

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 9H-4-45 BTR				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT				
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164				
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) 1420H626281			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Uintah and Ouray			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input checked="" type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		2180 FSL 463 FWL		NWSW	4	4.0 S	5.0 W	U		
Top of Uppermost Producing Zone		2150 FSL 1024 FWL		NWSW	4	4.0 S	5.0 W	U		
At Total Depth		1980 FSL 700 FEL		NESE	4	4.0 S	5.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 700			23. NUMBER OF ACRES IN DRILLING UNIT 640				
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1689			26. PROPOSED DEPTH MD: 11297 TVD: 7450				
27. ELEVATION - GROUND LEVEL 5894			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	12.25	9.625	0 - 2700	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	190	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
Prod	8.75	7	0 - 7748	23.0	P-110 LT&C	9.4	Unknown	300	2.31	11.0
							Unknown	370	1.42	13.5
L1	6.125	4.5	0 - 11297	11.6	P-110 LT&C	9.5	No Used	0	0.0	0.0
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Venessa Langmacher			TITLE Senior Permit Analyst			PHONE 303 312-8172				
SIGNATURE			DATE 11/29/2011			EMAIL vlangmacher@billbarrettcorp.com				
API NUMBER ASSIGNED 43013510920000			APPROVAL			 Permit Manager				

DRILLING PLAN

BILL BARRETT CORPORATION
 9H-4-45 BTR
 SHL: NW SW, 2180' FSL and 463' FWL, Section 4-T4S-R5W
 BHL: NE SE, 1980' FSL and 700' FEL, Section 4-T4S-R5W
 Duchesne Co., UT

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

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

HORIZONTAL LEG FFORMATION TOPS

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth - TVD</u>
Green River	2,955'	2,955'
Mahogany	3,665'	3,665'
TGR3	5,080'	5,080'
Douglas Creek	5,975'	5,975'
3 PT Marker	6,385'	6,385'
Black Shale Facies	6,820'	6,820'
Castle Peak	7,028'	7,025'
*Uteland Butte	7,450'	7,347'
*CR1	7,612'	7,408'
TD	11,297'	7,450'

*PROSPECTIVE PAY

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

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>					
12-1/4"	surface	2,700'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	7,748'	7"	23.0 ppf	P-110	LT&C	New
6 1/8"	surface	11,297'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6	P-110	LT&C	New

Drilling Plan
9H-4-45 BTR
Duchesne Co., UT

5. Cementing Program

9 5/8" Surface Casing	Cement with approximately 190 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx), and tail with 210 sx Premium 14.8 ppg (yield = 1.36 ft ³ /sx) calculated hole volume with 75% excess. <i>Top out cement</i> , if required: 100 sx of Premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft ³ /sk)
7" Intermediate Casing	<i>Lead</i> with approximately 300 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft ³ /sx). <i>Tail</i> with approximately 370 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx).
4 1/2" Liner with 4-1/2" Tieback to surface	<i>No cement will be used in this section. Swell packers will be run to isolate the production hole from the intermediate casing section.</i>
Note: Top of Tail cement for the intermediate string will be calculated to 1000' above the KOP using gauge hole plus 50% excess. Lead to 200' inside of surface casing.	

6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
40' – 1,500'	8.4 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,500' – 2,700'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
2,700' – 7,748'	9.2 – 9.4	42 – 55	6 – 10	Fresh Water PHPA
7,748' – TD	9.0 – 9.5	45 – 58	4 – 10	Fresh Water PHPA
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 2,700'	No pressure control required
2,700' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary and choke manifold to be rated @ 5000 psi;	
- Ancillary equipment and choke manifold rated at 5,000#. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up to operate most efficiently in this manner.	

Drilling Plan
 9H-4-45 BTR
 Duchesne Co., UT

8. Auxiliary Equipment

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

9. Testing, Logging and Core Programs

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

10. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3680 psi* and maximum anticipated surface pressure equals approximately 2041 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

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

11. Location and Type of Water Supply

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

12. Drilling Schedule

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

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

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Burst

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

Tension:

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

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

Non-directional string.

Re subsequent strings:

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

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

Bill Barrett

Date: June 23,2011
 Denver, Colorado

Remarks:

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

Burst strength is not adjusted for tension.

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

Design parameters:

Collapse

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

Burst

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

Annular backup: 9.50 ppg

Minimum design factors:

Collapse:

Design factor: 1.125

Burst:

Design factor: 1.00

Tension:

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

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

Environment:

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

Directional Info - Build & Hold

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

Re subsequent strings:

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

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

Bill Barrett

Date: June 23,2011
Denver, Colorado

Remarks:

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

Burst strength is not adjusted for tension.

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

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

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Burst

Max anticipated surface pressure: 1,572 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 2,837 psi
 Annular backup: 9.50 ppg

Tension:

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

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

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

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

Bill Barrett

Date: June 23,2011
 Denver, Colorado

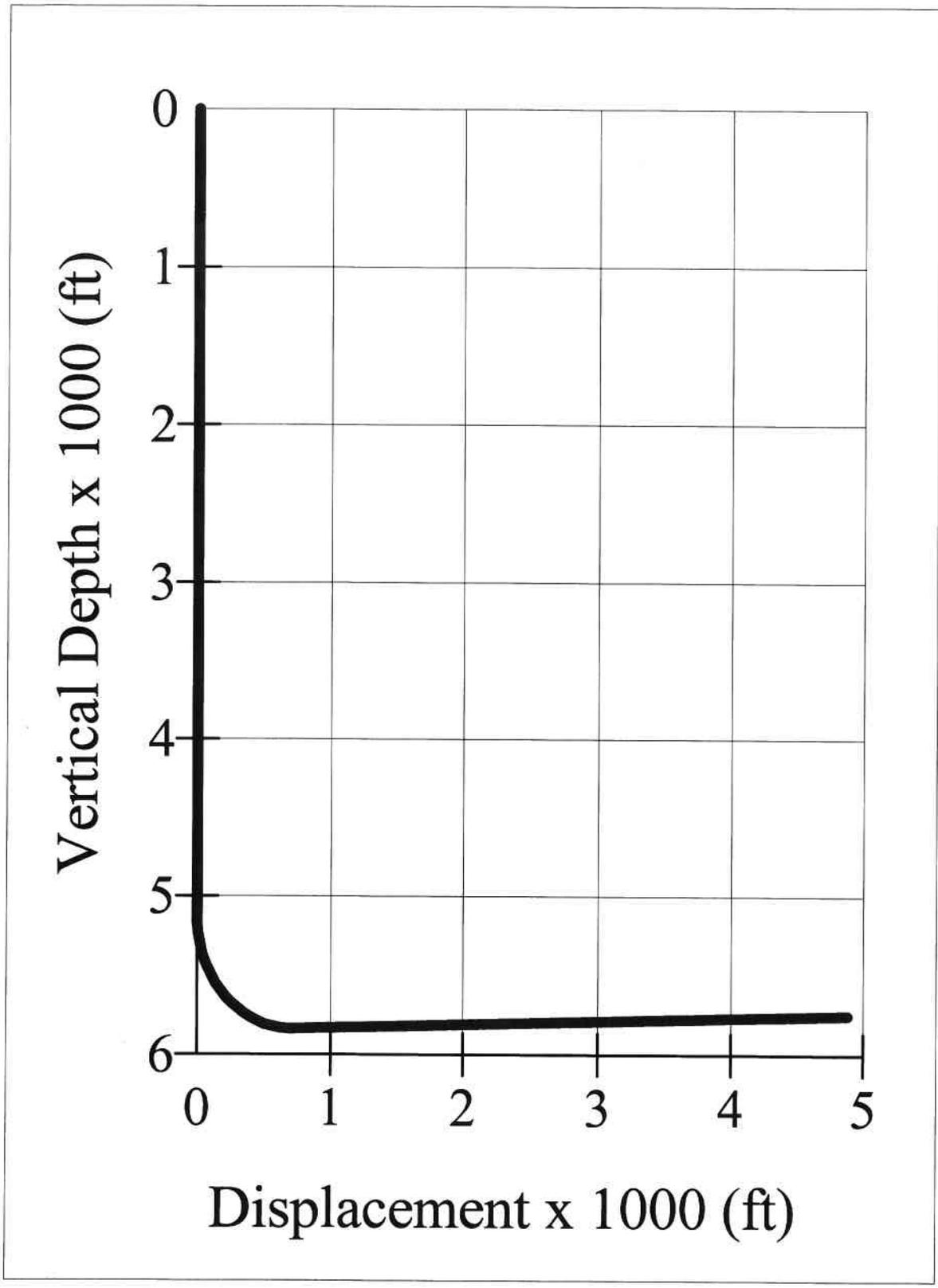
Remarks:

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

Burst strength is not adjusted for tension.

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

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



PRESSURE CONTROL EQUIPMENT – Schematic Attached

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

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

B. Pressure Rating: 5,000 psi

C. Testing Procedure:

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

D. Choke Manifold Equipment:

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

E. Accumulator:

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

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

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

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

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

F. Miscellaneous Information:

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

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

BILL BARRETT CORPORATION

Well location, #9H-4-45 BTR, located as shown in the NW 1/4 SW 1/4 of Section 4, 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.



S C A L E
C E R T I F I C A T E

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

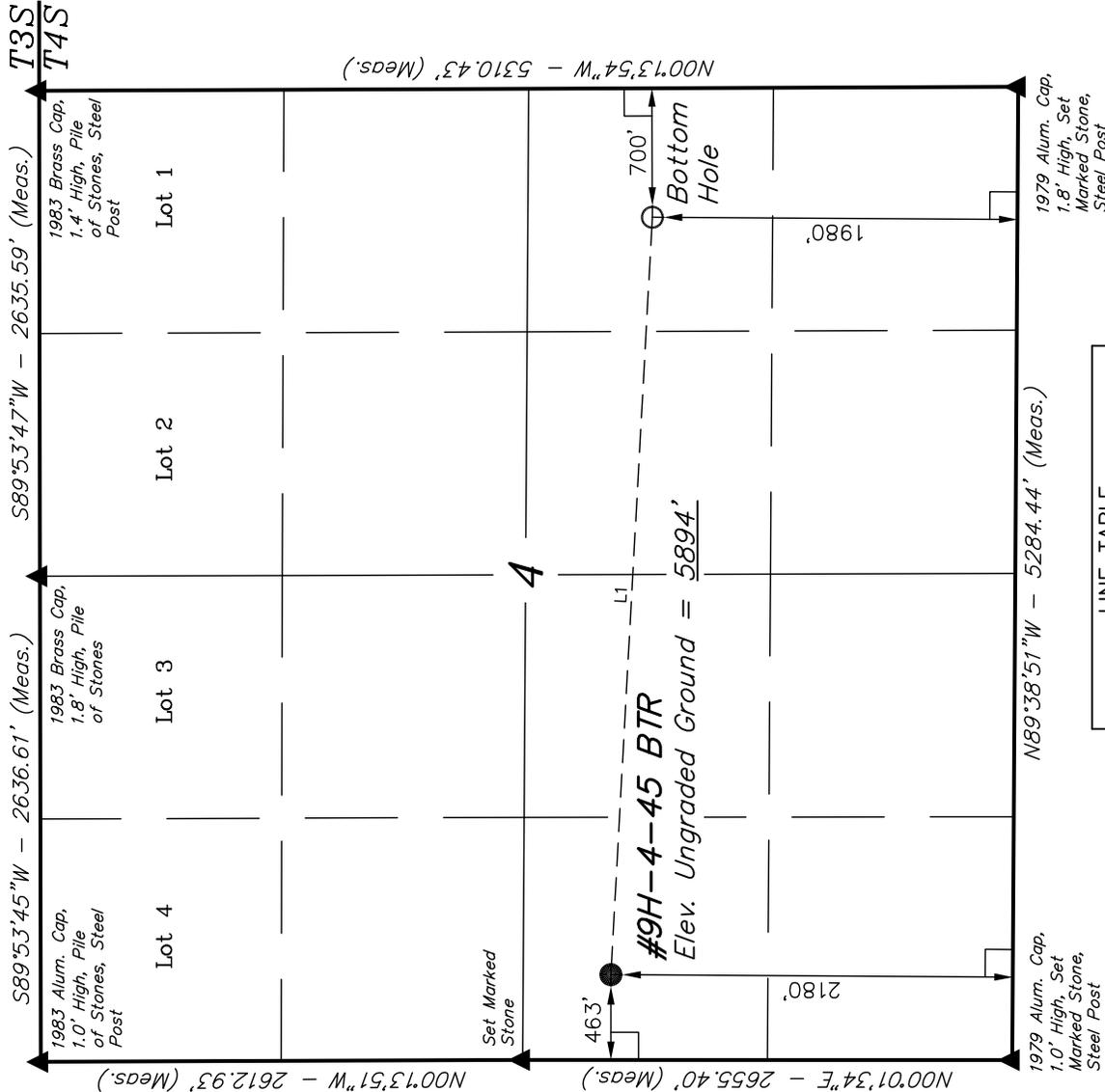
Robert L. Kay
ROBERT L. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH DATE 08-30-11

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE	1" = 1000'	DATE SURVEYED:	07-22-11	DATE DRAWN:	08-08-11
PARTY	T.A. C.N. S.B.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	BILL BARRETT CORPORATION		

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

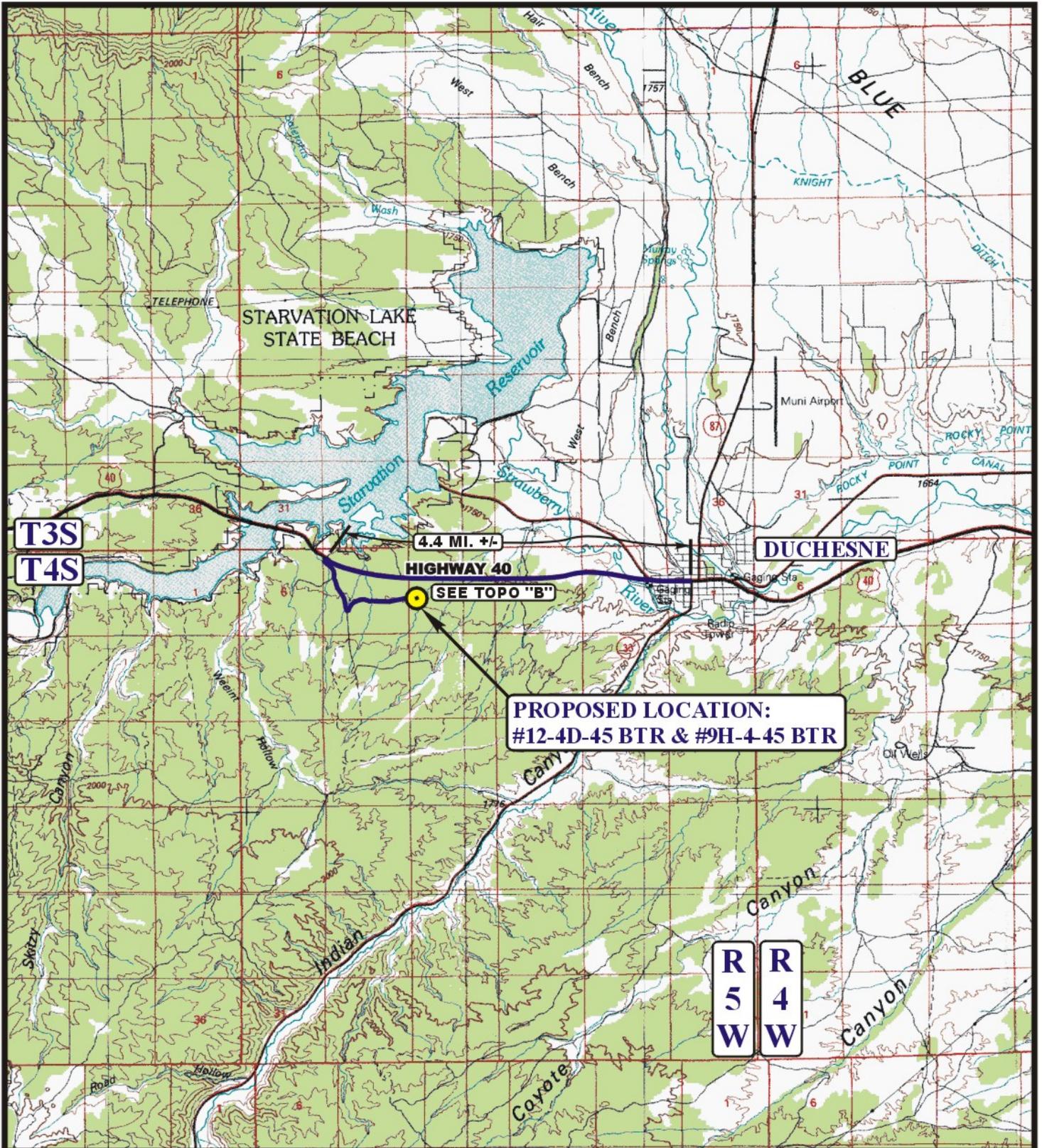


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	S86°52'08\"E	4118.51'

LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)		NAD 83 (SURFACE LOCATION)	
LATITUDE =	40°09'36.88" (40.160244)	LATITUDE =	40°09'39.05" (40.160847)
LONGITUDE =	110°26'53.91" (110.448308)	LONGITUDE =	110°27'46.87" (110.463019)
NAD 27 (TARGET BOTTOM HOLE)		NAD 27 (SURFACE LOCATION)	
LATITUDE =	40°09'37.03" (40.160286)	LATITUDE =	40°09'39.20" (40.160889)
LONGITUDE =	110°26'51.35" (110.447597)	LONGITUDE =	110°27'44.31" (110.462508)



**PROPOSED LOCATION:
#12-4D-45 BTR & #9H-4-45 BTR**

LEGEND:

 PROPOSED LOCATION



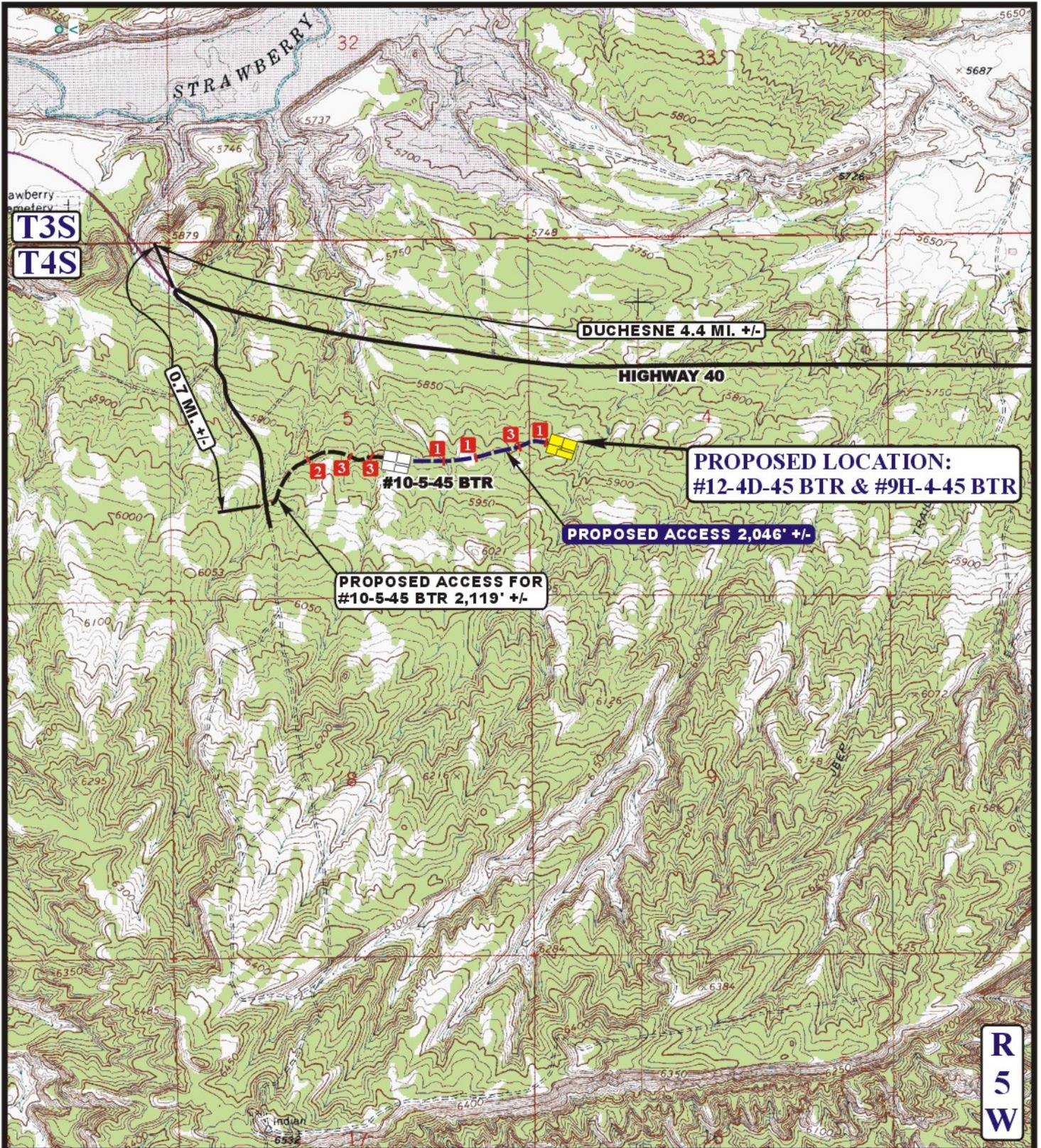
BILL BARRETT CORPORATION

**#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4**



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

ACCESS ROAD MAP	01 07 11 MONTH DAY YEAR	
SCALE: 1:100,000	DRAWN BY: J.J. REV: 07-27-11 C.I.	



LEGEND:

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



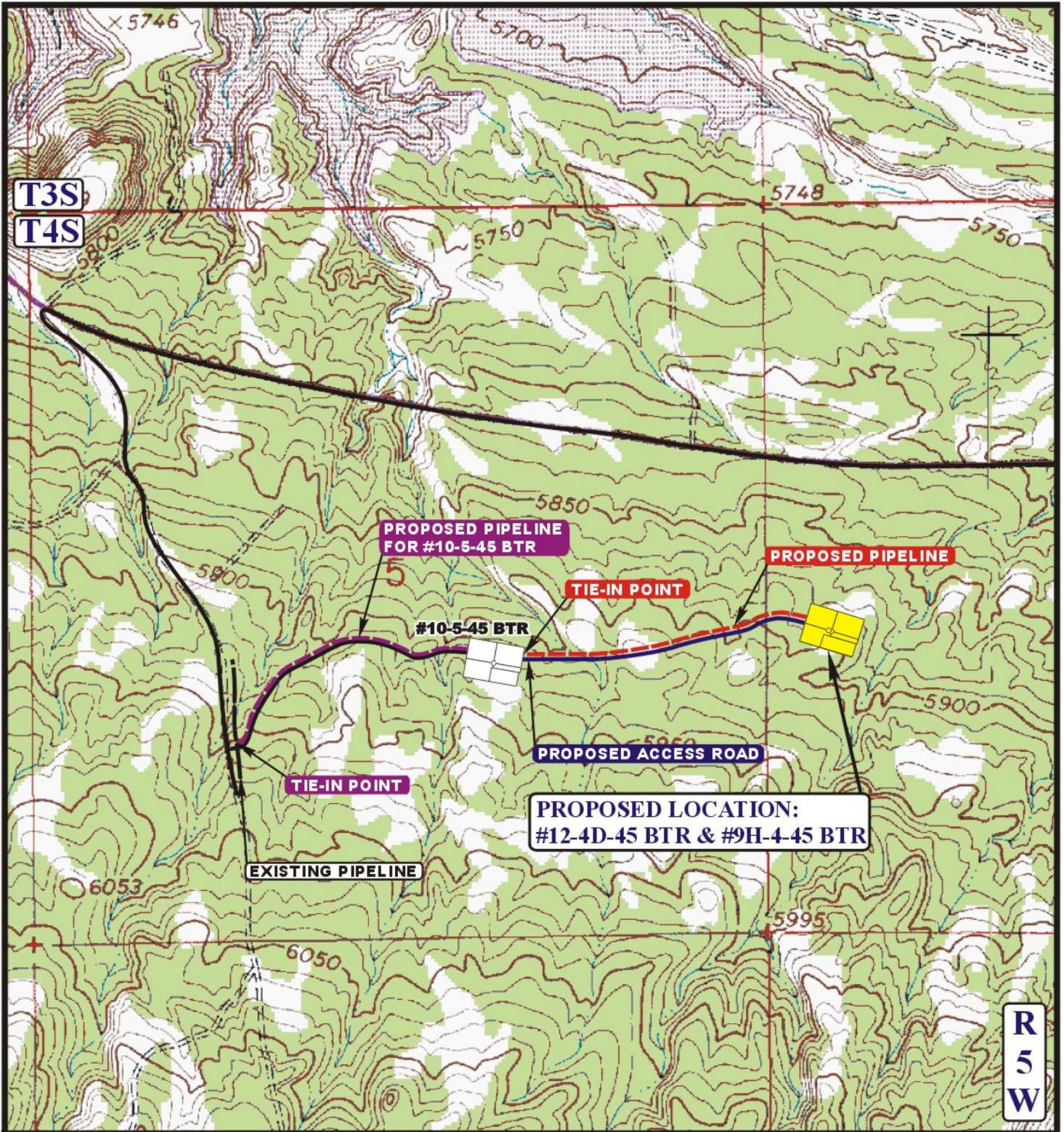
Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



BILL BARRETT CORPORATION

#12-4D-45 BTR & #9H-4-45 BTR
 SECTION 4, T4S, R5W, U.S.B.&M.
 NW 1/4 SW 1/4

ACCESS ROAD MAP	01	07	11	B TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: J.J.		REV: 07-27-11 C.I.	



APPROXIMATE TOTAL PIPELINE DISTANCE = 2,049' +/-

LEGEND:

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

BILL BARRETT CORPORATION

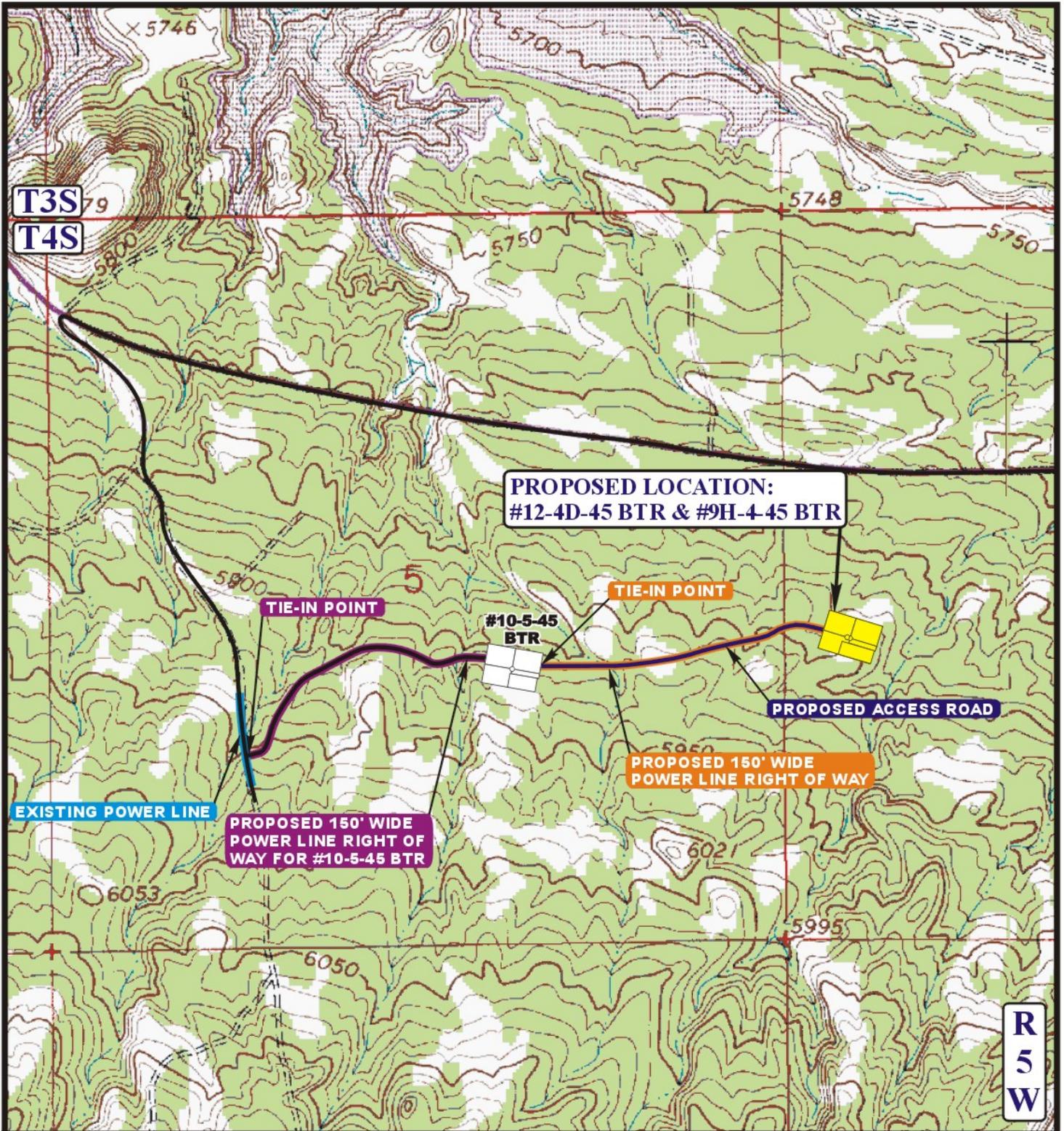
**#12-4D-45 BTR & #9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4**

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



TOPOGRAPHIC MAP 01 07 11
MONTH DAY YEAR
SCALE: 1" = 1000' DRAWN BY: J.J. REV: 07-27-11 C.I.





APPROXIMATE TOTAL POWER LINE DISTANCE = 2,046' +/-

LEGEND:

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

BILL BARRETT CORPORATION

#12-4D-45 BTR & #9H-4 45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4



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



TOPOGRAPHIC
MAP

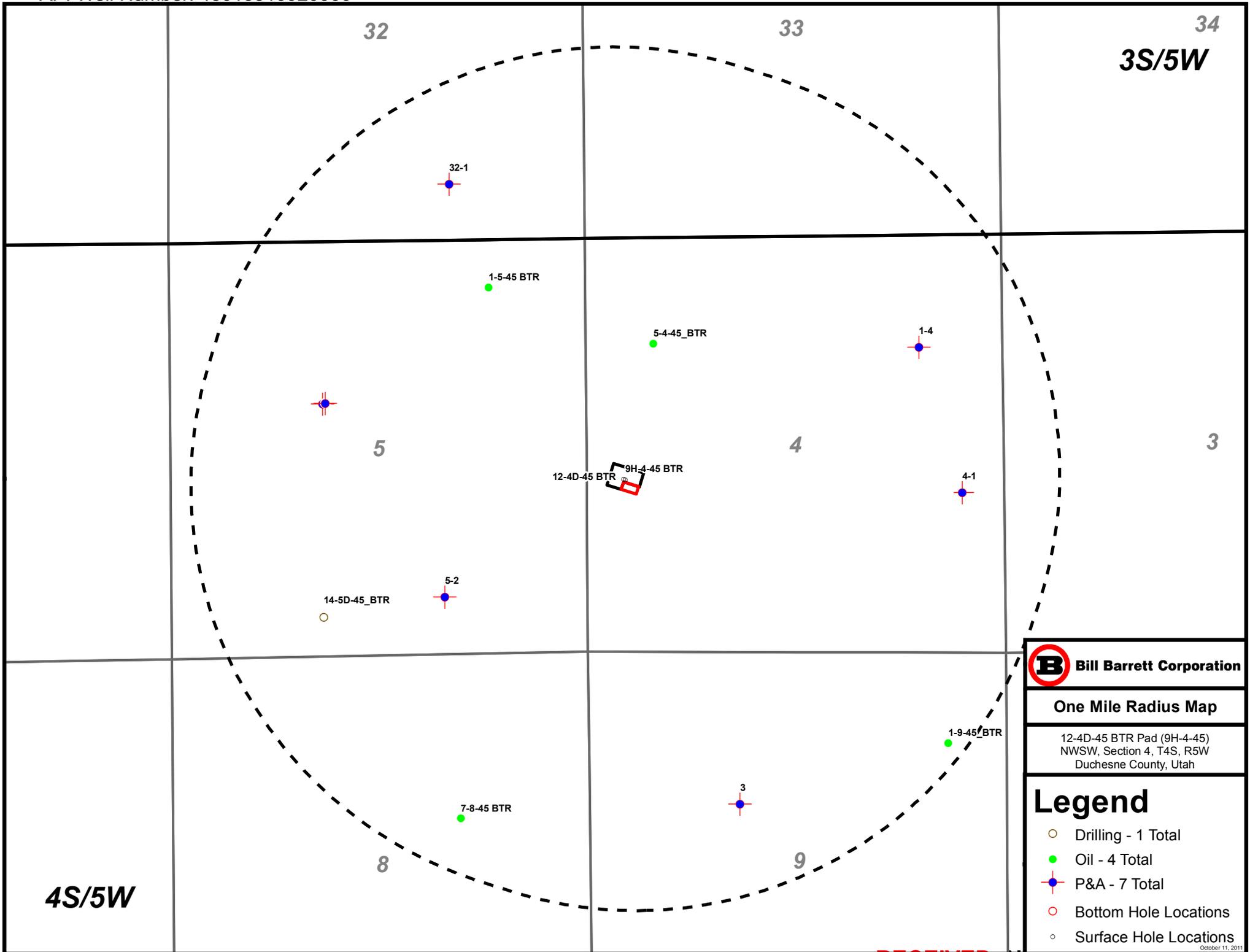
01 07 11
MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: J.J.

REV: 07-27-11 C.I.

D
TOPO



B Bill Barrett Corporation

One Mile Radius Map

12-4D-45 BTR Pad (9H-4-45)
 NWSW, Section 4, T4S, R5W
 Duchesne County, Utah

Legend

- Drilling - 1 Total
- Oil - 4 Total
- P&A - 7 Total
- Bottom Hole Locations
- Surface Hole Locations

4S/5W

3S/5W



SITE DETAILS: 9H-4-45 BTR

Blacktail Ridge

Site Centre Latitude: 40° 9' 39.200 N
Longitude: 110° 27' 44.309 W

Positional Uncertainty: 0.0
Convergence: 0.66
Local North: True

COMPANY DETAILS: BILL BARRETT CORP

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

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
9H-4-45 PBHL	7450.0	-219.3	4111.6	40° 9' 37.030 N	110° 26' 51.349 W	Rectangle (Sides: L200.0 W200.0)

SECTION DETAILS

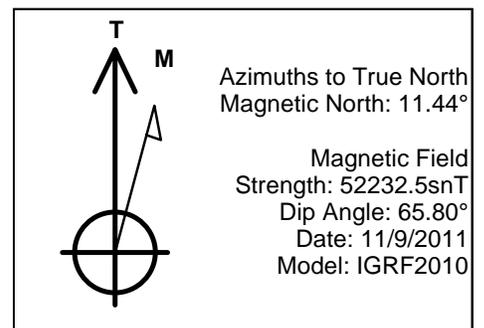
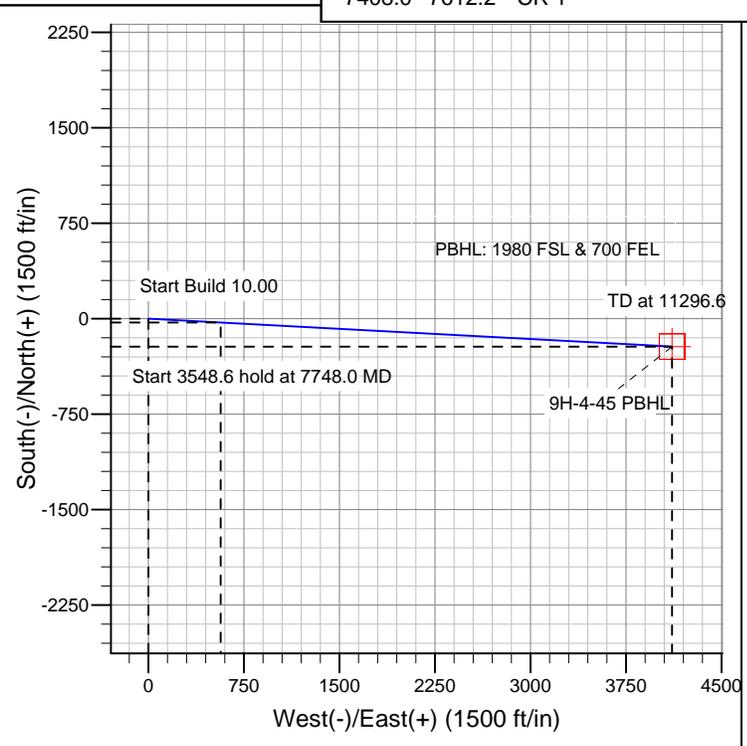
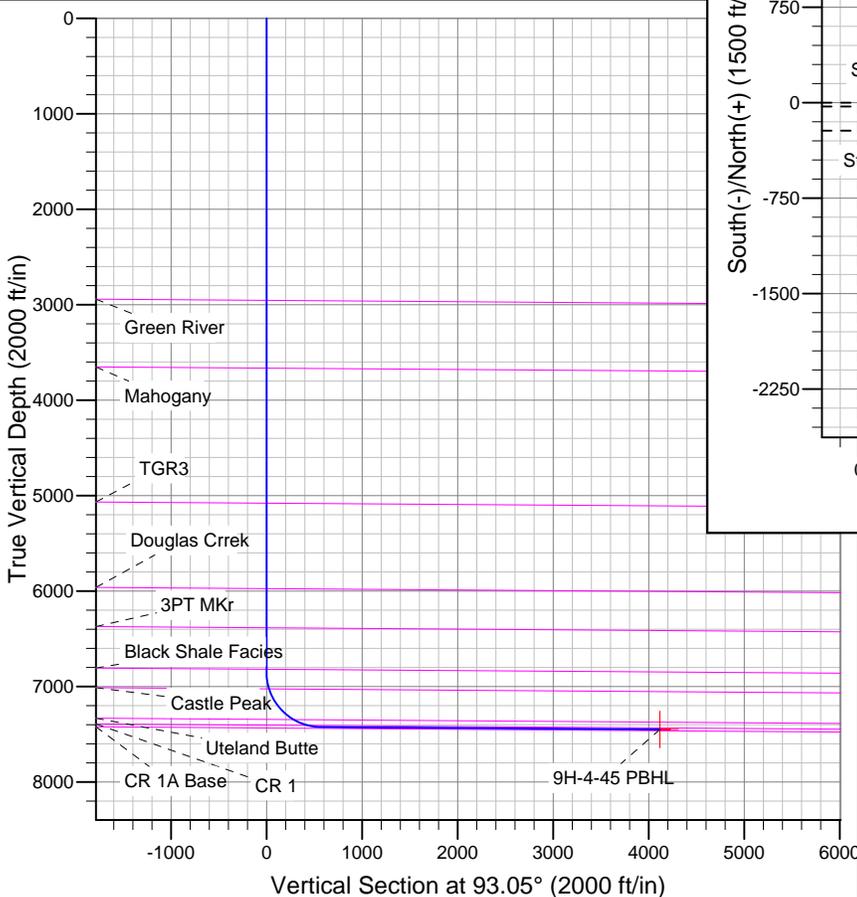
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	6852.0	0.00	0.00	6852.0	0.0	0.0	0.00	0.00	0.0	
3	7748.0	89.60	93.05	7425.0	-30.3	568.1	10.00	93.05	568.9	
4	11296.6	89.60	93.05	7450.0	-219.3	4111.6	0.00	0.00	4117.4	
5	11296.6	0.00	0.00	7450.0	-219.3	4111.6	0.00	180.00	4117.4	9H-4-45 PBHL

FORMATION TOP DETAILS

TVDP	MD	Formation
2955.0	2955.0	CR 1A Base
3665.0	3665.0	Green River
5080.0	5080.0	Mahogany
5975.0	5975.0	TGR3
6385.0	6385.0	Douglas Crrek
6820.0	6820.0	3PT MKr
7025.2	7027.9	Black Shale Facies
7347.0	7449.5	Castle Peak
7408.0	7612.2	Uteland Butte
		CR 1

CASING DETAILS

No casing data is available



BILL BARRETT CORP

DUCHESNE COUNTY, UT (NAD 27)

9H-4-45 BTR

9H-4-45 BTR

9H-4-45 BTR

Plan: Design #1

Standard Planning Report

11 November, 2011

Bill Barrett Corp
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 9H-4-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	9H-4-45 BTR	North Reference:	True
Well:	9H-4-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	9H-4-45 BTR		
Design:	Design #1		

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

Site	9H-4-45 BTR				
Site Position:		Northing:	667,331.65 ft	Latitude:	40° 9' 39.200 N
From:	Lat/Long	Easting:	2,290,015.93 ft	Longitude:	110° 27' 44.309 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	0.66 °

Well	9H-4-45 BTR					
Well Position	+N/-S	0.0 ft	Northing:	667,331.64 ft	Latitude:	40° 9' 39.200 N
	+E/-W	0.0 ft	Easting:	2,290,015.93 ft	Longitude:	110° 27' 44.309 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	5,894.0 ft

Wellbore	9H-4-45 BTR				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/9/2011	11.44	65.80	52,233

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	93.05

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
6,852.0	0.00	0.00	6,852.0	0.0	0.0	0.00	0.00	0.00	0.00	
7,748.0	89.60	93.05	7,425.0	-30.3	568.1	10.00	10.00	0.00	93.05	
11,296.6	89.60	93.05	7,450.0	-219.3	4,111.6	0.00	0.00	0.00	0.00	
11,296.6	0.00	0.00	7,450.0	-219.3	4,111.6	0.00	0.00	0.00	180.00	9H-4-45 PBHL

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 9H-4-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	9H-4-45 BTR	North Reference:	True
Well:	9H-4-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	9H-4-45 BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,955.0	0.00	0.00	2,955.0	0.0	0.0	0.0	0.00	0.00	0.00
Green River									
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,665.0	0.00	0.00	3,665.0	0.0	0.0	0.0	0.00	0.00	0.00
Mahogany									
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00

Bill Barrett Corp
Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 9H-4-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	9H-4-45 BTR	North Reference:	True
Well:	9H-4-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	9H-4-45 BTR		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,080.0	0.00	0.00	5,080.0	0.0	0.0	0.0	0.00	0.00	0.00
TGR3									
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,975.0	0.00	0.00	5,975.0	0.0	0.0	0.0	0.00	0.00	0.00
Douglas Crrek									
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00
6,385.0	0.00	0.00	6,385.0	0.0	0.0	0.0	0.00	0.00	0.00
3PT MKr									
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00
6,820.0	0.00	0.00	6,820.0	0.0	0.0	0.0	0.00	0.00	0.00
Black Shale Facies									
6,852.0	0.00	0.00	6,852.0	0.0	0.0	0.0	0.00	0.00	0.00
6,900.0	4.79	93.05	6,899.9	-0.1	2.0	2.0	10.00	10.00	0.00
7,000.0	14.79	93.05	6,998.4	-1.0	19.0	19.0	10.00	10.00	0.00
7,027.9	17.59	93.05	7,025.2	-1.4	26.7	26.8	10.00	10.00	0.00
Castle Peak									
7,100.0	24.79	93.05	7,092.3	-2.8	52.7	52.8	10.00	10.00	0.00
7,200.0	34.79	93.05	7,179.0	-5.5	102.3	102.4	10.00	10.00	0.00
7,300.0	44.79	93.05	7,255.7	-8.9	166.1	166.4	10.00	10.00	0.00
7,400.0	54.79	93.05	7,320.2	-12.9	242.3	242.6	10.00	10.00	0.00
7,449.5	59.75	93.05	7,347.0	-15.1	283.9	284.3	10.00	10.00	0.00
Uteland Butte									
7,500.0	64.79	93.05	7,370.5	-17.5	328.5	329.0	10.00	10.00	0.00
7,600.0	74.79	93.05	7,405.0	-22.5	422.1	422.7	10.00	10.00	0.00
7,612.2	76.02	93.05	7,408.0	-23.1	433.9	434.5	10.00	10.00	0.00
CR 1									
7,700.0	84.79	93.05	7,422.6	-27.7	520.2	521.0	10.00	10.00	0.00
7,748.0	89.60	93.05	7,425.0	-30.3	568.1	568.9	10.00	10.00	0.00
7,800.0	89.60	93.05	7,425.4	-33.1	620.0	620.9	0.00	0.00	0.00
7,900.0	89.60	93.05	7,426.1	-38.4	719.9	720.9	0.00	0.00	0.00
8,000.0	89.60	93.05	7,426.8	-43.7	819.7	820.9	0.00	0.00	0.00
8,100.0	89.60	93.05	7,427.5	-49.0	919.6	920.9	0.00	0.00	0.00
8,200.0	89.60	93.05	7,428.2	-54.4	1,019.4	1,020.9	0.00	0.00	0.00
8,300.0	89.60	93.05	7,428.9	-59.7	1,119.3	1,120.9	0.00	0.00	0.00
8,400.0	89.60	93.05	7,429.6	-65.0	1,219.2	1,220.9	0.00	0.00	0.00
8,500.0	89.60	93.05	7,430.3	-70.4	1,319.0	1,320.9	0.00	0.00	0.00
8,600.0	89.60	93.05	7,431.0	-75.7	1,418.9	1,420.9	0.00	0.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Well 9H-4-45 BTR
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 5909.0ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT (NAD 27)	MD Reference:	KB @ 5909.0ft (Original Well Elev)
Site:	9H-4-45 BTR	North Reference:	True
Well:	9H-4-45 BTR	Survey Calculation Method:	Minimum Curvature
Wellbore:	9H-4-45 BTR		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,700.0	89.60	93.05	7,431.7	-81.0	1,518.7	1,520.9	0.00	0.00	0.00	
8,800.0	89.60	93.05	7,432.4	-86.3	1,618.6	1,620.9	0.00	0.00	0.00	
8,900.0	89.60	93.05	7,433.1	-91.7	1,718.4	1,720.9	0.00	0.00	0.00	
9,000.0	89.60	93.05	7,433.8	-97.0	1,818.3	1,820.9	0.00	0.00	0.00	
9,100.0	89.60	93.05	7,434.5	-102.3	1,918.1	1,920.9	0.00	0.00	0.00	
9,200.0	89.60	93.05	7,435.2	-107.6	2,018.0	2,020.9	0.00	0.00	0.00	
9,300.0	89.60	93.05	7,435.9	-113.0	2,117.9	2,120.9	0.00	0.00	0.00	
9,400.0	89.60	93.05	7,436.6	-118.3	2,217.7	2,220.9	0.00	0.00	0.00	
9,500.0	89.60	93.05	7,437.3	-123.6	2,317.6	2,320.9	0.00	0.00	0.00	
9,600.0	89.60	93.05	7,438.0	-128.9	2,417.4	2,420.9	0.00	0.00	0.00	
9,700.0	89.60	93.05	7,438.7	-134.3	2,517.3	2,520.9	0.00	0.00	0.00	
9,800.0	89.60	93.05	7,439.5	-139.6	2,617.1	2,620.9	0.00	0.00	0.00	
9,900.0	89.60	93.05	7,440.2	-144.9	2,717.0	2,720.9	0.00	0.00	0.00	
10,000.0	89.60	93.05	7,440.9	-150.2	2,816.8	2,820.9	0.00	0.00	0.00	
10,100.0	89.60	93.05	7,441.6	-155.6	2,916.7	2,920.8	0.00	0.00	0.00	
10,200.0	89.60	93.05	7,442.3	-160.9	3,016.6	3,020.8	0.00	0.00	0.00	
10,300.0	89.60	93.05	7,443.0	-166.2	3,116.4	3,120.8	0.00	0.00	0.00	
10,400.0	89.60	93.05	7,443.7	-171.6	3,216.3	3,220.8	0.00	0.00	0.00	
10,500.0	89.60	93.05	7,444.4	-176.9	3,316.1	3,320.8	0.00	0.00	0.00	
10,600.0	89.60	93.05	7,445.1	-182.2	3,416.0	3,420.8	0.00	0.00	0.00	
10,700.0	89.60	93.05	7,445.8	-187.5	3,515.8	3,520.8	0.00	0.00	0.00	
10,800.0	89.60	93.05	7,446.5	-192.9	3,615.7	3,620.8	0.00	0.00	0.00	
10,900.0	89.60	93.05	7,447.2	-198.2	3,715.5	3,720.8	0.00	0.00	0.00	
11,000.0	89.60	93.05	7,447.9	-203.5	3,815.4	3,820.8	0.00	0.00	0.00	
11,100.0	89.60	93.05	7,448.6	-208.8	3,915.3	3,920.8	0.00	0.00	0.00	
11,200.0	89.60	93.05	7,449.3	-214.2	4,015.1	4,020.8	0.00	0.00	0.00	
11,296.6	0.00	0.00	7,450.0	-219.3	4,111.6	4,117.4	92.73	-92.73	0.00	
9H-4-45 PBHL										

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,955.0	2,955.0	Green River		0.40	93.05	
3,665.0	3,665.0	Mahogany		0.40	93.05	
5,080.0	5,080.0	TGR3		0.40	93.05	
5,975.0	5,975.0	Douglas Crrek		0.40	93.05	
6,385.0	6,385.0	3PT MKr		0.40	93.05	
6,820.0	6,820.0	Black Shale Facies		0.40	93.05	
7,027.9	7,025.0	Castle Peak		0.40	93.05	
7,449.5	7,345.0	Uteland Butte		0.40	93.05	
7,612.2	7,405.0	CR 1		0.40	93.05	
	7,435.0	CR 1A Base		0.40	93.05	

SURFACE USE PLAN**BILL BARRETT CORPORATION**
12-4D-45 BTR & 9H-4-45 BTR Well Pad
Duchesne County, Utah

<u>12-4D-45 BTR</u>	<u>9H-4-45 BTR</u>
NW SW, 2184' FSL & 448' FWL, Sec. 4, T4S-R5W (surface hole) NW SW, 1980' FSL & 810' FWL, Sec. 4, T4S-R5W (bottom hole)	NW SW, 2180' FSL & 463' FWL, Sec. 4, T4S-R5W (surface hole) NE SE, 1980' FSL & 700' FEL, Sec. 4, T4S-R5W (bottom hole)

The onsite inspection for this pad occurred on October 14, 2011. This is a new pad with a total of two proposed wells. No site specific conditions or changes were received as a result of the onsite, with no plat changes requested.

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 pad is located approximately 5.9 miles west of Duchesne, Utah. Maps and directions reflecting the route to the proposed well pad are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized from Duchesne for 4.4 miles to the existing BBC maintained 16-7-45 BTR access road that would be utilized for 0.7 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
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

2. Planned Access Road:
 - a. Approximately 2,046 feet of new access road trending east is planned from the proposed 10-5-45 BTR access road. The 10-5-45 BTR access has been applied for and continues an additional 2,119 feet to the existing 16-7-45 BTR access road (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 pad.
 - 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
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

- i. Three 18" culverts, one 24" culvert and three 36" culverts are proposed along the proposed access road. 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 one
 - v. temp shut-in wells none
 - vi. producing wells four
 - vii. abandoned wells seven
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.

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Duchesne County, UT

If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by electricity.

- 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 2,049 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 west to the proposed 10-5-45 BTR pipeline corridor. The 10-5-45 BTR pipeline corridor has been applied for and continues 2,122 feet to the existing pipeline corridor for the 16-7-45 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 pad 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.

Bill Barrett Corporation
 Surface Use Plan
 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

- j. All permanent above-ground structures would be painted a flat, non-reflective Beetle Green color, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The pad would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

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

Water Right No. and Application or Change No.	Applicant	Allocation	Date	Point of Diversion	Source
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfr and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations for each well.

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 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

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 wells other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

Disposal Facilities
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W

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 Duchesne County, UT

Disposal Facilities
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.
- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA’s Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO₂ gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110 feet from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels,

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#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

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 2,046 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 Pad Layout:

- a. Each 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 384 feet x 285 feet with an inboard reserve pit size of 226 feet x 100 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.

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Duchesne County, UT

- 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 pad to prevent surface waters from entering the well pad 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. Pad 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 pad by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
 - d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
 - e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization.

Bill Barrett Corporation
 Surface Use Plan
 #12-4D-45 BTR & #9H-4-45 BTR Pad
 Duchesne County, UT

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

11. Surface and Mineral Ownership:

- a. Surface & mineral ownership – Ute Indian Tribe - 988 South 7500 East; 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 as MOAC Report No. 10-256 dated May 24, 2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.

- c. Project personnel and contractors would be educated on and subject to the following requirements:

- No dogs or firearms within the Project Area.
- No littering within the Project Area.
- Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
- Campfires or uncontained fires of any kind would be prohibited.
- Portable generators used in the Project Area would have spark arrestors.

- d. Disturbance estimates:

Approximate Acreage Disturbances

Well Pad		3.461	acres
Access	2046 feet	1.409	acres
Pipeline	2049 feet	1.411	acres
Powerline	2046 feet	7.046	acres
	Total	13.327	acres

Bill Barrett Corporation
Surface Use Plan
#12-4D-45 BTR & #9H-4-45 BTR Pad
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

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

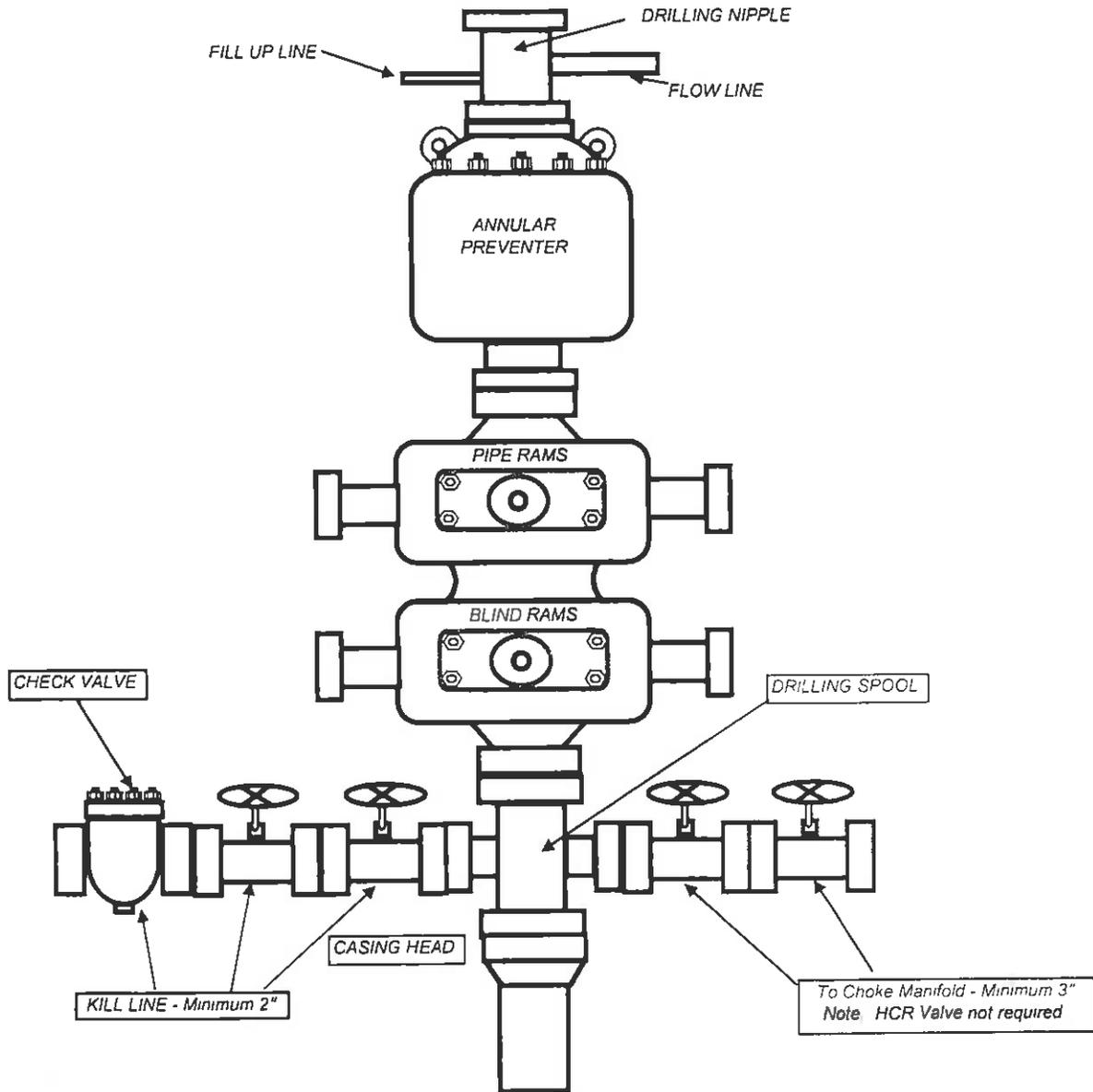
Executed this	5 th day of November 2011
Name:	Venessa Langmacher
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Venessa Langmacher, Senior Permit Analyst

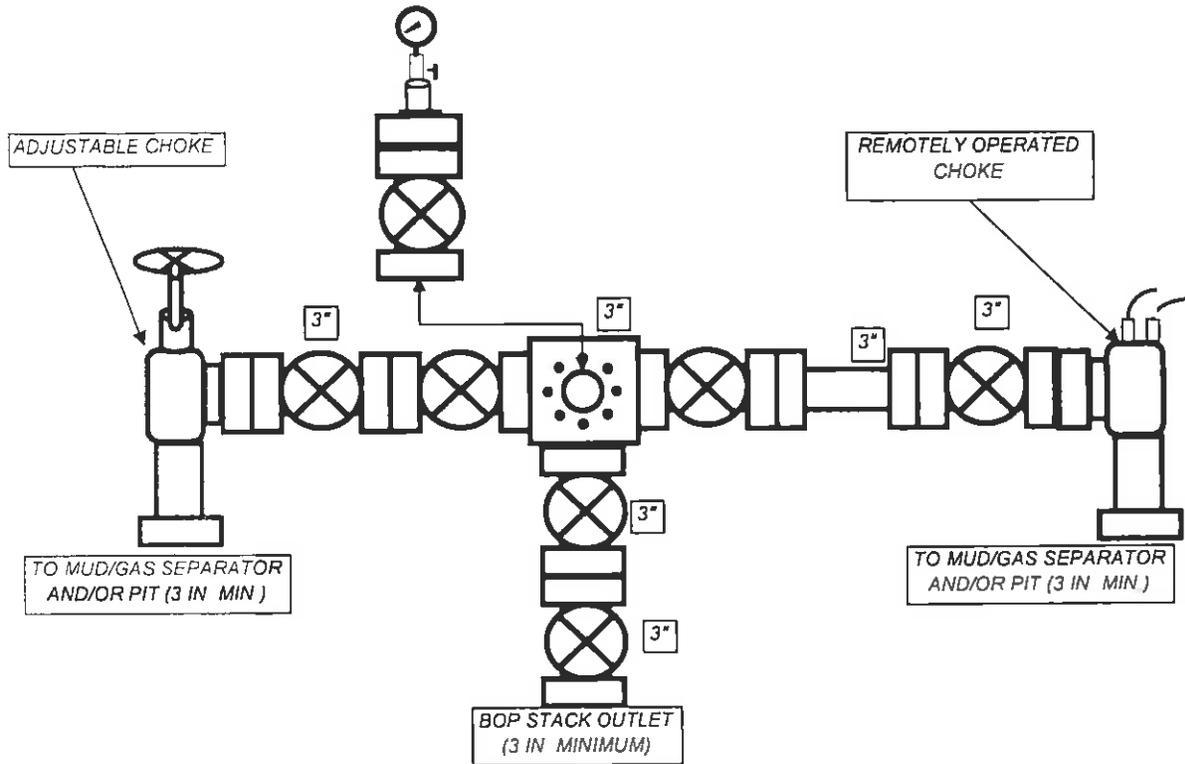
BILL BARRETT CORPORATION

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



BILL BARRETT CORPORATION

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





November 29, 2011

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

**RE: Horizontal Drilling
#9H-4-45 BTR
Section 4, T4S-R5W, U.S.B.&M.
Duchesne County, Utah**

**Surface Hole Location: 2,180' FSL & 463' FWL, NWSW, 4-T4S-R5W, USB&M
Bottom Hole Location: 1,980' FSL & 700' FEL, NESE, 4-T4S-R5W, USB&M**

Dear Ms. Mason:

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill ("APD") regarding the above-referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-2 pertaining to a temporary 640 acre spacing unit for a horizontal well.

- Tribal Exploration and Development Agreement #14-20-H62-6281, which includes all of the subject Section 8 and other lands, allows for the drilling of the #9H-4-45 well.
- Once the well has been completed BBC will earn the tribal lease covering 640 "deep depth" acres being further described in the Exploration and Development Agreement.
- The #9H-4-45 BTR will be perforated no less than 640 feet from the Section 4 Tribal Lease boundary, in accordance with R649-3-2(3).

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-2. If you should have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

BILL BARRETT CORPORATION

A handwritten signature in blue ink that reads 'Venessa Sangmacker'. Below the signature, the word 'for' is written in a smaller, cursive script.

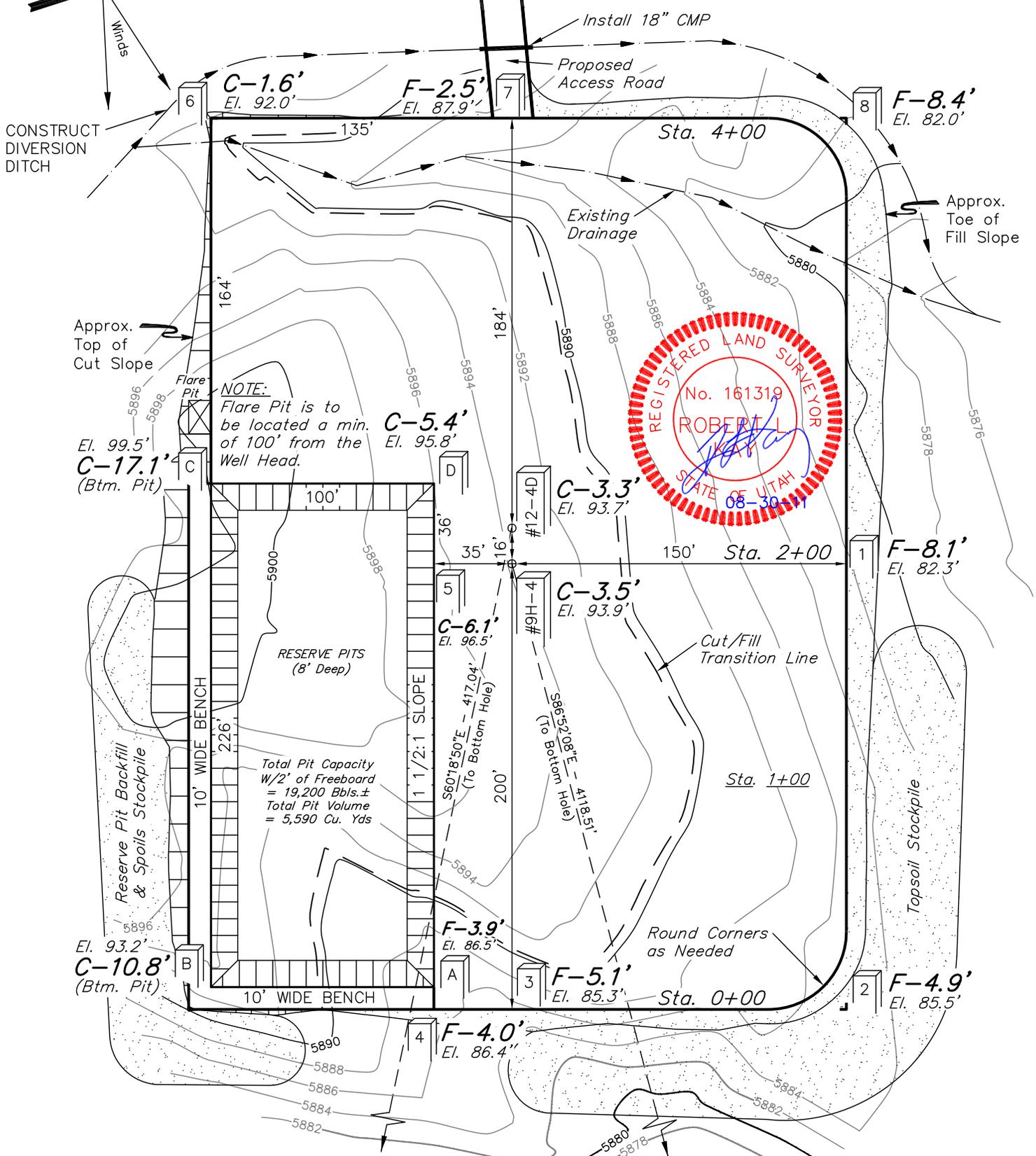
David Watts
Landman

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

BILL BARRETT CORPORATION
 LOCATION LAYOUT FOR
 #12-4D-45 BTR & 9H-4-45 BTR
 SECTION 4, T4S, R5W, U.S.B.&M.
 NW 1/4 SW 1/4

FIGURE #1

SCALE: 1" = 60'
 DATE: 01-25-11
 DRAWN BY: S.B.
 REV: 05-05-11
 REV: 08-08-11



Elev. Ungraded Ground At #9H-4 Loc. Stake = **5893.9'**
 FINISHED GRADE ELEV. AT #9H-4 LOC. STAKE = **5890.4'**

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

RECEIVED: November 29, 2011

BILL BARRETT CORPORATION

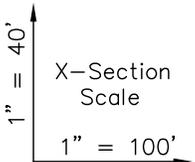
TYPICAL CROSS SECTIONS FOR

#12-4D-45 BTR & 9H-4-45 BTR

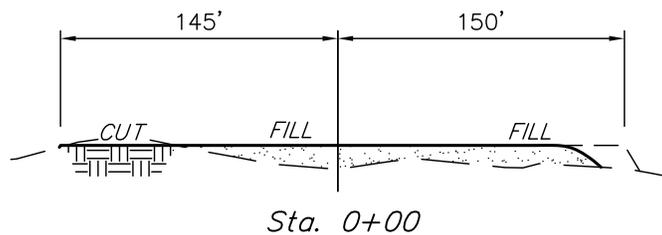
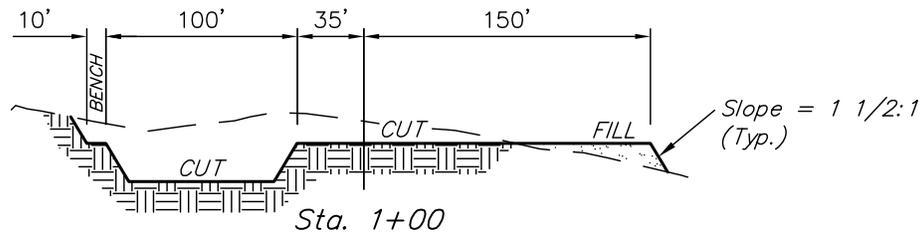
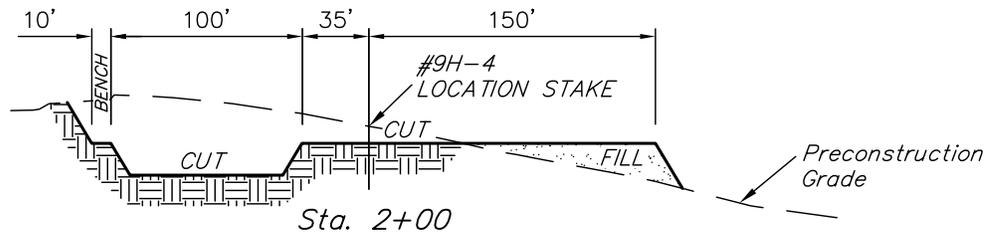
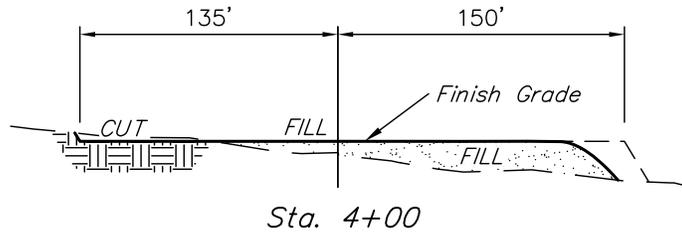
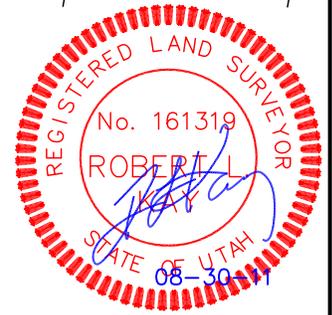
SECTION 4, T4S, R5W, U.S.B.&M.

NW 1/4 SW 1/4

FIGURE #2



DATE: 01-25-11
DRAWN BY: S.B.
REV: 05-05-11
REV: 08-08-11



NOTE:

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 3.461 ACRES
ACCESS ROAD DISTURBANCE = ± 1.409 ACRES
PIPELINE DISTURBANCE = ± 1.411 ACRES
TOTAL = ± 6.298 ACRES

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping = 4,920 Cu. Yds.
Remaining Location = 14,570 Cu. Yds.
TOTAL CUT = 19,490 CU.YDS.
FILL = 11,760 CU.YDS.

EXCESS MATERIAL = 7,730 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 7,730 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

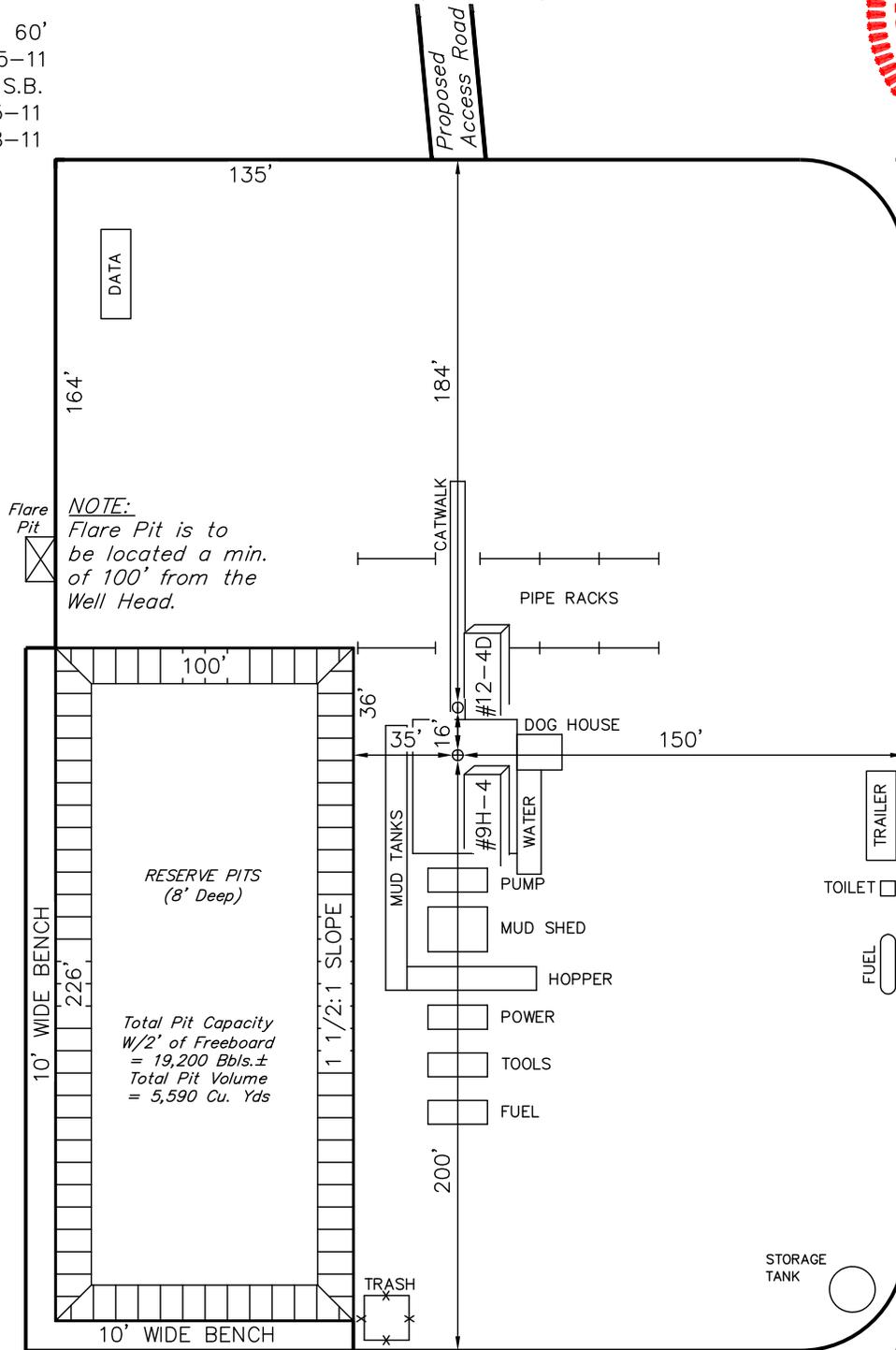
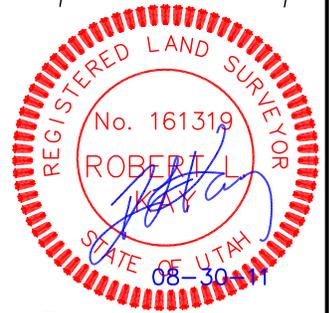
TYPICAL RIG LAYOUT FOR

#12-4D-45 BTR & 9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

FIGURE #3



SCALE: 1" = 60'
DATE: 01-25-11
DRAWN BY: S.B.
REV: 05-05-11
REV: 08-08-11

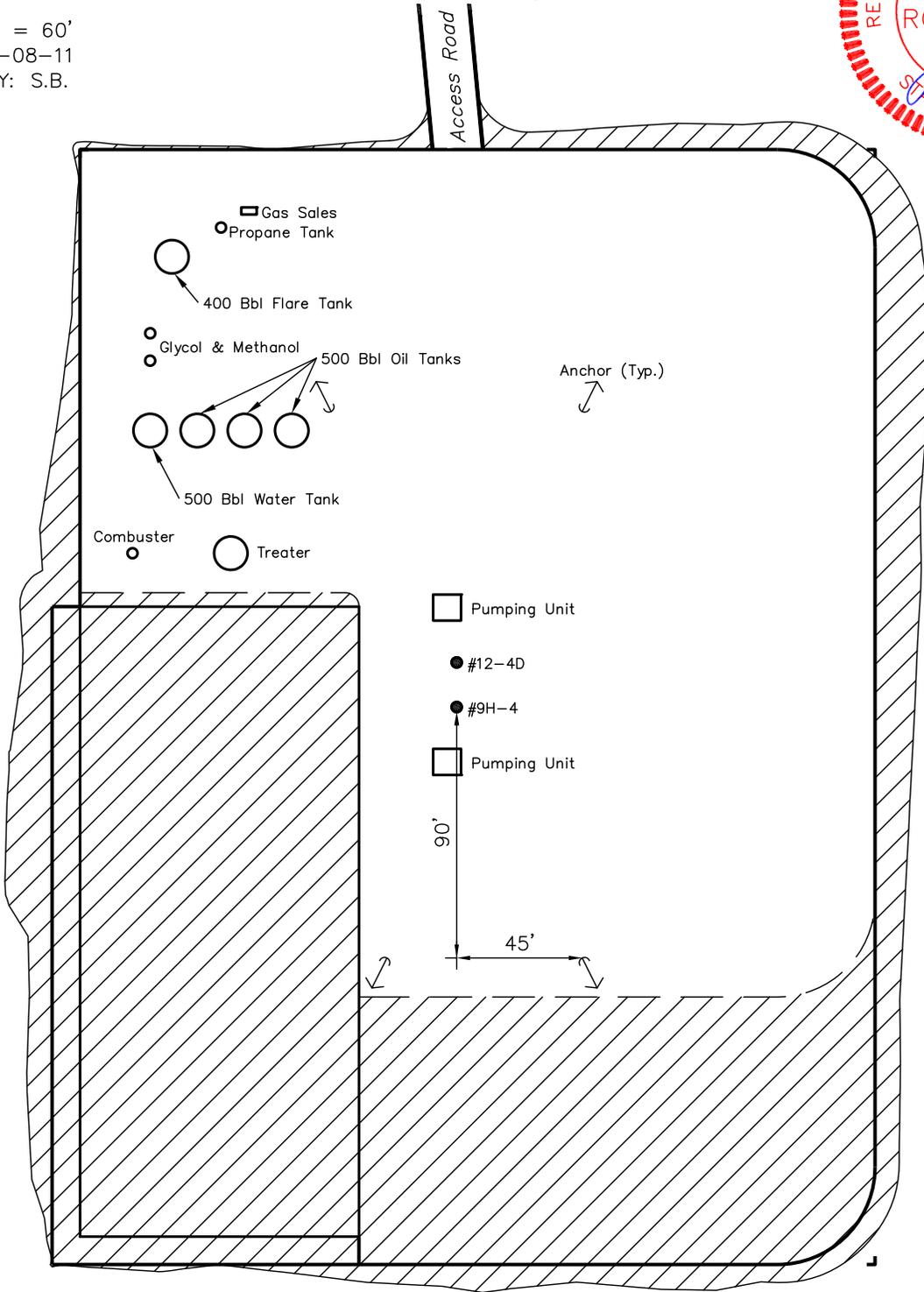
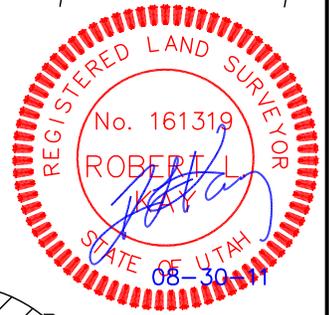


BILL BARRETT CORPORATION
INTERIM RECLAMATION PLAN FOR
#12-4D-45 BTR & 9H-4-45 BTR
SECTION 4, T4S, R5W, U.S.B.&M.
NW 1/4 SW 1/4

FIGURE #4



SCALE: 1" = 60'
DATE: 08-08-11
DRAWN BY: S.B.

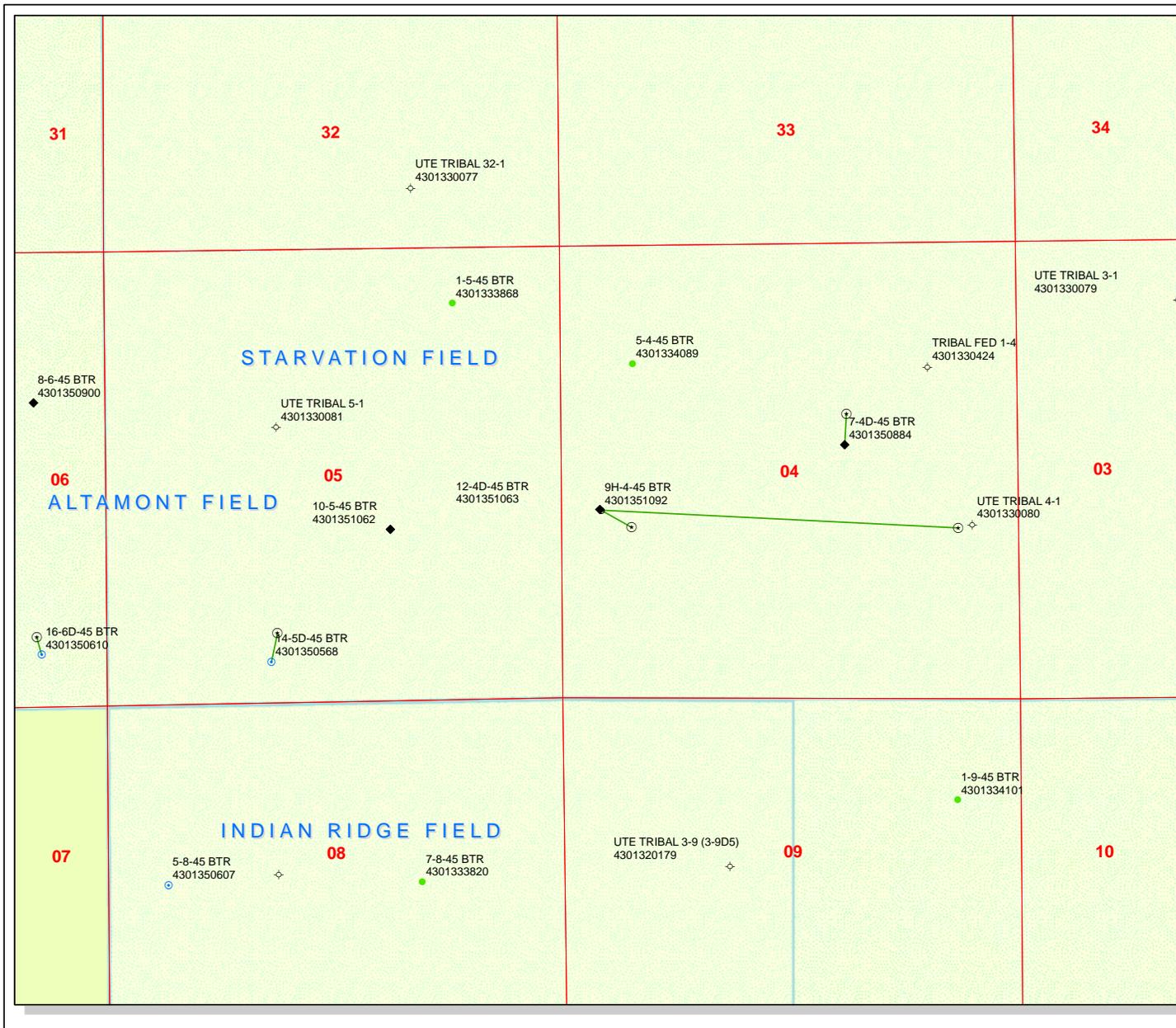


APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.644 ACRES

 INTERIM RECLAMATION

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

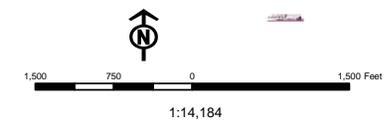
RECEIVED: November 29, 2011



API Number: 4301351092
Well Name: 9H-4-45 BTR
Township T0.4 . Range R0.5 . Section 04
Meridian: UBM
Operator: BILL BARRETT CORP

Map Prepared:
 Map Produced by Diana Mason

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



WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/29/2011

API NO. ASSIGNED: 43013510920000

WELL NAME: 9H-4-45 BTR

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NWSW 04 040S 050W

Permit Tech Review:

SURFACE: 2180 FSL 0463 FWL

Engineering Review:

BOTTOM: 1980 FSL 0700 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.16083

LONGITUDE: -110.46314

UTM SURF EASTINGS: 545718.00

NORTHINGS: 4445746.00

FIELD NAME: ALTAMONT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 1420H626281

PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

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

Comments: Presite Completed

Stipulations: 4 - Federal Approval - dmason
15 - Directional - dmason
27 - Other - bhil



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: 9H-4-45 BTR
API Well Number: 43013510920000
Lease Number: 1420H626281
Surface Owner: INDIAN
Approval Date: 12/5/2011

Issued to:

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

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-85. The expected producing formation or pool is the GREEN RIVER 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.

The 12-4D-45 BTR well shall not be completed in the target interval for the 9H-4-45 BTR 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 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 faint horizontal line.

For John Rogers
Associate Director, Oil & Gas

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

NOV 30 2011

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 1420H626281
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: VENESSA LANGMACHER E-Mail: vlangmacher@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8172 Fx: 303-291-0420	8. Lease Name and Well No. 9H-4-45 BTR
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NWSW 2180FSL 463FWL 40.160847 N Lat, 110.463019 W Lon At proposed prod. zone NESE 1980FSL 700FEL 40.160244 N Lat, 110.448308 W Lon		9. API Well No. 43-013-51092
14. Distance in miles and direction from nearest town or post office* 5.9 MILES WEST OF DUCHESNE, UT		10. Field and Pool, or Exploratory STARVATION
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 700' (BOTTOM HOLE)	16. No. of Acres in Lease 639.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 4 T4S R5W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 1689'	19. Proposed Depth 11297 MD 7450 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 5894 GL	22. Approximate date work will start 06/01/2012	13. State UT
20. BLM/BIA Bond No. on file LPM8874725		17. Spacing Unit dedicated to this well 640.00
23. Estimated duration 60 DAYS (D&C)		

24. Attachments

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

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

25. Signature (Electronic Submission)	Name (Printed/Typed) VENESSA LANGMACHER Ph: 303-312-8172	Date 11/29/2011
Title SENIOR PERMIT ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JUN 28 2012
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

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

Additional Operator Remarks (see next page)

Electronic Submission #124327 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE ROBINSON on 12/02/2011 ()

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

RECEIVED

JUN 10 2012

DIV. OF OIL, GAS & MINING

11550803A9

1116-017/2011



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Bill Barrett Corporation
Well No: 9H-4-45 BTR
API No: 43-013-51092

Location: NWSW, Sec. 4, T4S R5W
Lease No: 14-20-H62-6281
Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

Site Specific Conditions of Approval:

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY12-Q2-071 for additional mitigation measures that must be followed for the proposed action. There are also site specific COAs of concern towards the back of that document that must be adhered to.

General Conditions of Approval:

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

- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

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

SITE SPECIFIC DOWNHOLE COAs:

- A CBL shall be run from PBTD for the 7" intermediate casing to TOC.
- Cement for the surface casing will be circulated to the surface.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth

(from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and

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

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

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

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling
 Submitted By Venessa Langmach Phone Number 303-312-8172
 Well Name/Number 9H-4-45 BTR
 Qtr/Qtr NWSW Section 4 Township 4S Range 5W
 Lease Serial Number 1420H626281
 API Number 4301351092

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

Date/Time 11/10/2012 8:00 AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

Date/Time _____ AM PM

BOPE

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

RECEIVED

NOV 07 2012

DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
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: 9H-4-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510920000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/10/2012	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input 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. This well was spud on 11/10/2012 at 3:00 pm by Triple A Drilling.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 19, 2012		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 11/15/2012	

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

FORM 6

ENTITY ACTION FORM

Operator: Bill Barrett Corporation Operator Account Number: N 2165
 Address: 1099 18th Street, Suite 2300
city Denver
state CO zip 80202 Phone Number: (303) 312-8172

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351063	12-4D-45 BTR		NWSW	4	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	new	18813	11/9/2012			11/15/2012	
Comments: Spudding Operation was conducted by Triple A Drilling @ 8:00 am. GR-WS BHL: NWSW							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351092	9H-4-45 BTR		NWSW	4	4S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	new	18814	11/10/2012			11/15/2012	
Comments: Spudding Operation was conducted by Triple A Drilling @ 3:00 pm. GRRV BHL: nese							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

ACTION CODES:

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

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

5/16/2012

Date

RECEIVED

NOV 15 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
		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: 9H-4-45 BTR
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013510920000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/7/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Confidential Status"/>

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

BBC requests to hold this well in confidential status.

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

Date: February 25, 2013

By: *D. K. Duff*

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281	
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: 9H-4-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013510920000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U	
COUNTY: DUCHESNE	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/28/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

February 2013 monthly drilling report attached.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 March 05, 2013

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 3/5/2013	

**9H-4-45 BTR 2/15/2013 18:00 - 2/16/2013 06:00**

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	8.00	02:00	1	RIGUP & TEARDOWN	Walk rig to new well. RURT.
02:00	4.00	06:00	20	DIRECTIONAL WORK	P/U directional tools.

9H-4-45 BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	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	20	DIRECTIONAL WORK	P/U dir tools. Rig having tong trouble.
07:00	12.00	19:00	2	DRILL ACTUAL	Spud well @ 07:00. Steerable drlg 80' - 380'.
19:00	1.00	20:00	7	LUBRICATE RIG	Rig service. Clean out flowline.
20:00	10.00	06:00	2	DRILL ACTUAL	Steerable drlg 380' - 800' . Wob 10k, spp 900 psi, dp 250 psi, rop 42 fph.

9H-4-45 BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	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	2	DRILL ACTUAL	Steerable drlg 800' - 901'.
08:00	1.00	09:00	20	DIRECTIONAL WORK	Working on MWD.
09:00	0.50	09:30	2	DRILL ACTUAL	Steerable drlg 901 - 964'.
09:30	1.00	10:30	20	DIRECTIONAL WORK	Working on MWD.
10:30	2.50	13:00	6	TRIPS	Pump slug, Toh f/MWD. Check MM, bit.
13:00	1.50	14:30	20	DIRECTIONAL WORK	X/O MWD.
14:30	2.50	17:00	6	TRIPS	Tih. Scribe string f/MM, take check shots.
17:00	13.00	06:00	2	DRILL ACTUAL	Steerable drlg 964' - 1794'. Wob 20k, rpm 48, spp 1750 psi, dp 300 psi, 760 gpm, rop 64 fph.

9H-4-45 BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	Steerable drlg 1794' - 2268'.
13:00	0.50	13:30	7	LUBRICATE RIG	Rig service. Bop drill.
13:30	6.00	19:30	2	DRILL ACTUAL	Steerable drlg 2268' - 2733'. wob 25k, rpm 55/132, spp 2100 psi, dp 300 psi, rop 78 fph. TD surface.
19:30	1.50	21:00	5	COND MUD & CIRC	C&C f/csg. Sweep hole, circ clean. Pump pill.
21:00	5.00	02:00	6	TRIPS	Toh. L/d 8" tools.
02:00	4.00	06:00	12	RUN CASING & CEMENT	HSM. R/U Kimzey casers, Run 9 5/8", 36#, J-55, STC csg as follows: guide shoe, 1 jt csg, float collar, 61 jts csg. Ran 1900' csg @ report time.

9H-4-45 BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	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	12	RUN CASING & CEMENT	Finish running surf csg, land @ 2730'. R/d casers.
07:00	2.00	09:00	5	COND MUD & CIRC	Circulate, rig up cementers.
09:00	3.00	12:00	12	RUN CASING & CEMENT	Cement surface as follows: Pressure test lines to 2000 psi. Pump 20 bbls H2O, 40 bbls Super Flush, 20 bbls H2O. Mix and pump 248 bbls(440 sx) lead cmt @ 11 ppg, 3.16 yld, 19.48 gps H2O. Tail in w/57 bbls(240 sx) @ 14.8 ppg, 1.33 yld, 6.31 gps H2). Displace w/208 bbls drilling mud. Max pressure 560 psi, bump plug to 1000 psi. Bled back 1 bbl, floats held. Cement held @ ground level, no top job. R/D cementers. 170 bbls cmtback to surface. Reciprocated pipe until displacement.
12:00	3.00	15:00	13	WAIT ON CEMENT	W.O.C.
15:00	4.00	19:00	21	OPEN	Lift up riser, cut off csg, l/d riser, csg stub. Weld on drill through wellhead.
19:00	4.00	23:00	14	NIPPLE UP B.O.P	NUBOPE.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
23:00	4.50	03:30	15	TEST B.O.P	Test BOP. Test lower kelly valve, safety valve, dart valve, pipe and blind rams, choke line and manifold, kill line valve to 5000 psi/250 psi. Test annular to 2500/250 psi. Test csg to 1500 psi f/30 minutes. Performed accumulator function test.
03:30	2.50	06:00	20	DIRECTIONAL WORK	P/U BHA # 2.

9H-4-45 BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	DRILLING	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	Tih to 1750'.
08:30	1.50	10:00	9	CUT OFF DRILL LINE	Cut and slip drill line.
10:00	1.50	11:30	6	TRIPS	Tih. Tag cement @ 2670'.
11:30	2.00	13:30	21	OPEN	Drill cement, fit equip, 20' new hole to 2753'. F.I.T to 143 psi f/10# emw.
13:30	4.00	17:30	2	DRILL ACTUAL	Steerable drlg 2753' - 3169'. wob 20k, rpm 55/77, spp 1700 psi, dp 250 psi, rop 104 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service. BOP drill daylight.
18:00	11.50	05:30	2	DRILL ACTUAL	Steerable drlg 3169' - 4118'. Wob 20k, rpm 55/77, spp 2100 psi, dp 200 psi, rop 83 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. BOP drill morning tour.

9H-4-45 BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	DRILLING	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	Steerable drlg 4118' - 4181'.
07:00	0.50	07:30	7	LUBRICATE RIG	Rig Service.
07:30	21.50	05:00	2	DRILL ACTUAL	Steerable drlg 4181' - 5730'. wob 25k, rop 55/65, spp 1650 psi, dp 200 psi, rop 72 fph.
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.
05:30	0.50	06:00	2	DRILL ACTUAL	Steerable drlg 5730' - 5792'. wob 25k, rop 55/65, spp 1650 psi, dp 200 psi, rop 124 fph.

9H-4-45 BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	DRILLING	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	Steerable drlg 5792' - 6204'. wob 25k, rpm 55/65, spp 1850 psi, dp 200 psi, rop 55 fph.
13:30	0.50	14:00	7	LUBRICATE RIG	Rig Service.
14:00	12.50	02:30	2	DRILL ACTUAL	Steerable drlg 6204' - 6880'. wob 25k, rpm 55/65, spp 21000 psi, dp 250 psi, rop 54 fph.
02:30	2.50	05:00	5	COND MUD & CIRC	C&C, spot lcm pill.
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.
05:30	0.50	06:00	6	TRIPS	Pull 10 stds, flow check.

9H-4-45 BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	DRILLING	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	6	TRIPS	Toh.
11:30	1.00	12:30	7	LUBRICATE RIG	Rig Service. X/O inside rubber on rot head. Function blind rams.
12:30	5.00	17:30	6	TRIPS	Tih.
17:30	1.00	18:30	5	COND MUD & CIRC	Circ slow pump, lost 50 bbls.
18:30	1.50	20:00	2	DRILL ACTUAL	Steerable drlg 6880' - 6938'. Wob 25k, rpm 25/135, spp 2000 psi, dp 200 psi, rop 39 fph.
20:00	1.00	21:00	7	LUBRICATE RIG	Replace wash pipe on top drive, Rig service.
21:00	9.00	06:00	2	DRILL ACTUAL	Steerable drlg 6938' - 7170'. Wob 25k, rpm 25/135, spp 2000 psi, dp 200 psi, rop 26 fph.

**9H-4-45 BTR 2/24/2013 06:00 - 2/25/2013 06:00**

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Steerable drlg 7170' - 7324'. wob 25k, rpm 25/135, spp 2000 psi, dp 150 psi, rop 28 fph.
11:30	0.50	12:00	7	LUBRICATE RIG	Rig Service.
12:00	15.50	03:30	2	DRILL ACTUAL	Steerable drlg 7324' - 7790'. wob 25k, rpm 25/135, spp 2200 psi, dp 150 psi, rop 31 fph. TD intermediate @ 7790'.
03:30	2.50	06:00	5	COND MUD & CIRC	C&C mud, run sweeps. Spot lcm pill.

9H-4-45 BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	Toh to KOP. Trip went good, no pump or rotate.
07:30	1.00	08:30	5	COND MUD & CIRC	Pump pill, blow down top drive and mud lines.
08:30	5.50	14:00	6	TRIPS	Toh. L/D dir tools.
14:00	9.00	23:00	6	TRIPS	Caliper and Tally reamers, Hole opener. Tih w/reaming assbly(HO, Reamer, 1 jt DP, Reamer, 29 jts DP, 42 jts HWDP). Light reaming, hole stable.
23:00	2.50	01:30	5	COND MUD & CIRC	C&C mud. Sweep hole twice, clean up shakers.
01:30	3.00	04:30	6	TRIPS	Tried to pull reamers to KOP, had to backream.
04:30	1.50	06:00	3	REAMING	Reream curve.

9H-4-45 BTR 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	3	REAMING	Ream curve - light reaming. Sweep hole, clean up.
09:30	2.00	11:30	3	REAMING	Pulled 1 1/2 stands w/out pump, had to backream rest of way to KOP.
11:30	9.00	20:30	6	TRIPS	Toh to 6000'. Pump pill. LDDP. Pull wear bushing.
20:30	9.50	06:00	12	RUN CASING & CEMENT	HSM. R/U Weatherford TRS, run 7" csg, 4100' @ report time. Details on next report.

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 9H-4-45 BTR
Qtr/Qtr NW/NW Section 4 Township 4S Range 5W
Lease Serial Number 1420H626281
API Number 43-013-51092

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 2/18/2013 5:00 AM PM

BOPE

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

RECEIVED
FEB 15 2013
DIV. OF OIL, GAS & MINING

Date/Time 2/19/2013 11:00 AM PM

Remarks Times are estimated

—

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 9H-4-45 BTR
Qtr/Qtr NW/NW Section 4 Township 4S Range 5W
Lease Serial Number 1420H626281
API Number 43-013-51092

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 2/26/2013 10:00 AM PM

BOPE

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

RECEIVED

FEB 26 2013

DIV. OF OIL, GAS & MINING

Date/Time 2/27/2013 07:00 AM PM

Remarks Times are estimated

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22
Submitted By Pat Clark Phone Number 303-353-5350
Well Name/Number 9H-4-45 BTR
Qtr/Qtr NW/NW Section 4 Township 4S Range 5W
Lease Serial Number 1420H626281
API Number 43-013-51092

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

Date/Time _____ AM PM

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

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

Date/Time 3/6/2013 10:00 AM PM

BOPE

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

RECEIVED
MAR 06 2013
DIV. OF OIL, GAS & MINING

Date/Time _____ AM PM

Remarks Times are estimated

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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: 1420H626281
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: 9H-4-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510920000
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/1/2013	<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 March 2013 Drilling Activity for this well.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 04, 2013		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 4/4/2013	

**9H-4-45 BTR 3/1/2013 06:00 - 3/2/2013 06:00**

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	6	TRIPS	Finish P/U 4" XT39 drillpipe
13:00	1.00	14:00	15	TEST B.O.P	Pressure test Csg 250# for 5 min, 2000# for 30 min
14:00	1.00	15:00	2	DRILL ACTUAL	Tag float @ 7683'. Drill out float eq.
15:00	2.50	17:30	2	DRILL ACTUAL	Drill/slide 7790-7931'. Survey @ 7922'. 91.04 inc 97.31 az. MW 9.3#/gal 50 vis PH 9.8
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP.
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/Slide 7931-8563'. Survey @ 8396'. 89.73* inc 95.88 az MW 9.3#/gal 50 vis PH 9.8 2% diesel. Gamma count 5.0

9H-4-45 BTR 3/2/2013 06:00 - 3/3/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Drig 8563-9037 474' in 10.5 hrs 45 fph survey @ 8965' 89.29* inc 100.24 az MW 9.3#/gal 50 vis 9.8 ph 4.6 WL
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service, function test BOP
17:00	13.00	06:00	2	DRILL ACTUAL	Drill/Slide 9037-9700'. 663' in 13 hrs 51 fph. Survey @ 9533'. 94.07* inc 100.14* az MW 9.35#/gal 49 vis 9.8 ph 4.6 WI Gamma 63

9H-4-45 BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/Slide 9700-10174'. 474' in 10 hrs survey @ 10101 88.39* inc 95.95* az. MW 9.3#/gal 52 vis
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service Function test BOP
16:30	13.00	05:30	2	DRILL ACTUAL	Drill/Slide 10174-10742'. 568' in 13 hrs 44 fph. Survey @ 10575' 90.24* inc 97.48 az. MW 9.3#/gal 53 vis 4.4 WL 10.1 ph lube 1%

9H-4-45 BTR 3/4/2013 06:00 - 3/5/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	2	DRILL ACTUAL	Drig 10742-11290'(TD). 548' in 11 hrs, 50 fph. Survey @ 11290 90.96* inc 96.75 az MW 9.3#/gal 50 vis 9.8 ph 5 wl
17:00	0.50	17:30	7	LUBRICATE RIG	Rig service. function test BOP
17:30	3.00	20:30	5	COND MUD & CIRC	Pump sweeps While rotating and working pipe till shaker are clea.
20:30	6.00	02:30	2	DRILL ACTUAL	Pull 10 stds. Pulled smoothly with no pump or rotation. Pump dryjob and blow down TD. TOH.
02:30	2.50	05:00	20	DIRECTIONAL WORK	L/D Dir equipment.
05:00	1.00	06:00	6	TRIPS	P/U reaming assembly.

9H-4-45 BTR 3/5/2013 06:00 - 3/6/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	P/U reaming assembly 6 1/8" insert bit, bit sub, 1 jt drillpipe, reamer, 1 jt drillpipe, reamer and TIH to csg shoe @ 7777'. Fill pipe 2600.4600 & 6600.
11:00	14.00	01:00	3	REAMING	Wash and ream from casing shoe. Work tight spot 9820-9970'. Ream to bottom.
01:00	2.00	03:00	5	COND MUD & CIRC	Pump 2 sweeps 20 min apart. Rig up HES for fluid caliper.
03:00	3.00	06:00	21	Fluid caliper	HSM tie HES into Drillpipe. Pressure test and pump fluid caliper. Hole volume 367 bbls. Volume pumped 360 bbls indicating guage hole.

9H-4-45 BTR 3/6/2013 06:00 - 3/7/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	6	TRIPS	TOH reaming assembly. Left 6800' pipe in derrick. Laydown remaining pipe.
15:00	15.00	06:00	12	RUN CASING & CEMENT	Rig up csg crew and Pickup 101 jts 4.5" P110 casing with 2 jt shoe track, landing collar and RSI sleeve. Pickup liner hanger. RIH Land @ 11289'. Rig up HES to cmt.

9H-4-45 BTR 3/7/2013 06:00 - 3/8/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	12	RUN CASING & CEMENT	Rigging up cmtr's.
09:00	3.00	12:00	12	RUN CASING & CEMENT	P Test to 9000#, Bleed off, Mix tuned spacer to 11#/gal Pump @ 4 bpm, Pump 200 bbls Foamed cmt @ 14.5 #/gal Foamed 12#/gal, Pump 50 sks 14.3 #/gal tail cmt. Drop top plug. Pump 80 bbls water with Cla-web & aldocide to fill liner then 51.5 bbl; mud. Bump plug and test floats.
12:00	3.00	15:00	21	Set liner hanger	Set liner hanger and pull out of TBR. Pressure test Liner hanger to 3000# for 10 min. Held good. Circulate liner top clean. app 5 bbls cmt returned. Roll hole with water with Cla-web & aldocide.
15:00	5.00	20:00	6	TRIPS	Rig down cmtr's and laydown drillpipe. N/D BOP. Rig released @ 2200 hrs.

9H-4-45 BTR 3/13/2013 06:00 - 3/14/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	IWHD	Install Wellhead	CLEAN CELLAR. CHECK PRESSURE. ND 11" NIGHT CAP. MAKE FINAL CUT ON 7" CSG. INSTAL 7" 10K TBG HEAD. PRES TEST VOID. GOOD. INSTALL 7" NIGHT CAP.
09:00	21.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION.

9H-4-45 BTR 3/14/2013 06:00 - 3/15/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	RU SLB. RIH W/ 3.63" OD GR/JB. COULD NOT GET INTO LINER TOP AT 6780' (AS PER DRLG REPORT). RIH W/ 3.25" GR/JB. INTO LINER TO 7484'. POOH. RIH W/ CBL/GR/TEMP/CCL. THRU LINER TOP TO 7584'. REPEAT PASS 7585'-7350'. LOG SHOWS CMT BOND OF 7585'-6810' (LT) GOOD, 6810'-6250' GOOD, 6250'-5400' FAIR, 5400'-5260' RATTY, 5260'-4750' FAIR, 4750'-4350' GOOD, 4350'-3750' FAIR, 3750'-2770' BAD, TOC 2770'. MAX TEMP 177*, MAX PRES 3200 PSI. DID NOT RUN UNDER PRESSURE. RD SLB AND SECURE WELL.

9H-4-45 BTR 3/15/2013 06:00 - 3/16/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

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

9H-4-45 BTR 3/16/2013 06:00 - 3/17/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

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

9H-4-45 BTR 3/17/2013 06:00 - 3/18/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

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

9H-4-45 BTR 3/18/2013 06:00 - 3/19/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

**Time Log**

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

9H-4-45 BTR 3/19/2013 06:00 - 3/20/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

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

9H-4-45 BTR 3/21/2013 06:00 - 3/22/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRI RIG & EQUIPMENT.
09:00	3.00	12:00	BOPI	Install BOP's	N/D WELLHEAD. N/U BOP. CHANGE RAMS TO 4-1/2. LOAD 182 JTS 4-1/2 CSG ON PIPE RACKS & TALLY. R/U WEATERFORD CSG CREW.
12:00	5.00	17:00	RUTB	Run Tubing	P/U HALLIBURTON PBR SEAL ASSEMBLY. RIH TO 5164' P/U 4-1/2", 11.6#, P-110 CSG. DUE TO VERY HIGH WINDS. SWIFN.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. HOLD SAFETY MEETING.

9H-4-45 BTR 3/22/2013 06:00 - 3/23/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	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	3.00	10:00	RUTB	Run Tubing	FINISH RIH TO TIEBACK RECEPACLE @ 6780' W/ HALLIBURTON PBR SEAL ASSEMBLY P/U 4-1/2", 11.6#, P-110 CSG. TORQUE CSG TO 3020#.
10:00	2.00	12:00	GOP	General Operations	STING IN & SPACE OUT. CIRC WELL W/ 2% KCL. LAND CSG IN 20K COMPRESSION. LOCK IN HANGER. PRESSURE TEST ANNULUS TO 2000 PSI FOR 15 MIN. HELD GOOD. R/D WEATHERFORD CSG CREW. CSG DETAIL KB 22.00 HANGER .75 40K COMPRESSION -3.00 1 JT 4-1/2" CSG 41.65 4-1/2" PUP JT 10.00 4-1/2" PUP JT 8.00 4-1/2" PUP JT 8.00 160-JTS 4-1/2" CSG 6708.90 PBR 13.25
12:00	1.00	13:00	IWHD	Install Wellhead	N/D BOP. N/U 4-1/16" 10K FRAC TREE.
13:00	4.00	17:00	PTST	Pressure Test	R/U BASIC ENERGY. PRESSURE UP ON RSI SLEEVE TO 8300 PSI & OPEN SLEEVE. PUMP 1500 GAL 15% ACID, PUMPING INTO @ 10 BPM @ 3020 PSI. R/U SLB WIRELINE. RIH W/ HES 4.5 DUMMY PLUG. PUMP PLUG DOWN HOLE TO RSI SLEEVE @ 11,148. POOH. R/D BASIC & SLB.
17:00	1.00	18:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. MOL. SDFN.
18:00	10.00	04:00	CTRL	Crew Travel	WELL SHUT IN & SECURE.

9H-4-45 BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43013510920000	UT	Duchesne	Black Tail Ridge	COMPLETION	11,290.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Setting Frac Line/Filling

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
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: 9H-4-45 BTR	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013510920000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 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: 4/8/2013 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
This well had first gas sales on 4/8/2013.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 26, 2013		
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 4/10/2013	

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: 1420H626281
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: 9H-4-45 BTR
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U		9. API NUMBER: 43013510920000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> 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"/> 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: <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 style="margin: 0;">Accepted by the</p> <p style="margin: 0;">Utah Division of</p> <p style="margin: 0;">Oil, Gas and Mining</p> <p style="margin: 0;">FOR RECORD ONLY</p> <p style="margin: 0;">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	

**9H-4-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00**

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	Construction Crew Working On Facilities. Loading Acid. Filling Frac Line.

9H-4-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	Construction Crew Working On Facilities. Finish Filling Frac Line. Set Sand Storage.

9H-4-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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 FRAC LINE. PRES TEST FLOW BACK EQUIP.

9H-4-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	MIRU SLB. MIRU BASIC FRAC FLEET.

9H-4-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	FRAC ON 12-4D-45

9H-4-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.00	21:00	LOCL	Lock Wellhead & Secure	WSI And Secured
21:00	1.34	22:20	SRIG	Rig Up/Down	MORU From 12-4D-45 BTR. WireLine Swap Out To 4" 10K Lubricator. Arm Stage 1 Gun. Pressure Up On Annulus To 1800 Psi..
22:20	1.75	00:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Perforate Stage 1 UteLand Butte Zone, 10,853 - 11,007'. 28 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
00:05	0.08	00:10	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well.
00:10	0.33	00:30	FRAC	Frac. Job	Acidize Stage 1. Open Well, 1,570 Psi. ICP. BrokeDown At 9.6 Bpm And 3,490 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,670 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured. Total Clean - 32,298 Gals.. 769 Bbls.. BWTR - 650 Bbls. Max. Rate - 66.0 Bpm Avg. Rate - 63.0 Bpm Max. Psi. - 6,630 Psi. Avg. Psi. - 5,860 Psi.
00:30	0.17	00:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
00:40	1.67	02:20	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 10,778'. 2,200 Psi.. Perforate Stage 2 UteLand Butte Zone, 10,399 - 10,703'. 44 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
02:20	0.17	02:30	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
02:30	0.33	02:50	FRAC	Frac. Job	Acidize Stage 2. Open Well, 1,840 Psi. ICP. BrokeDown At 20.8 Bpm And 3,360 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,460 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total Clean - 26,628 Gals.. 634 Bbls.. BWTR - 634 Bbls. Max. Rate - 60.0 Bpm Avg. Rate - 50.0 Bpm Max. Psi. - 6,460 Psi. Avg. Psi. - 4,996 Psi.
02:50	0.17	03:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
03:00	1.58	04:35	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 10,324'. 2,100 Psi.. Perforate Stage 3 UteLand Butte Zone, 9,945 - 10,249'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
04:35	0.08	04:40	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
04:40	0.34	05:00	FRAC	Frac. Job	Acidize Stage 3. Open Well, 1,740 Psi. ICP. BrokeDown At 19.1 Bpm And 3,170 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,440 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. Total Clean - 25,200 Gals.. 600 Bbls.. BWTR - 600 Bbls. Max. Rate - 55.0 Bpm Avg. Rate - 48.0 Bpm Max. Psi. - 6,430 Psi. Avg. Psi. - 5,850 Psi.
05:00	0.17	05:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
05:10	0.83	06:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. CREW CHANGE. HSM. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 9,870'. 2,100 Psi.. Perforate Stage 4 UteLand Butte Zone, 9,500 - 9,795'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.

9H-4-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	PFRT	Perforating	Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 9,870'. 2,100 Psi.. Perforate Stage 4 UteLand Butte Zone, 9,500 - 9,795'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured. TURN OVER TO BASIC.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	2.00	09:00	FRAC	Frac. Job	CHANGE OUT SWEDGE IN CSG VALVE. PRESSURE TEST. FOUND LEAKING PUMP. CONT W/ 4 PUMPS PRES TEST LINES TO 9000 PSI. ACIDIZE STAGE 4. PERFS 9500'-9795'. 44 HOLES IN 11' NET. OPEN WELL W/ 1700 PSI AT 08:29. LET BALL FALL FOR 10 MIN. BD 30.0 BPM AT 6120 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/ 167.5 BBLS. ISIP 2470 PSI. FG .75. BWTR 510.5 BBLS MR 42.2. AR 27.1. MP 7422. AP 5030. TURN OVER TO SLB W/ 2400 PSI. SOMEONE LEFT VALVE ON ACID TANK OPEN. HAD ACID IN FLUSH. ACID RAN INTO ALUMINUM MANIFOLD AND ATE A HOLE IN IT. HAVE ACID FLOW BACK INTO PW TANKS. PERF STG 5 BECAUSE WL ALREADY IN HOLE.
09:00	1.50	10:30	PFRT	Perforating	PERF STG 5- PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/ 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/ 116 BBLS. SET CFP AT 9425'. PERF UTELAND BUTTE FORM 9037'-9341'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
10:30	2.00	12:30	DTIM	Downtime	PUMP MANIFOLD DRY TO FBT. DRAIN HOSES WITH WTR TRUCK. REMOVE ALL HOSES. CLEAR WORK AREA. HAVE LEAKING FITTINGS ON ACID TANKS. DRAIN HOSES AND FIX. HOLD SAFETY MTG. RESUME FRAC JOB.
12:30	0.75	13:15	FRAC	Frac. Job	ACID STAG 5. PRES TEST LINES TO 9000 PSI. ACIDIZE PERFS 9037'-9341'. 44 HOLES IN 11' NET. OPEN WELL W/ 1640 PSI AT 12:37. LET BALL FALL FOR 10 MIN. BD 18.6 BPM AT 5350 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/ 160.2 BBLS ISIP 2470 PSI. FG .75. BWTR 510.5 BBLS MR 42.2. AR 27.1. MP 7422. AP 5030. TURN OVER TO SLB W/ 2400 PSI.
13:15	1.50	14:45	PFRT	Perforating	PERF STG 6- PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/ 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/ 71 BBLS. SET CFP AT 8962'. PERF UTELAND BUTTE FORM 8583'-8887'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
14:45	0.50	15:15	FRAC	Frac. Job	ACID STAG 6. PRES TEST LINES TO 9000 PSI. 4 PMPS ONLINE. ACIDIZE PERFS 8583'-8887'. 44 HOLES IN 11' NET. OPEN WELL W/ 1750 PSI AT 14:48. LET BALL FALL FOR 10 MIN. BD 21.8 BPM AT 5350 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/ 155.3 BBLS ISIP 2360 PSI. FG .73. BWTR 510.5 BBLS MR 55.0. AR 36.3. MP 5660. AP 4015. TURN OVER TO SLB W 2300 PSI
15:15	1.50	16:45	PFRT	Perforating	PERF STG 7- PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/ 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/ 52 BBLS. SET CFP AT 8508'. PERF UTELAND BUTTE FORM 8129'-8433'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
16:45	0.50	17:15	FRAC	Frac. Job	ACID STAG 7. PRES TEST LINES TO 9000 PSI. 5 PMPS ONLINE. ACIDIZE PERFS 8129'-8433'. 44 HOLES IN 11' NET. OPEN WELL W/ 1660 PSI AT 16:54. LET BALL FALL FOR 10 MIN. BD 21.4 BPM AT 3730 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/ 146.8 BBLS ISIP 2340 PSI. FG .73. BWTR 505.6 BBLS MR 66.8. AR 40.8. MP 6020. AP 4117. TURN OVER TO SLB W 2100 PSI



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
17:15	2.42	19:40	PFRT	Perforating	PERF STG 8- PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/ 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/ 52 BBLS. SET CFP AT 8054'. PERF UTELAND BUTTE FORM 7675'-7979'. 56 HOLES IN 14' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.	
19:40	0.17	19:50	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.	
19:50	0.33	20:10	FRAC	Frac. Job	Acidize Stage 8. Open Well, 1,670 Psi. ICP. BrokeDown At 20.1 Bpm And 3,600 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,440 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured. Total Clean - 21,630 Gals.. 515 Bbls.. BWTR - 515 Bbls. Max. Rate - 63.0 Bpm Avg. Rate - 41.0 Bpm Max. Psi. - 5,820 Psi. Avg. Psi. - 4,580 Psi.	
20:10	0.08	20:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.	
20:15	1.17	21:25	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate UpTo 10 Bpm Until At Depth. Set CFP At 7,662'. 2,000 Psi.. Perforate Stage 9 UteLand Butte Zone, 7,507 - 7,642'. 21 Holes. 1,950 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.	
21:25	0.17	21:35	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.	
21:35	0.34	21:55	FRAC	Frac. Job	Acidize Stage 9. Open Well, 1,760 Psi. ICP. BrokeDown At 17.7 Bpm And 5,910 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,490 Psi.. 0.77 Psi./Ft. F.G.. WSI And Secured. Total Clean - 20,496 Gals.. 488 Bbls.. BWTR - 488 Bbls. Max. Rate - 42.0 Bpm Avg. Rate - 40.0 Bpm Max. Psi. - 7,320 Psi. Avg. Psi. - 6,873 Psi.	
21:55	3.08	01:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.	
01:00	6.00	07:00	FBCK	Flowback Well	Open Well To FlowBack At 100 BPH.	

9H-4-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	FBCK	Flowback Well	FLOW WELL TO FBT TILL PH AT 5. MAKING TRACE OF OIL. LIGHT GAS BLOW. 12 BWPH.	
09:00	21.00	06:00	FBCK	Flowback Well	TURN TO PRODUCTION AND SALES.	

9H-4-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	SNOW CONDITIONS. CALL FOR BLADE AND PUSH INTO LOCATION.	
07:00	3.00	10:00	RMOV	Rig Move	MOVE COIL TBG SERVICES INTO LOCATION. SPOT EQUIP. CRANE FROZE UP WITH ICE ON REELS. THAW OUT TO GET CRANE WORKING.	
10:00	2.00	12:00	SRIG	Rig Up/Down	RU BOP, INJECTOR HEAD AND LUBE. INSTALL COIL CONNECTOR AND PULL TEST. FILL AND CHECK COIL.	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	1.00	13:00	GOP	General Operations	MU 3.80" MILL, MOTOR, AV SUB, GF DRIVER, GF AGITATOR, HYD DISCONNECT, BI-DI JAR, DUAL FLAPPER. TEST TOOLS. MU IN LUBE. PRES TEST TO 4000 PSI.
13:00	1.25	14:15	RUTB	Run Tubing	OPEN UP WELL AND RIH AS CIRC .5 BPM TO CURVE. CIRC 3 BPM AS TRAVEL TO PLUGS. PMP 3, RETURN 3, 64/64 CHOKE.
14:15	2.50	16:45	DOPG	Drill Out Plugs	D/O PLUGS. PMP 3, RETURN 3, WHP 300. D/O CFP #1 AT 7662' IN 10 MIN. PMP 3, RETURN 3 WHP 350. RIH PMP 3, RETURN 3, WHP 350. D/O CFP #2 AT 8054' IN 32 MIN. PLUG PUSHING UP. CONTROL WITH CHOKE TO 18/64". WHP TO 1150. PLUG START MOVING DOWN HOLE. PMP 3, RETURN 3, WHP 1100. RIH. PMP 3, RETURN 3, WHP 1100. D/O CFP #3 AT 8508' IN 29 MIN. PMP 3, RETURN 3, WHP 1050. RIH PMP 3, RETURN 3, WHP 1000. D/O CFP #4 AT 8962' IN 26 MIN. PMP 3, RETURN 3, WHP 1000. RIH. RIH AND TAG CFP #5.
16:45	1.50	18:15	CTU	Clean Out	PMP 20 BBL SWEEP AND SHORT TRIP TO TOP OF CURVE. RUN BACK IN.
18:15	3.00	21:15	DOPG	Drill Out Plugs	D/O PLUGS. PMP 3. RETURN 3. WHP 800. D/O CFP #5 AT 9425' IN 18 MIN. PMP 3, RETURN 3. WHP 850. RIH. PMP 3, RETURN 3, WHP 850. D/O CFP #6 AT 9870' IN 46 MIN. PMP 3, RETURN 3.5. WHP 850. RIH. PMP 3, RETURN 3.5, WHP 850. D/O CFP #7 AT 10,324' IN 27 MIN. PMP 3. RETURN 3.5. WHP 850. RIH PMP 3, RETURN 3.5, WHP 850. D/O CFP #8 AT 10,778' IN 46 MIN. PMP 3. RETURN 3.5. WHP 850. RIH. TAG RSI AT 11,148'.
21:15	0.75	22:00	CTU	Clean Out	PUMP 20 BBL SWEEP. WHEN OUT OF TBG SLOW PMP TO 1.5 AND BRING ON 750 SCF N2. WHEN OUT OF TBG START POOH SLOW.
22:00	2.50	00:30	PULT	Pull Tubing	CIRC 1.5 BPM AND 750 SCF N2 AS POOH W/ COIL TBG. AT 2500' SHUT DOWN N2. LOAD COIL W/ FLUID AS FINISH POOH.
00:30	2.50	03:00	SRIG	Rig Up/Down	REMOVE MILL AND TOOLS. HOOK UP TO BOP. BLOW COIL DRY WITH N2. BLEED OFF COIL PRES. RD COIL TBG UNIT. RACK OUT EQUIP.
03:00	3.00	06:00	FBCK	Flowback Well	SITP 1550. OPEN WELL TO PRODUCTION AND SALES. TURN OVER TO FBC.

9H-4-45 BTR 4/25/2013 00:00 - 4/26/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	1.00	01:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
01:00	1.50	02:30	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.
02:30	1.50	04:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOP. CHANGE RAMS TO 4-1/2. R/U FLOOR.
04:00	2.00	06:00	GOP	General Operations	R/U WEATHERFORD CSG CREW. FLUSH 4-1/2 CSG W/ 60 BBLs.
06:00	6.00	12:00	PULT	Pull Tubing	POOH W/ 135 JTS 4-1/2 CSG L/D. 26 JTS LEFT IN HOLE. BEEN HAVING PROBLEMS W/ TONGS. SECOND SET OF TONGS BROKE DOWN. R/D CSG TONGS. SDFN. CSG OPEN TO SALES.
12:00	12.00	00:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

9H-4-45 BTR 4/26/2013 06:00 - 4/27/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	1.50	08:30	PULT	Pull Tubing	SIWP- 0. R/U WEATHERFORD CSG TONGS. FINISH POOH L/D 26 JTS OF 4-1/2 CSG, R/D WEATHERFORD.
08:30	2.00	10:30	GOP	General Operations	SPOT IN CATWALK & PIPE RACKS. LOAD 2-7/8 TBG ON RACKS & TALLY. CHANGE RAMS TO 2-7/8.
10:30	4.00	14:30	RUTB	Run Tubing	RIH P/U NEW 2-7/8 L-80 TBG TO 6727'. 212 JTS TOTAL.
14:30	1.50	16:00	PULT	Pull Tubing	POOH W/ 65 STANDS TBG. SWIFN. CSG OPEN TO SALES. PREP RODS. SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

9H-4-45 BTR 4/29/2013 06:00 - 4/30/2013 00:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	WKLL	Kill Well	SIWP- 80. KILL WELL.
08:00	1.50	09:30	PULT	Pull Tubing	POOH W/ 31 STANDS. UNLOAD PCP EQUIPMENT.
09:30	4.50	14:00	RUTB	Run Tubing	P/U & RIH W/ NO TURN TOOL & PCP STATER. SET NO TURN TOOL @ 6775'. R/D FLOOR. N/D BOP. R/U FLOW LINE. FLUSH TBG W/ 70 BBLs. 211 JTS 2-7/8 TBG. DEVERTER VALVE. 10'- 2-7/8 TBG PUP. PCP STATER. TAG BAR ASSEMBLY. 8'- 2-7/8 TBG PUP. NO TURN TOOL.
14:00	3.50	17:30	RURP	Run Rods & Pump	P/U ROTOR & POLISH ROD. RIH P/U 230- 1" x 7/8 PIN KD RODS. WAIT ON RODS, NEED 1000' MORE FEET. SDFN. CSG OPEN TO SALES.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT **BHL: PBTVD 7452**

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
1420H626281

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

6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.

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

8. Lease Name and Well No.
9H-4-45 BTR

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

9. API Well No.
43-013-51092

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface **NWSW 2180FSL 463FWL**
 At top prod interval reported below **NWSW 2113FSL 829FWL**
 At total depth **NESE 1729FSL 728FEL**

10. Field and Pool, or Exploratory
ALTAMONT
 11. Sec., T., R., M., or Block and Survey or Area **Sec 4 T4S R5W Mer UBM**
 12. County or Parish **DUCHESNE** 13. State **UT**

14. Date Spudded **11/10/2012** 15. Date T.D. Reached **03/22/2013** 16. Date Completed
 D & A Ready to Prod. **04/08/2013**

17. Elevations (DF, KB, RT, GL)*
5894 GL

18. Total Depth: MD **11290** TVD **7452** 19. Plug Back T.D.: MD **11198** TVD **7360** 20. Depth Bridge Plug Set: MD **TVD**

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80					
12.250	9.625 J-55	36.0	0	2733	2730	680	305	0	
8.750	5.500 P-110	26.0	0	7790	7777	820	290	2850	
6.125	4.500 P-110	11.6	6780	11290	11289	0	0		

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	6714							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	7507	11007	7507 TO 11007	0.360	357	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
7507 TO 11007	SEE ATTACHED STAGES 1-9

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/08/2013	04/12/2013	24	▶	167.0	580.0	682.0	52.0		FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
28/64	SI	400.0	▶	167	580	682	3473	POW	

28a. Production - Interval B

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

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #207377 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	3029
				MAHOGANY	3879
				DOUGLAS CREEK	6009
				BLACK SHALE	6864
				CASTLE PEAK	7107
				UTELAND BUTTE	7521

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL. First gas sales were on 04/08/13 and first oil sales were on 04/14/13. Conductor cemented with grout. Attached is treatment data and end of well report.

33. Circle enclosed attachments:

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

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

Electronic Submission #207377 Verified by the BLM Well Information System.
 For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) VENESSA LANGMACHER Title SENIOR PERMIT ANALYST

Signature (Electronic Submission)  Date 05/14/2013

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 ****

9H-4-45 BTR Completion Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)		
AMOUNT AND TYPE OF MATERIAL		
<u>Stage</u>	<u>BBLS Slurry</u>	<u>gal 15% HCL Acid</u>
1	600	17,472
2	532	15,000
3	488	15,000
4	524	15,000
5	517	15,000
6	510	15,000
7	503	15,000
8	485	15,000
9	480	15,000

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

API Well Number : **48035092000** **SPERRY-SUN DRILLING SERVICES**
CERTIFIED SURVEY WORK SHEET

OPERATOR:	Bill Barrett Corp.
WELL:	9H-4-45 BTR
FIELD:	BTR
RIG:	Nabors M22
LEGALS:	Sec. 4-T4S-R5W
COUNTY:	Duchesne
STATE:	Utah
CAL. METHOD:	Min. Curv.
MAG. DECL. APPLIED:	11.31
VERTICAL SEC. DIR. :	93.050

SSDS Job Number :	900060461
Start Date of Job :	2/16/2013
End Date of Job :	3/5/2013
Lead Directional Driller:	Paul St.Onge
	Wesley Cline
Other SSDS DD's :	Glen Kumm
SSDS MWD Engineers :	Freddy Hale
	Pascal Poupart
	Adam Sampson

Geo Pilot Engineer :

	Main Hole =====>	1st Side Track =====>	2nd Side Track =====>	3rd Side Track =====>	4th Side Track =====>
Surface Casing	2726.00	Tie-on	Tie On	Tie On	Tie On
First Wireline Survey		SS	MWD		
Last Wireline Survey		SS			
KOP Depth/Sidetrack MD		KOP	KOP-ST1	KOP-ST2	KOP-ST3
MWD Tie-on					
First MWD Survey Depth	153.00	MWD	MWD	MWD	MWD
Last MWD Survey Depth	11218.00	MWD	MWD	MWD	MWD
Bit Extrapolation @ TD	11290.00	T.D.	T.D.	T.D.	T.D.

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

Print Name : Paul St.Onge	Print Name : Wesley Cline	Print Name : Glen Kumm
Sign Name : <i>Paul St. Onge</i>	Sign Name :	Sign Name : <i>[Signature]</i>
Print Name : Freddy Hale	Print Name : Pascal Poupart	Print Name : Adam Sampson
Sign Name :	Sign Name : <i>[Signature]</i>	Sign Name : <i>[Signature]</i>

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

Design Report for 9H-4-45 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
153.00	0.33	218.370	153.00	-0.35	-0.27	-0.25	0.22
First Sperry MWD Survey @ 153.00' MD							
200.00	0.46	224.960	200.00	-0.59	-0.49	-0.46	0.29
244.00	0.44	211.900	244.00	-0.85	-0.70	-0.66	0.24
291.00	0.19	245.050	291.00	-1.04	-0.87	-0.81	0.64
336.00	0.23	27.320	336.00	-0.99	-0.90	-0.84	0.88
383.00	0.43	17.200	383.00	-0.74	-0.80	-0.76	0.44
428.00	0.70	31.230	427.99	-0.34	-0.61	-0.59	0.67
479.00	1.19	29.580	478.99	0.38	-0.19	-0.21	0.96
524.00	1.61	28.000	523.97	1.35	0.34	0.27	0.94
571.00	2.15	21.160	570.95	2.75	0.97	0.82	1.24
615.00	2.76	37.920	614.91	4.36	1.92	1.68	2.13
660.00	3.29	31.910	659.84	6.31	3.27	2.93	1.37
738.00	3.73	32.010	737.70	10.36	5.79	5.23	0.56
800.00	3.88	31.840	799.56	13.85	7.97	7.22	0.24
831.00	4.02	30.780	830.49	15.68	9.08	8.23	0.51
892.00	3.79	27.740	891.35	19.30	11.11	10.07	0.51
939.00	3.33	20.810	938.25	21.95	12.32	11.13	1.34
984.00	2.99	16.830	983.19	24.30	13.12	11.81	0.90
1,045.00	3.14	17.110	1,044.10	27.42	14.08	12.60	0.25
1,106.00	3.14	19.700	1,105.01	30.59	15.13	13.48	0.23
1,167.00	2.55	22.730	1,165.93	33.41	16.22	14.42	1.00
1,212.00	2.26	21.320	1,210.89	35.16	16.93	15.03	0.66
1,258.00	2.69	16.770	1,256.85	37.04	17.57	15.57	1.03
1,319.00	3.55	16.250	1,317.76	40.22	18.51	16.34	1.41
1,380.00	4.12	16.850	1,378.62	44.13	19.67	17.30	0.94
1,441.00	3.62	17.230	1,439.48	48.07	20.88	18.29	0.82
1,502.00	2.97	13.480	1,500.38	51.44	21.82	19.05	1.12
1,564.00	2.81	11.130	1,562.30	54.50	22.49	19.55	0.32
1,625.00	3.45	18.820	1,623.21	57.70	23.37	20.26	1.25
1,688.00	3.85	24.710	1,686.08	61.42	24.86	21.56	0.87
1,752.00	3.34	24.150	1,749.96	65.07	26.52	23.02	0.80
1,815.00	2.49	20.030	1,812.88	68.03	27.74	24.08	1.39
1,878.00	2.10	17.900	1,875.83	70.42	28.57	24.78	0.63
1,941.00	2.62	19.410	1,938.77	72.87	29.40	25.48	0.83
2,005.00	2.99	29.810	2,002.70	75.70	30.72	26.64	0.98
2,068.00	2.80	44.660	2,065.62	78.22	32.61	28.40	1.22
2,131.00	2.43	49.460	2,128.55	80.18	34.71	30.39	0.68
2,195.00	2.91	49.900	2,192.48	82.11	36.99	32.56	0.75
2,258.00	2.97	49.470	2,255.40	84.20	39.45	34.91	0.10
2,321.00	2.72	46.850	2,318.32	86.28	41.78	37.13	0.45
2,385.00	3.37	43.410	2,382.23	88.69	44.18	39.39	1.05
2,448.00	3.61	41.940	2,445.11	91.51	46.78	41.84	0.41
2,511.00	2.57	43.840	2,508.02	94.00	49.08	44.01	1.66
2,575.00	1.57	49.250	2,571.98	95.61	50.74	45.58	1.59
2,660.00	1.06	33.520	2,656.95	97.03	52.06	46.82	0.73
2,773.00	0.59	26.010	2,769.94	98.42	52.89	47.57	0.43
2,835.00	0.24	174.000	2,831.94	98.58	53.04	47.72	1.30
2,898.00	0.54	39.390	2,894.94	98.68	53.25	47.91	1.16

HALLIBURTON

Duchesne County, UT (NAD 1927)

Design Report for 9H-4-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
2,961.00	1.47	30.230	2,957.93	99.61	53.84	48.46	1.49
3,024.00	2.44	21.490	3,020.89	101.55	54.74	49.25	1.61
3,088.00	2.01	25.580	3,084.84	103.83	55.72	50.11	0.72
3,151.00	0.34	21.520	3,147.83	105.00	56.27	50.60	2.65
3,214.00	0.47	235.650	3,210.83	105.03	56.12	50.45	1.23
3,277.00	1.16	263.360	3,273.82	104.81	55.28	49.62	1.23
3,341.00	1.98	234.280	3,337.80	104.09	53.74	48.12	1.75
3,404.00	1.54	249.330	3,400.77	103.16	52.06	46.49	1.01
3,467.00	0.83	281.810	3,463.76	102.95	50.82	45.27	1.51
3,531.00	0.99	21.140	3,527.75	103.56	50.57	44.98	2.17
3,594.00	1.33	55.770	3,590.74	104.48	51.37	45.73	1.21
3,657.00	2.14	51.110	3,653.71	105.63	52.89	47.19	1.30
3,720.00	1.26	70.810	3,716.68	106.60	54.46	48.70	1.66
3,784.00	0.85	130.310	3,780.67	106.52	55.48	49.73	1.73
3,847.00	1.63	162.040	3,843.66	105.37	56.12	50.42	1.61
3,910.00	2.41	164.440	3,906.62	103.24	56.75	51.17	1.25
3,974.00	2.56	175.870	3,970.56	100.52	57.21	51.78	0.81
4,037.00	1.84	226.410	4,033.52	98.41	56.58	51.26	3.15
4,100.00	2.16	270.680	4,096.48	97.73	54.66	49.38	2.44
4,163.00	2.58	286.380	4,159.43	98.14	52.11	46.81	1.22
4,226.00	2.75	311.550	4,222.36	99.55	49.62	44.25	1.86
4,288.00	4.44	327.300	4,284.24	102.55	47.21	41.68	3.13
4,351.00	4.96	342.400	4,347.03	107.20	45.07	39.30	2.12
4,414.00	4.35	340.390	4,409.82	112.05	43.45	37.42	1.00
4,477.00	3.77	333.310	4,472.66	116.15	41.71	35.47	1.22
4,541.00	3.18	324.700	4,536.55	119.48	39.74	33.32	1.23
4,604.00	2.58	308.910	4,599.47	121.80	37.63	31.09	1.57
4,667.00	2.37	283.300	4,662.41	122.99	35.26	28.66	1.77
4,730.00	2.58	262.950	4,725.35	123.11	32.58	25.98	1.43
4,794.00	2.72	250.590	4,789.29	122.43	29.72	23.16	0.92
4,857.00	1.27	227.080	4,852.25	121.46	27.80	21.29	2.60
4,920.00	1.14	166.010	4,915.23	120.37	27.44	20.99	1.95
4,984.00	1.65	184.120	4,979.22	118.84	27.53	21.16	1.04
5,047.00	2.14	184.520	5,042.18	116.76	27.37	21.11	0.78
5,110.00	2.96	154.860	5,105.12	114.11	27.97	21.85	2.42
5,174.00	3.64	133.730	5,169.02	111.21	30.14	24.17	2.16
5,237.00	3.62	121.540	5,231.89	108.79	33.28	27.44	1.22
5,300.00	3.50	130.700	5,294.77	106.50	36.43	30.71	0.92
5,363.00	3.42	140.150	5,357.66	103.80	39.09	33.51	0.91
5,427.00	3.51	149.570	5,421.54	100.65	41.31	35.89	0.90
5,490.00	2.34	159.010	5,484.46	97.78	42.75	37.48	2.00
5,553.00	2.06	176.330	5,547.41	95.45	43.28	38.13	1.14
5,617.00	1.18	212.930	5,611.39	93.75	43.00	37.94	2.06
5,680.00	0.81	257.980	5,674.38	93.11	42.21	37.19	1.33
5,743.00	0.18	273.250	5,737.37	93.03	41.67	36.66	1.01
5,806.00	0.44	170.450	5,800.37	92.79	41.61	36.61	0.81
5,870.00	0.81	85.690	5,864.37	92.58	42.11	37.12	1.38
5,933.00	0.78	75.060	5,927.37	92.73	42.96	37.96	0.24
5,996.00	1.08	50.170	5,990.36	93.22	43.83	38.81	0.79
6,060.00	1.69	20.700	6,054.34	94.49	44.63	39.54	1.44
6,123.00	2.04	11.600	6,117.31	96.46	45.19	39.98	0.73



Design Report for 9H-4-45 BTR - Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
6,186.00	1.08	8.730	6,180.28	98.14	45.50	40.21	1.53
6,250.00	1.45	4.120	6,244.27	99.54	45.65	40.28	0.60
6,313.00	1.93	15.920	6,307.24	101.36	46.00	40.54	0.94
6,377.00	2.37	25.630	6,371.19	103.59	46.87	41.28	0.89
6,440.00	0.95	13.400	6,434.17	105.27	47.55	41.88	2.31
6,503.00	0.72	20.340	6,497.16	106.15	47.81	42.09	0.40
6,566.00	1.96	60.790	6,560.14	107.05	48.89	43.12	2.36
6,628.00	1.44	78.570	6,622.11	107.72	50.58	44.77	1.19
6,691.00	1.22	106.070	6,685.10	107.69	52.00	46.19	1.06
6,754.00	1.01	142.470	6,748.09	107.07	52.98	47.20	1.15
6,799.00	1.00	160.640	6,793.08	106.38	53.35	47.61	0.71
6,847.00	1.65	177.960	6,841.07	105.29	53.52	47.83	1.58
6,879.00	1.93	135.540	6,873.05	104.45	53.91	48.27	4.13
6,910.00	4.35	90.000	6,904.01	104.08	55.45	49.83	10.64
6,942.00	7.64	81.870	6,935.83	104.38	58.77	53.13	10.59
6,973.00	10.99	81.380	6,966.42	105.11	63.73	58.05	10.81
7,005.00	15.55	87.570	6,997.55	105.75	71.04	65.31	14.91
7,037.00	19.08	90.870	7,028.10	105.85	80.56	74.81	11.45
7,069.00	21.17	91.920	7,058.15	105.58	91.56	85.81	6.63
7,100.00	23.03	90.890	7,086.87	105.30	103.22	97.47	6.13
7,132.00	25.29	90.770	7,116.06	105.11	116.32	110.55	7.06
7,164.00	28.24	92.920	7,144.63	104.63	130.72	124.96	9.70
7,195.00	31.38	95.580	7,171.53	103.47	146.08	140.36	10.99
7,227.00	34.16	97.970	7,198.43	101.42	163.27	157.64	9.58
7,258.00	36.98	99.140	7,223.65	98.73	181.10	175.58	9.36
7,290.00	38.74	98.010	7,248.91	95.80	200.52	195.13	5.91
7,322.00	41.63	97.690	7,273.35	92.99	220.97	215.71	9.05
7,353.00	43.90	97.550	7,296.11	90.20	241.83	236.69	7.33
7,385.00	46.87	99.040	7,318.58	86.90	264.37	259.37	9.85
7,417.00	50.69	100.440	7,339.67	82.82	288.09	283.27	12.38
7,448.00	54.62	100.620	7,358.47	78.32	312.31	307.70	12.69
7,480.00	58.79	101.400	7,376.03	73.21	338.56	334.18	13.19
7,512.00	62.54	101.890	7,391.71	67.58	365.88	361.76	11.79
7,543.00	65.74	101.840	7,405.22	61.84	393.17	389.32	10.32
7,575.00	69.74	100.960	7,417.34	55.99	422.20	418.62	12.76
7,607.00	73.27	100.940	7,427.49	50.23	451.99	448.67	11.03
7,638.00	75.26	100.480	7,435.90	44.68	481.30	478.24	6.58
7,670.00	76.58	100.550	7,443.69	39.02	511.82	509.02	4.13
7,701.00	79.22	99.780	7,450.18	33.67	541.65	539.09	8.86
7,724.00	82.48	99.030	7,453.84	29.96	564.05	561.66	14.53
7,828.00	89.60	95.990	7,461.02	16.42	666.84	665.02	7.44
7,922.00	91.04	97.310	7,460.49	5.54	760.20	758.82	2.08
8,017.00	92.12	98.920	7,457.87	-7.86	854.21	853.41	2.04
8,112.00	93.09	100.340	7,453.56	-23.74	947.77	947.69	1.81
8,207.00	92.19	100.130	7,449.18	-40.60	1,041.16	1,041.84	0.97
8,301.00	91.28	99.080	7,446.34	-56.28	1,133.79	1,135.18	1.48
8,396.00	89.73	95.880	7,445.50	-68.64	1,227.97	1,229.88	3.74
8,491.00	90.81	97.230	7,445.05	-79.49	1,322.34	1,324.70	1.82
8,586.00	89.43	96.290	7,444.85	-90.67	1,416.68	1,419.50	1.76
8,680.00	88.29	93.340	7,446.72	-98.56	1,510.32	1,513.42	3.36



Design Report for 9H-4-45 BTR -Sperry Final Surveys

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)
8,775.00	87.01	92.990	7,450.62	-103.80	1,605.09	1,608.34	1.40
8,870.00	86.77	96.360	7,455.77	-111.53	1,699.62	1,703.15	3.55
8,965.00	89.29	100.240	7,459.04	-125.23	1,793.54	1,797.67	4.87
9,059.00	89.90	101.370	7,459.70	-142.85	1,885.87	1,890.80	1.37
9,154.00	89.03	100.410	7,460.59	-160.80	1,979.15	1,984.91	1.36
9,249.00	90.30	101.150	7,461.15	-178.57	2,072.47	2,079.04	1.55
9,343.00	90.20	102.320	7,460.74	-197.69	2,164.51	2,171.96	1.25
9,438.00	91.92	101.320	7,458.98	-217.14	2,257.47	2,265.83	2.09
9,533.00	94.07	100.140	7,454.01	-234.80	2,350.68	2,359.85	2.58
9,628.00	93.02	98.190	7,448.14	-249.90	2,444.28	2,454.12	2.33
9,723.00	91.18	96.170	7,444.66	-261.77	2,538.46	2,548.80	2.88
9,817.00	86.87	95.890	7,446.26	-271.64	2,631.91	2,642.64	4.59
9,912.00	89.06	96.490	7,449.63	-281.88	2,726.29	2,737.43	2.39
10,007.00	88.59	96.260	7,451.58	-292.42	2,820.68	2,832.25	0.55
10,101.00	88.39	95.950	7,454.06	-302.41	2,914.11	2,926.08	0.39
10,196.00	86.64	95.480	7,458.18	-311.87	3,008.55	3,020.89	1.91
10,291.00	87.21	96.770	7,463.27	-321.99	3,102.87	3,115.61	1.48
10,386.00	89.76	97.670	7,465.78	-333.92	3,197.07	3,210.32	2.85
10,480.00	90.47	97.640	7,465.59	-346.44	3,290.23	3,304.01	0.76
10,575.00	90.24	97.480	7,465.01	-358.94	3,384.41	3,398.72	0.29
10,670.00	91.68	97.760	7,463.41	-371.54	3,478.55	3,493.40	1.54
10,765.00	91.72	97.780	7,460.60	-384.38	3,572.64	3,588.04	0.05
10,859.00	93.09	97.780	7,456.65	-397.09	3,665.69	3,681.63	1.46
10,954.00	91.78	98.210	7,452.62	-410.29	3,759.68	3,776.19	1.45
11,049.00	89.60	97.030	7,451.47	-422.88	3,853.82	3,870.88	2.61
11,143.00	89.40	96.880	7,452.29	-434.27	3,947.13	3,964.66	0.27
11,218.00	90.20	96.870	7,452.55	-443.24	4,021.59	4,039.49	1.07
Last Sperry MWD Survey @ 11218.00' MD							
11,290.00	90.20	96.870	7,452.30	-451.86	4,093.07	4,111.33	0.00
Straight Line Projection to TD @ 11290.00' MD							

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
153.00	153.00	-0.35	-0.27	First Sperry MWD Survey @ 153.00' MD
11,218.00	7,452.55	-443.24	4,021.59	Last Sperry MWD Survey @ 11218.00' MD
11,290.00	7,452.30	-451.86	4,093.07	Straight Line Projection to TD @ 11290.00' MD

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/-S (ft)	+E/-W (ft)	
Target	9H-4-45 BTR_BHL Plat	93.053	S lot	0.00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
153.00	11,290.00	Sperry Final Surveys	MWD

Design Report for 9H-4-45 BTR –Sperry Final Surveys

Targets

Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
9H-4-45 BTR_Section	0.00	0.00	0.00	0.00	0.00	667,331.63	2,290,015.93	40° 9' 39.200 N	110° 27' 44.309 W
-actual wellpath hits target center									
-Polygon									
Point 1				4,811.93	455.90	667,843.28	2,294,821.84		
Point 2				-463.00	475.40	667,801.59	2,289,547.49		
Point 3				-463.00	-2,180.00	665,146.59	2,289,578.29		
Point 4				4,811.93	-2,199.32	665,188.47	2,294,852.64		
Point 5				4,811.93	3,111.10	670,498.08	2,294,791.04		
Point 6				-463.00	3,088.33	670,414.12	2,289,517.18		
Point 7				-463.00	475.40	667,801.59	2,289,547.49		
Point 8				4,811.93	455.90	667,843.28	2,294,821.84		
9H-4-45 BTR_SHL	0.00	0.00	0.00	0.00	0.00	667,331.63	2,290,015.93	40° 9' 39.200 N	110° 27' 44.309 W
-actual wellpath hits target center									
-Point									
9H-4-45 BTR_Setback	0.00	0.00	0.00	0.00	0.00	667,331.63	2,290,015.93	40° 9' 39.200 N	110° 27' 44.309 W
-actual wellpath hits target center									
-Polygon									
Point 1				4,151.93	-1,539.32	665,840.71	2,294,185.09		
Point 2				4,151.93	455.90	667,835.63	2,294,161.94		
Point 3				4,151.93	2,450.22	669,829.64	2,294,138.81		
Point 4				197.00	2,428.33	669,761.88	2,290,184.73		
Point 5				197.00	475.40	667,809.25	2,290,207.39		
Point 6				197.00	-1,520.00	665,814.15	2,290,230.54		
Point 7				4,151.93	-1,539.32	665,840.71	2,294,185.09		
9H-4-45 BTR Plan D_I	0.00	0.00	7,427.00	-464.20	4,084.58	666,914.89	2,294,105.28	40° 9' 34.610 N	110° 26' 51.702 W
-actual wellpath misses target center by 28.59ft at 11283.14ft MD (7452.33 TVD, -451.04 N, 4086.26 E)									
-Point									

North Reference Sheet for Sec. 4-T4S -R5W -9H-4-45 BTR -Plan D

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

Vertical Depths are relative to RKB 22' @ 5912.00ft (Nabors M22). Northing and Easting are relative to 9H-4-45 BTR

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

Projection method is Lambert Conformal Conic (2 parallel)

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

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991496

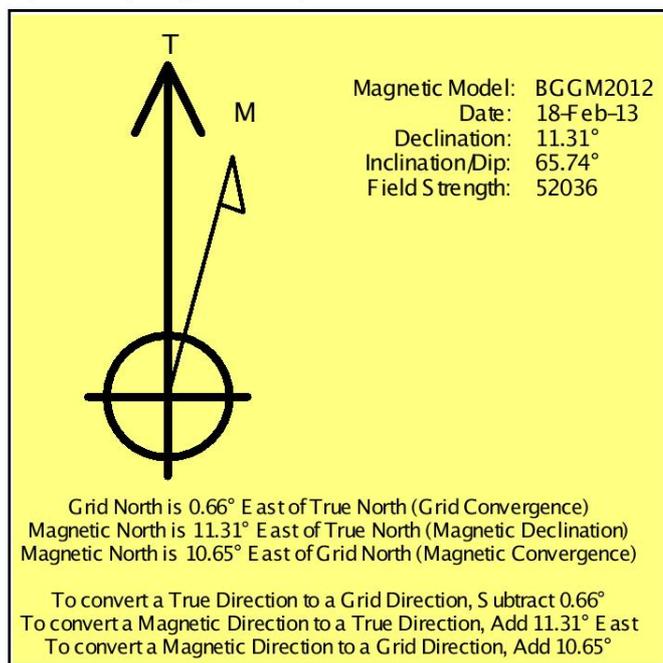
Grid Coordinates of Well: 667,331.63 ft N, 2,290,015.93 ft E

Geographical Coordinates of Well: 40° 09' 39.20" N, 110° 27' 44.31" W

Grid Convergence at S surface is: 0.66°

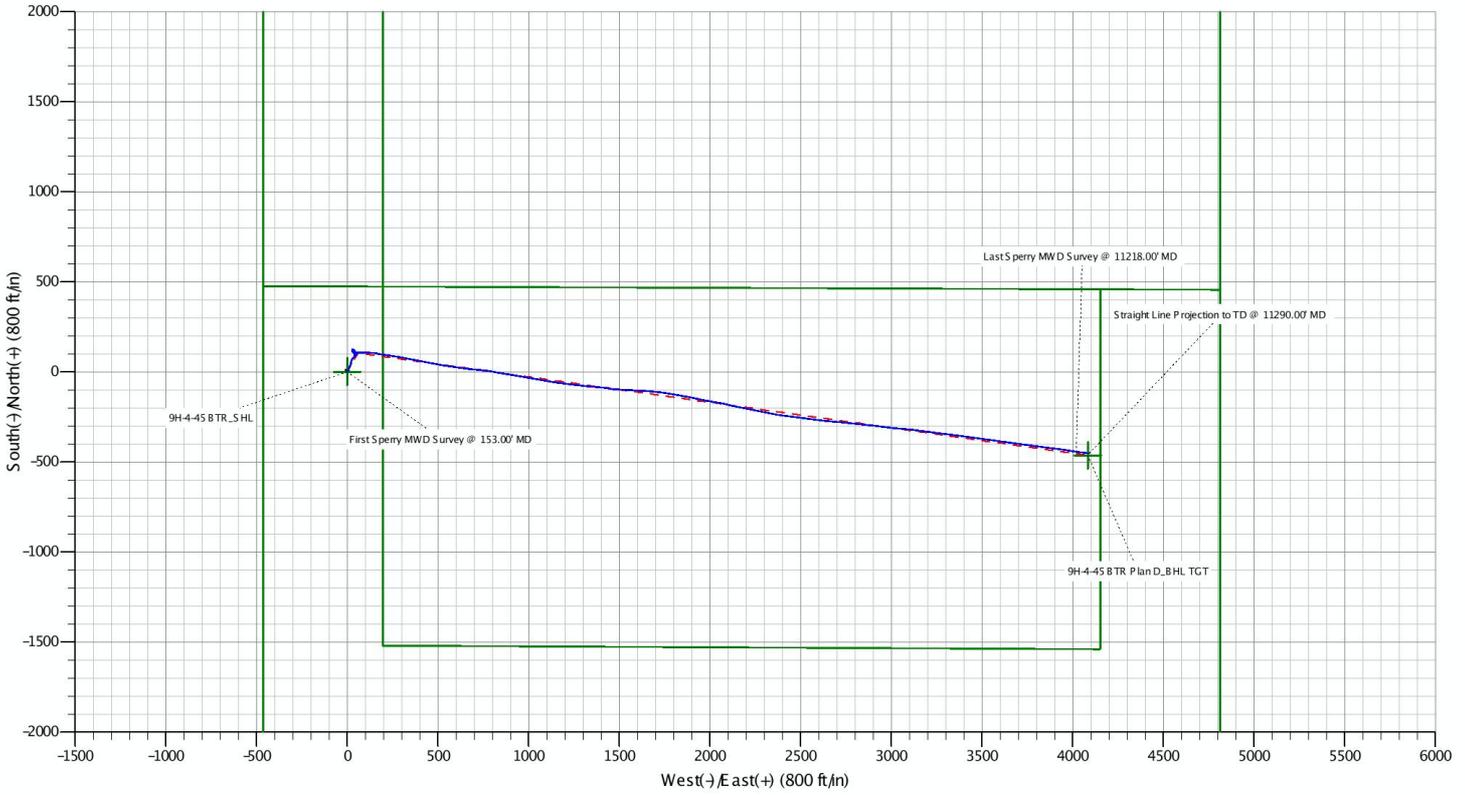
Based upon Minimum Curvature type calculations, at a Measured Depth of 11,290.00ft
the Bottom Hole Displacement is 4,117.94ft in the Direction of 96.30° (True).

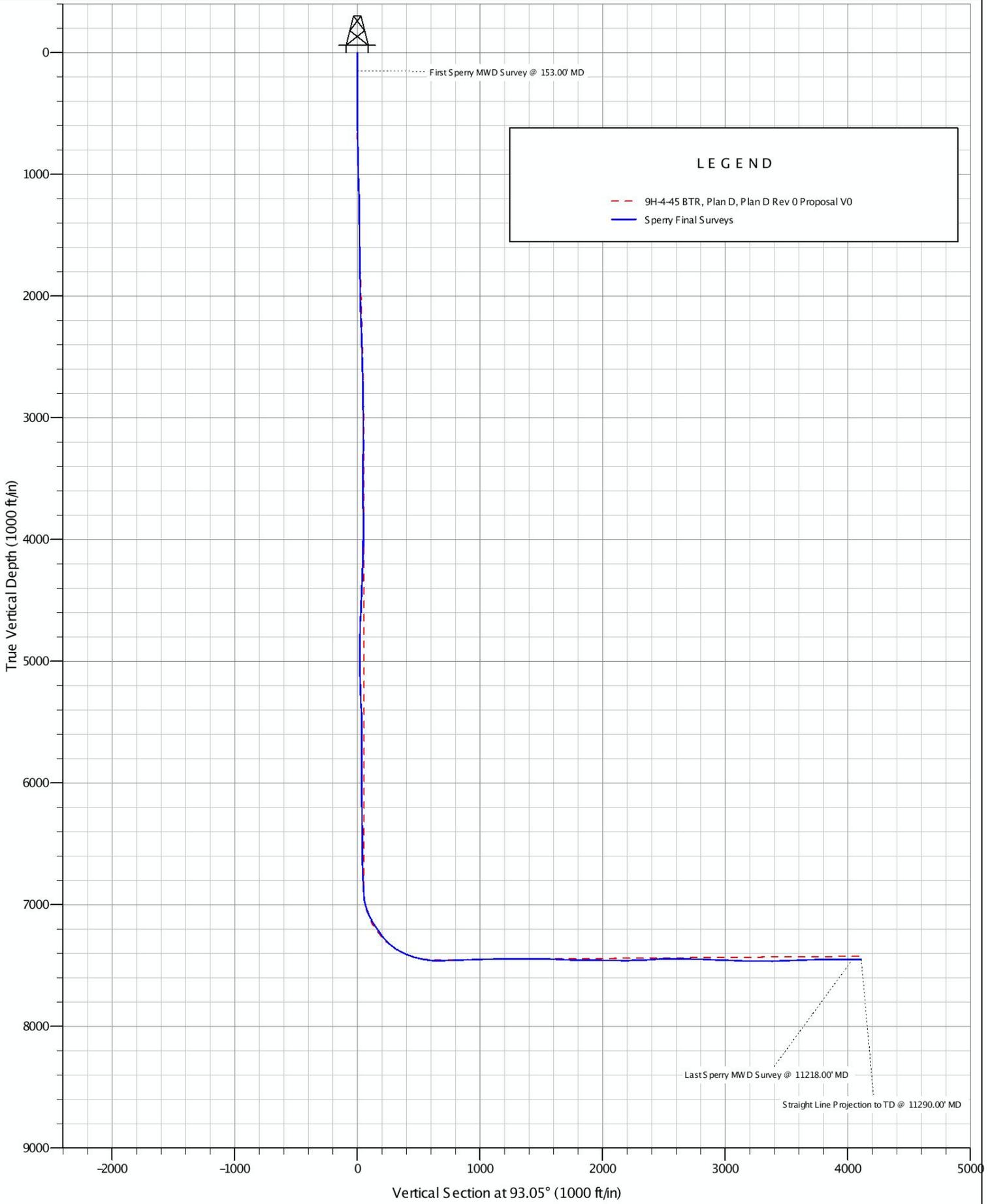
Magnetic Convergence at surface is: -10.65° (18 February 2013, , BGGM2012)



LEGEND

- 9H-4-45 BTR, Plan D, Plan D Rev 0 Proposal V0
- Sperry Final Surveys







9H-4-45 BTR 2/15/2013 18:00 - 2/16/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	8.00	02:00	1	RIGUP & TEAR DOWN	Walk rig to new well. RURT.
02:00	4.00	06:00	20	DIRECTIONAL WORK	P/U directional tools.

9H-4-45 BTR 2/16/2013 06:00 - 2/17/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	20	DIRECTIONAL WORK	P/U dir tools. Rig having tong trouble.
07:00	12.00	19:00	2	DRILL ACTUAL	Spud well @ 07:00. Steerable drlg 80' -380'.
19:00	1.00	20:00	7	LUBRICATE RIG	Rig service. Clean out flowline.
20:00	10.00	06:00	2	DRILL ACTUAL	Steerable drlg 380' -800'. Wob 10k, spp 900 psi, dp 250 psi, rop 42 fph.

9H-4-45 BTR 2/17/2013 06:00 - 2/18/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable drlg 800' -901'.
08:00	1.00	09:00	20	DIRECTIONAL WORK	Working on MWD.
09:00	0.50	09:30	2	DRILL ACTUAL	Steerable drlg 901 -964'.
09:30	1.00	10:30	20	DIRECTIONAL WORK	Working on MWD.
10:30	2.50	13:00	6	TRIPS	Pump slug, Toh f/MWD. Check MM, bit.
13:00	1.50	14:30	20	DIRECTIONAL WORK	X/O MWD.
14:30	2.50	17:00	6	TRIPS	Tih. Scribe string f/MM, take check shots.
17:00	13.00	06:00	2	DRILL ACTUAL	Steerable drlg 964' -1794'. Wob 20k, rpm 48, spp 1750 psi, dp 300 psi, 760 gpm, rop 64 fph.

9H-4-45 BTR 2/18/2013 06:00 - 2/19/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	2	DRILL ACTUAL	Steerable drlg 1794' -2268'.
13:00	0.50	13:30	7	LUBRICATE RIG	Rig service. Bop drill.
13:30	6.00	19:30	2	DRILL ACTUAL	Steerable drlg 2268' -2733'. wob 25k, rpm 55/132, spp 2100 psi, dp 300 psi, rop 78 fph. TD surface.
19:30	1.50	21:00	5	COND MUD & CIRC	C&C f/csg. S sweep hole, circ clean. Pump pill.
21:00	5.00	02:00	6	TRIPS	Toh. L/d 8" tools.
02:00	4.00	06:00	12	RUN CASING & CEMENT	HSM. R/U Kimzey casers, Run 9 5/8", 36#, J-55, STC csg as follows: guide shoe, 1 jt csg, float collar, 61 jts csg. Ran 1900' csg @ report time.

9H-4-45 BTR 2/19/2013 06:00 - 2/20/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	12	RUN CASING & CEMENT	Finish running surf csg, land @ 2730'. R/d casers.
07:00	2.00	09:00	5	COND MUD & CIRC	Circulate, rig up cementers.
09:00	3.00	12:00	12	RUN CASING & CEMENT	Cement surface as follows: Pressure test lines to 2000 psi. Pump 20 bbls H2O, 40 bbls Super Flush, 20 bbls H2O. Mix and pump 248 bbls(440 sx) lead cmt @ 11 ppg, 3.16 yld, 19.48 gps H2O. Tail in w/57 bbls(240 sx) @ 14.8 ppg, 1.33 yld, 6.31 gps H2). Displace w/208 bbls drilling mud. Max pressure 560 psi, bump plug to 1000 psi. Bled back 1 bbl, floats held. Cement held @ ground level, no top job. R/D cementers. 170 bbls cmtback to surface. Reciprocated pipe until displacement.
12:00	3.00	15:00	13	WAIT ON CEMENT	W.O.C.
15:00	4.00	19:00	21	OPEN	Lift up riser, cut off csg, l/d riser, csg stub. Weld on drill through wellhead.
19:00	4.00	23:00	14	NIPPLE UP B.O.P	NUBOPE.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
23:00	4.50	03:30	15	TEST B.O.P	Test BOP. Test lower kelly valve, safety valve, dart valve, pipe and blind rams, choke line and manifold, kill line valve to 5000 psi/250 psi. Test annular to 2500/250 psi. Test csg to 1500 psi f/30 minutes. P erformed accumulator function test.	
03:30	2.50	06:00	20	DIRECTIONAL WORK	P/U BHA # 2.	

9H-4-45 BTR 2/20/2013 06:00 - 2/21/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	2.50	08:30	6	TRIPS	Tih to 1750'.	
08:30	1.50	10:00	9	CUT OFF DRILL LINE	Cut and slip drill line.	
10:00	1.50	11:30	6	TRIPS	Tih. Tag cement @ 2670'.	
11:30	2.00	13:30	21	OPEN	Drill cement, fit equip, 20' new hole to 2753'. F.I.T to 143 psi f/10# emw.	
13:30	4.00	17:30	2	DRILL ACTUAL	S teerable drlg 2753' - 3169'. wob 20k, rpm 55/77, spp 1700 psi, dp 250 psi, rop 104 fph.	
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service. BOP drill daylights.	
18:00	11.50	05:30	2	DRILL ACTUAL	S teerable drlg 3169' - 4118'. Wob 20k, rpm 55/77, spp 2100 psi, dp 200 psi, rop 83 fph.	
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service. BOP drill morning tour.	

9H-4-45 BTR 2/21/2013 06:00 - 2/22/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	2	DRILL ACTUAL	S teerable drlg 4118' - 4181'.	
07:00	0.50	07:30	7	LUBRICATE RIG	Rig Service.	
07:30	21.50	05:00	2	DRILL ACTUAL	S teerable drlg 4181' - 5730'. wob 25k, rop 55/65, spp 1650 psi, dp 200 psi, rop 72 fph.	
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.	
05:30	0.50	06:00	2	DRILL ACTUAL	S teerable drlg 5730' - 5792'. wob 25k, rop 55/65, spp 1650 psi, dp 200 psi, rop 124 fph.	

9H-4-45 BTR 2/22/2013 06:00 - 2/23/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	7.50	13:30	2	DRILL ACTUAL	S teerable drlg 5792' - 6204'. wob 25k, rpm 55/65, spp 1850 psi, dp 200 psi, rop 55 fph.	
13:30	0.50	14:00	7	LUBRICATE RIG	Rig Service.	
14:00	12.50	02:30	2	DRILL ACTUAL	S teerable drlg 6204' - 6880'. wob 25k, rpm 55/65, spp 21000 psi, dp 250 psi, rop 54 fph.	
02:30	2.50	05:00	5	COND MUD & CIRC	C&C, spot lcm pill.	
05:00	0.50	05:30	7	LUBRICATE RIG	Rig Service.	
05:30	0.50	06:00	6	TRIPS	Pull 10 stds, flow check.	

9H-4-45 BTR 2/23/2013 06:00 - 2/24/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	5.50	11:30	6	TRIPS	Toh.	
11:30	1.00	12:30	7	LUBRICATE RIG	Rig Service. X/O inside rubber on rot head. Function blind rams.	
12:30	5.00	17:30	6	TRIPS	Tih.	
17:30	1.00	18:30	5	COND MUD & CIRC	Circ slow pump, lost 50 bbls.	
18:30	1.50	20:00	2	DRILL ACTUAL	S teerable drlg 6880' - 6938'. Wob 25k, rpm 25/135, spp 2000 psi, dp 200 psi, rop 39 fph.	
20:00	1.00	21:00	7	LUBRICATE RIG	Replace wash pipe on top drive, Rig service.	
21:00	9.00	06:00	2	DRILL ACTUAL	S teerable drlg 6938' - 7170'. Wob 25k, rpm 25/135, spp 2000 psi, dp 200 psi, rop 26 fph.	

**9H-4-45 BTR 2/24/2013 06:00 - 2/25/2013 06:00**

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	Steerable drlg 7170' - 7324'. wob 25k, rpm 25/135, spp 2000 psi, dp 150 psi, rop 28 fph.
11:30	0.50	12:00	7	LUBRICATE RIG	Rig Service.
12:00	15.50	03:30	2	DRILL ACTUAL	Steerable drlg 7324' - 7790'. wob 25k, rpm 25/135, spp 2200 psi, dp 150 psi, rop 31 fph. TD intermediate @ 7790'.
03:30	2.50	06:00	5	COND MUD & CIRC	C&C mud, run sweeps. Spot lcm pill.

9H-4-45 BTR 2/25/2013 06:00 - 2/26/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	Toh to KOP. Trip went good, no pump or rotate.
07:30	1.00	08:30	5	COND MUD & CIRC	Pump pill, blow down top drive and mud lines.
08:30	5.50	14:00	6	TRIPS	Toh. L/D dir tools.
14:00	9.00	23:00	6	TRIPS	Caliper and Tally reamers, Hole opener. Tih w/reaming assbly(HO, Reamer, 1 jt DP, Reamer, 29 jts DP, 42 jts HWDP). Light reaming, hole stable.
23:00	2.50	01:30	5	COND MUD & CIRC	C&C mud. Sweep hole twice, clean up shakers.
01:30	3.00	04:30	6	TRIPS	Tried to pull reamers to KOP, had to backream.
04:30	1.50	06:00	3	REAMING	Reream curve.

9H-4-45 BTR 2/26/2013 06:00 - 2/27/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	3	REAMING	Ream curve -light reaming. Sweep hole, clean up.
09:30	2.00	11:30	3	REAMING	Pulled 1 1/2 stands w/out pump, had to backream rest of way to KOP.
11:30	9.00	20:30	6	TRIPS	Toh to 6000'. Pump pill. LDDP. Pull wear bushing.
20:30	9.50	06:00	12	RUN CASING & CEMENT	HSM. R/U Weatherford TRS, run 7" csg, 4100' @ report time. Details on next report.

9H-4-45 BTR 2/27/2013 06:00 - 2/28/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	22.50	04:30	12	RUN CASING & CEMENT	Finish running 7", 26#, P-110, LT&C Csg as follows: Davis Lynch Ream Master float shoe, 2 jts csg, Super Seal float collar, 193 jts csg. Stopped flowing @ 4000', stopped @ 4456' and got back 30% circ - pumped lcm sweep, spotted lcm pill, continue tih. Stopped @ 6800' to circ pill out; 30% returns, spot lcm pill. R/U long bales and Volant csg tool. Continue in hole. Land casing mandrel in head, csg shoe @ 7777'.
04:30	1.50	06:00	5	COND MUD & CIRC	C&C f/cement. 40% returns @ 30 strokes.

9H-4-45 BTR 2/28/2013 06:00 - 3/1/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	12	RUN CASING & CEMENT	HSM. R/U HES and cement intermediate as follows: Press test to 5000 psi. pump 40 bbls Superflush, 10 bbls H2O, mix and pump 210 bbls (500 sx) lead cmt @ 11 ppg, 2.32 yld, 10.61 gps. Tail in w/80 bbls(320 sx) cmt @ 13.5 ppg, 1.43 yld, 6.65 gps. Drop top plug, wash pumps and lines on plug, displace w/293 bbls 9.3 ppg mud. 70% returns, no cement to surface. Max pressure 1450 psi, bump plug with 2100 psi. Bled back 2.5 bbl, floats held. R/D HES. Cement in place @ 09:30.
10:30	6.50	17:00	21	OPEN	Rig down HES. Lay down landing jt. Set packoff and bit guide. Rig up for 4" drill pipe. Test casing and blind rams to 1500# for 15 min.
17:00	2.00	19:00	21	OPEN	Rack & Strap BHA and drillpipe.
19:00	2.00	21:00	20	DIRECTIONAL WORK	Pickup 4 3/4" Hunting .26 rpg motor and MWD etc. Orient dir eq.
21:00	1.00	22:00	6	TRIPS	P/U 36 jts drillpipe
22:00	1.50	23:30	9	CUT OFF DRILL LINE	Slip and cut drlg line



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
23:30	1.00	00:30	21	OPEN	Test Pipe rams 1500# for 15 min.	
00:30	5.50	06:00	6	TRIPS	P/U drillpipe.	

9H-4-45 BTR 3/1/2013 06:00 - 3/2/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	7.00	13:00	6	TRIPS	Finish P/U 4" XT39 drillpipe	
13:00	1.00	14:00	15	TEST B.O.P	Pressure test Csg 250# for 5 min, 2000# for 30 min	
14:00	1.00	15:00	2	DRILL ACTUAL	Tag float @ 7683'. Drill out float eq.	
15:00	2.50	17:30	2	DRILL ACTUAL	Drill/slide 7790-7931'. Survey @ 7922'. 91.04 inc 97.31 az. MW 9.3#/gal 50 vis PH 9.8	
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service, function test BOP.	
18:00	11.50	05:30	2	DRILL ACTUAL	Drill/slide 7931-8563'. Survey @ 8396'. 89.73* inc 95.88 az MW 9.3#/gal 50 vis PH 9.8 2% diesel. Gamma count 5.0	

9H-4-45 BTR 3/2/2013 06:00 - 3/3/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	10.50	16:30	2	DRILL ACTUAL	Drlg 8563-9037 474' in 10.5 hrs 45 fph survey @ 8965' 89.29* inc 100.24 az MW 9.3#/gal 50 vis 9.8 ph 4.6 WL	
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service, function test BOP	
17:00	13.00	06:00	2	DRILL ACTUAL	Drill/slide 9037-9700'. 663' in 13 hrs 51 fph. Survey @ 9533'. 94.07* inc 100.14* az MW 9.35#/gal 49 vis 9.8 ph 4.6 WIGamma 63	

9H-4-45 BTR 3/3/2013 06:00 - 3/4/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	10.00	16:00	2	DRILL ACTUAL	Drill/slide 9700-10174'. 474' in 10 hrs survey @ 10101 88.39* inc 95.95* az. MW 9.3#/gal 52 vis	
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service Function test BOP	
16:30	13.00	05:30	2	DRILL ACTUAL	Drill/slide 10174-10742'. 568' in 13 hrs 44 fph. Survey @ 10575' 90.24* inc 97.48 az. MW 9.3#/gal 53 vis 4.4 WL 10.1 ph lube 1%	

9H-4-45 BTR 3/4/2013 06:00 - 3/5/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	11.00	17:00	2	DRILL ACTUAL	Drlg 10742-11290'(TD). 548' in 11 hrs, 50 fph. Survey @ 11290 90.96* inc 96.75 az MW 9.3#/gal 50 vis 9.8 ph 5 wl	
17:00	0.50	17:30	7	LUBRICATE RIG	Rig service. function test BOP	
17:30	3.00	20:30	5	COND MUD & CIRC	Pump sweeps While rotating and working pipe till shaker are clea.	
20:30	6.00	02:30	2	DRILL ACTUAL	Pull 10 stds. Pulled smoothly with no pump or rotation. Pump dryjob and blow down TD. TOH.	
02:30	2.50	05:00	20	DIRECTIONAL WORK	L/D Dir equipment.	
05:00	1.00	06:00	6	TRIPS	P/U reaming assembly.	

9H-4-45 BTR 3/5/2013 06:00 - 3/6/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	5.00	11:00	6	TRIPS	P/U reaming assembly 6 1/8" insert bit, bit sub, 1 jt drillpipe, reamer, 1 jt drillpipe, reamer and TIH to csg shoe @ 7777'. Fill pipe 2600.4600 & 6600.	
11:00	14.00	01:00	3	REAMING	Wash and ream from casing shoe. Work tight spot 9820-9970'. Ream to bottom.	
01:00	2.00	03:00	5	COND MUD & CIRC	Pump 2 sweeps 20 min apart. Rig up HES for fluid caliper.	



9H-4-45 BTR 3/17/2013 06:00 - 3/18/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

9H-4-45 BTR 3/18/2013 06:00 - 3/19/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

9H-4-45 BTR 3/19/2013 06:00 - 3/20/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	BATTERY UNDER CONSTRUCTION

9H-4-45 BTR 3/21/2013 06:00 - 3/22/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	2.00	09:00	SRIG	Rig Up/Down	MIRI RIG & EQUIPMENT.
09:00	3.00	12:00	BOP1	Install BOP's	N/D WELLHEAD. N/U BOP. CHANGE RAMS TO 4-1/2. LOAD 182 JTS 4-1/2 CSG ON PIPE RACKS & TALLY. R/U WEATERFORD CSG CREW.
12:00	5.00	17:00	RUTB	R un Tubing	P/U HALLIBURTON PBR SEAL ASSEMBLY. RIH TO 5164' P/U 4-1/2", 11.6#, P-110 CSG. DUE TO VERY HIGH WINDS. SWIFN.
17:00	13.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. HOLD SAFETY MEETING.

9H-4-45 BTR 3/22/2013 06:00 - 3/23/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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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	3.00	10:00	RUTB	R un Tubing	FINISH RIH TO TIEBACK RECEPTACLE @ 6780' W /HALLIBURTON PBR SEAL ASSEMBLY P/U 4-1/2", 11.6#, P-110 CSG. TORQUE CSG TO 3020#.
10:00	2.00	12:00	GOP	General Operations	STING IN & SPACE OUT. CIRC WELL W /2% KCL. LAND CSG IN 20K COMPRESSION. LOCK IN HANGER. PRESSURE TEST ANNULUS TO 2000 PSI FOR 15 MIN. HELD GOOD. R/D WEATHERFORD CSG CREW. CSG DETAIL KB 22.00 HANGER .75 40K COMPRESSION -3.00 1JT 4-1/2" CSG 41.65 4-1/2" PUP JT 10.00 4-1/2" PUP JT 8.00 4-1/2" PUP JT 8.00 160-JTS 4-1/2" CSG 6708.90 PBR 13.25
12:00	1.00	13:00	IWHD	Install Wellhead	N/D BOP. N/U 4-1/16" 10K FRAC TREE.
13:00	4.00	17:00	PTST	Pressure Test	R/U BASIC ENERGY. PRESSURE UP ON RSI SLEEVE TO 8300 PSI & OPEN SLEEVE. PUMP 1500 GAL 15% ACID, PUMPING INTO @ 10 BPM @ 3020 PSI. R/U SLB WIRELINE. RIH W/HES 4.5 DUMMY PLUG. PUMP PLUG DOWN HOLE TO RSI SLEEVE @ 11,148. POOH. R/D BASIC & SLB.
17:00	1.00	18:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. MOL. SDFN.
18:00	10.00	04:00	CTRL	Crew Travel	WELL SHUT IN & SECURE.

9H-4-45 BTR 3/29/2013 06:00 - 3/30/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Construction Crew Working On Facilities. Finish Setting Frac Line/Filling	

9H-4-45 BTR 3/30/2013 06:00 - 3/31/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Filling Frac Line. Rig Up FlowBack And SandTrap. Begin Loading Acid.	

9H-4-45 BTR 3/31/2013 06:00 - 4/1/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	Filling Frac Line.	

9H-4-45 BTR 4/1/2013 06:00 - 4/2/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	Construction Crew Working On Facilities. Loading Acid. Filling Frac Line.	

9H-4-45 BTR 4/2/2013 06:00 - 4/3/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	Construction Crew Working On Facilities. Finish Filling Frac Line. Set Sand Storage.	

9H-4-45 BTR 4/3/2013 06:00 - 4/4/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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 FRAC LINE. PRES TEST FLOW BACK EQUIP.	

9H-4-45 BTR 4/4/2013 06:00 - 4/5/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	MIRU SLB. MIRU BASIC FRAC FLEET.	

9H-4-45 BTR 4/5/2013 06:00 - 4/6/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	FRAC ON 12-4D-45	

9H-4-45 BTR 4/6/2013 06:00 - 4/7/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	15.00	21:00	LOCL	Lock Wellhead & Secure	WSI And Secured	
21:00	1.34	22:20	SRIG	Rig Up/Down	MORU From 12-4D-45 BTR. WireLine Swap Out To 4" 10K Lubricator. Arm Stage 1 Gun. Pressure Up On Annulus To 1800 Psi..	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
22:20	1.75	00:05	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Perforate Stage 1 UteLand Butte Zone, 10,853 - 11,007'. 28 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
00:05	0.08	00:10	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well.
00:10	0.33	00:30	FRAC	Frac. Job	Acidize Stage 1. Open Well, 1,570 Psi. ICP. BrokeDown At 9.6 Bpm And 3,490 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,670 Psi.. 0.72 Psi./Ft. F.G.. WSI And Secured. Total Clean - 32,298 Gals.. 769 Bbls.. BWTR - 650 Bbls. Max. Rate - 66.0 Bpm Avg. Rate - 63.0 Bpm Max. Psi. - 6,630 Psi. Avg. Psi. - 5,860 Psi.
00:30	0.17	00:40	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
00:40	1.67	02:20	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 10,778'. 2,200 Psi.. Perforate Stage 2 UteLand Butte Zone, 10,399 - 10,703'. 44 Holes. 2,100 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
02:20	0.17	02:30	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
02:30	0.33	02:50	FRAC	Frac. Job	Acidize Stage 2. Open Well, 1,840 Psi. ICP. BrokeDown At 20.8 Bpm And 3,360 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,460 Psi.. 0.70 Psi./Ft. F.G.. WSI And Secured. Total Clean - 26,628 Gals.. 634 Bbls.. BWTR - 634 Bbls. Max. Rate - 60.0 Bpm Avg. Rate - 50.0 Bpm Max. Psi. - 6,460 Psi. Avg. Psi. - 4,996 Psi.
02:50	0.17	03:00	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
03:00	1.58	04:35	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 10,324'. 2,100 Psi.. Perforate Stage 3 UteLand Butte Zone, 9,945 - 10,249'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
04:35	0.08	04:40	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
04:40	0.34	05:00	FRAC	Frac. Job	Acidize Stage 3. Open Well, 1,740 Psi. ICP. BrokeDown At 19.1 Bpm And 3,170 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,440 Psi.. 0.71 Psi./Ft. F.G.. WSI And Secured. Total Clean - 25,200 Gals.. 600 Bbls.. BWTR - 600 Bbls. Max. Rate - 55.0 Bpm Avg. Rate - 48.0 Bpm Max. Psi. - 6,430 Psi. Avg. Psi. - 5,850 Psi.
05:00	0.17	05:10	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
05:10	0.83	06:00	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. CREW CHANGE. HSM. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 9,870'. 2,100 Psi.. Perforate Stage 4 UteLand Butte Zone, 9,500 - 9,795'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.

9H-4-45 BTR 4/7/2013 06:00 - 4/8/2013 06:00

API/Well 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	PFRT	Perforating	Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 9,870'. 2,100 Psi.. Perforate Stage 4 UteLand Butte Zone, 9,500 - 9,795'. 44 Holes. 1,900 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured. TURN OVER TO BASIC.
07:00	2.00	09:00	FRAC	Frac. Job	CHANGE OUT SWEDGE IN CSG VALVE. PRESSURE TEST. FOUND LEAKING PUMP. CONT W/4 PUMPS PRES TEST LINES TO 9000 PSI. ACIDIZE STAGE 4. PERFS 9500'-9795'. 44 HOLES IN 11' NET. OPEN WELL W/1700 PSI AT 08:29. LET BALL FALL FOR 10 MIN. BD 30.0 BPM AT 6120 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/167.5 BBLs. ISIP 2470 PSI. FG .75. BWTR 510.5 BBLs MR 42.2. AR 27.1. MP 7422. AP 5030. TURN OVER TO SLB W/2400 PSI. SOMEONE LEFT VALVE ON ACID TANK OPEN. HAD ACID IN FLUSH. ACID RAN INTO ALUMINUM MANIFOLD AND ATE A HOLE IN IT. HAVE ACID FLOW BACK INTO PW TANKS. PERF STG 5 BECAUSE WL ALREADY IN HOLE.
09:00	1.50	10:30	PFRT	Perforating	PERF STG 5-PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/116 BBLs. SET CFP AT 9425'. PERF UTELAND BUTTE FORM 9037'-9341'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
10:30	2.00	12:30	DTIM	Downtime	PUMP MANIFOLD DRY TO FBT. DRAIN HOSES WITH WTR TRUCK. REMOVE ALL HOSES. CLEAR WORK AREA. HAVE LEAKING FITTINGS ON ACID TANKS. DRAIN HOSES AND FIX. HOLD SAFETY MTG. RESUME FRAC JOB.
12:30	0.75	13:15	FRAC	Frac. Job	ACID STAG 5. PRES TEST LINES TO 9000 PSI. ACIDIZE PERFS 9037'-9341'. 44 HOLES IN 11' NET. OPEN WELL W/1640 PSI AT 12:37. LET BALL FALL FOR 10 MIN. BD 18.6 BPM AT 5350 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W/160.2 BBLs ISIP 2470 PSI. FG .75. BWTR 510.5 BBLs MR 42.2. AR 27.1. MP 7422. AP 5030. TURN OVER TO SLB W/2400 PSI.
13:15	1.50	14:45	PFRT	Perforating	PERF STG 6-PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W/2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W/71 BBLs. SET CFP AT 8962'. PERF UTELAND BUTTE FORM 8583'-8887'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
14:45	0.50	15:15	FRAC	Frac. Job	ACID STAG 6. PRES TEST LINES TO 9000 PSI. 4 PMPS ONLINE. ACIDIZE PERFS 8583'-8887'. 44 HOLES IN 11' NET. OPEN WELL W / 1750 PSI AT 14:48. LET BALL FALL FOR 10 MIN. BD 21.8 BPM AT 5350 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W / 155.3 BBLS ISIP 2360 PSI. FG .73. BWTR 510.5 BBLS MR 55.0. AR 36.3. MP 5660. AP 4015. TURN OVER TO SLB W 2300 PSI
15:15	1.50	16:45	PFRT	Perforating	PERF STG 7-PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W / 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W / 52 BBLS. SET CFP AT 8508'. PERF UTELAND BUTTE FORM 8129'-8433'. 44 HOLES IN 11' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
16:45	0.50	17:15	FRAC	Frac. Job	ACID STAG 7. PRES TEST LINES TO 9000 PSI. 5 PMPS ONLINE. ACIDIZE PERFS 8129'-8433'. 44 HOLES IN 11' NET. OPEN WELL W / 1660 PSI AT 16:54. LET BALL FALL FOR 10 MIN. BD 21.4 BPM AT 3730 PSI. PUMP 15,000 GAL GELLED 15% HCL. FLUSH W / 146.8 BBLS ISIP 2340 PSI. FG .73. BWTR 505.6 BBLS MR 66.8. AR 40.8. MP 6020. AP 4117. TURN OVER TO SLB W 2100 PSI
17:15	2.42	19:40	PFRT	Perforating	PERF STG 8-PU GUNS AND HES 4-1/2" 10K CFP. EQUALIZE W / 2200. RIH AND CORRELATE TO LT. PUMP DOWN TO DEPTH W / 52 BBLS. SET CFP AT 8054'. PERF UTELAND BUTTE FORM 7675'-7979'. 56 HOLES IN 14' NET. POOH. VERIFY ALL PERFS SHOT. DROP BALL. TURN OVER TO BASIC.
19:40	0.17	19:50	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
19:50	0.33	20:10	FRAC	Frac. Job	Acidize Stage 8. Open Well, 1,670 Psi. ICP. BrokeDown At 20.1 Bpm And 3,600 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,440 Psi.. 0.74 Psi./Ft. F.G.. WSI And Secured. Total Clean - 21,630 Gals.. 515 Bbls.. BWTR - 515 Bbls. Max. Rate - 63.0 Bpm Avg. Rate - 41.0 Bpm Max. Psi. - 5,820 Psi. Avg. Psi. - 4,580 Psi.
20:10	0.08	20:15	CTUW	W/L Operation	Well Turned Over To WireLine. Pick Up Gun String And CFP Plug Assembly. Equalize To Well Pressure.
20:15	1.17	21:25	PFRT	Perforating	RIH With 3 1/8" PJ Omega 3104 Perf. Gun Configured At 90 Degree Phasing, 3 Spf, .36" Penetration Charges, 16 Gms., .44 Dia. Holes. Correlating To SLB CBL/CCL Dated 03-14-2013. Found And Correlated To Liner Top. Started Pumping At 2 Bpm, Brought Rate Up To 10 Bpm Until At Depth. Set CFP At 7,662'. 2,000 Psi.. Perforate Stage 9 UteLand Butte Zone, 7,507 - 7,642'. 21 Holes. 1,950 Psi.. POOH. LayDown Gun, Verify All Shots Fired, WSI And Secured.
21:25	0.17	21:35	GOP	General Operations	Well Turned Over To Basic. Pressure Test To 8500#. Equalize, Open To Well. Let Ball Fall.
21:35	0.34	21:55	FRAC	Frac. Job	Acidize Stage 9. Open Well, 1,760 Psi. ICP. BrokeDown At 17.7 Bpm And 5,910 Psi.. Pump 15,000 Gals. 15% HCL. Flush With 2% KCL To 15 Bbls. Over Bottom Perf. Volume. Get ISDP, 2,490 Psi.. 0.77 Psi./Ft. F.G.. WSI And Secured. Total Clean - 20,496 Gals.. 488 Bbls.. BWTR - 488 Bbls. Max. Rate - 42.0 Bpm Avg. Rate - 40.0 Bpm Max. Psi. - 7,320 Psi. Avg. Psi. - 6,873 Psi.
21:55	3.08	01:00	SRIG	Rig Up/Down	RigDown WireLine And Frac Crews, MOL.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
01:00	6.00	07:00	FBCK	Flowback Well	Open Well To FlowBack At 100 BPH.

9H-4-45 BTR 4/8/2013 06:00 - 4/9/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	FBCK	Flowback Well	FLOW WELL TO FBT TILL PH AT 5. MAKING TRACE OF OIL. LIGHT GAS BLOW. 12 BWPB.
09:00	21.00	06:00	FBCK	Flowback Well	TURN TO PRODUCTION AND SALES.

9H-4-45 BTR 4/9/2013 06:00 - 4/10/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	SNOW CONDITIONS. CALL FOR BLADE AND PUSH INTO LOCATION.
07:00	3.00	10:00	RMOV	Rig Move	MOVE COIL TBG SERVICES INTO LOCATION. SPOT EQUIP. CRANE FROZE UP WITH ICE ON REELS. THAW OUT TO GET CRANE WORKING.
10:00	2.00	12:00	SRIG	Rig Up/Down	RU BOP, INJECTOR HEAD AND LUBE. INSTALL COIL CONNECTOR AND PULL TEST. FILL AND CHECK COIL.
12:00	1.00	13:00	GOP	General Operations	MU 3.80" MILL, MOTOR, AV SUB, GF DRIVER, GF AGITATOR, HYD DISCONNECT, BI-DI JAR, DUAL FLAPPER. TEST TOOLS. MU IN LUBE. PRES TEST TO 4000 PSI.
13:00	1.25	14:15	RUTB	R un Tubing	OPEN UP WELL AND RIH AS CIRC .5 BPM TO CURVE. CIRC 3 BPM AS TRAVEL TO PLUGS. PMP 3, RETURN 3, 64/64 CHOKE.
14:15	2.50	16:45	DOPG	Drill Out Plugs	D/O PLUGS. PMP 3, RETURN 3, WHP 300. D/O CFP #1 AT 7662' IN 10 MIN. PMP 3, RETURN 3 WHP 350. RIH PMP 3, RETURN 3, WHP 350. D/O CFP #2 AT 8054' IN 32 MIN. PLUG PUSHING UP. CONTROL WITH CHOKE TO 18/64". WHP TO 1150. PLUG START MOVING DOWN HOLE. PMP 3, RETURN 3, WHP 1100. RIH. PMP 3, RETURN 3, WHP 1100. D/O CFP #3 AT 8508' IN 29 MIN. PMP 3, RETURN 3, WHP 1050. RIH PMP 3, RETURN 3, WHP 1000. D/O CFP #4 AT 8962' IN 26 MIN. PMP 3, RETURN 3, WHP 1000. RIH. RIH AND TAG CFP #5.
16:45	1.50	18:15	CTU	Clean Out	PMP 20 BBL SWEEP AND SHORT TRIP TO TOP OF CURVE. RUN BACK IN.
18:15	3.00	21:15	DOPG	Drill Out Plugs	D/O PLUGS. PMP 3, RETURN 3, WHP 800. D/O CFP #5 AT 9425' IN 18 MIN. PMP 3, RETURN 3. WHP 850. RIH. PMP 3, RETURN 3, WHP 850. D/O CFP #6 AT 9870' IN 46 MIN. PMP 3, RETURN 3.5. WHP 850. RIH. PMP 3, RETURN 3.5, WHP 850. D/O CFP #7 AT 10,324' IN 27 MIN. PMP 3, RETURN 3.5. WHP 850. RIH PMP 3, RETURN 3.5, WHP 850. D/O CFP #8 AT 10,778' IN 46 MIN. PMP 3, RETURN 3.5. WHP 850. RIH. TAG RSI AT 11,148'.
21:15	0.75	22:00	CTU	Clean Out	PUMP 20 BBL SWEEP. WHEN OUT OF TBG SLOW PMP TO 1.5 AND BRING ON 750 SCF N2. WHEN OUT OF TBG START POOH SLOW.
22:00	2.50	00:30	PULT	Pull Tubing	CIRC 1.5 BPM AND 750 SCF N2 AS POOH W/COIL TBG. AT 2500' S HUT DOWN N2. LOAD COIL W/FLUID AS FINISH POOH.
00:30	2.50	03:00	SRIG	Rig Up/Down	REMOVE MILL AND TOOLS. HOOK UP TO BOP. BLOW COIL DRY WITH N2. BLEED OFF COIL PRES. RD COIL TBG UNIT. RACK OUT EQUIP.
03:00	3.00	06:00	FBCK	Flowback Well	SITP 1550. OPEN WELL TO PRODUCTION AND SALES. TURN OVER TO FBC.

9H-4-45 BTR 4/25/2013 00:00 - 4/26/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
00:00	1.00	01:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
01:00	1.50	02:30	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT.
02:30	1.50	04:00	BOP1	Install BOP's	N/D FRAC TREE. N/U BOP. CHANGE RAMS TO 4-1/2. R/U FLOOR.
04:00	2.00	06:00	GOP	General Operations	R/U WEATHERFORD CSG CREW. FLUSH 4-1/2 CSG W/60 BBLs.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	PULT	Pull Tubing	POOH W /135 JTS 4-1/2 CSG L/D. 26 JTS LEFT IN HOLE. BEEN HAVING PROBLEMS W/TONGS. SECOND SET OF TONGS BROKE DOWN. R/D CSG TONGS. SDFN. CSG OPEN TO SALES.
12:00	12.00	00:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

9H-4-45 BTR 4/26/2013 06:00 - 4/27/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	1.50	08:30	PULT	Pull Tubing	SIWP-0. R/U WEATHERFORD CSG TONGS. FINISH POOH L/D 26 JTS OF 4-1/2 CSG, R/D WEATHERFORD.
08:30	2.00	10:30	GOP	General Operations	SPOT IN CATWALK & PIPE RACKS. LOAD 2-7/8 TBG ON RACKS & TALLY. CHANGE RAMS TO 2-7/8.
10:30	4.00	14:30	RUTB	Run Tubing	RIH P/U NEW 2-7/8 L-80 TBG TO 6727'. 212 JTS TOTAL.
14:30	1.50	16:00	PULT	Pull Tubing	POOH W /65 STANDS TBG. SWIFN. CSG OPEN TO SALES. PREP RODS. SDFN.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

9H-4-45 BTR 4/29/2013 06:00 - 4/30/2013 00:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	WKLL	Kill Well	SIWP-80. KILL WELL.
08:00	1.50	09:30	PULT	Pull Tubing	POOH W /31 STANDS. UNLOAD PCP EQUIPMENT.
09:30	4.50	14:00	RUTB	Run Tubing	P/U & RIH W /NO TURN TOOL & PCP STATER. SET NO TURN TOOL @ 6775'. R/D FLOOR. N/D BOP. R/U FLOW LINE. FLUSH TBG W /70 BBLs. 211 JTS 2-7/8 TBG. DEVERTER VALVE. 10'-2-7/8 TBG PUP. PCP STATER. TAG BAR ASSEMBLY. 8'-2-7/8 TBG PUP. NO TURN TOOL.
14:00	3.50	17:30	RURP	Run Rods & Pump	P/U ROTOR & POLISH ROD. RIH P/U 230-1" x 7/8 PIN KD RODS. WAIT ON RODS, NEED 1000' MORE FEET. SDFN. CSG OPEN TO SALES.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

9H-4-45 BTR 4/30/2013 06:00 - 5/1/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	4.50	11:30	RURP	Run Rods & Pump	FINISH RIH W /PCP ROTOR P/U 1" RODS. SPACE OUT & R/U PCP MOTOR HEAD. PWOP. 1-1/2 x 26' POLISH ROD. PONY. 4', 6'. 265-1" x 7/8" PIN. SLICK. KD. 1-1/2 x 26' POLISH ROD. PCP ROTOR.
11:30	1.00	12:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION.
12:30	2.50	15:00	RMOV	Rig Move	ROAD RIG TO 5-21-46 DLB. SPOT IN RIG. SDFN.
15:00	15.00	06:00	CTRL	Crew Travel	CREW TRAVEL.

9H-4-45 BTR 5/6/2013 06:00 - 5/7/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.
07:00	1.50	08:30	SRIG	Rig Up/Down	SPOT IN . R/U RIG & EQUIPMENT.
08:30	2.00	10:30	WKLL	Kill Well	BLEED DOWN WELL. FLUSH CSG & TBG W /HOT WATER. R/D PCP MOTOR.
10:30	2.00	12:30	PURP	Pull Rod Pump	POOH W /PCP ROTOR.
12:30	1.00	13:30	GOP	General Operations	FLUSH TBG W /60 BBLS MIX W /CHEM.
13:30	3.00	16:30	RURP	R un Rods & Pump	RIH W /NEW PCP ROTOR. SPACE OUT & R/U PCP MOTOR HEAD. PWOP. 1-1/2 x 26' POLISH ROD. PONY. 4', 6'. 265-1" x 7/8" PIN. SLICK. KD. 1-1/2 x 26' POLISH ROD. PCP ROTOR.
16:30	14.00	06:30	LOCL	Lock Wellhead & Secure	CREW TRAVEL WELL SECURE.

9H-4-45 BTR 5/7/2013 06:00 - 5/8/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	6.00	13:00	GOP	General Operations	WELL NOT PUMPING. R/D PCP MOTOR. PULL 2 RODS. FLUSH TBG. SPACE OUT ROTOR. GAINED 26'. R/U MOTOR.
13:00	1.00	14:00	PUMP	Pump Test	START PUMP. PUMP FOR 1 HR TO HELP CLEAN UP STATER.
14:00	4.00	18:00	GOP	General Operations	R/D MOTOR. RE-SPACE RODS. RAISED +/- 8'. R/U MOTOR. START PUMP, PUMPED FOR 2 HR, WOULD NOT PUMP UP. R/D MOTOR. SHOWING GOING INTO STATER +/- 15'. SDFN. CSG OPEN TO SALES.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE.

9H-4-45 BTR 5/8/2013 06:00 - 5/9/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	0.50	07:30	PURP	Pull Rod Pump	JSA. FINISH FLUSHING RODS. POOH W /60 RODS.
07:30	0.50	08:00	GOP	General Operations	FLUSH RODS.
08:00	1.00	09:00	PURP	Pull Rod Pump	POOH W /265 RODS. LD POLISH ROD. LD ROTOR.
09:00	1.50	10:30	BOPI	Install BOP's	ND WH. NU BOP. RU FLOOR. UNLAND HANGER.
10:30	1.50	12:00	PULT	Pull Tubing	POOH W /211 JTS 2-7/8" TBG.
12:00	1.00	13:00	GOP	General Operations	INSPECT STATOR. STATER IS SWOLLEN. CAN'T FIT CAMERA INTO STATOR.
13:00	0.50	13:30	RUTB	R un Tubing	RIH W /TBG. WELL IS FLOWING. RIH W /1 STD. SHUT IN PUMP 2 BBLS DOWN TBG. RIH W /5 MORE STDS. CSG BLEW IN. FILLED CELLAR. INSTALL RUBBER. NOT ENOUGH WEIGHT TO RIH. TURN CSG TO SALES. CALL FOR WTR TRUCK.
13:30	1.50	15:00	DTIM	Downtime	WAIT ON WTR TRUCK.
15:00	0.50	15:30	GOP	General Operations	PUMP 10 BBLS DOWN TBG.
15:30	0.50	16:00	PULT	Pull Tubing	RIH W /35 STDS TBG FOR KILL STRING.
16:00	0.50	16:30	GOP	General Operations	SECURE WELL TO FLOW TO SALES OVERNIGHT.
16:30	13.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED TO SALES.

9H-4-45 BTR 5/9/2013 06:00 - 5/10/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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. JSA
07:00	0.50	07:30	WKLL	Kill Well	START AND FUEL EQUIP. FINISH PUMPING KILL. PREP BHA
07:30	0.50	08:00	PULT	Pull Tubing	POOH W /35 STD TBG.



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
08:00	2.00	10:00	RUTB	Run Tubing	MU PROD BHA AND RIH W/2-7/8" TBG. TBG DETAIL HANGER 203-J TS 2-7/8" L-80 TBG 7" 8 RD TAC 2-J TS 2-7/8" L-80 TBG PSN 4' TBG SUB 3-1/2" OD DESANDER 5 J TS 2-7/8" L-80 TBG 2-7/8" EUE X 3" LPT 3" LPT X 4" LPT 4" LPT BULL PLUG
10:00	1.50	11:30	GOP	General Operations	SET TAC. RD FLOOR. ND BOP. HAVE HANGER AND SUB IN WHEN WELL STARTED TO FLOW.
11:30	2.00	13:30	WKLL	Kill Well	CIRC 240 BBLs HOT WTR TO CONTROL WELL
13:30	0.50	14:00	GOP	General Operations	REMOVE SUB. LAND HANGER W/20K TEN. NU WH. X-O FOR RODS.
14:00	1.50	15:30	RURP	Run Rods & Pump	RIH W/264) 1" TORQUE X RODS.
15:30	4.50	20:00	PURP	Pull Rod Pump	POOH AS LD 264) 1" TORQUE X RODS FLUSHING AS NEEDED TO KEEP CLEAN.
20:00	10.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

9H-4-45 BTR 5/10/2013 06:00 - 5/11/2013 06:00

API/UWI 43013510920000	State/Province UT	County Duchesne	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 11,290.0	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	1.50	08:30	WKLL	Kill Well	JSA. START AND FUEL EQUIP. FLUSH TBG. SPOT AND PREP RODS.
08:30	4.00	12:30	RURP	Run Rods & Pump	PU AND PRIME 25-175-RHBC-24' PUMP. RIH W/PMP AND RODS. ROD DETAIL 1-1/2" X 30' POLISH ROD 2', 6', 8' X 7/8" PONY RODS 90) 7/8" MMS W/4G 124) 3/4" MMS W/4G 44) 1" MMS W/4G SHEAR CPLG 25-175-RHBC-24' ROD PUMP SPACE OUT AND SEAT PUMP.
12:30	0.50	13:00	PTST	Pressure Test	FILL W/2 BBLs. PRES TEST TO 800 PSI. STROKE TEST. GOOD. CLAMP RODS OFF.
13:00	1.00	14:00	SRIG	Rig Up/Down	RDSU.
14:00	0.50	14:30	GOP	General Operations	MOVE RIG OUT OF WAY. CLEAN LOCATION.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: 1420H626281
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE 7.UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: 9H-4-45 BTR
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013510920000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2180 FSL 0463 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 04 Township: 04.0S Range: 05.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT COUNTY: DUCHESNE STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/19/2017 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input checked="" 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.

Well was shut in on 5/19/15 due to low production & low commodity prices. On 5/18/16 the well will be shut in for 1 year. Current economics do not justify returning well to production. For this reason BBC is requesting an additional 1 year shut in, before a MIT is required, until 5/18/17. Well currently has 0 psi tubing, 1200 psi on 7" casing, 10 psi Braden Head. With minimal to zero Braden Head pressure & 1200 psi casing pressure, it is evident that the 7" intermediate casing has full integrity & all formations are protected. Fluid level was found at 6,100 ft. from surface with TOC at 2,770 ft. Well is shut in at the wellhead & all surface equipment has been drained/winterized. Well is still on an active lease operator route & is checked frequently for any surface & potential down hole issues. Well would be RTP if economics are justified at higher commodity price before 5/19/17.

Accepted by the Utah Division of Oil, Gas and Mining

Date: May 04, 2016

By: *Dark Duff*

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 4/7/2016	

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

Effective Date: 11/1/2016

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

WELL INFORMATION:

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

OPERATOR CHANGES DOCUMENTATION:

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

REVIEW:

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

NEW OPERATOR BOND VERIFICATION:

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

DATA ENTRY:

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

COMMENTS:

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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

From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

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



October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

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

New Operator Contact information:

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

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

Sincerely,

Bill Barrett Corporation

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

Brady Riley
Permit Analyst

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

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

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

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

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

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

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

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

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

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

(This space for State use only)

APPROVED

NOV 07 2016

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

Request to Transfer Application or Permit to Drill

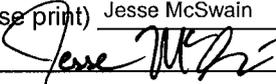
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

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

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

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

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

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

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

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

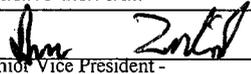
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

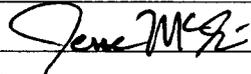
Well Name and Number 6-32-36 BTR SWD	API Number 4301350921
Location of Well Footage : 1628 FNL 1553 FWL County : DUCHENSE QQ, Section, Township, Range: SENW 32 3S 6W State : UTAH	Field or Unit Name CEDAR RIM Lease Designation and Number 2OG0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

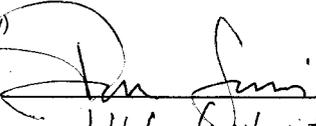
CURRENT OPERATOR

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

NEW OPERATOR

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

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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

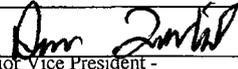
UIC FORM 5

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:	

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Transfer approved by: 
Title: VIC

Approval Date: 11/3/16

Comments:

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

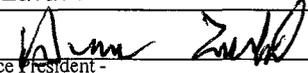
UIC FORM 5

TRANSFER OF AUTHORITY TO INJECT

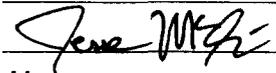
Well Name and Number SWD 9-36 BTR	API Number 4301350646
Location of Well Footage : 0539 FSL 0704 FEL County : DUCHESNE	Field or Unit Name CEDAR RIM
	Lease Designation and Number 2OG0005608
QQ, Section, Township, Range: SESE 9 3S 6W	State : UTAH

EFFECTIVE DATE OF TRANSFER: 11/1/2016

CURRENT OPERATOR

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

NEW OPERATOR

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

(This space for State use only)

Transfer approved by: _____ Approval Date: _____

Title: _____

Comments:

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