: SE SE 810' FSL and 810' FEL Sec. 6, T4S-R5W Because of the directional change, BBC is also requesting to change the well name from 16-6-45 BTR to 16-6D-45 BTR. See attached survey plats and directional plan.

Approved by the Utah Division of Oil, Gas and Mining

Date: 08/24/2011

By:

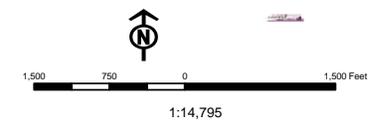
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 8/1/2011	



API Number: 4301350610
Well Name: 16-6D-45 BTR
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 GEOTHERMAL | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| Fields STATUS | SGW - Shut-in Gas Well |
| Unknown | SOW - Shut-in Oil Well |
| ABANDONED | TA - Temp. Abandoned |
| ACTIVE | TW - Test Well |
| COMBINED | WDW - Water Disposal |
| INACTIVE | WIW - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |
| Sections | |
| Township | |



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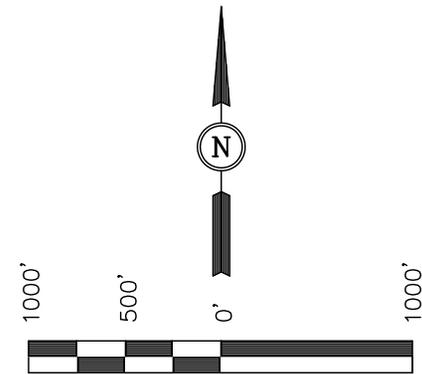
Well location, #16-6D-45 BTR, located as shown in the SE 1/4 SE 1/4 of Section 6, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

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 ON CAP AS BEING 6097 FEET.

BASIS OF BEARINGS

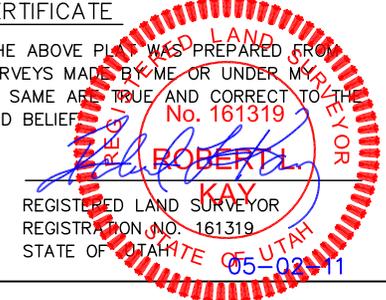
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE

CERTIFICATE

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



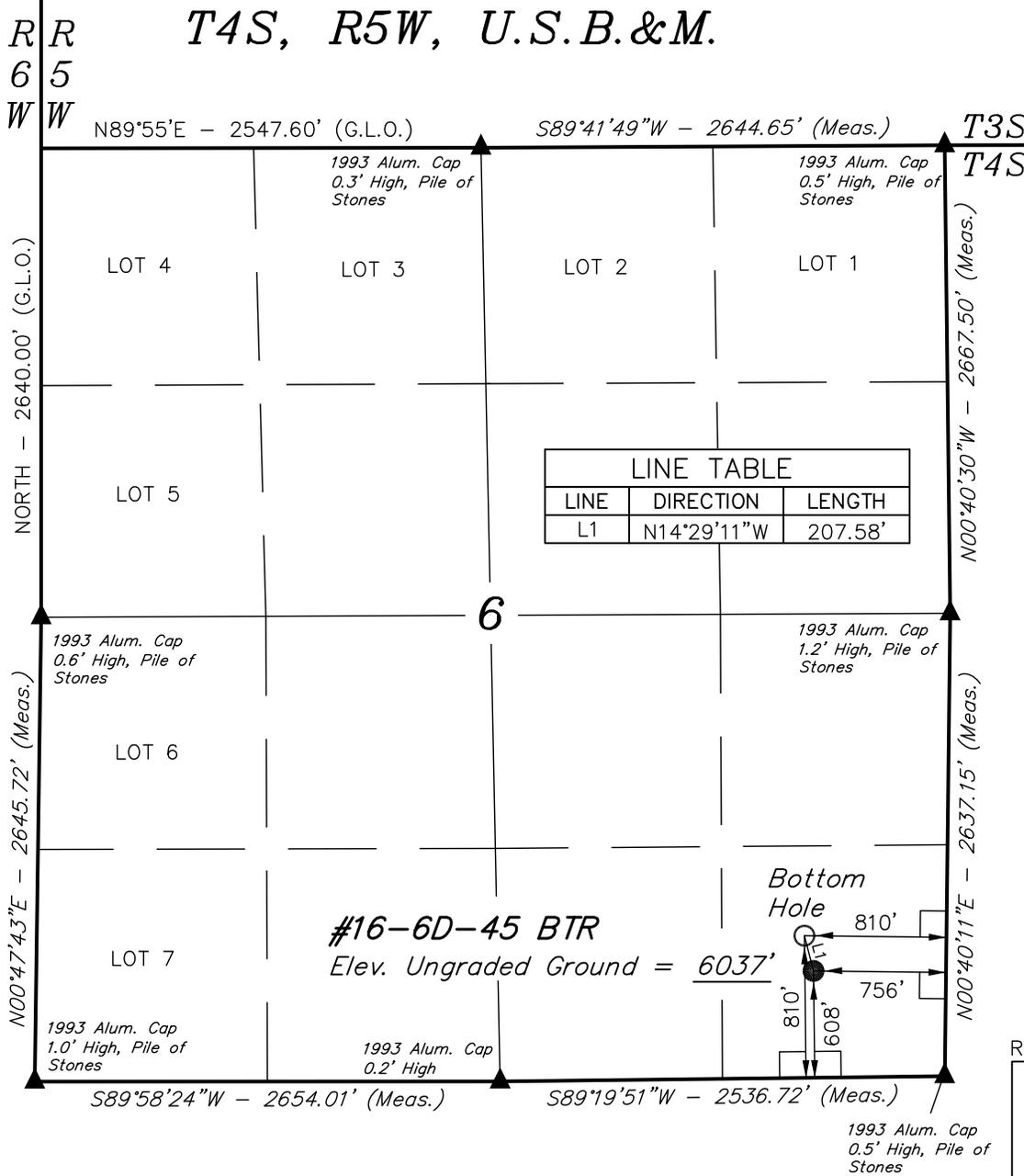
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

05-03-11

REVISED: 04-27-11

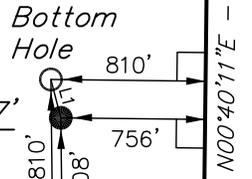
UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 09-29-10	DATE DRAWN: 10-19-10
PARTY T.A. C.N. S.L.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE BILL BARRETT CORPORATION	



LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N14°29'11"W	207.58'

#16-6D-45 BTR
Elev. Ungraded Ground = 6037'



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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'25.05" (40.156958)	LATITUDE = 40°09'23.07" (40.156408)
LONGITUDE = 110°29'11.21" (110.486447)	LONGITUDE = 110°29'10.54" (110.486261)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'25.20" (40.157000)	LATITUDE = 40°09'23.22" (40.156450)
LONGITUDE = 110°29'08.65" (110.485736)	LONGITUDE = 110°29'07.98" (110.485550)

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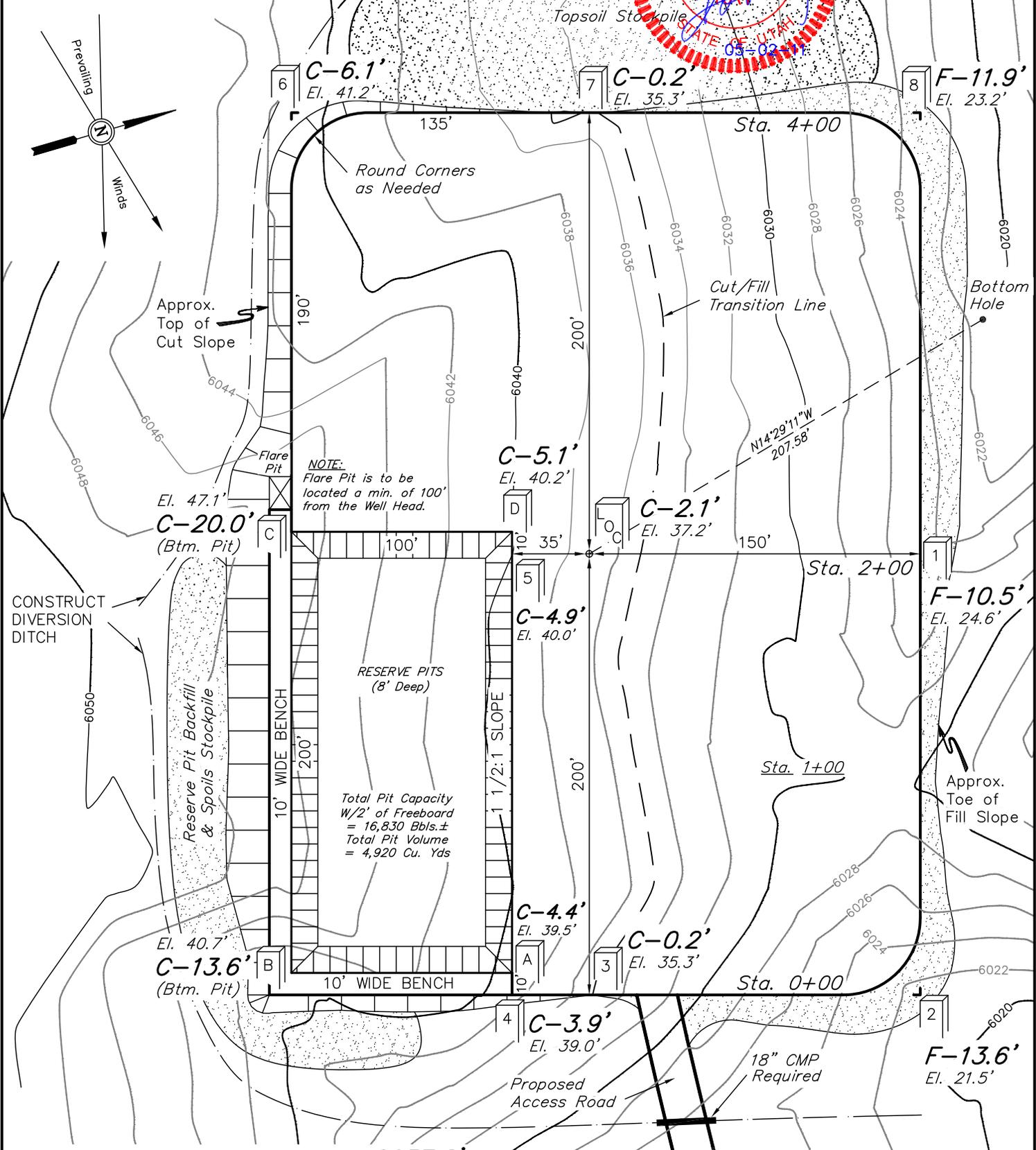
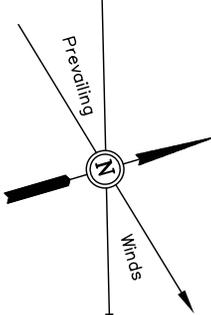
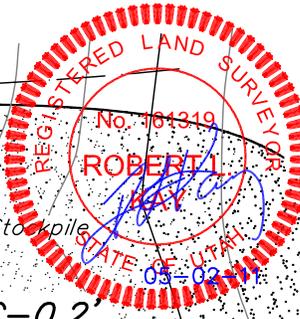
BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

#16-6D-45 BTR
SECTION 6, T4S R5W, U.S.B.&M.
608' FSL 756' FEL

FIGURE #1

SCALE: 1" = 60'
DATE: 10-19-10
DRAWN BY: S.L.
REVISED: 04-27-11



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

RESERVE PITS (8' Deep)
Total Pit Capacity W/2' of Freeboard = 16,830 Bbls.±
Total Pit Volume = 4,920 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = 6037.2'
FINISHED GRADE ELEV. AT LOC. STAKE = 6035.1'

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TYPICAL CROSS SECTIONS FOR

#16-6D-45 BTR

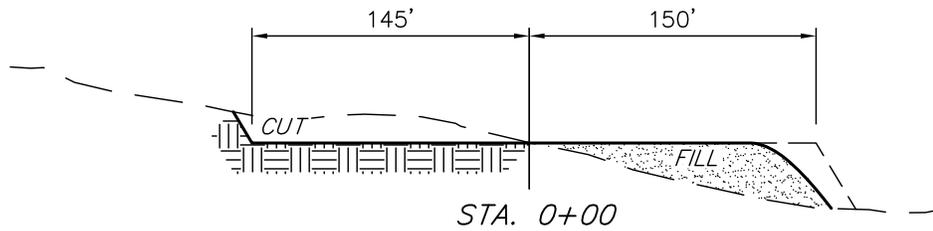
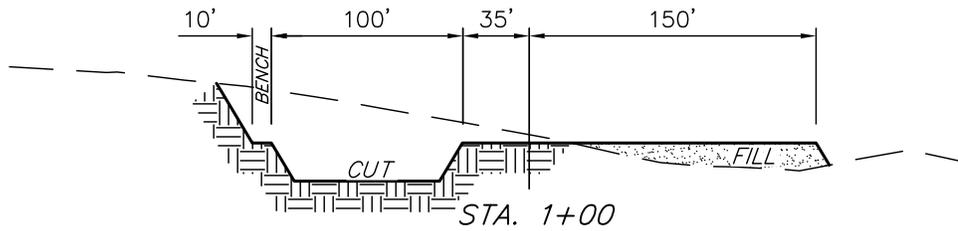
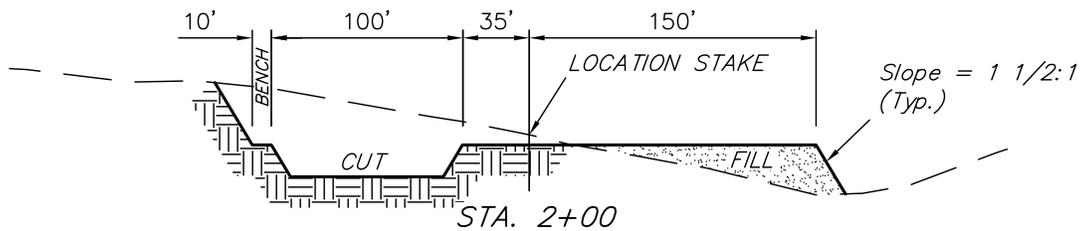
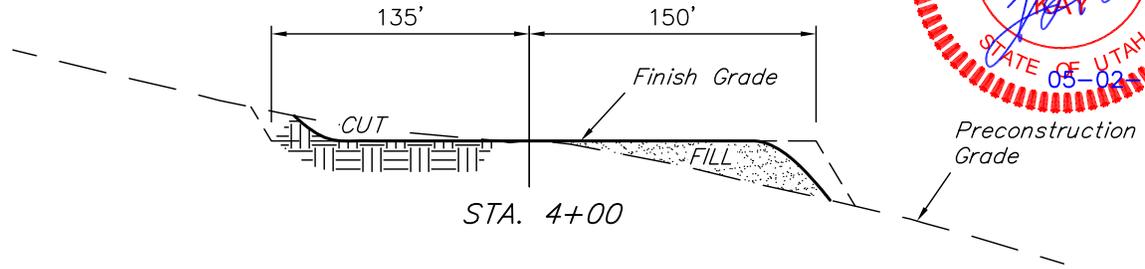
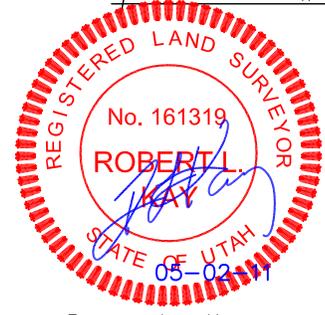
SECTION 6, T4S R5W, U.S.B.&M.

608' FSL 756' FEL

FIGURE #2

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

DATE: 10-19-10
DRAWN BY: S.L.
REVISED: 04-27-11



NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.461 ACRES
ACCESS ROAD DISTURBANCE = ± 1.622 ACRES
PIPELINE DISTURBANCE = ± 1.643 ACRES
TOTAL = ± 6.726 ACRES

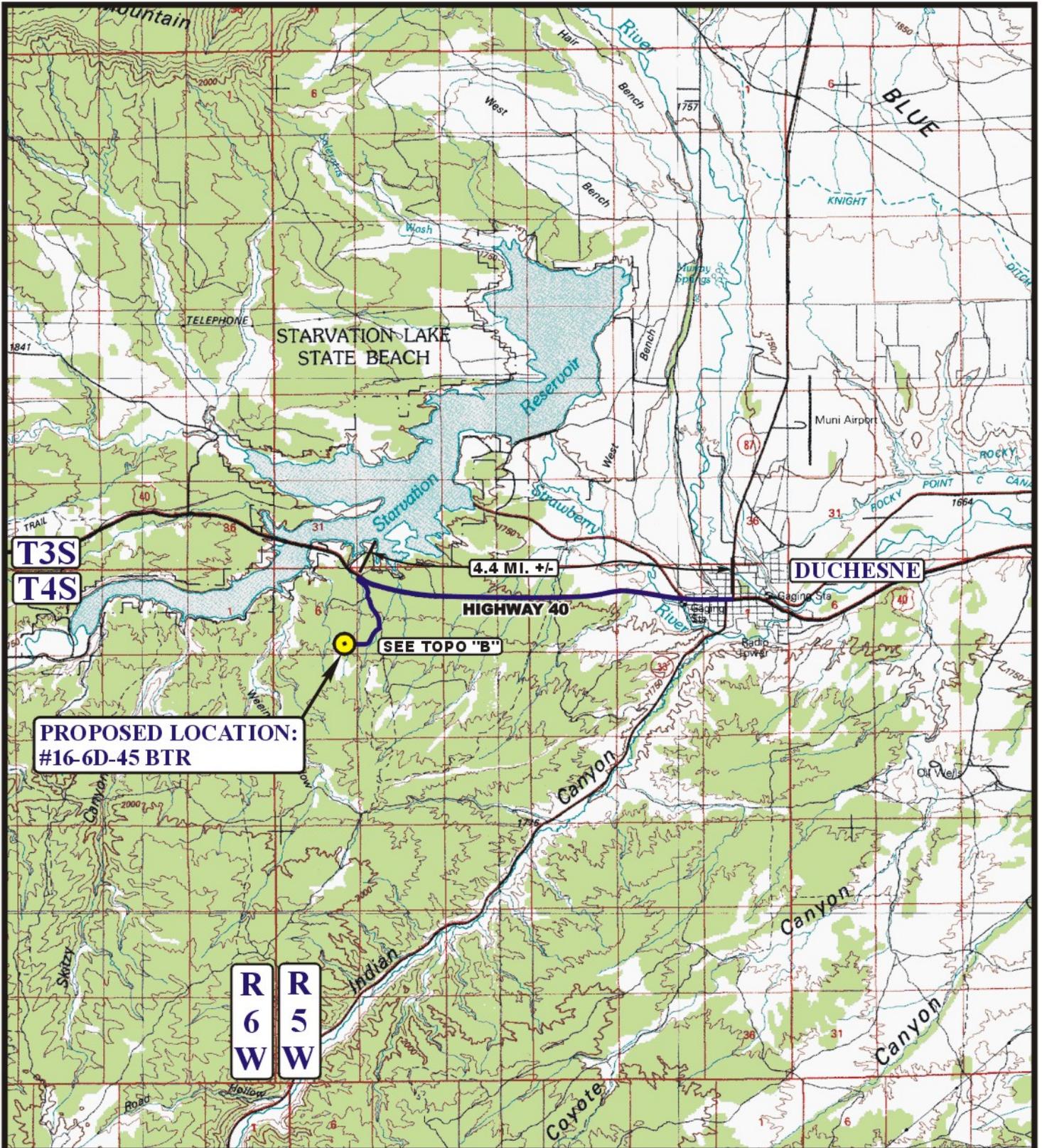
* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 5,080 Cu. Yds.
Remaining Location = 16,720 Cu. Yds.
TOTAL CUT = 21,800 CU.YDS.
FILL = 14,260 CU.YDS.

EXCESS MATERIAL = 7,540 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 7,540 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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**PROPOSED LOCATION:
#16-6D-45 BTR**

LEGEND:

 PROPOSED LOCATION



BILL BARRETT CORPORATION

**#16-6D-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL**



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**TOPOGRAPHIC
MAP**

10 06 10
MONTH DAY YEAR

SCALE: 1:100,000

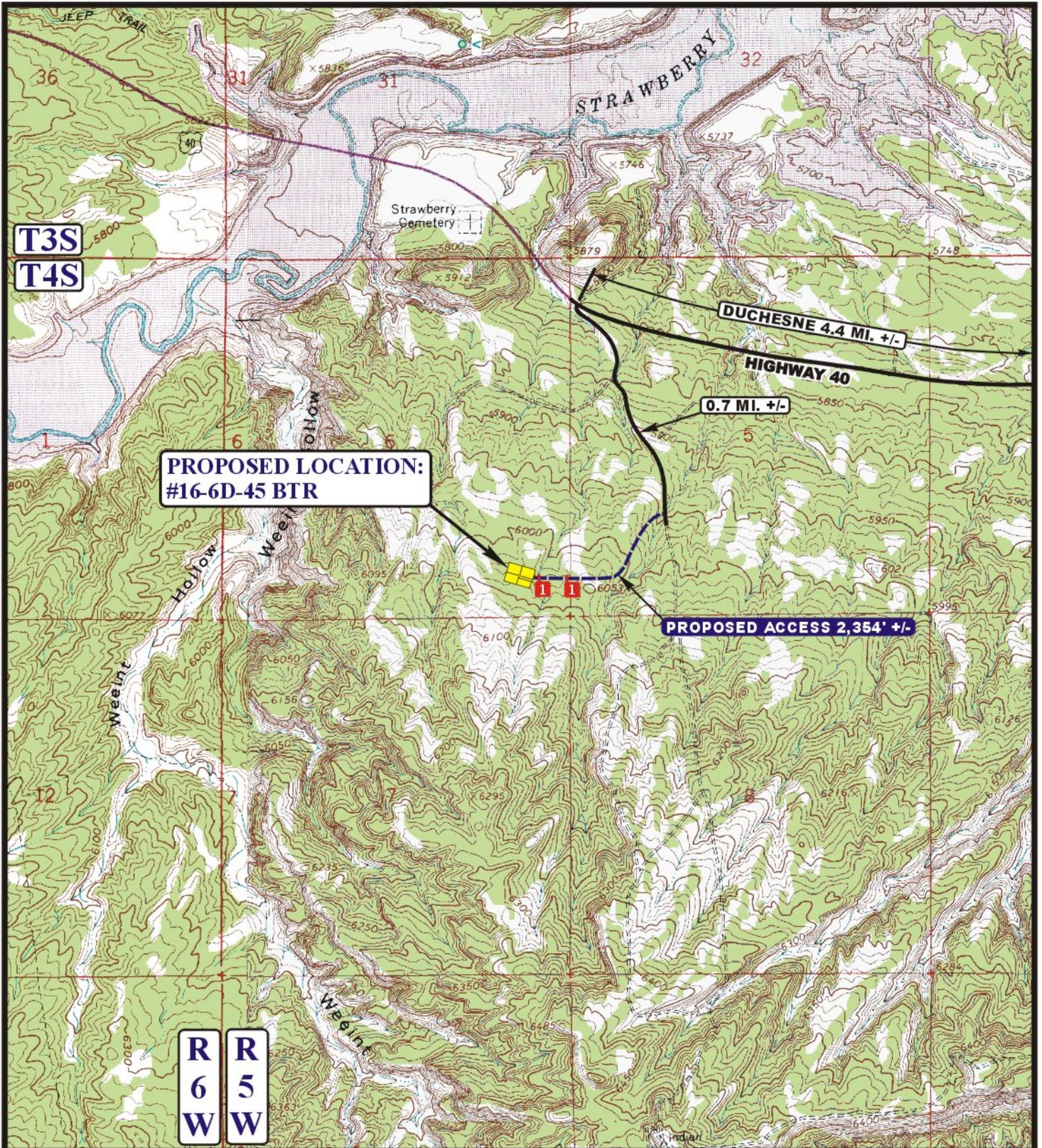
DRAWN BY: J.J.

REVISED: 04-29-11



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LEGEND:

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

BILL BARRETT CORPORATION

#16-6D-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL



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TOPOGRAPHIC
MAP

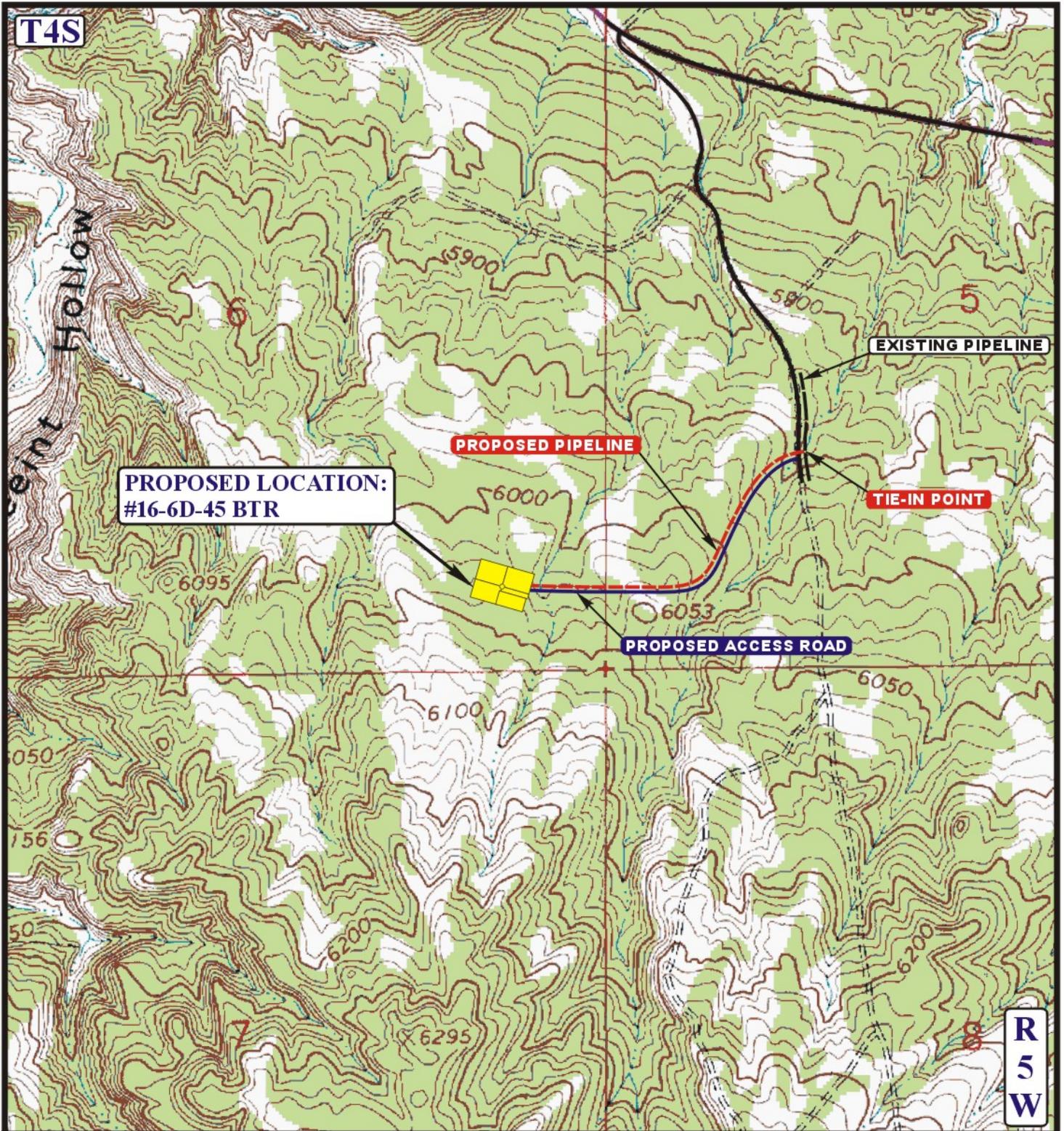
10 06 10
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 04-29-11

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Aug. 01, 2011



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,386' +/-

LEGEND:

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

BILL BARRETT CORPORATION

#16-6D-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL

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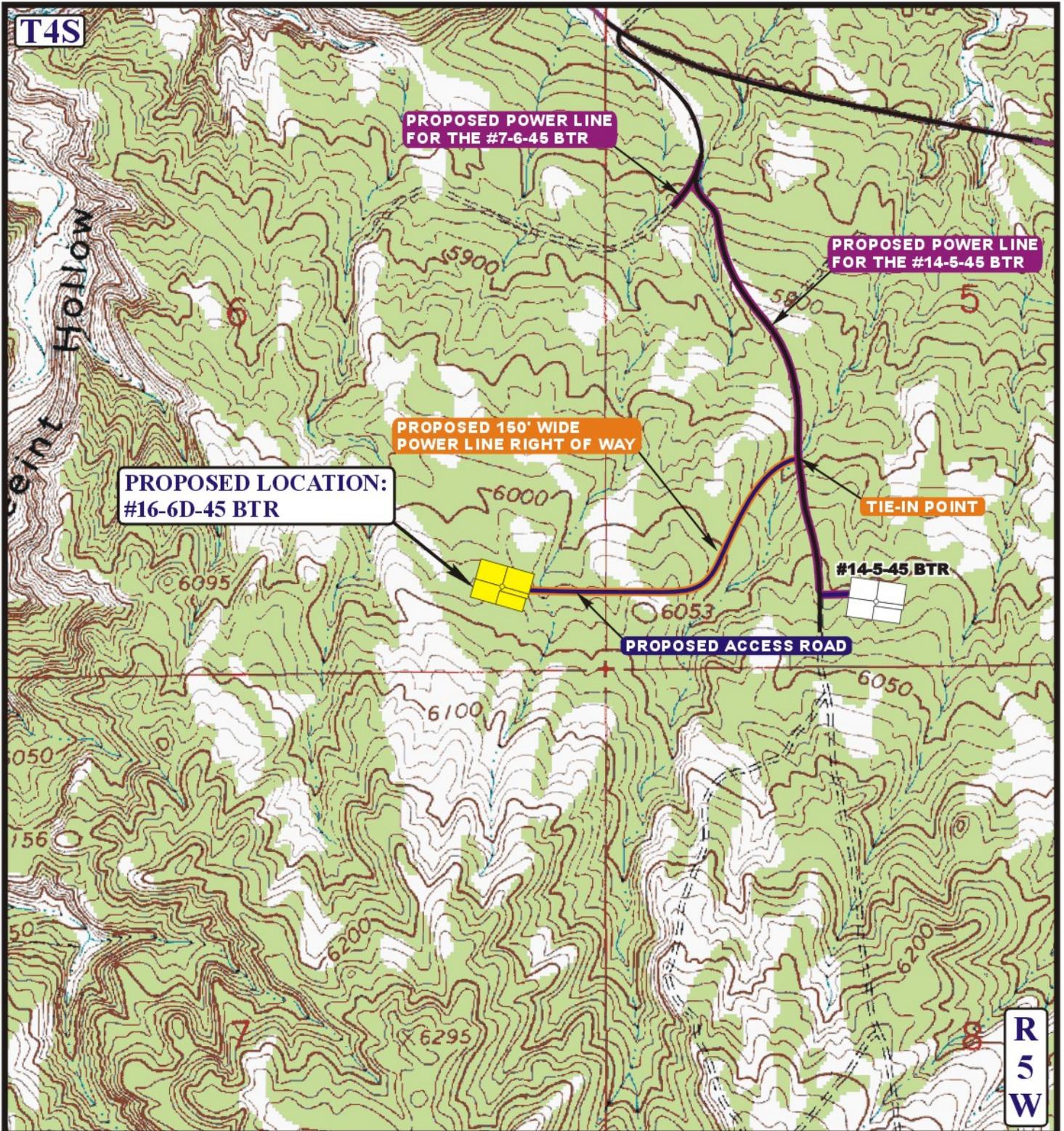


TOPOGRAPHIC MAP
 10 06 10
 MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: J.J. REVISED: 04-29-11



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APPROXIMATE TOTAL POWER LINE DISTANCE = 2,375' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  PROPOSED POWER LINE
-  PROPOSED POWER LINE (SERVICING OTHER WELLS)

BILL BARRETT CORPORATION

#16-6D-45 BTR
SECTION 6, T4S, R5W, U.S.B.&M.
608' FSL 756' FEL

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



TOPOGRAPHIC MAP **11 03 10**
 MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: J.J. REVISED: 04-29-11

D
TOPO

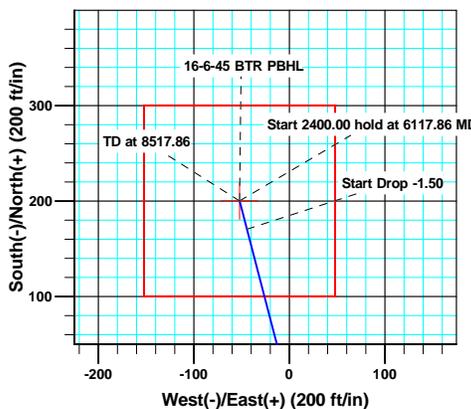
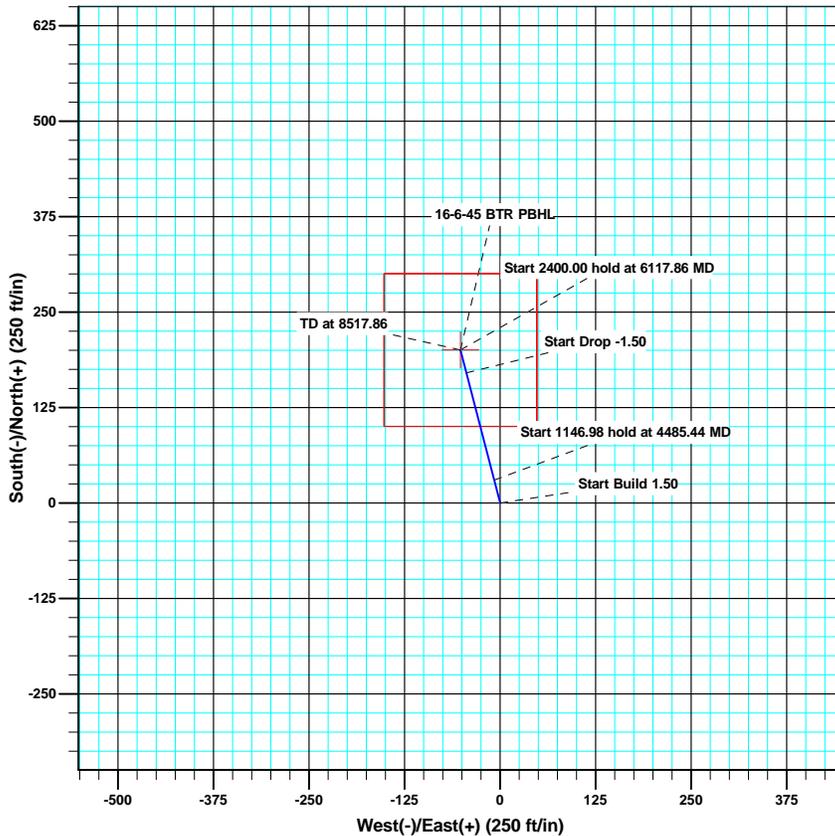
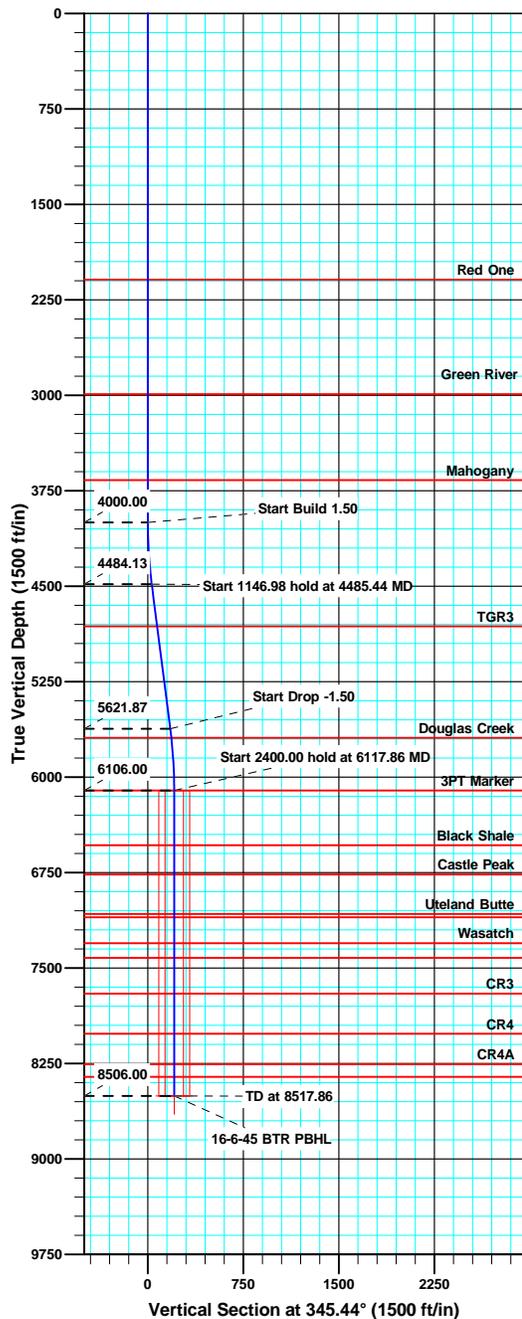
WELL DETAILS: 16-6D-45 BTR

US State Plane 1927 (Exact solution) , Utah Central 4302 , NAD 1927 (NADCON CONUS)



+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	665640.29	2283538.84	40° 9' 23.22 N	110° 29' 7.98 W

Ground Level: 6037.00 Well #1 - 16' KB



Azimuths to True North
Magnetic North: 11.52°

Magnetic Field
Strength: 52277.9snT
Dip Angle: 65.81°
Date: 5/3/2011
Model: IGRF2010

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	
4485.44	7.28	345.44	4484.13	29.82	-7.74	1.50	345.44	30.81	
5632.42	7.28	345.44	5621.87	170.53	-44.28	0.00	0.00	176.18	
6117.86	0.00	0.00	6106.00	200.34	-52.02	1.50	180.00	206.99	
8517.86	0.00	0.00	8506.00	200.34	-52.02	0.00	0.00	206.99	16-6-45 BTR PBHL



Sharewell
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Well #1 - 16' KB
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6053.00ft
Project:	Duchesne County, UT [NAD27]	MD Reference:	KB @ 6053.00ft
Site:	16-6D-45 BTR	North Reference:	True
Well:	Well #1 - 16' KB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 03may11 rbw		

Project	Duchesne County, UT [NAD27]		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	16-6D-45 BTR				
Site Position:	Northing:	665,640.29 usft	Latitude:	40° 9' 23.22 N	
From:	Lat/Long	Easting:	2,283,538.84 usft	Longitude:	110° 29' 7.98 W
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft	Grid Convergence:	0.65 °

Well	Well #1 - 16' KB					
Well Position	+N/-S	0.00 ft	Northing:	665,640.29 usft	Latitude:	40° 9' 23.22 N
	+E/-W	0.00 ft	Easting:	2,283,538.84 usft	Longitude:	110° 29' 7.98 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	6,037.00 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/3/2011	11.52	65.81	52,278

Design	plan1 03may11 rbw			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	345.44

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4,485.44	7.28	345.44	4,484.13	29.82	-7.74	1.50	1.50	0.00	345.44	
5,632.42	7.28	345.44	5,621.87	170.53	-44.28	0.00	0.00	0.00	0.00	
6,117.86	0.00	0.00	6,106.00	200.34	-52.02	1.50	-1.50	0.00	180.00	
8,517.86	0.00	0.00	8,506.00	200.34	-52.02	0.00	0.00	0.00	0.00	16-6-45 BTR PBHL

Sharewell
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Well #1 - 16' KB
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6053.00ft
Project:	Duchesne County, UT [NAD27]	MD Reference:	KB @ 6053.00ft
Site:	16-6D-45 BTR	North Reference:	True
Well:	Well #1 - 16' KB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 03may11 rbw		

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)	
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50										
4,100.00	1.50	345.44	4,099.99	1.27	-0.33	1.31	1.50	1.50	0.00	
4,200.00	3.00	345.44	4,199.91	5.07	-1.32	5.23	1.50	1.50	0.00	
4,300.00	4.50	345.44	4,299.69	11.40	-2.96	11.77	1.50	1.50	0.00	
4,400.00	6.00	345.44	4,399.27	20.25	-5.26	20.92	1.50	1.50	0.00	
4,485.44	7.28	345.44	4,484.13	29.82	-7.74	30.81	1.50	1.50	0.00	
Start 1146.98 hold at 4485.44 MD										
4,500.00	7.28	345.44	4,498.58	31.60	-8.21	32.65	0.00	0.00	0.00	
4,600.00	7.28	345.44	4,597.77	43.87	-11.39	45.33	0.00	0.00	0.00	
4,700.00	7.28	345.44	4,696.96	56.14	-14.58	58.00	0.00	0.00	0.00	
4,800.00	7.28	345.44	4,796.16	68.41	-17.76	70.67	0.00	0.00	0.00	
4,820.00	7.28	345.44	4,816.00	70.86	-18.40	73.21	0.00	0.00	0.00	
TGR3										
4,900.00	7.28	345.44	4,895.35	80.67	-20.95	83.35	0.00	0.00	0.00	
5,000.00	7.28	345.44	4,994.54	92.94	-24.13	96.02	0.00	0.00	0.00	
5,100.00	7.28	345.44	5,093.74	105.21	-27.32	108.70	0.00	0.00	0.00	
5,200.00	7.28	345.44	5,192.93	117.48	-30.50	121.37	0.00	0.00	0.00	
5,300.00	7.28	345.44	5,292.13	129.75	-33.69	134.05	0.00	0.00	0.00	
5,400.00	7.28	345.44	5,391.32	142.01	-36.87	146.72	0.00	0.00	0.00	
5,500.00	7.28	345.44	5,490.51	154.28	-40.06	159.40	0.00	0.00	0.00	
5,600.00	7.28	345.44	5,589.71	166.55	-43.24	172.07	0.00	0.00	0.00	
5,632.42	7.28	345.44	5,621.87	170.53	-44.28	176.18	0.00	0.00	0.00	
Start Drop -1.50										
5,700.00	6.27	345.44	5,688.97	178.24	-46.28	184.15	1.50	-1.50	0.00	
5,702.04	6.24	345.44	5,691.00	178.46	-46.34	184.37	1.50	-1.50	0.00	
Douglas Creek										
5,800.00	4.77	345.44	5,788.51	187.55	-48.70	193.77	1.50	-1.50	0.00	
5,900.00	3.27	345.44	5,888.26	194.33	-50.46	200.77	1.50	-1.50	0.00	
6,000.00	1.77	345.44	5,988.16	198.58	-51.56	205.17	1.50	-1.50	0.00	
6,100.00	0.27	345.44	6,088.14	200.30	-52.01	206.94	1.50	-1.50	0.00	
6,117.86	0.00	0.00	6,106.00	200.34	-52.02	206.99	1.50	-1.50	0.00	
Start 2400.00 hold at 6117.86 MD - 3PT Marker										
6,200.00	0.00	0.00	6,188.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,300.00	0.00	0.00	6,288.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,400.00	0.00	0.00	6,388.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,500.00	0.00	0.00	6,488.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,547.86	0.00	0.00	6,536.00	200.34	-52.02	206.99	0.00	0.00	0.00	
Black Shale										
6,600.00	0.00	0.00	6,588.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,700.00	0.00	0.00	6,688.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,777.86	0.00	0.00	6,766.00	200.34	-52.02	206.99	0.00	0.00	0.00	
Castle Peak										
6,800.00	0.00	0.00	6,788.14	200.34	-52.02	206.99	0.00	0.00	0.00	
6,900.00	0.00	0.00	6,888.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,000.00	0.00	0.00	6,988.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,087.86	0.00	0.00	7,076.00	200.34	-52.02	206.99	0.00	0.00	0.00	
Uteland Butte										
7,100.00	0.00	0.00	7,088.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,112.86	0.00	0.00	7,101.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR1										
7,200.00	0.00	0.00	7,188.14	200.34	-52.02	206.99	0.00	0.00	0.00	

Sharewell
 Planning Report


Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Well #1 - 16' KB
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6053.00ft
Project:	Duchesne County, UT [NAD27]	MD Reference:	KB @ 6053.00ft
Site:	16-6D-45 BTR	North Reference:	True
Well:	Well #1 - 16' KB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 03may11 rbw		

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)	
7,300.00	0.00	0.00	7,288.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,317.86	0.00	0.00	7,306.00	200.34	-52.02	206.99	0.00	0.00	0.00	
Wasatch										
7,400.00	0.00	0.00	7,388.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,432.86	0.00	0.00	7,421.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR2										
7,500.00	0.00	0.00	7,488.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,600.00	0.00	0.00	7,588.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,700.00	0.00	0.00	7,688.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,712.86	0.00	0.00	7,701.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR3										
7,800.00	0.00	0.00	7,788.14	200.34	-52.02	206.99	0.00	0.00	0.00	
7,900.00	0.00	0.00	7,888.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,000.00	0.00	0.00	7,988.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,027.86	0.00	0.00	8,016.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR4										
8,100.00	0.00	0.00	8,088.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,200.00	0.00	0.00	8,188.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,267.86	0.00	0.00	8,256.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR4A										
8,300.00	0.00	0.00	8,288.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,367.86	0.00	0.00	8,356.00	200.34	-52.02	206.99	0.00	0.00	0.00	
CR5										
8,400.00	0.00	0.00	8,388.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,500.00	0.00	0.00	8,488.14	200.34	-52.02	206.99	0.00	0.00	0.00	
8,517.86	0.00	0.00	8,506.00	200.34	-52.02	206.99	0.00	0.00	0.00	
TD at 8517.86 - 16-6-45 BTR PBHL										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
16-6-45 BTR PBHL	0.00	0.00	8,506.00	200.34	-52.02	665,840.03	2,283,484.55	40° 9' 25.20 N	110° 29' 8.65 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Rectangle (sides W200.00 H200.00 D2,400.00)										

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well Well #1 - 16' KB
Company:	Bill Barrett Corp.	TVD Reference:	KB @ 6053.00ft
Project:	Duchesne County, UT [NAD27]	MD Reference:	KB @ 6053.00ft
Site:	16-6D-45 BTR	North Reference:	True
Well:	Well #1 - 16' KB	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	plan1 03may11 rbw		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,091.00	2,091.00	Red One		0.00		
2,991.00	2,991.00	Green River		0.00		
3,666.00	3,666.00	Mahogany		0.00		
4,820.00	4,816.00	TGR3		0.00		
5,702.04	5,691.00	Douglas Creek		0.00		
6,117.86	6,106.00	3PT Marker		0.00		
6,547.86	6,536.00	Black Shale		0.00		
6,777.86	6,766.00	Castle Peak		0.00		
7,087.86	7,076.00	Uteland Butte		0.00		
7,112.86	7,101.00	CR1		0.00		
7,317.86	7,306.00	Wasatch		0.00		
7,432.86	7,421.00	CR2		0.00		
7,712.86	7,701.00	CR3		0.00		
8,027.86	8,016.00	CR4		0.00		
8,267.86	8,256.00	CR4A		0.00		
8,367.86	8,356.00	CR5		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
4,000.00	4,000.00	0.00	0.00	Start Build 1.50	
4,485.44	4,484.13	29.82	-7.74	Start 1146.98 hold at 4485.44 MD	
5,632.42	5,621.87	170.53	-44.28	Start Drop -1.50	
6,117.86	6,106.00	200.34	-52.02	Start 2400.00 hold at 6117.86 MD	
8,517.86	8,506.00	200.34	-52.02	TD at 8517.86	



August 1, 2011

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

Re: Directional Drilling R649-3-11
Blacktail Ridge Area #16-6D-45 BTR Well
Surface: 608' FSL & 756' FEL, SESE, 6-T4S-R5W, USM
Bottom Hole: 810' FSL & 810' FEL, SESE, 6-T4S-R5W, USM
Duchesne County, Utah

Dear Ms. Mason,

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

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

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

Sincerely,

A handwritten signature in blue ink that reads 'Venessa Langmacker' with 'for' written below it.

David Watts
Landman

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

Aug. 01, 2011

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

FEB 24 2011

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H626296
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: ELAINE WINICK E-Mail: ewinick@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. 16-6-45 BTR
3b. Phone No. (include area code) Ph: 303-312-8168 Fx: 303-291-0420		9. API Well No. 43-013-50610
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 608FSL 756FEL At proposed prod. zone SESE 608FSL 756FEL		10. Field and Pool, or Exploratory ALTAMONT/WASATCH
14. Distance in miles and direction from nearest town or post office* 5.6 MILES SW OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 6 T4S R5W Mer UBM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 608	16. No. of Acres in Lease 593.90	12. County or Parish DUCHESNE
17. Spacing Unit dedicated to this well 160.00	13. State UT	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 2934
19. Proposed Depth 8800 MD 8800 TVD	20. BLM/BIA Bond No. on file LPM8874725	21. Elevations (Show whether DF, KB, RT, GL, etc.) 6037 GL
22. Approximate date work will start 08/01/2011	23. Estimated duration 60 DAYS (D&C)	

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) ELAINE WINICK Ph: 303-312-8168	Date 02/23/2011
--	--	--------------------

Title • SENIOR PERMIT ANALYST		
Approved by (Signature) <i>Naomi Hatch</i>	Name (Printed/Typed) <i>Naomi Hatch</i>	Date JUL 22 2011
Title <i>acting</i> 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.

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 #103153 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
Committed to AFMS for processing by ROBIN R. HANSEN on 02/28/2011 ()

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

11550539AE

NOS 11/1/2010

RECEIVED
AUG 15 2011
DIV. OF OIL, GAS & MINERAL



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: 16-6-45 BTR
API No: 43-013-50610

Location: SESE, Sec. 6 T4S R5W
Lease No: 14-20-H62-6296
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: 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.
- Silt Fence required at pad corners 1 and 2 for minor drainage, this will help keep soils on location.
- Topsoil storage for 5-18D-45 BTR must be moved from corner # 8 to corner #1.
- See Exhibit One of the approved EA U&O-FY11-Q2-041 for additional mitigation measures that must be followed for each of the proposed well locations.

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:

- Production casing cement shall be brought up and into the surface casing. The minimum cement top is 200 ft. above the surface casing shoe.
- Contingency, for casing production (partial) liner installation, casing liner is to be installed and tested to the standards of Onshore Orders #2. The operator specified casing liner lap overlap interval length is 200 ft.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. 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.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and

Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

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

Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6296	
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: 16-6D-45 BTR		
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506100000		
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALMAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 8/26/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input 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.			
This well was spud on 8/26/2011 at 10:00 am by Triple A Drilling.			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</p>			
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE N/A	DATE 8/29/2011		

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A
 Submitted By Venessa Langmach Phone Number 303-312-8172
 Well Name/Number 16-6D-45 BTR
 Qtr/Qtr SE SE Section 6 Township 4S Range 5W
 Lease Serial Number 1420H626296
 API Number 4301350610

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

Date/Time 8/26/2011 8:00 AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

AUG 23 2011

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

BOPE

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

Date/Time _____ AM PM

Remarks _____

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
4301333568	LC Tribal 1H-27-46		NWNW	27	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18175	8/25/2011		8/29/11		
Comments: Spudding Operation was conducted by Pete Martin Drilling at 11 am. NHORN = WSTC BHL = SWNW							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350574	5-7D-46 BTR		SWNW	7	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18176	8/25/2011		8/29/11		
Comments: Spudding Operation was conducted by Triple A Drilling at 11 am. GR-WS BHL = SWNW							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350610	16-6D-45 BTR		SESE	6	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18177	8/26/2011		8/29/11		
Comments: Spudding Operation was conducted by Triple A Drilling at 10:00 am. GR-WS							

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)

RECEIVED
AUG 29 2011

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

8/29/2011

Title

Date

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: 14-20-H62-6296
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: 16-6D-45 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506100000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 8/31/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <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"/> 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 type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
August 2011 Monthly Drilling Activity Report: well spud.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/6/2011	

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: 14-20-H62-6296
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		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 16-6D-45 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506100000	
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
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		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"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/30/2011	<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 style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. No September 2011 monthly drilling activity to report.		
<p style="font-size: large; margin: 0;">Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</p>		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 10/5/2011	

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: 14-20-H62-6296
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 06 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
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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: 10/31/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <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"/> 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 type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
No October 2011 Monthly Drilling Activity to report.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 11/3/2011	

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: 14-20-H62-6296
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		STATE: UTAH
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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: 11/30/2011	<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="text"/>
		<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
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
November 2011 Monthly Drilling Report attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 12/5/2011

**16-6D-45 BTR 11/19/2011 18:30 - 11/20/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:30	11.50	06:00	1	RIGUP & TEARDOWN	Rig Down / Prepare to Move - Trucks at 07:00, 11/20/2011

16-6D-45 BTR 11/20/2011 06:00 - 11/21/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	1	RIGUP & TEARDOWN	Continue to Rig Down for Move
07:00	12.50	19:30	1	RIGUP & TEARDOWN	Trucks arrived at 07:00 hrs - Hold Pre-Job Safety Meeting - Move Rig
19:30	10.50	06:00	1	RIGUP & TEARDOWN	Shut Down For the Night - Rigged Down 100% - Moved 100% - Set In 75% - Rigged Up 30% - Mud Pits Set and Derrick on Headache Rack - Camp 100%

16-6D-45 BTR 11/21/2011 06:00 - 11/22/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	1	RIGUP & TEARDOWN	Shut Down For Night
07:00	3.00	10:00	1	RIGUP & TEARDOWN	Trucks Arrive at 0700 hrs - PJSM/ Continue to Set In and Rig Up - Release Trucks at 10:00 hrs.
10:00	9.00	19:00	1	RIGUP & TEARDOWN	Continue to Rig Up and Prepare to Spud - Raise Derrick at 11:30 hrs.
19:00	3.50	22:30	1	RIGUP & TEARDOWN	Finish Rigging up Drill Floor - Install Rat Hole and Mouse Hole - Nipple Up Conductor - Mix Spud Mud
22:30	2.50	01:00	6	TRIPS	PU Bit - Mud Mtr - 3 pt Reamer - NMDC and Kelly - Trip in Hole w/same.
01:00	0.50	01:30	2	DRILL ACTUAL	Control Drill until BHA outside of Conductor
01:30	4.50	06:00	8	REPAIR RIG	Repair No. 2 Mud Pump Module - Leaking

16-6D-45 BTR 11/22/2011 06:00 - 11/23/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	Drill Ahead - Sliding to maintain Angle and Azimuth as per program
07:30	1.00	08:30	10	DEVIATION SURVEY	Attempt to take Survey - Wrong Stop Ring on MWD Tool - Change out tool
08:30	6.00	14:30	2	DRILL ACTUAL	Continue to Drill and Survey Ahead - Sliding as required.'
14:30	1.00	15:30	8	REPAIR RIG	Repair Rotary Chain
15:30	1.00	16:30	2	DRILL ACTUAL	Continue to Drill and Survey Ahead - Sliding as Required

16-6D-45 BTR 11/23/2011 06:00 - 11/24/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drilling and Survey Ahead - Sliding as Required.

16-6D-45 BTR 11/24/2011 06:00 - 11/25/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.00	21:00	2	DRILL ACTUAL	Drill and Survey Ahead - Pumping Sweeps and Sliding as Required.
21:00	1.00	22:00	5	COND MUD & CIRC	Circulate and Cond Hole while building Dry Pipe Slug
22:00	3.00	01:00	6	TRIPS	Pump Slug - POOH to change bit and check BHA
01:00	2.00	03:00	6	TRIPS	Change Bit - Check BHA - Trip in Hole to Drill Ahead
03:00	3.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding and Pumping Sweeps as Required

16-6D-45 BTR 11/25/2011 06:00 - 11/26/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding and Pumping Sweeps as required. TD Surface Hole at 2508'	
17:00	1.50	18:30	5	COND MUD & CIRC	Circulate and Condition for Wiper Trip - Build Hi-Vis Pill.	
18:30	2.00	20:30	6	TRIPS	Wiper Trip - 5 stands - No Fill	
20:30	1.50	22:00	5	COND MUD & CIRC	Circulate Hole Volume - Spot Hi-Vis Pill - Build and Pump Dry Pipe Slug	
22:00	5.00	03:00	6	TRIPS	POOH for Casing - SLM - Lay Down 3 pt. Reamers and Mud Motor.	
03:00	3.00	06:00	12	RUN CASING & CEMENT	Rig Up Casing Running Equipment - PJSM - Run 25 of 56 Jts of 10 3/4", 45.5 ppg, J-55, BTC Casing. Baker Lok - Flt Shoe, Flt Clr and 2 Jts above Flt Clr.	

16-6D-45 BTR 11/26/2011 06:00 - 11/27/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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 Running a total of 56 Jts, 10 3/4", 45.5 ppg, J-55, BTC Csg. Shoe at 2507'.	
09:00	1.50	10:30	5	COND MUD & CIRC	Circ Casing Volume - Rig Up Cementing Equipment and Test same to 5000 psi.- PJSM	
10:30	3.50	14:00	12	RUN CASING & CEMENT	Mix and Pump Cement as follows: 710 sxs of Class H cement, w/19.43 gps FW, w/0.125 lb/sk Pol-E-Flake, w/0.250 lb/sk Kwik Seal, makes 400 bbls of 11 ppg slurry that ylds 3.19 cuft/sk, as Lead - 410 sxs of Holcim 11/V, w/6.42 gps FW, w/0.125 lb/sk Pol-E-Flake makes 97 bbls of 14.8 ppg slurry that ylds 1.33 cuft/sk, as Tail - Displace w/236 bbls of 9.1 ppg mud.- displaced with 235.5 bbls of 9.1 ppg WBM.- Bumped Plug - increased pressure to 2000 psi.- bled pressure off w/2 bbls returned. Floats Held - full returns thru whole cement and displacement - 74 bbls of lead cmt to surface.	
14:00	3.00	17:00	13	WAIT ON CEMENT	Initially Cement fell back 60' - check every 30 min to see if cement continues to fall. Cement fell a total of 80 ft. in 2 hrs. then stopped.	
17:00	2.00	19:00	13	WAIT ON CEMENT	Top Job Cement - fill casing x conductor annulus: 50 sxs Class G neat, w/4.95 GPS FW. w/2% CaCl ₂ , made 10 bls of 15.8 ppg Slurry. Wait 1 hr, clean pits.	
19:00	3.00	22:00	21	OPEN	Release Riser - slack off Casing - raise riser and make rough cut. Remove cut-off and riser.	
22:00	4.00	02:00	22	OPEN	Make final cut and weld on Cameron 11" x 5K Wellhead - Allow Head to cool.- test same for 30 min with N2.	
02:00	4.00	06:00	14	NIPPLE UP B.O.P	Nipple Up BOPE, - Choke and Kill Lines.	

16-6D-45 BTR 11/27/2011 06:00 - 11/28/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	15	TEST B.O.P	Test BOP's. Test pipe rams and blind rams to 250 psig low/5000 psig high; annular preventer to 250 psig low/2500 psig high; Choke line, kill line, upper and lower kelly valves and safety valves to 250 psig low/5000 psig high. Test entire choke manifold including superchokes, HCR valve and all other valves to 250 psig low/5000 psig high. Test casing to 1500 psig for 30 minutes. All Test Good - Tester - B&C Quick Test, Inc (Paul Ocks)	
09:30	1.00	10:30	2	DRILL ACTUAL	Rig Down BOP test Equipment - Install Wear Bushing - Clean Rig Floor - Prepare to PU Bit and BHA	
10:30	3.00	13:30	6	TRIPS	PU Bit and Directional BHA - Scribe Tools - Test Motor and MWD - RIH w/Same - Tag Cement at 2449'.	
13:30	3.50	17:00	2	DRILL ACTUAL	PU Kelly - Wash Cmt to top of Plug at 2457' - Drill Plug - Flt Clr - Cmt - Flt Shoe and 16' of New formation to 2524'	
17:00	0.50	17:30	15	TEST B.O.P	Spot 60 bbls of Hi-Vis/LCM pill on Btm - POOH to Shoe - Close Pipe Rams (BOP Drill) - Pressure up on formation to conduct a FIT to EMW of 10.5 ppg - w/290 psi. - Bleed off Pressure.	
17:30	0.50	18:00	2	DRILL ACTUAL	Rig Service	
18:00	12.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as Required to follow plan.	

16-6D-45 BTR 11/28/2011 06:00 - 11/29/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drill and Survey ahead - Sliding as Required to follow plan. - pumping LCM Sweeps as needed to control seepage

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp. Rig Name/# Patterson Rig 506
Submitted By Rich Dembowski Phone Number 435-828-6095
Well Name/Number 16-6D-45 BTR
Qtr/Qtr SE/SE Section 6 Township 4S Range 5W
Lease Serial Number 1420H626265
API Number 43-013-50610

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 12/5/11 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 06 2011

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks Estimated date and time based on current conditions.

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: 14-20-H62-6296
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: 16-6D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43013506100000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALMAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 12/31/2011	<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="text"/>
		<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
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Attached is the December 2011 monthly drilling report for this well.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 1/5/2012

**16-6D-45 BTR 12/1/2011 06:00 - 12/2/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as required to follow plan - Maintain Mud System consistent with Depth. Drill/slide from 6296' to 6518'.
12:30	0.50	13:00	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams.
13:00	17.00	06:00	2	DRILL ACTUAL	Drill/slide from 6518' to 7039'. F/T pipe rams.

16-6D-45 BTR 12/2/2011 06:00 - 12/3/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/slide from 7039' to 7313'. Hole taking fluid. Rebuild LCM to 20%+ while drilling with reduced pump rate. Hole stable, increase LCM to 25% while bringing MW to 9.6+ ppg. Bring up pump rates.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams.
16:30	4.00	20:30	2	DRILL ACTUAL	Drill/slide from 7313' to 7455'. Well started flowing during slide at 7455'. MW 9.6+9.7 ppg w/28% LCM. Well blowing thru rotating head rubber. SI well and check pressure.
20:30	3.00	23:30	5	COND MUD & CIRC	Gas kick while sliding. SIDPP 75 psig. Bring pump to SPR and put well on choke. Bring MW to 9.8+9.9 ppg. Circ out 1 complete hole volume plus 1500 strokes. MW 9.8+ w/30% LCM. Check for flow. No flow. Well dead.
23:30	1.00	00:30	21	C/O ROTATING HEAD RUBBER	Change out rotating head rubber.
00:30	5.50	06:00	2	DRILL ACTUAL	Drill/slide from 7455' to 7578'. Losing mud at 7505'. Hold MW at 9.8+ ppg out/9.8ppg in and build LCM to 32% in with 28% out. Drill at reduced pump rate while hole heals. Put both pumps on line at 7567'. MW: In 9.9 ppg w/30% LCM. MW : out: 9.9+ ppg with 28% LCM. Drilling ahead at report time.

16-6D-45 BTR 12/3/2011 06:00 - 12/4/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	Drill/slide from 7578' to 7580'. Lost 140 bbls mud to hole. Motor performing poorly with multiple differential spikes. PU x reduce pump rate x allow hole to heal.
06:30	3.00	09:30	5	COND MUD & CIRC	Build volume and bring LCM back to 32% w/9.8+9.9 ppg mud. PU pump rate and attempt to drill.
09:30	2.50	12:00	2	DRILL ACTUAL	Drill from 7580' to 7599'. Bit/motor quit., Build drill string volume of clean mud x displace DP and BHA.
12:00	6.00	18:00	6	TRIPS	Slug pipe and TOOH for new bit/motor. Motor bad, leaking at connections. Bit worn. PU new bit x motor. F/T blind rams while out of hole. 2 bbls to fill hole while well shut in to LD bit x motor (fluid level 21' down). Test motor in hole. TIH with new bit x motor.
18:00	7.50	01:30	6	TRIPS	TIH to 2500'. Pump 30 bbls pill of clean mud followed by active system mud. Circ BU. Load DP with clean mud. TIH to 5100'. Circ BU. Load DP with clean mud. TIH to TD and circ BU.
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/slide from 7599' to 7705'. Measure SPR and SPP.

16-6D-45 BTR 12/4/2011 06:00 - 12/5/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/slide from 7705' to 8074'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service. F/T pipe rams. Conduct BOP drill.
17:00	8.50	01:30	2	DRILL ACTUAL	Drill/slide from 8074' to 8527'.
01:30	4.00	05:30	5	COND MUD & CIRC	Circ BU. Make 10 stand STRIP. Circ hole clean. STRIP gas 7702 units. Slug pipe with clean mud.
05:30	0.50	06:00	6	TRIPS	TOOH to log.

16-6D-45 BTR 12/5/2011 06:00 - 12/6/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	POOH to run electric logs. LD MWD and motor/bit. SLM out of hole. F/T blind rams while out of hole.	
13:30	7.50	21:00	11	WIRELINE LOGS	Safety meeting with HES loggers. RU loggers. RIH. Loggers TD 8522'. Run Quad Combo. RD loggers.	
21:00	7.00	04:00	6	TRIPS	Pull wear bushing. PU bit x bit sub x stage in hole. Circ BU at surface shoe and 5100'. TIH to TD and C x C mud to run casing.	
04:00	2.00	06:00	5	COND MUD & CIRC	Circ x Cond mud to run casing. 6455 units max gas. Safety meeting with LD crew. RU LD crew.	

16-6D-45 BTR 12/6/2011 06:00 - 12/7/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.50	07:30	5	COND MUD & CIRC	Fill pipe with clean mud. Build slug and slug pipe.	
07:30	8.00	15:30	6	TRIPS	POOH, LDDP.	
15:30	10.00	01:30	12	RUN CASING & CEMENT	RU casing crew. Conduct safety meeting. PU x run 5-1/2", 17#, P110, LTC production casing. Well taking some fluid while running casing.	
01:30	2.50	04:00	5	COND MUD & CIRC	Fill pipe and break circulation. Partial returns, then loss of full returns. Reduce pump rate and attempt to regain returns. RU HES and conduct safety meeting.	
04:00	2.00	06:00	12	RUN CASING & CEMENT	Test lines to 5000 psig. Cement with the following: 5 bbl FW spacer, 40 bbl super flush, 5 bbl FW spacer, 415 bbls lead cement (1000 sxs) @ 11.0 ppg, 253 bbls tail cement (1000 sxs) @ 13.5 ppg. Pumping tail slurry at report time. No returns to this point in the job.	

16-6D-45 BTR 12/7/2011 06:00 - 12/7/2011 12:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.50	07:30	12	RUN CASING & CEMENT	Finish pumping tail slurry. Drop plug and displace casing with 196 bbls KCL water. Bump plug with 1550 psig, pressure to 3200 psig. Plug bumped 2 bbls early. Bled back 2 barrels. Floats held ok. MW in hole during job was 10.4 ppg. LCM concentration was 30%.	
07:30	2.00	09:30	13	WAIT ON CEMENT	Wait on cement. ND BOP's. Wash and flush flowline and stack.	
09:30	1.00	10:30	21	SET SLIPS	Set casing slips with 30K # over string weight. 135K string weight; 165K set in slips. Make rough cut. Install night cap.	
10:30	1.50	12:00	21	CLEAN MUD PITS	Clean mud pits. Release rig at 12:00 noon. Final report.	

16-6D-45 BTR 12/10/2011 06:00 - 12/11/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	Well shut in and location Secured.	
08:00		08:00			Safety meeting with contact personnel, Cleaned out Cellar Ring and Mouse holes, back filled with gravel, Check Surface casing & 5.5" for pressure, 0 psi on both side. N/D 11" night cap, Cleaned and dressed up 5.5" csg top, Set and N/U 11" x 7 1/16" 5k B-section with 2 1/16" x 5k gate valves. Tested hanger Seals to 5000 psi, good test. Secured Well head.	
08:00		08:00			Well shut in and location Secured.	

16-6D-45 BTR 12/11/2011 06:00 - 12/12/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

16-6D-45 BTR 12/12/2011 06:00 - 12/13/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

**16-6D-45 BTR 12/13/2011 06:00 - 12/14/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	Well shut in and secured.	
08:00	2.00	10:00	LOGG	Logging	SLB Arrived @ 08:00, safety meeting with SLB crew. RU SLB wire line to run cement bond log, P/up CBL/GR/CCL Logging tools, Started in the hole and switch board on operators control stop functioning, E-line unit was unable to go down or up with logging tools. Was able to drive truck forward 300' and Pulled logging tools out of the hole. Rig down logging truck, Waiting on new logging truck to perform CBL.	
10:00	7.50	17:30	GOP	General Operations	Construction crews set production Treater and production tanks. started moving in frac tanks. cleaned out 7 frac tanks on the 14-5 staging area.	
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	Secured location for the night.	

16-6D-45 BTR 12/14/2011 06:00 - 12/15/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	GOP	General Operations	WSI And Secured. Prod. Crews Working On Facilities. Bringing In Frac Tanks For Frac Line.	
10:00	3.00	13:00	LOGG	Logging	MIRU SLB W/L Crew. Hold Safety Meeting. P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 8354', FC At 8437', 83' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 8354', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-5-2011. Run Repeat Section From 8360 - 8150', Log Up Hole. Showed Real Good Bond From TD To 3880'(TOC), Ran WithOut Pressure. Found Short Joints At 8004 - 8024' And 7322 - 7343'. Pooh, RD Equipment, MOL.	
13:00	5.00	18:00	GOP	General Operations	Con't Spotting Tanks And Working On Facilities.	
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.	

16-6D-45 BTR 12/15/2011 06:00 - 12/16/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	Filling Frac Line With 3% KCL, Rigged Up Fall Protection, Set Frac Mandrel, Tester Had Problems, Will Test Seals In AM. Prod. Crews Working On Facilities.	

16-6D-45 BTR 12/16/2011 06:00 - 12/17/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	Tested Frac Mandrel Seals To 5000#, Set Frac Tree, Tested Casing/Tree To 8250#, Prod. Crews Working On Facilities. Set Open Tops And Storage Tanks. Filling Frac Line With 3% KCL.	

16-6D-45 BTR 12/22/2011 06:00 - 12/23/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.	
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting	
07:30	4.50	12:00	RUTB	Run Tubing	PU 4 3/4" Rock Bit & Tbg. Picked Up 257 Jts. SDFN. Had rig hand get hurt making up Kelly Valve to Power swivel, The accident was reported to safety personel and delt with accordingly.	
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure		

16-6D-45 BTR 12/23/2011 06:00 - 12/24/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.	
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:30	0.50	08:00	RUTB	Run Tubing	Cont. PU Tbg. Tag @ 8392',
08:00	0.50	08:30	SRIG	Rig Up/Down	RU Power Swivel,
08:30	2.00	10:30	CLN	Clean Out Hole	Drill out Cement above FC, Drill out FC +57' of shoe jt.New PBTD @ 8494', Circ. Clean w/ 3%.
10:30	1.00	11:30	SRIG	Rig Up/Down	RD Swivel, RD Pump,
11:30	3.50	15:00	PULT	Pull Tubing	Lay down Tbg.,
15:00	0.50	15:30	SRIG	Rig Up/Down	RD Tbg. equip. & work floor,
15:30	0.50	16:00	BOPR	Remove BOP's	ND BOP, NU Frac Tree,
16:00	0.50	16:30	SRIG	Rig Up/Down	RDMO w/o Rig & Equip.
16:30	13.50	06:00	LOCL	Lock Wellhead & Secure	WSI. SDFN.

16-6D-45 BTR 12/26/2011 06:00 - 12/27/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	PTST	Pressure Test	MIRU Cable Inc., Hold Safety Meeting, Torque Down Frac Mandrel And Frac Tree, Hook Up To Flow Cross Opposite FlowBack, Pressure Test Flow Line To Open Tops To 4500 Psi., Sand Trap To 800 Psi.
08:30	2.00	10:30	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment, Hold Safety Meeting. Rig - Up To Frac Tree With Lubricator, Pressure Test Lubricator To 4500 Psi.. HES Frac Crew Arriving On Location At 1200 Hrs., Start Rigging Up Equipment.
10:30	0.50	11:00	CTUW	W/L Operation	WireLine Arm Gun, Pick-Up, Nipple Up To Goat Head Connection.
11:00	1.84	12:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 8004 - 8024' And 7322 - 7343'. Drop Down To Depth And Shoot Stage 1 CR-4A/CR-4 Zone As Follows; 8135 - 36, 8157 - 58, 8170 - 71, 8189 - 90, 8202 - 03, 8227 - 28, 8240 - 41, 8263 - 64, 8288 - 89, 8299 - 8300, 8313 - 14, 8331 - 32, 8340 - 41, 8359 - 60, 8380 - 81, 8405 - 06, 8422 - 23. 51 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
12:50	4.16	17:00	GOP	General Operations	HES Finish Rigging Up, Prod. Crews Insulating Tank Battery. WSI And Secured.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.

16-6D-45 BTR 12/27/2011 06:00 - 12/28/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	COMPLETION	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.59	08:35	GOP	General Operations	HES Crew On Location At 0500 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Hold Safety Meeting. Ran QC On Fluid, Looks Good.
08:35	1.59	10:10	FRAC	Frac. Job	Open Well. ICP - 0 Psi. 14 Bbls. To Catch Fluid. Frac Stage 1. BreakDown At 9.5 Bpm And 2471 Psi.. Pump 3900 Gals. 15% HCL And 102 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilzed Rate 72.0 Bpm, Pressure 4020 Psi. ShutDown, Isip 2266 Psi., .71 F.G., 30/51 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad(Ran 16,396 Gals. Long Getting Good XLink), Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2430 Psi., .73 F.G.. Shut In Well. Total Clean Fluid 167,026 Gals./ 3977 Bbls. Total 20/40 SLC 173,200# BWTR 4130 Bbls. Avg. Rate 66.0 Bpm Max Rate 73.2 Bpm Avg. Pres 3402 Psi Max. Pres 4224 Psi
10:10	0.33	10:30	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.
10:30	1.33	11:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 8004 - 8024' And 7322 - 7343'. Drop Down To Depth, Set CBP At 8130'. Pull Up And Shoot Stage 2 CR-4/CR-3 Zone As Follows; 7921 - 22, 7936 - 37, 7954 - 55, 7985 - 86, 7999 - 8000, 8007 - 08, 8017 - 18, 8024 - 25, 8039 - 40, 8057 - 58, 8065 - 66, 8088 - 89, 8110 - 11. 39 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
11:50	0.17	12:00	GOP	General Operations	Turn Well Over To HES. Pressure Test To 8500 Psi., Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	1.58	13:35	FRAC	Frac. Job	Open Well. ICP - 2065 Psi. Frac Stage 2. BreakDown At 9.6 Bpm And 2257 Psi.. Pump 3900 Gals. 15% HCL And 78 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilized Rate 70.5 Bpm, Pressure 4300 Psi. ShutDown, Isip 2278 Psi., .72 F.G., 25/39 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad, Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2496 Psi., .75 F.G.. Shut In Well. Total Clean Fluid 150,557 Gals./ 3585 Bbls. Total 20/40 SLC 171,890# BWTR 3767 Bbls. Avg. Rate 67.7 Bpm Max Rate 73.3 Bpm Avg. Pres 3734 Psi Max. Pres 4745 Psi
13:35	0.25	13:50	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.
13:50	1.25	15:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 7322 - 7343'. Drop Down To Depth, Set CBP At 10720'. Pull Up And Shoot Stage 3 CR-3 Zone As Follows; 7719 - 20, 7727 - 28, 7738 - 39, 7756 - 57, 7773 - 74, 7790 - 91, 7808 - 09, 7829 - 30, 7851 - 52, 7867 - 68, 7884 - 86. 36 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
15:05	0.08	15:10	GOP	General Operations	Turn Well Over To HES. Pressure Test To 8500 Psi., Equalize To Well Pressure.
15:10	1.50	16:40	FRAC	Frac. Job	Open Well. ICP - 2130 Psi. Frac Stage 3. BreakDown At 19.6 Bpm And 627 Psi.. Pump 3600 Gals. 15% HCL And 72 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilized Rate 70.5 Bpm, Pressure 4028 Psi. ShutDown, Isip 2254 Psi., .73 F.G., 32/36 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad, Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2670 Psi., .78 F.G.. Shut In Well. Total Clean Fluid 144,514 Gals./3441 Bbls. Total 20/40 SLC 167,930# BWTR 3630 Bbls. Avg. Rate 70.2 Bpm Max Rate 71.2 Bpm Avg. Pres 3887 Psi Max. Pres 4304 Psi
16:40	0.25	16:55	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.
16:55	1.33	18:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 7322 - 7343'. Drop Down To Depth, Set CBP At 7702'. Pull Up And Shoot Stage 4 CR-2 Zone As Follows; 7510 - 11, 7519 - 20, 7529 - 30, 7549 - 50, 7559 - 60, 7566 - 67, 7577 - 78, 7591 - 92, 7607 - 08, 7623 - 24, 7649 - 50, 7672 - 73, 7686 - 87. 39 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
18:15	1.00	19:15	GOP	General Operations	HES And SLB ShutDown And Secure Equipment.
19:15	10.75	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Refill Frac Line, Refill/Heat Staging Area. SDFD.

16-6D-45 BTR 12/28/2011 06:00 - 12/29/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	GOP	General Operations	HES Arrived @ 05:00 hrs, Started pumps and frac equipment, Ran straps on Chemicals and fluids, Completed QA/QC bucket test on Gel-pro and Blender. Primed pumps, pressure tested treating iron. HSE treating iron would not hold a test, issues with stop valves on bled off manifold would not hold. Had to replace valves on bled off manifold.
07:30	0.50	08:00	SMTG	Safety Meeting	Safety meeting with all contractors on location. Reviewed JSA, PPE and discuss communication between all contractors. Safe zone and red zone, Spotting larger vehicles in tight quarters, suspended loads and working around explosives on location.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
08:00	2.00	10:00	FRAC	Frac. Job	<p>Pressure tested treating iron @ 9100 psi. Stg # 4 of 9, Zone Stg CR-2, Water Temp @ 66°. Open Well @ 08:00 Hrs, @ 1800 psi, 61 Surface and Frac Mandrel, 4 psi. Formation Break Down @ 10.8 bpm, 2895 psi. Started on 15%HCL @ 9.2 bpm 2188 psi, Pumped Bioballs @ 30.0 bpm 2188 psi. Total Bbls of 15% HCL Pump 92.3 bbls & Bio-Balls pumped 78</p> <p>Started on 3% KCL Slick Water pad @ 70.8 bpm, 5600 psi. Open Perforation= 21 out of 39 shots, ISIP = 2155 psi, .72 Frac Gradient. Started on X-link pad @ 70.3 bpm, 4344 psi. Start 2# Gal 20/40 CRC, 68.5 bpm, 3625 psi</p> <p>2# 68.4 bpm, 3625 psi 2# On perfs bpm 71.4 @ 3756 psi</p> <p>3# 71.1 bpm, 3774 psi 3# On perfs bpm 71.4 @ 3720 psi</p> <p>Seen a pressure spike on the tail end of 3#. Did not stg into 3.5# sand. Cut 3# sand early do to net pressure increase.</p> <p>On Flush @ 72.0 bpm, 4301 psi</p> <p>Open Perforation = 30 out of 39 shots, ISDP, 2366 psi, 0.75 Frac Gradient.</p> <p>Max Rate 72 bpm, Max Pressure 6243 psi.</p> <p>Avg Rate 70.6 bpm, Avg Pressure 4769 psi</p> <p>Total X-link fluids pumped: 48,527 gals</p> <p>Total Slick water Pad pumped: 70,229 gals</p> <p>Total fluid in bbls pumped: 2920 bbls</p> <p>Total 20/40 CRC Pumped = 95,700#</p> <p>Total 100 Mesh Sand Pumped:None. Only place 61% of prop in formation. did not pump 3.5# or 4# stages, do to pressure spike.</p>
10:00	1.50	11:30	PFRT	Perforating	<p>R/U E-line, P/up stg #5, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7502', with 1900 psi, pulled up and perforated stg #5 intervals from 7338' to 7486'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #5.</p>
11:30	1.50	13:00	FRAC	Frac. Job	<p>Pressure tested treating iron @ 8902 psi. Stg #5 of 9, Zone Stg Wasatch & CR-2, Water Temp @ 68°. Open Well @ 11:30 Hrs, @ 1639 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10.3 bpm, 1820 psi. Started on 15%HCL @ 10.0 bpm 1766 psi, Pumped Bioballs @30.0 bpm 2199 psi.Total Bbls of 15% HCL Pump 85.5 bbls & Bio-Balls pumped 72</p> <p>Started on 3% KCL Slick Water pad @ 70.9 bpm, 4566 psi, Open Perforation = 22 out of 36 shots, ISIP = 1864 psi, .69 Frac Gradient. Started on X-link pad @ 72.2 bpm, 3875 psi. Start 2#/ Gal 20/40 CRC 72.0 bpm, 3610 psi</p> <p>2# 70.4 bpm, 3920 psi 2# On perfs bpm 70.4 @ 3501 psi 20/40 CRC,</p> <p>3# 70.9 bpm, 3427 psi 3# On perfs bpm 71.1 @ 3193 psi 20/40 CRC, Switch to Prem White.</p> <p>3.5# 71.4 bpm, 3178 psi 3.5# On perfs bpm 71.4 @ 3029 psi</p> <p>4# 71.4 bpm, 3040 psi 4# On perfs bpm 71.4 @ 2944 psi</p> <p>On Flush @ 71.8 bpm, 3021 psi</p> <p>Final Injection, 72.4 bpm, 3329 psi</p> <p>Open Perforation = 36 out of 36 shots, ISDP, 2245 psi, 0.74 Frac Gradient.</p> <p>Max Rate 72 bpm, Max Pressure 5250 psi.</p> <p>Avg Rate 69 bpm, Avg Pressure 3579 psi</p> <p>Total X-link fluids pumped: 64,457 gals</p> <p>Total Slick water Pad pumped: 68,097 gals</p> <p>Total fluid in bbls pumped: 3246 bbls</p> <p>Total 20/40 CRC pumped: 52,600 lb</p> <p>Total Prem White Sand pumped, 20/40 = 103,900 lb.</p> <p>Total 100 Mesh Sand Pumped: None, Pumped job as designed. placed 100% of prop in formation.</p>
13:00	1.50	14:30	PFRT	Perforating	<p>R/U E-line, P/up stg #6, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7330', with 1800 psi, pulled up and perforated stg #6 intervals from 7135' to 7314'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #6.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:30	2.50	17:00	FRAC	Frac. Job	Pressure tested treating iron @ 8800 psi. grease insert on the night cap valve started to leak and would not hold a pressure test. Replaced night cap. Stg #6 of #9, Zone Stg, Castle Peak, Water Temp @ 68 *. Open Well @ 15:38 Hrs, @ 1850 psi, 49 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10.8 bpm, 1964 psi. Started on 15%HCL @ 10.0 bpm 1765 psi, Pumped Bioballs @ 30 bpm 2298 psi. Total Bbls of 15% HCL Pump 93.2 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 72.4 bpm, 3798 psi. Open Perforation = 26 out of 39 shots, ISIP = 1897 psi, .70 Frac Gradient. Started on X-link pad @ 70.6 bpm, 3677 psi. Start 1#/ Gal 100 mesh sand, 70.3 bpm, 3752 psi. Stg over to 1# ppg 20/40 Prem White sand. 1# 70.6 bpm, 3390 psi 1# On perms bpm 70.5 @ 3234 psi 2# 70.9 bpm, 3120 psi 2# On perms bpm 70.7 @ 3054 psi 3# 70.9 bpm, 3120 psi 3# On perms bpm 71.4 @ 2945 psi 3.5# 70.9 bpm, 2937 psi 3.5# On perms bpm 69.4 @ 2840 psi, Pump 26 lost rate due something stuck in the valves. 4# 69.6 bpm, 2746 psi 4# On perms bpm 69.4 @ 2787 psi On Flush @ 69.3 bpm, 2927 psi Final Injection, 68 bpm, 4169 psi Open Perforation = 36 out of 39 shots, ISDP, 2355 psi, 0.72 Frac Gradient. Max Rate 72 bpm, Max Pressure 5468 psi. Avg Rate 69.2 bpm, Avg Pressure 3361 psi Total X-link fluids pumped: 80,906 gals Total Slick water Pad pumped: 71046 gals Total fluid in bbls pumped: 3710 bbls Total Prem White Sand pumped, 20/40 = 166,700#, Total 100 Mesh Sand Pumped: 20,200#, Job was pumped as designed.
17:00	1.50	18:30	PFRT	Perforating	R/U E-line, P/up stg #7, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7122', with 1700 psi, pulled up and perforated stg #7 intervals from 7135' to 7314'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #7.
18:30	11.50	06:00	GOP	General Operations	Secured and freeze protected frac tree, continued to restock sand and water throughout the night.

16-6D-45 BTR 12/29/2011 06:00 - 12/30/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	HES Arrived @ 05:00 hrs, Started frac equipment, Ran QA/QC Checks on chemicals and fluids, primed pumps with 80° water, exposed treating iron with warm water. completed pressure test on treating iron.
06:30	0.50	07:00	SMTG	Safety Meeting	Safety meeting with all contractors on location. Reviewed JSA, PPE, and working around suspended loads. Identified red zones and muster points, using good communication at all times.
07:00	1.50	08:30	FRAC	Frac. Job	Pressure tested treating iron @ 9100 psi. good test. Stg #7 of 9, Zone Stg Castle Peak, Water Temp @ 66 *. Open Well @ 06:39 Hrs, @ 1600 psi, 84 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10 bpm, 1570 psi. Started on 15%HCL @ 10.0 bpm 1950 psi, Pumped Bioballs @ 30 bpm 2150 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 71.4 bpm, 4501 psi. Open Perforation = 22 out of 39 shots, ISIP = 1705 psi, .68 Frac Gradient. Started on X-link pad @ 71.8 bpm, 3338 psi. Start 1#/ Gal 100 mesh sand, 71.7 bpm, 3367 psi 1# 71.5 bpm, 3284 psi 1# On perms bpm 71.9 @ 3124 psi 2# 71.8 bpm, 3121 psi 2# On perms bpm 70.4 @ 2967 psi 3# 70.5 bpm, 2974 psi 3# On perms bpm 70.9 @ 2692 psi 3.5# 71.5 bpm, 2750 psi 3.5# On perms bpm 71.9 @ 2697 psi 4# 71.5 bpm, 2699 psi 4# On perms bpm 71.9 @ 2658 psi On Flush @ 70.4 bpm, 2804 psi Final Injection, 70.9 bpm, 2804 psi Open Perforation = 36 out of 39 shots, ISDP, 2003 psi, 0.73 Frac Gradient. Max Rate 73.1 bpm, Max Pressure 4895 psi. Avg Rate 70.1 bpm, Avg Pressure 3195 psi Total X-link fluids pumped: 76,407 gals Total Slick water Pad pumped: 67,328 gals Total fluid in bbls pumped: 3514 bbls Total Prem White Sand pumped, 20/40 = 147,635#, Total 100 Mesh Sand Pumped: 19,000#, Job was pumped as designed.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
08:30	1.50	10:00	PFRT	Perforating	R/U E-line, P/up stg #8, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6934', with 1400 psi, pulled up and perforated stg #8 intervals from 6765' to 6916'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #8.
10:00	1.50	11:30	FRAC	Frac. Job	Pressure tested treating iron @ 9010 psi. Good test, Stg #8 of 9, Zone Stg Castle Peak, Water Temp @ 68 *. Open Well @ 10:00 Hrs, @ 1293 psi, 30 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 20 bpm, 1683 psi. Started on 15%HCL @ 10.0 bpm 1480 psi, Pumped Bioballs @ 30.0 bpm 1909 psi. Total Bbls of 15% HCL Pump 93.2 bbls & Bio-Balls pumped 78 Started on 3% KCL Slick Water pad @ 73.3 bpm, 3349 psi. Open Perforation = 30 out of 36 shots, ISIP = 1468 psi, .66 Frac Gradient. Started on X-link pad @ 71.5 bpm, 3349 psi. Start 1#/ Gal 100 Mesh sand, 71.9 bpm, 3425 psi 1# 71.5 bpm, 3319 psi 1# On perms bpm 71.5 @ 3198 psi 2# 71.5 bpm, 3192 psi 2# On perms bpm 71.5 @ 3024 psi 3# 71.5 bpm, 3036 psi 3# On perms bpm 71.2 @ 2870 psi 3.5# 71.9 bpm, 2819 psi 3.5# On perms bpm 71.9 @ 2676 psi 4# 71.9 bpm, 2719 psi 4# On perms bpm 71.9 @ 2676 psi On Flush @ 66 bpm, 2600 psi Final Injection, 70.0 bpm, 3031 psi Open Perforation = 36 out of 36 shots, ISDP 1906 psi, 0.72 Frac Gradient. Max Rate 73.4 bpm, Max Pressure 4546 psi. Avg Rate 69.3 bpm, Avg Pressure 3119 psi Total X-link fluids pumped: 66,153 gals Total Slick water Pad pumped: 58,153 gals Total fluid in bbls pumped: 3063 bbls Total Prem White Sand pumped, 20/40 = 133,300#, Total 100 Mesh Sand Pumped: 16,500#
11:30	1.50	13:00	PFRT	Perforating	R/U E-line, P/up stg #9, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6746', with 1420 psi, pulled up and perforated stg #9 intervals from 6574' to 6730'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #9.
13:00	1.50	14:30	FRAC	Frac. Job	Pressure tested treating iron @ 8900 psi. Stg #9 of 9, Zone Stg Black Shale, Water Temp @ 68 *. Open Well @ 13:12 Hrs, @ 1350 psi, 89 Surface and Frac Mandrel, 0 psi Formation Break Down @ 5.9 bpm, 1879 psi. Started on 15%HCL @ 8.8 bpm 1466 psi, Pumped Bioballs @ 30.7 bpm 1872 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 71.4 bpm, 3435 psi. Open Perforation = 29 out of 39 shots, ISIP = 1570 psi, .68 Frac Gradient Started on X-link pad @ 72.0 bpm, 3327 psi. Start 1#/ Gal 100 mesh sand, 71.6 bpm, 3376 psi 1# 71.9 bpm, 3233 psi 1# On perms bpm 71.9 @ 3139 psi 2# 71.9 bpm, 3135 psi 2# On perms bpm 72.0 @ 2952 psi 3# 71.9 bpm, 2974 psi 3# On perms bpm 72.0 @ 2771 psi 3.5# 72.0 bpm, 2750 psi 3.5# On perms bpm 72 @ 2685 psi 4# 72.0 bpm, 2688 psi 4# On perms bpm 72.0 @ 2625 psi On Flush @ 71.4 bpm, 2602 psi Final Injection, 70.8 bpm, 3122 psi Open Perforation = 39 out of 39 shots, ISDP psi, 0.XX Frac Gradient. Max Rate 74.0 bpm, Max Pressure 4124 psi. Avg Rate 70.2 bpm, Avg Pressure 3071 psi Total X-link fluids pumped: 54,555 gals Total Slick water Pad pumped: 64,238 gals Total fluid in bbls pumped: 2920 bbls Total Prem White Sand pumped, 20/40 = 120,760#, Total 100 Mesh Sand Pumped: 15,700#, Job was pumped as designed.
14:30	1.00	15:30	WLWK	Wireline	R/U E-line, RIH w/ 10K Fast Drill CBP, Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug / Kill Plug @ 6520', with 1400 psi. Pulled up and bled pressure off of csg, watched and verified static test on Kill plug. Pooh with E-line and monitored static test for 15 minutes. Good test on kill plug. L/D Setting and secured frac tree.
15:30	2.75	18:15	SRIG	Rig Up/Down	RDMO Halliburton and SLB, R/D water manifold and batch frac tanks for the work over.
18:15	11.75	06:00			Freeze protected frac tree with 50/50 methanol. Policed and prep location for work over rig.

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: 14-20-H62-6296	
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	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 16-6D-45 BTR	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013506100000	
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALMAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALMAMONT	
		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: 1/1/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input 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 01/01/12 and first oil sales on 01/04/12.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY			
NAME (PLEASE PRINT) Venessa Langmacher		PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A		DATE 1/5/2012	

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: 14-20-H62-6296
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
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: 16-6D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013506100000
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: 1/31/2012	<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"/> 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: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. January 2012 Monthly Drilling Report attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 06, 2012		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 2/6/2012	

**16-6D-45 BTR 1/1/2012 06:00 - 1/2/2012 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.																																																																																	
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting																																																																																	
07:30	1.00	08:30	GOP	General Operations	PU Hanger, Wash Bowl w/ 5 Bbls., Stage hanger thru BOP stack, Land hanger & Test. Land Tbg. as follows: Tubing Des: Tubing - Production Set Depth (ftKB): 6,502.7 Run Date: 2011/12/31 17:00 Pull Date: Tubing Components <table border="1"> <thead> <tr> <th>Jts (ft)</th> <th>Item Des Top (ftKB)</th> <th>OD (in) Btm (ftKB)</th> <th>ID (in)</th> <th>Wt (lb/ft)</th> <th>Grade</th> <th>Top Thread</th> <th>Len</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Tubing Hanger</td> <td>5</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>0.44</td> <td>0.4</td> </tr> <tr> <td>203</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>6,435.42</td> <td>0.4</td> <td></td> </tr> <tr> <td>1</td> <td>X Profile Nipple</td> <td>2 7/8</td> <td>2.313</td> <td>6.5</td> <td>L-80</td> <td>1.25</td> <td>6,435.90</td> </tr> <tr> <td>1</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>31.7</td> <td>6,437.10</td> <td></td> </tr> <tr> <td>1</td> <td>XN Nipple</td> <td>2 7/8</td> <td>2.205</td> <td>6.5</td> <td>L-80</td> <td>1.25</td> <td>6,468.80</td> </tr> <tr> <td>1</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>31.7</td> <td>6,470.10</td> <td></td> </tr> <tr> <td>1</td> <td>Pump Off Bit Sub</td> <td>3 1/8</td> <td>2.441</td> <td>6.5</td> <td></td> <td></td> <td>0.95</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6,501.80</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6,502.70</td> </tr> </tbody> </table>		Jts (ft)	Item Des Top (ftKB)	OD (in) Btm (ftKB)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len	1	Tubing Hanger	5	2.441	6.5	L-80	0.44	0.4	203	Tubing 2 7/8	2.441	6.5	L-80	6,435.42	0.4		1	X Profile Nipple	2 7/8	2.313	6.5	L-80	1.25	6,435.90	1	Tubing 2 7/8	2.441	6.5	L-80	31.7	6,437.10		1	XN Nipple	2 7/8	2.205	6.5	L-80	1.25	6,468.80	1	Tubing 2 7/8	2.441	6.5	L-80	31.7	6,470.10		1	Pump Off Bit Sub	3 1/8	2.441	6.5			0.95								6,501.80								6,502.70
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							6,502.70																																																																															
08:30	0.50	09:00	SRIG	Rig Up/Down	RD Tbg. equip. & work floor.																																																																																	
09:00	0.50	09:30	BOPR	Remove BOP's	ND BOP, NU Producton Tree. Tie in sand can From Tbg. to sales line.																																																																																	
09:30	0.50	10:00	GOP	General Operations	Drop ball, POB, & chase w/ 30 Bbls. @ 4.5 Bbls./min. Drain all fluid equip.																																																																																	
10:00	1.00	11:00	SRIG	Rig Up/Down	RDMO w/o Rig.																																																																																	
11:00	19.00	06:00	FBCK	Flowback Well	Put well on Production.																																																																																	
06:00		06:00																																																																																				

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: 14-20-H62-6296
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
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: 16-6D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 06 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013506100000
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: 2/1/2012	<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"/> CONVERT WELL TYPE	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<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 2012 monthly drilling activity report attached.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 06, 2012
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/5/2012	

**16-6D-45 BTR 11/19/2011 18:30 - 11/20/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:30	11.50	06:00	1	RIGUP & TEARDOWN	Rig Down / Prepare to Move - Trucks at 07:00, 11/20/2011

16-6D-45 BTR 11/20/2011 06:00 - 11/21/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	1	RIGUP & TEARDOWN	Continue to Rig Down for Move
07:00	12.50	19:30	1	RIGUP & TEARDOWN	Trucks arrived at 07:00 hrs - Hold Pre-Job Safety Meeting - Move Rig
19:30	10.50	06:00	1	RIGUP & TEARDOWN	Shut Down For the Night - Rigged Down 100% - Moved 100% - Set In 75% - Rigged Up 30% - Mud Pits Set and Derrick on Headache Rack - Camp 100%

16-6D-45 BTR 11/21/2011 06:00 - 11/22/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	1	RIGUP & TEARDOWN	Shut Down For Night
07:00	3.00	10:00	1	RIGUP & TEARDOWN	Trucks Arrive at 0700 hrs - PJSM/ Continue to Set In and Rig Up - Release Trucks at 10:00 hrs.
10:00	9.00	19:00	1	RIGUP & TEARDOWN	Continue to Rig Up and Prepare to Spud - Raise Derrick at 11:30 hrs.
19:00	3.50	22:30	1	RIGUP & TEARDOWN	Finish Rigging up Drill Floor - Install Rat Hole and Mouse Hole - Nipple Up Conductor - Mix Spud Mud
22:30	2.50	01:00	6	TRIPS	PU Bit - Mud Mtr - 3 pt Reamer - NMDC and Kelly - Trip in Hole w/same.
01:00	0.50	01:30	2	DRILL ACTUAL	Control Drill until BHA outside of Conductor
01:30	4.50	06:00	8	REPAIR RIG	Repair No. 2 Mud Pump Module - Leaking

16-6D-45 BTR 11/22/2011 06:00 - 11/23/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	2	DRILL ACTUAL	Drill Ahead - Sliding to maintain Angle and Azimuth as per program
07:30	1.00	08:30	10	DEVIATION SURVEY	Attempt to take Survey - Wrong Stop Ring on MWD Tool - Change out tool
08:30	6.00	14:30	2	DRILL ACTUAL	Continue to Drill and Survey Ahead - Sliding as required.'
14:30	1.00	15:30	8	REPAIR RIG	Repair Rotary Chain
15:30	1.00	16:30	2	DRILL ACTUAL	Continue to Drill and Survey Ahead - Sliding as Required

16-6D-45 BTR 11/23/2011 06:00 - 11/24/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drilling and Survey Ahead - Sliding as Required.

16-6D-45 BTR 11/24/2011 06:00 - 11/25/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.00	21:00	2	DRILL ACTUAL	Drill and Survey Ahead - Pumping Sweeps and Sliding as Required.
21:00	1.00	22:00	5	COND MUD & CIRC	Circulate and Cond Hole while building Dry Pipe Slug
22:00	3.00	01:00	6	TRIPS	Pump Slug - POOH to change bit and check BHA
01:00	2.00	03:00	6	TRIPS	Change Bit - Check BHA - Trip in Hole to Drill Ahead
03:00	3.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding and Pumping Sweeps as Required

16-6D-45 BTR 11/25/2011 06:00 - 11/26/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding and Pumping Sweeps as required. TD Surface Hole at 2508'	
17:00	1.50	18:30	5	COND MUD & CIRC	Circulate and Condition for Wiper Trip - Build Hi-Vis Pill.	
18:30	2.00	20:30	6	TRIPS	Wiper Trip - 5 stands - No Fill	
20:30	1.50	22:00	5	COND MUD & CIRC	Circulate Hole Volume - Spot Hi-Vis Pill - Build and Pump Dry Pipe Slug	
22:00	5.00	03:00	6	TRIPS	POOH for Casing - SLM - Lay Down 3 pt. Reamers and Mud Motor.	
03:00	3.00	06:00	12	RUN CASING & CEMENT	Rig Up Casing Running Equipment - PJSM - Run 25 of 56 Jts of 10 3/4", 45.5 ppg, J-55, BTC Casing. Baker Lok - Flt Shoe, Flt Clr and 2 Jts above Flt Clr.	

16-6D-45 BTR 11/26/2011 06:00 - 11/27/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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 Running a total of 56 Jts, 10 3/4", 45.5 ppg, J-55, BTC Csg. Shoe at 2507'.	
09:00	1.50	10:30	5	COND MUD & CIRC	Circ Casing Volume - Rig Up Cementing Equipment and Test same to 5000 psi.- PJSM	
10:30	3.50	14:00	12	RUN CASING & CEMENT	Mix and Pump Cement as follows: 710 sxs of Class H cement, w/19.43 gps FW, w/0.125 lb/sk Pol-E-Flake, w/0.250 lb/sk Kwik Seal, makes 400 bbls of 11 ppg slurry that ylds 3.19 cuft/sk, as Lead - 410 sxs of Holcim 11/V, w/6.42 gps FW, w/0.125 lb/sk Pol-E-Flake makes 97 bbls of 14.8 ppg slurry that ylds 1.33 cuft/sk, as Tail - Displace w/236 bbls of 9.1 ppg mud.- displaced with 235.5 bbls of 9.1 ppg WBM.- Bumped Plug - increased pressure to 2000 psi.- bled pressure off w/2 bbls returned. Floats Held - full returns thru whole cement and displacement - 74 bbls of lead cmt to surface.	
14:00	3.00	17:00	13	WAIT ON CEMENT	Initially Cement fell back 60' - check every 30 min to see if cement continues to fall. Cement fell a total of 80 ft. in 2 hrs. then stopped.	
17:00	2.00	19:00	13	WAIT ON CEMENT	Top Job Cement - fill casing x conductor annulus: 50 sxs Class G neat, w/4.95 GPS FW. w/2% CaCl2, made 10 bls of 15.8 ppg Slurry. Wait 1 hr, clean pits.	
19:00	3.00	22:00	21	OPEN	Release Riser - slack off Casing - raise riser and make rough cut. Remove cut-off and riser.	
22:00	4.00	02:00	22	OPEN	Make final cut and weld on Cameron 11" x 5K Wellhead - Allow Head to cool.- test same for 30 min with N2.	
02:00	4.00	06:00	14	NIPPLE UP B.O.P	Nipple Up BOPE, - Choke and Kill Lines.	

16-6D-45 BTR 11/27/2011 06:00 - 11/28/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	15	TEST B.O.P	Test BOP's. Test pipe rams and blind rams to 250 psig low/5000 psig high; annular preventer to 250 psig low/2500 psig high; Choke line, kill line, upper and lower kelly valves and safety valves to 250 psig low/5000 psig high. Test entire choke manifold including superchokes, HCR valve and all other valves to 250 psig low/5000 psig high. Test casing to 1500 psig for 30 minutes. All Test Good - Tester - B&C Quick Test, Inc (Paul Ocks)	
09:30	1.00	10:30	2	DRILL ACTUAL	Rig Down BOP test Equipment - Install Wear Bushing - Clean Rig Floor - Prepare to PU Bit and BHA	
10:30	3.00	13:30	6	TRIPS	PU Bit and Directional BHA - Scribe Tools - Test Motor and MWD - RIH w/Same - Tag Cement at 2449'.	
13:30	3.50	17:00	2	DRILL ACTUAL	PU Kelly - Wash Cmt to top of Plug at 2457' - Drill Plug - Flt Clr - Cmt - Flt Shoe and 16' of New formation to 2524'	
17:00	0.50	17:30	15	TEST B.O.P	Spot 60 bbls of Hi-Vis/LCM pill on Btm - POOH to Shoe - Close Pipe Rams (BOP Drill) - Pressure up on formation to conduct a FIT to EMW of 10.5 ppg - w/290 psi. - Bleed off Pressure.	
17:30	0.50	18:00	2	DRILL ACTUAL	Rig Service	
18:00	12.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as Required to follow plan.	

16-6D-45 BTR 11/28/2011 06:00 - 11/29/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	2	DRILL ACTUAL	Drill and Survey ahead - Sliding as Required to follow plan. - pumping LCM Sweeps as needed to control seepage

16-6D-45 BTR 11/29/2011 06:00 - 11/30/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as required to follow plan - pumping sweeps to control seepage.

16-6D-45 BTR 11/30/2011 06:00 - 12/1/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as needed to follow plan - Pumping Sweeps as required to control seepage.

16-6D-45 BTR 12/1/2011 06:00 - 12/2/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	2	DRILL ACTUAL	Drill and Survey Ahead - Sliding as required to follow plan - Maintain Mud System consistent with Depth. Drill/slide from 6296' to 6518'.
12:30	0.50	13:00	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams.
13:00	17.00	06:00	2	DRILL ACTUAL	Drill/slide from 6518' to 7039'. F/T pipe rams.

16-6D-45 BTR 12/2/2011 06:00 - 12/3/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/slide from 7039' to 7313'. Hole taking fluid. Rebuild LCM to 20%+ while drilling with reduced pump rate. Hole stable, increase LCM to 25% while bringing MW to 9.6+ ppg. Bring up pump rates.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service. BOP drill. F/T pipe rams.
16:30	4.00	20:30	2	DRILL ACTUAL	Drill/slide from 7313' to 7455'. Well started flowing during slide at 7455'. MW 9.6+/9.7 ppg W/28% LCM. Well blowing thru rotating head rubber. SI well and check pressure.
20:30	3.00	23:30	5	COND MUD & CIRC	Gas kick while sliding. SIDPP 75 psig. Bring pump to SPR and put well on choke. Bring MW to 9.8+/9.9 ppg. Circ out 1 complete hole volume plus 1500 strokes. MW 9.8+ w/30% LCM. Check for flow. No flow. Well dead.
23:30	1.00	00:30	21	C/O ROTATING HEAD RUBBER	Change out rotating head rubber.
00:30	5.50	06:00	2	DRILL ACTUAL	Drill/slide from 7455' to 7578'. Losing mud at 7505'. Hold MW at 9.8+ ppg out/9.8ppg in and build LCM to 32% in with 28% out. Drill at reduced pump rate while hole heals. Put both pumps on line at 7567'. MW: In 9.9 ppg w/30% LCM. MW : out: 9.9+ ppg with 28% LCM. Drilling ahead at report time.

16-6D-45 BTR 12/3/2011 06:00 - 12/4/2011 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	Drill/slide from 7578' to 7580'. Lost 140 bbls mud to hole. Motor performing poorly with multiple differential spikes. PU x reduce pump rate x allow hole to heal.
06:30	3.00	09:30	5	COND MUD & CIRC	Build volume and bring LCM back to 32% w/9.8+/9.9 ppg mud. PU pump rate and attempt to drill.
09:30	2.50	12:00	2	DRILL ACTUAL	Drill from 7580' to 7599'. Bit/motor quit., Build drill string volume of clean mud x displace DP and BHA.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
12:00	6.00	18:00	6	TRIPS	Slug pipe and TOOH for new bit/motor. Motor bad, leaking at connections. Bit worn. PU new bit x motor. F/T blind rams while out of hole. 2 bbls to fill hole while well shut in to LD bit x motor (fluid level 21' down). Test motor in hole. TIH with new bit x motor.	
18:00	7.50	01:30	6	TRIPS	TIH to 2500'. Pump 30 bbls pill of clean mud followed by active system mud. Circ BU. Load DP with clean mud. TIH to 5100'. Circ BU. Load DP with clean mud. TIH to TD and circ BU.	
01:30	4.50	06:00	2	DRILL ACTUAL	Drill/slide from 7599' to 7705'. Measure SPR and SPP.	

16-6D-45 BTR 12/4/2011 06:00 - 12/5/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	10.50	16:30	2	DRILL ACTUAL	Drill/slide from 7705' to 8074'.	
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service. F/T pipe rams. Conduct BOP drill.	
17:00	8.50	01:30	2	DRILL ACTUAL	Drill/slide from 8074' to 8527'.	
01:30	4.00	05:30	5	COND MUD & CIRC	Circ BU. Make 10 stand STRIP. Circ hole clean. STRIP gas 7702 units. Slug pipe with clean mud.	
05:30	0.50	06:00	6	TRIPS	TOOH to log.	

16-6D-45 BTR 12/5/2011 06:00 - 12/6/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	POOH to run electric logs. LD MWD and motor/bit. SLM out of hole. F/T blind rams while out of hole.	
13:30	7.50	21:00	11	WIRELINE LOGS	Safety meeting with HES loggers. RU loggers. RIH. Loggers TD 8522'. Run Quad Combo. RD loggers.	
21:00	7.00	04:00	6	TRIPS	Pull wear bushing. PU bit x bit sub x stage in hole. Circ BU at surface shoe and 5100'. TIH to TD and C x C mud to run casing.	
04:00	2.00	06:00	5	COND MUD & CIRC	Circ x Cond mud to run casing. 6455 units max gas. Safety meeting with LD crew. RU LD crew.	

16-6D-45 BTR 12/6/2011 06:00 - 12/7/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	5	COND MUD & CIRC	Fill pipe with clean mud. Build slug and slug pipe.	
07:30	8.00	15:30	6	TRIPS	POOH, LDDP.	
15:30	10.00	01:30	12	RUN CASING & CEMENT	RU casing crew. Conduct safety meeting. PU x run 5-1/2", 17#, P110, LTC production casing. Well taking some fluid while running casing.	
01:30	2.50	04:00	5	COND MUD & CIRC	Fill pipe and break circulation. Partial returns, then loss of full returns. Reduce pump rate and attempt to regain returns. RU HES and conduct safety meeting.	
04:00	2.00	06:00	12	RUN CASING & CEMENT	Test lines to 5000 psig. Cement with the following: 5 bbl FW spacer, 40 bbl super flush, 5 bbl FW spacer, 415 bbls lead cement (1000 sxs) @ 11.0 ppg, 253 bbls tail cement (1000 sxs) @ 13.5 ppg. Pumping tail slurry at report time. No returns to this point in the job.	

16-6D-45 BTR 12/7/2011 06:00 - 12/7/2011 12:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	12	RUN CASING & CEMENT	Finish pumping tail slurry. Drop plug and displace casing with 196 bbls KCL water. Bump plug with 1550 psig, pressure to 3200 psig. Plug bumped 2 bbls early. Bled back 2 barrels. Floats held ok. MW in hole during job was 10.4 ppg. LCM concentration was 30%.	
07:30	2.00	09:30	13	WAIT ON CEMENT	Wait on cement. ND BOP's. Wash and flush flowline and stack.	
09:30	1.00	10:30	21	SET SLIPS	Set casing slips with 30K # over string weight. 135K string weight; 165K set in slips. Make rough cut. Install night cap.	
10:30	1.50	12:00	21	CLEAN MUD PITS	Clean mud pits. Release rig at 12:00 noon. Final report.	

**16-6D-45 BTR 12/10/2011 06:00 - 12/11/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	Well shut in and location Secured.
08:00		08:00			Safety meeting with contact presonnel, Cleaned out Cellar Ring and Mouse holes, back filled with gravel, Check Surface casing & 5.5" for pressure, 0 psi on both side.N/D 11" night cap, Cleaned and dressed up 5.5" csg top, Set and N/U 11" x 7 1/16" 5k B-section with 2 1/16" x 5k gate valves. Tested hanger Seals to 5000 psi, good test. Secured Well head.
08:00		08:00			Well shut in and location Secured.

16-6D-45 BTR 12/11/2011 06:00 - 12/12/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

16-6D-45 BTR 12/12/2011 06:00 - 12/13/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

16-6D-45 BTR 12/13/2011 06:00 - 12/14/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	Well shut in and secured.
08:00	2.00	10:00	LOGG	Logging	SLB Arrived @ 08:00, safety meeting with SLB crew. RU SLB wire line to run cement bond log, P/up CBL/GR/CCL Logging tools, Started in the hole and switch board on operators control stop functioning, E-line unit was unable to go down or up with logging tools. Was able to drive truck forward 300' and Pulled logging tools out of the hole. Rig down logging truck, Waiting on new logging truck to perform CBL.
10:00	7.50	17:30	GOP	General Operations	Construction crews set production Treater and production tanks. started moving in frac tanks. cleaned out 7 frac tanks on the 14-5 staging area.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	Secured location for the night.

16-6D-45 BTR 12/14/2011 06:00 - 12/15/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	GOP	General Operations	WSI And Secured. Prod. Crews Working On Facilities. Bringing In Frac Tanks For Frac Line.
10:00	3.00	13:00	LOGG	Logging	MIRU SLB W/L Crew. Hold Safety Meeting. P/U Junk Basket/Gauge Ring, RIH, Tagged Up At 8354', FC At 8437', 83' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 8354', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-5-2011. Run Repeat Section From 8360 - 8150', Log Up Hole. Showed Real Good Bond From TD To 3880'(TOC), Ran WithOut Pressure. Found Short Joints At 8004 - 8024' And 7322 - 7343'. Pooh, RD Equipment, MOL.
13:00	5.00	18:00	GOP	General Operations	Con't Spotting Tanks And Working On Facilities.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

16-6D-45 BTR 12/15/2011 06:00 - 12/16/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	Filling Frac Line With 3% KCL, Rigged Up Fall Protection, Set Frac Mandrel, Tester Had Problems, Will Test Seals In AM. Prod. Crews Working On Facilities.

**16-6D-45 BTR 12/16/2011 06:00 - 12/17/2011 06:00**

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	Tested Frac Mandrel Seals To 5000#, Set Frac Tree, Tested Casing/Tree To 8250#, Prod. Crews Working On Facilities. Set Open Tops And Staorage Tanks. Filling Frac Line With 3% KCL.

16-6D-45 BTR 12/22/2011 06:00 - 12/23/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	4.50	12:00	RUTB	Run Tubing	PU 4 3/4" Rock Bit & Tbg. Picked Up 257 Jts. SDFN. Had rig hand get hurt making up Kelly Valve to Power swivel, The accident was reported to safety personel and delt with accordingly.
12:00	18.00	06:00	LOCL	Lock Wellhead & Secure	

16-6D-45 BTR 12/23/2011 06:00 - 12/24/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	0.50	08:00	RUTB	Run Tubing	Cont. PU Tbg. Tag @ 8392',
08:00	0.50	08:30	SRIG	Rig Up/Down	RU Power Swivel,
08:30	2.00	10:30	CLN	Clean Out Hole	Drill out Cement above FC, Drill out FC +57' of shoe jt.New PBSD @ 8494', Circ. Clean w/ 3%.
10:30	1.00	11:30	SRIG	Rig Up/Down	RD Swivel, RD Pump,
11:30	3.50	15:00	PULT	Pull Tubing	Lay down Tbg.,
15:00	0.50	15:30	SRIG	Rig Up/Down	RD Tbg. equip. & work floor,
15:30	0.50	16:00	BOPR	Remove BOP's	ND BOP, NU Frac Tree,
16:00	0.50	16:30	SRIG	Rig Up/Down	RDMO w/o Rig & Equip.
16:30	13.50	06:00	LOCL	Lock Wellhead & Secure	WSI. SDFN.

16-6D-45 BTR 12/26/2011 06:00 - 12/27/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	PTST	Pressure Test	MIRU Cable Inc., Hold Safety Meeting, Torque Down Frac Mandrel And Frac Tree, Hook Up To Flow Cross Opposite FlowBack, Pressure Test Flow Line To Open Tops To 4500 Psi., Sand Trap To 800 Psi.
08:30	2.00	10:30	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment, Hold Safety Meeting. Rig - Up To Frac Tree With Lubricator, Pressure Test Lubricator To 4500 Psi.. HES Frac Crew Arriving On Location At 1200 Hrs., Start Rigging Up Equipment.
10:30	0.50	11:00	CTUW	W/L Operation	WireLine Arm Gun, Pick-Up, Nipple Up To Goat Head Connection.
11:00	1.84	12:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 8004 - 8024' And 7322 - 7343'. Drop Down To Depth And Shoot Stage 1 CR-4A/CR-4 Zone As Follows; 8135 - 36, 8157 - 58, 8170 - 71, 8189 - 90, 8202 - 03, 8227 - 28, 8240 - 41, 8263 - 64, 8288 - 89, 8299 - 8300, 8313 - 14, 8331 - 32, 8340 - 41, 8359 - 60, 8380 - 81, 8405 - 06, 8422 - 23. 51 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
12:50	4.16	17:00	GOP	General Operations	HES Finish Rigging Up, Prod. Crews Insulating Tank Battery. WSI And Secured.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured.

16-6D-45 BTR 12/27/2011 06:00 - 12/28/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.59	08:35	GOP	General Operations	HES Crew On Location At 0500 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Hold Safety Meeting. Ran QC On Fluid, Looks Good.
08:35	1.59	10:10	FRAC	Frac. Job	Open Well. ICP - 0 Psi. 14 Bbls. To Catch Fluid. Frac Stage 1. BreakDown At 9.5 Bpm And 2471 Psi.. Pump 3900 Gals. 15% HCL And 102 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilized Rate 72.0 Bpm, Pressure 4020 Psi. ShutDown, Isip 2266 Psi., .71 F.G., 30/51 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad(Ran 16,396 Gals. Long Getting Good XLink), Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2430 Psi., .73 F.G.. Shut In Well. Total Clean Fluid 167,026 Gals./ 3977 Bbls. Total 20/40 SLC 173,200# BWTR 4130 Bbls. Avg. Rate 66.0 Bpm Max Rate 73.2 Bpm Avg. Pres 3402 Psi Max. Pres 4224 Psi
10:10	0.33	10:30	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.
10:30	1.33	11:50	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 8004 - 8024' And 7322 - 7343'. Drop Down To Depth, Set CBP At 8130'. Pull Up And Shoot Stage 2 CR-4/CR-3 Zone As Follows; 7921 - 22, 7936 - 37, 7954 - 55, 7985 - 86, 7999 - 8000, 8007 - 08, 8017 - 18, 8024 - 25, 8039 - 40, 8057 - 58, 8065 - 66, 8088 - 89, 8110 - 11. 39 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
11:50	0.17	12:00	GOP	General Operations	Turn Well Over To HES. Pressure Test To 8500 Psi., Equalize To Well Pressure.
12:00	1.58	13:35	FRAC	Frac. Job	Open Well. ICP - 2065 Psi. Frac Stage 2. BreakDown At 9.6 Bpm And 2257 Psi.. Pump 3900 Gals. 15% HCL And 78 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilized Rate 70.5 Bpm, Pressure 4300 Psi. ShutDown, Isip 2278 Psi., .72 F.G., 25/39 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad, Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2496 Psi., .75 F.G.. Shut In Well. Total Clean Fluid 150,557 Gals./ 3585 Bbls. Total 20/40 SLC 171,890# BWTR 3767 Bbls. Avg. Rate 67.7 Bpm Max Rate 73.3 Bpm Avg. Pres 3734 Psi Max. Pres 4745 Psi
13:35	0.25	13:50	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.
13:50	1.25	15:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 7322 - 7343'. Drop Down To Depth, Set CBP At 10720'. Pull Up And Shoot Stage 3 CR-3 Zone As Follows; 7719 - 20, 7727 - 28, 7738 - 39, 7756 - 57, 7773 - 74, 7790 - 91, 7808 - 09, 7829 - 30, 7851 - 52, 7867 - 68, 7884 - 86. 36 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
15:05	0.08	15:10	GOP	General Operations	Turn Well Over To HES. Pressure Test To 8500 Psi., Equalize To Well Pressure.
15:10	1.50	16:40	FRAC	Frac. Job	Open Well. ICP - 2130 Psi. Frac Stage 3. BreakDown At 19.6 Bpm And 627 Psi.. Pump 3600 Gals. 15% HCL And 72 BioBalls, Flush Away. Down 15 Min. For Balls To Fall. Bring Back Up To Rate, Stabilized Rate 70.5 Bpm, Pressure 4028 Psi. ShutDown, Isip 2254 Psi., .73 F.G., 32/36 Holes Open. Pump SlickWater Pad, Start XLink, Pump Pad, Stage Into 2,3,3.5 And 4# 20/40 SLC Stages Maintaining 20# Linear Gel. OverFlush Bottom Perf. Volume 15 Bbls., ShutDown. Isdp 2670 Psi., .78 F.G.. Shut In Well. Total Clean Fluid 144,514 Gals./3441 Bbls. Total 20/40 SLC 167,930# BWTR 3630 Bbls. Avg. Rate 70.2 Bpm Max Rate 71.2 Bpm Avg. Pres 3887 Psi Max. Pres 4304 Psi
16:40	0.25	16:55	CTUW	W/L Operation	Turn Well Over To W/L, Arm Gun, Pick-Up With Baker 20 Setting Kit And HES FAS Drill CBP, Nipple Up To Well. Equaize And Open.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
16:55	1.33	18:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes .Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 12-05-2011 And SLB CBL/CCL Dated 12-14-2011, Found And Correlated To Marker Joints At 7322 - 7343'. Drop Down To Depth, Set CBP At 7702'. Pull Up And Shoot Stage 4 CR-2 Zone As Follows; 7510 - 11, 7519 - 20, 7529 - 30, 7549 - 50, 7559 - 60, 7566 - 67, 7577 - 78, 7591 - 92, 7607 - 08, 7623 - 24, 7649 - 50, 7672 - 73, 7686 - 87. 39 Holes. POOH. Verify On Surface All Shots Fired, LD Spent Gun. WSI And Secured.
18:15	1.00	19:15	GOP	General Operations	HES And SLB ShutDown And Secure Equipment.
19:15	10.75	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Refill Frac Line, Refill/Heat Staging Area. SDFD.

16-6D-45 BTR 12/28/2011 06:00 - 12/29/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	GOP	General Operations	HES Arrived @ 05:00 hrs, Started pumps and frac equipment, Ran straps on Chemicals and fluids, Completed QA/QC bucket test on Gel-pro and Blender. Primed pumps, pressure tested treating iron. HSE treating iron would not hold a test, issues with stop valves on bled off manifold would not hold. Had to replace valves on bled off manifold.
07:30	0.50	08:00	SMTG	Safety Meeting	Safety meeting with all contractors on location. Reviewed JSA, PPE and discuss communication between all contractors. Safe zone and red zone, Spotting larger vehicles in tight quarters, suspended loads and working around explosives on location.
08:00	2.00	10:00	FRAC	Frac. Job	Pressure tested treating iron @ 9100 psi. Stg # 4 of 9, Zone Stg CR-2, Water Temp @ 66 *. Open Well @ 08:00 Hrs, @ 1800 psi, 61 Surface and Frac Mandrel, 4 psi. Formation Break Down @ 10.8 bpm, 2895 psi. Started on 15%HCL @ 9.2 bpm 2188 psi, Pumped Bioballs @ 30.0 bpm 2188 psi. Total Bbls of 15% HCL Pump 92.3 bbls & Bio-Balls pumped 78 Started on 3% KCL Slick Water pad @ 70.8 bpm, 5600 psi. Open Perforation= 21 out of 39 shots, ISIP = 2155 psi, .72 Frac Gradient. Started on X-link pad @ 70.3 bpm, 4344 psi. Start 2# Gal 20/40 CRC, 68.5 bpm, 3625 psi 2# 68.4 bpm, 3625 psi 2# On perfs bpm 71.4 @ 3756 psi 3# 71.1 bpm, 3774 psi 3# On perfs bpm 71.4 @ 3720 psi Seen a pressure spike on the tail end of 3#. Did not stg into 3.5# sand. Cut 3# sand early do to net pressure increase. On Flush @ 72.0 bpm, 4301 psi Open Perforation = 30 out of 39 shots, ISDP, 2366 psi, 0. 75 Frac Gradient. Max Rate 72 bpm, Max Pressure 6243 psi. Avg Rate 70.6 bpm, Avg Pressure 4769 psi Total X-link fluids pumped: 48,527 gals Total Slick water Pad pumped: 70,229 gals Total fluid in bbls pumped: 2920 bbls Total 20/40 CRC Pumped = 95,700# Total 100 Mesh Sand Pumped:None. Only place 61% of prop in formation. did not pump 3.5# or 4# stages, do to pressure spike.
10:00	1.50	11:30	PFRT	Perforating	R/U E-line, P/up stg #5, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7502', with 1900 psi, pulled up and perforated stg #5 intervals from 7338' to 7486'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #5.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:30	1.50	13:00	FRAC	Frac. Job	Pressure tested treating iron @ 8902 psi. Stg #5 of 9, Zone Stg Wasatch & CR-2, Water Temp @ 68°. Open Well @ 11:30 Hrs, @ 1639 psi, 0 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10.3 bpm, 1820 psi. Started on 15%HCL @ 10.0 bpm 1766 psi, Pumped Bioballs @30.0 bpm 2199 psi.Total Bbls of 15% HCL Pump 85.5 bbls & Bio-Balls pumped 72 Started on 3% KCL Slick Water pad @ 70.9 bpm, 4566 psi, Open Perforation = 22 out of 36 shots, ISIP = 1864 psi, .69 Frac Gradient. Started on X-link pad @ 72.2 bpm, 3875 psi. Start 2#/ Gal 20/40 CRC 72.0 bpm, 3610 psi 2# 70.4 bpm, 3920 psi 2# On perfs bpm 70.4 @ 3501 psi 20/40 CRC, 3# 70.9 bpm, 3427 psi 3# On perfs bpm 71.1 @ 3193 psi 20/40 CRC, Switch to Prem White. 3.5# 71.4 bpm, 3178 psi 3.5# On perfs bpm 71.4 @ 3029 psi 4# 71.4 bpm, 3040 psi 4# On perfs bpm 71.4 @ 2944 psi On Flush @ 71.8 bpm, 3021 psi Final Injection, 72.4 bpm, 3329 psi Open Perforation = 36 out of 36 shots, ISDP, 2245 psi, 0.74 Frac Gradient. Max Rate 72 bpm, Max Pressure 5250 psi. Avg Rate 69 bpm, Avg Pressure 3579 psi Total X-link fluids pumped: 64,457 gals Total Slick water Pad pumped: 68,097 gals Total fluid in bbls pumped: 3246 bbls Total 20/40 CRC pumped: 52,600 lb Total Prem White Sand pumped, 20/40 = 103,900 lb. Total 100 Mesh Sand Pumped: None, Pumped job as designed. placed 100% of prop in formation.
13:00	1.50	14:30	PFRT	Perforating	R/U E-line, P/up stg #6, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7330', with 1800 psi, pulled up and perforated stg #6 intervals from 7135' to 7314'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #6.
14:30	2.50	17:00	FRAC	Frac. Job	Pressure tested treating iron @ 8800 psi. grease insert on the night cap valve started to leak and would not hold a pressure test. Replaced night cap. Stg #6 of #9, Zone Stg, Castle Peak, Water Temp @ 68°. Open Well @ 15:38 Hrs, @ 1850 psi, 49 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10.8 bpm, 1964 psi.Started on 15%HCL @ 10.0 bpm 1765 psi, Pumped Bioballs @ 30 bpm 2298 psi.Total Bbls of 15% HCL Pump 93.2 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 72.4 bpm, 3798 psi. Open Perforation = 26 out of 39 shots, ISIP = 1897 psi, .70 Frac Gradient. Started on X-link pad @ 70.6 bpm, 3677 psi. Start 1#/ Gal 100 mesh sand, 70.3 bpm, 3752 psi. Stg over to 1# ppg 20/40 Prem White sand. 1# 70.6 bpm, 3390 psi 1# On perfs bpm 70.5 @ 3234 psi 2# 70.9 bpm, 3120 psi 2# On perfs bpm 70.7 @ 3054 psi 3# 70.9 bpm, 3120 psi 3# On perfs bpm 71.4 @ 2945 psi 3.5# 70.9 bpm, 2937 psi 3.5# On perfs bpm 69.4 @ 2840 psi, Pump 26 lost rate due something stuck in the valves. 4# 69.6 bpm, 2746 psi 4# On perfs bpm 69.4 @ 2787 psi On Flush @ 69.3 bpm, 2927 psi Final Injection, 68 bpm, 4169 psi Open Perforation = 36 out of 39 shots, ISDP, 2355 psi, 0.72 Frac Gradient. Max Rate 72 bpm, Max Pressure 5468 psi. Avg Rate 69.2 bpm, Avg Pressure 3361 psi Total X-link fluids pumped: 80,906 gals Total Slick water Pad pumped: 71046 gals Total fluid in bbls pumped: 3710 bbls Total Prem White Sand pumped, 20/40 = 166,700#, Total 100 Mesh Sand Pumped: 20,200#, Job was pumped as designed.
17:00	1.50	18:30	PFRT	Perforating	R/U E-line, P/up stg #7, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7122', with 1700 psi, pulled up and perforated stg #7 intervals from 7135' to 7314'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #7.
18:30	11.50	06:00	GOP	General Operations	Secured and freeze protected frac tree, continued to restock sand and water throughout the night.

16-6D-45 BTR 12/29/2011 06:00 - 12/30/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	HES Arrived @ 05:00 hrs, Started frac equipment, Ran QA/QC Checks on chemicals and fluids, primed pumps with 80° water, exposed treating iron with warm water. completed pressure test on treating iron.
06:30	0.50	07:00	SMTG	Safety Meeting	Safety meeting with all contractors on location. Reviewed JSA, PPE, and working around suspended loads. Identified red zones and muster points, using good communication at all times.
07:00	1.50	08:30	FRAC	Frac. Job	Pressure tested treating iron @ 9100 psi. good test. Stg #7 of 9, Zone Stg Castle Peak, Water Temp @ 66°. Open Well @ 06:39 Hrs, @ 1600 psi, 84 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 10 bpm, 1570 psi. Started on 15%HCL @ 10.0 bpm 1950 psi, Pumped Bioballs @ 30 bpm 2150 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 71.4 bpm, 4501 psi. Open Perforation = 22 out of 39 shots, ISIP = 1705 psi, .68 Frac Gradient. Started on X-link pad @ 71.8 bpm, 3338 psi. Start 1#/ Gal 100 mesh sand, 71.7 bpm, 3367 psi 1# 71.5 bpm, 3284 psi 1# On perms bpm 71.9 @ 3124 psi 2# 71.8 bpm, 3121 psi 2# On perms bpm 70.4 @ 2967 psi 3# 70.5 bpm, 2974 psi 3# On perms bpm 70.9 @ 2692 psi 3.5# 71.5 bpm, 2750 psi 3.5# On perms bpm 71.9 @ 2697 psi 4# 71.5 bpm, 2699 psi 4# On perms bpm 71.9 @ 2658 psi On Flush @ 70.4 bpm, 2804 psi Final Injection, 70.9 bpm, 2804 psi Open Perforation = 36 out of 39 shots, ISDP, 2003 psi, 0.73 Frac Gradient. Max Rate 73.1 bpm, Max Pressure 4895 psi. Avg Rate 70.1 bpm, Avg Pressure 3195 psi Total X-link fluids pumped: 76,407 gals Total Slick water Pad pumped: 67,328 gals Total fluid in bbls pumped: 3514 bbls Total Prem White Sand pumped, 20/40 = 147,635#, Total 100 Mesh Sand Pumped:19,000#, Job was pumped as designed.
08:30	1.50	10:00	PFRT	Perforating	R/U E-line, P/up stg #8,10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6934', with 1400 psi, pulled up and perforated stg #8 intervals from 6765' to 6916'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #8.
10:00	1.50	11:30	FRAC	Frac. Job	Pressure tested treating iron @ 9010 psi. Good test, Stg #8 of 9, Zone Stg Castle Peak, Water Temp @ 68°. Open Well @ 10:00 Hrs, @ 1293 psi, 30 Surface and Frac Mandrel, 0 psi. Formation Break Down @ 20 bpm, 1683 psi. Started on 15%HCL @ 10.0 bpm 1480 psi, Pumped Bioballs @ 30.0 bpm 1909 psi.Total Bbls of 15% HCL Pump 93.2 bbls & Bio-Balls pumped 78 Started on 3% KCL Slick Water pad @ 73.3 bpm, 3349 psi. Open Perforation = 30 out of 36 shots, ISIP = 1468 psi, .66 Frac Gradient. Started on X-link pad @ 71.5 bpm, 3349 psi. Start 1#/ Gal 100 Mesh sand, 71.9 bpm, 3425 psi 1# 71.5 bpm, 3319 psi 1# On perms bpm 71.5 @ 3198 psi 2# 71.5 bpm, 3192 psi 2# On perms bpm 71.5 @ 3024 psi 3# 71.5 bpm, 3036 psi 3# On perms bpm 71.2 @ 2870 psi 3.5# 71.9 bpm, 2819 psi 3.5# On perms bpm 71.9 @ 2676 psi 4# 71.9 bpm, 2719 psi 4# On perms bpm 71.9 @ 2676 psi On Flush @ 66 bpm, 2600 psi Final Injection, 70.0 bpm, 3031 psi Open Perforation = 36 out of 36 shots, ISDP 1906 psi, 0. 72 Frac Gradient. Max Rate 73.4 bpm, Max Pressure 4546 psi. Avg Rate 69.3 bpm, Avg Pressure 3119 psi Total X-link fluids pumped:66,153 gals Total Slick water Pad pumped: 58,153 gals Total fluid in bbls pumped: 3063 bbls Total Prem White Sand pumped, 20/40 = 133,300#, Total 100 Mesh Sand Pumped: 16,500#
11:30	1.50	13:00	PFRT	Perforating	R/U E-line, P/up stg #9, 10K Fast Drill CBP and Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6746', with 1420 psi, pulled up and perforated stg #9 intervals from 6574' to 6730'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #9.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	1.50	14:30	FRAC	Frac. Job	Pressure tested treating iron @ 8900 psi. Stg #9 of 9, Zone Stg Black Shale, Water Temp @ 68 *. Open Well @ 13:12 Hrs, @ 1350 psi, 89 Surface and Frac Mandrel, 0 psi Formation Break Down @ 5.9 bpm, 1879 psi. Started on 15%HCL @ 8.8 bpm 1466 psi, Pumped Bioballs @ 30.7 bpm 1872 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 78. Started on 3% KCL Slick Water pad @ 71.4 bpm, 3435 psi. Open Perforation = 29 out of 39 shots, ISIP = 1570 psi, . 68 Frac Gradient Started on X-link pad @ 72.0 bpm, 3327 psi. Start 1#/ Gal 100 mesh sand, 71.6 bpm, 3376 psi 1# 71.9 bpm, 3233 psi 1# On perms bpm 71.9 @ 3139 psi 2# 71.9 bpm, 3135 psi 2# On perms bpm 72.0 @ 2952 psi 3# 71.9 bpm, 2974 psi 3# On perms bpm 72.0 @ 2771 psi 3.5# 72.0 bpm, 2750 psi 3.5# On perms bpm 72 @ 2685 psi 4# 72.0 bpm, 2688 psi 4# On perms bpm 72.0 @ 2625 psi On Flush @ 71.4 bpm, 2602 psi Final Injection, 70.8 bpm, 3122 psi Open Perforation = 39 out of 39 shots, ISDP psi, 0.XX Frac Gradient. Max Rate 74.0 bpm, Max Pressure 4124 psi. Avg Rate 70.2 bpm, Avg Pressure 3071 psi Total X-link fluids pumped: 54,555 gals Total Slick water Pad pumped: 64,238 gals Total fluid in bbls pumped: 2920 bbls Total Prem White Sand pumped, 20/40 = 120,760#, Total 100 Mesh Sand Pumped: 15,700#, Job was pumped as designed.
14:30	1.00	15:30	WLWK	Wireline	R/U E-line, RIH w/ 10K Fast Drill CBP, Pressure tested lub, RIH to target depth, ran correlation strip from CBL/CCL/GR log reference on 12/14/11. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug / Kill Plug @ 6520', with 1400 psi. Pulled up and bled pressure off of csg, watched and verified static test on Kill plug. Pooh with E-line and monitored static test for 15 minutes. Good test on kill plug. L/D Setting and secured frac tree.
15:30	2.75	18:15	SRIG	Rig Up/Down	RDMO Halliburton and SLB, R/D water manifold and batch frac tanks for the work over.
18:15	11.75	06:00			Freeze protected frac tree with 50/50 methanol. Policed and prep location for work over rig.

16-6D-45 BTR 12/30/2011 06:00 - 12/31/2011 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	0.50	08:00	SRIG	Rig Up/Down	MIRU w/o Rig.
08:00	1.00	09:00	BOPI	Install BOP's	ND Goat Head & Frac Tree, NU 7 1/16" 5K BOP & 7 1/16" 5K Flow Cross, & 7 1/16" 5K Annular. Function Testl.
09:00	1.00	10:00	SRIG	Rig Up/Down	RU work Floor & Tbg. equip. Unload 301 Jts. of 2 7/8" L80 EUE Tbg.
10:00	4.50	14:30	RUTB	Run Tubing	PU 4 5/8" Chomp Mill, 1 Jt. 2 7/8" L80 EUE Tbg., 2.205" XN Nipple, 1 Jt., 2.313 X Nipple, Cont. PU Tbg. Tag Kill Plug @ 6520", Lay down 1 Jt.
14:30	0.50	15:00	SRIG	Rig Up/Down	RU Power Swivel
15:00	2.50	17:30	DOPG	Drill Out Plugs	Load Tbg. Establish Circ. w/ Rig pump @ 1 Bbls./min. Drill out Plugs as follows: Plg. @ 6520' Csg.-750# Plg. @ 6746' Csg.- 800#, 10' of sand. Made 1 more connection after plg. Circ. bottoms up. Increased pump rate to 1.5 bbls./min. and increased return rate to 3 bbs./min. Recovered 120 Bbls. back. 160 Bbls. pumped for the day.
17:30	0.50	18:00	GOP	General Operations	Tarp in well head, drain up fluid lines & Pump.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	Secure well, SDFN.

16-6D-45 BTR 12/31/2011 06:00 - 1/1/2012 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting
07:30	9.00	16:30	DOPG	Drill Out Plugs	<p>Make connections to next plug. Establish circ. w/ Rig pump @ 1.5 Bbls./min. Drill Plugs as follows:</p> <p>Plg.@6934', 15' of sand. Csg.-900# Plg.@7122', 15' of sand. Csg.-900# Plg.@7330', 20' of sand. Csg.-850# Plg.@7502', 40' of sand. Csg.-800# Plg.@7702', 35' of sand. Csg.-800# Plg.@7905', 25' of sand. Csg.-800# Plg.@8130', 35' of sand.</p> <p>Cleaned out to 8494', Leaving 71' of Rat Hole.</p> <p>Circ. bottoms up, Increased pump to 2 Bbls./min., Increased return rate to 3 Bbls./min. Cont. Flowing Csg. while Laying down Tbg.</p>
16:30	0.50	17:00	SRIG	Rig Up/Down	RD Power Swivel
17:00	1.00	18:00	PULT	Pull Tubing	Lay down Tbg. to landing depth, w/69 Jts. out & 205 in. Pull 2 jts. To drain fluid in tbg. & run back in hole.
18:00	0.50	18:30	GOP	General Operations	Drain all Fluid lines & Rig pump. Tarp in well. Secure well SDFN.
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	WSI SDFN.

16-6D-45 BTR 1/1/2012 06:00 - 1/2/2012 06:00

API/UWI 43-013-50610	State/Province Utah	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,527.0	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	LOCL	Lock Wellhead & Secure	WSI.																																																																
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting																																																																
07:30	1.00	08:30	GOP	General Operations	<p>PU Hanger, Wash Bowl w/ 5 Bbls., Stage hanger thru BOP stack, Land hanger & Test. Land Tbg. as follows:</p> <p>Tubing Des: Tubing - ProductionSet Depth (ftKB): 6,502.7 Run Date: 2011/12/31 17:00 Pull Date: Tubing Components</p> <table border="1"> <thead> <tr> <th>Jts (ft)</th> <th>Item Des</th> <th>OD (in)</th> <th>ID (in)</th> <th>Wt (lb/ft)</th> <th>Grade</th> <th>Top Thread</th> <th>Len</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Tubing Hanger</td> <td>5</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>0.44</td> <td>0.4</td> </tr> <tr> <td>203</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>6,435.42</td> <td>0.4</td> <td></td> </tr> <tr> <td>1</td> <td>X Profile Nipple</td> <td>2 7/8</td> <td>2.313</td> <td>6.5</td> <td>L-80</td> <td>1.25</td> <td>6,435.90</td> </tr> <tr> <td>1</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>31.7</td> <td>6,437.10</td> <td></td> </tr> <tr> <td>1</td> <td>XN Nipple</td> <td>2 7/8</td> <td>2.205</td> <td>6.5</td> <td>L-80</td> <td>1.25</td> <td>6,468.80</td> </tr> <tr> <td>1</td> <td>Tubing 2 7/8</td> <td>2.441</td> <td>6.5</td> <td>L-80</td> <td>31.7</td> <td>6,470.10</td> <td></td> </tr> <tr> <td>1</td> <td>Pump Off Bit Sub</td> <td>3 1/8</td> <td>2.441</td> <td>6.5</td> <td></td> <td></td> <td>0.95</td> </tr> </tbody> </table>	Jts (ft)	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len	1	Tubing Hanger	5	2.441	6.5	L-80	0.44	0.4	203	Tubing 2 7/8	2.441	6.5	L-80	6,435.42	0.4		1	X Profile Nipple	2 7/8	2.313	6.5	L-80	1.25	6,435.90	1	Tubing 2 7/8	2.441	6.5	L-80	31.7	6,437.10		1	XN Nipple	2 7/8	2.205	6.5	L-80	1.25	6,468.80	1	Tubing 2 7/8	2.441	6.5	L-80	31.7	6,470.10		1	Pump Off Bit Sub	3 1/8	2.441	6.5			0.95
Jts (ft)	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len																																																														
1	Tubing Hanger	5	2.441	6.5	L-80	0.44	0.4																																																														
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1	Pump Off Bit Sub	3 1/8	2.441	6.5			0.95																																																														
08:30	0.50	09:00	SRIG	Rig Up/Down	RD Tbg. equip. & work floor.																																																																
09:00	0.50	09:30	BOPR	Remove BOP's	ND BOP, NU Producton Tree. Tie in sand can From Tbg. to sales line.																																																																
09:30	0.50	10:00	GOP	General Operations	Drop ball, POB, & chase w/ 30 Bbls. @ 4.5 Bbls./min. Drain all fluid equip.																																																																
10:00	1.00	11:00	SRIG	Rig Up/Down	RDMO w/o Rig.																																																																
11:00	19.00	06:00	FBCK	Flowback Well	Put well on Production.																																																																

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00			

16-6D-45 BTR 2/6/2012 06:00 - 2/7/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL
07:00	4.00	11:00	GOP	General Operations	MOVE IN SLIDE ROTOFLEX BACK R/U KILL WELL N/D WELL HEAD N/U BOP
11:00	3.00	14:00	RUTB	Run Tubing	RIH P/U TUBING TAG FILL @ 8457'
14:00	3.00	17:00	PULT	Pull Tubing	POOH W/ TUBING 268 JTS
17:00	1.00	18:00	RUTB	Run Tubing	P/U BAILER RIH W/ 50 JTS
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	DOWN TIL MORNING

16-6D-45 BTR 2/7/2012 06:00 - 2/8/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL
07:00	2.00	09:00	RUTB	Run Tubing	TIH W/ 218 JTS TAG SAND
09:00	2.00	11:00	GOP	General Operations	BAIL AND SWIVEL ON SAND MAKE 32 FEET REAL HARD CLEAND OUT TO 8459'
11:00	3.00	14:00	PULT	Pull Tubing	POOH W/ TUBING LAY DOWN BAILER
14:00	4.00	18:00	RUTB	Run Tubing	RIH W/ TUBING AS FOLLOWS PERGE VALVE 6 JTS DESANDER 4' SUB SEAT NIPPLE 1 JT ANCHOR 257 JTS SET ANCHOR LAND TUBING N/D BOP N/U WELL HEAD
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	DOWN TIL MORNING

16-6D-45 BTR 2/8/2012 06:00 - 2/9/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-50610	Utah	Duchesne	Black Tail Ridge	PRODUCING	8,527.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	TRAVEL FLUSH TUBING W/ 70 BBLs
07:00	3.00	10:00	RURP	Run Rods & Pump	P/U PUMP RIH 24' STACKING OUT N/D WELL HEAD RELEASE ANCHOR LAY DOWN TOP JT P/U NEW JT SET ANCHOR N/U WELL HEAD JT HAD DRIFT RUN THRU WHEN PICKED UP

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	7.00	17:00	RURP	Run Rods & Pump	R/U ROD EQ. P/U PUMP RIH AS FOLLOWS PICKING UP RODS PUMP rig forggot shear sub 28 1" 86 3/4 117 7/8 94 1" 8' 6' 4' 2-2' 40 POLISH ROD SPACE OUT R/D SLIDE ROTOFLEX IN HANG OFF
17:00	13.00	06:00	GOP	General Operations	TURN OVER TO PRODUCTION

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. 14201626296

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. 16-8D-45 BTR

9. API Well No. 43-013-50610

10. Field and Pool, or Exploratory ALTAMONT

11. Sec., T., R., M., or Block and Survey or Area Sec 6 T4S R/5W Mer UBM

12. County or Parish DUCHESNE 13. State UT

17. Elevations (DF, KB, RT, GL)* 6037 GL

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: MEGAN FINNEGAN E-Mail: mfinnegan@billbarrettcorp.com

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface SESE 608FSL 756FEL
At top prod interval reported below SESE 819FSL 804FEL
At total depth SESE 794FSL 826FWL *Bit by HSM*

14. Date Spudded 08/26/2011 15. Date T.D. Reached 12/05/2012 16. Date Completed D & A Ready to Prod. 01/01/2012

18. Total Depth: MD 8527 TVD 8516 19. Plug Back T.D.: MD 8437 TVD 8423 20. Depth Bridge Plug Set: MD TVD

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80	80			0	
14.750	10.750 J-55	45.5	0	2508	2508	1120	497	0	
9.875	5.500 P-110	17.0	0	8527	8527	2000	668	4030	15000

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	6503							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	6574	7314	6574 TO 7314	0.440	150	OPEN
B) WASATCH	7338	8423	7338 TO 8423	0.440	201	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
6574 TO 7314	GREEN RIVER: SEE TREATMENT STAGES 6 - 9
7338 TO 8423	WASATCH: SEE TREATMENT STAGES 1 - 5

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/01/2012	01/05/2012	24	→	374.0	737.0	1206.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
30/64	478	1780.0	→	374	737	1206	1871	PGW	

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
			→						FEB 02 2012
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						DIV. OF OIL, GAS & MINING

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16-6D-45 BTR Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>BBLs Slurry</u>	<u>lbs 20/40 White Sand</u>	<u>lbs 100 Mesh Sand</u>	<u>lbs CRC Sand</u>
1	4,112			173,200
2	3,766			171,890
3	3,622			167,930
4	3,023			95,700
5	3,410	156,500		
6	3,912	166,700	20,200	
7	3,704	156,600	19,000	
8	3,225	133,300	16,500	
9	3,068	120,760	15,140	

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

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FEB 02 2012

DIV. OF OIL, GAS & MINING

Bill Barrett Corp

Duchesne County, UT (NAD 1927)

Sec. 6-T4S-R5W

16-6D-45 BTR

Plan A Rev 0

Survey: Sperry MWD Survey

Sperry Drilling Services Standard Report

13 December, 2011

Well Coordinates: 665,640.28 N, 2,283,538.84 E (40° 09' 23.22" N, 110° 29' 07.98" W)

Ground Level: 6,035.00 ft

Local Coordinate Origin:	Centered on Well 16-6D-45 BTR
Viewing Datum:	RKB 16 ft @ 6051.00ft (Patterson 506)
TVDs to System:	N
North Reference:	True
Unit System:	API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 43l

RECEIVED

FEB 02 2012

DIV. OF OIL, GAS & MINING

HALLIBURTON

Survey Report for 16-6D-45 BTR - Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Tie-On to Surface @ 0.00 ft							
130.00	0.35	281.94	130.00	0.08	-0.39	0.18	0.27
First Sperry MWD Survey @ 130.00 ft							
193.00	0.42	265.70	193.00	0.10	-0.81	0.30	0.20
255.00	0.49	285.57	255.00	0.16	-1.29	0.48	0.28
317.00	0.36	281.70	316.99	0.27	-1.74	0.70	0.21
378.00	0.38	272.50	377.99	0.32	-2.12	0.84	0.10
439.00	0.28	272.53	438.99	0.33	-2.48	0.94	0.16
500.00	0.29	292.04	499.99	0.40	-2.77	1.08	0.16
561.00	0.61	289.81	560.99	0.56	-3.22	1.35	0.53
621.00	0.69	282.54	620.99	0.75	-3.87	1.70	0.19
682.00	0.53	289.20	681.98	0.92	-4.49	2.02	0.29
743.00	0.71	282.00	742.98	1.10	-5.13	2.35	0.32
804.00	0.51	274.93	803.97	1.20	-5.77	2.61	0.35
865.00	0.39	300.49	864.97	1.33	-6.22	2.85	0.38
926.00	0.29	268.54	925.97	1.43	-6.55	3.03	0.34
990.00	0.43	267.80	989.97	1.41	-6.96	3.12	0.22
1,053.00	0.31	297.17	1,052.97	1.48	-7.34	3.28	0.35
1,116.00	0.05	338.93	1,115.97	1.59	-7.50	3.42	0.44
1,180.00	0.12	12.63	1,179.97	1.68	-7.50	3.51	0.13
1,243.00	0.11	251.31	1,242.97	1.72	-7.54	3.56	0.32
1,307.00	0.62	97.57	1,306.97	1.66	-7.26	3.43	1.13
1,371.00	0.87	98.08	1,370.96	1.54	-6.43	3.11	0.39
1,434.00	0.79	114.00	1,433.96	1.30	-5.56	2.66	0.39
1,498.00	0.75	104.62	1,497.95	1.01	-4.75	2.18	0.21
1,561.00	0.55	125.31	1,560.95	0.74	-4.11	1.74	0.48
1,625.00	0.51	105.79	1,624.94	0.48	-3.58	1.37	0.29
1,688.00	0.59	22.32	1,687.94	0.70	-3.19	1.48	1.17
1,752.00	1.10	16.23	1,751.93	1.60	-2.89	2.27	0.81
1,815.00	1.35	12.83	1,814.92	2.90	-2.56	3.45	0.41
1,879.00	1.23	4.12	1,878.90	4.32	-2.34	4.77	0.36
1,942.00	0.66	12.47	1,941.89	5.35	-2.22	5.74	0.93
2,005.00	1.04	27.36	2,004.89	6.21	-1.88	6.49	0.69
2,069.00	1.16	32.06	2,068.88	7.28	-1.27	7.36	0.23
2,132.00	1.46	21.10	2,131.86	8.57	-0.64	8.45	0.62
2,196.00	2.05	4.12	2,195.83	10.47	-0.26	10.20	1.22
2,259.00	1.67	10.55	2,258.80	12.50	-0.01	12.10	0.69
2,323.00	1.46	0.83	2,322.77	14.23	0.17	13.73	0.53
2,386.00	1.59	349.39	2,385.75	15.89	0.02	15.38	0.52
2,439.00	1.29	351.40	2,438.73	17.20	-0.20	16.70	0.57
2,537.00	0.83	356.83	2,536.72	19.00	-0.41	18.50	0.48
2,601.00	0.73	344.19	2,600.71	19.86	-0.55	19.36	0.31
2,664.00	1.29	3.19	2,663.70	20.95	-0.62	20.44	1.02
2,728.00	1.87	3.45	2,727.68	22.71	-0.51	22.11	0.91
2,791.00	2.51	4.93	2,790.63	25.11	-0.33	24.39	1.02
2,854.00	2.75	3.84	2,853.56	28.00	-0.11	27.13	0.39
2,918.00	3.31	0.04	2,917.47	31.38	-0.01	30.37	0.93
2,981.00	3.89	356.59	2,980.35	35.33	-0.13	34.23	0.98
3,045.00	4.50	358.70	3,044.18	40.01	-0.32	38.80	0.98

Survey Report for 16-6D-45 BTR - Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
3,108.00	4.70	357.70	3,106.97	45.06	-0.48	43.73	0.34
3,172.00	5.02	357.46	3,170.74	50.47	-0.71	49.03	0.50
3,235.00	5.66	356.69	3,233.47	56.33	-1.01	54.78	1.02
3,298.00	5.96	355.31	3,296.15	62.69	-1.46	61.05	0.53
3,361.00	6.68	352.66	3,358.76	69.58	-2.19	67.90	1.23
3,425.00	7.12	351.08	3,422.30	77.19	-3.28	75.54	0.75
3,488.00	7.49	350.51	3,484.79	85.10	-4.57	83.52	0.60
3,552.00	7.79	350.56	3,548.22	93.49	-5.96	91.99	0.47
3,615.00	7.72	349.84	3,610.64	101.87	-7.41	100.47	0.19
3,678.00	7.49	347.15	3,673.09	110.04	-9.07	108.79	0.67
3,741.00	7.44	344.23	3,735.56	117.97	-11.09	116.97	0.61
3,805.00	7.34	342.51	3,799.03	125.85	-13.45	125.20	0.38
3,868.00	6.82	338.71	3,861.54	133.18	-16.02	132.93	1.11
3,932.00	7.35	339.92	3,925.06	140.56	-18.80	140.78	0.86
3,995.00	7.88	340.27	3,987.50	148.41	-21.64	149.09	0.84
4,058.00	7.98	340.83	4,049.90	156.61	-24.54	157.75	0.20
4,121.00	7.62	342.84	4,112.31	164.73	-27.20	166.28	0.72
4,185.00	7.28	343.27	4,175.77	172.67	-29.62	174.57	0.54
4,248.00	6.54	342.19	4,238.32	179.91	-31.87	182.14	1.19
4,312.00	5.14	340.18	4,301.98	186.07	-33.96	188.64	2.21
4,375.00	4.20	337.38	4,364.77	190.86	-35.80	193.73	1.53
4,438.00	3.56	331.11	4,427.63	194.70	-37.63	197.91	1.22
4,502.00	2.42	323.70	4,491.54	197.53	-39.39	201.09	1.88
4,565.00	1.89	325.47	4,554.50	199.46	-40.77	203.30	0.85
4,629.00	1.85	341.79	4,618.46	201.31	-41.69	205.33	0.83
4,693.00	2.12	356.64	4,682.42	203.47	-42.08	207.52	0.90
4,756.00	2.40	5.38	4,745.38	205.95	-42.03	209.90	0.70
4,819.00	2.41	2.98	4,808.32	208.58	-41.84	212.41	0.16
4,883.00	2.31	353.27	4,872.27	211.21	-41.92	214.97	0.64
4,946.00	1.83	342.89	4,935.22	213.43	-42.36	217.23	0.96
5,009.00	1.50	337.16	4,998.20	215.15	-42.98	219.05	0.59
5,073.00	0.89	335.04	5,062.18	216.38	-43.51	220.37	0.96
5,136.00	0.79	321.22	5,125.18	217.16	-43.99	221.25	0.36
5,199.00	0.54	280.58	5,188.17	217.55	-44.55	221.77	0.82
5,263.00	0.94	233.82	5,252.17	217.30	-45.27	221.70	1.08
5,326.00	1.26	219.31	5,315.16	216.46	-46.13	221.10	0.67
5,390.00	0.98	203.24	5,379.14	215.41	-46.79	220.26	0.65
5,453.00	0.92	180.71	5,442.14	214.41	-47.01	219.34	0.60
5,517.00	1.26	187.12	5,506.12	213.20	-47.10	218.19	0.56
5,580.00	1.49	195.44	5,569.11	211.72	-47.41	216.84	0.48
5,643.00	1.36	199.90	5,632.09	210.23	-47.88	215.51	0.27
5,707.00	1.08	213.52	5,696.07	209.01	-48.47	214.48	0.63
5,770.00	0.38	267.07	5,759.07	208.50	-49.01	214.13	1.44
5,834.00	0.48	13.01	5,823.07	208.75	-49.16	214.41	1.08
5,897.00	1.01	17.76	5,886.06	209.54	-48.93	215.11	0.85
5,960.00	1.27	31.50	5,949.05	210.66	-48.40	216.07	0.60
6,024.00	1.23	44.69	6,013.03	211.76	-47.54	216.91	0.45
6,087.00	1.20	56.63	6,076.02	212.60	-46.52	217.47	0.40
6,151.00	0.76	65.83	6,140.01	213.14	-45.57	217.76	0.73
6,214.00	0.57	43.31	6,203.01	213.54	-44.97	217.99	0.51
6,278.00	0.28	173.37	6,267.00	213.62	-44.74	218.01	1.22

Survey Report for 16-6D-45 BTR - Sperry MWD Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6,341.00	1.20	209.00	6,330.00	212.89	-45.04	217.38	1.57
6,404.00	1.49	215.20	6,392.98	211.64	-45.83	216.37	0.51
6,468.00	1.08	235.23	6,456.97	210.62	-46.81	215.62	0.94
6,531.00	0.57	287.19	6,519.96	210.37	-47.59	215.58	1.36
6,595.00	0.17	322.44	6,583.96	210.54	-47.96	215.84	0.69
6,658.00	0.52	197.95	6,646.96	210.34	-48.10	215.68	1.00
6,722.00	0.67	212.78	6,710.95	209.75	-48.39	215.18	0.33
6,785.00	0.86	213.54	6,773.95	209.05	-48.85	214.62	0.30
6,851.00	0.80	216.68	6,839.94	208.27	-49.40	214.00	0.11
6,914.00	0.74	216.24	6,902.94	207.59	-49.91	213.47	0.10
6,978.00	0.74	216.69	6,966.93	206.92	-50.40	212.95	0.01
7,041.00	0.55	197.67	7,029.93	206.31	-50.73	212.44	0.45
7,104.00	0.83	205.50	7,092.92	205.61	-51.02	211.83	0.47
7,168.00	0.91	207.75	7,156.91	204.74	-51.46	211.10	0.14
7,231.00	0.97	218.63	7,219.91	203.88	-52.02	210.41	0.30
7,295.00	1.28	220.46	7,283.89	202.91	-52.82	209.68	0.49
7,358.00	1.80	216.53	7,346.87	201.58	-53.87	208.65	0.84
7,421.00	1.82	215.99	7,409.84	199.98	-55.05	207.39	0.04
7,485.00	1.83	215.73	7,473.81	198.32	-56.24	206.09	0.02
7,548.00	2.08	214.00	7,536.77	196.56	-57.47	204.69	0.41
7,612.00	2.05	209.69	7,600.73	194.60	-58.68	203.10	0.25
7,675.00	0.35	188.77	7,663.71	193.43	-59.27	202.12	2.74
7,739.00	0.32	214.78	7,727.71	193.09	-59.40	201.82	0.24
7,802.00	0.64	219.61	7,790.71	192.68	-59.73	201.50	0.51
7,865.00	0.80	217.39	7,853.70	192.06	-60.22	201.03	0.26
7,929.00	1.13	215.31	7,917.70	191.19	-60.86	200.34	0.52
7,992.00	0.43	254.69	7,980.69	190.62	-61.44	199.94	1.34
8,055.00	0.48	264.31	8,043.69	190.53	-61.93	199.98	0.14
8,118.00	0.76	234.24	8,106.68	190.26	-62.54	199.87	0.67
8,181.00	0.89	233.51	8,169.68	189.72	-63.27	199.53	0.21
8,244.00	1.07	230.29	8,232.67	189.06	-64.11	199.10	0.30
8,308.00	1.41	225.12	8,296.65	188.12	-65.13	198.45	0.56
8,371.00	1.67	222.05	8,359.63	186.89	-66.30	197.55	0.43
8,434.00	1.86	221.14	8,422.60	185.44	-67.58	196.47	0.30
8,477.00	2.00	217.71	8,465.58	184.32	-68.50	195.62	0.42
Final Sperry MWD Survey @ 8477.00 ft							
8,527.00	2.00	217.71	8,515.55	182.94	-69.57	194.55	0.00
Straight Line Projection to TD @ 8527.00							

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
0.00	0.00	0.00	0.00	Tie-On to Surface @ 0.00 ft
130.00	130.00	0.08	-0.39	First Sperry MWD Survey @ 130.00 ft
8,477.00	8,465.58	184.32	-68.50	Final Sperry MWD Survey @ 8477.00 ft
8,527.00	8,515.55	182.94	-69.57	Straight Line Projection to TD @ 8527.00

Survey Report for 16-6D-45 BTR - Sperry MWD Survey

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	16-6D-45 BTR_Plan A-0_BHL Tgt	345.45	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
130.00	8,527.00	Sperry MWD Survey	MWD

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
16-6D-45 BTR_Setbac - survey hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	665,640.28	2,283,538.84	40° 9' 23.220 N	110° 29' 7.980 W
16-6D-45 BTR_Plan A - survey misses target center by 24.23ft at 8511.61ft MD (8500.16 TVD, 183.37 N, -69.24 E) - Point	0.00	0.00	8,501.00	200.37	-51.99	665,840.03	2,283,484.58	40° 9' 25.200 N	110° 29' 8.650 W
16-6D-45 BTR_Setbac - survey hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	665,640.28	2,283,538.84	40° 9' 23.220 N	110° 29' 7.980 W
16-6D-45 BTR_Plan A - survey misses target center by 13.95ft at 6121.79ft MD (6110.80 TVD, 212.94 N, -45.96 E) - Rectangle (sides W200.00 H200.00 D2,390.00)	0.00	0.00	6,111.00	200.37	-51.99	665,840.03	2,283,484.58	40° 9' 25.200 N	110° 29' 8.650 W
16-6D-45 BTR_Sector - survey hits target center - Polygon	0.00	0.00	0.00	0.00	0.00	665,640.28	2,283,538.84	40° 9' 23.220 N	110° 29' 7.980 W
16-6D-45 BTR_SHL - survey hits target center - Point	0.00	0.00	0.00	0.00	0.00	665,640.28	2,283,538.84	40° 9' 23.220 N	110° 29' 7.980 W

North Reference Sheet for Sec. 6-T4S-R5W - 16-6D-45 BTR - Plan A Rev 0

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

Vertical Depths are relative to RKB 16 ft @ 6051.00ft (Patterson 506). Northing and Easting are relative to 16-6D-45 BTR

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

Projection method is Lambert Conformal Conic (2 parallel)

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

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991453

Grid Coordinates of Well: 665,640.28 ft N, 2,283,538.84 ft E

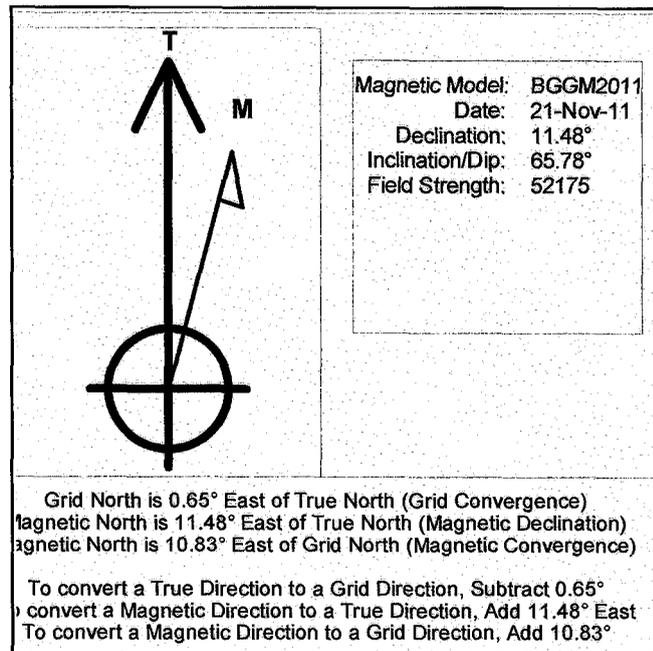
Geographical Coordinates of Well: 40° 09' 23.22" N, 110° 29' 07.98" W

Grid Convergence at Surface is: 0.65°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,527.00ft

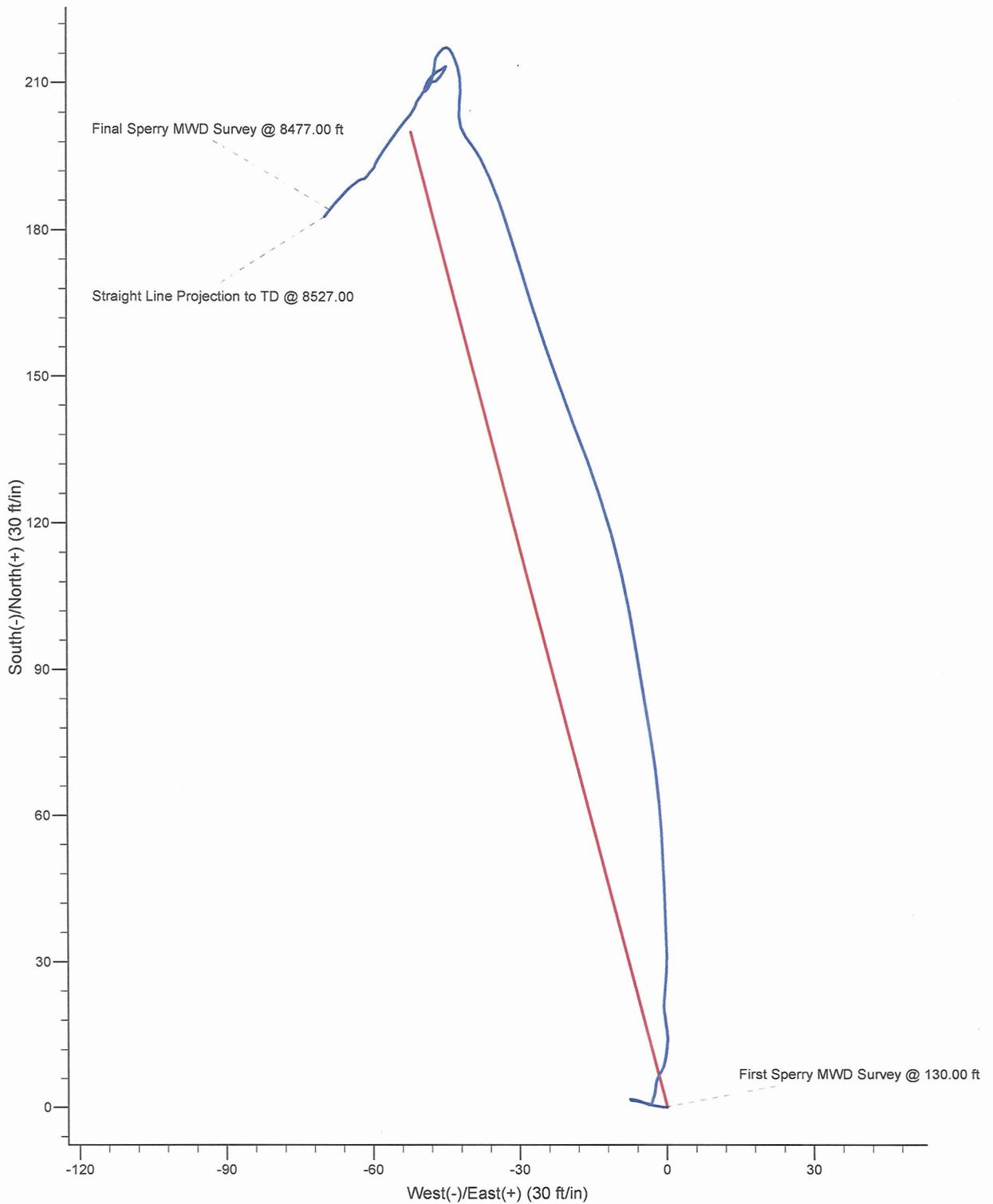
the Bottom Hole Displacement is 195.72ft in the Direction of 339.18° (True).

Magnetic Convergence at surface is: -10.83° (21 November 2011, , BGGM2011)



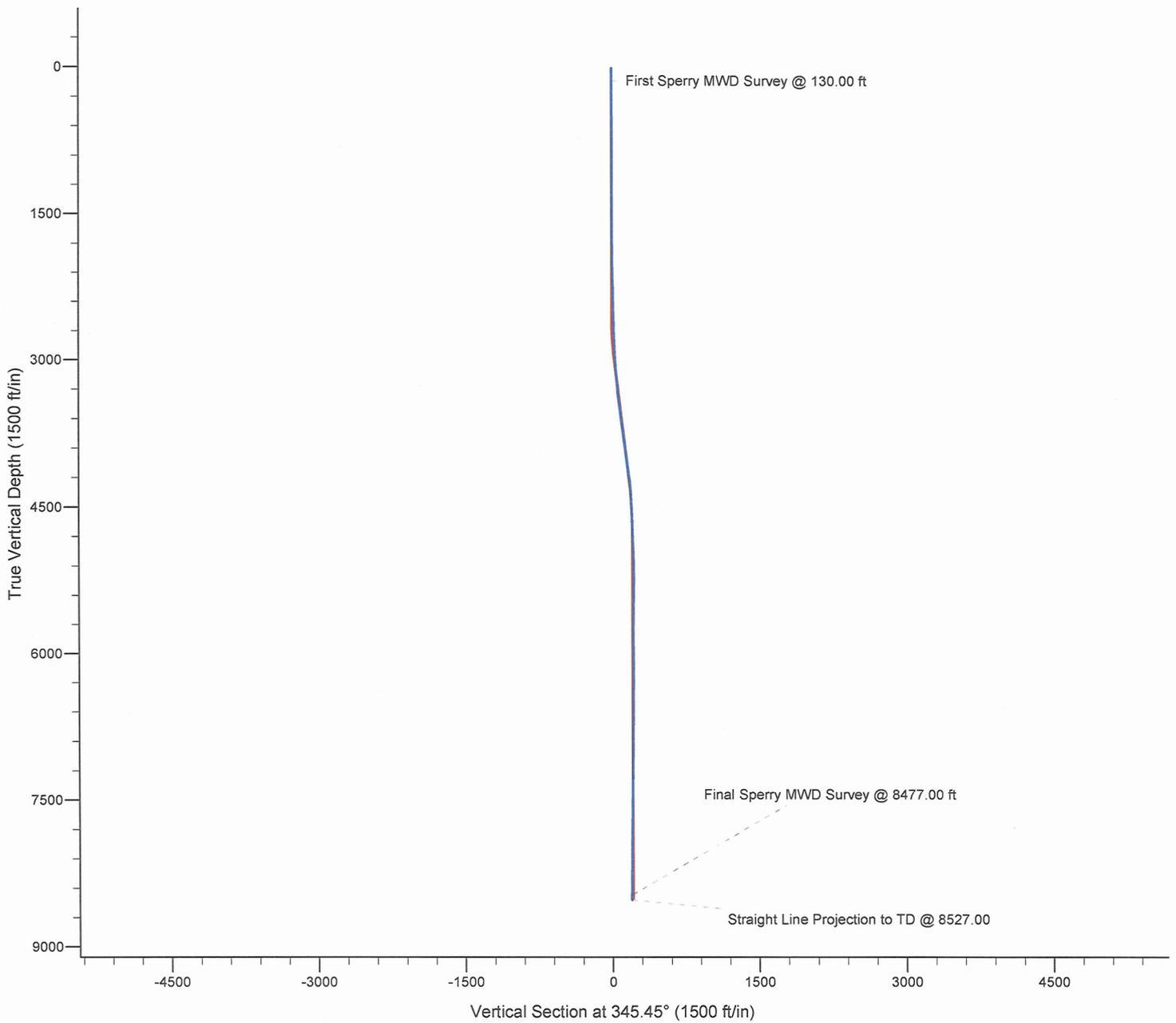
LEGEND

- 16-6D-45 BTR, Plan A Rev 0, Plan A Rev 0 Proposal V0
- Sperry MWD Survey



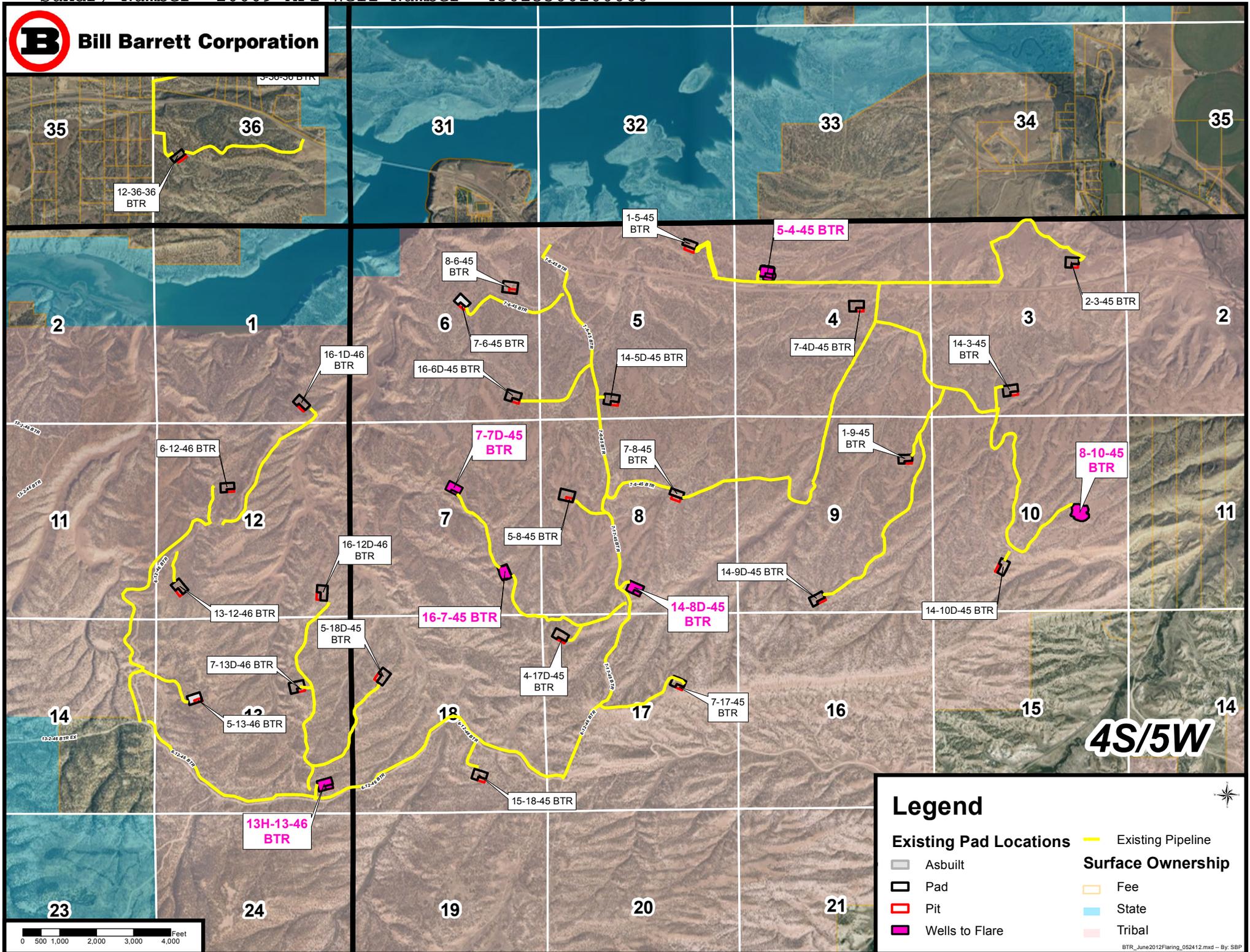
LEGEND

- 16-6D-45 BTR, Plan A Rev 0, Plan A Rev 0 Proposal V0
- Sperry MWD Survey



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6296	
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: 16-6D-45 BTR		
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013506100000		
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: 0608 FSL 0756 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE 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: 5/31/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<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 checked="" type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>BBC hereby requests permission to flare tribal lease wells in our Blacktail Ridge development area located in the Starvation area while El Paso upgrades their existing 6-inch pipeline to a 12-inch to handle current gas production rates. Current operating pressures are approximately 100 psi and the upgrade of the existing line will eliminate the current back pressure concerns such as reservoir damage, surface facility safety issues, production curtailment and lower wellbore recoveries. Additional details are attached.</p>			
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 29, 2012	
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE N/A		DATE 5/29/2012	

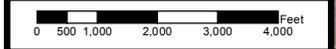
The gas will be flared at the six locations shown on the attached map (5-4-45, 7-7D-45, 8-10-45, 13H-13-46, 14-8D-45, or 16-7-45 wellsites). The flares utilized for combusting the gas have a combustion efficiency of approximately 98%. There are no other delivery points besides the bridge crossing at this point; therefore, associated gas from the oil wells will be flared to continue production of tribal minerals. BBC is requesting flare approval from May 31, 2012 to July 31, 2012 to allow for any potential construction delays. BBC would immediately begin flowing to the pipeline at such time construction is complete. Emergency Dispatch will be notified of the flaring operations. The flaring will also be monitored 24 hours a day by BBC personnel. BBC will still be metering the gas at the wellhead to continue royalty payments. BBC has spoken with the tribe and received their acceptance 05/24/2012 and received BLM sundry approval on 5/24/12.



4S/5W

Legend

Existing Pad Locations	Existing Pipeline
Asbuilt	Surface Ownership
Pad	Fee
Pit	State
Wells to Flare	Tribal



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

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

From: Bill Barrett Corporation

To: Rig II, LLC

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

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

From: Bill Barrett Corporation

To: Rig II, LLC

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

From: Bill Barrett Corporation

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

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

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

New Operator Contact information:

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

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

Sincerely,

Bill Barrett Corporation

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

Brady Riley
Permit Analyst

RECEIVED
OCT 21 2016
DIV. OF OIL, GAS & MINING

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. LEASE DESIGNATION AND SERIAL NUMBER: (see attached well list)	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: (see attached well list)	
9. API NUMBER:	
10. FIELD AND POOL, OR WILDCAT:	

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____	
2. NAME OF OPERATOR: RIG II, LLC <u>N14055</u>	
3. ADDRESS OF OPERATOR: 1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087 PHONE NUMBER: (801) 683-4245	

4. LOCATION OF WELL FOOTAGES AT SURFACE: (see attached well list) COUNTY:	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: STATE: UTAH	

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

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 <u>N21165</u> <u>Duana Zavala</u> NAME (PLEASE PRINT) <u>Duana Zavala</u> SIGNATURE Senior Vice President - EH&S, Government and Regulatory Affairs	RIG II, LLC <u>Jesse McSwain</u> NAME (PLEASE PRINT) <u>Jesse McSwain</u> SIGNATURE Manager
--	--

NAME (PLEASE PRINT) <u>Jesse McSwain</u> SIGNATURE <u>Jesse McSwain</u>	TITLE <u>Manager</u> DATE <u>10/20/16</u>
--	--

(This space for State use only)

APPROVED

NOV 07 2016

DIV. OIL GAS & MINING
BY: Rachael Medina

(5/2000) (See Instructions on Reverse Side)

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

Request to Transfer Application or Permit to Drill

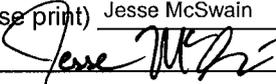
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

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

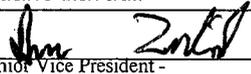
TRANSFER OF AUTHORITY TO INJECT

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

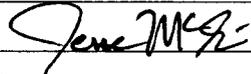
CURRENT OPERATOR

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

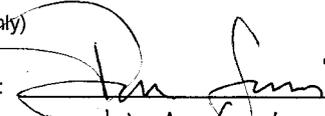
Name: Duane Zavadil
Signature: 
Senior Vice President -
Title: EH&S, Government and Regulatory Affairs
Date: 10/20/16

NEW OPERATOR

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

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

(This space for State use only)

Transfer approved by: 
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

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

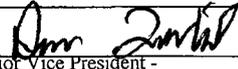
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by: 
Title: VIC

Approval Date: 11/3/16

Comments:

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

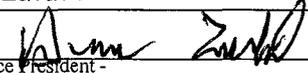
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

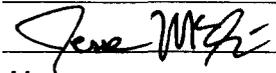
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE	Field or Unit Name CEDAR RIM
QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadil</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: 
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&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.*