

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER 5-16D-45 BTR					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164					
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 20G0005608			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		678 FNL 1061 FWL		NWNW	16	4.0 S	5.0 W	U			
Top of Uppermost Producing Zone		1345 FNL 850 FWL		SWNW	16	4.0 S	5.0 W	U			
At Total Depth		1345 FNL 852 FWL		SWNW	16	4.0 S	5.0 W	U			
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 852			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 5110			26. PROPOSED DEPTH MD: 9246 TVD: 9197					
27. ELEVATION - GROUND LEVEL 6338			28. BOND NUMBER LPM8874725			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown		0	0.0	0.0
Surf	14.75	10.75	0 - 2000	45.5	J-55 ST&C	8.8	Halliburton Light , Type Unknown		480	3.16	11.0
							Halliburton Premium , Type Unknown		360	1.36	14.8
Prod	9.625	5.5	0 - 9246	17.0	P-110 LT&C	9.7	Unknown		1050	2.31	11.0
							Unknown		1310	1.42	13.5
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Venessa Langmacher			TITLE Senior Permit Analyst			PHONE 303 312-8172					
SIGNATURE			DATE 02/09/2012			EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013512230000			APPROVAL			 Permit Manager					

DRILLING PLAN

BILL BARRETT CORPORATION

5-16D-45 BTR Well Pad

NW NW, 678' FNL and 1061' FWL, Section 16, T4S-R5W, USB&M (surface hole)

SW NW, 1345' FNL and 852' FWL, Section 16, T4S-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>
Lower Green River*	4,657'	4,622'
Douglas Creek	5,515'	5,472'
Black Shale	6,395'	6,347'
Castle Peak	6,590'	6,542'
Uteland Butte	6,895'	6,847'
Wasatch*	7,120'	7,072'
TD	9,246'	9,197'

*PROSPECTIVE PAY

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

Base of Useable Water = 5,500'

3. BOP and Pressure Containment Data

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

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
14 3/4"	Surface	2,000'	10-3/4"	45.5#	J or K 55	BT&C	New
9-7/8" & 8-3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

NOTE: If necessary due to lost circulation, BBC would like to request the option to set 7-5/8", 33.70# P-110 LT&C to a depth of 7200', then drill a 6-1/2" hole to TD and run 5-1/2" casing as a 2000' liner (200' liner lap).

Bill Barrett Corporation
 Drilling Program
 #5-16D-45 BTR
 Duchesne County, Utah

4. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
14-3/4" hole for 10-3/4" Surface Casing	<p><i>Lead</i> with approximately 480 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft³/sx) circulated to surface with 75% excess. TOC @ Surface</p> <p><i>Tail</i> with approximately 360 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft³/sx). Calculated hole volume with 75% excess. TOC @ 1,500'</p>
9-7/8 hole for 5 1/2" Production Casing May reduce hole size to 8-3/4" at 6000' if minimal hole problems.	<p><i>Lead</i> with approximately 1050 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft³/sx). TOC @ 1,500'</p> <p><i>Tail</i> with approximately 1310 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). TOC @ 5,895'</p>
<p>NOTE: If 7-5/8" casing is necessary, cement with Lead with approximately 700 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft³/sx). Tail with approximately 240 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft³/sx). Planned TOC surface. We will perform a FIT to 10.2 ppg after drilling 20' of new hole.</p> <p>The 5-1/2" liner would be cemented with 300 sx of Class G 50/50 Poz w/ 2% gel (14.2 ppg) with additives from TD to 200' above TOL.</p>	

6. Mud Program

<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' – 2,000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2,000' – TD	8.6 – 9.7	42 – 52	20 cc or less	DAP Polymer Fluid System
<p>Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.</p>				

7. Testing, Logging and Core Programs

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

Bill Barrett Corporation
Drilling Program
#5-16D-45 BTR
Duchesne County, Utah

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4638 psi* and maximum anticipated surface pressure equals approximately 2615 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

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

9. Auxiliary Equipment

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

10. Location and Type of Water Supply

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

11. Drilling Schedule

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



Bill Barrett Corporation

LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

AS OF: 2/18/2011

Well Name: 5-16D-45 BTR

Surface Hole Data:

Total Depth:	2,000'
Top of Cement:	0'
OD of Hole:	14.750"
OD of Casing:	10.750"

Calculated Data:

Lead Volume:	1460.3	ft ³
Lead Fill:	1,500'	
Tail Volume:	486.8	ft ³
Tail Fill:	500'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	480
--------------	-----

Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	1,500'	

# SK's Tail:	360
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Production Hole Data:

Total Depth:	9,246'
Top of Cement:	1,500'
Top of Tail:	5,895'
OD of Hole:	9.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	2418.6	ft ³
Lead Fill:	4,395'	
Tail Volume:	1844.3	ft ³
Tail Fill:	3,351'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	1050
# SK's Tail:	1310

5-16D-45 BTR Proposed Cementing Program
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<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (1500' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,500'
	Volume: 260.08 bbl
	Proposed Sacks: 480 sks
Tail Cement - (TD - 1500')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 86.69 bbl
	Proposed Sacks: 360 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (5895' - 1500')	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 4,395'
	Volume: 430.74 bbl
	Proposed Sacks: 1050 sks
Tail Cement - (9246' - 5895')	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 5,895'
	Calculated Fill: 3,351'
	Volume: 328.45 bbl
	Proposed Sacks: 1310 sks

PRESSURE CONTROL EQUIPMENT – Schematic Attached

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

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

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

D. Choke Manifold Equipment:

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

E. Accumulator:

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

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

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

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

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

F. Miscellaneous Information:

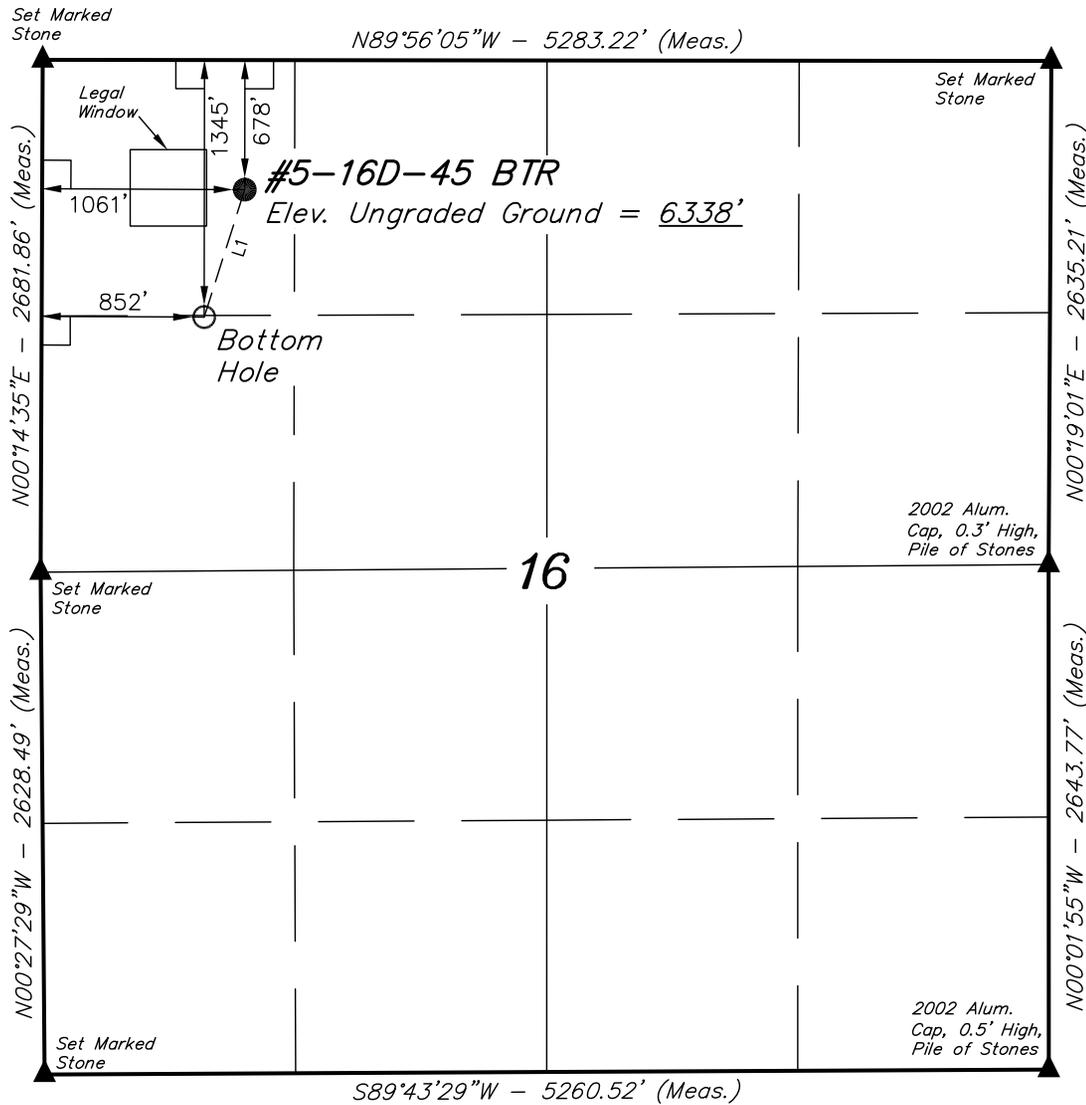
The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but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

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

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

BILL BARRETT CORPORATION

Well location, #5-16D-45 BTR, located as shown in the NW 1/4 NW 1/4 of Section 16, T4S, R5W, U.S.B.&M., Duchesne County, Utah.



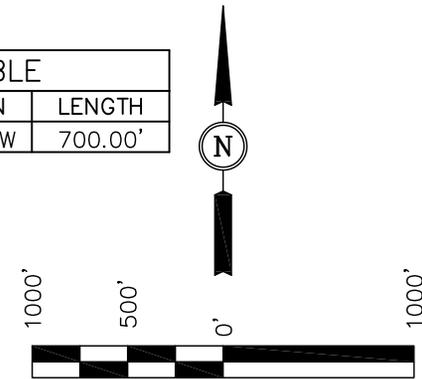
BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S17°40'19"W	700.00'



SCALE

CERTIFICATE

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

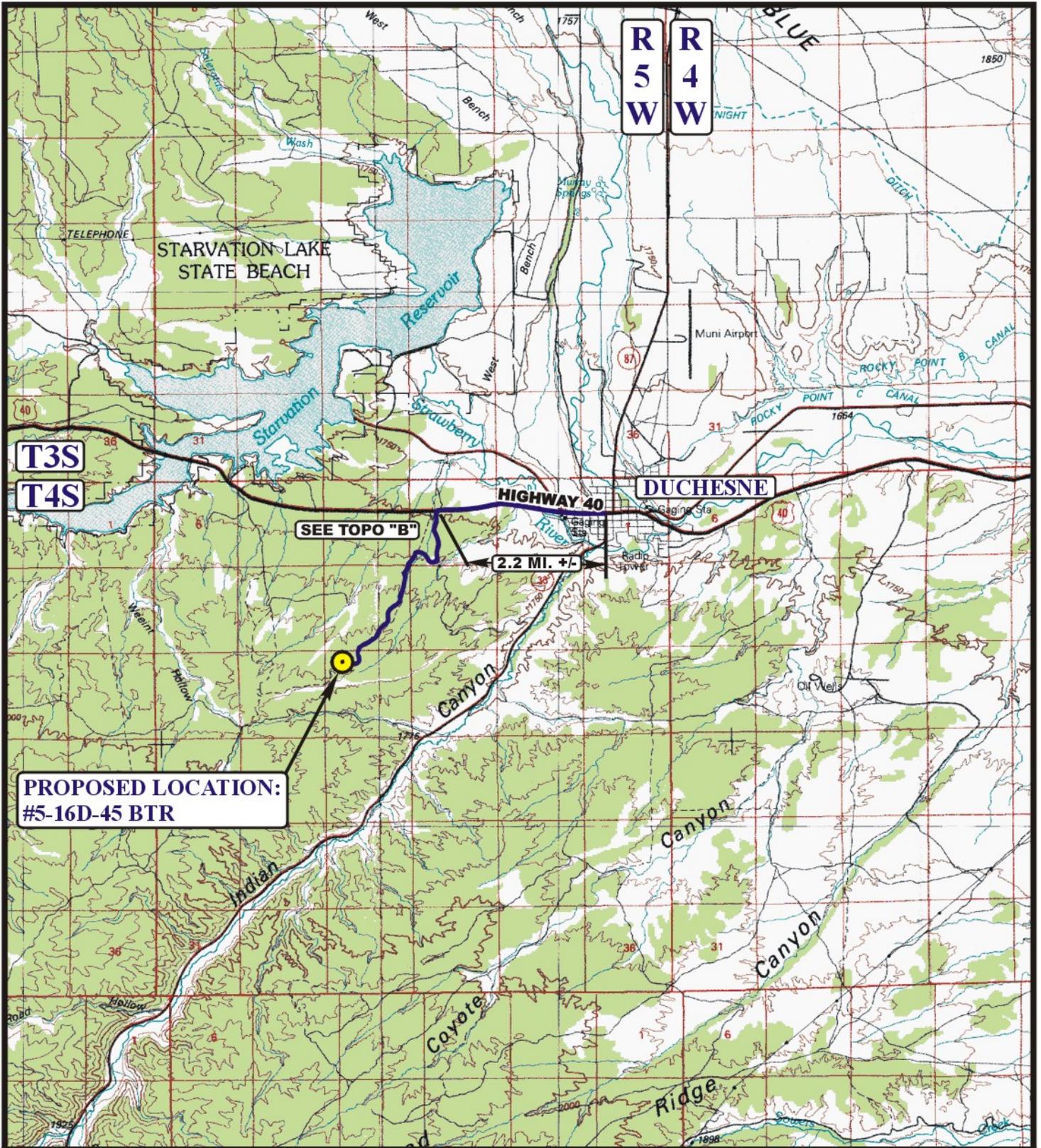
ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°08'11.96" (40.136656)	LONGITUDE = 110°27'41.90" (110.461639)	LATITUDE = 40°08'18.55" (40.138486)	LONGITUDE = 110°27'39.18" (110.460883)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°08'12.11" (40.136697)	LONGITUDE = 110°27'39.34" (110.460928)	LATITUDE = 40°08'18.70" (40.138528)	LONGITUDE = 110°27'36.62" (110.460172)

UINTAH ENGINEERING & LAND SURVEYING		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-26-10	DATE DRAWN: 11-24-10
PARTY D.R. J.T. K.G.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE BILL BARRETT CORPORATION	



LEGEND:

 PROPOSED LOCATION

BILL BARRETT CORPORATION

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL



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



TOPOGRAPHIC
MAP

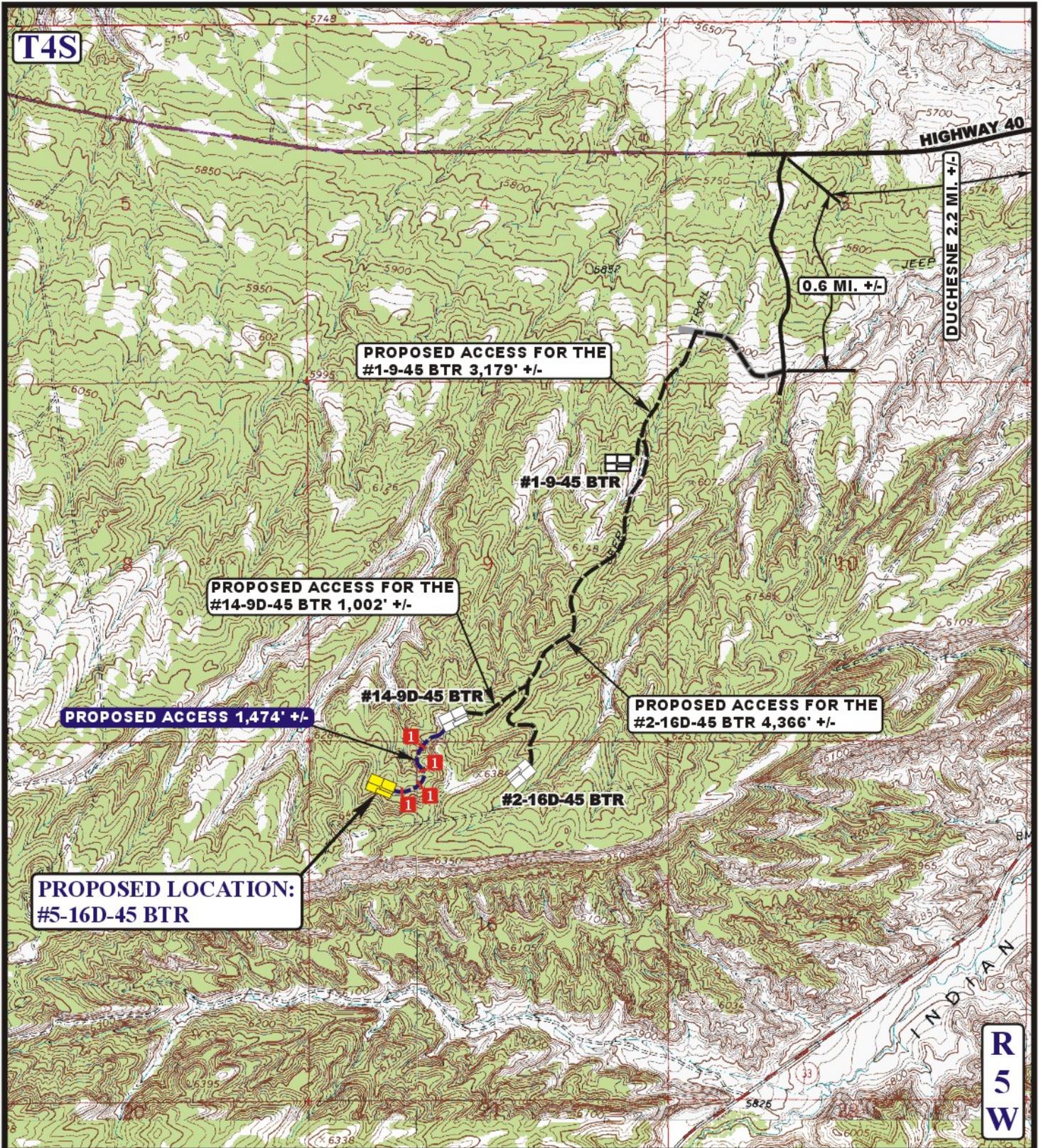
12 01 10
MONTH DAY YEAR

SCALE: 1:100,000

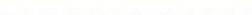
DRAWN BY: J.J.

REVISED: 00-00-00





LEGEND:

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

BILL BARRETT CORPORATION

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL



Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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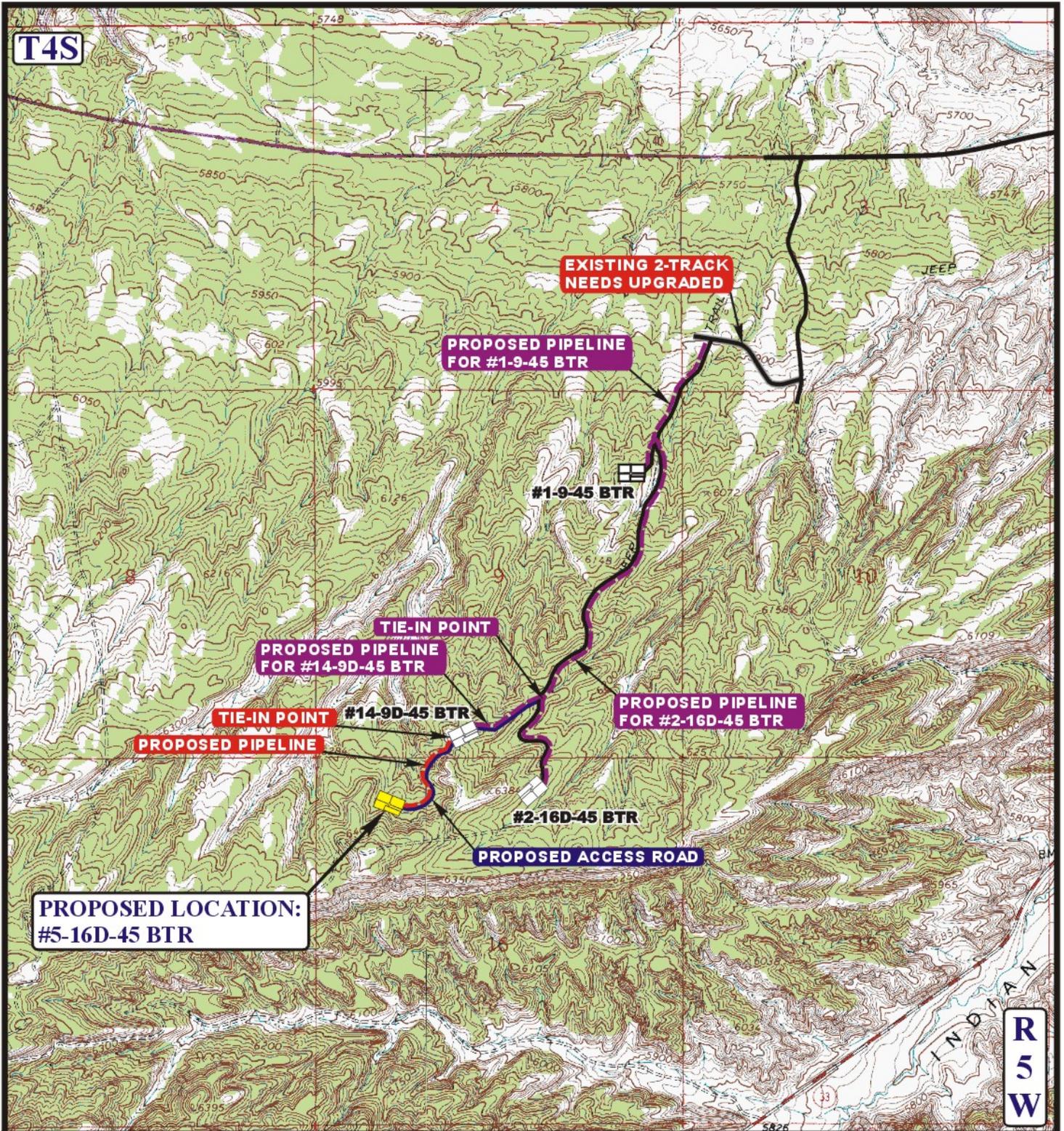


TOPOGRAPHIC
MAP

12 01 10
 MONTH DAY YEAR

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

B
TOPO



APPROXIMATE TOTAL PIPELINE DISTANCE = 1,474' +/-

LEGEND:

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



BILL BARRETT CORPORATION

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL



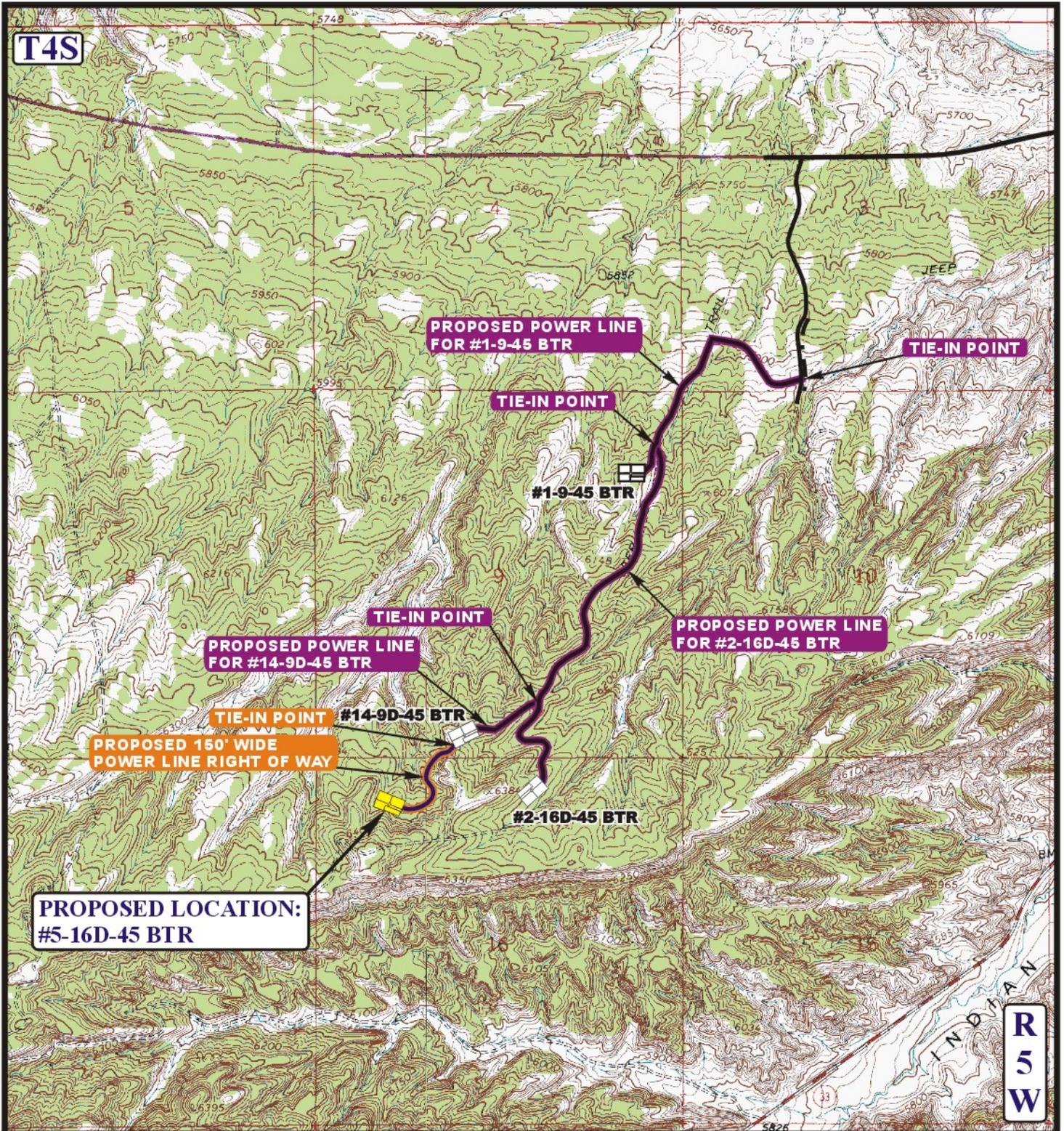
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

12 01 10
 MONTH DAY YEAR

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





APPROXIMATE TOTAL POWER LINE DISTANCE = 1,474' +/-

LEGEND:

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

BILL BARRETT CORPORATION

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL

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



TOPOGRAPHIC 12 01 10
MAP MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00

D
TOPO

Bill Barrett Corp
Duchesne County, UT (NAD 1927)
Sec. 16-T4S-R5W
#5-16D-45 BTR

Plan A Rev 0

Plan: Plan A Rev 0 Proposal

Sperry Drilling Services
Proposal Report

08 April, 2011

Well Coordinates: 659,193.95 N, 2,290,707.57 E (40° 08' 18.70" N, 110° 27' 36.62" W)

Ground Level: 6,331.00 ft

Local Coordinate Origin:	Centered on Well #5-16D-45 BTR
Viewing Datum:	RKB 16' @ 6347.00ft (Patterson 506)
TVDs to System:	N
North Reference:	True
Unit System:	API - US Survey Feet - Custom

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

HALLIBURTON

Plan Report for #5-16D-45 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Kickoff at 1000.00 ft										
1,100.00	2.00	197.58	1,099.98	-1.66	-0.53	1.75	2.00	2.00	0.00	197.58
1,200.00	4.00	197.58	1,199.84	-6.65	-2.11	6.98	2.00	2.00	0.00	0.00
Build Rate = 2.00°/100 ft										
1,300.00	6.00	197.58	1,299.45	-14.96	-4.74	15.69	2.00	2.00	0.00	0.00
1,400.00	8.00	197.58	1,398.70	-26.58	-8.42	27.88	2.00	2.00	0.00	0.00
1,412.50	8.25	197.58	1,411.08	-28.26	-8.96	29.65	2.00	2.00	0.00	0.00
End Build at 1412.50 ft										
1,500.00	8.25	197.58	1,497.67	-40.23	-12.75	42.20	0.00	0.00	0.00	0.00
1,600.00	8.25	197.58	1,596.64	-53.91	-17.08	56.55	0.00	0.00	0.00	0.00
1,700.00	8.25	197.58	1,695.60	-67.59	-21.42	70.90	0.00	0.00	0.00	0.00
1,800.00	8.25	197.58	1,794.57	-81.27	-25.75	85.25	0.00	0.00	0.00	0.00
8.25° Inclination										
1,900.00	8.25	197.58	1,893.53	-94.95	-30.09	99.60	0.00	0.00	0.00	0.00
2,000.00	8.25	197.58	1,992.50	-108.62	-34.42	113.95	0.00	0.00	0.00	0.00
2,100.00	8.25	197.58	2,091.46	-122.30	-38.76	128.30	0.00	0.00	0.00	0.00
2,200.00	8.25	197.58	2,190.43	-135.98	-43.09	142.65	0.00	0.00	0.00	0.00
2,300.00	8.25	197.58	2,289.39	-149.66	-47.43	157.00	0.00	0.00	0.00	0.00
2,400.00	8.25	197.58	2,388.36	-163.34	-51.76	171.35	0.00	0.00	0.00	0.00
2,500.00	8.25	197.58	2,487.32	-177.02	-56.10	185.69	0.00	0.00	0.00	0.00
2,600.00	8.25	197.58	2,586.29	-190.70	-60.44	200.04	0.00	0.00	0.00	0.00
2,651.24	8.25	197.58	2,637.00	-197.71	-62.66	207.40	0.00	0.00	0.00	0.00
Green River										
2,700.00	8.25	197.58	2,685.25	-204.38	-64.77	214.39	0.00	0.00	0.00	0.00
2,800.00	8.25	197.58	2,784.22	-218.05	-69.11	228.74	0.00	0.00	0.00	0.00
2,900.00	8.25	197.58	2,883.18	-231.73	-73.44	243.09	0.00	0.00	0.00	0.00
3,000.00	8.25	197.58	2,982.15	-245.41	-77.78	257.44	0.00	0.00	0.00	0.00
3,100.00	8.25	197.58	3,081.11	-259.09	-82.11	271.79	0.00	0.00	0.00	0.00
3,200.00	8.25	197.58	3,180.08	-272.77	-86.45	286.14	0.00	0.00	0.00	0.00
3,300.00	8.25	197.58	3,279.04	-286.45	-90.78	300.49	0.00	0.00	0.00	0.00
3,400.00	8.25	197.58	3,378.01	-300.13	-95.12	314.84	0.00	0.00	0.00	0.00
3,500.00	8.25	197.58	3,476.97	-313.81	-99.45	329.19	0.00	0.00	0.00	0.00
3,600.00	8.25	197.58	3,575.94	-327.48	-103.79	343.54	0.00	0.00	0.00	0.00
3,700.00	8.25	197.58	3,674.90	-341.16	-108.12	357.89	0.00	0.00	0.00	0.00
3,800.00	8.25	197.58	3,773.87	-354.84	-112.46	372.24	0.00	0.00	0.00	0.00
3,900.00	8.25	197.58	3,872.83	-368.52	-116.79	386.58	0.00	0.00	0.00	0.00
4,000.00	8.25	197.58	3,971.80	-382.20	-121.13	400.93	0.00	0.00	0.00	0.00
4,100.00	8.25	197.58	4,070.76	-395.88	-125.46	415.28	0.00	0.00	0.00	0.00
4,200.00	8.25	197.58	4,169.73	-409.56	-129.80	429.63	0.00	0.00	0.00	0.00
4,300.00	8.25	197.58	4,268.69	-423.24	-134.13	443.98	0.00	0.00	0.00	0.00
4,400.00	8.25	197.58	4,367.66	-436.91	-138.47	458.33	0.00	0.00	0.00	0.00
4,500.00	8.25	197.58	4,466.62	-450.59	-142.80	472.68	0.00	0.00	0.00	0.00
4,600.00	8.25	197.58	4,565.59	-464.27	-147.14	487.03	0.00	0.00	0.00	0.00
4,657.00	8.25	197.58	4,622.00	-472.07	-149.61	495.21	0.00	0.00	0.00	0.00
TGR3										
4,700.00	8.25	197.58	4,664.56	-477.95	-151.47	501.38	0.00	0.00	0.00	0.00
4,800.00	8.25	197.58	4,763.52	-491.63	-155.81	515.73	0.00	0.00	0.00	0.00

Plan Report for #5-16D-45 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
4,900.00	8.25	197.58	4,862.49	-505.31	-160.14	530.08	0.00	0.00	0.00	0.00
5,000.00	8.25	197.58	4,961.45	-518.99	-164.48	544.43	0.00	0.00	0.00	0.00
5,100.00	8.25	197.58	5,060.42	-532.67	-168.81	558.78	0.00	0.00	0.00	0.00
5,200.00	8.25	197.58	5,159.38	-546.34	-173.15	573.12	0.00	0.00	0.00	0.00
5,300.00	8.25	197.58	5,258.35	-560.02	-177.48	587.47	0.00	0.00	0.00	0.00
5,400.00	8.25	197.58	5,357.31	-573.70	-181.82	601.82	0.00	0.00	0.00	0.00
5,500.00	8.25	197.58	5,456.28	-587.38	-186.15	616.17	0.00	0.00	0.00	0.00
5,515.89	8.25	197.58	5,472.00	-589.55	-186.84	618.45	0.00	0.00	0.00	0.00
Douglas Creek										
5,600.00	8.25	197.58	5,555.24	-601.06	-190.49	630.52	0.00	0.00	0.00	0.00
5,700.00	8.25	197.58	5,654.21	-614.74	-194.82	644.87	0.00	0.00	0.00	0.00
5,800.00	8.25	197.58	5,753.17	-628.42	-199.16	659.22	0.00	0.00	0.00	0.00
5,806.64	8.25	197.58	5,759.74	-629.33	-199.44	660.17	0.00	0.00	0.00	0.00
Begin Drop at 5806.64 ft										
5,900.00	6.85	197.58	5,852.29	-641.02	-203.15	672.44	1.50	-1.50	0.00	180.00
5,950.03	6.10	197.58	5,902.00	-646.40	-204.85	678.08	1.50	-1.50	0.00	180.00
3Point Marker										
6,000.00	5.35	197.58	5,951.72	-651.15	-206.36	683.06	1.50	-1.50	0.00	-180.00
Drop Rate = 1.50°/100 ft										
6,100.00	3.85	197.58	6,051.40	-658.79	-208.78	691.08	1.50	-1.50	0.00	-180.00
6,200.00	2.35	197.58	6,151.25	-663.95	-210.42	696.49	1.50	-1.50	0.00	180.00
6,300.00	0.85	197.58	6,251.21	-666.61	-211.26	699.28	1.50	-1.50	0.00	180.00
6,356.64	0.00	0.00	6,307.84	-667.01	-211.39	699.70	1.50	-1.50	0.00	180.00
End Drop at 6356.64ft										
6,395.80	0.00	0.00	6,347.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
Black Shale - #5-16D-45 BTR_ZONE Tgt										
6,400.00	0.00	0.00	6,351.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,451.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,590.80	0.00	0.00	6,542.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
Castle Peak										
6,600.00	0.00	0.00	6,551.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,651.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,751.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,895.80	0.00	0.00	6,847.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
Uteland Butte										
6,900.00	0.00	0.00	6,851.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
6,945.80	0.00	0.00	6,897.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_1										
7,000.00	0.00	0.00	6,951.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,051.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,120.80	0.00	0.00	7,072.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
Wasatch										
7,200.00	0.00	0.00	7,151.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,245.80	0.00	0.00	7,197.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_2										
7,300.00	0.00	0.00	7,251.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,351.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,451.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,505.80	0.00	0.00	7,457.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_3										
7,600.00	0.00	0.00	7,551.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,651.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,751.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
7,820.80	0.00	0.00	7,772.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_4										
7,900.00	0.00	0.00	7,851.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	7,951.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,051.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00

HALLIBURTON

Duchesne County, UT (NAD 1927)

Plan Report for #5-16D-45 BTR - Plan A Rev 0 Proposal

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
8,120.80	0.00	0.00	8,072.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_4A										
8,200.00	0.00	0.00	8,151.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,245.80	0.00	0.00	8,197.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_5										
8,300.00	0.00	0.00	8,251.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,395.80	0.00	0.00	8,347.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_6										
8,400.00	0.00	0.00	8,351.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,451.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,551.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,651.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,745.80	0.00	0.00	8,697.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
CR_7										
8,800.00	0.00	0.00	8,751.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,851.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	8,951.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,051.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,151.20	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
9,245.80	0.00	0.00	9,197.00	-667.01	-211.39	699.70	0.00	0.00	0.00	0.00
#5-16D-45 BTR_BHL Tgt										

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,000.00	1,000.00	0.00	0.00	Kickoff at 1000.00 ft
1,200.00	1,199.84	-6.65	-2.11	Build Rate = 2.00°/100 ft
1,412.50	1,411.08	-28.26	-8.96	End Build at 1412.50 ft
1,800.00	1,794.57	-81.27	-25.75	8.25° Inclination
5,806.64	5,759.74	-629.33	-199.44	Begin Drop at 5806.64 ft
6,000.00	5,951.72	-651.15	-206.36	Drop Rate = 1.50°/100 ft
6,356.64	6,307.84	-667.01	-211.39	End Drop at 6356.64ft
9,245.80	9,197.00	-667.01	-211.39	Total Depth = 9245.80 ft

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
Target	#5-16D-45 BTR_BHL Tgt	197.58	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	9,245.80	Plan A Rev 0 Proposal	MWD

Plan Report for #5-16D-45 BTR - Plan A Rev 0 Proposal**Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,651.24	2,637.00	Green River		0.00	
4,657.00	4,622.00	TGR3		0.00	
5,515.89	5,472.00	Douglas Creek		0.00	
5,950.03	5,902.00	3Point Marker		0.00	
6,395.80	6,347.00	Black Shale		0.00	
6,590.80	6,542.00	Castle Peak		0.00	
6,895.80	6,847.00	Uteland Butte		0.00	
6,945.80	6,897.00	CR_1		0.00	
7,120.80	7,072.00	Wasatch		0.00	
7,245.80	7,197.00	CR_2		0.00	
7,505.80	7,457.00	CR_3		0.00	
7,820.80	7,772.00	CR_4		0.00	
8,120.80	8,072.00	CR_4A		0.00	
8,245.80	8,197.00	CR_5		0.00	
8,395.80	8,347.00	CR_6		0.00	
8,745.80	8,697.00	CR_7		0.00	
9,245.80	9,197.00	TD		0.00	

Targets associated with this wellbore

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
#5-16D-45 BTR_ZONE Tgt	6,347.00	-667.01	-211.39	Rectangle
#5-16D-45 BTR_SHL	0.00	0.00	0.00	Point
#5-16D-45 BTR_BHL Tgt	9,197.00	-667.01	-211.39	Point

North Reference Sheet for Sec. 16-T4S-R5W - #5-16D-45 BTR - Plan A Rev 0

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

Vertical Depths are relative to RKB 16' @ 6347.00ft (Patterson 506). Northing and Easting are relative to #5-16D-45 BTR

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

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991282

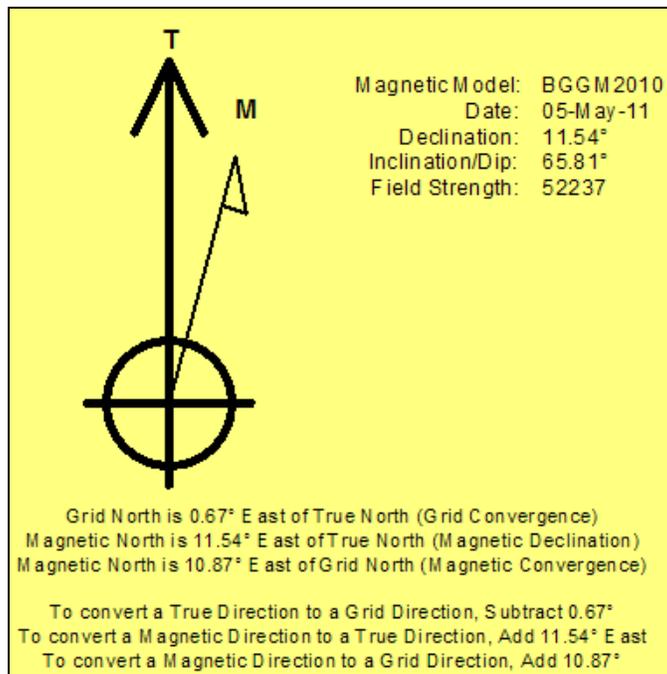
Grid Coordinates of Well: 659,193.95 ft N, 2,290,707.57 ft E

Geographical Coordinates of Well: 40° 08' 18.70" N, 110° 27' 36.62" W

Grid Convergence at Surface is: 0.67°

Based upon Minimum Curvature type calculations, at a Measured Depth of 9,245.80ft the Bottom Hole Displacement is 699.70ft in the Direction of 197.58° (True).

Magnetic Convergence at surface is: -10.87° (5 May 2011, , BGGM2010)



Project: Duchesne County, UT (NAD 1927)

Site: Sec. 16-T4S-R5W

Well: #5-16D-45 BTR

Wellbore: Plan A Rev 0

Plan: Plan A Rev 0 Proposal

Bill Barrett Corp

HALLIBURTON

Sperry Drilling

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
3	1412.50	8.25	197.58	1411.08	-28.26	-8.96	2.00	197.58	29.65	
4	5806.64	8.25	197.58	5759.74	-629.33	-199.44	0.00	0.00	660.17	
5	6356.64	0.00	0.00	6307.84	-667.01	-211.39	1.50	180.00	699.70	#5-16D-45 BTR_ZONE Tgt
6	6395.80	0.00	0.00	6347.00	-667.01	-211.39	0.00	0.00	699.70	#5-16D-45 BTR_BHL Tgt
7	9245.80	0.00	0.00	9197.00	-667.01	-211.39	0.00	0.00	699.70	

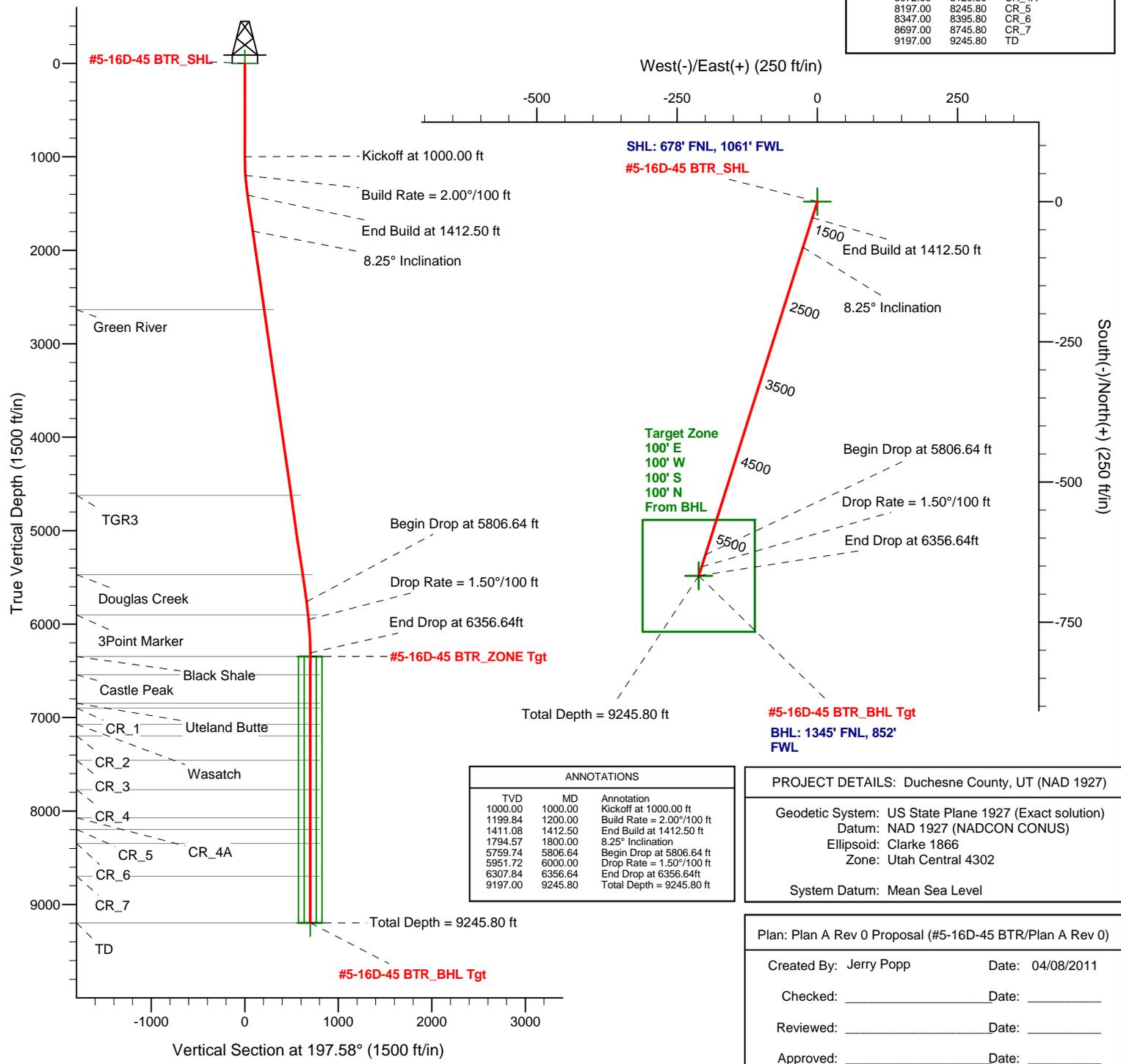
WELL DETAILS: #5-16D-45 BTR			
Ground Level:	6331.00	Longitude	110° 27' 36.619 W
Northing	659193.95	Easting	2290707.57
Latitude	40° 8' 18.701 N		

WELLBORE TARGET DETAILS				
Name	TVD	+N/-S	+E/-W	Shape
#5-16D-45 BTR_SHL	0.00	0.00	0.00	
#5-16D-45 BTR_ZONE Tgt	6347.00	-667.01	-211.39	Rectangle (Sides: L200.00 W200.00)
#5-16D-45 BTR_BHL Tgt	9197.00	-667.01	-211.39	Point

Azimuths to True North
Magnetic North: 11.54°

Magnetic Field
Strength: 52236.8snT
Dip Angle: 65.81°
Date: 5/5/2011
Model: BGGM2010

FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
2637.00	2651.24	Green River
4622.00	4657.00	TGR3
5472.00	5515.89	Douglas Creek
5902.00	5950.03	3Point Marker
6347.00	6395.80	Black Shale
6542.00	6590.80	Castle Peak
6847.00	6895.80	Uteland Butte
6897.00	6945.80	CR_1
7072.00	7120.80	Wasatch
7197.00	7245.80	CR_2
7457.00	7505.80	CR_3
7772.00	7820.80	CR_4
8072.00	8120.80	CR_4A
8197.00	8245.80	CR_5
8347.00	8395.80	CR_6
8697.00	8745.80	CR_7
9197.00	9245.80	TD



ANNOTATIONS		
TVD	MD	Annotation
1000.00	1000.00	Kickoff at 1000.00 ft
1199.84	1200.00	Build Rate = 2.00°/100 ft
1411.08	1412.50	End Build at 1412.50 ft
1794.57	1800.00	8.25° Inclination
5759.74	5806.64	Begin Drop at 5806.64 ft
5951.72	6000.00	Drop Rate = 1.50°/100 ft
6307.84	6356.64	End Drop at 6356.64 ft
9197.00	9245.80	Total Depth = 9245.80 ft

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

Plan: Plan A Rev 0 Proposal (#5-16D-45 BTR/Plan A Rev 0)	
Created By:	Jerry Popp
Date:	04/08/2011
Checked:	_____
Date:	_____
Reviewed:	_____
Date:	_____
Approved:	_____
Date:	_____

SURFACE USE PLAN

BILL BARRETT CORPORATION
5-16D-45 BTR Well Pad
Duchesne County, Utah

5-16D-45 BTR

NW NW, 678' FNL and 1061' FWL, Section 16, T4S-R5W (surface hole)
SW NW, 1345' FNL and 852' FWL, Section 16, T4S-R5W (bottom hole)

The onsite inspection for this pad occurred on January 10, 2012. This is a new pad with a total of one proposed well. Plat changes requested at the onsite are reflected within this APD and summarized below.

- a) Upgrade four proposed 18" culverts to 24" diameter;

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

1. Existing Roads:

- a. The proposed well site is located approximately 4.7 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized from Duchesne for 2.2 miles to the existing BBC maintained 1-9-45 BTR access road that would be utilized for 1.2 miles and provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permits are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

2. Planned Access Road:

- a. Approximately 1,474 feet of new access road trending southwest is planned from the approved 14-9D-45 BTR access road. The 14-9D-45 BTR access road continues 0.2 miles north to the approved 2-16D-45 BTR access road which proceeds northeast 0.8 miles and connects to the existing 1-9-45 BTR (see Topographic Map B). The access road crosses entirely Ute Tribe surface.
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed.

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

- i. Four 24" culverts are anticipated along the proposed access road (See Topographic Map B). No low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
 - j. No gates or cattle guards are anticipated at this time.
 - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
 - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
 - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:
 - i. water wells none
 - ii. injection wells none
 - iii. disposal wells none
 - iv. drilling wells none
 - v. temp shut-in wells none
 - vi. producing wells two
 - vii. abandoned wells none
4. Location of Production Facilities
- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
 - b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.

- c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.
- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 1,474 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending northeast to the approved 14-9D-45 BTR pipeline corridor. The 14-9D-45 BTR pipeline continues 0.2 miles north to the approved 2-16D-45 BTR pipeline which proceeds northeast 0.8 miles and connects to the existing 1-9-45 BTR. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All

Bill Barrett Corporation
 Surface Use Plan
 #5-16D-45 BTR Pad
 Duchesne County, UT

facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.

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

5. Location and Type of Water Supply:

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

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River
43-2505, Appln t37379	McKinnon Ranch Properties, LC	1.3 cfs	4/28/2011	Pumped from Sec, 17, T4SR6W	Water Canyon Lake
43-12415, Change A17215a	Peatross Ranch, LLC	1.89 cfs	09/2011	Dugout Pond	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

6. Source of Construction Material:

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

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the following state-approved disposal facilities:

Disposal Facilities
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971)

Bill Barrett Corporation
 Surface Use Plan
 #5-16D-45 BTR Pad
 Duchesne County, UT

Disposal Facilities
NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
 - m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.
8. Ancillary Facilities:
- a. Garbage containers and portable toilets would be located on the well pad.
 - b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
 - c. A surface powerline corridor 1,474 feet in length is proposed for installation by third-party installer within a 150 foot wide powerline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
9. Well Site Layout:
- a. The well would be properly identified in accordance with 43 CFR 3162.6.
 - b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
 - c. The pad and road designs are consistent with industry specifications.
 - d. The pad has been staked at its maximum size of 400 feet x 255 feet with an inboard reserve pit size of 235 feet x 70 feet x 8 feet deep. See section 12.d below for disturbance estimates.
 - e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

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

10. Plan for Restoration of the Surface:

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

Bill Barrett Corporation
Surface Use Plan
#5-16D-45 BTR Pad
Duchesne County, UT

surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour.

The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.

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

11. Surface and Mineral Ownership:

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

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 11-002 dated May 16, 2011 and report 10-241 dated November 23, 2010.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
 - No dogs or firearms within the Project Area.
 - No littering within the Project Area.
 - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
 - Campfires or uncontained fires of any kind would be prohibited.
 - Portable generators used in the Project Area would have spark arrestors.

Bill Barrett Corporation
 Surface Use Plan
 #5-16D-45 BTR Pad
 Duchesne County, UT

d. Disturbance estimates:

Approximate Acreage Disturbances			
Well Pad		3.151	acres
Access	1,474 feet	**	
Pipeline	1,474 feet	**	
Powerline	1,474 feet	5.075	acres
Total		8.226	acres

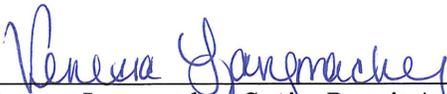
** Access and Pipeline Disturbance calculated within Powerline

OPERATOR CERTIFICATION

Certification:

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

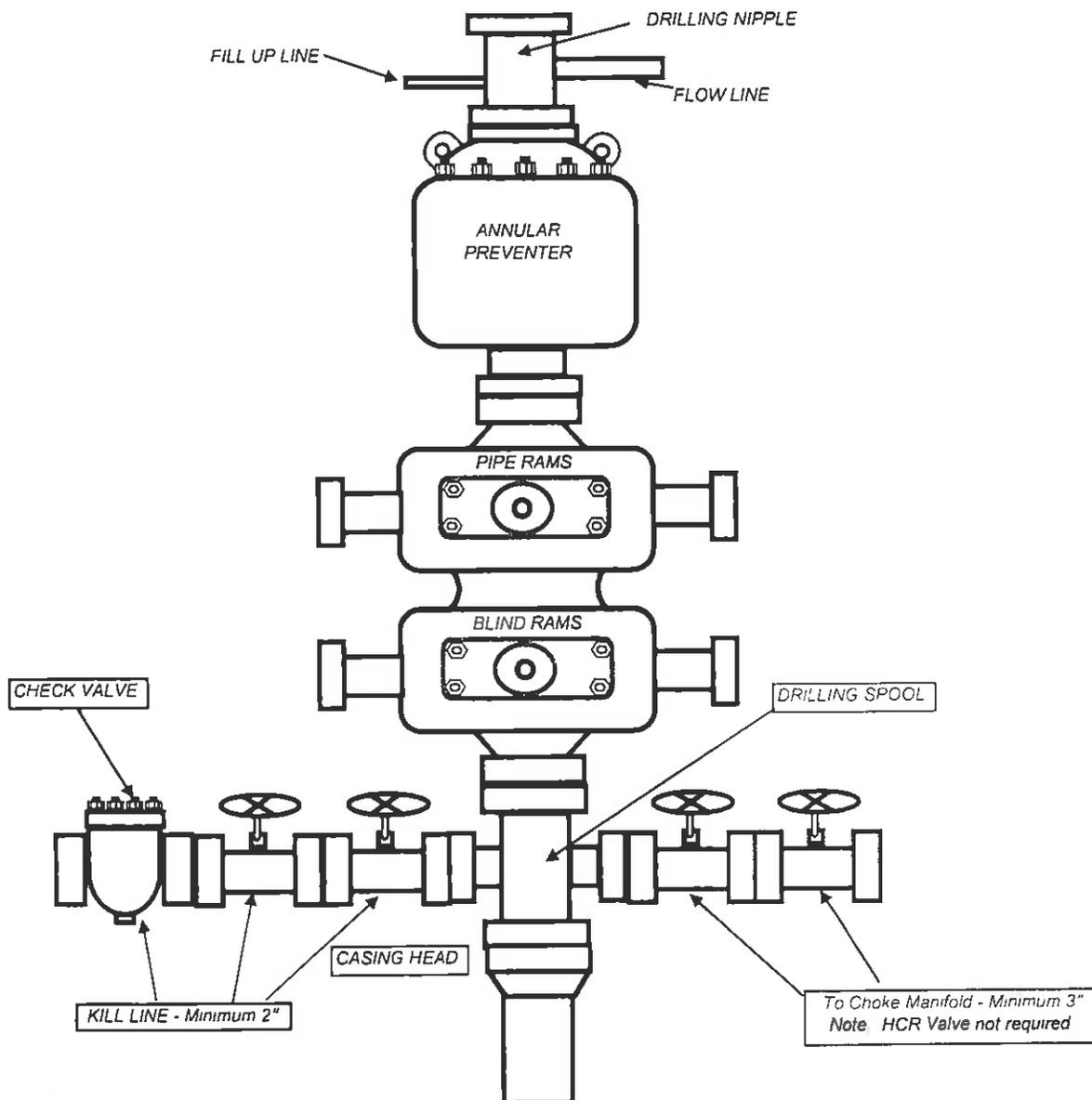
Executed this 9th day of February 2012
 Name: Venessa Langmacher
 Position Title: Senior Permit Analyst
 Address: 1099 18th Street, Suite 2300, Denver, CO 80202
 Telephone: 303-312-8172
 E-mail: vlangmacher@billbarrettcorp.com
 Field Representative: Kary Eldredge / Bill Barrett Corporation
 Address: 1820 W. Highway 40, Roosevelt, UT 84066
 Telephone: 435-725-3515 (office); 435-724-6789 (mobile)
 E-mail: keldredge@billbarrettcorp.com



 Venessa Langmacher, Senior Permit Analyst

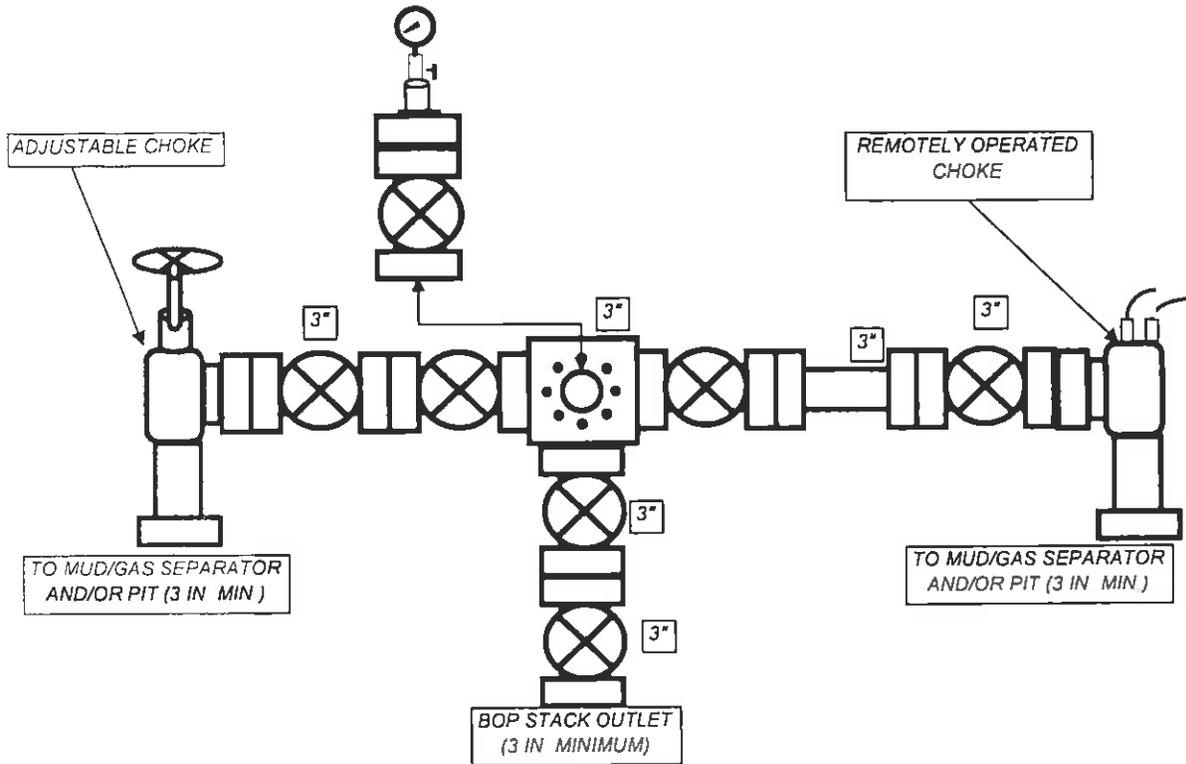
BILL BARRETT CORPORATION

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



BILL BARRETT CORPORATION

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





February 9, 2012

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

Re: Directional Drilling R649-3-11
Blacktail Ridge Area #5-16D-45 BTR Well
Surface: 678' FNL & 1,061' FWL, NWNW, 16-T4S-R5W, USM
Bottom Hole: 1,345' FNL & 852' FWL, SWNW, 16-T4S-R5W, USM
Duchesne County, Utah

Dear Ms. Mason,

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

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

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

Sincerely,

A handwritten signature in blue ink that reads 'David Watts' with a stylized flourish below it.

David Watts
Landman

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



February 9, 2012

Ms. Diana Mason – Petroleum Technician
STATE OF UTAH DIVISION OF OIL, GAS AND MINING
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: **Exception Location - #5-16D-45 BTR – Blacktail Ridge Area**
Surface Location: 678' FNL, 1,061' FWL, NWNW, Section 16-T4S-R5W
Bottom Location: 1,345' FNL, 852' FWL, SWNW, Section 16-T4S-R5W
Duchesne County, Utah

Dear Ms. Mason,

Bill Barrett Corporation (“BBC”) hereby submits an exception location letter in accordance with Oil & Gas Conservation Rules R649-3-3, requesting an exception well location, supported by the following information:

- The location is within our Blacktail Ridge Area.
- The exception location is due to topography requirements and to minimize surface disturbance.
 - BBC certifies that it is the working interest owner along with Ute Energy, LLC (who also consent to this exception location request), and together we own 100% of the working interest within 460 feet of the proposed well location.
 - Our rights are owned under an Exploration and Development Agreement with the Ute Indian Tribe and Ute Distribution Corporation which provides for the drilling of exploratory wells. This agreement provides that we consult with these owners regarding the drilling of this well.
 - BBC will be drilling the 5-16D-45 BTR well and will earn a BIA Tribal Lease covering 640.00 acres in Section 16, Township 4 South, Range 5 West.

Based on the information provided, BBC requests the Division grant this exception to the locating and siting requirements of R649-3-2. 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'.

David Watts
Landman

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

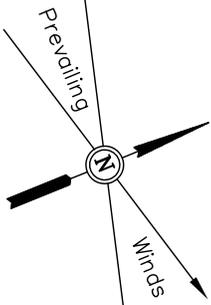
BILL BARRETT CORPORATION

FIGURE #1

LOCATION LAYOUT FOR

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL

Approx.
Toe of
Fill Slope

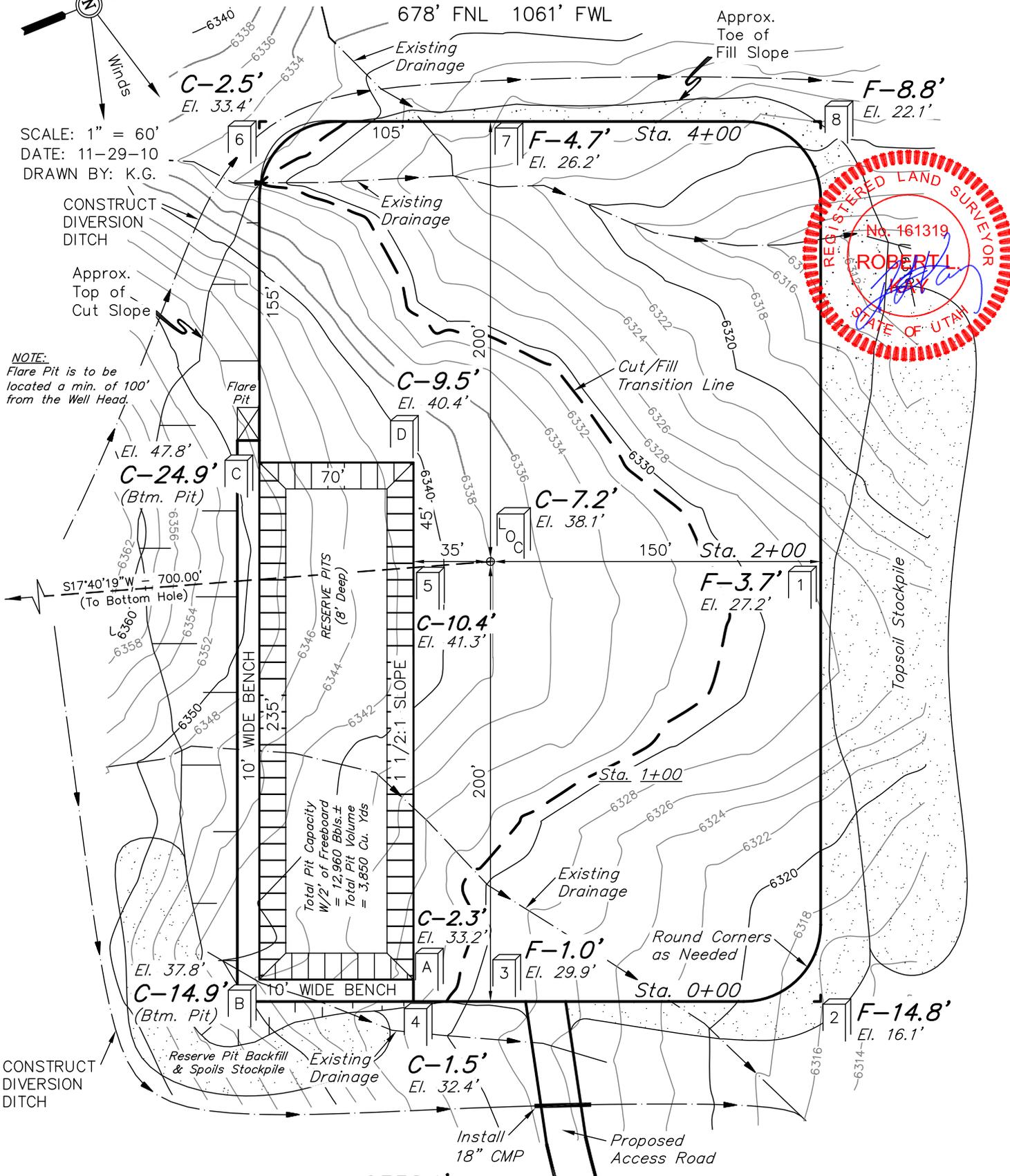
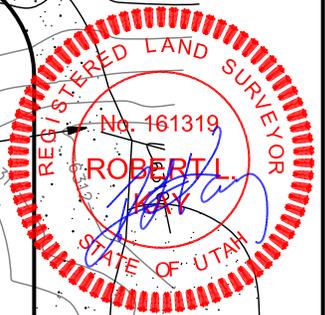


SCALE: 1" = 60'
DATE: 11-29-10
DRAWN BY: K.G.

CONSTRUCT
DIVERSION
DITCH

Approx.
Top of
Cut Slope

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



C-24.9'
(Btm. Pit)

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

C-14.9'
(Btm. Pit)

CONSTRUCT
DIVERSION
DITCH

Elev. Ungraded Ground At Loc. Stake = **6338.1'**
FINISHED GRADE ELEV. AT LOC. STAKE = **6330.9'**

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

RECEIVED: February 09, 2012

BILL BARRETT CORPORATION

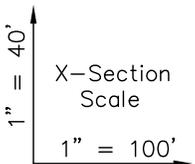
TYPICAL CROSS SECTIONS FOR

#5-16D-45 BTR

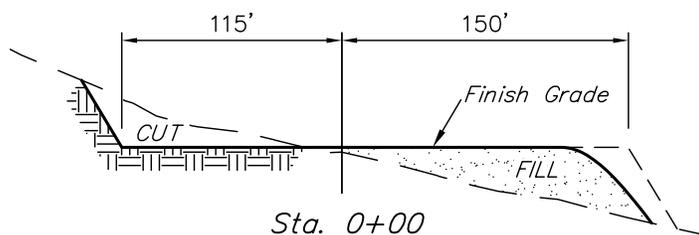
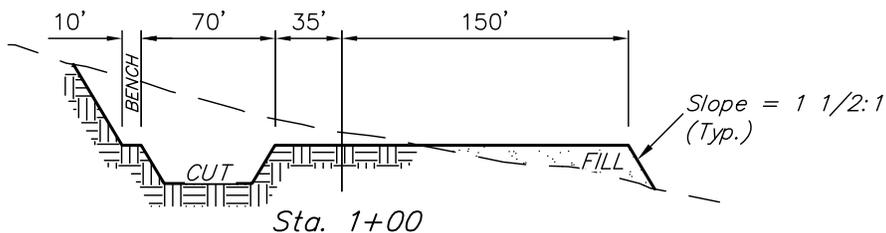
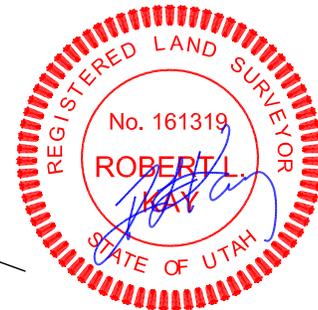
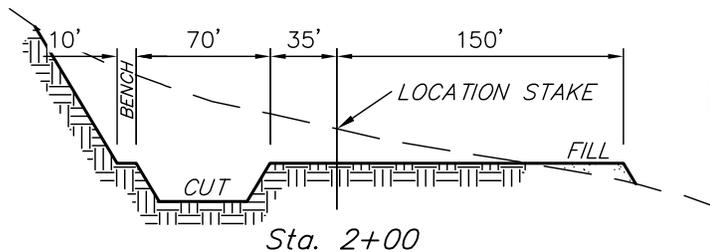
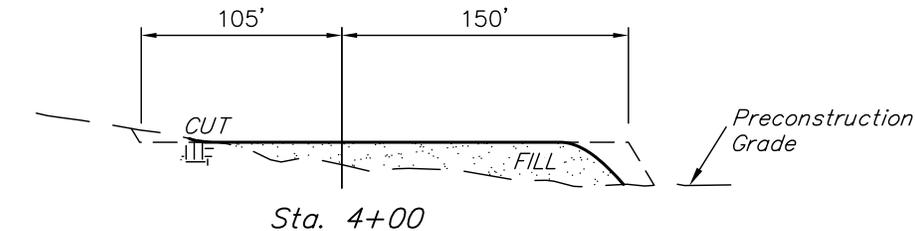
SECTION 16, T4S, R5W, U.S.B.&M.

678' FNL 1061' FWL

FIGURE #2



DATE: 11-29-10
DRAWN BY: K.G.



NOTE:

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

* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	4,900 Cu. Yds.
Remaining Location	=	19,030 Cu. Yds.
TOTAL CUT	=	23,930 CU.YDS.
FILL	=	17,100 CU.YDS.

EXCESS MATERIAL	=	6,830 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	6,830 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

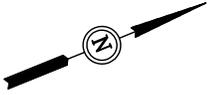
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

BILL BARRETT CORPORATION

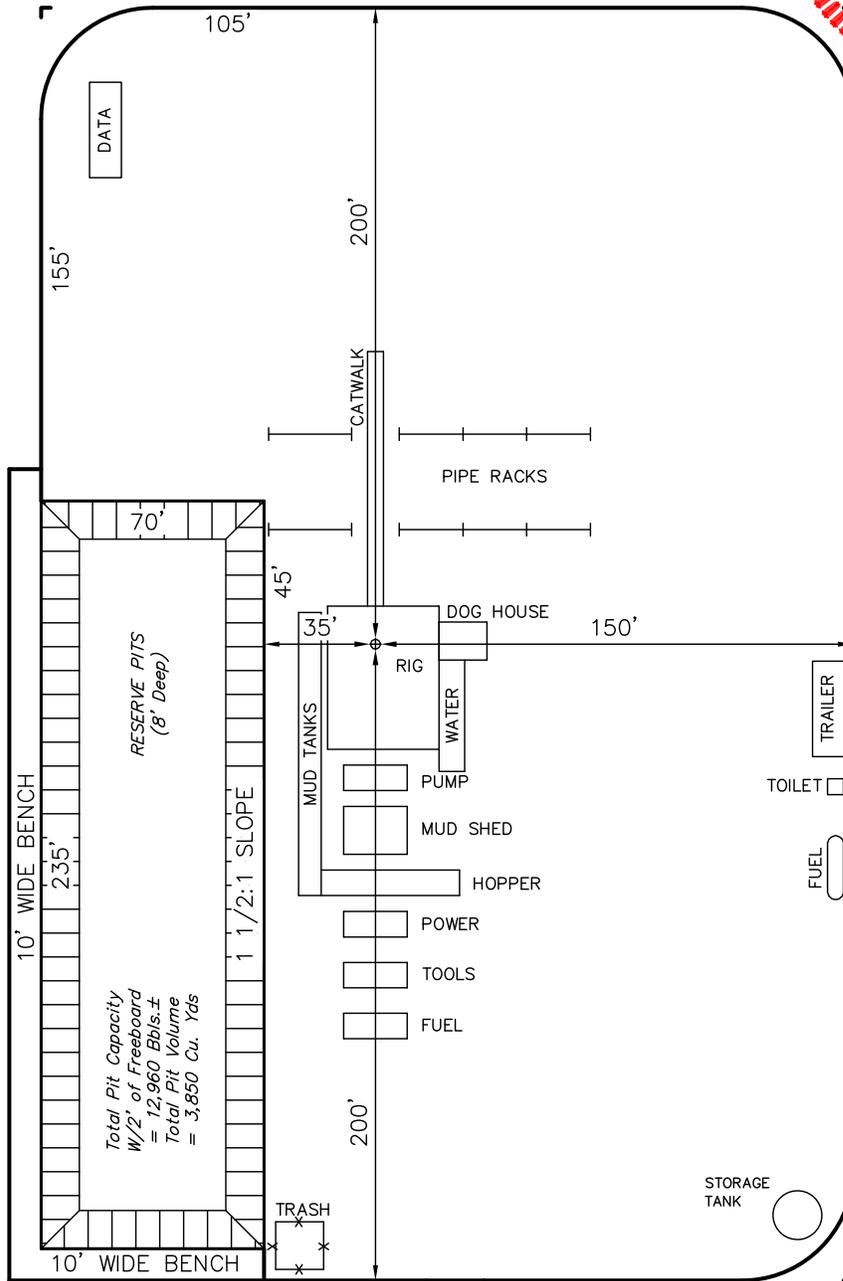
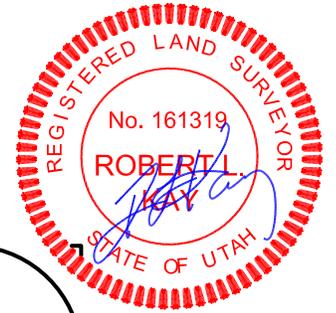
TYPICAL RIG LAYOUT FOR

#5-16D-45 BTR
SECTION 16, T4S, R5W, U.S.B.&M.
678' FNL 1061' FWL

FIGURE #3



SCALE: 1" = 60'
DATE: 11-29-10
DRAWN BY: K.G.



Proposed Access Road

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

RECEIVED: February 09, 2012

BILL BARRETT CORPORATION

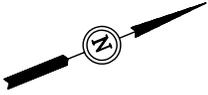
INTERIM RECLAMATION PLAN FOR

#5-16D-45 BTR

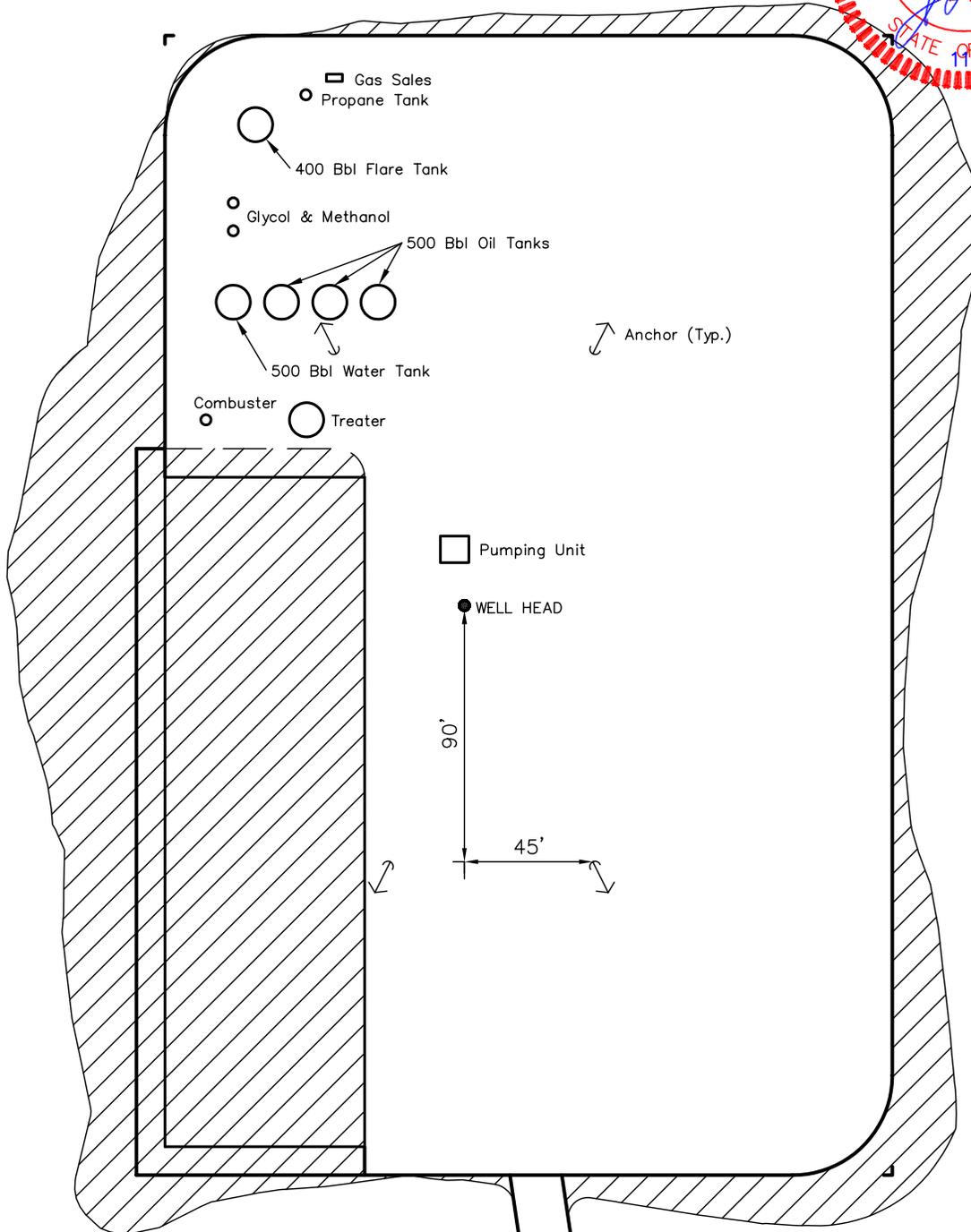
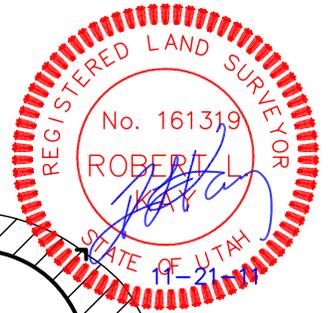
SECTION 16, T4S, R5W, U.S.B.&M.

678' FNL 1061' FWL

FIGURE #4



SCALE: 1" = 60'
DATE: 11-21-11
DRAWN BY: J.I.

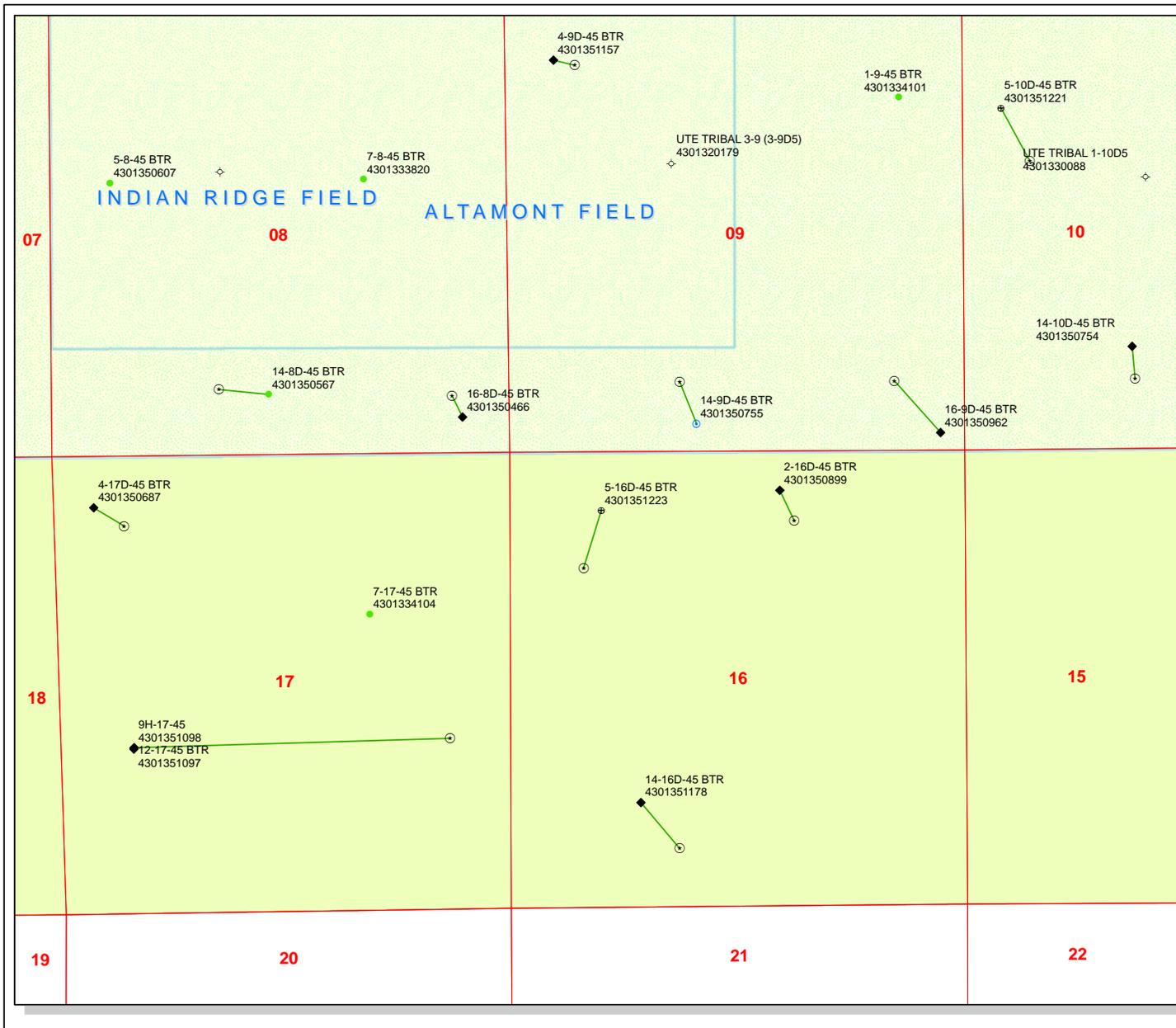


APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.914 ACRES

 INTERIM RECLAMATION AREA

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

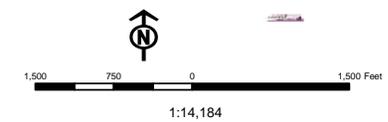
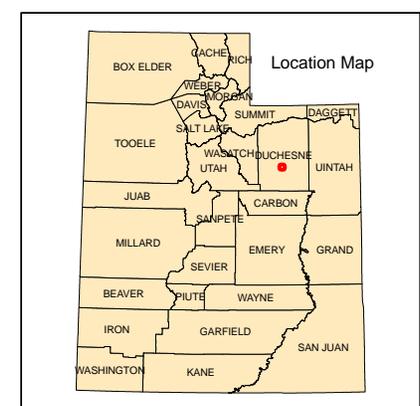
RECEIVED: February 09, 2012



API Number: 4301351223
Well Name: 5-16D-45 BTR
Township T0.4 . Range R0.5 . Section 16
Meridian: UBM
Operator: BILL BARRETT CORP

Map Prepared:
 Map Produced by Diana Mason

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



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/9/2012

API NO. ASSIGNED: 43013512230000

WELL NAME: 5-16D-45 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWNW 16 040S 050W

Permit Tech Review:

SURFACE: 0678 FNL 1061 FWL

Engineering Review:

BOTTOM: 1345 FNL 0852 FWL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.13844

LONGITUDE: -110.46088

UTM SURF EASTINGS: 545926.00

NORTHINGS: 4443262.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005608

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: 5-16D-45 BTR
API Well Number: 43013512230000
Lease Number: 2OG0005608
Surface Owner: INDIAN
Approval Date: 2/14/2012

Issued to:

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

Authority:

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

Duration:

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

General:

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

Conditions of Approval:

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

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.

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

API Well No: 43013512230000

website

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

Reporting Requirements:

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

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

Approved By:

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

For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5.LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah	
7.UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: 5-16D-45 BTR	
9. API NUMBER: 43013512230000	
9. FIELD and POOL or WILDCAT: UNDESIGNATED	
COUNTY: DUCHESNE	
STATE: UTAH	

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	
2. NAME OF OPERATOR: BILL BARRETT CORP	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/1/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC requests a one year extension for the subject APD.

Approved by the Utah Division of Oil, Gas and Mining

Date: February 19, 2013

By:

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 1/21/2013	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013512230000

API: 43013512230000

Well Name: 5-16D-45 BTR

Location: 0678 FNL 1061 FWL QTR NWNW SEC 16 TWNP 040S RNG 050W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 2/14/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Venessa Langmacher

Date: 1/21/2013

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5-16D-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512230000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: UNDESIGNATED COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 3/15/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input 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.

BBC requests to revise the 10-3/4" surface casing approved for the subject well to 9-5/8" set at 1,800'. Please see revised drilling program attached.

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

Date: March 05, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 3/1/2013	

BILL BARRETT CORPORATION
DRILLING PLAN

5-16D-45 BTR

NW NW, 678' FNL and 1061' FWL, Section 16, T4S-R5W, USB&M (surface hole)

SW NW, 1345' FNL and 852' FWL, Section 16, T4S-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>
Lower Green River*	4,657'	4,622'
Douglas Creek	5,515'	5,472'
Black Shale	6,395'	6,347'
Castle Peak	6,590'	6,542'
Uteland Butte	6,895'	6,847'
Wasatch*	7,120'	7,072'
TD	9,246'	9,197'

*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 – 1,800'	No pressure control required
1,800' – 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	1,800'	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
 5-16D-45 BTR
 Duchesne County, Utah

5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 240 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /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 ³ /sx), calculated hole volume with 75% excess. TOC @ 1,300'
5 1/2" Production Casing	Lead: 760 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 1,300' Tail: 900 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 5,895'

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' – 1,800'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,800' – 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 4638 psi* and maximum anticipated surface pressure equals approximately 2615 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
5-16D-45 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: March 2013
Spud: March 2013
Duration: 15 days drilling time
45 days completion time



Bill Barrett Corporation

LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: 5-16D-45 BTR

Surface Hole Data:

Total Depth:	1,800'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

Calculated Data:

Lead Volume:	712.5	ft ³
Lead Fill:	1,300'	
Tail Volume:	274.0	ft ³
Tail Fill:	500'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	240
--------------	-----

Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	1,300'	

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

Production Hole Data:

Total Depth:	9,246'
Top of Cement:	1,300'
Top of Tail:	5,895'
OD of Hole:	8.750"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1741.0	ft ³
Lead Fill:	4,595'	
Tail Volume:	1269.8	ft ³
Tail Fill:	3,351'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	760
# SK's Tail:	900

5-16D-45 BTR Proposed Cementing Program
--

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (1300' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,300'
	Volume: 126.89 bbl
	Proposed Sacks: 240 sks
Tail Cement - (TD - 1300')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,300'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	Proposed Sacks: 210 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (5895' - 1300')	
Tuned Light TM System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,300'
	Calculated Fill: 4,595'
	Volume: 310.06 bbl
	Proposed Sacks: 760 sks
Tail Cement - (9246' - 5895')	
Econocem TM System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 5,895'
	Calculated Fill: 3,351'
	Volume: 226.14 bbl
	Proposed Sacks: 900 sks

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5-16D-45 BTR	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512230000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: UNDESIGNATED	
		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 4/1/2013 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
This well was spud on 4/01/2013 at 12:30 pm by Triple A Drilling, Rig #TA 4037, Rig Type Soilmecc SR/30. Continuous drilling is planned to commence on 4/11/2013.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 03, 2013			
NAME (PLEASE PRINT) Venessa Langmacher		PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A		DATE 4/2/2013	

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# H&P 319
Submitted By Glenn Randel Phone Number 970-623-7078
Well Name/Number 5-16D-45 BTR
Qtr/Qtr NW/NW Section 16 Township 4S Range 5W
Lease Serial Number 2OG0005608
API Number 43-013-51223

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

Date/Time _____ AM PM

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

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

Date/Time 4/17/13 02:00 AM PM

BOPE

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

RECEIVED

APR 16 2013

DIV. OF OIL, GAS & MINING

Date/Time 4/18/13 03:30 AM PM

Remarks _____

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# HP 319
Submitted By JET LORENZEN Phone Number 970-623-7078
Well Name/Number #5-16D-45 BTR
Qtr/Qtr NW/NW Section 16 Township 4S Range 5W
Lease Serial Number 2OG0005608
API Number 43-013-51223

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

Date/Time _____ AM PM

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

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

Date/Time 04/21/2013 16:00 AM PM

BOPE

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

RECEIVED

APR 19 2013

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 2OG0005608
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: 5-16D-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013512230000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <p style="text-align: center; font-size: 1.2em;">Attached is the April 2013 Drilling Activity for this well.</p> <div style="text-align: right; margin-top: 20px;"> <p>Accepted by the Utah Division of Oil, Gas and Mining</p> <p>FOR RECORD ONLY</p> <p>May 10, 2013</p> </div>		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 5/3/2013	

**5-16D-45 BTR 4/12/2013 09:00 - 4/13/2013 06:00**

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:00	10.00	19:00	1	RIGUP & TEARDOWN	RIG DOWN, PREP TO MOVE. 75% RIGGED DOWN, 0% MOVED, 0% RIGGED UP. MAST DOWN @ 17:00 HRS.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT TRUCKS/CRANES DUE EARLY.

5-16D-45 BTR 4/13/2013 06:00 - 4/14/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	1	RIGUP & TEARDOWN	MOVE & RIG UP. 95% MOVED, 60% RIGGED UP.
20:00	10.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT.

5-16D-45 BTR 4/14/2013 06:00 - 4/15/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	19.75	01:45	1	RIGUP & TEARDOWN	MOVE CAMP & DRILLING TUBULARS. CONTINUE TO RIG UP. MAST UP @ 10:30 HRS. CRANES & MOST TRUCKS RELEASED @ 11:00 HRS. WELD ON 16" RISER W/ROTATING HEAD.
01:45	3.75	05:30	1	RIGUP & TEARDOWN	PICK UP & MAKE UP 12 1/4 BHA. PROBLEM GETTING ENOUGH TORQUE FROM ST-80. RIG UP MANUAL TONGS.
05:30	0.50	06:00	2	DRILL ACTUAL	TAG UP @ 104'. ROTATE DRILL 12 1/4 HOLE 104-131'. ROP 54 FPH. PUMP 600 GPM FOR FIRST 25'.

5-16D-45 BTR 4/15/2013 06:00 - 4/16/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.75	10:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 131-332', MAKING DC CONNECTIONS. ROP 48 FPH.
10:45	0.25	11:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 332-340'. ROP 32 FPH.
11:00	0.75	11:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 340-416' MAKING HWDP CONNS. ROP 101.3 FPH.
11:45	0.25	12:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 416-424'. ROP 32 FPH.
12:00	1.25	13:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 424-507' MAKING HWDP CONNS. ROP 66.4 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 507-515'. ROP 32 FPH.
13:30	2.50	16:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 515-690' MAKING HWDP CONNS. ROP 70 FPH.
16:00	0.50	16:30	14	NIPPLE UP B.O.P	INSTALL ROTATING RUBBER.
16:30	0.50	17:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:00	1.25	18:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 690-784'. ROP 75.2 FPH.
18:15	0.25	18:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 784-792'. ROP 32 FPH.
18:30	11.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 792-1488'. ROP 60.5 FPH. BGG INCREASED AT ~1130'.

5-16D-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1488-1562'. ROP 59.2 FPH.
07:15	0.50	07:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE & REPLACE O-RING IN MUD LINE.
07:45	7.50	15:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1562-2010'. ROP 59.7 FPH.
15:15	0.50	15:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2010-2020'. ROP 20 FPH.
15:45	1.50	17:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2020-2104'. ROP 56 FPH. #2 PUMP DOWN 16:45 TO 17:20 HRS.
17:15	0.50	17:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2104-2114'. ROP 20 FPH.
17:45	1.25	19:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2114-2199'. ROP 68 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
19:00	0.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2199-2205'. ROP 24 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2205-2221'. ROP 64 FPH.
19:30	0.50	20:00	5	COND MUD & CIRC	PUMP 70 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. PUMP SLUG.
20:00	2.00	22:00	6	TRIPS	HELD PJSM & POH TO TOP OF DC's. RIH, PRECAUTIONARY WASH LAST STAND TO BOTTOM.
22:00	0.50	22:30	5	COND MUD & CIRC	PUMP 70 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHECK & PUMP SLUG.
22:30	3.25	01:45	6	TRIPS	BLOW DOWN TOP DRIVE & MUD LINES & POH. LAY DOWN 8" SPERRY TOOLS.
01:45	1.25	03:00	12	RUN CASING & CEMENT	CLEAN UP RIG FLOOR & HOLD PJSM. RIG UP CASING TOOLS.
03:00	3.00	06:00	12	RUN CASING & CEMENT	MAKE UP/THREADLOCK 1 JT SHOE TRACK. RUN 20 JTS 9 5/8, 36#, J55, STC, R3 CASING TO 870'. FILL CASING EVERY 5 JTS.

5-16D-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	12	RUN CASING & CEMENT	RUN CASING. FC(1.40), 1 SHOE JT (43.95), FC (.90), 50 JTS 9 5/8" 36# J55 CASING (2174.02). LANDED @ 2216' MADE UP W/ BESTOLIFE DOPE TO 3940 FT/LB.
07:30	3.75	11:15	21	OPEN	CIRC WO HES TO RIG UP SUPPOST TO ON LOC @ 8:00 LAST TRUCK ON LOC 10:30 RIG UP AT 11:00.
11:15	2.00	13:15	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 20 BLS H2O, 40 BLS SUPER FLUSH, 20 BLS H2O 34 SKS HLC PREMIUM 192 BL 11# 3.16 YEILD W/ 5 LB SILCALITE .125 LB POLY-E-FLAKE, .25 LB KWIK SEAL. TAILED W/ 240 SKS PREMIUM PLUS TYPE III 57 BLS 14.8# 1.33 YEILD W/ .125 LB POLY-E-FLAKE. DISPLACED W/ 165 BLS H2O. BUMP PLUG FLOATS HELD. 100 BLS OF CEMENT TO SURFACE.
13:15	0.50	13:45	15	TEST B.O.P	TEST CASING TO 1500# F/ 30 MINS
13:45	3.00	16:45	13	WAIT ON CEMENT	WOC
16:45	2.25	19:00	14	NIPPLE UP B.O.P	CUT OFF AND WEL ON WELL HEAD
19:00	1.00	20:00	14	NIPPLE UP B.O.P	NIPPLE UP BOP
20:00	3.25	23:15	15	TEST B.O.P	TEST BOP. A-1 TESTERS. TESR ALL RAMS AND VALVES TO 5000# F/ 10 MINS. TEST ANNULAR TO 2500# F/ 10 MINS.
23:15	0.50	23:45	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING
23:45	1.00	00:45	20	DIRECTIONAL WORK	PICK UP BHA, OREINTATE MWD.
00:45	1.00	01:45	6	TRIPS	TIH
01:45	1.25	03:00	21	OPEN	DRILLOUT SHOE TRACK
03:00	0.75	03:45	22	OPEN	EMW 230 PSI W/ 8.5 MUD = 10.5 PPG
03:45	2.25	06:00	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 2221' TO 2743'(522' IN 232 FPH), SLIDE: 30' IN .25 HR = 120 FPH, ROTATE: 492' IN 2 HR = 246 FPH. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB.

5-16D-45 BTR 4/18/2013 06:00 - 4/19/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.25	17:15	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 2743' TO 4722' (1979' IN 11.25 HR 175.9 FPH) SLIDE: 113' IN 1.75 HR = 64.6 FPH. ROTATE: 1866' IN 9.5 HR = 196.4 FPH. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB. STARTED LOSING RETURNS @ 3969' MIXING LCM ON THE FLY LOSING 70 BLS/HR.
17:15	0.50	17:45	7	LUBRICATE RIG	RIG SERVICE
17:45	12.25	06:00	2	DRILL ACTUAL	DRLG F/ 4722' TO 6230' (1508' IN 12.25 HR = 123.1 FPH) SLIDE: 96' IN 3.75 HR = 25.6 FPH. ROTATE: 1412' IN 8.5 HR = 166.1 FPH. STILL LOSING MUD @ 60 BLS/HR.

5-16D-45 BTR 4/19/2013 06:00 - 4/20/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.25	16:15	2	DRILL ACTUAL	DRLG F/ 6230' TO 7267' (1037' IN 10.25 HR = 101.2 FPH) SLIDE: 154' IN 5 HR =30.8 FPH, ROTATE: 883' IN 5.25 HR = 168.2 FPH. LOSING 40 BLS / HR OF MUD. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB.
16:15	0.50	16:45	7	LUBRICATE RIG	RIG SERVICE
16:45	12.50	05:15	2	DRILL ACTUAL	DRLG F/ 7267' TO 8455' (1188' IN 12.5 HR = 95 FPH) SLIDE: 51' IN 1.75 HR = 29.1 FPH, ROTATE: 1137' IN 10.75 HR = 105.8 FPH. BY PASS SHAKERS 24 % LCM. 85.25 TOTAL ROTING HR.
05:15	0.75	06:00	5	COND MUD & CIRC	CIRC COND F/ LOGS

5-16D-45 BTR 4/20/2013 06:00 - 4/21/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	COMPLETION	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.75	09:45	6	TRIPS	SHORT TRIP TO 3500'
09:45	0.75	10:30	5	COND MUD & CIRC	CIRC. COND. F/ LOGS
10:30	4.75	15:15	6	TRIPS	TOOH, L/D DIRCTIONAL TOOLS
15:15	6.50	21:45	11	WIRELINE LOGS	HSM, RIG HES AND LOG RUN QUADE COMBO F/ 8272' TO SURFACE CASING
21:45	0.50	22:15	14	NIPPLE UP B.O.P	PULLWEAR BUSHING
22:15	3.75	02:00	6	TRIPS	TIH
02:00	0.75	02:45	5	COND MUD & CIRC	CIRC. COND F/ CASING
02:45	3.25	06:00	6	TRIPS	LDDP

5-16D-45 BTR 4/21/2013 06:00 - 4/22/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	COMPLETION	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	LDDP AND DCS
09:00	7.25	16:15	12	RUN CASING & CEMENT	HSM, RIG WEATHERFORD AND RUN CASING. FS (1.00), 2 SHOE JTS (84.94), FC (1.00), 27 JTS 51/2" 17# P110 LT&C CASING (1146.58), MARKER JT (22.06), 20 JTS CASING (843.38), MAKER JT (22.08), 146 JTS CASING (6330.76). LANDED @ 8448' MADE UP W/ BESTOLIFE DOPE TO 4620 FT/LB.
16:15	1.00	17:15	5	COND MUD & CIRC	CIRC. COND F/ CEMENT @ 10.5 BL/MIN W/ FULL RETURNS.
17:15	3.25	20:30	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 5 BLS H2O, 40 BLS SUPERFLUSH, 10 BLS H2O, 705 SKS TUNED LIGHT 291 BLS 11# 2.32 YEILD. TAILED W/ 620 SKS ECONOCHEM 158 BLS 13.5# 1.45 YEILD W/ 1 LB GRALULITE, .125 LB POLY-E-FLAKE. DISPLACED W/ 194 BLS H2O W/ CLAYWEB, AND ALICIDE. BUMP PLUG FLOATS HELD. WITH 55 BLS LEFT IN DIPLACEMENT LOST RETURNS.
20:30	9.50	06:00	14	NIPPLE UP B.O.P	NIPPLE DN SET SLIPS W/ 175K. CLEAN MUD TANKS. RIG RELEASE 4/22/13 06:00 HR AND DEMOB COMENCED.

5-16D-45 BTR 4/22/2013 06:00 - 4/23/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	COMPLETION	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	RIG DEMOB, LOAD OUT MOTORS, VFD. TAKE DERRICK, DRAWTOOL AND DOG HOUSE OFF FLOOR. LOAD OUT CENTER STEEL. LOAD OUT RENTAL EQUIPMENT, PREMIX TANK, BAR HOPPERS, 400 BLS TANKS, FLARE BOX, FLARE LINES AND CETRAFUGE. START DP INSPECTION.

5-16D-45 BTR 4/23/2013 06:00 - 4/24/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	COMPLETION	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00			UNSTACK SUBS, POWER WASH ON RIG WILL LOAD OUT MUD TANKS AND AND LOWER SUB TODAY. INPECT 100 MORE JT OF DP.

5-16D-45 BTR 4/24/2013 06:00 - 4/25/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	COMPLETION	8,455.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	1	RIGUP & TEARDOWN	POWER WASH, LOAD MUD TANKS, SUBS AND CHOKE HOUSA. DRAWWORKS AN DERICK LEFT. INPECTING DP.

5-16D-45 BTR 4/25/2013 06:00 - 4/26/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00			LOAD OUT THE REST OF RIG. FINISH DP INSPECTION 416 JTS PREMIUM, 26 JTS CLASS 2, 2 JTS CLASS 3. 431 JTS REFACED, 14 JTS NEED RECUT. 7 JTS DAMAGED BY SLIPS AND ST-80. END OF DEMOBE.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5-16D-45 BTR	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512230000	
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/29/2013 <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 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 and gas sales on 5/29/2013.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 29, 2013			
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst	
SIGNATURE N/A	DATE 5/29/2013		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 20G0005608
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintah
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 5-16D-45 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013512230000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2013	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached is the May 2013 Drilling Activity for this well.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 06, 2013		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 6/5/2013	

**5-16D-45 BTR 5/1/2013 06:00 - 5/2/2013 06:00**

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.	
08:00	1.00	09:00	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.	
09:00	4.00	13:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 8,305', Drilling Report Shows FC At 8,361', 56' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 8,305', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 04-20-2013. Run Repeat Section From 8,305 - 8,100', Log Up Hole. Showed Good Bond From TD To 7,050, 7,050 - 6,950' Fair, 6,950 - 5,400 Good, 5,400 - 3,600 Fair, 3,600 - 3,168 Bad. TOC 3,168'. Found Short Joints At 7,192 - 7,215' And 6,327 - 6,349'. Ran With Pressure. Pooh, RD Equipment, MOL.	
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured	

5-16D-45 BTR 5/18/2013 06:00 - 5/19/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	SET FB TANKS. SET AND PLUMB IN FB EQUIP.	

5-16D-45 BTR 5/20/2013 06:00 - 5/21/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	CHECK PRESSURE. ND 7" NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. MOVE IN FRAC LINE. SET BACKSIDE MANIFLOD. SET HANDRAILS. START FILLING FRAC LINE.	

5-16D-45 BTR 5/21/2013 06:00 - 5/22/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	FINISH SETTING FRAC LINE. FILLING FRAC LINE. RU HANDRAILS AND BACKSIDE MANIFOLD.	

5-16D-45 BTR 5/23/2013 06:00 - 5/24/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Heat KCL Tanks. HES Set Manifold And Mover.	

5-16D-45 BTR 5/24/2013 06:00 - 5/25/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.	
07:00	4.25	11:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Perforate Stage 1 CR-4A/CR-4 Zone, 7,906 - 8,141'. 36 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
11:15	3.75	15:00	SRIG	Rig Up/Down	HES Rigging Up	
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.	

**5-16D-45 BTR 5/25/2013 06:00 - 5/26/2013 06:00**

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.	
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.	
06:00	0.00	06:00	FRAC	Frac. Job	<p>Frac Stage 1. Fluid System: Hybor G 16 Open Well, 80 Psi. ICP. BrokeDown At 9.6 Bpm And 3,370 Psi.. Pump 3900 Gals. 15% HCL And 72 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.5 Bpm And 4,986 Psi., Get ISIP, 2,552 Psi.. 0.76 Psi./Ft. F.G.. 36/36 Holes. Con't With SlickWater Pad, 45,922 Gals.. Stage Into Hybor Pad, 72.2 Bpm At 4,452 Psi.. On Perfs, 72.1 Bpm At 4,638 Psi., 15,657 Gals. Stage Into 2.0# 20/40 White Prop, 71.9 Bpm At 4,612 Psi.. On Perfs, 70.7 Bpm At 4,113 Psi., 8,710 Gals. Stage Into 3.0# 20/40 White Prop, 71.7 Bpm At 4,080 Psi.. On Perfs, 72.1 Bpm At 3,827 Psi., 18,051 Gals. Stage Into 3.5# 20/40 White Prop, 72.2 Bpm At 3,709 Psi.. On Perfs, 72.3 Bpm At 3,615 Psi., 9,823 Gals. Stage Into 4.0# 20/40 White Prop, 72.2 Bpm At 3,605 Psi.. On Perfs, 72.2 Bpm At 3,517 Psi., 10,899 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,718 Psi.. 0.78 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,400# Total Clean - 129,542 Gals.. 3,084 Bbls.. Produced Water - 64,625 Gals.. 2% KCL - 63,140 Gals.. BWTR - 3,231 Bbls. Max. Rate - 72.5 Bpm Avg. Rate - 71.6 Bpm Max. Psi. - 4,642 Psi. Avg. Psi. - 3,821 Psi.</p>	
06:00	0.34	06:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.	
06:20	1.17	07:30	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,885'. 2,350 Psi.. Perforate Stage 2 CR-4/CR-3 Zone, 7,603 - 7,865'. 45 Holes. 900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>	
07:30	0.08	07:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.	



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:35	1.08	08:40	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16 Open Well, 200 Psi. ICP. BrokeDown At 9.9 Bpm And 3,067 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.9 Bpm And 4,770 Psi., Get ISIP, 2,284 Psi.. 0.73 Psi./Ft. F.G.. 34/45 Holes. Con't With SlickWater Pad, 48,271 Gals.. Stage Into Hybor Pad, 71.9 Bpm At 4,066 Psi.. On Perfs, 72.1 Bpm At 4,224 Psi., 12,170 Gals. Stage Into 2.0# 20/40 White Prop, 72.2 Bpm At 4,213 Psi.. On Perfs, 72.1 Bpm At 3,835 Psi., 8,710 Gals. Stage Into 3.0# 20/40 White Prop, 72.2 Bpm At 3,802 Psi.. On Perfs, 72.2 Bpm At 3,397 Psi., 22,345 Gals. Stage Into 3.5# 20/40 White Prop, 72.1 Bpm At 3,362 Psi.. On Perfs, 72.2 Bpm At 3,337 Psi., 9,512 Gals. Stage Into 4.0# 20/40 White Prop, 72.2 Bpm At 3,333 Psi.. On Perfs, 72.3 Bpm At 3,305 Psi., 10,150 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,351 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,800# Total Clean - 131,287 Gals.. 3,126 Bbls.. Produced Water - 66,492 Gals.. 2% KCL - 62,887 Gals.. BWTR - 3,281 Bbls. Max. Rate - 72.5 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 4,239 Psi. Avg. Psi. - 3,481 Psi.</p>
08:40	0.25	08:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:55	1.08	10:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,590'. 2,150 Psi.. Perforate Stage 3 CR-3/CR-2 Zone, 7,353 - 7,576'. 42 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
10:00	0.09	10:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:05	1.08	11:10	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16 Open Well, 1,900 Psi. ICP. BrokeDown At 9.9 Bpm And 3,377 Psi.. Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.7 Bpm And 3,895 Psi., Get ISIP, 2,166 Psi.. 0.73 Psi./Ft. F.G.. 39/42 Holes. Con't With SlickWater Pad, 51,539 Gals.. Stage Into Hybor Pad, 72.0 Bpm At 3,706 Psi.. On Perfs, 72.1 Bpm At 3,960 Psi., 12,958 Gals. Stage Into 2.0# 20/40 White Prop, 72.1 Bpm At 3,992 Psi.. On Perfs, 72.1 Bpm At 3,630 Psi., 8,406 Gals. Stage Into 3.0# 20/40 White Prop, 71.7 Bpm At 3,574 Psi.. On Perfs, 72.2 Bpm At 3,343 Psi., 26,362 Gals. Stage Into 3.5# 20/40 White Prop, 72.0 Bpm At 3,274 Psi.. On Perfs, 72.1 Bpm At 3,241 Psi., 9,215 Gals. Stage Into 4.0# 20/40 White Prop, 72.1 Bpm At 3,237 Psi.. On Perfs, 72.1 Bpm At 3,195 Psi., 9,522 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,376 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 160,100# Total Clean - 137,615 Gals.. 3,277 Bbls.. Produced Water - 69,227 Gals.. 2% KCL - 66,463 Gals.. BWTR - 3,447 Bbls. Max. Rate - 72.9 Bpm Avg. Rate - 71.9 Bpm Max. Psi. - 4,000 Psi. Avg. Psi. - 3,370 Psi.</p>
11:10	0.25	11:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:25	1.08	12:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,248'. 2,050 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 7,089 - 7,331'. 45 Holes. 1,750 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
12:30	0.50	13:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:00	1.09	14:05	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,062 Psi. ICP. BrokeDown At 9.9 Bpm And 2,913 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.5 Bpm And 3,493 Psi., Get ISIP, 1,714 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes. Con't With SlickWater Pad, 48,082 Gals.. Stage Into Hybor Pad, 72.5 Bpm At 3,254 Psi.. On Perfs, 72.7 Bpm At 3,358 Psi., 12,199 Gals. Stage Into 2.0# 20/40 White Prop, 72.7 Bpm At 3,363 Psi.. On Perfs, 72.4 Bpm At 2,980 Psi., 8,217 Gals. Stage Into 3.0# 20/40 White Prop, 72.5 Bpm At 2,933 Psi.. On Perfs, 72.5 Bpm At 2,781 Psi., 24,068 Gals. Stage Into 3.5# 20/40 White Prop, 72.4 Bpm At 2,934 Psi.. On Perfs, 72.5 Bpm At 2,879 Psi., 9,061 Gals. Stage Into 4.0# 20/40 White Prop, 72.4 Bpm At 2,883 Psi.. On Perfs, 72.4 Bpm At 2,831 Psi., 9,300 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,922 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,100# Total Clean - 130,171 Gals.. 3,099 Bbls.. Produced Water - 65,405 Gals.. 2% KCL - 62,845 Gals.. BWTR - 3,247 Bbls. Max. Rate - 72.8 Bpm Avg. Rate - 72.4 Bpm Max. Psi. - 3,366 Psi. Avg. Psi. - 2,927 Psi.
14:05	0.34	14:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:25	1.08	15:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 7,077'. 1,750 Psi.. Perforate Stage 5 CR-1A/CR-1/UteLand Butte/Castle Peak Zone, 6,800 - 7,057'. 45 Holes. 1,700 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:30	0.25	15:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
15:45	1.25	17:00	FRAC	Frac. Job	<p>Frac Stage 5. Fluid System: Hybor G 16 Open Well, 1,407 Psi. ICP. BrokeDown At 9.9 Bpm And 2,307 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.7 Bpm And 3,351 Psi., Get ISIP, 1,668 Psi.. 0.68 Psi./Ft. F.G.. 37/45 Holes. Con't With SlickWater Pad, 51,290 Gals.. Stage Into .75# 100 Mesh Pad, 72.1 Bpm At 3,185 Psi.. On Perfs, 72.1 Bpm At 3,196 Psi., 19,286 Gals. Stage Into 1.0# 20/40 White Prop, 72.1 Bpm At 3,230 Psi.. On Perfs, 72.2 Bpm At 3,135 Psi., 7,698 Gals. Stage Into 2.0# 20/40 White Prop, 72.2 Bpm At 3,124 Psi.. On Perfs, 72.3 Bpm At 2,986 Psi., 7,738 Gals. Stage Into 3.0# 20/40 White Prop, 72.3 Bpm At 2,966 Psi.. On Perfs, 72.3 Bpm At 2,822 Psi., 24,941 Gals. Stage Into 3.5# 20/40 White Prop, 72.3 Bpm At 2,761 Psi.. On Perfs, 72.3 Bpm At 2,706 Psi., 8,668 Gals. Stage Into 4.0# 20/40 White Prop, 72.3 Bpm At 2,692 Psi.. On Perfs, 72.2 Bpm At 2,668 Psi., 8,953 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,862 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,500# Total 20/40 White Prop - 160,400# Total Clean - 147,308 Gals.. 3,507 Bbls.. Produced Water - 60,569 Gals. 2% KCL - 77,284 Gals.. BWTR - 3,710 Bbls. Max. Rate - 72.3 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 3,233 Psi. Avg. Psi. - 2,942 Psi.</p>
17:00	0.17	17:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:10	1.08	18:15	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 6,795'. 1,700 Psi.. Perforate Stage 5 Castle Peak/Black Shale Zone, 6,495 - 6,776'. 45 Holes. 1,600 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
18:15	11.75	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

5-16D-45 BTR 5/26/2013 06:00 - 5/27/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.37	06:22	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:22	0.38	06:45	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:45	1.25	08:00	FRAC	Frac. Job	<p>Frac Stage 6. Fluid System: Hybor G 16 Open Well, 1,025 Psi. ICP. BrokeDown At 10.5 Bpm And 2,164 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.6 Bpm And 3,150 Psi., Get ISIP, 1,509 Psi.. 0.67 Psi./Ft. F.G.. 42/45 Holes. Con't With SlickWater Pad, 52,056 Gals.. Stage Into .75# 100 Mesh Pad, 72.5 Bpm At 2,870 Psi.. On Perfs, 72.3 Bpm At 3,010 Psi., 19,548 Gals. Stage Into 1.0# 20/40 White Prop, 72.1 Bpm At 2,994 Psi.. On Perfs, 72.1 Bpm At 2,876 Psi., 7,497 Gals. Stage Into 2.0# 20/40 White Prop, 72.1 Bpm At 2,866 Psi.. On Perfs, 72.1 Bpm At 2,608 Psi., 7,591 Gals. Stage Into 3.0# 20/40 White Prop, 72.1 Bpm At 2,608 Psi.. On Perfs, 72.1 Bpm At 2,453 Psi., 26,564 Gals. Stage Into 3.5# 20/40 White Prop, 72.2 Bpm At 2,503 Psi.. On Perfs, 72.3 Bpm At 2,568 Psi., 8,495 Gals. Stage Into 4.0# 20/40 White Prop, 72.4 Bpm At 2,601 Psi.. On Perfs, 72.3 Bpm At 2,710 Psi., 8,683 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,689 Psi.. 0.69 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,500# Total 20/40 White Prop - 160,500# Total Clean - 149,057 Gals.. 3,549 Bbls.. Produced Water - 68,730 Gals. 2% KCL - 78,378 Gals.. BWTR - 3,739 Bbls. Max. Rate - 72.6 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 3,025 Psi. Avg. Psi. - 2,696 Psi.</p>
08:00	0.17	08:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:10	0.83	09:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 6,418'. 1,450 Psi.. Perforate Stage 7 Black Shale Zone, 6,292 - 6,398'. 24 Holes. 1,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:00	0.09	09:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
09:05	0.83	09:55	FRAC	Frac. Job	<p>Frac Stage 7. Fluid System: Hybor G 16 Open Well, 1,244 Psi. ICP. BrokeDown At 10.4 Bpm And 2,312 Psi.. Pump 3900 Gals. 15% HCL And 48 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 66.1 Bpm And 5,900 Psi., Get ISIP, 1,245 Psi.. 0.63 Psi./Ft. F.G.. 17/24 Holes. Con't With SlickWater Pad, 32,539 Gals.. Stage Into .75# 100 Mesh Pad, 66.4 Bpm At 5,857 Psi.. On Perfs, 65.6 Bpm At 5,701 Psi., 12,560 Gals. Stage Into 1.0# 20/40 White Prop, 66.0 Bpm At 6,400 Psi.. On Perfs, 65.9 Bpm At 6,800 Psi., 10,063 Gals. Stage Into 2.0# 20/40 White Prop, 65.9 Bpm At 6,549 Psi.. On Perfs, 66.1 Bpm At 5,378 Psi., 7,159 Gals. Stage Into 3.0# 20/40 White Prop, 66.2 Bpm At 5,378 Psi.. On Perfs, 66.4 Bpm At 4,455 Psi., 7,501 Gals. Stage Into 3.5# 20/40 White Prop, 66.4 Bpm At 4,384 Psi.. On Perfs, 66.7 Bpm At 3,843 Psi., 8,147 Gals. Stage Into 4.0# 20/40 White Prop, 66.7 Bpm At 3,753 Psi.. On Perfs, 67.0 Bpm At 3,445 Psi., 7,111 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,633 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 9,500# Total 20/40 White Prop - 98,200# Total Clean - 101,351 Gals.. 2,413 Bbls.. Produced Water - 47,569 Gals. 2% KCL - 52,541 Gals.. BWTR - 2,532 Bbls. Max. Rate - 66.7 Bpm Avg. Rate - 66.2 Bpm Max. Psi. - 6,852 Psi. Avg. Psi. - 5,387 Psi.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
09:55	0.25	10:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.
10:10	0.83	11:00	PFRT	Perforating	RIH With 3 1/8" Sinker Bar/CCL/CBP Plug Assembly. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 5,354 - 5,392'. Drop Down To Depth, Set CBP At 6,418'. 1,400 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.
11:00	3.00	14:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water. Start Moving Frac Tanks.

5-16D-45 BTR 5/28/2013 06:00 - 5/29/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.00	08:00	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.
08:00	2.50	10:30	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 262 JTS ON RACKS & TALLY TBG.
10:30	3.50	14:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO KILL PLUG @ 6250'
14:00	4.00	18:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, HELD. D/O KILL PLUG @ 6260'. FCP- 350 ON 28/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6406'. C/O SAND & D/O CBP @ 6418'. FCP- 300 ON 28/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6744'. C/O SAND & D/O CBP @ 6795'. FCP- 500 ON 26/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6900'. C/O SAND & D/O CBP @ 7077'. FCP- 300 ON 26/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL. SDFN. TURN WELL OVER TO FLOW BACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE CREW TRAVEL.

5-16D-45 BTR 5/29/2013 06:00 - 5/30/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	3.00	10:00	DOPG	Drill Out Plugs	WELL FLOWING TO PROD, MADE 566 BBLS WTR ON 20/64 CHOKE, FCP 400 PSI. OPEN TO FBT AND CONT D/O PLUGS. CBP #5 AT 7348'. C/O 74' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. CBP #6 AT 7590'. C/O 100' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. CBP #7 AT 7885'. C/O 109' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. PBTD. C/O 190' SAND TO FC AT 8361'. D/O 15' CMT TO PBTD AT 8376'.
10:00	1.50	11:30	GOP	General Operations	CIRC HOLE CLEAN. RD PWR SWIVEL
11:30	1.00	12:30	PULT	Pull Tubing	POOH AS LD 69-JTS TBG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	1.00	13:30	GOP	General Operations	LAND HANGER. RD FLOOR. ND BOP. NU WH. BOPS AT 2000 PSI. PLUMB IN WH. TURN OVER TO FBC AND SALES. TBG DETAIL HANGER 193-JTS 2-7/8" TBG 2.31 XN NIPPLE 1-JTS 2-7/8" TBG POBS.
13:30	1.50	15:00	SRIG	Rig Up/Down	RDSU. RACK OUT EQUIP.
15:00	1.50	16:30	RMOV	Rig Move	ROAD RIG TO 9-10-3-2 TO MOVE IN ON 13-10-3-2 WHEN DONE WITH FRAC.
16:30	13.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURN OVER TO FBC AND SALES.

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: chirtler@billbarrettcorp.com			8. Lease Name and Well No. 5-16D-45 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. 43-013-51223		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface NWNW 678FNL 1061FWL At top prod interval reported below NWNW 1294FNL 862FWL At total depth SWNW 1360FNL 858FWL			10. Field and Pool, or Exploratory UNDESIGNATED		
14. Date Spudded 04/01/2013			15. Date T.D. Reached 04/20/2013	16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 05/29/2013	17. Elevations (DF, KB, RT, GL)* 6338 GL
18. Total Depth: MD 8479 TVD 8430		19. Plug Back T.D.: MD 8362 TVD 8313		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CCL,GR,CBL,MUD			22. Was well cored? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)		

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80	80				
12.250	9.625 J-55	36.0	0	2221	2216	580	249	3292	
8.750	5.500 P110	17.0	0	8479	8448	1325	449		

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	6196							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	6292	7057	6292 TO 7057	0.380	114	OPEN
B) WASATCH	7089	8141	7089 TO 8141	0.380	168	OPEN
C)						
D)						

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

Depth Interval	Amount and Type of Material
6292 TO 7057	GREEN RIVER SEE ATTACHED STAGES 5-7
7089 TO 8141	WASATCH SEE ATTACHED STAGES 1-4

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
05/29/2013	05/31/2013	24	→	730.0	642.0	535.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
26/64	SI 625	1295.0	→	730	642	535	879	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	
			→						

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

ELECTRONIC SUBMISSION #211366 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	2617
				MAHOGANY	3428
				TGR3	4628
				DOUGLAS CREEK	5507
				BLACK SHALE	6313
				CASTLE PEAK	6544
				UTELAND BUTTE	6865
				WASATCH	7095

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. Conductor cemented with grout. Attached is Treatment data, Logs (CBL will be mailed due to file size) and End of Well Report. First gas sales were on 5/29/2013, first oil sales were on 5/31/2013.

33. Circle enclosed attachments:

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

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

**Electronic Submission #211366 Verified by the BLM Well Information System.
For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) CHRISTINA HIRTLER Title ADMINISTRATIVE ASSISTANT

Signature (Electronic Submission) Date 06/21/2013

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

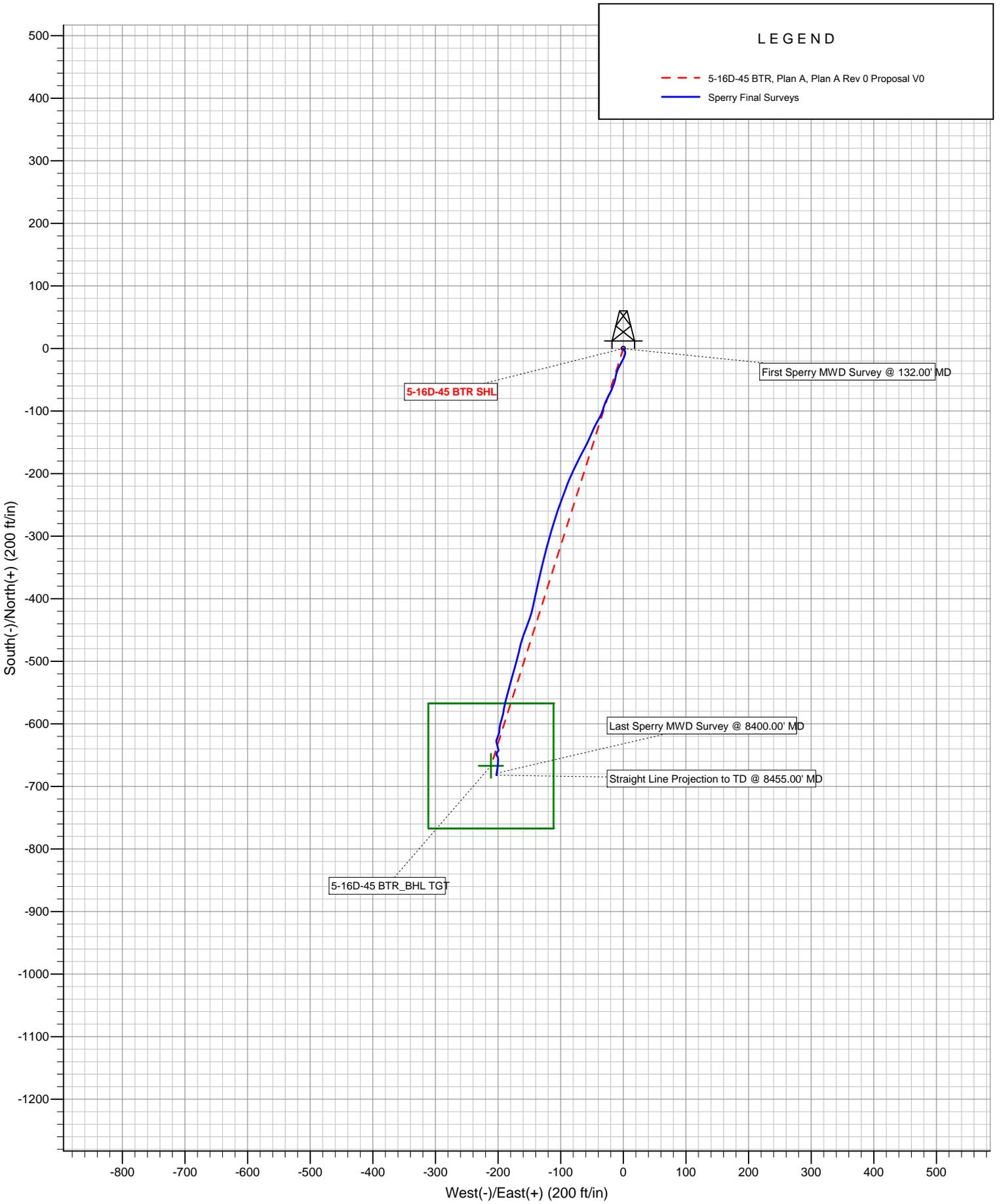
**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

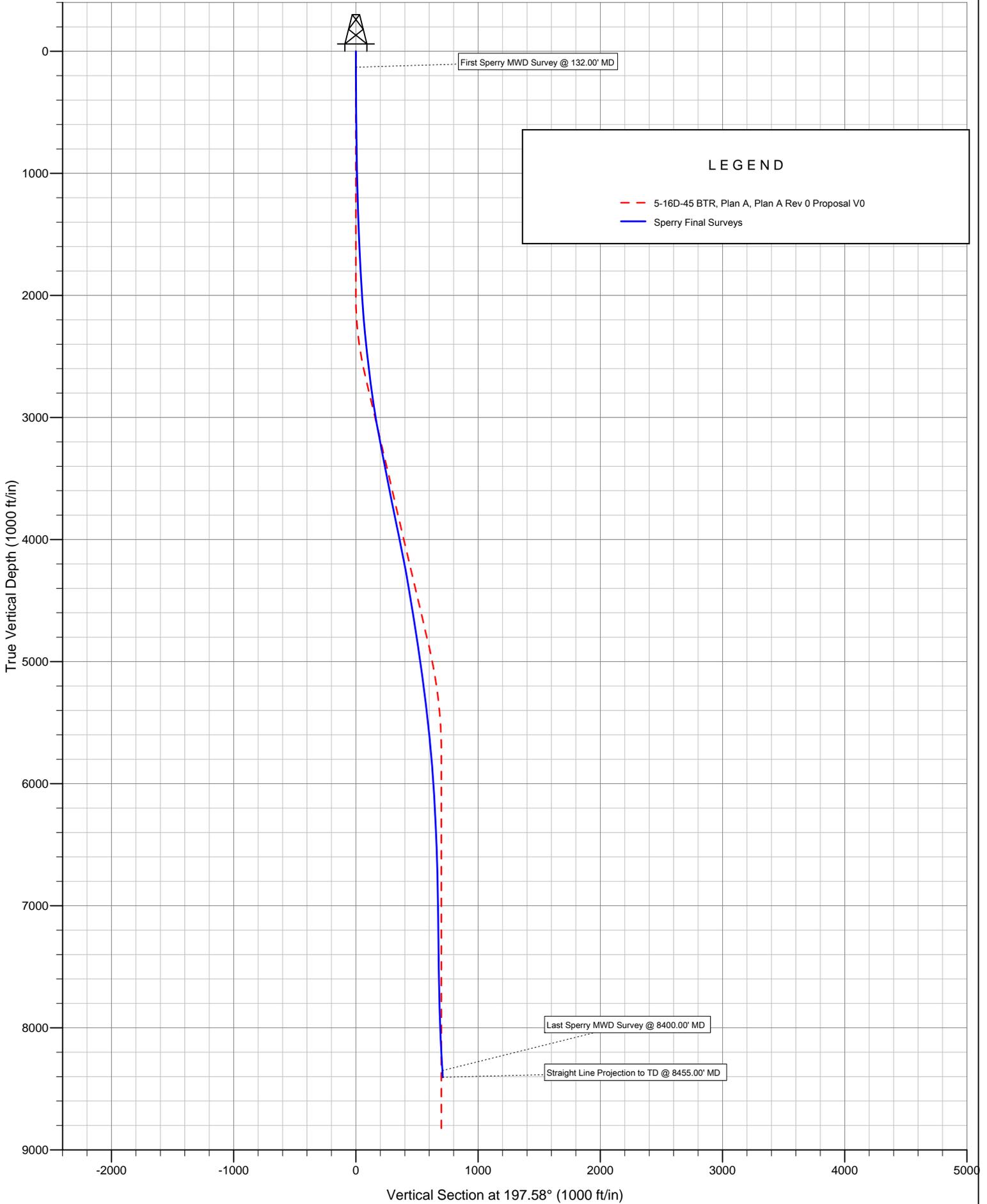
RECEIVED: Jun. 21, 2013

5-16D-45 BTR Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>BBS Slurry</u>	<u>lbs 100 Common Mesh</u>	<u>lbs 20/40 White Sand</u>	<u>gal 15% HCl Acid</u>
1	3092		140400	3602
2	3130		150800	3904
3	3293		160100	3950
4	3105		150100	3930
5	3544	14500	160400	4060
6	3546	14500	160500	3900
7	2419	9520	98260	2482

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







Design Report for 5-16D-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00
132.00	0.42	179.260	132.00	-0.48	0.01	0.46	0.32
First Sperry MWD Survey @ 132.00' MD							
193.00	0.43	152.940	193.00	-0.91	0.11	0.83	0.32
255.00	0.79	145.570	254.99	-1.47	0.46	1.26	0.59
338.00	0.59	169.920	337.99	-2.36	0.86	1.99	0.42
430.00	0.74	119.280	429.98	-3.12	1.46	2.53	0.64
521.00	0.30	119.100	520.98	-3.52	2.18	2.70	0.48
613.00	0.52	154.150	612.98	-4.02	2.57	3.05	0.35
707.00	0.94	167.810	706.97	-5.15	2.92	4.03	0.48
801.00	1.11	181.110	800.95	-6.82	3.07	5.57	0.31
896.00	1.16	187.040	895.93	-8.69	2.93	7.40	0.13
990.00	1.72	200.900	989.90	-10.95	2.31	9.74	0.70
1,084.00	1.40	200.650	1,083.87	-13.35	1.40	12.30	0.34
1,178.00	1.87	203.710	1,177.83	-15.83	0.38	14.97	0.51
1,273.00	1.76	208.650	1,272.78	-18.53	-0.94	17.94	0.20
1,367.00	1.62	205.310	1,366.74	-20.99	-2.20	20.68	0.18
1,461.00	2.12	213.090	1,460.69	-23.65	-3.72	23.67	0.60
1,555.00	2.21	210.310	1,554.63	-26.67	-5.58	27.11	0.15
1,650.00	2.54	202.600	1,649.54	-30.20	-7.32	31.00	0.48
1,744.00	3.02	199.870	1,743.43	-34.45	-8.96	35.55	0.53
1,839.00	3.40	198.190	1,838.28	-39.48	-10.69	40.86	0.41
1,933.00	3.54	190.600	1,932.11	-44.98	-12.09	46.53	0.51
2,027.00	3.88	194.820	2,025.92	-50.91	-13.44	52.59	0.46
2,122.00	3.89	197.990	2,120.70	-57.08	-15.26	59.02	0.23
2,144.00	3.80	198.980	2,142.65	-58.48	-15.72	60.50	0.51
2,311.00	5.89	206.440	2,309.04	-71.38	-21.34	74.50	1.30
2,405.00	5.79	206.420	2,402.56	-79.95	-25.60	83.95	0.11
2,499.00	6.88	200.340	2,495.98	-89.48	-29.66	94.26	1.36
2,594.00	6.82	198.570	2,590.30	-100.16	-33.44	105.58	0.23
2,688.00	6.81	207.750	2,683.64	-110.38	-37.81	116.65	1.16
2,782.00	7.71	208.980	2,776.89	-120.83	-43.46	128.31	0.97
2,876.00	8.75	204.230	2,869.92	-132.87	-49.45	141.60	1.32
2,971.00	9.25	203.020	2,963.75	-146.48	-55.40	156.37	0.56
3,065.00	9.94	209.780	3,056.44	-160.48	-62.39	171.83	1.40
3,159.00	11.11	206.410	3,148.85	-175.63	-70.44	188.71	1.41
3,253.00	10.85	205.520	3,241.13	-191.73	-78.28	206.42	0.33
3,348.00	11.39	203.340	3,334.35	-208.41	-85.85	224.61	0.72
3,442.00	10.88	198.760	3,426.58	-225.33	-92.38	242.71	1.09
3,536.00	11.25	201.410	3,518.83	-242.27	-98.58	260.73	0.67
3,630.00	10.78	198.130	3,611.10	-259.16	-104.67	278.67	0.83
3,725.00	11.43	197.890	3,704.32	-276.56	-110.32	296.97	0.69
3,819.00	11.50	196.470	3,796.45	-294.41	-115.84	315.65	0.31
3,913.00	11.75	194.040	3,888.52	-312.68	-120.82	334.57	0.58
4,007.00	11.43	194.870	3,980.60	-330.97	-125.53	353.43	0.38
4,102.00	11.30	193.430	4,073.74	-349.12	-130.11	372.11	0.33
4,196.00	11.38	193.290	4,165.91	-367.10	-134.38	390.55	0.09
4,290.00	10.17	191.710	4,258.25	-384.26	-138.20	408.05	1.32
4,384.00	10.05	191.610	4,350.79	-400.42	-141.53	424.46	0.13
4,478.00	10.12	193.450	4,443.34	-416.48	-145.10	440.86	0.35

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 5-16D-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
4,573.00	9.18	199.490	4,536.99	-431.74	-149.57	456.76	1.45
4,667.00	8.79	199.540	4,629.84	-445.58	-154.48	471.43	0.41
4,761.00	8.82	201.180	4,722.73	-459.07	-159.48	485.80	0.27
4,855.00	8.40	194.060	4,815.68	-472.45	-163.75	499.84	1.22
4,949.00	8.62	193.150	4,908.64	-485.97	-167.02	513.72	0.27
5,044.00	7.79	196.350	5,002.67	-499.08	-170.46	527.26	1.00
5,138.00	7.99	194.010	5,095.78	-511.53	-173.83	540.15	0.40
5,232.00	7.17	196.350	5,188.96	-523.50	-177.06	552.53	0.93
5,327.00	7.37	195.590	5,283.19	-535.06	-180.37	564.55	0.23
5,421.00	6.83	194.880	5,376.47	-546.27	-183.43	576.16	0.58
5,515.00	6.16	193.960	5,469.87	-556.56	-186.08	586.77	0.72
5,609.00	6.09	195.230	5,563.33	-566.27	-188.60	596.79	0.16
5,703.00	5.66	186.860	5,656.84	-575.68	-190.47	606.32	1.02
5,797.00	5.30	193.780	5,750.41	-584.50	-192.06	615.21	0.80
5,892.00	4.81	198.030	5,845.04	-592.55	-194.33	623.57	0.65
5,986.00	4.25	194.010	5,938.75	-599.68	-196.40	630.99	0.68
6,080.00	3.83	185.740	6,032.51	-606.18	-197.55	637.54	0.76
6,175.00	2.97	181.090	6,127.35	-611.80	-197.92	643.00	0.95
6,269.00	2.92	205.870	6,221.23	-616.39	-199.01	647.71	1.34
6,363.00	2.83	194.930	6,315.11	-620.78	-200.65	652.40	0.59
6,458.00	2.02	205.440	6,410.02	-624.56	-201.98	656.40	0.97
6,552.00	1.65	184.870	6,503.97	-627.41	-202.80	659.36	0.80
6,646.00	2.25	158.190	6,597.92	-630.47	-202.23	662.10	1.14
6,741.00	3.01	172.400	6,692.82	-634.67	-201.21	665.80	1.05
6,835.00	1.90	161.980	6,786.73	-638.60	-200.40	669.30	1.27
6,929.00	0.67	148.410	6,880.71	-640.55	-199.63	670.93	1.34
7,024.00	1.22	179.990	6,975.70	-642.03	-199.34	672.26	0.78
7,118.00	0.20	265.120	7,069.69	-643.05	-199.50	673.27	1.30
7,212.00	0.74	221.690	7,163.69	-643.52	-200.07	673.89	0.65
7,307.00	1.14	213.040	7,258.67	-644.77	-200.99	675.36	0.45
7,401.00	0.71	197.710	7,352.66	-646.11	-201.68	676.84	0.52
7,495.00	1.54	201.210	7,446.64	-647.84	-202.31	678.69	0.89
7,589.00	1.07	174.090	7,540.62	-649.89	-202.68	680.75	0.81
7,683.00	0.85	121.760	7,634.61	-651.13	-202.00	681.73	0.92
7,778.00	1.05	150.000	7,729.59	-652.25	-200.96	682.49	0.53
7,872.00	1.49	166.440	7,823.57	-654.19	-200.25	684.12	0.60
7,966.00	1.81	179.280	7,917.53	-656.86	-199.94	686.57	0.52
8,060.00	2.37	183.830	8,011.47	-660.28	-200.05	689.87	0.62
8,155.00	2.93	183.750	8,106.37	-664.67	-200.34	694.13	0.59
8,249.00	3.35	187.340	8,200.23	-669.79	-200.85	699.17	0.49
8,343.00	3.44	188.570	8,294.06	-675.30	-201.62	704.66	0.12
8,400.00	3.61	188.310	8,350.95	-678.77	-202.14	708.12	0.30
Last Sperry MWD Survey @ 8400.00' MD							
8,455.00	3.61	188.310	8,405.84	-682.19	-202.64	711.53	0.00
Straight Line Projection to TD @ 8455.00' MD							



Design Report for 5-16D-45 BTR - Sperry Final Surveys

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
132.00	132.00	-0.48	0.01	First Sperry MWD Survey @ 132.00' MD
8,400.00	8,350.95	-678.77	-202.14	Last Sperry MWD Survey @ 8400.00' MD
8,455.00	8,405.84	-682.19	-202.64	Straight Line Projection to TD @ 8455.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
Target	5-16D-45 BTR_BHL TGT	197.584	Slot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
132.00	8,455.00	Sperry MWD Surveys	MWD

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
5-16D-45 BTR_ZONE	0.00	0.00	5,849.00	-667.01	-211.39	658,524.59	2,290,503.97	40° 8' 12.109 N	110° 27' 39.341 W
- hit/miss target - Shape - actual wellpath misses target center by 75.80ft at 5901.97ft MD (5854.97 TVD, -593.34 N, -194.59 E) - Rectangle (sides W200.00 H200.00 D2,989.00)									
5-16D-45 BTR_BHL TGT	0.00	0.00	8,838.00	-667.01	-211.39	658,524.59	2,290,503.97	40° 8' 12.109 N	110° 27' 39.341 W
- actual wellpath misses target center by 432.51ft at 8455.00ft MD (8405.84 TVD, -682.19 N, -202.64 E) - Point									

**5-16D-45 BTR 4/12/2013 09:00 - 4/13/2013 06:00**

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:00	10.00	19:00	1	RIGUP & TEARDOWN	RIG DOWN, PREP TO MOVE. 75% RIGGED DOWN, 0% MOVED, 0% RIGGED UP. MAST DOWN @ 17:00 HRS.
19:00	11.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT TRUCKS/CRANES DUE EARLY.

5-16D-45 BTR 4/13/2013 06:00 - 4/14/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00	1	RIGUP & TEARDOWN	MOVE & RIG UP. 95% MOVED, 60% RIGGED UP.
20:00	10.00	06:00	1	RIGUP & TEARDOWN	WAIT ON DAYLIGHT.

5-16D-45 BTR 4/14/2013 06:00 - 4/15/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	19.75	01:45	1	RIGUP & TEARDOWN	MOVE CAMP & DRILLING TUBULARS. CONTINUE TO RIG UP. MAST UP @ 10:30 HRS. CRANES & MOST TRUCKS RELEASED @ 11:00 HRS. WELD ON 16" RISER W/ROTATING HEAD.
01:45	3.75	05:30	1	RIGUP & TEARDOWN	PICK UP & MAKE UP 12 1/4 BHA. PROBLEM GETTING ENOUGH TORQUE FROM ST-80. RIG UP MANUAL TONGS.
05:30	0.50	06:00	2	DRILL ACTUAL	TAG UP @ 104'. ROTATE DRILL 12 1/4 HOLE 104-131'. ROP 54 FPH. PUMP 600 GPM FOR FIRST 25'.

5-16D-45 BTR 4/15/2013 06:00 - 4/16/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.75	10:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 131-332', MAKING DC CONNECTIONS. ROP 48 FPH.
10:45	0.25	11:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 332-340'. ROP 32 FPH.
11:00	0.75	11:45	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 340-416' MAKING HWDP CONNS. ROP 101.3 FPH.
11:45	0.25	12:00	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 416-424'. ROP 32 FPH.
12:00	1.25	13:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 424-507' MAKING HWDP CONNS. ROP 66.4 FPH.
13:15	0.25	13:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 507-515'. ROP 32 FPH.
13:30	2.50	16:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 515-690' MAKING HWDP CONNS. ROP 70 FPH.
16:00	0.50	16:30	14	NIPPLE UP B.O.P	INSTALL ROTATING RUBBER.
16:30	0.50	17:00	7	LUBRICATE RIG	ROUTINE RIG SERVICE.
17:00	1.25	18:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 690-784'. ROP 75.2 FPH.
18:15	0.25	18:30	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 784-792'. ROP 32 FPH.
18:30	11.50	06:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 792-1488'. ROP 60.5 FPH. BGG INCREASED AT ~1130'.

5-16D-45 BTR 4/16/2013 06:00 - 4/17/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.25	07:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1488-1562'. ROP 59.2 FPH.
07:15	0.50	07:45	7	LUBRICATE RIG	ROUTINE RIG SERVICE & REPLACE O-RING IN MUD LINE.
07:45	7.50	15:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 1562-2010'. ROP 59.7 FPH.
15:15	0.50	15:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2010-2020'. ROP 20 FPH.
15:45	1.50	17:15	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2020-2104'. ROP 56 FPH. #2 PUMP DOWN 16:45 TO 17:20 HRS.
17:15	0.50	17:45	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2104-2114'. ROP 20 FPH.
17:45	1.25	19:00	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2114-2199'. ROP 68 FPH.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
19:00	0.25	19:15	2	DRILL ACTUAL	SLIDE DRILL 12 1/4 HOLE 2199-2205'. ROP 24 FPH.
19:15	0.25	19:30	2	DRILL ACTUAL	ROTATE DRILL 12 1/4 HOLE 2205-2221'. ROP 64 FPH.
19:30	0.50	20:00	5	COND MUD & CIRC	PUMP 70 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. PUMP SLUG.
20:00	2.00	22:00	6	TRIPS	HELD PJSM & POH TO TOP OF DC's. RIH, PRECAUTIONARY WASH LAST STAND TO BOTTOM.
22:00	0.50	22:30	5	COND MUD & CIRC	PUMP 70 BBL HIVIS/LCM SWEEP & CIRCULATE 1 1/2 BOTTOMS UP. FLOW CHECK & PUMP SLUG.
22:30	3.25	01:45	6	TRIPS	BLOW DOWN TOP DRIVE & MUD LINES & POH. LAY DOWN 8" SPERRY TOOLS.
01:45	1.25	03:00	12	RUN CASING & CEMENT	CLEAN UP RIG FLOOR & HOLD PJSM. RIG UP CASING TOOLS.
03:00	3.00	06:00	12	RUN CASING & CEMENT	MAKE UP/THREADLOCK 1 JT SHOE TRACK. RUN 20 JTS 9 5/8, 36#, J55, STC, R3 CASING TO 870'. FILL CASING EVERY 5 JTS.

5-16D-45 BTR 4/17/2013 06:00 - 4/18/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	12	RUN CASING & CEMENT	RUN CASING. FC(1.40), 1 SHOE JT (43.95), FC (.90), 50 JTS 9 5/8" 36# J55 CASING (2174.02). LANDED @ 2216' MADE UP W/ BESTOLIFE DOPE TO 3940 FT/LB.
07:30	3.75	11:15	21	OPEN	CIRC WO HES TO RIG UP SUPPOST TO ON LOC @ 8:00 LAST TRUCK ON LOC 10:30 RIG UP AT 11:00.
11:15	2.00	13:15	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 20 BLS H2O, 40 BLS SUPER FLUSH, 20 BLS H2O 34 SKS HLC PREMIUM 192 BL 11# 3.16 YEILD W/ 5 LB SILCALITE .125 LB POLY-E-FLAKE, .25 LB KWIK SEAL. TAILED W/ 240 SKS PREMIUM PLUS TYPE III 57 BLS 14.8# 1.33 YEILD W/ .125 LB POLY-E-FLAKE. DISPLACED W/ 165 BLS H2O. BUMP PLUG FLOATS HELD. 100 BLS OF CEMENT TO SURFACE.
13:15	0.50	13:45	15	TEST B.O.P	TEST CASING TO 1500# F/ 30 MINS
13:45	3.00	16:45	13	WAIT ON CEMENT	WOC
16:45	2.25	19:00	14	NIPPLE UP B.O.P	CUT OFF AND WEL ON WELL HEAD
19:00	1.00	20:00	14	NIPPLE UP B.O.P	NIPPLE UP BOP
20:00	3.25	23:15	15	TEST B.O.P	TEST BOP. A-1 TESTERS. TESR ALL RAMS AND VALVES TO 5000# F/ 10 MINS. TEST ANNULAR TO 2500# F/ 10 MINS.
23:15	0.50	23:45	14	NIPPLE UP B.O.P	INSTALL WEAR BUSHING
23:45	1.00	00:45	20	DIRECTIONAL WORK	PICK UP BHA, OREINTATE MWD.
00:45	1.00	01:45	6	TRIPS	TIH
01:45	1.25	03:00	21	OPEN	DRILLOUT SHOE TRACK
03:00	0.75	03:45	22	OPEN	EMW 230 PSI W/ 8.5 MUD = 10.5 PPG
03:45	2.25	06:00	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 2221' TO 2743'(522' IN 232 FPH), SLIDE: 30' IN .25 HR = 120 FPH, ROTATE: 492' IN 2 HR = 246 FPH. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB.

5-16D-45 BTR 4/18/2013 06:00 - 4/19/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.25	17:15	2	DRILL ACTUAL	DRLG 8 3/4" HOLE F/ 2743' TO 4722' (1979' IN 11.25 HR 175.9 FPH) SLIDE: 113' IN 1.75 HR = 64.6 FPH. ROTATE: 1866' IN 9.5 HR = 196.4 FPH. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB. STARTED LOSING RETURNS @ 3969' MIXING LCM ON THE FLY LOSING 70 BLS/HR.
17:15	0.50	17:45	7	LUBRICATE RIG	RIG SERVICE
17:45	12.25	06:00	2	DRILL ACTUAL	DRLG F/ 4722' TO 6230' (1508' IN 12.25 HR = 123.1 FPH) SLIDE: 96' IN 3.75 HR = 25.6 FPH. ROTATE: 1412' IN 8.5 HR = 166.1 FPH. STILL LOSING MUD @ 60 BLS/HR.

5-16D-45 BTR 4/19/2013 06:00 - 4/20/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.25	16:15	2	DRILL ACTUAL	DRLG F/ 6230' TO 7267' (1037' IN 10.25 HR = 101.2 FPH) SLIDE: 154' IN 5 HR =30.8 FPH, ROTATE: 883' IN 5.25 HR = 168.2 FPH. LOSING 40 BLS / HR OF MUD. MM SPERRY DRILL XL 6/7 LOBE 4.5 STAGE .3 RPG 1.5 DEGREE FIXED 3.03 BTB.
16:15	0.50	16:45	7	LUBRICATE RIG	RIG SERVICE
16:45	12.50	05:15	2	DRILL ACTUAL	DRLG F/ 7267' TO 8455' (1188' IN 12.5 HR = 95 FPH) SLIDE: 51' IN 1.75 HR = 29.1 FPH, ROTATE: 1137' IN 10.75 HR = 105.8 FPH. BY PASS SHAKERS 24 % LCM. 85.25 TOTAL ROTING HR.
05:15	0.75	06:00	5	COND MUD & CIRC	CIRC COND F/ LOGS

5-16D-45 BTR 4/20/2013 06:00 - 4/21/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.75	09:45	6	TRIPS	SHORT TRIP TO 3500'
09:45	0.75	10:30	5	COND MUD & CIRC	CIRC. COND. F/ LOGS
10:30	4.75	15:15	6	TRIPS	TOOH, L/D DIRCTIONAL TOOLS
15:15	6.50	21:45	11	WIRELINE LOGS	HSM, RIG HES AND LOG RUN QUADE COMBO F/ 8272' TO SURFACE CASING
21:45	0.50	22:15	14	NIPPLE UP B.O.P	PULLWEAR BUSHING
22:15	3.75	02:00	6	TRIPS	TIH
02:00	0.75	02:45	5	COND MUD & CIRC	CIRC. COND F/ CASING
02:45	3.25	06:00	6	TRIPS	LDDP

5-16D-45 BTR 4/21/2013 06:00 - 4/22/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	LDDP AND DCS
09:00	7.25	16:15	12	RUN CASING & CEMENT	HSM, RIG WEATHERFORD AND RUN CASING. FS (1.00), 2 SHOE JTS (84.94), FC (1.00), 27 JTS 51/2" 17# P110 LT&C CASING (1146.58), MARKER JT (22.06), 20 JTS CASING (843.38), MAKER JT (22.08), 146 JTS CASING (6330.76). LANDED @ 8448' MADE UP W/ BESTOLIFE DOPE TO 4620 FT/LB.
16:15	1.00	17:15	5	COND MUD & CIRC	CIRC. COND F/ CEMENT @ 10.5 BL/MIN W/ FULL RETURNS.
17:15	3.25	20:30	12	RUN CASING & CEMENT	HSM, SWAP TO HES AND CEMENT. 5 BLS H2O, 40 BLS SUPERFLUSH, 10 BLS H2O, 705 SKS TUNED LIGHT 291 BLS 11# 2.32 YEILD. TAILED W/ 620 SKS ECONOCHEM 158 BLS 13.5# 1.45 YEILD W/ 1 LB GRALULITE, .125 LB POLY-E-FLAKE. DISPLACED W/ 194 BLS H2O W/ CLAYWEB, AND ALICIDE. BUMP PLUG FLOATS HELD. WITH 55 BLS LEFT IN DIPLACEMENT LOST RETURNS.
20:30	9.50	06:00	14	NIPPLE UP B.O.P	NIPPLE DN SET SLIPS W/ 175K. CLEAN MUD TANKS. RIG RELEASE 4/22/13 06:00 HR AND DEMOB COMENCED.

5-16D-45 BTR 4/22/2013 06:00 - 4/23/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	RIG DEMOB, LOAD OUT MOTORS, VFD. TAKE DERRICK, DRAWTOOL AND DOG HOUSE OFF FLOOR. LOAD OUT CENTER STEEL. LOAD OUT RENTAL EQUIPMENT, PREMIX TANK, BAR HOPPERS, 400 BLS TANKS, FLARE BOX, FLARE LINES AND CETRAFUGE. START DP INSPECTION.

5-16D-45 BTR 4/23/2013 06:00 - 4/24/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	14.00	20:00			UNSTACK SUBS, POWER WASH ON RIG WILL LOAD OUT MUD TANKS AND AND LOWER SUB TODAY. INPECT 100 MORE JT OF DP.

5-16D-45 BTR 4/24/2013 06:00 - 4/25/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	14.00	20:00	1	RIGUP & TEARDOWN	POWER WASH, LOAD MUD TANKS, SUBS AND CHOKE HOUSA. DRAWWORKS AND DERICK LEFT. INPECTING DP.	

5-16D-45 BTR 4/25/2013 06:00 - 4/26/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	12.00	18:00			LOAD OUT THE REST OF RIG. FINISH DP INSPECTION 416 JTS PREMIUM, 26 JTS CLASS 2, 2 JTS CLASS 3. 431 JTS REFACED, 14 JTS NEED RECUT. 7 JTS DAMAGED BY SLIPS AND ST-80. END OF DEMOBE.	

5-16D-45 BTR 4/29/2013 06:00 - 4/30/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	CLEAN CELLAR. ND 11" NIGHT CAP. NU 7" 5K TBG HEAD. NU 7" NIGHT CAP.	

5-16D-45 BTR 5/1/2013 06:00 - 5/2/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	2.00	08:00	LOCL	Lock Wellhead & Secure	WSI Shut In And Secured.	
08:00	1.00	09:00	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.	
09:00	4.00	13:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 8,305', Drilling Report Shows FC At 8,361', 56' Of Fill. POOH, P/U CBL Tool, Rih To PBDT, 8,305', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 04-20-2013. Run Repeat Section From 8,305 - 8,100', Log Up Hole. Showed Good Bond From TD To 7,050, 7,050 - 6,950' Fair, 6,950 - 5,400 Good, 5,400 - 3,600 Fair, 3,600 - 3,168 Bad. TOC 3,168'. Found Short Joints At 7,192 - 7,215' And 6,327 - 6,349'. Ran With Pressure. Pooh, RD Equipment, MOL.	
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured	

5-16D-45 BTR 5/18/2013 06:00 - 5/19/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	SET FB TANKS. SET AND PLUMB IN FB EQUIP.	

5-16D-45 BTR 5/20/2013 06:00 - 5/21/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	CHECK PRESSURE. ND 7" NIGHT CAP. NU FRAC MANDREL, FRAC VALVES, FRAC HEAD. PRES TEST CSG, VALVES, AND FB EQUIP. MOVE IN FRAC LINE. SET BACKSIDE MANIFLOD. SET HANDRAILS. START FILLING FRAC LINE.	

5-16D-45 BTR 5/21/2013 06:00 - 5/22/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	FINISH SETTING FRAC LINE. FILLING FRAC LINE. RU HANDRAILS AND BACKSIDE MANIFOLD.	

5-16D-45 BTR 5/23/2013 06:00 - 5/24/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Heat KCL Tanks. HES Set Manifold And Mover.

5-16D-45 BTR 5/24/2013 06:00 - 5/25/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Wireline Crew Arrive On Location. Hold Safety Meeting. Rig Up Lubricator, Arm Gun.
07:00	4.25	11:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Perforate Stage 1 CR-4A/CR-4 Zone, 7,906 - 8,141'. 36 Holes. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
11:15	3.75	15:00	SRIG	Rig Up/Down	HES Rigging Up
15:00	15.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

5-16D-45 BTR 5/25/2013 06:00 - 5/26/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013512230000	UT	Duchesne	Black Tail Ridge	PRODUCING	8,455.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.00	06:00	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:00	0.00	06:00	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.
06:00	0.00	06:00	FRAC	Frac. Job	Frac Stage 1. Fluid System: Hybor G 16 Open Well, 80 Psi. ICP. BrokeDown At 9.6 Bpm And 3,370 Psi.. Pump 3900 Gals. 15% HCL And 72 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.5 Bpm And 4,986 Psi., Get ISIP, 2,552 Psi.. 0.76 Psi./Ft. F.G.. 36/36 Holes. Con't With SlickWater Pad, 45,922 Gals.. Stage Into Hybor Pad, 72.2 Bpm At 4,452 Psi.. On Perfs, 72.1 Bpm At 4,638 Psi., 15,657 Gals. Stage Into 2.0# 20/40 White Prop, 71.9 Bpm At 4,612 Psi.. On Perfs, 70.7 Bpm At 4,113 Psi., 8,710 Gals. Stage Into 3.0# 20/40 White Prop, 71.7 Bpm At 4,080 Psi.. On Perfs, 72.1 Bpm At 3,827 Psi., 18,051 Gals. Stage Into 3.5# 20/40 White Prop, 72.2 Bpm At 3,709 Psi.. On Perfs, 72.3 Bpm At 3,615 Psi., 9,823 Gals. Stage Into 4.0# 20/40 White Prop, 72.2 Bpm At 3,605 Psi.. On Perfs, 72.2 Bpm At 3,517 Psi., 10,899 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,718 Psi.. 0.78 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 140,400# Total Clean - 129,542 Gals.. 3,084 Bbls.. Produced Water - 64,625 Gals.. 2% KCL - 63,140 Gals.. BWTR - 3,231 Bbls. Max. Rate - 72.5 Bpm Avg. Rate - 71.6 Bpm Max. Psi. - 4,642 Psi. Avg. Psi. - 3,821 Psi.
06:00	0.34	06:20	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
06:20	1.17	07:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,885'. 2,350 Psi.. Perforate Stage 2 CR-4/CR-3 Zone, 7,603 - 7,865'. 45 Holes. 900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
07:30	0.08	07:35	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:35	1.08	08:40	FRAC	Frac. Job	<p>Frac Stage 2. Fluid System: Hybor G 16 Open Well, 200 Psi. ICP. BrokeDown At 9.9 Bpm And 3,067 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.9 Bpm And 4,770 Psi., Get ISIP, 2,284 Psi.. 0.73 Psi./Ft. F.G.. 34/45 Holes. Con't With SlickWater Pad, 48,271 Gals.. Stage Into Hybor Pad, 71.9 Bpm At 4,066 Psi.. On Perfs, 72.1 Bpm At 4,224 Psi., 12,170 Gals. Stage Into 2.0# 20/40 White Prop, 72.2 Bpm At 4,213 Psi.. On Perfs, 72.1 Bpm At 3,835 Psi., 8,710 Gals. Stage Into 3.0# 20/40 White Prop, 72.2 Bpm At 3,802 Psi.. On Perfs, 72.2 Bpm At 3,397 Psi., 22,345 Gals. Stage Into 3.5# 20/40 White Prop, 72.1 Bpm At 3,362 Psi.. On Perfs, 72.2 Bpm At 3,337 Psi., 9,512 Gals. Stage Into 4.0# 20/40 White Prop, 72.2 Bpm At 3,333 Psi.. On Perfs, 72.3 Bpm At 3,305 Psi., 10,150 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,351 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,800# Total Clean - 131,287 Gals.. 3,126 Bbls.. Produced Water - 66,492 Gals.. 2% KCL - 62,887 Gals.. BWTR - 3,281 Bbls. Max. Rate - 72.5 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 4,239 Psi. Avg. Psi. - 3,481 Psi.</p>
08:40	0.25	08:55	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:55	1.08	10:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,590'. 2,150 Psi.. Perforate Stage 3 CR-3/CR-2 Zone, 7,353 - 7,576'. 42 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
10:00	0.09	10:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
10:05	1.08	11:10	FRAC	Frac. Job	<p>Frac Stage 3. Fluid System: Hybor G 16 Open Well, 1,900 Psi. ICP. BrokeDown At 9.9 Bpm And 3,377 Psi.. Pump 3900 Gals. 15% HCL And 84 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.7 Bpm And 3,895 Psi., Get ISIP, 2,166 Psi.. 0.73 Psi./Ft. F.G.. 39/42 Holes. Con't With SlickWater Pad, 51,539 Gals.. Stage Into Hybor Pad, 72.0 Bpm At 3,706 Psi.. On Perfs, 72.1 Bpm At 3,960 Psi., 12,958 Gals. Stage Into 2.0# 20/40 White Prop, 72.1 Bpm At 3,992 Psi.. On Perfs, 72.1 Bpm At 3,630 Psi., 8,406 Gals. Stage Into 3.0# 20/40 White Prop, 71.7 Bpm At 3,574 Psi.. On Perfs, 72.2 Bpm At 3,343 Psi., 26,362 Gals. Stage Into 3.5# 20/40 White Prop, 72.0 Bpm At 3,274 Psi.. On Perfs, 72.1 Bpm At 3,241 Psi., 9,215 Gals. Stage Into 4.0# 20/40 White Prop, 72.1 Bpm At 3,237 Psi.. On Perfs, 72.1 Bpm At 3,195 Psi., 9,522 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 2,376 Psi.. 0.76 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 160,100# Total Clean - 137,615 Gals.. 3,277 Bbls.. Produced Water - 69,227 Gals.. 2% KCL - 66,463 Gals.. BWTR - 3,447 Bbls. Max. Rate - 72.9 Bpm Avg. Rate - 71.9 Bpm Max. Psi. - 4,000 Psi. Avg. Psi. - 3,370 Psi.</p>
11:10	0.25	11:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:25	1.08	12:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 7,192 - 7,215'. Drop Down To Depth, Set CBP At 7,248'. 2,050 Psi.. Perforate Stage 4 CR-2/Wasatch Zone, 7,089 - 7,331'. 45 Holes. 1,750 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
12:30	0.50	13:00	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
13:00	1.09	14:05	FRAC	Frac. Job	Frac Stage 4. Fluid System: Hybor G 16 Open Well, 1,062 Psi. ICP. BrokeDown At 9.9 Bpm And 2,913 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.5 Bpm And 3,493 Psi., Get ISIP, 1,714 Psi.. 0.68 Psi./Ft. F.G.. 40/45 Holes. Con't With SlickWater Pad, 48,082 Gals.. Stage Into Hybor Pad, 72.5 Bpm At 3,254 Psi.. On Perfs, 72.7 Bpm At 3,358 Psi., 12,199 Gals. Stage Into 2.0# 20/40 White Prop, 72.7 Bpm At 3,363 Psi.. On Perfs, 72.4 Bpm At 2,980 Psi., 8,217 Gals. Stage Into 3.0# 20/40 White Prop, 72.5 Bpm At 2,933 Psi.. On Perfs, 72.5 Bpm At 2,781 Psi., 24,068 Gals. Stage Into 3.5# 20/40 White Prop, 72.4 Bpm At 2,934 Psi.. On Perfs, 72.5 Bpm At 2,879 Psi., 9,061 Gals. Stage Into 4.0# 20/40 White Prop, 72.4 Bpm At 2,883 Psi.. On Perfs, 72.4 Bpm At 2,831 Psi., 9,300 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,922 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total 20/40 White Prop - 150,100# Total Clean - 130,171 Gals.. 3,099 Bbls.. Produced Water - 65,405 Gals.. 2% KCL - 62,845 Gals.. BWTR - 3,247 Bbls. Max. Rate - 72.8 Bpm Avg. Rate - 72.4 Bpm Max. Psi. - 3,366 Psi. Avg. Psi. - 2,927 Psi.
14:05	0.34	14:25	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
14:25	1.08	15:30	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 7,077'. 1,750 Psi.. Perforate Stage 5 CR-1A/CR-1/UteLand Butte/Castle Peak Zone, 6,800 - 7,057'. 45 Holes. 1,700 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
15:30	0.25	15:45	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
15:45	1.25	17:00	FRAC	Frac. Job	Frac Stage 5. Fluid System: Hybor G 16 Open Well, 1,407 Psi. ICP. BrokeDown At 9.9 Bpm And 2,307 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.7 Bpm And 3,351 Psi., Get ISIP, 1,668 Psi.. 0.68 Psi./Ft. F.G.. 37/45 Holes. Con't With SlickWater Pad, 51,290 Gals.. Stage Into .75# 100 Mesh Pad, 72.1 Bpm At 3,185 Psi.. On Perfs, 72.1 Bpm At 3,196 Psi., 19,286 Gals. Stage Into 1.0# 20/40 White Prop, 72.1 Bpm At 3,230 Psi.. On Perfs, 72.2 Bpm At 3,135 Psi., 7,698 Gals. Stage Into 2.0# 20/40 White Prop, 72.2 Bpm At 3,124 Psi.. On Perfs, 72.3 Bpm At 2,986 Psi., 7,738 Gals. Stage Into 3.0# 20/40 White Prop, 72.3 Bpm At 2,966 Psi.. On Perfs, 72.3 Bpm At 2,822 Psi., 24,941 Gals. Stage Into 3.5# 20/40 White Prop, 72.3 Bpm At 2,761 Psi.. On Perfs, 72.3 Bpm At 2,706 Psi., 8,668 Gals. Stage Into 4.0# 20/40 White Prop, 72.3 Bpm At 2,692 Psi.. On Perfs, 72.2 Bpm At 2,668 Psi., 8,953 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,862 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,500# Total 20/40 White Prop - 160,400# Total Clean - 147,308 Gals.. 3,507 Bbls.. Produced Water - 60,569 Gals. 2% KCL - 77,284 Gals.. BWTR - 3,710 Bbls. Max. Rate - 72.3 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 3,233 Psi. Avg. Psi. - 2,942 Psi.
17:00	0.17	17:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
17:10	1.08	18:15	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 6,795'. 1,700 Psi.. Perforate Stage 5 Castle Peak/Black Shale Zone, 6,495 - 6,776'. 45 Holes. 1,600 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
18:15	11.75	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. SDFD.

5-16D-45 BTR 5/26/2013 06:00 - 5/27/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.37	06:22	LOCL	Lock Wellhead & Secure	HES Crew On Location At 0400 Hrs., Prime Chemical And Fluid Pumps, Pressure Test To 9000 Psi., Ran QC On Fluid, Looks Good.
06:22	0.38	06:45	SMTG	Safety Meeting	Safety Meeting. Talk About Smoking Area, PPE, Escape And Mustering Areas, Communication, And Red Zone.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:45	1.25	08:00	FRAC	Frac. Job	<p>Frac Stage 6. Fluid System: Hybor G 16 Open Well, 1,025 Psi. ICP. BrokeDown At 10.5 Bpm And 2,164 Psi.. Pump 3900 Gals. 15% HCL And 90 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 72.6 Bpm And 3,150 Psi., Get ISIP, 1,509 Psi.. 0.67 Psi./Ft. F.G.. 42/45 Holes. Con't With SlickWater Pad, 52,056 Gals.. Stage Into .75# 100 Mesh Pad, 72.5 Bpm At 2,870 Psi.. On Perfs, 72.3 Bpm At 3,010 Psi., 19,548 Gals. Stage Into 1.0# 20/40 White Prop, 72.1 Bpm At 2,994 Psi.. On Perfs, 72.1 Bpm At 2,876 Psi., 7,497 Gals. Stage Into 2.0# 20/40 White Prop, 72.1 Bpm At 2,866 Psi.. On Perfs, 72.1 Bpm At 2,608 Psi., 7,591 Gals. Stage Into 3.0# 20/40 White Prop, 72.1 Bpm At 2,608 Psi.. On Perfs, 72.1 Bpm At 2,453 Psi., 26,564 Gals. Stage Into 3.5# 20/40 White Prop, 72.2 Bpm At 2,503 Psi.. On Perfs, 72.3 Bpm At 2,568 Psi., 8,495 Gals. Stage Into 4.0# 20/40 White Prop, 72.4 Bpm At 2,601 Psi.. On Perfs, 72.3 Bpm At 2,710 Psi., 8,683 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,689 Psi.. 0.69 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 14,500# Total 20/40 White Prop - 160,500# Total Clean - 149,057 Gals.. 3,549 Bbls.. Produced Water - 68,730 Gals. 2% KCL - 78,378 Gals.. BWTR - 3,739 Bbls. Max. Rate - 72.6 Bpm Avg. Rate - 72.2 Bpm Max. Psi. - 3,025 Psi. Avg. Psi. - 2,696 Psi.</p>
08:00	0.17	08:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CBP Plug Assembly. Equalize To Well Pressure.
08:10	0.83	09:00	PFRT	Perforating	<p>RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 120 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 6,327 - 6,349'. Drop Down To Depth, Set CBP At 6,418'. 1,450 Psi.. Perforate Stage 7 Black Shale Zone, 6,292 - 6,398'. 24 Holes. 1,400 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.</p>
09:00	0.09	09:05	GOP	General Operations	Well Turned Over To HES. Pressure Test To 8500#. Equalize, Open To Well.
09:05	0.83	09:55	FRAC	Frac. Job	<p>Frac Stage 7. Fluid System: Hybor G 16 Open Well, 1,244 Psi. ICP. BrokeDown At 10.4 Bpm And 2,312 Psi.. Pump 3900 Gals. 15% HCL And 48 Bio Balls, Attempt BallOut. Let Balls Fall. Get Stabilized Injection Of 66.1 Bpm And 5,900 Psi., Get ISIP, 1,245 Psi.. 0.63 Psi./Ft. F.G.. 17/24 Holes. Con't With SlickWater Pad, 32,539 Gals.. Stage Into .75# 100 Mesh Pad, 66.4 Bpm At 5,857 Psi.. On Perfs, 65.6 Bpm At 5,701 Psi., 12,560 Gals. Stage Into 1.0# 20/40 White Prop, 66.0 Bpm At 6,400 Psi.. On Perfs, 65.9 Bpm At 6,800 Psi., 10,063 Gals. Stage Into 2.0# 20/40 White Prop, 65.9 Bpm At 6,549 Psi.. On Perfs, 66.1 Bpm At 5,378 Psi., 7,159 Gals. Stage Into 3.0# 20/40 White Prop, 66.2 Bpm At 5,378 Psi.. On Perfs, 66.4 Bpm At 4,455 Psi., 7,501 Gals. Stage Into 3.5# 20/40 White Prop, 66.4 Bpm At 4,384 Psi.. On Perfs, 66.7 Bpm At 3,843 Psi., 8,147 Gals. Stage Into 4.0# 20/40 White Prop, 66.7 Bpm At 3,753 Psi.. On Perfs, 67.0 Bpm At 3,445 Psi., 7,111 Gals. Stage Into Flush, Flush 15 Bbls. Over Bottom Perf.. Get ISDP, 1,633 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. 100 Mesh - 9,500# Total 20/40 White Prop - 98,200# Total Clean - 101,351 Gals.. 2,413 Bbls.. Produced Water - 47,569 Gals. 2% KCL - 52,541 Gals.. BWTR - 2,532 Bbls. Max. Rate - 66.7 Bpm Avg. Rate - 66.2 Bpm Max. Psi. - 6,852 Psi. Avg. Psi. - 5,387 Psi.</p>



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
09:55	0.25	10:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up CBP Plug Assembly. Equalize To Well Pressure.	
10:10	0.83	11:00	PFRT	Perforating	RIH With 3 1/8" Sinker Bar/CCL/CBP Plug Assembly. Correlating To HES DSN/SN Dated 04-20-2013 And SLB CBL/CCL Dated 05-01-2013. Found And Correlated To Short Joint At 5,354 - 5,392'. Drop Down To Depth, Set CBP At 6,418'. 1,400 Psi.. Bleed Pressure Off Well. POOH. LayDown Tools, WSI And Secured.	
11:00	3.00	14:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.	
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured. Batch Water. Start Moving Frac Tanks.	

5-16D-45 BTR 5/28/2013 06:00 - 5/29/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.	
07:00	1.00	08:00	SRIG	Rig Up/Down	MIRU RIG & EQUIPMENT.	
08:00	2.50	10:30	BOPI	Install BOP's	SIWP- 0. N/D FRAC TREE. N/U BOP & HYDRILL. R/U FLOOR & EQUIPMENT. SPOT CATWALK & PIPE RACKS. LOAD 262 JTS ON RACKS & TALLY TBG.	
10:30	3.50	14:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS, 1 JT 2-7/8 TBG & 2.31 XN- NIPPLE. RIH P/U 2-7/8 L-80 TBG TO KILL PLUG @ 6250'	
14:00	4.00	18:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. TEST CIRC EQUIPMENT & BOPE TO 2500 PSI, HELD. D/O KILL PLUG @ 6260'. FCP- 350 ON 28/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6406'. C/O SAND & D/O CBP @ 6418'. FCP- 300 ON 28/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6744'. C/O SAND & D/O CBP @ 6795'. FCP- 500 ON 26/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 6900'. C/O SAND & D/O CBP @ 7077'. FCP- 300 ON 26/64 CHOKE. CIRC WELL CLEAN. R/D SWIVEL. SDFN. TURN WELL OVER TO FLOW BACK. SDFN.	
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE CREW TRAVEL.	

5-16D-45 BTR 5/29/2013 06:00 - 5/30/2013 06:00

API/UWI 43013512230000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,455.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL	
07:00	3.00	10:00	DOPG	Drill Out Plugs	WELL FLOWING TO PROD, MADE 566 BBLS WTR ON 20/64 CHOKE, FCP 400 PSI. OPEN TO FBT AND CONT D/O PLUGS. CBP #5 AT 7348'. C/O 74' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. CBP #6 AT 7590'. C/O 100' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. CBP #7 AT 7885'. C/O 109' SAND. D/O PLUG IN 5 MIN. FCP 300 PSI ON 26/64 CHOKE. RIH. PBT. C/O 190' SAND TO FC AT 8361'. D/O 15' CMT TO PBT. AT 8376'.	
10:00	1.50	11:30	GOP	General Operations	CIRC HOLE CLEAN. RD PWR SWIVEL	
11:30	1.00	12:30	PULT	Pull Tubing	POOH AS LD 69-JTS TBG.	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
12:30	1.00	13:30	GOP	General Operations	LAND HANGER. RD FLOOR. ND BOP. NU WH. BOPS AT 2000 PSI. PLUMB IN WH. TURN OVER TO FBC AND SALES. TBG DETAIL HANGER 193-JTS 2-7/8" TBG 2.31 XN NIPPLE 1-JTS 2-7/8" TBG POBS.
13:30	1.50	15:00	SRIG	Rig Up/Down	RDSU. RACK OUT EQUIP.
15:00	1.50	16:30	RMOV	Rig Move	ROAD RIG TO 9-10-3-2 TO MOVE IN ON 13-10-3-2 WHEN DONE WITH FRAC.
16:30	13.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURN OVER TO FBC AND SALES.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 14-20-H62-6479	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: 5-16D-45 BTR	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013512230000	
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0678 FNL 1061 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 16 Township: 04.0S Range: 05.0W Meridian: U		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/20/2013 <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 earned"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
This sundry is being submitted to update with the lease earned 14-20-H62-6479.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 20, 2014			
NAME (PLEASE PRINT) Tracey Fallang	PHONE NUMBER 303 312-8134	TITLE Regulatory Manager	
SIGNATURE N/A		DATE 5/13/2014	

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

Effective Date: 11/1/2016

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

WELL INFORMATION:

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

OPERATOR CHANGES DOCUMENTATION:

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

REVIEW:

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

NEW OPERATOR BOND VERIFICATION:

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

DATA ENTRY:

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

COMMENTS:

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

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

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

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

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

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

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



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

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

New Operator Contact information:

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

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

Sincerely,

Bill Barrett Corporation

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

Brady Riley
Permit Analyst

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit In Duplicate) Approximate date work will start: <u>11/1/2016</u>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<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

DIV. OIL GAS & MINING
BY: Rachael Medina

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

Request to Transfer Application or Permit to Drill

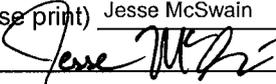
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

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

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

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

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

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

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

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

UIC FORM 5

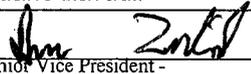
TRANSFER OF AUTHORITY TO INJECT

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

EFFECTIVE DATE OF TRANSFER: 11/1/2016

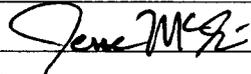
CURRENT OPERATOR

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

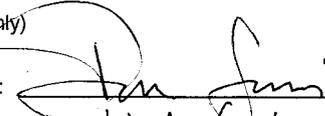
Name: Duane Zavadil
Signature: 
Senior Vice President -
Title: EH&S, Government and Regulatory Affairs
Date: 10/20/16

NEW OPERATOR

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

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

(This space for State use only)

Transfer approved by: 
Title: UIC Geologist

Approval Date: 11/3/16

Comments:

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

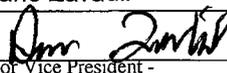
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

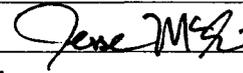
Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by: 
Title: VIC

Approval Date: 11/3/16

Comments:

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

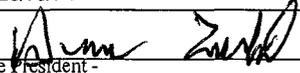
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

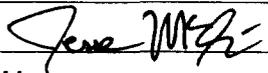
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 9 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by: _____ Approval Date: _____

Title: _____

Comments:

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