

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> 16-33D-35 BTR					
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ALTAMONT					
<b>4. TYPE OF WELL</b> Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>					
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP						<b>7. OPERATOR PHONE</b> 303 312-8134					
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> tfallang@billbarrettcorp.com					
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005608			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Tren Grant						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 801-560-2789					
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> PO Box 891990, Park City, UT 84098						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>					
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>			
LOCATION AT SURFACE		390 FSL 1392 FEL		SW/SE	33	3.0 S	5.0 W	U			
Top of Uppermost Producing Zone		810 FSL 810 FEL		SESE	33	3.0 S	5.0 W	U			
At Total Depth		810 FSL 810 FEL		SESE	33	3.0 S	5.0 W	U			
<b>21. COUNTY</b> DUCHESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 810			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640					
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2600			<b>26. PROPOSED DEPTH</b> MD: 10127 TVD: 10037					
<b>27. ELEVATION - GROUND LEVEL</b> 5671			<b>28. BOND NUMBER</b> LPM8874725			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-180					
<b>Hole, Casing, and Cement Information</b>											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	No Used		0	0.0	0.0
Surf	12.25	9.625	0 - 3100	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown		470	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
Prod	8.75	9.625	0 - 10127	17.0	P-110 LT&C	9.6	Unknown		680	2.31	11.0
							Unknown		910	1.42	13.5
<b>ATTACHMENTS</b>											
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
<b>NAME</b> Venessa Langmacher			<b>TITLE</b> Senior Permit Analyst			<b>PHONE</b> 303 312-8172					
<b>SIGNATURE</b>			<b>DATE</b> 04/25/2013			<b>EMAIL</b> vlangmacher@billbarrettcorp.com					
<b>API NUMBER ASSIGNED</b> 43013521630000			<b>APPROVAL</b>			 Permit Manager					

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

**16-33D-35 BTR**

SW SE, 390' FSL and 1392' FEL, Section 33, T3S-R5W, USB&M (surface hole)  
SE SE, 810' FSL and 810' FEL, Section 33, T3S-R5W, USB&M (bottom hole)  
Duchesne County, Utah

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

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	3,259'	3,259'
Mahogany	3,955'	3,951'
Lower Green River*	5,437'	5,373'
Douglas Creek	6,325'	6,237'
Black Shale	7,236'	7,146'
Castle Peak	7,398'	7,308'
Uteland Butte	7,708'	7,618'
Wasatch*	7,945'	7,855'
TD	10,127'	10,037'

\*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 – 3,100'	No pressure control required
3,100' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	3,100'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
 Drilling Program  
 16-33D-35 BTR  
 Duchesne County, Utah

### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 470 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 2,600'
5 1/2" Production Casing	Lead: 680 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 2,600' Tail: 910 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 6,736'

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 3,100'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
3,100' – TD	8.6 – 9.6	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

### 7. Testing, Logging and Core Programs

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

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5010 psi\* and maximum anticipated surface pressure equals approximately 2802 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

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

Bill Barrett Corporation  
Drilling Program  
16-33D-35 BTR  
Duchesne County, Utah

**9. Auxiliary Equipment**

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

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

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

**11. Drilling Schedule**

Location Construction: November 2013  
Spud: November 2013  
Duration: 15 days drilling time  
6 days completion time



# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

**Well Name:** 16-33D-35 BTR

### Surface Hole Data:

Total Depth:	3,100'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	1425.0	ft <sup>3</sup>
Lead Fill:	2,600'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

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

### Calculated # of Sacks:

# SK's Lead:	470
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	2,600'	

# SK's Tail:	210
--------------	-----

### Production Hole Data:

Total Depth:	10,127'
Top of Cement:	2,600'
Top of Tail:	6,736'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1567.1	ft <sup>3</sup>
Lead Fill:	4,136'	
Tail Volume:	1284.9	ft <sup>3</sup>
Tail Fill:	3,391'	

### Cement Data:

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

### Calculated # of Sacks:

# SK's Lead:	680
# SK's Tail:	910

<b>16-33D-35 BTR Proposed Cementing Program</b>
---

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (2600' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 2,600'
	Volume: 253.78 bbl
	<b>Proposed Sacks: 470 sks</b>
<b>Tail Cement - (TD - 2600')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 2,600'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (6736' - 2600')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 2,600'
	Calculated Fill: 4,136'
	Volume: 279.09 bbl
	<b>Proposed Sacks: 680 sks</b>
<b>Tail Cement - (10127' - 6736')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 6,736'
	Calculated Fill: 3,391'
	Volume: 228.84 bbl
	<b>Proposed Sacks: 910 sks</b>

T3S, R5W, U.S.B.&M.

BILL BARRETT CORPORATION

Well location, #16-33D-35 BTR, located as shown in the SW 1/4 SE 1/4 of Section 33, T3S, R5W, U.S.B.&M., Duchesne County, Utah.

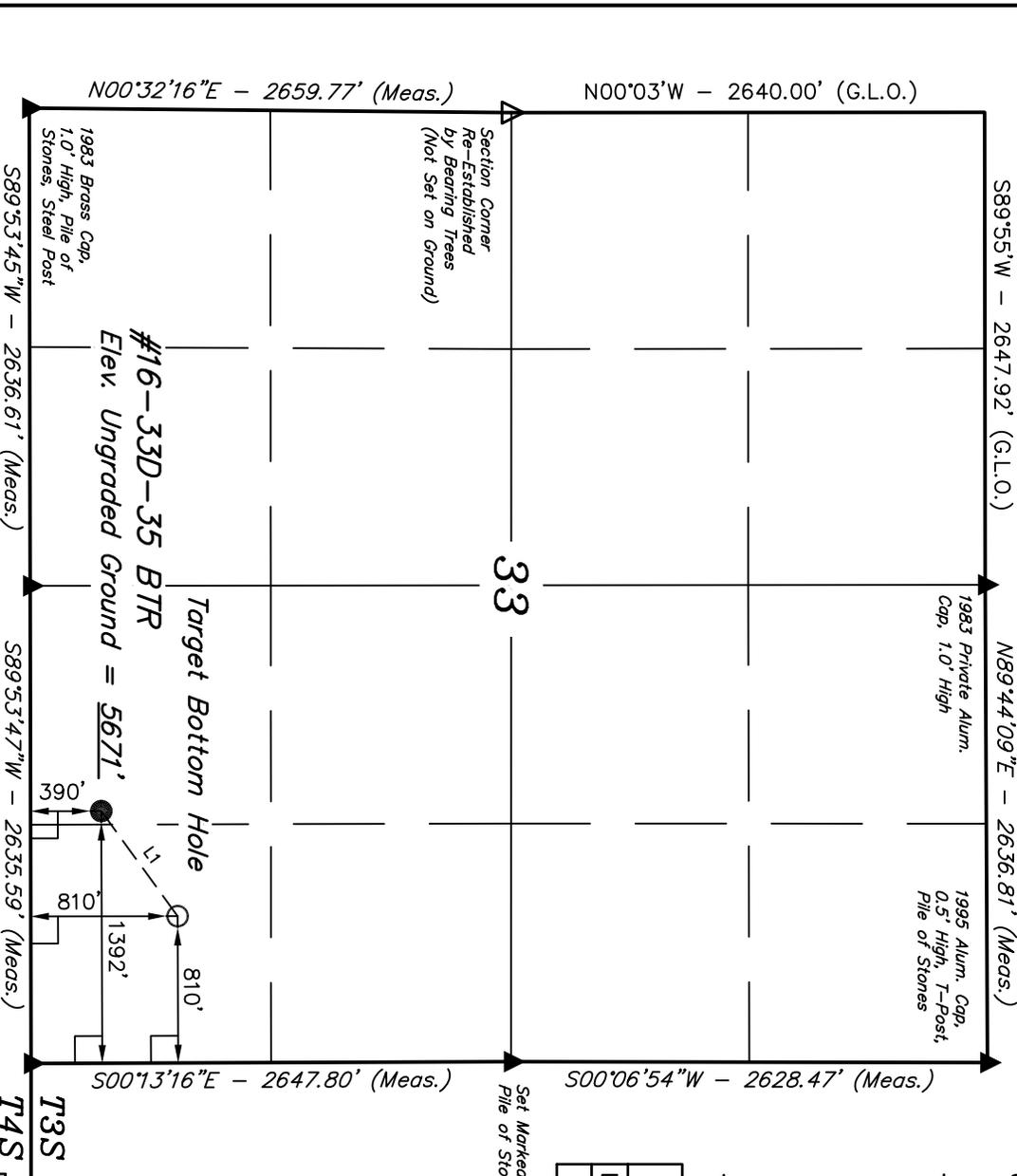
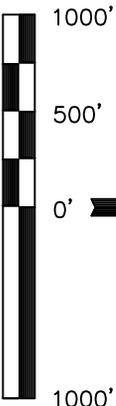
BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N54°00'25"E	716.81'



LEGEND:

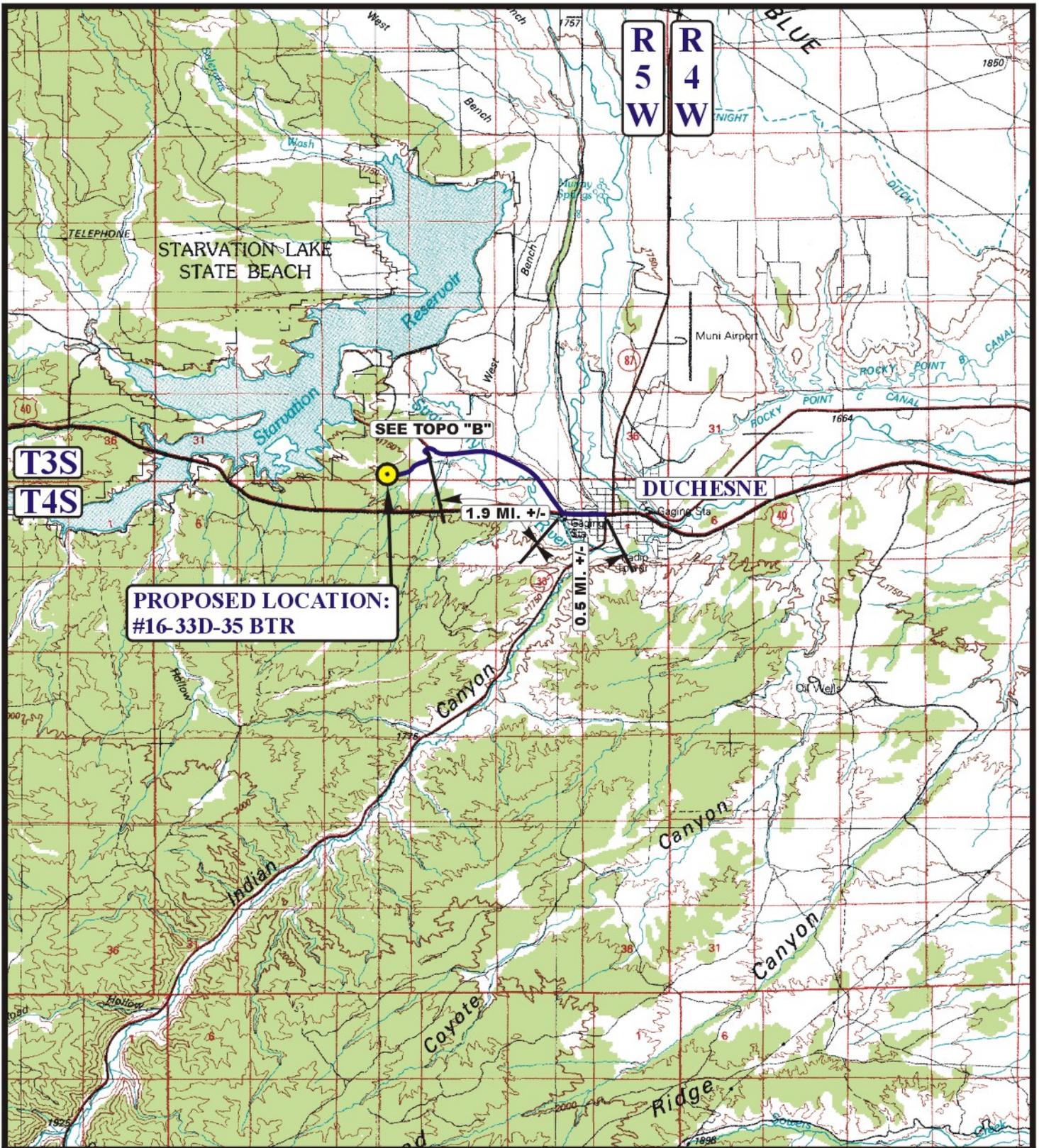
- ◻ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- ◻ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

1983 Brass Cap, 1.8' High, Pile of Stones		1983 Brass Cap, 1.4' High, Pile of Stones, Steel Post	
<b>NAD 83 (TARGET BOTTOM HOLE)</b>			
LATITUDE = 40°10'17.72" (40.171589)	LATITUDE = 40°10'13.55" (40.170431)		
LONGITUDE = 110°28'55.61" (110.448781)	LONGITUDE = 110°27'03.07" (110.450853)		
<b>NAD 27 (TARGET BOTTOM HOLE)</b>			
LATITUDE = 40°10'17.88" (40.171633)	LATITUDE = 40°10'13.71" (40.170475)		
LONGITUDE = 110°28'53.05" (110.448069)	LONGITUDE = 110°27'00.51" (110.450142)		

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

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

SCALE 1" = 1000'	DATE SURVEYED: 08-01-12	DATE DRAWN: 08-06-12
PARTY N.F. M.M. R.L.L.	REFERENCES G.I.O. PLAT	FILE BILL BARRETT CORPORATION
WEATHER HOT		



**LEGEND:**

 PROPOSED LOCATION



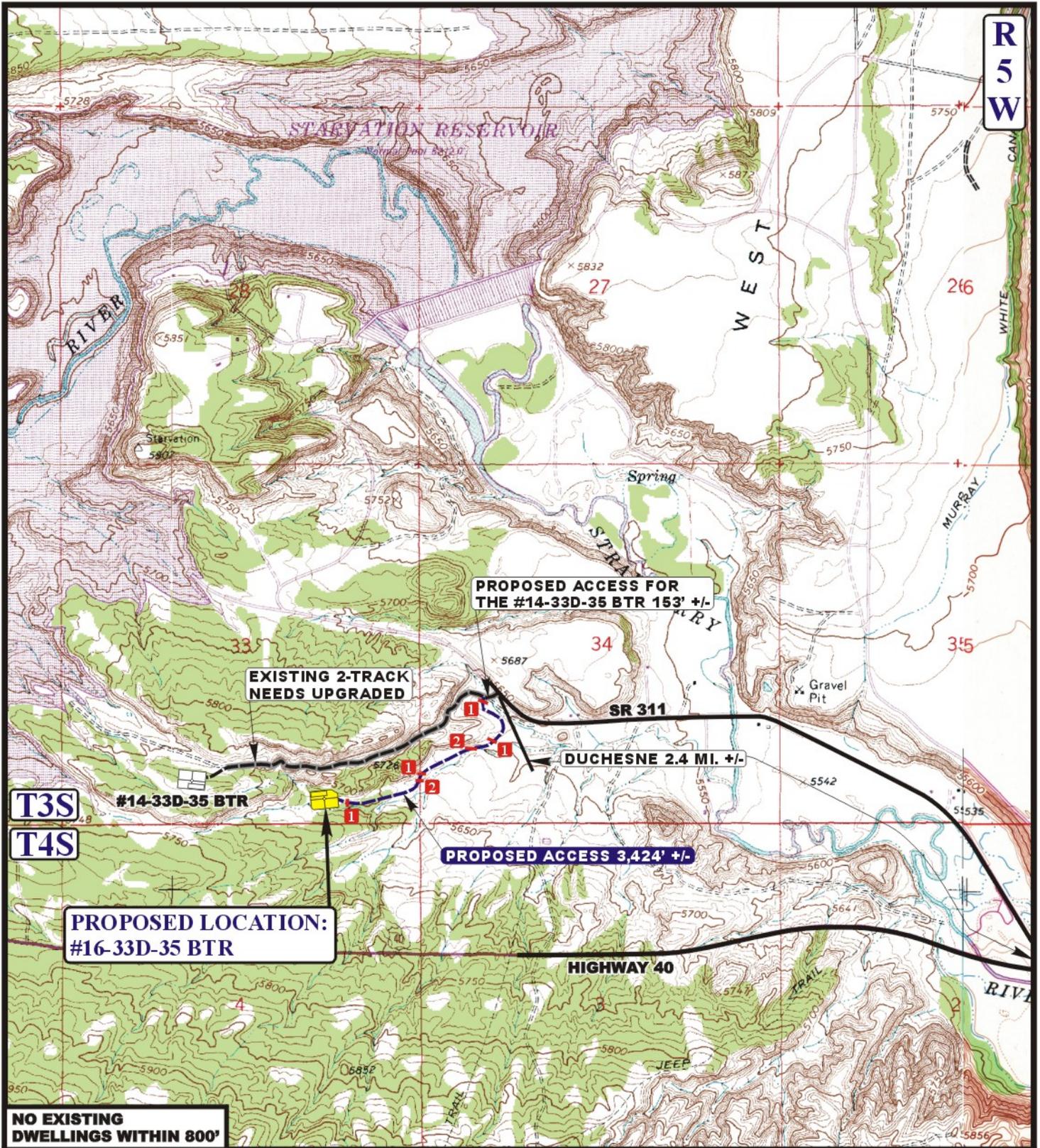
**BILL BARRETT CORPORATION**

**#16-33D-35 BTR**  
**SECTION 33, T3S, R5W, U.S.B.&M.**  
**390' FSL 1392' FEL**



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

ACCESS ROAD MAP	08	08	12	
	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: C.I.		REVISED: 00-00-00	



**LEGEND:**

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



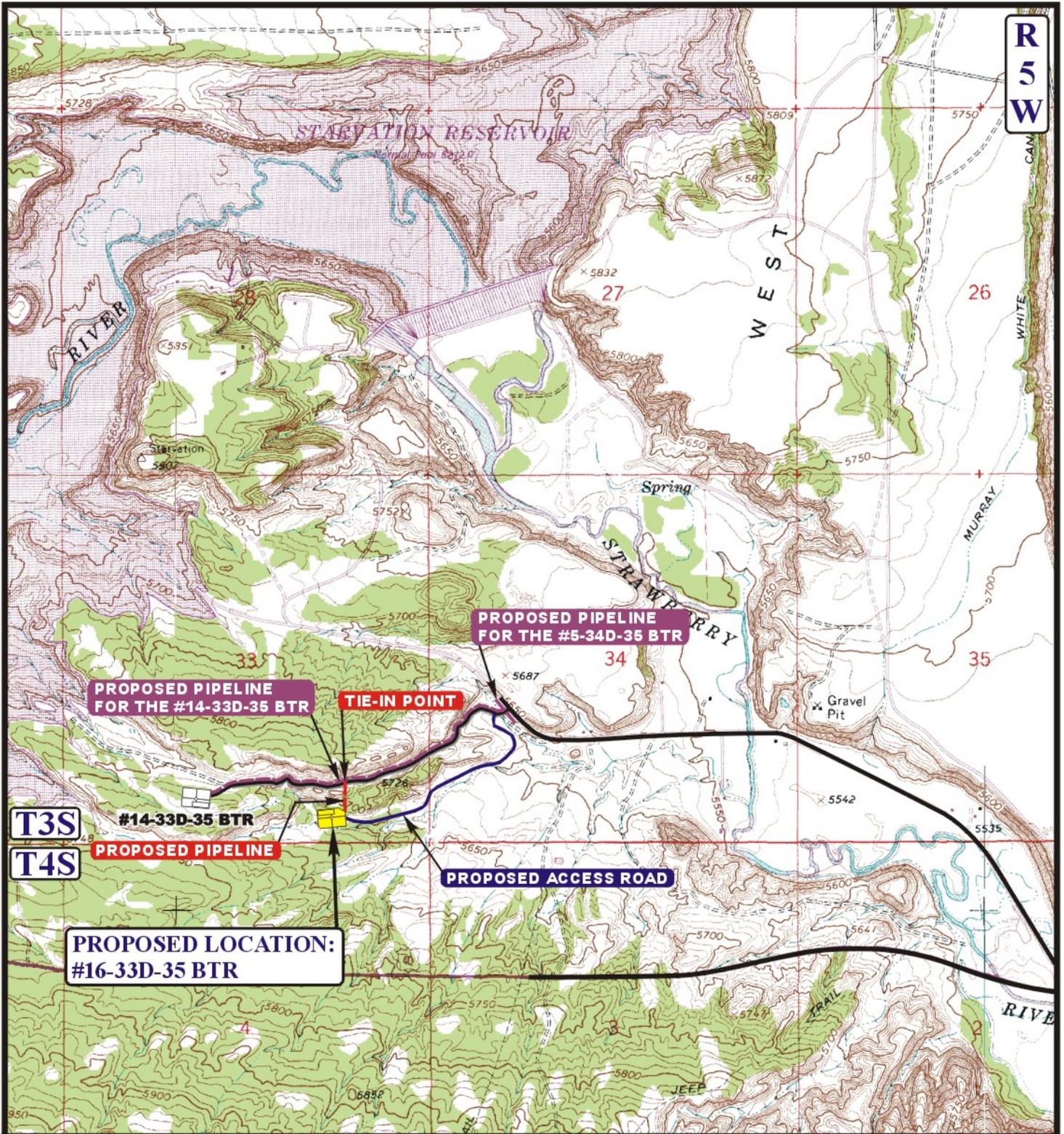
Utah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**#16-33D-35 BTR**  
**SECTION 33, T3S, R5W, U.S.B.&M.**  
**390' FSL 1392' FEL**

<b>ACCESS ROAD MAP</b>	<b>08</b>	<b>08</b>	<b>12</b>	<b>B TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.I.		REVISED: 00-00-00	



**APPROXIMATE TOTAL PIPELINE DISTANCE = 415' +/-**

**LEGEND:**

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

**BILL BARRETT CORPORATION**

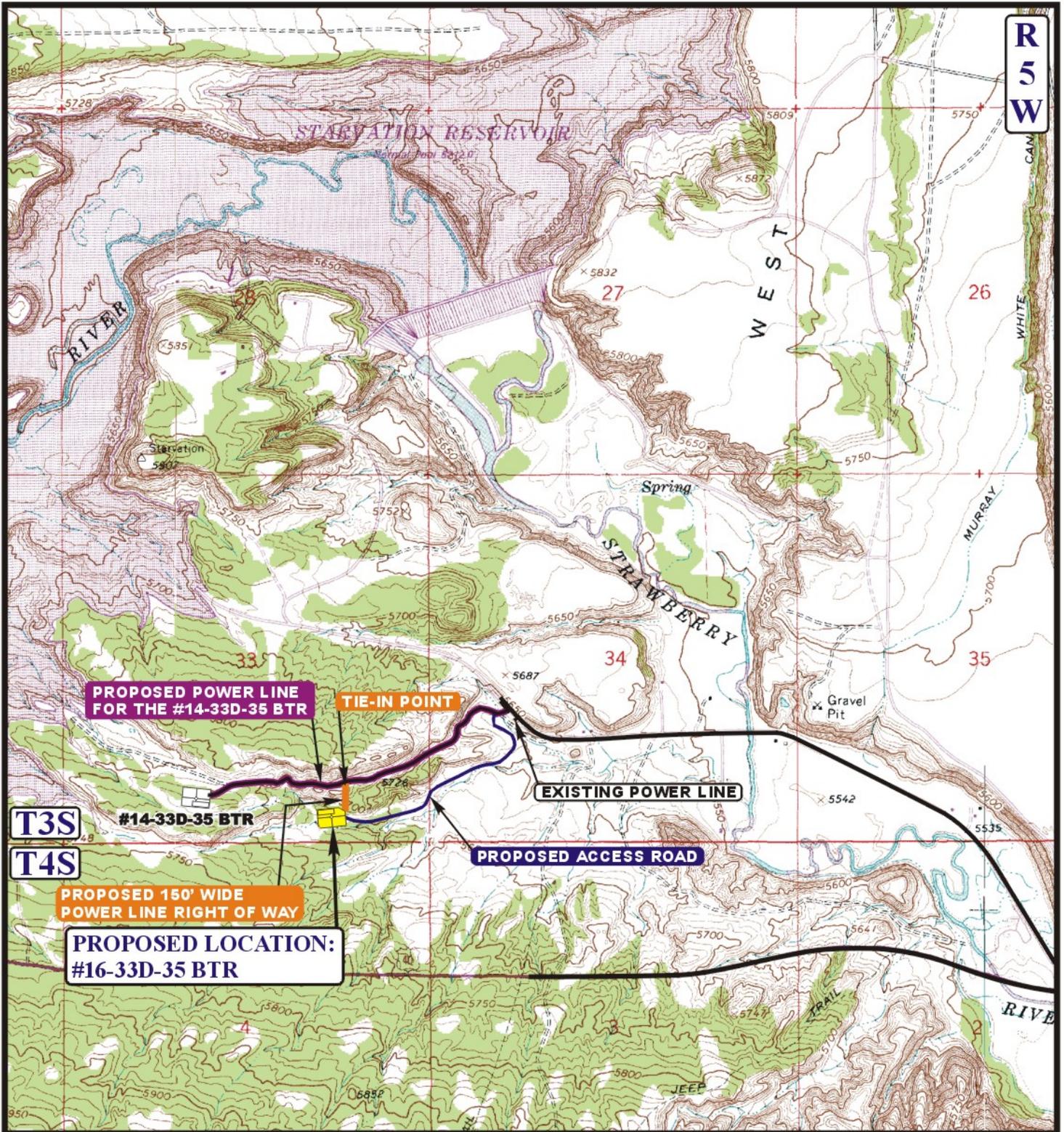
**#16-33D-35 BTR**  
**SECTION 33, T3S, R5W, U.S.B.&M.**  
**390' FSL 1392' FEL**

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



**TOPOGRAPHIC MAP** **08 08 12**  
 MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: C.I. REVISED: 08-29-12





**APPROXIMATE TOTAL POWER LINE DISTANCE = 388' +/-**

**LEGEND:**

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

**BILL BARRETT CORPORATION**

**#16-33D-35 BTR**  
**SECTION 33, T3S, R5W, U.S.B.&M.**  
**390' FSL 1392' FEL**



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



**TOPOGRAPHIC**  
**MAP**

**08 08 12**  
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.I.

REVISED: 08-29-12

**D**  
**TOPO**



SITE DETAILS: 16-33D-35 BTR  
Blacktail Ridge

Site Latitude: 40° 10' 13.710 N  
Site Longitude: 110° 27' 0.511 W

**COMPANY DETAILS: BILL BARRETT CORP**

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

Positional Uncertainty: 0.0  
Convergence: 0.67  
Local North: True

**WELL DETAILS: 16-33D-35 BTR**

Ground Level: 5671.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	670862.87	2293374.97	40° 10' 13.710 N	110° 27' 0.511 W	

**WELLBORE TARGET DETAILS (LAT/LONG)**

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
16-33D-35 BTR 3PT MKR	6694.0	421.8	579.3	40° 10' 17.879 N	110° 26' 53.048 W	Rectangle (Sides: L200.0 W200.0)
16-33D-35 BTR PBHL	10037.0	421.8	579.3	40° 10' 17.879 N	110° 26' 53.048 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

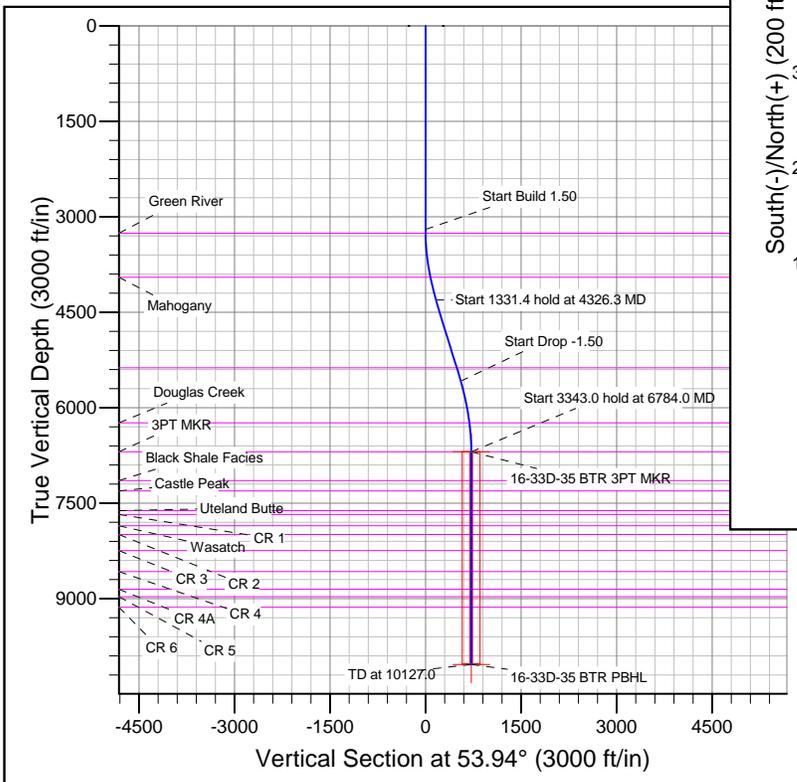
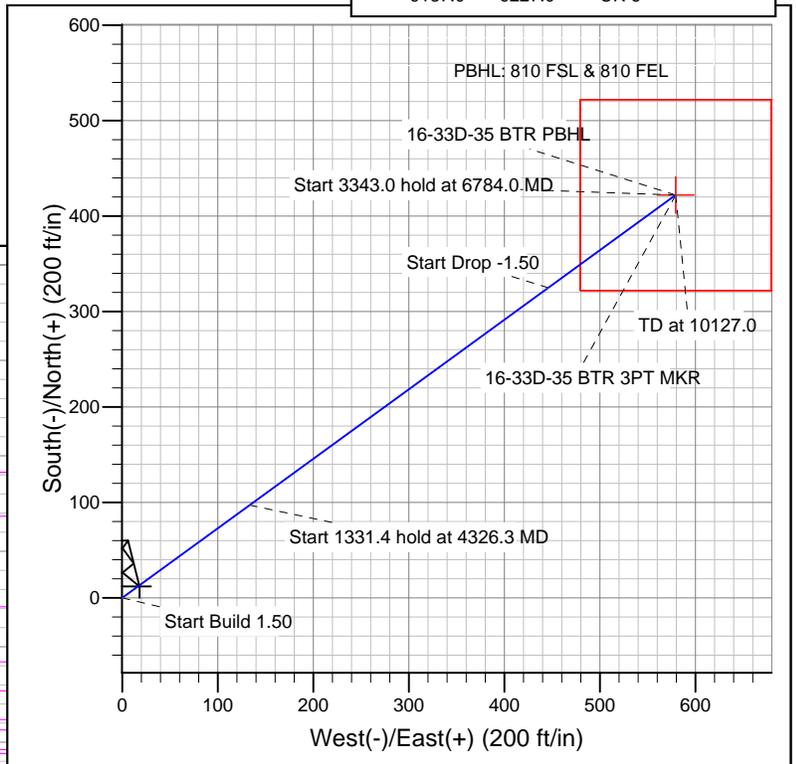
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3200.0	0.00	0.00	3200.0	0.0	0.0	0.00	0.00	0.0	
3	4326.3	16.89	53.94	4310.0	97.0	133.3	1.50	53.94	164.8	
4	5657.7	16.89	53.94	5584.0	324.8	446.0	0.00	0.00	551.8	
5	6784.0	0.00	0.00	6694.0	421.8	579.3	1.50	180.00	716.6	16-33D-35 BTR 3PT MKR
6	10127.0	0.00	0.00	10037.0	421.8	579.3	0.00	0.00	716.6	16-33D-35 BTR PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
3259.0	3259.0	Green River
3951.0	3955.9	Mahogany
5373.0	5437.2	TGR3
6237.0	6325.9	Douglas Creek
6694.0	6784.0	3PT MKR
7146.0	7236.0	Black Shale Facies
7308.0	7398.0	Castle Peak
7618.0	7708.0	Uteland Butte
7678.0	7768.0	CR 1
7855.0	7945.0	Wasatch
7994.0	8084.0	CR 2
8246.0	8336.0	CR 3
8575.0	8665.0	CR 4
8853.0	8943.0	CR 4A
8970.0	9060.0	CR 5
9137.0	9227.0	CR 6

**CASING DETAILS**

No casing data is available



**T**  
**M**  
 Azimuths to True North  
 Magnetic North: 11.25°  
 Magnetic Field  
 Strength: 52099.8snT  
 Dip Angle: 65.77°  
 Date: 4/18/2013  
 Model: IGRF2010

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Site:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	16-33D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

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

<b>Site</b>	16-33D-35 BTR				
<b>Site Position:</b>		<b>Northing:</b>	670,862.87 ft	<b>Latitude:</b>	40° 10' 13.710 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,293,374.97 ft	<b>Longitude:</b>	110° 27' 0.511 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.67 °

<b>Well</b>	16-33D-35 BTR					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	670,862.87 ft	<b>Latitude:</b>	40° 10' 13.710 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,293,374.97 ft	<b>Longitude:</b>	110° 27' 0.511 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,671.0 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/18/2013	11.25	65.77	52,100

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	53.94

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
4,326.3	16.89	53.94	4,310.0	97.0	133.3	1.50	1.50	0.00	53.94	
5,657.7	16.89	53.94	5,584.0	324.8	446.0	0.00	0.00	0.00	0.00	
6,784.0	0.00	0.00	6,694.0	421.8	579.3	1.50	-1.50	0.00	180.00	16-33D-35 BTR 3PT I
10,127.0	0.00	0.00	10,037.0	421.8	579.3	0.00	0.00	0.00	0.00	16-33D-35 BTR PBHL

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Site:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	16-33D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
<b>Start Build 1.50</b>										
3,259.0	0.89	53.94	3,259.0	0.3	0.4	0.5	1.50	1.50	0.00	
<b>Green River</b>										
3,300.0	1.50	53.94	3,300.0	0.8	1.1	1.3	1.50	1.50	0.00	
3,400.0	3.00	53.94	3,399.9	3.1	4.2	5.2	1.50	1.50	0.00	
3,500.0	4.50	53.94	3,499.7	6.9	9.5	11.8	1.50	1.50	0.00	
3,600.0	6.00	53.94	3,599.3	12.3	16.9	20.9	1.50	1.50	0.00	
3,700.0	7.50	53.94	3,698.6	19.2	26.4	32.7	1.50	1.50	0.00	
3,800.0	9.00	53.94	3,797.5	27.7	38.0	47.0	1.50	1.50	0.00	
3,900.0	10.50	53.94	3,896.1	37.7	51.7	64.0	1.50	1.50	0.00	
3,955.9	11.34	53.94	3,951.0	43.9	60.3	74.6	1.50	1.50	0.00	
<b>Mahogany</b>										
4,000.0	12.00	53.94	3,994.2	49.1	67.5	83.5	1.50	1.50	0.00	
4,100.0	13.50	53.94	4,091.7	62.1	85.3	105.5	1.50	1.50	0.00	
4,200.0	15.00	53.94	4,188.6	76.6	105.2	130.2	1.50	1.50	0.00	
4,300.0	16.50	53.94	4,284.9	92.6	127.2	157.3	1.50	1.50	0.00	
4,326.3	16.89	53.94	4,310.0	97.0	133.3	164.8	1.50	1.50	0.00	
<b>Start 1331.4 hold at 4326.3 MD</b>										
4,400.0	16.89	53.94	4,380.6	109.6	150.6	186.3	0.00	0.00	0.00	
4,500.0	16.89	53.94	4,476.3	126.8	174.1	215.3	0.00	0.00	0.00	
4,600.0	16.89	53.94	4,571.9	143.9	197.6	244.4	0.00	0.00	0.00	

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Site:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	16-33D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,700.0	16.89	53.94	4,667.6	161.0	221.1	273.5	0.00	0.00	0.00
4,800.0	16.89	53.94	4,763.3	178.1	244.5	302.5	0.00	0.00	0.00
4,900.0	16.89	53.94	4,859.0	195.2	268.0	331.6	0.00	0.00	0.00
5,000.0	16.89	53.94	4,954.7	212.3	291.5	360.6	0.00	0.00	0.00
5,100.0	16.89	53.94	5,050.4	229.4	315.0	389.7	0.00	0.00	0.00
5,200.0	16.89	53.94	5,146.0	246.5	338.5	418.8	0.00	0.00	0.00
5,300.0	16.89	53.94	5,241.7	263.6	362.0	447.8	0.00	0.00	0.00
5,400.0	16.89	53.94	5,337.4	280.7	385.5	476.9	0.00	0.00	0.00
5,437.2	16.89	53.94	5,373.0	287.1	394.2	487.7	0.00	0.00	0.00
<b>TGR3</b>									
5,500.0	16.89	53.94	5,433.1	297.8	409.0	505.9	0.00	0.00	0.00
5,600.0	16.89	53.94	5,528.8	314.9	432.5	535.0	0.00	0.00	0.00
5,657.7	16.89	53.94	5,584.0	324.8	446.0	551.8	0.00	0.00	0.00
<b>Start Drop -1.50</b>									
5,700.0	16.26	53.94	5,624.5	331.9	455.8	563.8	1.50	-1.50	0.00
5,800.0	14.76	53.94	5,720.9	347.6	477.4	590.6	1.50	-1.50	0.00
5,900.0	13.26	53.94	5,817.9	361.9	497.0	614.8	1.50	-1.50	0.00
6,000.0	11.76	53.94	5,915.5	374.6	514.5	636.4	1.50	-1.50	0.00
6,100.0	10.26	53.94	6,013.7	385.9	529.9	655.5	1.50	-1.50	0.00
6,200.0	8.76	53.94	6,112.3	395.6	543.3	672.0	1.50	-1.50	0.00
6,300.0	7.26	53.94	6,211.3	403.8	554.5	686.0	1.50	-1.50	0.00
6,325.9	6.87	53.94	6,237.0	405.7	557.1	689.2	1.50	-1.50	0.00
<b>Douglas Creek</b>									
6,400.0	5.76	53.94	6,310.7	410.5	563.7	697.3	1.50	-1.50	0.00
6,500.0	4.26	53.94	6,410.3	415.6	570.8	706.0	1.50	-1.50	0.00
6,600.0	2.76	53.94	6,510.1	419.2	575.7	712.2	1.50	-1.50	0.00
6,700.0	1.26	53.94	6,610.1	421.3	578.5	715.7	1.50	-1.50	0.00
6,784.0	0.00	0.00	6,694.0	421.8	579.3	716.6	1.50	-1.50	-64.25
<b>Start 3343.0 hold at 6784.0 MD - 3PT MKR</b>									
6,800.0	0.00	0.00	6,710.0	421.8	579.3	716.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,810.0	421.8	579.3	716.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,910.0	421.8	579.3	716.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,010.0	421.8	579.3	716.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,110.0	421.8	579.3	716.6	0.00	0.00	0.00
7,236.0	0.00	0.00	7,146.0	421.8	579.3	716.6	0.00	0.00	0.00
<b>Black Shale Facies</b>									
7,300.0	0.00	0.00	7,210.0	421.8	579.3	716.6	0.00	0.00	0.00
7,398.0	0.00	0.00	7,308.0	421.8	579.3	716.6	0.00	0.00	0.00
<b>Castle Peak</b>									
7,400.0	0.00	0.00	7,310.0	421.8	579.3	716.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,410.0	421.8	579.3	716.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,510.0	421.8	579.3	716.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,610.0	421.8	579.3	716.6	0.00	0.00	0.00
7,708.0	0.00	0.00	7,618.0	421.8	579.3	716.6	0.00	0.00	0.00
<b>Uteland Butte</b>									
7,768.0	0.00	0.00	7,678.0	421.8	579.3	716.6	0.00	0.00	0.00
<b>CR 1</b>									
7,800.0	0.00	0.00	7,710.0	421.8	579.3	716.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,810.0	421.8	579.3	716.6	0.00	0.00	0.00
7,945.0	0.00	0.00	7,855.0	421.8	579.3	716.6	0.00	0.00	0.00
<b>Wasatch</b>									
8,000.0	0.00	0.00	7,910.0	421.8	579.3	716.6	0.00	0.00	0.00
8,084.0	0.00	0.00	7,994.0	421.8	579.3	716.6	0.00	0.00	0.00

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Site:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	16-33D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
<b>CR 2</b>										
8,100.0	0.00	0.00	8,010.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,110.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,210.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,336.0	0.00	0.00	8,246.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>CR 3</b>										
8,400.0	0.00	0.00	8,310.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,410.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,510.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,665.0	0.00	0.00	8,575.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>CR 4</b>										
8,700.0	0.00	0.00	8,610.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,710.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,810.0	421.8	579.3	716.6	0.00	0.00	0.00	
8,943.0	0.00	0.00	8,853.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>CR 4A</b>										
9,000.0	0.00	0.00	8,910.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,060.0	0.00	0.00	8,970.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>CR 5</b>										
9,100.0	0.00	0.00	9,010.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,110.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,227.0	0.00	0.00	9,137.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>CR 6</b>										
9,300.0	0.00	0.00	9,210.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,310.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,410.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,510.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,610.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,710.0	421.8	579.3	716.6	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,810.0	421.8	579.3	716.6	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,910.0	421.8	579.3	716.6	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,010.0	421.8	579.3	716.6	0.00	0.00	0.00	
10,127.0	0.00	0.00	10,037.0	421.8	579.3	716.6	0.00	0.00	0.00	
<b>TD at 10127.0</b>										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
16-33D-35 BTR 3PT MK - hit/miss target - Shape - Rectangle (sides W200.0 H200.0 D3,343.0)	0.00	0.00	6,694.0	421.8	579.3	671,291.46	2,293,949.27	40° 10' 17.879 N	110° 26' 53.048 W	
16-33D-35 BTR PBHL - plan hits target - Rectangle (sides W200.0 H200.0 D0.0)	0.00	0.00	10,037.0	421.8	579.3	671,291.46	2,293,949.27	40° 10' 17.879 N	110° 26' 53.048 W	

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 5686.0ft (Original Well Elev)
<b>Site:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Well:</b>	16-33D-35 BTR	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

## Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,259.0	3,259.0	Green River		0.00	
3,955.9	3,951.0	Mahogany		0.00	
5,437.2	5,373.0	TGR3		0.00	
6,325.9	6,237.0	Douglas Creek		0.00	
6,784.0	6,694.0	3PT MKR		0.00	
7,236.0	7,146.0	Black Shale Facies		0.00	
7,398.0	7,308.0	Castle Peak		0.00	
7,708.0	7,618.0	Uteland Butte		0.00	
7,768.0	7,678.0	CR 1		0.00	
7,945.0	7,855.0	Wasatch		0.00	
8,084.0	7,994.0	CR 2		0.00	
8,336.0	8,246.0	CR 3		0.00	
8,665.0	8,575.0	CR 4		0.00	
8,943.0	8,853.0	CR 4A		0.00	
9,060.0	8,970.0	CR 5		0.00	
9,227.0	9,137.0	CR 6		0.00	

## Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
3,200.0	3,200.0	0.0	0.0	Start Build 1.50
4,326.3	4,310.0	97.0	133.3	Start 1331.4 hold at 4326.3 MD
5,657.7	5,584.0	324.8	446.0	Start Drop -1.50
6,784.0	6,694.0	421.8	579.3	Start 3343.0 hold at 6784.0 MD
10,127.0	10,037.0	421.8	579.3	TD at 10127.0

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

This Agreement, made and entered into this the 5th day of March, 2013, by and between Tren J. Grant, PO Box 891990, Park City, UT 84098-1990; Norma Grant Earl, Rt. 4 Box 3074, Roosevelt, UT 84066-0000; JoAnn McNeill, as Trustee of The JoAnn McNeill Trust, PO Box 199, Duchesne, UT 84021 ("Surface Owner") and Bill Barrett Corporation, 1099 18<sup>th</sup> Street, Suite 2300, Denver CO 80202, ("BBC").

WITNESSETH THAT:

WHEREAS, BBC owns undivided interests in certain oil and gas leases ("leases") covering and affecting All of Section 33, Township 3 South, Range 5 West, USM, of Duchesne County, Utah; and,

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

WHEREAS, BBC, pursuant to its rights under the Leases, intends to drill the #16-33D-35 Black Tail Ridge well at a legal drill-site location in the SE/4 Section 33, Township 3 South, Range 5 West, USM, Duchesne County, Utah; and,

WHEREAS, Surface Owner warrants ownership to the surface of at least specific portions of the SE/4 Section 33, Township 3 South, Range 5 West, USM, Duchesne County, Utah, and which warranted ownership is further subject to all oil, gas and other mineral rights which are reserved for the use and benefit of the owners thereof; and,

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

Surface Owner and BBC do hereby release, discharge and acquit the other from any and all liability, and shall indemnify the other against any and all claims and demands for damages, attorneys fees, injury or loss, existing now or done hereafter, to the surface of said lands or to any third parties arising out of or being the result of their or their agents, contractors licensees, permittees, successors and assigns own activities on or use of the subject property. However, such parties' potential liability under this paragraph to the other shall be limited to the acts and/or omission of its, or its predecessors, agents, contractors, licensees, permittees, successor and assigns, and shall not include any acts and/or omissions of the other party, it agents, contractors, licensees, permittees, successors or assigns. BBC shall reasonably maintain the subject property in order to prevent unnecessary deterioration of the surface and to keep the property in an uncluttered condition.

Any topsoil which is removed by BBC on Surface Owner's land will be stockpiled at the drillsite and will be redistributed on the drillsite upon completion of all operations, and the land reseeded with grasses and/or native plants by BBC upon written request by Surface Owner. All mud pits will be filled and material and debris will be removed from the drillsite upon completion of operations. BBC shall remove from the lands covered hereby, at any time during the term hereof or within six (6) months after the plugging and abandonment of the well drilled pursuant to this Agreement, any or all structures, pipes, equipment and other facilities placed on, over, under, through and across any lands covered hereby, excepting fences, culverts, and other land improvements required by the Surface Owner, and title thereto shall be vested in BBC at all times, and shall in no event be considered or construed as fixtures thereto.

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

BBC shall repair any fences and gates damaged by them during the course of their operations on the lands subject to this Agreement. BBC will provide and install a 39" woven field fence with 2 strands barbed wire around the well site location with a cattle guard at the entrance.

During production, BBC will work to reduce offsite light and sound pollution by either shielding or switching the well site location lighting and utilizing electric driven pump jacks. In the event electric driven pump jacks are not feasible, alternate power sources will be muffled.



ACKNOWLEDGMENT

STATE OF UTAH )  
COUNTY OF Duchesne )

On the 14 day of March, 2013, personally appeared before me **Norma Grant Earl** known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purpose and consideration therein expressed.

 My Commission Expires: 9.14.2014

Mary Stewart  
Notary Public  
Residing at:

ACKNOWLEDGMENT

STATE OF UTAH )  
COUNTY OF Duchesne )

On the 14<sup>th</sup> day of March, 2013, personally appeared before me **JoAnn McNeill, as trustee of The JoAnn McNeill Trust**, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that she executed the same for the purpose and consideration therein expressed.

My Commission Expires: 1.6.2015

Jennifer Adams  
Notary Public  
Residing at:



ACKNOWLEDGMENT

STATE OF COLORADO )  
COUNTY OF )

On this 28<sup>th</sup> day of March, 2013 personally appeared before me **Huntington T. Walker**, who, being by me duly sworn, did say that he is the Senior VP Land for Bill Barrett Corporation and that said instrument was signed in behalf of said corporation.

TEALE P. STONE  
NOTARY PUBLIC  
STATE OF COLORADO  
NOTARY ID # 20124021619  
MY COMMISSION EXPIRES FEBRUARY 06, 2017

Teale P. Stone  
Notary Public  
Residing at:

My Commission Expires: \_\_\_\_\_

# EXHIBIT A

BILL BARRETT CORPORATION

## LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON FEE LANDS

(For #16-33D-35 BTR)

LOCATED IN SECTIONS 33 & 34, T3S, R5W, U.S.B.&M., DUCHESNE COUNTY, UTAH

Sec. 34

### SURFACE USE AREA DESCRIPTION

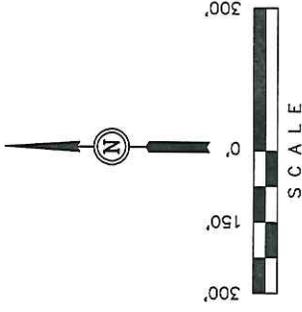
BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 33, T3S, R5W, U.S.B.&M. WHICH BEARS N72°33'49"W 1221.94' FROM THE SOUTHEAST CORNER OF SAID SECTION 33, THENCE S04°24'26"E 131.47'; THENCE S85°35'34"W 490.00'; THENCE N04°24'26"W 335.00'; THENCE N85°35'34"E 490.00'; THENCE S04°24'26"E 203.53' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.768 ACRES MORE OR LESS.

Proposed Access for the #14-33d-35

BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 (Proposed Access for the #14-33d-35)

Tren J. Grant

1/16 Section Line SW 1/4



SCALE

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

### RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
TREN J. GRANT	3396.08	2.339	205.82

### CERTIFICATE

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



UNTAH ENGINEERING & LAND SURVEYING  
85 SOUTH - 200 EAST • (435) 789-1077  
VERNAL, UTAH - 84078

SCALE	1" = 300'
DATE	08-09-12
PARTY	N.F. M.M. R.L.L.
REFERENCES	G.L.O. PLAT
WEATHER	HOT
FILE	5 2 6 1 0

1/4 Section Line

### ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NW 1/4 SW 1/4 OF SECTION 34, T3S, R5W, U.S.B.&M. WHICH BEARS S49°31'44"E 1231.37' FROM THE WEST 1/4 CORNER OF SAID SECTION 34, THENCE S12°03'46"W 84.61'; THENCE S04°38'06"E 49.98'; THENCE S38°43'08"E 57.01'; THENCE S62°07'14"E 258.42'; THENCE S28°28'08"E 101.66'; THENCE S10°12'12"W 84.79'; THENCE S55°02'42"W 143.16'; THENCE S86°39'39"W 171.93'; THENCE S68°54'50"W 189.58'; THENCE S60°35'16"W 238.54'; THENCE S68°44'24"W 294.38'; THENCE S47°54'58"W 144.62'; THENCE S24°30'52"W 61.62' TO A POINT ON THE WEST LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 34 WHICH BEARS N00°13'16"W 690.95' FROM THE SOUTHWEST CORNER OF SAID SECTION 34; THENCE S24°30'52"W 44.49'; THENCE S21°33'42"W 143.03'; THENCE S74°30'10"W 165.91'; THENCE S75°59'02"W 350.18'; THENCE S73°24'21"W 83.91'; THENCE S76°39'46"W 170.39'; THENCE S84°47'01"W 148.78'; THENCE N85°28'58"W 92.83'; THENCE N65°50'40"W 115.68'; THENCE TO A POINT IN THE SE 1/4 SE 1/4 OF SECTION 33, T3S, R5W, U.S.B.&M. WHICH BEARS N72°33'49"W 1221.94' FROM THE SOUTHEAST CORNER OF SAID SECTION 33. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 2.339 ACRES MORE OR LESS.

SE 1/4

Tren J. Grant

SURFACE USE AREA #16-33D-35 BTR Contains 3.768 Acres

Tren J. Grant

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 33+96.08 (At Edge of Surface Use Area)



S 1/4 Sec. 33, 1963 Brass Cap, 1.8' High, Pile of Stones

1983 Brass Cap, 1.4' High, Pile of Stones, Steel Post

T3S

T4S

S89°53'47"W - 2635.59' (Meas.)

Section Line

LINE	DIRECTION	LENGTH
L1	S12°03'46"W	84.61'
L2	S04°38'06"E	49.98'
L3	S38°43'08"E	57.01'
L4	S62°07'14"E	258.42'
L5	S28°28'08"E	101.66'
L6	S10°12'12"W	84.79'
L7	S55°02'42"W	143.16'
L8	S86°39'39"W	171.93'
L9	S60°35'16"W	238.54'
L10	S68°54'50"W	189.58'
L11	S68°44'24"W	294.38'
L12	S47°54'58"W	144.62'
L13	S24°30'52"W	61.62'

LINE	DIRECTION	LENGTH
L16	S24°30'52"W	44.49'
L17	S21°33'42"W	143.03'
L18	S74°30'10"W	165.91'
L19	S75°59'02"W	350.18'
L20	S73°24'21"W	83.91'
L21	S76°39'46"W	170.39'
L22	S84°47'01"W	148.78'
L23	N85°28'58"W	92.83'
L24	N65°50'40"W	115.68'
L25	N85°50'40"W	28.46'
L26	S04°24'26"E	131.47'
L27	S85°35'34"W	490.00'
L28	N04°24'26"W	335.00'
L29	N85°35'34"E	490.00'
L30	S04°24'26"E	203.53'

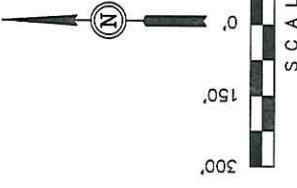
SE Cor. Sec. 34, Alum. Cap, 1.1' High, Pile of Stones

N89°29'23"E - 5262.74' (Meas.)

# EXHIBIT B

**BILL BARRETT CORPORATION**  
**PIPELINE RIGHT-OF-WAY**  
**ON FEE LANDS**  
**(#16-33D-35 BTR)**

LOCATED IN  
 SECTIONS 33 & 34, T3S, R5W, U.S.B.&M.,  
 DUCHESNE COUNTY, UTAH



**BASIS OF BEARINGS**

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

**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
TREN J. GRANT	314.01	0.216	19.03

**CERTIFICATE**

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

**REGISTERED LAND SURVEYOR**  
 STATE OF UTAH  
 REGISTRATION NO. 161319  
 DATE 08-27-12

REVISED: 08-27-12

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

SCALE 1" = 300'

PARTY N.F. M.M. R.L.L.

DATE 08-09-12

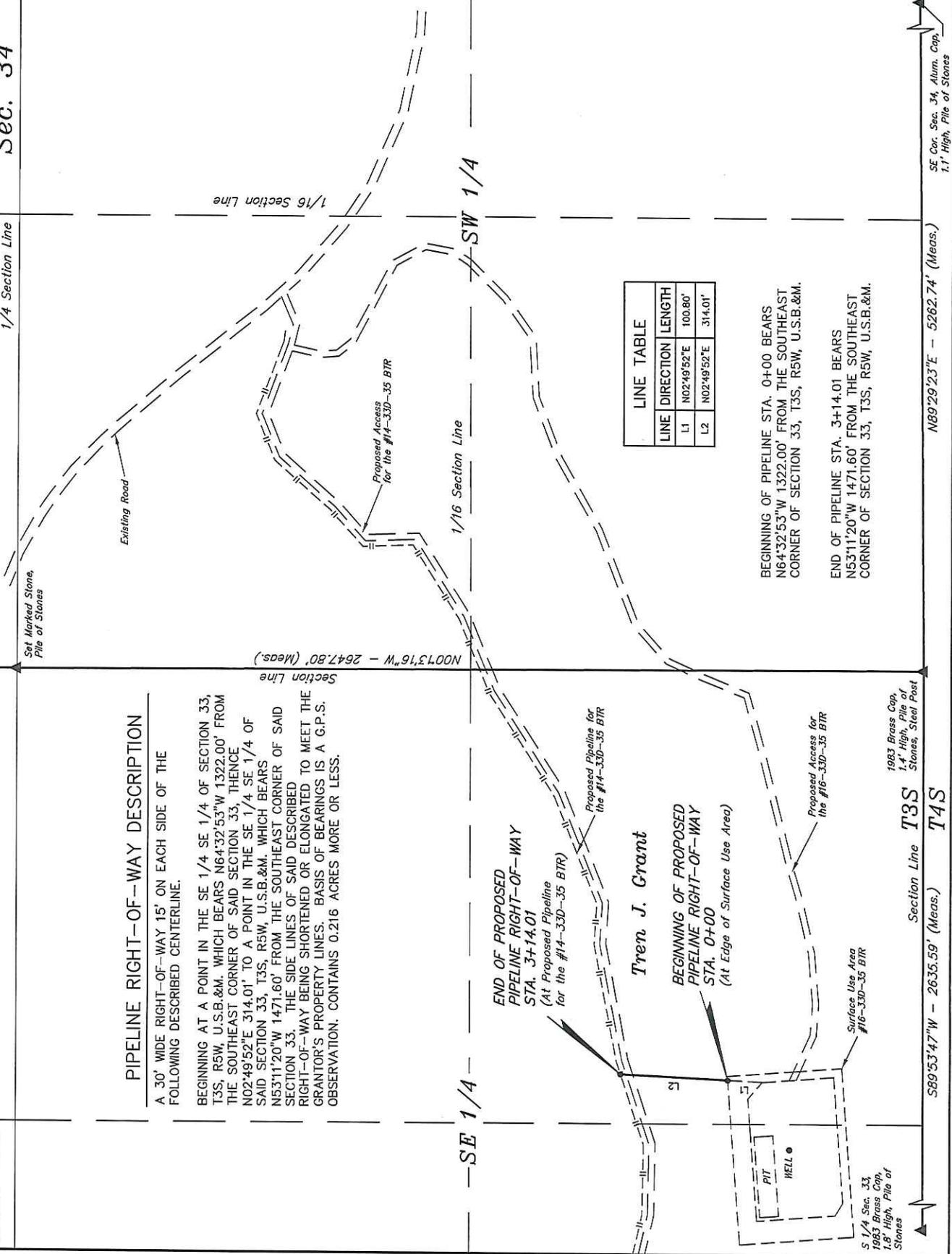
REFERENCES G.L.O. PLAT

WEATHER HOT

FILE 5 2 6 1 1

Sec. 34

1/4 Section Line



**LINE TABLE**

LINE	DIRECTION	LENGTH
L1	N02°49'52"E	100.80'
L2	N02°49'52"E	314.01'

BEGINNING OF PIPELINE STA. 0+00 BEARS  
 N64°32'53"W 1322.00' FROM THE SOUTHEAST  
 CORNER OF SECTION 33, T3S, R5W, U.S.B.&M.

END OF PIPELINE STA. 3+14.01 BEARS  
 N53°11'20"W 1471.60' FROM THE SOUTHEAST  
 CORNER OF SECTION 33, T3S, R5W, U.S.B.&M.

▲ = SECTION CORNERS LOCATED.

**PIPELINE RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE SE 1/4 SE 1/4 OF SECTION 33, T3S, R5W, U.S.B.&M. WHICH BEARS N64°32'53"W 1322.00' FROM THE SOUTHEAST CORNER OF SAID SECTION 33, THENCE N02°49'52"E 314.01' TO A POINT IN THE SE 1/4 SE 1/4 OF SAID SECTION 33, T3S, R5W, U.S.B.&M. WHICH BEARS N53°11'20"W 1471.60' FROM THE SOUTHEAST CORNER OF SAID SECTION 33. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.216 ACRES MORE OR LESS.

END OF PROPOSED  
 PIPELINE RIGHT-OF-WAY  
 STA. 3+14.01  
 (At Proposed Pipeline  
 for the #14-33D-35 BTR)

**Tren J. Grant**

BEGINNING OF PROPOSED  
 PIPELINE RIGHT-OF-WAY  
 STA. 0+00  
 (At Edge of Surface Use Area)

Proposed Access for  
 the #16-33D-35 BTR

Surface Use Area  
 #16-33D-35 BTR

1983 Brass Cap,  
 5.4" High, Pile of  
 Stones, Steel Post

Section Line **T3S**  
**T4S**

S89°53'47"W - 2635.59' (Meas.)

N69°29'23"E - 5262.74' (Meas.)

SE Cor. Sec. 34 Alum. Cap.  
 1.1' High, Pile of Stones

Sec. 33

SE 1/4

SW 1/4

1/16 Section Line

Section Line  
 N007°31'6"W - 2647.80' (Meas.)

Set Marked Stone,  
 Pile of Stones

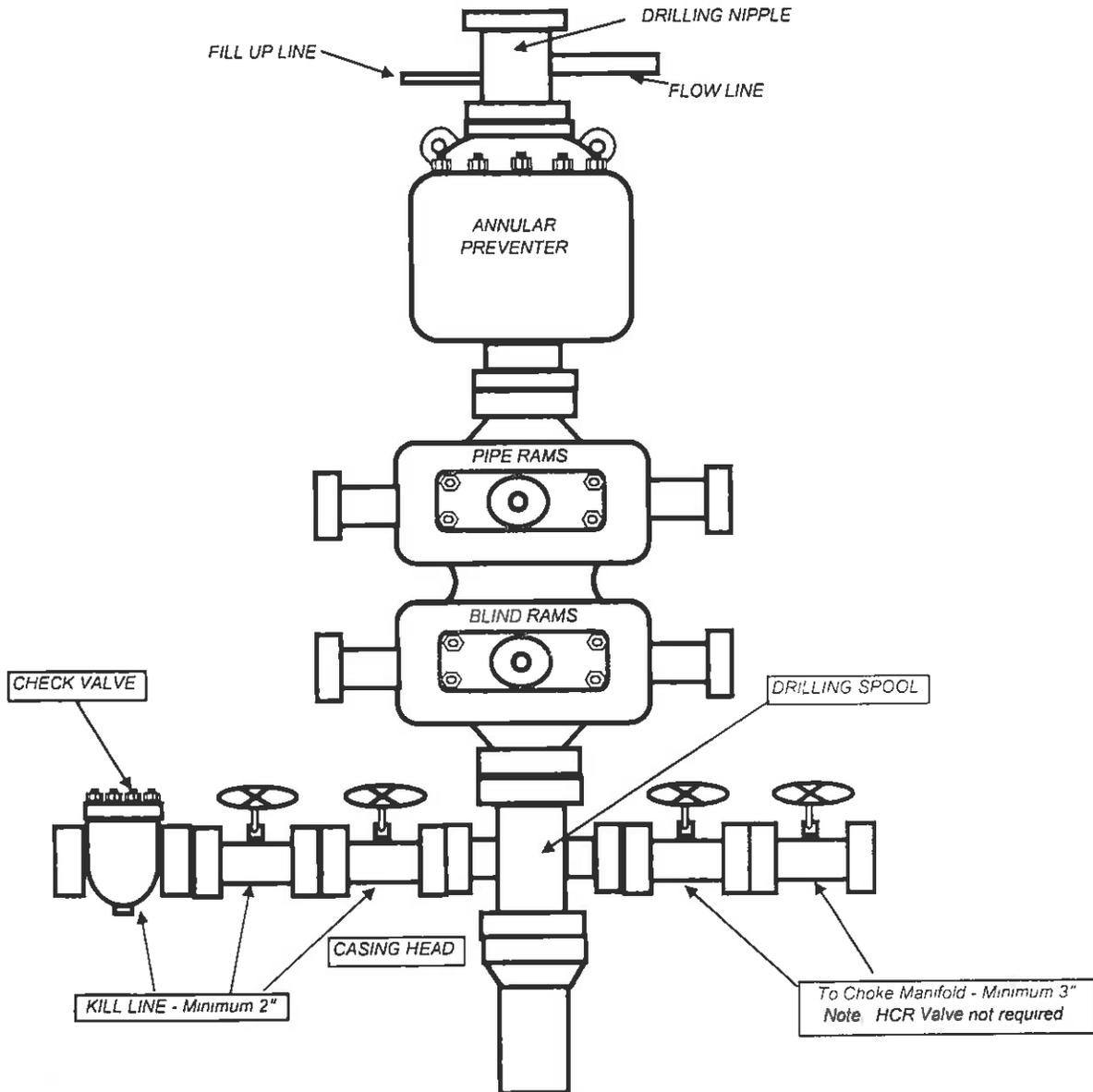
Existing Road

Proposed Access  
 for the #14-33D-35 BTR

1/16 Section Line

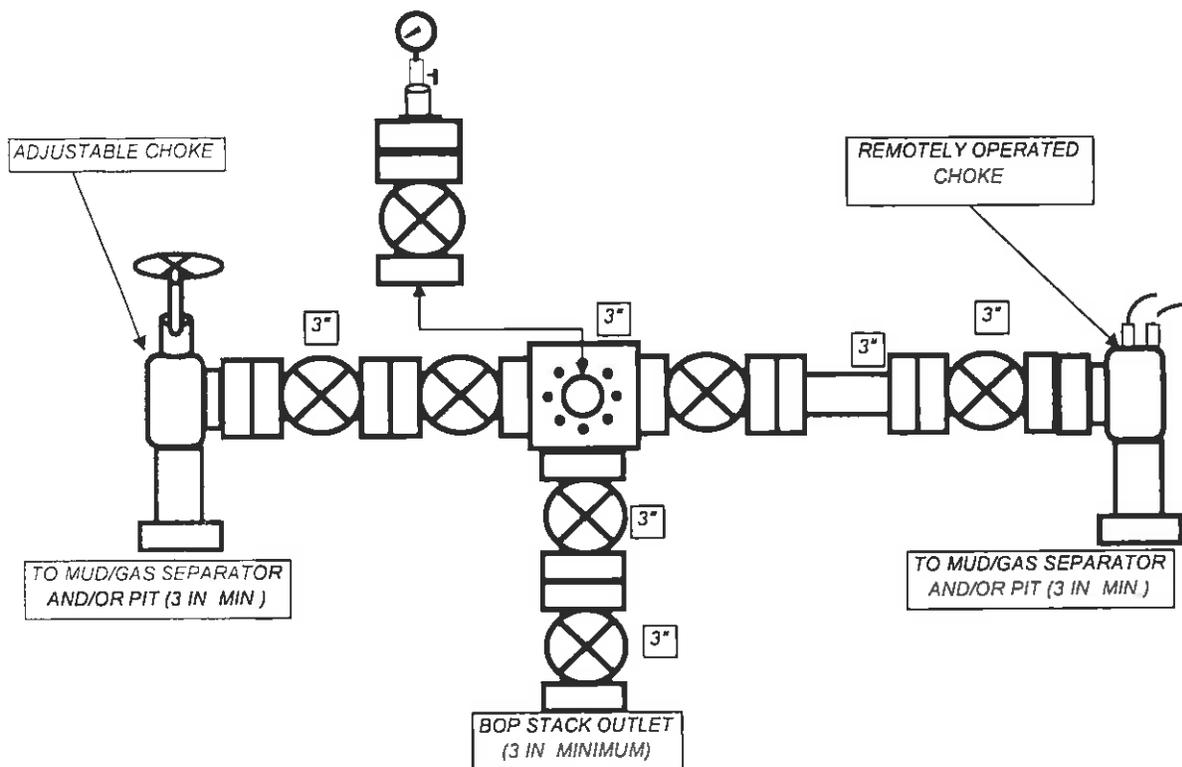
# BILL BARRETT CORPORATION

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



# BILL BARRETT CORPORATION

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





April 25, 2013

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 #16-33D-35 BTR Well**  
Surface: 390' FSL & 1392' FEL, SWSE, 33-T3S-R5W, USM  
Bottom Hole: 810' FSL & 810' FEL, SESE, 33-T3S-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. Crescent Point Energy U.S. Corp 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 Crescent Point Energy U.S. Corp, we own 100% of the working interest in these lands.

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

Sincerely,

A handwritten signature in blue ink that reads 'David Watts' with a small 'for' written below it.

David Watts  
Landman

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

**RECEIVED:** April 25, 2013



**BILL BARRETT CORPORATION**

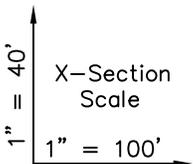
**TYPICAL CROSS SECTIONS FOR**

**#16-33D-35 BTR**

**SECTION 33, T3S, R5W, U.S.B.&M.**

**390' FSL 1392' FEL**

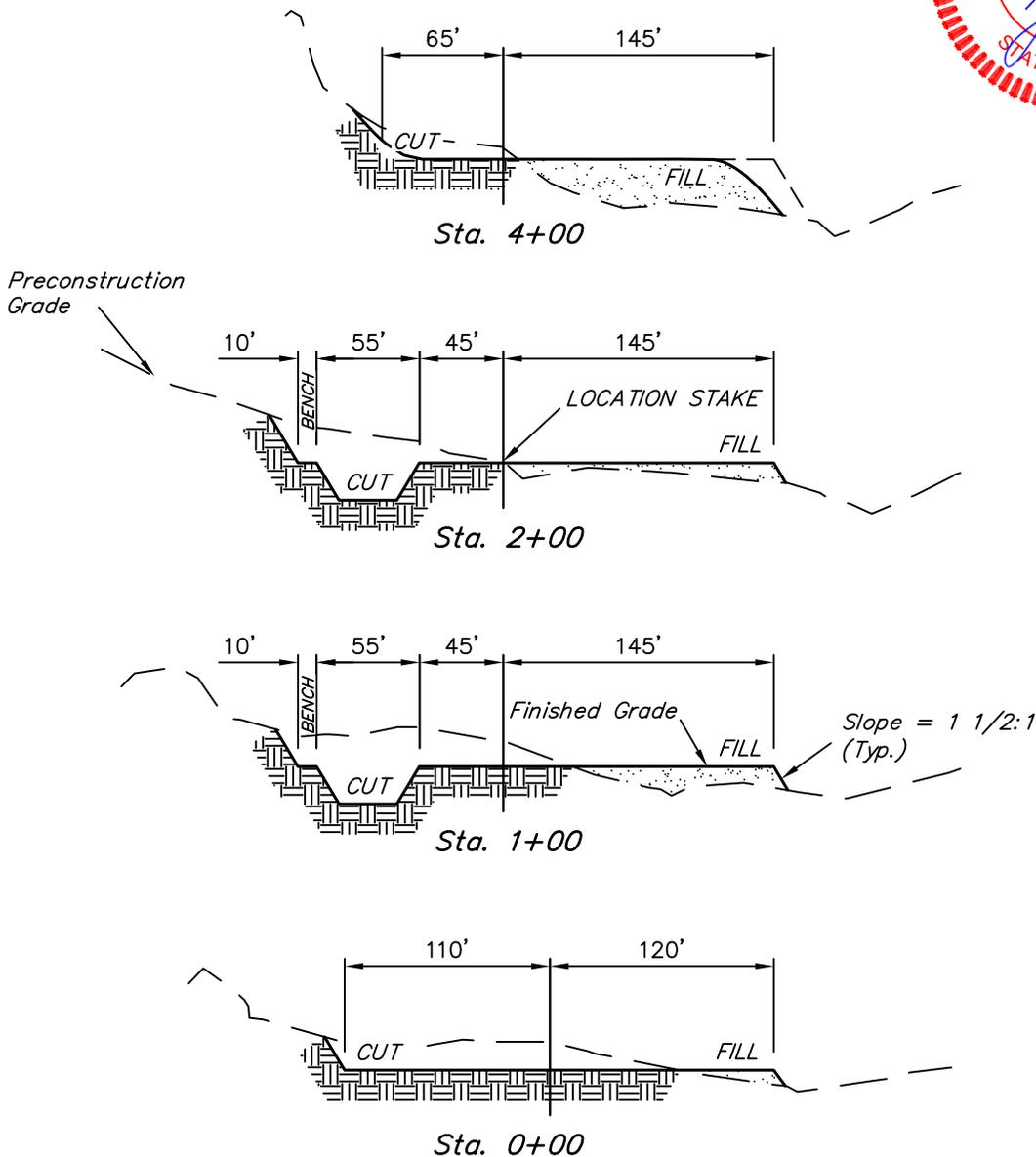
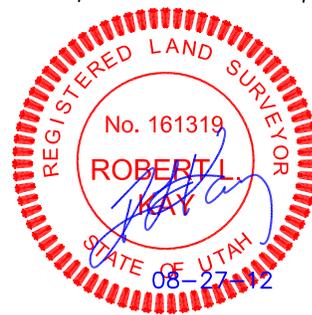
**FIGURE #2**



DATE: 08-09-12

DRAWN BY: R.L.L.

REV: 08-27-12



**NOTE:**

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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE	= ± 3.768 ACRES
ACCESS ROAD DISTURBANCE	= ± 2.339 ACRES
PIPELINE DISTURBANCE	= ± 0.216 ACRES
<b>TOTAL</b>	<b>= ± 6.323 ACRES</b>

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(6") Topsoil Stripping	= 2,150 Cu. Yds.
Remaining Location	= 12,450 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 14,600 CU. YDS.</b>
<b>FILL</b>	<b>= 11,020 CU. YDS.</b>

EXCESS MATERIAL	= 3,580 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,580 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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

# BILL BARRETT CORPORATION

TYPICAL RIG LAYOUT FOR

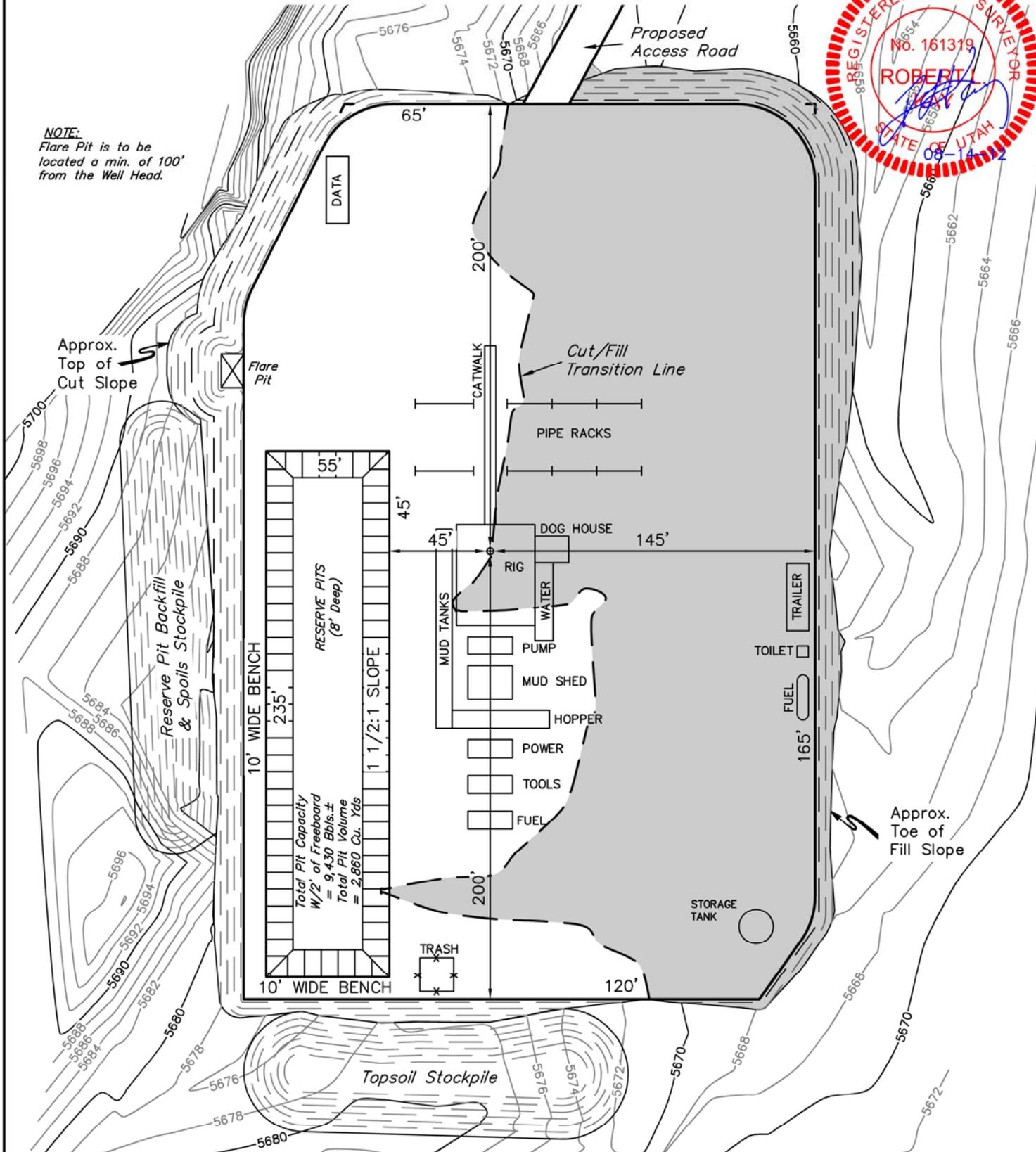
#16-33D-35 BTR  
SECTION 33, T3S, R5W, U.S.B.&M.  
390' FSL 1392' FEL

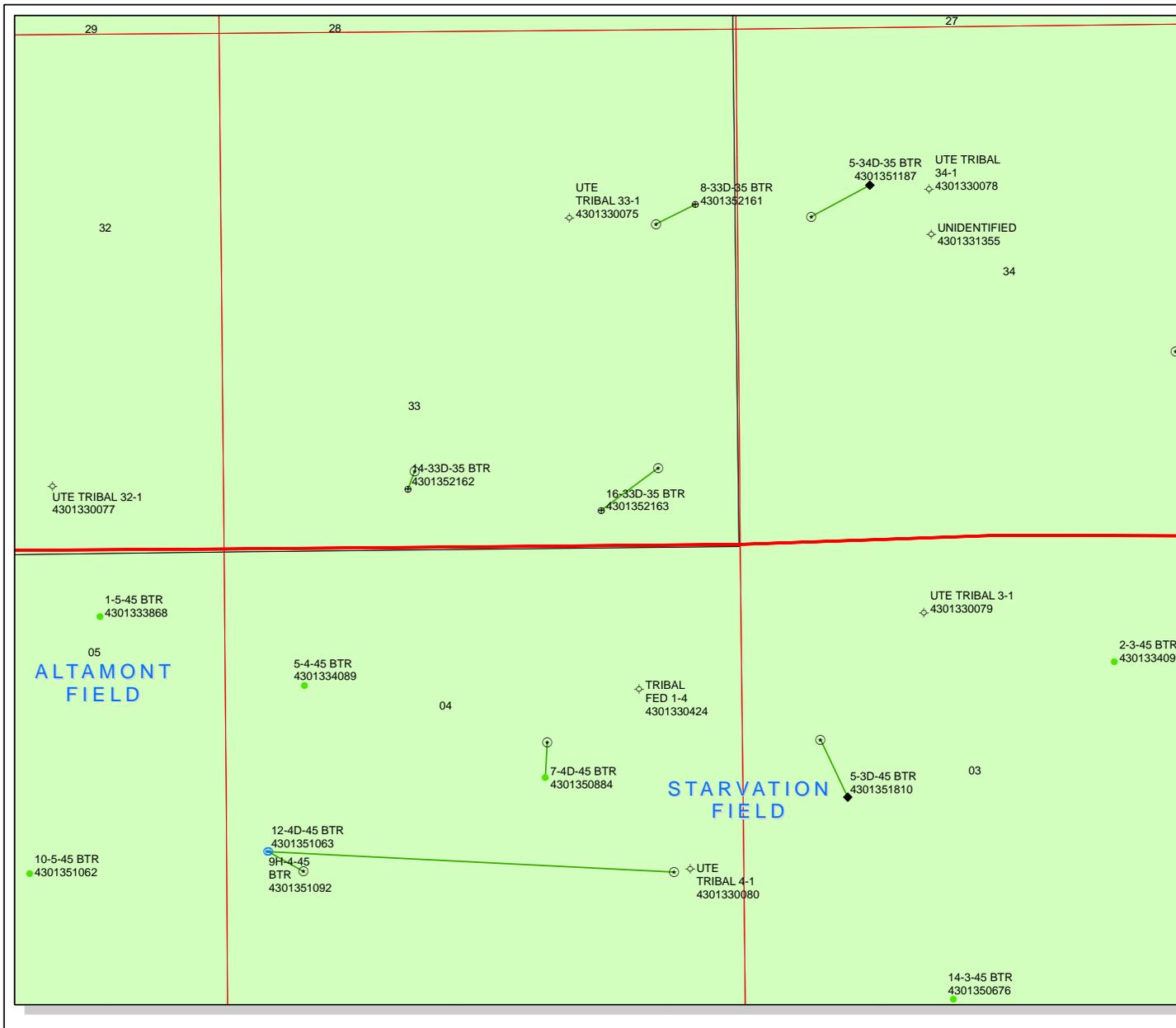
FIGURE #3

SCALE: 1" = 60'  
DATE: 08-09-12  
DRAWN BY: R.L.L.



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

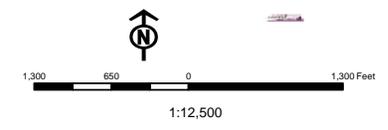




**API Number: 4301352163**  
**Well Name: 16-33D-35 BTR**  
 Township T03.0S Range R05.0W Section 33  
 Meridian: UBM  
 Operator: BILL BARRETT CORP

Map Prepared:  
 Map Produced by Diana Mason

- Units**
- ACTIVE
  - EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PI OIL
  - PP GAS
  - PP GEOTHERMAL
  - PP OIL
  - SECONDARY
  - TERMINATED
- Fields**
- Unknown
  - ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - STORAGE
  - TERMINATED



# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** 16-33D-35 BTR  
**API Number** 43013521630000      **APD No** 7896    **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** SWSE    **Sec** 33    **Tw** 3.0S    **Rng** 5.0W    390 FSL 1392 FEL  
**GPS Coord (UTM)** 546760 4446823      **Surface Owner** Tren Grant

### Participants

Trevor Anderson (surveyor), Amy Ackman (archeologist), Zack Garner (BBC), Curtis Turner (landman), Jim Burns (permit contractor), James Hereford (BLM), Mel Coonrod (reclamation)

### Regional/Local Setting & Topography

This location sits just off the south edge of a steep rock ledge. The site is just over 2 miles west of Duchesne Utah and just under 1 mile southeast of Starvation Reservoir. Drainage is to the east toward the Strawberry River.

### Surface Use Plan

**Current Surface Use**  
Wildlfe Habitat

New Road Miles	Well Pad Width 255    Length 400	Src Const Material Offsite	Surface Formation UNTA
0.65			

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Sparse grasses, pinion, juniper, mahogany, prickly pear, 4-wing salt brush, mormon tea

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

Sandy loam soil with exposed rock ledges

#### **Erosion Issues** Y

erodible soil

#### **Sedimentation Issues** N

#### **Site Stability Issues** N

#### **Drainage Diverson Required?** Y

#### **Berm Required?** Y

Permeable soil

**Erosion Sedimentation Control Required? Y**

Top soil needs to be protected from erosion. To be wrapped around corner 5 to make more room for the drainage diversion.

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

**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	100 to 200	5
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	High permeability	20
<b>Fluid Type</b>	TDS>10000	15
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
	<b>Final Score</b>	40
		1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 235 x 55 x 8ft. Bill Barrett representative Zack Garner stated that a 20 mil reserve pit liner and felt subliner is used on all BBC locations as standard equipment. This liner program appears adequate for this location.

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

**Other Observations / Comments**

Richard Powell  
Evaluator

5/30/2013  
Date / Time

---

**Application for Permit to Drill  
Statement of Basis  
Utah Division of Oil, Gas and Mining**

---

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
7896	43013521630000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Tren Grant	
<b>Well Name</b>	16-33D-35 BTR		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSE 33 3S 5W U 390 FSL 1392 FEL GPS Coord (UTM) 546752E 4446810N				

**Geologic Statement of Basis**

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

Brad Hill  
APD Evaluator

6/17/2013  
Date / Time

**Surface Statement of Basis**

This proposed location is on fee surface with Indian minerals. Surface owner Tren Grant was invited to this onsite inspection but was unable to attend. I asked Mr. Grant if he had any concerns regarding this site and he stated that he couldn't think of any concerns at the time but would call me after having time to think about it. I did not hear from Mr. Grant again prior to this onsite inspection. A drainage diversion will be needed around the west and south. A top soil pile is planned on the west side of the location. Protection of this top soil was discussed and it was decided to move the top soil so it wraps around corner 5 and is more out of the way of the needed drainage diversion. According to Zack Garner of Bill Barrett Corp. a 20 mil liner and felt sub liner will be used for the reserve pit. This location must be bermed due to permeable soils and steep terrain. This appears to be a good site for placement of this well.

Richard Powell  
Onsite Evaluator

5/30/2013  
Date / Time

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

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

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/25/2013

API NO. ASSIGNED: 43013521630000

WELL NAME: 16-33D-35 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SWSE 33 030S 050W

Permit Tech Review: 

SURFACE: 0390 FSL 1392 FEL

Engineering Review: 

BOTTOM: 0810 FSL 0810 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.17036

LONGITUDE: -110.45093

UTM SURF EASTINGS: 546752.00

NORTHINGS: 4446810.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: INDIAN - LPM8874725
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-180
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-84
- Effective Date: 12/31/2008
- Siting: 4 Prod LGRRV-WSTC Wells
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll  
4 - Federal Approval - dmason  
5 - Statement of Basis - bhll  
15 - Directional - dmason



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** 16-33D-35 BTR  
**API Well Number:** 43013521630000  
**Lease Number:** 2OG0005608  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 6/19/2013

### Issued to:

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

### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER(LWR)-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

### Exception Location:

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

### General:

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

### Conditions of Approval:

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

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

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

**Notification Requirements:**

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**



For John Rogers  
Associate Director, Oil & Gas

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**RECEIVED**

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

JUN 10 2013

**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. 20G0005608	
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name UINTAH AND OURAY	
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.	
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		8. Lease Name and Well No. 16-33D-35 BTR	
3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420		9. API Well No. 4301352143	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE 390FSL 1392FEL 40.170431 N Lat, 110.450853 W Lon At proposed prod. zone SESE 810FSL 810FEL 40.171589 N Lat, 110.448781 W Lon		10. Field and Pool, or Exploratory ALTAMONT	
14. Distance in miles and direction from nearest town or post office* 3.1 MILES NORTHWEST OF DUCHESNE, UT		11. Sec., T., R., M., or Blk. and Survey or Area Sec 33 T3S R5W Mer UBM SME: FEE	
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 810' (BOTTOM HOLE)	16. No. of Acres in Lease 52428.45	12. County or Parish DUCHESNE	
17. Spacing Unit dedicated to this well 640.00	13. State UT	18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. NONE	
19. Proposed Depth 10127 MD 10037 TVD	20. BLM/BIA Bond No. on file WYB000040	21. Elevations (Show whether DF, KB, RT, GL, etc.) 5671 GL	
22. Approximate date work will start 11/01/2013	23. Estimated duration 60 DAYS (D&C)	24. Attachments	

**RECEIVED**

OCT 21 2013

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 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.

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 06/06/2013
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date SEP 18 2013
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

**CONDITIONS OF APPROVAL ATTACHED**

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 #209860 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 06/11/2013 (13JM1049AE)

**NOTICE OF APPROVAL**

**UDOGM**

\*\* BLM REVISED \*\*

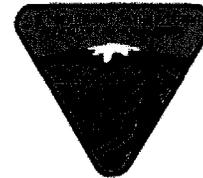


UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

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: 16-33D-35 BTR  
API No: 43-013-52163

Location: SWSE, Sec. 33, T3S, R5W  
Lease No: 2OG0005608  
Agreement: N/A

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

**OFFICE FAX NUMBER: (435) 781-3420**

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

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

**NOTIFICATION REQUIREMENTS**

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

- Any deviation of submitted APD's, which includes BBCs surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Noxious weeds will be treated, monitored, and controlled along both the access road, pipeline route, and on the well pad itself.
- Insure topsoil stability on location and use topsoil for interim reclamation as soon as possible to maintain viability of the topsoil resource. If stored for a longer period of time then topsoil will be maintained to increase viability until the resource can be used for reclamation purposes only.
- All above ground production facilities will be painted Beetle Green on this location to help blend in with the surrounding habitat, unless otherwise directed by the landowners or BLM AO.
- The operator must conduct operations to minimize adverse effects to surface and subsurface resources. This will be accomplished by staying on the approved acres of disturbance, and conforming to dust mitigation technology and doing interim reclamation practices on unused portions of the proposal.
- All dry washes will be diverted away from the actual well pad as discussed during the onsite investigation, and as agreed to by the landowners.
- Other site specific stipulations agreed upon during the onsite by the landowner as stated in the beginning of the Surface Use Plan of Operations (SUPO) of the APD will be followed and implemented. See bullets 1-2 on the first page of the SUPO.
- Site reclamation will be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Road areas not being used and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact the private landowner for seed mixes that work in the area. This is could also be included in the reclamation plan from BBC. Seeds must be planted in the fall and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

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

**SITE SPECIFIC DOWNHOLE COAs:**

- A formation integrity test shall be performed at the surface casing shoe.
- Gamma Ray Log shall be run from Total Depth to Surface.
- To effectively protect useable water, cement for the long string is required to be brought 200 feet above the surface casing shoe.
- A bowl diverter system, which is connected and discharges to a panic or choke blooie line, shall be installed while drilling of the surface hole section.

**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 by CD (compact disc). This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

## **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

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

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608	
<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>8. WELL NAME and NUMBER:</b> 16-33D-35 BTR	
<b>9. API NUMBER:</b> 43013521630000	
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>COUNTY:</b> DUCHESNE	
<b>STATE:</b> UTAH	
<b>1. TYPE OF WELL</b> Oil Well	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	
<b>PHONE NUMBER:</b> 303 312-8134 Ext	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0390 FSL 1392 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 33 Township: 03.0S Range: 05.0W Meridian: U	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached is the May 2014 Drilling Activity for this well.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 June 05, 2014

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/5/2014	

**16-33D-35 BTR 5/1/2014 06:00 - 5/2/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	11	WIRELINE LOGS	RUN OPEN HOLE LOGS, TD = 9226'
11:30	1.00	12:30	21	OPEN	R/U TO RUN CASING, PUMP CLEAN MUD THROUGH PUMPS AND FILL LINE
12:30	12.00	00:30	12	RUN CASING & CEMENT	RUN 215JTS - 9222' OF 5 1/2" 17# P-110 LT&C WITH 3 MARKERS AND 73 CENTRALIZERS
00:30	5.00	05:30	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE WHILE RECIPROCATING PIPE
05:30	0.50	06:00	12	RUN CASING & CEMENT	R/U CEMENTERS

**16-33D-35 BTR 5/2/2014 06:00 - 5/2/2014 18:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	12	RUN CASING & CEMENT	R/U CEMENT EQUIPMENT - S/M - Cement prod csg as follows: Press test lines to 5000 psi. Pump 40 bbls Tuned Spacer @10.7 ppg, 3.81 yld, 25.32 gps H2O. Shutdown, Mix and pump 271BBLs (650 sx) Lead Tuned Lite cmt @ 11 ppg, 2.34 yld, 10.12 gps H2O. Shutdown, Pump 240 BBLs Tail (930 sx) Econocem cmt @ 13.5 ppg, 1.45 yld, 6.91 gps H2O. Shutdown, Drop Plug. Displace w/212 bbls H2O w/Cla-web & Aldacide. Slow rate to bump the plug @ 1994psi, Bump Plug @ 2636, Got 82bbls of Cement to Surface, Check Floats and got 2 bbls back, R/D Halliburton
12:00	6.00	18:00	14	NIPPLE UP B.O.P	NIPPLE DOWN BOP, CLEAN MUD TANKS, RIG DOWN, WORK ON ROAD LEAVING OLD LOCATION CULVERT COLLAPSED AND HAD TO MOUND OVER TO GET RIG OVER. RIG RELEASE AT 1800 HRS.

**16-33D-35 BTR 5/5/2014 06:00 - 5/6/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	N/D 11" NITE CAP. N/U 7" 5K TBG HEAD & TEST VOID AND SEALS. N/U 7" NITE CAP. SWI.

**16-33D-35 BTR 5/6/2014 06:00 - 5/7/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU CUTTERS. HSM. RIH W/ GR/JB AND TAG FILL AT 9145'. DRLG SHOWS FC AT 9134' (NO FILL). RUN CBL LOG- CMT SHOWS TD-4700' GOOD W/ FAIR SPOTS, 4700'-4200' FAIR, 4200'-2600' POOR AND RATTY. TOC EST 2600'. RDMO CUTTERS. (MADE 2 RUNS- 1ST RUN WITH NO PRESSURE, 2ND RUN WITH 1000 PSI PRESSURE. NO DIFFERENCE IN CMT QUALITY) TOOL FAILED 3525' ON 2ND LOG.

**16-33D-35 BTR 5/20/2014 06:00 - 5/21/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 8400 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.

**16-33D-35 BTR 5/23/2014 06:00 - 5/24/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	ARRIVE ON LOCATION 7AM
07:00	0.10	07:06	SMTG	Safety Meeting	DISCUSS OVER HEAD LOADS WHILE RIGGING UP.
07:06	1.00	08:06	SRIG	Rig Up/Down	MIRU CASED HOLE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:06	1.30	09:24	WLWK	Wireline	PERF STG 1-- PERF CR 4, CR 4A, AND CR 5, FORM 8797'-9121' WITH 45 HOLES IN 15' NET. SHUT IN AND SECURE WELL.
09:24	3.00	12:24	SRIG	Rig Up/Down	MIRU HES
12:24	17.60	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT

**16-33D-35 BTR 5/24/2014 06:00 - 5/25/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	CTRL	Crew Travel	CREW ARRIVED ON LOC @ 5:00 AM
06:00	0.50	06:30	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
06:30	1.50	08:00	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9500 PSI. OPEN WELL W/ 95 PSI AT 06:47 BREAK DOWN 3607 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2990 PSI. FLUSH W/ 8589 GAL. 29.5 BPM AT 3670 PSI. BALL OUT. ( DID NOT SEE MUCH BALL ACTION) SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 67 BPM AT 4334 PSI. ISDP 2956 . FG .77. PERFS OPEN 42/45  ISIP 3266 , FG .80, MR 70.3 BPM, AR 70 BPM, MP 3990 (ON BALL OUT) PSI, AP 3670 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 1556 BBL, 20# HYBOR G (16) 1494 BBL, BTR 3155 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
08:00	1.30	09:18	WLWK	Wireline	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8483'-8505'. RUN DOWN AND SET 5-1/2" CBP AT 8778' WITH 2700 PSI. PULL UP AND PERF CR 3 AND CR 4 FORM 8505'-8758' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1700 PSI. TURN WELL OVER TO HES.
09:18	1.20	10:30	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2020 PSI AT 9:20 BREAK DOWN 2960 PSI AT 10 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2800 PSI. FLUSH W/ 8304 GAL. 30 BPM AT 3240 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70 BPM AT 3920 PSI. ISDP 2687. FG .75. PERFS OPEN 45/45  ISIP 3064 , FG .79, MR 70.1 BPM, AR 69.7 BPM, MP 8180 (ON BALL OUT) PSI, AP 3200 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg SLK WTR 1422 BBL, 20# HYBOR G (16) 1503 BBL, BTR 3017 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
10:30	1.10	11:36	WLWK	Wireline	PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 8494' WITH 2700 PSI. PULL UP AND PERF CR AND CR 3 FORM 8257'-8481' WITH 42 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2500 PSI. TURN WELL OVER TO HES.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
11:36	1.20	12:48	FRAC	Frac. Job	FRAC STG 3 PRESSURE TEST LINES TO 9400 PSI. OPEN WELL W/ 2535 PSI AT 11:46AM BREAK DOWN 2630 PSI AT 5 BPM. PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10 BPM AT 2790 PSI. FLUSH W/ 8062 GAL. 29.5 BPM AT 3350 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71 BPM AT 4690 PSI. ISDP 2861 . FG .78. PERFS OPEN 42/42 " 1,700 gals into 3lb blendered died for 4 mins got it back up and running pumped 6,300 gal flush went back to sand on 3lb stage pumped job to design. Crew unsure of what happend why blender died."  ISIP 2975 , FG .79, MR 70.5 BPM, AR 69 BPM, MP 7730 (ON BALL OUT) PSI, AP 3350 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg SLK WTR 1421 BBL, 20# HYBOR G (16) 1490 BBL, BTR 3004 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.	
12:48	1.30	14:06	WLWK	Wireline	PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 8245' WITH PSI. PULL UP AND PERF STG 4 WASATCH AND CR 2 FORM 8012'-8230' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2400 PSI. TURN WELL OVER TO HES.	
14:06	1.30	15:24	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2360 PSI AT 14:22 BREAK DOWN 2530 PSI AT 10 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2560 PSI. FLUSH W/ 7823 GAL. 30 BPM AT PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70 BPM AT 3809 PSI. ISDP 2487. FG .74. PERFS OPEN 45/45  ISIP 2581 , FG .76, MR 71.4 BPM, AR 70.4 BPM, MP 8501 (ON BALL OUT) PSI, AP 2880 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg SLK WTR 1275 BBL, 20# HYBOR G (16) 1359 BBL, BTR 2727 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.	
15:24	1.20	16:36	WLWK	Wireline	PERF STG #5- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 7685' WITH PSI. PULL UP AND PERF STG 5 CASTLE PEAK, UTELAND BUTTE, CR 1 FORM 7687'-7956' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2000 PSI. SDFN LOCK AND SECURE WELL	
16:36	13.40	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT.	

**16-33D-35 BTR 5/25/2014 06:00 - 5/26/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	SMTG	Safety Meeting	AOL 06:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.	
07:00	1.00	08:00	FRAC	Frac. Job	FRAC STG 5 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1690 PSI AT 6:55 AM BREAK DOWN 2315 PSI AT 10 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2090 PSI. FLUSH W/ 7506 GAL. 30 BPM AT 2540 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.2 BPM AT 3670 PSI. ISDP 2272. FG .73. PERFS OPEN 42/45 ISIP 2544, FG .76, MR 70.4 BPM, AR 70.1 BPM, MP 3656 PSI AP 3371 PSI 100 MESH 15,900 lbs .75 ppg 20/40 WHITE 151,600 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 866 BBL, 20# HYBOR G (16) 2164 BBL, BTR 3123 BBLs TURN OVER TO CASED HOLE.	



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
08:00	1.34	09:20	PFRT	Perforating	PERF STG #6- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 2200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 7672' WITH 2200 PSI. PULL UP AND PERF CASTLE PEAK FORM 7411'-7665' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1700 PSI. TURN WELL OVER TO HES.	
09:20	1.40	10:44	FRAC	Frac. Job	FRAC STG 6 PRESSURE TEST LINES TO 9010 PSI. OPEN WELL W/ 1640 PSI AT BREAK DOWN 1830 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 1737 PSI. FLUSH W/ 7236 GAL. 30.0 BPM AT 2210 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 3435 PSI. ISDP 1873. FG .69. PERFS OPEN 38/45 ISIP 2190 , FG .69, MR 70.6 BPM, AR 70.3 BPM, MP 3294 PSI, AP 3033 PSI 100 MESH 159.20 lbs .75 ppg 20/40 WHITE lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1338 BBL, 20# HYBOR G (16) 2065 BBL, BTR 3483 BBLs TURN OVER TO CASEDHOLE.	
10:44	1.00	11:44	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1700 PSI. RIH AND CORRELATE TO SHORT JT 7164'-7186. SET KILL PLUG AT 7305' WITH 1650 PSI. BLEED OFF AS POOH.	
11:44	3.00	14:44	SRIG	Rig Up/Down	RDMO HES AND CASEDHOLE.	
14:44	15.26	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. STACK WTR. MOVE OFF FRAC LINE.	

**16-33D-35 BTR 5/26/2014 06:00 - 5/27/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	1.50	08:30	BOPI	Install BOP's	SLIDE ROTO OUT. BLEED OFF PRESSURE. ND FRAC VALVES. NU BOP AND HYDRIL.	
08:30	1.50	10:00	SRIG	Rig Up/Down	RUSU. RU FLOOR. X-O FOR TBG.	
10:00	2.00	12:00	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 293-JTS 2-7/8" L-80 TBG.	
12:00	1.00	13:00	RUTB	Run Tubing	MU 4-3/4" BIT, POBS, 1-JT, 2.31 XN AND RIH AS MEAS / PU 2-7/8" L-80 TBG. SLIPS BROKE	
13:00	3.00	16:00	DTIM	Downtime	REPAIR SLIPS, NO BODY ON CALL AT KEY FOR ASSISTANCE.	
16:00	2.00	18:00	RUTB	Run Tubing	CONT RIH W/ TBG TO TAG KILL PLUG AT 7305' WITH 231-JTS IN.	
18:00	1.00	19:00	SRIG	Rig Up/Down	RU PWR SWIVEL. FILL TBG AND PRES TEST TO 2000 PSI. GOOD. SDFN.	
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.	

**16-33D-35 BTR 5/27/2014 06:00 - 5/28/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	11.50	18:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS  CBP #1 AT 7305'. 0' FILL. D/O IN 20 MIN. FCP 1700 PSI ON 26/64" CBP #2 TAG FILL AT 7660'. 30 MIN TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 7675'. D/O CBP IN 1.5 HRS. FCP 850 PSI. CBP #3 TAG FILL AT 7957'. 1.5 HR TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 7972'. D/O CBP IN 1 HR. FCP AT 850 PSI. CBP #4 TAG FILL AT 8230'. 1.0 HR TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 8245'. D/O CBP IN 1.5 HR. FCP AT 850 PSI. TAG FILL ON #5 AT 8481'. DRILL FOR 3.5 HRS. COULD NOT D/O PLUG #4 REMAINS ON FILL.	
18:30	0.50	19:00	GOP	General Operations	LD 1-JT AND SECURE TBG WITH CSG FLOW TO FBC AND TREATER.	
19:00	11.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION.	

**16-33D-35 BTR 5/28/2014 06:00 - 5/29/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	4.00	11:00	DOPG	Drill Out Plugs	EST CIRC. ABLE TO C/O PLUG REMAINS AND FILL TO CBP #5 AT 8494'. D/O IN 2 HRS. FCP 550 ON 24/64" CHOKE. RIH. UNABLE TO D/O PLUG REMAINS ON FILL OF #6. STARTED GETTING STICKY. CIRC CLEAN.
11:00	1.00	12:00	SRIG	Rig Up/Down	RD PWR SWIVEL
12:00	2.00	14:00	PULT	Pull Tubing	POOH W/ 222-JTS 2-7/8" TBG. HAVE 50-JTS IN HOLE. SDFN WITH WELL FLOWING TO TREATER
14:00	16.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.

**16-33D-35 BTR 5/29/2014 06:00 - 5/30/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.00	08:00	GOP	General Operations	WELL FLOWING TO TREATER. 650 PSI ON 24/64" CHOKE. SHUT IN AND LUBE IN HANGER. RD FLOOR. ND HYDRIL.
08:00	1.50	09:30	SRIG	Rig Up/Down	HSM. RU MT STATES SNUB UNIT TO BOP. SICP 1050 PSI.
09:30	1.00	10:30	PULT	Pull Tubing	EQUALIZE AND LUBE OUT HANGER. OPEN WELL TO FLOW TO TREATER. POOH W/ 50-JTS TBG AND POBS. BIT MISING 2 CONES.
10:30	2.00	12:30	RUTB	Run Tubing	MU 4-3/4" MILL, FLOAT SUB, POBS, AND SNUB IN HOLE WITH 100-JTS. PUMP 20 BBLs DOWN TBG. LUBE IN AND LAND HANGER.
12:30	1.50	14:00	SRIG	Rig Up/Down	RD MT STATES SNUB UNIT.
14:00	1.00	15:00	GOP	General Operations	NU HYDRIL. RU FLOOR. LUBE OUT HANGER.
15:00	1.50	16:30	RUTB	Run Tubing	CONT RIH W/ TBG TO TAG FILL ON #6 AT 8600'. RU PWR SWIVEL.
16:30	2.00	18:30	CLN	Clean Out Hole	EST CIRC AND D/O #5 PLUG REMAINS. C/O 178' FILL TO CBP #6 AT 8778'. GETTING LOW ON WTR. CIRC CLEAN.
18:30	0.50	19:00	PULT	Pull Tubing	HANG PWR SWIVEL. PULL 4-JTS TBG. TURN OVER TO FBC AND PRODUCTION.
19:00	11.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 16-33D-35 BTR	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013521630000	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0390 FSL 1392 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 33 Township: 03.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/28/2014  <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 checked="" 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 HAD FIRST PRODUCTION ON 5/28/14, FIRST GAS SALES ON 5/29/14 AND FIRST OIL SALES ON 5/30/14.			
<b>Accepted by the Utah Division of Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> June 02, 2014			
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 6/2/2014	

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
20G0005608

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			6. If Indian, Allottee or Tribe Name		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator BILL BARRETT CORPORATION E-Mail: chrtiler@billbarrettcorp.com			8. Lease Name and Well No. 16-33D-35 BTR		
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202		3a. Phone No. (include area code) Ph: 303-312-8597	9. API Well No. 43-013-52163		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* Sec 33 T3S R5W Mer UBM At surface SWSE 390FSL 1392FEL 40.170431 N Lat, 110.450853 W Lon At top prod interval reported below SWSE 795FSL 806FEL At total depth SWSE 741FSL 819FEL			10. Field and Pool, or Exploratory ALTAMONT		
14. Date Spudded 04/09/2014			15. Date T.D. Reached 04/29/2014	16. Date Completed <input type="checkbox"/> D & A <input type="checkbox"/> Ready to Prod. 05/28/2014	
17. Elevations (DF, KB, RT, GL)* 5671 GL					
18. Total Depth: MD 9255 TVD 9186		19. Plug Back T.D.: MD 9136 TVD 9067		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUD,CBL,GAMMA RAY			22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)		

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	16.000 COND	65.0		80	80				
12.250	9.625 J-55	36.0		3124	3114	965	352		
8.750	5.500 P-110	17.0		9255	9221	1580	511	2590	

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	7331							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	7411	7956	7411 TO 9121	0.380	267	OPEN
B) WASATCH	8012	9121				
C)						
D)						

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

Depth Interval	Amount and Type of Material
7411 TO 7956	GREEN RIVER SEE STAGES 5-6
8012 TO 9121	WASATCH SEE STAGES 1-4

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/28/2014	05/31/2014	24	→	531.0	1102.0	843.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	SI 600	1700.0	→	531	1102	843	2075	POW	

28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #250695 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	3278
				MAHOGANY	4163
				TGR3	5487
				DOUGLAS CREEK	6382
				BLACK SHALE FACIES	7230
				CASTLE PEAK	7409
				UTELAND BUTTE	7728
				WASATCH	7969

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL, Conductor was cemented with grout. Attaches is the treatment data and logs. First gas sales 5/29/2014, oil sales were on 5/30/2014.

33. Circle enclosed attachments:

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

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

**Electronic Submission #250695 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) CHRISTINA HIRTLER Title PERMIT ANALYST

Signature (Electronic Submission) Date 06/24/2014

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

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

**16-33D-35 BTR Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><u>Stage</u></b>	<b><u>bbls Slurry</u></b>	<b><u>lbs Common White 100 Mesh Sand</u></b>	<b><u>lbs 20/40 Premium White</u></b>	<b><u>gal 15% HCl Acid</u></b>
1	3155		150,000	4,400
2	3017		150,000	3,900
3	3004		150,000	3,900
4	2727		150,000	3,900
5	3100	15,900	151,600	3,900
6	3484	15,920	148,960	3,400

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

**16-33D-35 BTR 4/18/2014 19:30 - 4/19/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
19:30	4.00	23:30	14	NIPPLE UP B.O.P	NIPPLE UP CONDUCTOR, INSTALL FLOW LINE, ATTACH BOOM
23:30	2.50	02:00	20	DIRECTIONAL WORK	PICK UP DIR. TOOLS
02:00	4.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/93' - T/185'

**16-33D-35 BTR 4/19/2014 06:00 - 4/20/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	2	DRILL ACTUAL	DRILL ACTUAL F/185' - T/307'
08:30	0.50	09:00	7	LUBRICATE RIG	RIG SERVICE
09:00	2.00	11:00	8	REPAIR RIG	WORK ON 4" OTECO VALVE
11:00	19.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/307' - T/1644' - 1337' @ 70.4'/HR. WOB = 15, RPM = 50

**16-33D-35 BTR 4/20/2014 06:00 - 4/21/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	DRILL ACTUAL F/1644' - T/2149' - 505' @ 53.2'/HR. WOB = 12-15K, RPM = 50-60
15:30	0.50	16:00	7	LUBRICATE RIG	RIG SERVICE
16:00	14.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/2149' - T/2782' - 633' @ 45.2'/HR. WOB = 12-15K, RPM = 50-65

**16-33D-35 BTR 4/21/2014 06:00 - 4/22/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	DRILL ACTUAL F/2782' - T/3124' TD - 342' @ 48.9'/HR. WOB = 15K, RPM = 55-65
13:00	1.50	14:30	5	COND MUD & CIRC	PUMP HIGH VIS SWEEP, CIRCULATE HOLE CLEAN
14:30	0.50	15:00	5	COND MUD & CIRC	FLOW CHECK-WELL FLOWING 1GAL/MIN.
15:00	2.00	17:00	5	COND MUD & CIRC	WIEHT UP ACTIVE TO 11.6PPG ALL AROUND, MONITOR WELL, NO FLOW, PUMP SLUG
17:00	3.50	20:30	6	TRIPS	TOOH/LDDP FOR CASING
20:30	1.00	21:30	20	DIRECTIONAL WORK	LAY DOWN DIR. TOOLS
21:30	8.50	06:00	12	RUN CASING & CEMENT	RUN 75JTS. - 3113' OF 9 5/8" J55 36# ST&C WITH 17 CENTRALIZERS

**16-33D-35 BTR 4/22/2014 06:00 - 4/23/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	12	RUN CASING & CEMENT	RUN 75JTS. - 3113' OF 9 5/8" J55 36# ST&C WITH 17 CENTRALIZERS
06:30	3.00	09:30	5	COND MUD & CIRC	CIRCULATE, DROP MW, RECIPROCATEC CASING
09:30	3.00	12:30	12	RUN CASING & CEMENT	R/U, SAFETY MEETING, FILL LINES, TEST LINES TO 3500PSI, PUMP 20BBLs WATER, PUMP 40 BBL OF TUNED SPACER AT 11.5LB/GAL, PUMP 20 BBLs OF FRESH WATER, PUMP 293 BBLs 725 SKS LEAD @ 12.5LBS/GAL 2.27 YLD 12.98GPS, HAD PROBLEMS GETTING WATER AND SHUTDOWN, RESOLVED WATER ISSUE, PUMP 59BBLs 240 SKS TAIL @ 14.8#, 1.37 YLD, 6.62GPS, SHUTDOWN, DROP TOP PLUG, PUMP 238 BBLs OF FRESH WATER DISPLACEMENT, SLOW RATE TO 4BPM AT 100 BBLs AWAY, SLOW RATE TO 2BPM AT 190BBLs AWAY, BUMPED PLUG AT 238 BBLs AWAY, FINAL CIRC PRESSURE WAS 1103PSI, 160 BBLs CEMENT TO SURFACE, CEMENT IS HOLDING AT SURFACE, HELD FOR 2MIN. FLOATS HELD, 2 1/2BBLs BACK TO THE PUMP TRUCK, WAIT ONE HOUR TO TOP OUT, CEMENT HOLDING AT SURFACE, PUMPED 25 SKS OF TOP OUT CEMENT AT 15.6LBS/GAL, 1.21 YLD, 5.4 GAL/SK, GOOD CEMENT TO SURFACE, WATCH FOR ONE HOUR, CEMENT DID NOT FALL BACK, WASH STACK OUT, R/D
12:30	1.00	13:30	13	WAIT ON CEMENT	WAIT TO DO TOP JOB
13:30	1.00	14:30	12	RUN CASING & CEMENT	RUN 1" AND CEMENT WITH TOP JOB
14:30	3.00	17:30	13	WAIT ON CEMENT	WAIT ON CEMENT, WATCH FOR DROP, WAIT ON CEMENT TO CUT CASING

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	7.50	01:00	21	OPEN	CUT OFF CASING WELD ON WELLHEAD
01:00	4.00	05:00	14	NIPPLE UP B.O.P	NIPPLE UP
05:00	1.00	06:00	15	TEST B.O.P	TEST B.O.P.

**16-33D-35 BTR 4/23/2014 06:00 - 4/24/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	15	TEST B.O.P	TEST LOWER KELLY VALVE, SAFETY VALVE, PIPE RAMS INSIDE VALVES, HCR, OUTSIDE KILL LINE VALVES, CHOKE LINE, CHECK VALVE, UPRIGHT GAGE VALVE, BLIND RAMS, AND INSIDE MANIFOLD VALVES ALL TO 5000PSI FOR 10 MIN. - TEST ANNULAR TO 1500PSI - SUPER CHOKE 500PSI 5MIN. - TEST CSG TO 1500PSI FOR 30MIN. TESTED USING B&C QUICK TEST.
12:00	1.00	13:00	21	OPEN	INSTALL WEAR BUSHING
13:00	1.00	14:00	20	DIRECTIONAL WORK	M/U BIT & MOTOR & ATTEMPT TO SCRIBE (BIT WOULDN'T GO THROUGH WELLHEAD)
14:00	0.50	14:30	21	OPEN	PULL WEAR BUSHING TO VISUALLY SEE BIT WOULD GO THROUGH IT
14:30	1.00	15:30	21	OPEN	PICK BACK UP M/M AND ATTEMPTED TO RUN IN HOLE WOULD NOT GO - PULLED 2" NIPPLE & BALL VALVE OUT TO SEE WHERE IT WAS STOPPING. THE GAUGE PADS OF THE BIT WERE HANGING UP ON THE INSIDE WELD OF THE WELLHEAD
15:30	2.50	18:00	14	NIPPLE DOWN B.O.P	NIPPLE DOWN B.O.P. TO HAVE WELDER FIX WELLHEAD.
18:00	3.00	21:00	21	OPEN	WELDER GROUND DOWN WELD & RE-WELDED PROPERLY
21:00	0.50	21:30	15	TEST B.O.P	RE-TEST WELLHEAD & FLANGE FROM B.O.P. TO WELLHEAD
21:30	0.50	22:00	21	OPEN	INSTALL WEAR BUSHING
22:00	2.50	00:30	6	TRIPS	T.I.H. TAG UP ON CEMENT @ 3078'
00:30	1.00	01:30	21	OPEN	DRILL OUT FLOAT EQUIPMENT
01:30	1.50	03:00	21	OPEN	DRILL 15' NEW HOLE & PERFORM E.M.W. TEST TO 10.5 TVD= 3098 PMW 8.7 = 290PSI @ SURFACE
03:00	3.00	06:00	2	DRILL ACTUAL	DRILL FROM 3124 T/ 3359

**16-33D-35 BTR 4/24/2014 06:00 - 4/25/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 3359 T/ 4245 - WT ON BIT 12-15K - RPM 50-60 - 550GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	DRILL F/ 4245 T/ 5300- WT ON BIT 12-15K - RPM 50-60 - 550GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI

**16-33D-35 BTR 4/25/2014 06:00 - 4/26/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 5300 T/ 5932 - WT ON BIT 12-15K - RPM 50-60 - 550GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	DRILL F/ 5932 T/ 6675 - WT ON BIT 15-18K - RPM 50-60 - 550GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI

**16-33D-35 BTR 4/26/2014 06:00 - 4/27/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	DRILL F/ 6675 T/ 7073 - WT ON BIT 15-18K - RPM 50-60 - 550GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI
16:30	1.00	17:30	5	COND MUD & CIRC	STARTED LOOSING MUD AT 7040 - CIRCULATE @ 120STROKES TO FILL ACTIVE TANKS & REBUILD PREMIX WHILE MIXING LCM TO HEAL LOSSES
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	12.00	06:00	2	DRILL ACTUAL	DRILL F/ 7073 T/ 7670- WT ON BIT 15-18K - RPM 50-60 - 470GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI

**16-33D-35 BTR 4/27/2014 06:00 - 4/28/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-52163	UT	Duchesne	Black Tail Ridge	PRODUCING	9,255.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	DRILL F/ 7670 T/ 8070 - WT ON BIT 15-18K - RPM 50-60 - 470GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI
17:00	0.50	17:30	7	LUBRICATE RIG	RIG SERVICE
17:30	0.50	18:00	5	COND MUD & CIRC	CIRCULATE OUT GAS
18:00	1.00	19:00	2	DRILL ACTUAL	DRILL F/ 8070 T/ 8099 - WT ON BIT 15-18K - RPM 50-60 - 470GPM - 250-300PSI DIFF - TORQUE 9-10K - SPP 1650PSI
19:00	8.00	03:00	5	COND MUD & CIRC	LOST 95% RETURNS - BYPASS SHAKERS & BUILD LCM CONTENT TO 20% BEFORE WELL BEGAN TO STABILIZE - MAINTAINED M.W. OF 9.9PPG DUE TO 4000-5000UNITS GAS WHILE BUILDING VOLUME AND GETTING LCM PERCENTAGE UP - HAD 9.9MW WITH 5-10% LCM WHEN WE LOST RETURNS
03:00	3.00	06:00	2	DRILL ACTUAL	DRILL F/ 8099 T/ 8250 - WT ON BIT 15-18K - RPM 50-60 - 360GPM - 200-250PSI DIFF - TORQUE 9-10K - SPP 1500PSI

**16-33D-35 BTR 4/28/2014 06:00 - 4/29/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-52163	UT	Duchesne	Black Tail Ridge	PRODUCING	9,255.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	DRILL F/ 8250 T/ 8257 - WT ON BIT 15-18K - RPM 50-60 - 360GPM - 200-250PSI DIFF - TORQUE 9-10K - SPP 1500PSI
07:00	2.50	09:30	5	COND MUD & CIRC	CIRCULATE OUT 7800UNITS GAS & RAISE MUD WIEGHT TO 10.2 BEFORE RESUMING DRILLING OPERATIONS
09:30	8.00	17:30	2	DRILL ACTUAL	DRILL F/ 8257 T/ 8510 - WT ON BIT 15-18K - RPM 50-60 - 400GPM - 200-250PSI DIFF - TORQUE 9-10K - SPP 1500PSI
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	DRILL F/ 8510 T/ 8900 - WT ON BIT 15-18K - RPM 50-60 - 300-370GPM - 200-250PSI DIFF - TORQUE 9-10K - SPP 1500PSI

**16-33D-35 BTR 4/29/2014 06:00 - 4/30/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-52163	UT	Duchesne	Black Tail Ridge	PRODUCING	9,255.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.50	19:30	2	DRILL ACTUAL	DRILL F/ 8900 T/ 9255 - WT ON BIT 18-22K - RPM 50-60 - 300-370GPM - 200-250PSI DIFF - TORQUE 9-10K - SPP 1700PSI
19:30	0.50	20:00	7	LUBRICATE RIG	RIG SERVICE
20:00	2.00	22:00	5	COND MUD & CIRC	FLOW CHECK - PUMP 40BBLS HIGH VIS SWEEP & CIRCULATE 2 B/U
22:00	8.00	06:00	6	TRIPS	WIPER TRIP TO SURFACE CSG 3124' - FILL HOLE CONTINUOUSLY WITH TRIP TANK 40BBLS - TRIP SPEED SET 75' MIN TO REDUCE THE CHANCE OF SWABBING UP TO 6000' DUE TO HIGH LCM PERCENTAGE AND REAMERS IN HOLE - CIRCULATE SLUG OUT OF PIPE AND HOLE WHILE @ THE SHOE - T.I.H. FILL & MOVE MUD EVERY 1000' ON THE WAY IN @ 8000'

**16-33D-35 BTR 4/30/2014 06:00 - 5/1/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-52163	UT	Duchesne	Black Tail Ridge	PRODUCING	9,255.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	CONT. T.I.H. F/ 8000' T/ 9255' - WASH LAST 100' TO BOTTOM
07:30	9.00	16:30	5	COND MUD & CIRC	VERY LITTLE RETURNS ON BOTTOM - BUILD VOLUME - PUMP THROUGH STRING TO KEEP BIT CLEAR - LOST 500BBLS BEFORE GETTING FULL RETURNS
16:30	4.50	21:00	5	COND MUD & CIRC	CIRCULATE B/U WITH FULL RETURNS - FLOW CHECK 15MIN. - CIRCULATE AND CONDITION MUD FOR LOGS - HAD HEAVY SPOTS IN MUD FROM BUILDING VOLUME - LEVEL OUT MUD @ 10.5MW 50VIS IN & OUT
21:00	7.00	04:00	6	TRIPS	T.O.O.H. F/ 9255 T/ 180 - FILL HOLE CONTINUOUSLY WITH TRIP TANK 65BBLS -



Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
04:00	2.00	06:00	20	DIRECTIONAL WORK	L/D DIRECTIONAL TOOLS		
16-33D-35 BTR 5/1/2014 06:00 - 5/2/2014 06:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	5.50	11:30	11	WIRELINE LOGS	RUN OPEN HOLE LOGS, TD = 9226'		
11:30	1.00	12:30	21	OPEN	R/U TO RUN CASING, PUMP CLEAN MUD THROUGH PUMPS AND FILL LINE		
12:30	12.00	00:30	12	RUN CASING & CEMENT	RUN 215JTS - 9222' OF 5 1/2" 17# P-110 LT&C WITH 3 MARKERS AND 73 CENTRALIZERS		
00:30	5.00	05:30	5	COND MUD & CIRC	CONDITION MUD & CIRCULATE WHILE RECIPROCATING PIPE		
05:30	0.50	06:00	12	RUN CASING & CEMENT	R/U CEMENTERS		
16-33D-35 BTR 5/2/2014 06:00 - 5/2/2014 18:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	6.00	12:00	12	RUN CASING & CEMENT	R/U CEMENT EQUIPMENT - S/M - Cement prod csg as follows: Press test lines to 5000 psi. Pump 40 bbls Tuned Spacer @10.7 ppg, 3.81 yld, 25.32 gps H2O. Shutdown, Mix and pump 271BBLS ( 650 sx) Lead Tuned Lite cmt @ 11 ppg, 2.34 yld, 10.12 gps H2O. Shutdown, Pump 240 BBLS Tail (930 sx) Econocem cmt @ 13.5 ppg, 1.45 yld, 6.91 gps H2O. Shutdown, Drop Plug. Displace w/212 bbls H2O w/Cla-web & Aldacide. Slow rate to bump the plug @ 1994psi, Bump Plug @ 2636, Got 82bbls of Cement to Surface, Check Floats and got 2 bbls back, R/D Halliburton		
12:00	6.00	18:00	14	NIPPLE UP B.O.P	NIPPLE DOWN BOP, CLEAN MUD TANKS, RIG DOWN, WORK ON ROAD LEAVING OLD LOCATION CULVERT COLLAPSED AND HAD TO MOUND OVER TO GET RIG OVER. RIG RELEASE AT 1800 HRS.		
16-33D-35 BTR 5/5/2014 06:00 - 5/6/2014 06:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	24.00	06:00	GOP	General Operations	N/D 11" NITE CAP. N/U 7" 5K TBG HEAD & TEST VOID AND SEALS. N/U 7" NITE CAP. SWI.		
16-33D-35 BTR 5/6/2014 06:00 - 5/7/2014 06:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	24.00	06:00	LOGG	Logging	MIRU CUTTERS. HSM. RIH W/ GR/JB AND TAG FILL AT 9145'. DRLG SHOWS FC AT 9134' (NO FILL). RUN CBL LOG- CMT SHOWS TD-4700' GOOD W/ FAIR SPOTS, 4700'-4200' FAIR, 4200'-2600' POOR AND RATTY. TOC EST 2600'. RDMO CUTTERS. (MADE 2 RUNS- 1ST RUN WITH NO PRESSURE, 2ND RUN WITH 1000 PSI PRESSURE. NO DIFFERENCE IN CMT QUALITY) TOOL FAILED 3525' ON 2ND LOG.		
16-33D-35 BTR 5/20/2014 06:00 - 5/21/2014 06:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 8400 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.		
16-33D-35 BTR 5/23/2014 06:00 - 5/24/2014 06:00							
API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion	
Time Log							
Start Time	Dur (hr)	End Time	Code	Category	Com		
06:00	1.00	07:00	CTRL	Crew Travel	ARRIVE ON LOCATION 7AM		

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	0.10	07:06	SMTG	Safety Meeting	DISCUSS OVER HEAD LOADS WHILE RIGGING UP.
07:06	1.00	08:06	SRIG	Rig Up/Down	MIRU CASSED HOLE
08:06	1.30	09:24	WLWK	Wireline	PERF STG 1-- PERF CR 4, CR 4A, AND CR 5, FORM 8797'-9121' WITH 45 HOLES IN 15' NET. SHUT IN AND SECURE WELL.
09:24	3.00	12:24	SRIG	Rig Up/Down	MIRU HES
12:24	17.60	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT

**16-33D-35 BTR 5/24/2014 06:00 - 5/25/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-013-52163	UT	Duchesne	Black Tail Ridge	PRODUCING	9,255.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	CTRL	Crew Travel	CREW ARRIVED ON LOC @ 5:00 AM
06:00	0.50	06:30	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
06:30	1.50	08:00	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9500 PSI. OPEN WELL W/ 95 PSI AT 06:47 BREAK DOWN 3607 PSI AT 9.7 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2990 PSI. FLUSH W/ 8589 GAL. 29.5 BPM AT 3670 PSI. BALL OUT. ( DID NOT SEE MUCH BALL ACTION) SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 67 BPM AT 4334 PSI. ISDP 2956 . FG .77. PERFS OPEN 42/45  ISIP 3266 , FG .80, MR 70.3 BPM, AR 70 BPM, MP 3990 (ON BALL OUT) PSI, AP 3670 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, and 4.0 ppg SLK WTR 1556 BBL, 20# HYBOR G (16) 1494 BBL, BTR 3155 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
08:00	1.30	09:18	WLWK	Wireline	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8483'-8505'. RUN DOWN AND SET 5-1/2" CBP AT 8778' WITH 2700 PSI. PULL UP AND PERF CR 3 AND CR 4 FORM 8505'-8758' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1700 PSI. TURN WELL OVER TO HES.
09:18	1.20	10:30	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 2020 PSI AT 9:20 BREAK DOWN 2960 PSI AT 10 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2800 PSI. FLUSH W/ 8304 GAL. 30 BPM AT 3240 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70 BPM AT 3920 PSI. ISDP 2687. FG .75. PERFS OPEN 45/45  ISIP 3064 , FG .79, MR 70.1 BPM, AR 69.7 BPM, MP 8180 (ON BALL OUT) PSI, AP 3200 PSI 20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg SLK WTR 1422 BBL, 20# HYBOR G (16) 1503 BBL, BTR 3017 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
10:30	1.10	11:36	WLWK	Wireline	PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 8494' WITH 2700 PSI. PULL UP AND PERF CR AND CR 3 FORM 8257'-8481' WITH 42 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2500 PSI. TURN WELL OVER TO HES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:36	1.20	12:48	FRAC	Frac. Job	<p>FRAC STG 3            PRESSURE TEST LINES TO 9400 PSI.            OPEN WELL W/ 2535 PSI AT 11:46AM            BREAK DOWN 2630 PSI AT 5 BPM.            PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10 BPM AT 2790 PSI.            FLUSH W/ 8062 GAL. 29.5 BPM AT 3350 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.            STAGE FR PAD. STABLE RATE OF 71 BPM AT 4690 PSI. ISDP 2861 . FG .78.            PERFS OPEN 42/42            " 1,700 gals into 3lb blendered died for 4 mins got it back up and running pumped 6,300 gal flush went back to sand on 3lb stage pumped job to design. Crew unsure of what happend why blender died."              ISIP 2975 , FG .79, MR 70.5 BPM, AR 69 BPM, MP 7730 (ON BALL OUT) PSI, AP 3350 PSI            20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg            SLK WTR 1421 BBL, 20# HYBOR G (16) 1490 BBL, BTR 3004 BBLs              SHUT IN AND TURN OVER TO CASED HOLE.</p>
12:48	1.30	14:06	WLWK	Wireline	<p>PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2800 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 8245' WITH PSI. PULL UP AND PERF STG 4 WASATCH AND CR 2 FORM 8012'-8230' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2400 PSI. TURN WELL OVER TO HES.</p>
14:06	1.30	15:24	FRAC	Frac. Job	<p>FRAC STG 4            PRESSURE TEST LINES TO 9300 PSI.            OPEN WELL W/ 2360 PSI AT 14:22            BREAK DOWN 2530 PSI AT 10 BPM.            PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2560 PSI.            FLUSH W/ 7823 GAL. 30 BPM AT PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.            STAGE FR PAD. STABLE RATE OF 70 BPM AT 3809 PSI. ISDP 2487. FG .74.            PERFS OPEN 45/45              ISIP 2581 , FG .76, MR 71.4 BPM, AR 70.4 BPM, MP 8501 (ON BALL OUT) PSI, AP 2880 PSI            20/40 WHITE 150,000 lbs 2.0, 3.0, 3.5, AND 4.0 ppg            SLK WTR 1275 BBL, 20# HYBOR G (16) 1359 BBL, BTR 2727 BBLs              SHUT IN AND TURN OVER TO CASED HOLE.</p>
15:24	1.20	16:36	WLWK	Wireline	<p>PERF STG #5- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 5 INTO LUBE AND EQUALIZE PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 7685' WITH PSI. PULL UP AND PERF STG 5 CASTLE PEAK, UTELAND BUTTE, CR 1 FORM 7687'-7956' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2000 PSI. SDFN LOCK AND SECURE WELL</p>
16:36	13.40	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT.

**16-33D-35 BTR 5/25/2014 06:00 - 5/26/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	SMTG	Safety Meeting	AOL 06:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
07:00	1.00	08:00	FRAC	Frac. Job	<p>FRAC STG 5 PRESSURE TEST LINES TO 9300 PSI. OPEN WELL W/ 1690 PSI AT 6:55 AM BREAK DOWN 2315 PSI AT 10 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2090 PSI. FLUSH W/ 7506 GAL. 30 BPM AT 2540 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.2 BPM AT 3670 PSI. ISDP 2272. FG .73. PERFS OPEN 42/45 ISIP 2544, FG .76, MR 70.4 BPM, AR 70.1 BPM, MP 3656 PSI AP 3371 PSI 100 MESH 15,900 lbs .75 ppg 20/40 WHITE 151,600 lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 866 BBL, 20# HYBOR G (16) 2164 BBL, BTR 3123 BBLs TURN OVER TO CASED HOLE.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:00	1.34	09:20	PFRT	Perforating	PERF STG #6- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 6 INTO LUBE AND EQUALIZE 2200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7164'-7186'. RUN DOWN AND SET 5-1/2" CBP AT 7672' WITH 2200 PSI. PULL UP AND PERF CASTLE PEAK FORM 7411'-7665' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1700 PSI. TURN WELL OVER TO HES.
09:20	1.40	10:44	FRAC	Frac. Job	FRAC STG 6 PRESSURE TEST LINES TO 9010 PSI. OPEN WELL W/ 1640 PSI AT BREAK DOWN 1830 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 1737 PSI. FLUSH W/ 7236 GAL. 30.0 BPM AT 2210 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 3435 PSI. ISDP 1873. FG .69. PERFS OPEN 38/45 ISIP 2190 , FG .69, MR 70.6 BPM, AR 70.3 BPM, MP 3294 PSI, AP 3033 PSI 100 MESH 159,20 lbs .75 ppg 20/40 WHITE lbs 1.0, 2.0, 3.0, 3.5, 4.0 ppg SLK WTR 1338 BBL, 20# HYBOR G (16) 2065 BBL, BTR 3483 BBLs TURN OVER TO CASEDHOLE.
10:44	1.00	11:44	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1700 PSI. RIH AND CORRELATE TO SHORT JT 7164'-7186. SET KILL PLUG AT 7305' WITH 1650 PSI. BLEED OFF AS POOH.
11:44	3.00	14:44	SRIG	Rig Up/Down	RDMO HES AND CASEDHOLE.
14:44	15.26	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. STACK WTR. MOVE OFF FRAC LINE.

**16-33D-35 BTR 5/26/2014 06:00 - 5/27/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	BOPI	Install BOP's	SLIDE ROTO OUT. BLEED OFF PRESSURE. ND FRAC VALVES. NU BOP AND HYDRIL.
08:30	1.50	10:00	SRIG	Rig Up/Down	RUSU. RU FLOOR. X-O FOR TBG.
10:00	2.00	12:00	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 293-JTS 2-7/8" L-80 TBG.
12:00	1.00	13:00	RUTB	Run Tubing	MU 4-3/4" BIT, POBS, 1-JT, 2.31 XN AND RIH AS MEAS / PU 2-7/8" L-80 TBG. SLIPS BROKE
13:00	3.00	16:00	DTIM	Downtime	REPAIR SLIPS, NO BODY ON CALL AT KEY FOR ASSISTANCE.
16:00	2.00	18:00	RUTB	Run Tubing	CONT RIH W/ TBG TO TAG KILL PLUG AT 7305' WITH 231-JTS IN.
18:00	1.00	19:00	SRIG	Rig Up/Down	RU PWR SWIVEL. FILL TBG AND PRES TEST TO 2000 PSI. GOOD. SDFN.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

**16-33D-35 BTR 5/27/2014 06:00 - 5/28/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	11.50	18:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS  CBP #1 AT 7305'. 0' FILL. D/O IN 20 MIN. FCP 1700 PSI ON 26/64" CBP #2 TAG FILL AT 7660'. 30 MIN TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 7675'. D/O CBP IN 1.5 HRS. FCP 850 PSI. CBP #3 TAG FILL AT 7957'. 1.5 HR TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 7972'. D/O CBP IN 1 HR. FCP AT 850 PSI. CBP #4 TAG FILL AT 8230'. 1.0 HR TO D/O PLUG REMAINS AND C/O 15' FILL TO PLUG AT 8245'. D/O CBP IN 1.5 HR. FCP AT 850 PSI. TAG FILL ON #5 AT 8481'. DRILL FOR 3.5 HRS. COULD NOT D/O PLUG #4 REMAINS ON FILL.
18:30	0.50	19:00	GOP	General Operations	LD 1-JT AND SECURE TBG WITH CSG FLOW TO FBC AND TREATER.
19:00	11.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO PRODUCTION.

**16-33D-35 BTR 5/28/2014 06:00 - 5/29/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
07:00	4.00	11:00	DOPG	Drill Out Plugs	EST CIRC. ABLE TO C/O PLUG REMAINS AND FILL TO CBP #5 AT 8494'. D/O IN 2 HRS. FCP 550 ON 24/64" CHOKE. RIH. UNABLE TO D/O PLUG REMAINS ON FILL OF #6. STARTED GETTING STICKY. CIRC CLEAN.	
11:00	1.00	12:00	SRIG	Rig Up/Down	RD PWR SWIVEL	
12:00	2.00	14:00	PULT	Pull Tubing	POOH W/ 222-JTS 2-7/8" TBG. HAVE 50-JTS IN HOLE. SDFN WITH WELL FLOWING TO TREATER	
14:00	16.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.	

**16-33D-35 BTR 5/29/2014 06:00 - 5/30/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	1.00	08:00	GOP	General Operations	WELL FLOWING TO TREATER. 650 PSI ON 24/64" CHOKE. SHUT IN AND LUBE IN HANGER. RD FLOOR. ND HYDRIL.	
08:00	1.50	09:30	SRIG	Rig Up/Down	HSM. RU MT STATES SNUB UNIT TO BOP. SICP 1050 PSI.	
09:30	1.00	10:30	PULT	Pull Tubing	EQUALIZE AND LUBE OUT HANGER. OPEN WELL TO FLOW TO TREATER. POOH W/ 50-JTS TBG AND POBS. BIT MISING 2 CONES.	
10:30	2.00	12:30	RUTB	Run Tubing	MU 4-3/4" MILL, FLOAT SUB, POBS, AND SNUB IN HOLE WITH 100-JTS. PUMP 20 BBLs DOWN TBG. LUBE IN AND LAND HANGER.	
12:30	1.50	14:00	SRIG	Rig Up/Down	RD MT STATES SNUB UNIT.	
14:00	1.00	15:00	GOP	General Operations	NU HYDRIL. RU FLOOR. LUBE OUT HANGER.	
15:00	1.50	16:30	RUTB	Run Tubing	CONT RIH W/ TBG TO TAG FILL ON #6 AT 8600'. RU PWR SWIVEL.	
16:30	2.00	18:30	CLN	Clean Out Hole	EST CIRC AND D/O #5 PLUG REMAINS. C/O 178' FILL TO CBP #6 AT 8778'. GETTING LOW ON WTR. CIRC CLEAN.	
18:30	0.50	19:00	PULT	Pull Tubing	HANG PWR SWIVEL. PULL 4-JTS TBG. TURN OVER TO FBC AND PRODUCTION.	
19:00	11.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.	

**16-33D-35 BTR 5/30/2014 06:00 - 5/31/2014 06:00**

API 43-013-52163	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 9,255.0	Primary Job Type Drilling & Completion
---------------------	----------------------	--------------------	--------------------------------	--------------------------	-------------------------------	---

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	1.00	08:00	RUTB	Run Tubing	RUN BACK IN W/ 4-JTS TBG. RU PWR SWIVEL. EST CIRC.	
08:00	1.00	09:00	DOPG	Drill Out Plugs	C/O 15' SAND TO CBP AT 8778'. D/O IN 25 MIN. FCP 150 PSI ON 24/64" CHOKE. RIH.	
09:00	1.75	10:45	CLN	Clean Out Hole	TAG SAND AT 9064'. C/O 70' FILL TO FC AT 9134'. D/O FC AND 20' CMT TO 9154' W/ 288-JTS IN	
10:45	0.50	11:15	GOP	General Operations	CIRC HOLE CLEAN.	
11:15	1.50	12:45	PULT	Pull Tubing	RD PWR SWIVEL. POOH AS LD 58-JTS TBG. LUBE IN AND LAND HANGER.  TBG DETAIL KB 13.00 HANGER .85 229-JTS 2-7/8" L-80 7283.66 2.31 XN NIPPLE 1.10 1-JT 2-3/8" L-80 31.80 POBS .85  EOT AT 7331.26	
12:45	1.25	14:00	BOPR	Remove BOP's	RD FLOOR. ND HYDRIL AND BOP. NU WH POBS AT 2800 PSI.	
14:00	1.00	15:00	SRIG	Rig Up/Down	RDSU. RACK OUT EQUIP. MOVE OFF. TURN OVER TO FBC AND SALES. (OPEN TO FB TANK TO RECOVER WTR TILL START GETTING GAS AND OIL. TURN TO TREATER)	
15:00	15.00	06:00	FBCK	Flowback Well	WELL TURNED OVER TO FBC AND PRODUCTION.	



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

<b>Project</b>	Fort Duchesne		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Southern Zone		

<b>Site</b>	SECTION 33 T3S, R5W		
<b>Site Position:</b>		<b>Northing:</b>	11,120,388.05 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,933,852.68 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 10' 13.550 N
		<b>Longitude:</b>	110° 27' 3.070 W
		<b>Grid Convergence:</b>	0.64 °

<b>Well</b>	16-33D-35 BTR, SHL: 40° 10' 13.550 -110° 27' 3.070					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,120,388.04 usft	<b>Latitude:</b>	40° 10' 13.550 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,933,852.68 usft	<b>Longitude:</b>	110° 27' 3.070 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	5,684.0 usft	<b>Ground Level:</b>	5,671.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	4/15/2014	11.13	65.75	52,003

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>		<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
		0.0	0.0	0.0	58.47

<b>Survey Program</b>	Date 5/4/2014				
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
140.0	9,255.0	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
140.0	0.35	290.58	140.0	-0.3	0.2	-0.4	0.25	0.25	0.00	
232.0	0.74	224.00	232.0	-1.0	-0.2	-1.1	0.74	0.42	-72.37	
324.0	0.92	233.54	324.0	-2.3	-1.0	-2.1	0.25	0.20	10.37	
416.0	0.13	137.08	416.0	-3.0	-1.6	-2.6	1.03	-0.86	-104.85	
508.0	0.50	49.50	508.0	-2.6	-1.4	-2.2	0.56	0.40	-95.20	
599.0	0.90	37.40	599.0	-1.6	-0.6	-1.5	0.47	0.44	-13.30	
684.0	1.67	59.21	684.0	0.3	0.6	0.0	1.06	0.91	25.66	
768.0	1.80	58.20	767.9	2.8	1.9	2.1	0.16	0.15	-1.20	
852.0	2.60	53.10	851.9	6.1	3.8	4.8	0.98	0.95	-6.07	
937.0	3.70	55.20	936.7	10.7	6.5	8.6	1.30	1.29	2.47	
1,021.0	4.30	51.80	1,020.5	16.6	10.0	13.3	0.77	0.71	-4.05	
1,105.0	5.20	52.00	1,104.2	23.5	14.3	18.8	1.07	1.07	0.24	
1,190.0	5.90	56.50	1,188.8	31.7	19.1	25.4	0.97	0.82	5.29	
1,274.0	6.90	54.20	1,272.3	41.0	24.4	33.1	1.23	1.19	-2.74	
1,358.0	7.80	51.60	1,355.6	51.7	30.9	41.7	1.14	1.07	-3.10	
1,442.0	9.10	51.30	1,438.7	63.9	38.6	51.3	1.55	1.55	-0.36	
1,527.0	9.90	50.60	1,522.5	77.9	47.4	62.2	0.95	0.94	-0.82	
1,611.0	10.70	52.70	1,605.2	92.8	56.7	74.0	1.05	0.95	2.50	
1,695.0	10.90	56.70	1,687.7	108.5	65.8	86.9	0.92	0.24	4.76	
1,780.0	10.90	59.00	1,771.2	124.5	74.4	100.5	0.51	0.00	2.71	
1,864.0	10.40	58.00	1,853.7	140.1	82.5	113.7	0.63	-0.60	-1.19	
1,948.0	10.10	57.20	1,936.4	155.0	90.5	126.3	0.40	-0.36	-0.95	
2,032.0	9.40	55.40	2,019.2	169.2	98.4	138.2	0.91	-0.83	-2.14	
2,117.0	10.00	52.90	2,102.9	183.5	106.8	149.8	0.86	0.71	-2.94	
2,201.0	10.50	52.20	2,185.6	198.4	115.9	161.6	0.61	0.60	-0.83	
2,285.0	10.70	54.70	2,268.2	213.7	125.1	174.0	0.60	0.24	2.98	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
2,369.0	11.50	53.60	2,350.6	229.9	134.5	187.1	0.99	0.95	-1.31
2,454.0	11.40	53.30	2,433.9	246.7	144.6	200.7	0.14	-0.12	-0.35
2,538.0	11.70	52.20	2,516.2	263.4	154.8	214.1	0.44	0.36	-1.31
2,623.0	11.10	49.60	2,599.5	280.1	165.3	227.1	0.93	-0.71	-3.06
2,707.0	10.90	52.53	2,682.0	296.0	175.4	239.6	0.71	-0.24	3.49
2,791.0	11.00	56.50	2,764.5	311.9	184.7	252.6	0.91	0.12	4.73
2,875.0	11.10	58.00	2,846.9	328.0	193.4	266.1	0.36	0.12	1.79
2,960.0	11.50	54.50	2,930.3	344.6	202.6	280.0	0.93	0.47	-4.12
3,049.0	11.90	56.50	3,017.4	362.6	212.9	294.8	0.64	0.45	2.25
3,165.0	11.70	56.50	3,131.0	386.3	225.9	314.6	0.17	-0.17	0.00
3,249.0	9.80	58.30	3,213.5	402.0	234.4	327.8	2.30	-2.26	2.14
3,334.0	11.20	54.30	3,297.1	417.5	243.0	340.7	1.86	1.65	-4.71
3,419.0	12.00	56.00	3,380.3	434.5	252.8	354.7	1.02	0.94	2.00
3,503.0	11.30	59.90	3,462.6	451.5	261.8	369.0	1.25	-0.83	4.64
3,587.0	11.90	58.30	3,544.9	468.4	270.5	383.5	0.81	0.71	-1.90
3,672.0	11.70	59.20	3,628.1	485.7	279.5	398.4	0.32	-0.24	1.06
3,756.0	10.80	51.80	3,710.5	502.1	288.7	411.9	2.02	-1.07	-8.81
3,840.0	11.30	48.20	3,792.9	518.0	299.1	424.2	1.01	0.60	-4.29
3,925.0	11.70	45.50	3,876.2	534.6	310.7	436.6	0.79	0.47	-3.18
4,009.0	12.10	44.10	3,958.4	551.4	323.0	448.8	0.59	0.48	-1.67
4,093.0	12.30	45.40	4,040.5	568.7	335.6	461.3	0.40	0.24	1.55
4,177.0	12.70	45.40	4,122.5	586.4	348.3	474.2	0.48	0.48	0.00
4,262.0	12.00	47.10	4,205.5	604.1	360.9	487.3	0.93	-0.82	2.00
4,346.0	11.40	46.70	4,287.8	620.8	372.5	499.8	0.72	-0.71	-0.48
4,431.0	11.70	48.00	4,371.1	637.5	384.1	512.3	0.47	0.35	1.53
4,515.0	9.80	48.00	4,453.6	652.9	394.6	523.9	2.26	-2.26	0.00
4,600.0	10.10	44.10	4,537.3	667.3	404.7	534.5	0.87	0.35	-4.59



## Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,684.0	9.80	44.20	4,620.1	681.3	415.2	544.6	0.36	-0.36	0.12
4,768.0	8.60	44.70	4,703.0	694.3	424.7	554.0	1.43	-1.43	0.60
4,852.0	8.00	46.00	4,786.1	706.2	433.3	562.6	0.75	-0.71	1.55
4,936.0	6.50	47.80	4,869.4	716.5	440.5	570.4	1.81	-1.79	2.14
5,021.0	4.70	50.70	4,954.0	724.7	446.0	576.6	2.14	-2.12	3.41
5,105.0	3.40	56.20	5,037.8	730.6	449.5	581.4	1.61	-1.55	6.55
5,190.0	2.00	58.10	5,122.7	734.6	451.7	584.7	1.65	-1.65	2.24
5,274.0	1.05	81.49	5,206.7	736.8	452.6	586.7	1.33	-1.13	27.85
5,358.0	1.01	136.33	5,290.7	737.7	452.2	588.0	1.13	-0.05	65.29
5,443.0	1.49	159.38	5,375.6	737.6	450.6	588.9	0.81	0.56	27.12
5,527.0	1.63	171.97	5,459.6	736.9	448.4	589.4	0.44	0.17	14.99
5,611.0	1.27	190.43	5,543.6	735.8	446.3	589.4	0.70	-0.43	21.98
5,695.0	1.76	190.34	5,627.6	734.3	444.1	589.0	0.58	0.58	-0.11
5,780.0	1.27	187.09	5,712.5	732.9	441.9	588.7	0.59	-0.58	-3.82
5,864.0	1.76	195.40	5,796.5	731.4	439.7	588.2	0.64	0.58	9.89
5,949.0	1.80	192.60	5,881.5	729.5	437.2	587.6	0.11	0.05	-3.29
6,033.0	1.10	208.50	5,965.4	727.9	435.2	586.9	0.95	-0.83	18.93
6,117.0	2.00	210.30	6,049.4	725.9	433.2	585.8	1.07	1.07	2.14
6,202.0	1.80	191.80	6,134.3	723.6	430.6	584.8	0.76	-0.24	-21.76
6,286.0	1.14	198.07	6,218.3	722.1	428.5	584.2	0.81	-0.79	7.46
6,370.0	1.85	192.71	6,302.3	720.5	426.4	583.7	0.86	0.85	-6.38
6,454.0	1.32	195.88	6,386.3	718.9	424.2	583.1	0.64	-0.63	3.77
6,539.0	1.70	189.60	6,471.2	717.3	422.0	582.7	0.49	0.45	-7.39
6,623.0	1.50	189.90	6,555.2	715.8	419.7	582.3	0.24	-0.24	0.36
6,707.0	1.36	186.70	6,639.2	714.4	417.6	581.9	0.19	-0.17	-3.81
6,791.0	1.76	183.00	6,723.1	713.1	415.3	581.8	0.49	0.48	-4.40
6,876.0	1.76	183.60	6,808.1	711.6	412.7	581.6	0.02	0.00	0.71



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
6,960.0	0.81	144.50	6,892.1	710.9	410.9	581.9	1.48	-1.13	-46.55	
7,044.0	1.32	107.77	6,976.1	711.5	410.2	583.1	0.99	0.61	-43.73	
7,129.0	2.00	92.20	7,061.0	713.4	409.8	585.6	0.95	0.80	-18.32	
7,213.0	0.97	187.26	7,145.0	714.2	409.0	586.9	2.74	-1.23	113.17	
7,297.0	2.02	201.98	7,229.0	712.6	407.0	586.3	1.32	1.25	17.52	
7,381.0	0.80	203.30	7,312.9	710.9	405.0	585.5	1.45	-1.45	1.57	
7,466.0	2.29	188.14	7,397.9	709.3	402.8	585.0	1.80	1.75	-17.84	
7,550.0	1.27	171.88	7,481.9	707.9	400.2	584.9	1.34	-1.21	-19.36	
7,635.0	2.40	176.40	7,566.8	706.7	397.5	585.2	1.34	1.33	5.32	
7,722.0	1.00	234.80	7,653.8	705.1	395.3	584.7	2.37	-1.61	67.13	
7,809.0	1.40	211.70	7,740.8	703.3	393.9	583.5	0.71	0.46	-26.55	
7,894.0	2.10	201.60	7,825.7	701.2	391.6	582.4	0.90	0.82	-11.88	
7,978.0	1.76	185.30	7,909.7	699.2	388.9	581.7	0.76	-0.40	-19.40	
8,062.0	0.90	196.70	7,993.7	697.9	387.0	581.4	1.07	-1.02	13.57	
8,147.0	1.60	190.00	8,078.6	696.6	385.2	581.0	0.84	0.82	-7.88	
8,231.0	0.90	198.10	8,162.6	695.3	383.4	580.6	0.86	-0.83	9.64	
8,315.0	1.30	201.50	8,246.6	694.1	381.9	580.0	0.48	0.48	4.05	
8,400.0	1.60	205.70	8,331.6	692.3	379.9	579.1	0.37	0.35	4.94	
8,484.0	1.76	198.96	8,415.5	690.3	377.6	578.2	0.30	0.19	-8.02	
8,568.0	1.23	183.73	8,499.5	688.8	375.5	577.7	0.78	-0.63	-18.13	
8,653.0	1.54	190.69	8,584.5	687.5	373.5	577.5	0.41	0.36	8.19	
8,737.0	1.71	186.08	8,668.5	686.0	371.1	577.1	0.26	0.20	-5.49	
8,821.0	1.85	190.40	8,752.4	684.3	368.5	576.7	0.23	0.17	5.14	
8,906.0	2.20	190.30	8,837.4	682.3	365.6	576.2	0.41	0.41	-0.12	
8,990.0	2.20	196.20	8,921.3	680.0	362.4	575.5	0.27	0.00	7.02	
9,075.0	2.40	193.90	9,006.2	677.6	359.2	574.6	0.26	0.24	-2.71	
9,159.0	2.64	192.23	9,090.2	675.0	355.6	573.8	0.30	0.29	-1.99	



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well 16-33D-35 BTR
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 33 T3S, R5W	<b>MD Reference:</b>	16-33D-35 BTR @ 5684.0usft (CAPSTAR 328)
<b>Well:</b>	16-33D-35 BTR	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

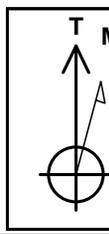
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
9,187.0	2.64	194.47	9,118.1	674.1	354.3	573.5	0.37	0.00	8.00	
9,255.0	2.64	199.91	9,186.1	671.7	351.3	572.5	0.37	0.00	8.00	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Sundry Number: 52551 API Well Number: 43013521630000

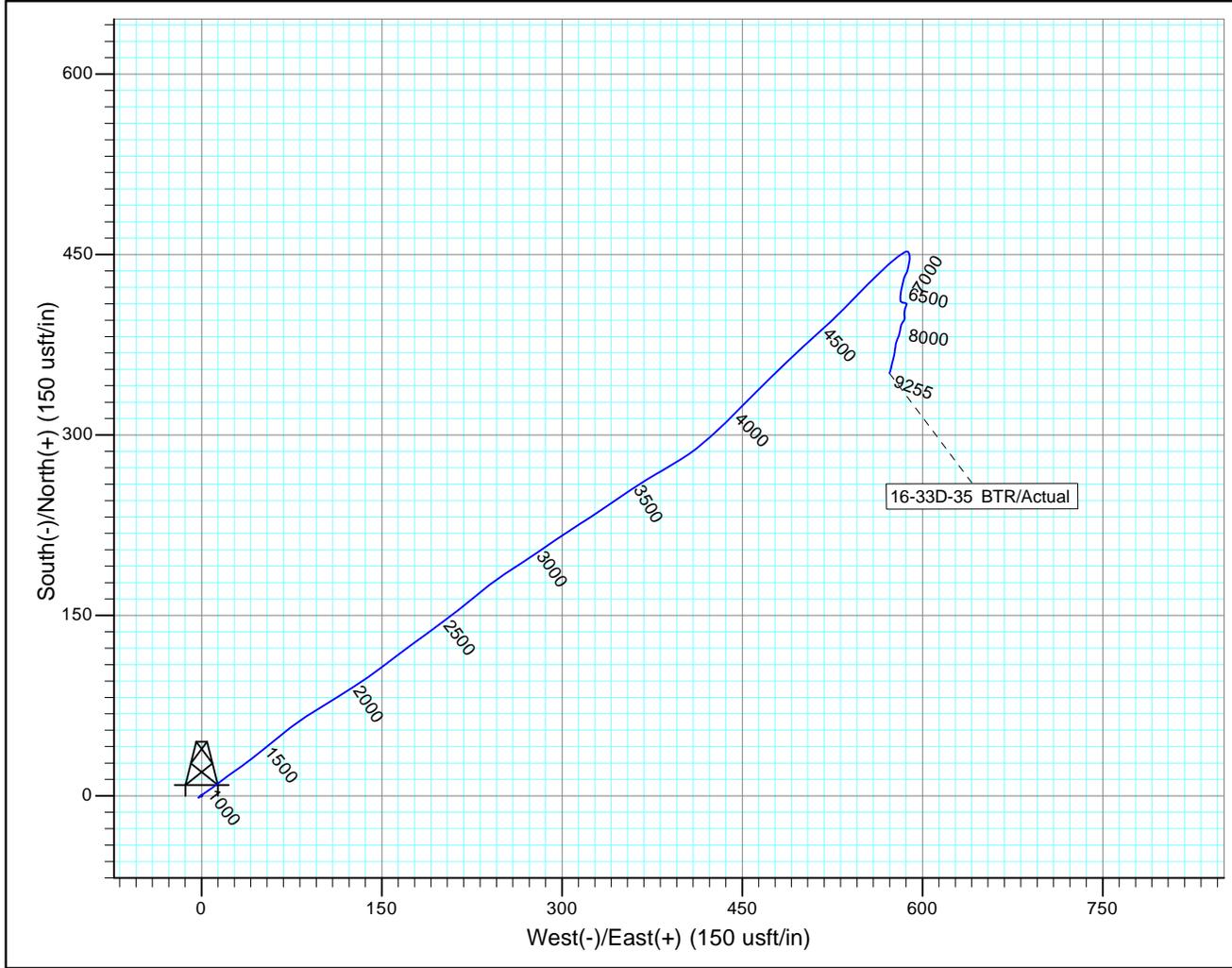
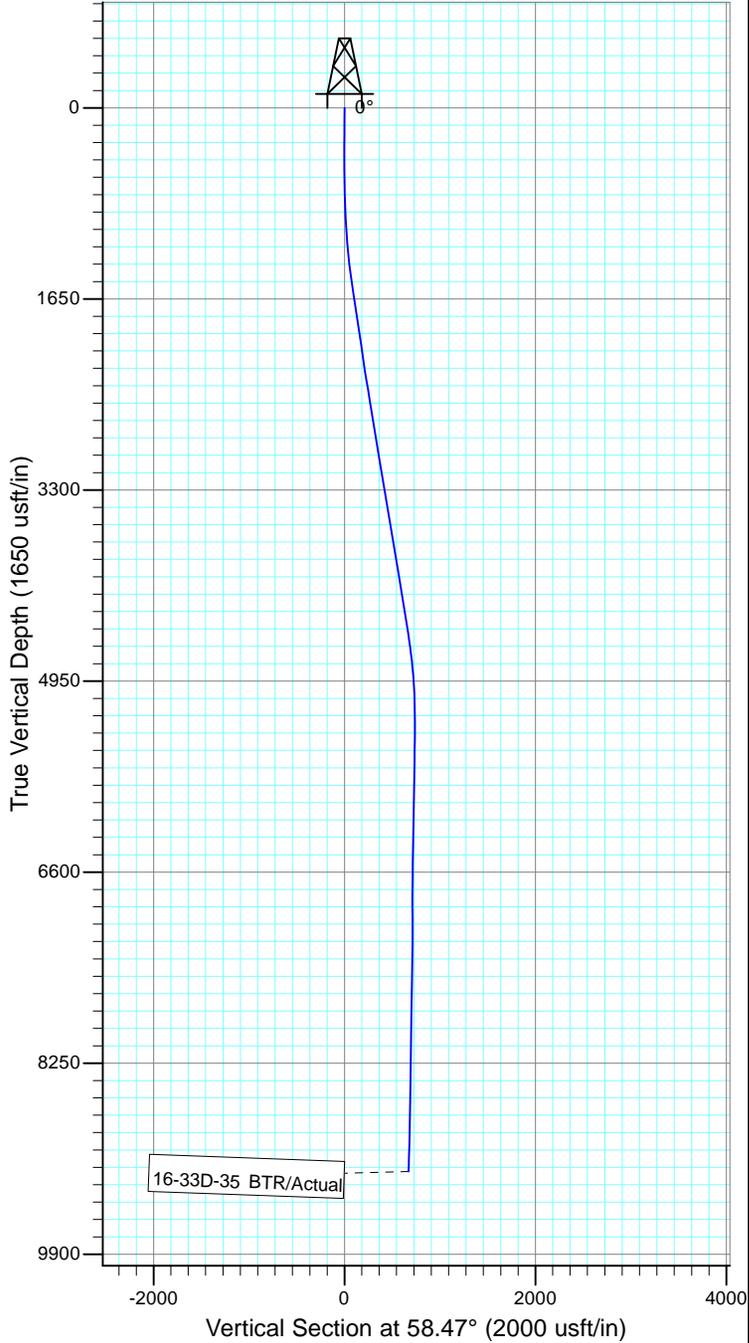


Project: Fort Duchesne  
Site: SECTION 33 T3S, R5W  
Well: 16-33D-35 BTR  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 11.13°

Magnetic Field  
Strength: 52003.3snT  
Dip Angle: 65.75°  
Date: 4/15/2014  
Model: IGRF2010



Design: Actual (16-33D-35 BTR/Wellbore #1)

Created By: *Matthew Linton* Date: 8:45, May 04 2014

THIS SURVEY IS CORRECT TO THE BEST OF  
MY KNOWLEDGE AND IS SUPPORTED  
BY ACTUAL FIELD DATA

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626533	
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> 16-33D-35 BTR	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013521630000	
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0390 FSL 1392 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 33 Township: 03.0S Range: 05.0W Meridian: U		<b>COUNTY:</b> DUCHESNE	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/6/2013  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text" value="Lease"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The tribal lease has been earned for this well. The new lease number is 1420H626533.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 06, 2014</b>			
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 8/6/2014	

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

Effective Date: 11/1/2016

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

**WELL INFORMATION:**

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

**OPERATOR CHANGES DOCUMENTATION:**

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

**REVIEW:**

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

**NEW OPERATOR BOND VERIFICATION:**

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

**DATA ENTRY:**

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

**COMMENTS:**

---

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

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

**New Operator Contact information:**

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

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

Sincerely,

Bill Barrett Corporation

A handwritten signature in black ink that reads 'Brady Riley'.

Brady Riley  
Permit Analyst

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

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

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

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

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

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

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

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

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

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

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

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

(This space for State use only)

**APPROVED**

NOV 07 2016

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

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

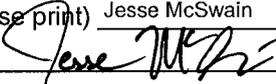
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

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

Check one	Desired Action:
	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	✓	
If so, has the surface agreement been updated?		✓
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?		✓
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?		✓
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?		✓
Has the approved source of water for drilling changed?		✓
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?		✓
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-UDOGM / UTB000712-BLM / LPM9224670-BIA</small>	✓	

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

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

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

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

UIC FORM 5

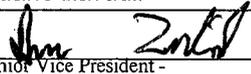
TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 11/1/2016

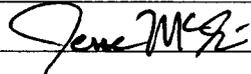
CURRENT OPERATOR

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

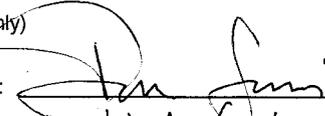
Name: Duane Zavadil  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

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

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

(This space for State use only)

Transfer approved by:   
Title: VIC Geologist

Approval Date: 11/3/16

Comments:

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

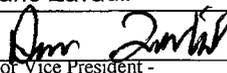
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

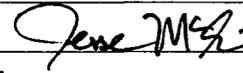
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

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

**NEW OPERATOR**

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

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:

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

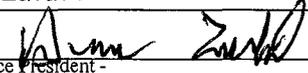
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

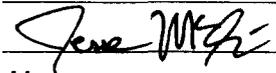
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well  Footage : 0539 FSL 0704 FEL  County : DUCHESNE	Field or Unit Name CEDAR RIM
QQ, Section, Township, Range: SESE 9 3S 6W  State : UTAH	Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

**CURRENT OPERATOR**

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

**NEW OPERATOR**

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

(This space for State use only)

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

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

Comments:

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