

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

FORM 3

AMENDED REPORT 

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER LC Tribal 1H-33-47					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE OF WELL Oil Well 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) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" 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')			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		658 FNL 1220 FEL		NENE	32	4.0 S		7.0 W	U		
Top of Uppermost Producing Zone		660 FNL 660 FWL		NWNW	33	4.0 S		7.0 W	U		
At Total Depth		810 FNL 810 FEL		NENE	33	4.0 S		7.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 810			23. NUMBER OF ACRES IN DRILLING UNIT 640					
27. ELEVATION - GROUND LEVEL 6736			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 15165			26. PROPOSED DEPTH MD: 9842 TVD: 4942					
28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-180								
<b>Hole, Casing, and Cement Information</b>											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	No Used		0	0.0	0.0
Surf	12.25	9.625	0 - 800	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown		70	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
I1	8.75	7	0 - 6090	26.0	P-110 LT&C	9.2	Unknown		230	3.14	14.8
							Unknown		200	1.42	13.5
L1	6.125	4.5	0 - 9842	11.6	P-110 LT&C	9.5	No Used		0	0.0	0.0
<b>ATTACHMENTS</b>											
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input 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 08/02/2012			EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013516210000			APPROVAL			 Permit Manager					

RECEIVED: November 01, 2012

**DRILLING PLAN**

BILL BARRETT CORPORATION

LC Tribal 1H-33-47

SHL: NE NE, 658' FNL and 1220' FEL, Section 32, T4S-R7W

BHL: NE NE, 810' FNL and 810' FEL, Section 33, T4S-R7W

Duchesne Co., UT

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

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

**HORIZONTAL LEG FORMATION TOPS**

<b>Formation</b>	<b>Depth – MD</b>	<b>Depth - TVD</b>
Green River	682'	682'
Surface casing	800'	800'
Mahogany	1,347'	1,347'
TGR3	2,632'	2,632'
Douglas Creek	3,437'	3,437'
3 PT Marker	3,864'	3,857'
Black Shale Facies	4,310'	4,238'
Castle Peak	4,687'	4,489'
*Uteland Butte	5,524'	4,852'
CR1	5,812'	4,908'
TD	9,842'	4,942'

\*PROSPECTIVE PAY

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

Base of Useable Water = 6,747'

**4. Casing Program**

<b>Hole Size</b>	<b>SETTING DEPTH (FROM) (TO)</b>		<b>Casing Size</b>	<b>Casing Weight</b>	<b>Casing Grade</b>	<b>Thread</b>	<b>Condition</b>
12-1/4"	surface	800'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	6,090'	7"	26.0 ppf	P-110	LT&C	New
6 1/8"	surface	9,842'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan  
LC Tribal 1H-33-47  
Duchesne Co., UT

### 5. Cementing Program

9 5/8" Surface Casing	Lead with approximately 70 sx Halliburton Light Premium cement with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx). TOC @ Surface Tail with 210 sx Premium 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx) calculated hole volume with 75% excess. TOC @ 300' Top out cement, if required: 100 sx of Premium cement with additives mixed at 15.8 ppg (yield = 1.17 ft <sup>3</sup> /sk)
7" Intermediate Casing	Lead with approximately 230 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft <sup>3</sup> /sx). TOC @ 300' Tail with approximately 200 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). TOC @ 3,3373'
6-1/8" hole for 4-1/2" production liner	Depending on hole conditions, plan to run un-cemented 4-1/2" liner with open hole packers or cement w/ 400 sx ECONOCEM w/ additives, 13.5 ppg, 1.4 ft <sup>3</sup> /sx, 50% excess. Planned TOC @ 4-1/2" liner top
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' – 800'	8.4 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
800' – 6,090'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
6,090' – 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 – 800'	No pressure control required
800' – 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  
 LC Tribal 1H-33-47  
 Duchesne Co., UT

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**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 2441 psi\* and maximum anticipated surface pressure equals approximately 1354 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 2013  
 Spud: June 2013  
 Duration: 25 days drilling time  
 25 days completion time

T4S, R7W, U.S.B.&M.

BILL BARRETT CORPORATION

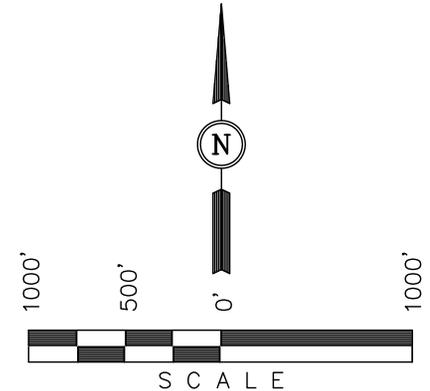
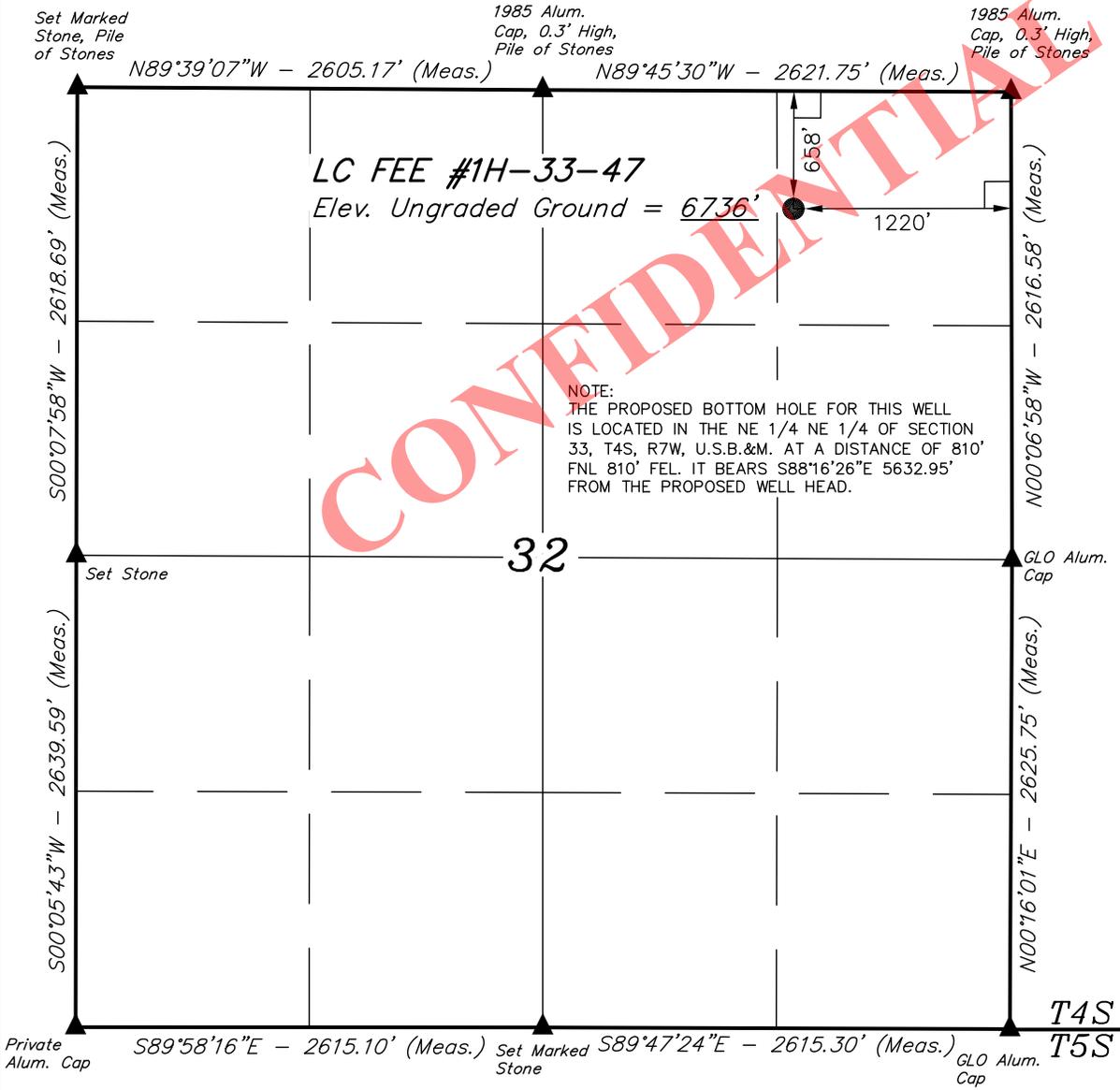
Well location, LC FEE #1H-33-47 (SURFACE LOCATION), located as shown in the NE 1/4 NE 1/4 of Section 32, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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



CERTIFICATE

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

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

LEGEND:

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

NAD 83 (SURFACE LOCATION)	
LATITUDE	= 40°05'42.18" (40.095050)
LONGITUDE	= 110°41'37.32" (110.693700)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 40°05'42.33" (40.095092)
LONGITUDE	= 110°41'34.76" (110.692989)

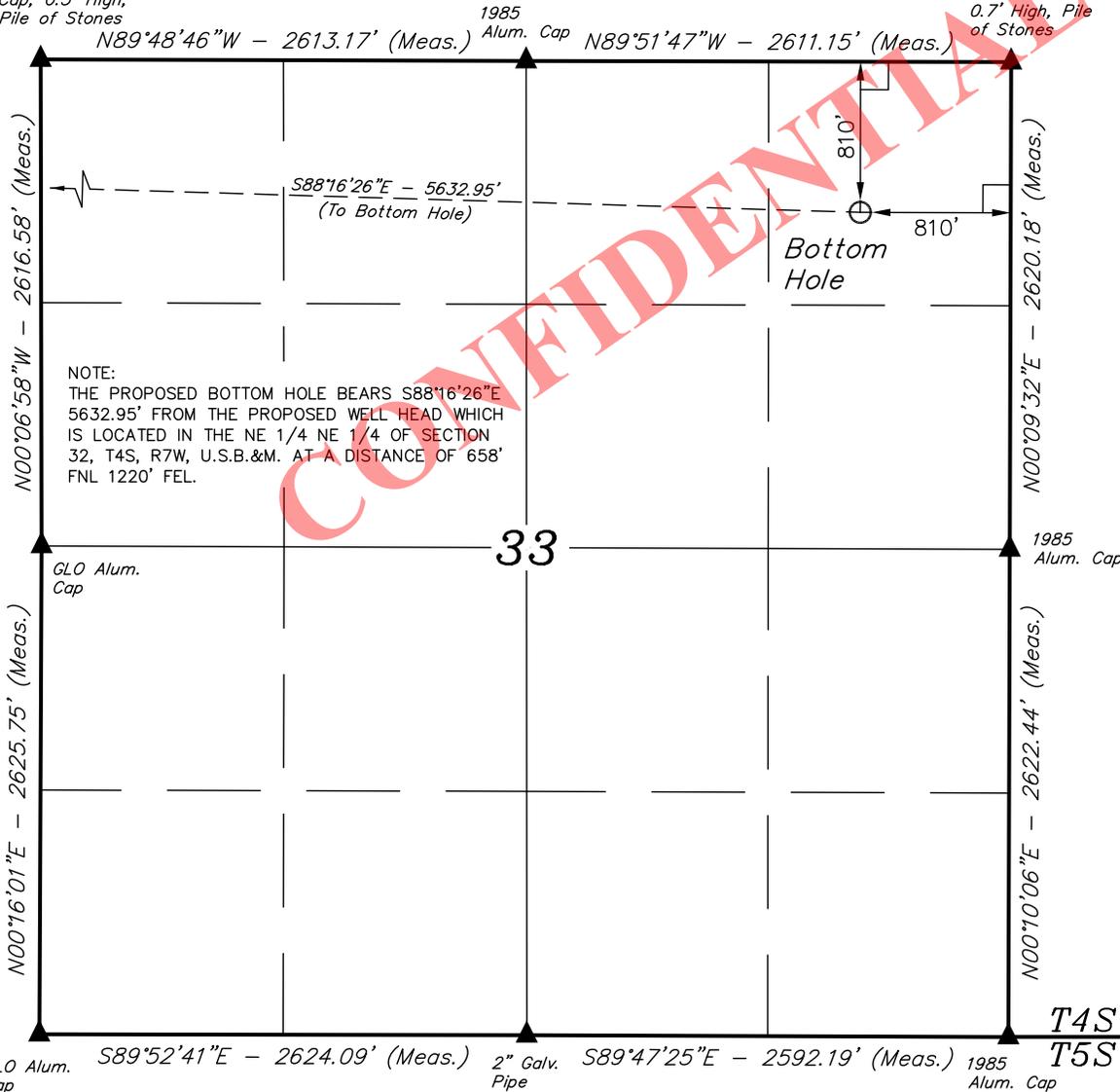
<p><b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>                  85 SOUTH 200 EAST - VERNAL, UTAH 84078                  (435) 789-1017</p>		
SCALE 1" = 1000'	DATE SURVEYED: 10-26-11	DATE DRAWN: 12-20-11
PARTY G.M. T.B. Z.L.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	

# T4S, R7W, U.S.B.&M.

## BILL BARRETT CORPORATION

1985 Alum.  
Cap, 0.3' High,  
Pile of Stones

1985 Alum. Cap,  
0.7' High, Pile  
of Stones



Well location, LC FEE #1H-33-47 (TARGET BOTTOM HOLE), located as shown in the NE 1/4 NE 1/4 of Section 33, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

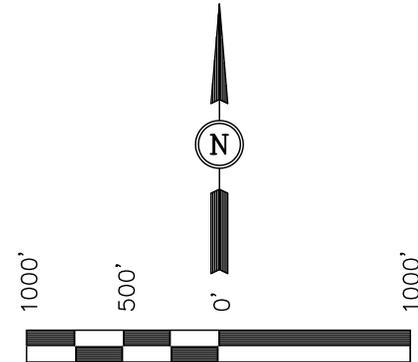
### BASIS OF ELEVATION

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

### BASIS OF BEARINGS

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

NOTE:  
THE PROPOSED BOTTOM HOLE BEARS S88°16'26\"/>



### CERTIFICATE

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*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH  
 01-07-12

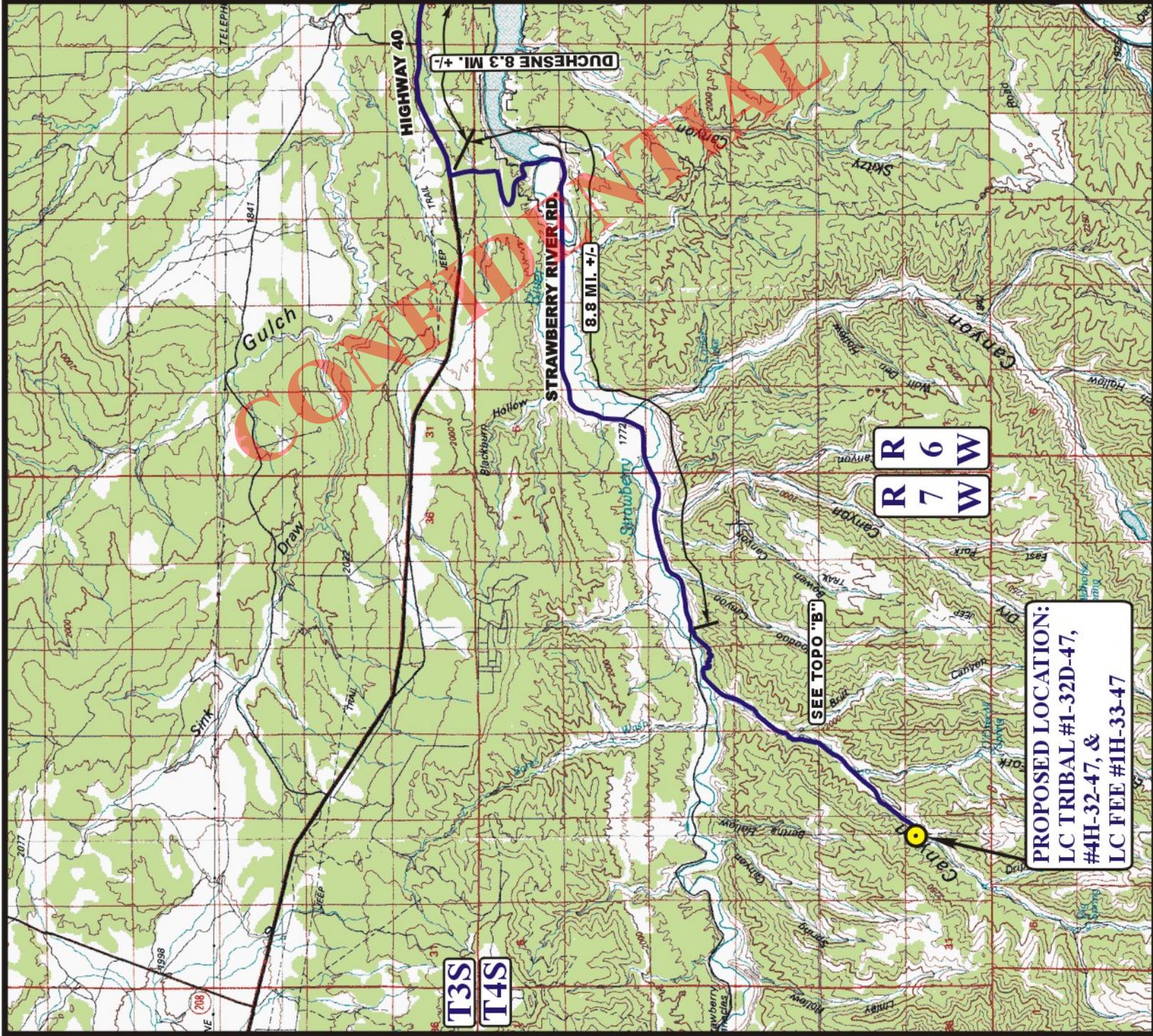
### LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)
LATITUDE = 40°05'40.71" (40.094642)
LONGITUDE = 110°40'24.89" (110.673581)
NAD 27 (TARGET BOTTOM HOLE)
LATITUDE = 40°05'40.86" (40.094683)
LONGITUDE = 110°40'22.33" (110.672869)

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>		
85 SOUTH 200 EAST - VERNAL, UTAH 84078		
(435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 10-26-11	DATE DRAWN: 12-20-11
PARTY G.M. T.B. Z.L.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE BILL BARRETT CORPORATION	

RECEIVED: August 02, 2012



**LEGEND:**

● PROPOSED LOCATION



**BILL BARRETT CORPORATION**

LC TRIBAL #1-32D-47, #4H-32-47, & LC FEE #IH-33-47  
SECTION 32, T4S, R7W, U.S.B.&M.  
NE 1/4 NE 1/4

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

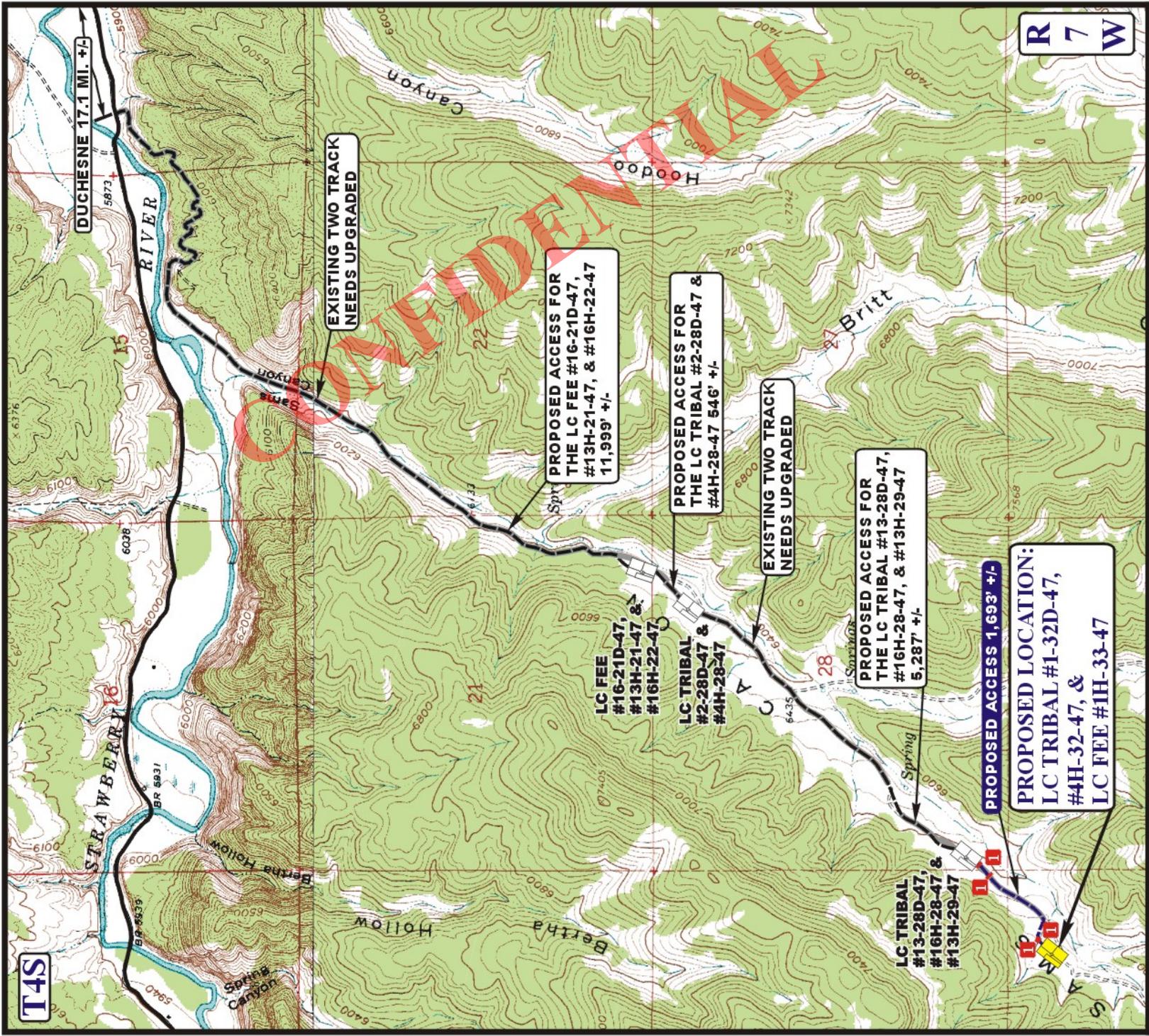


**ACCESS ROAD  
MAP**

**12 22 11**  
MONTH DAY YEAR

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





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING ROAD NEEDS UPGRADED
- 24" CMP REQUIRED

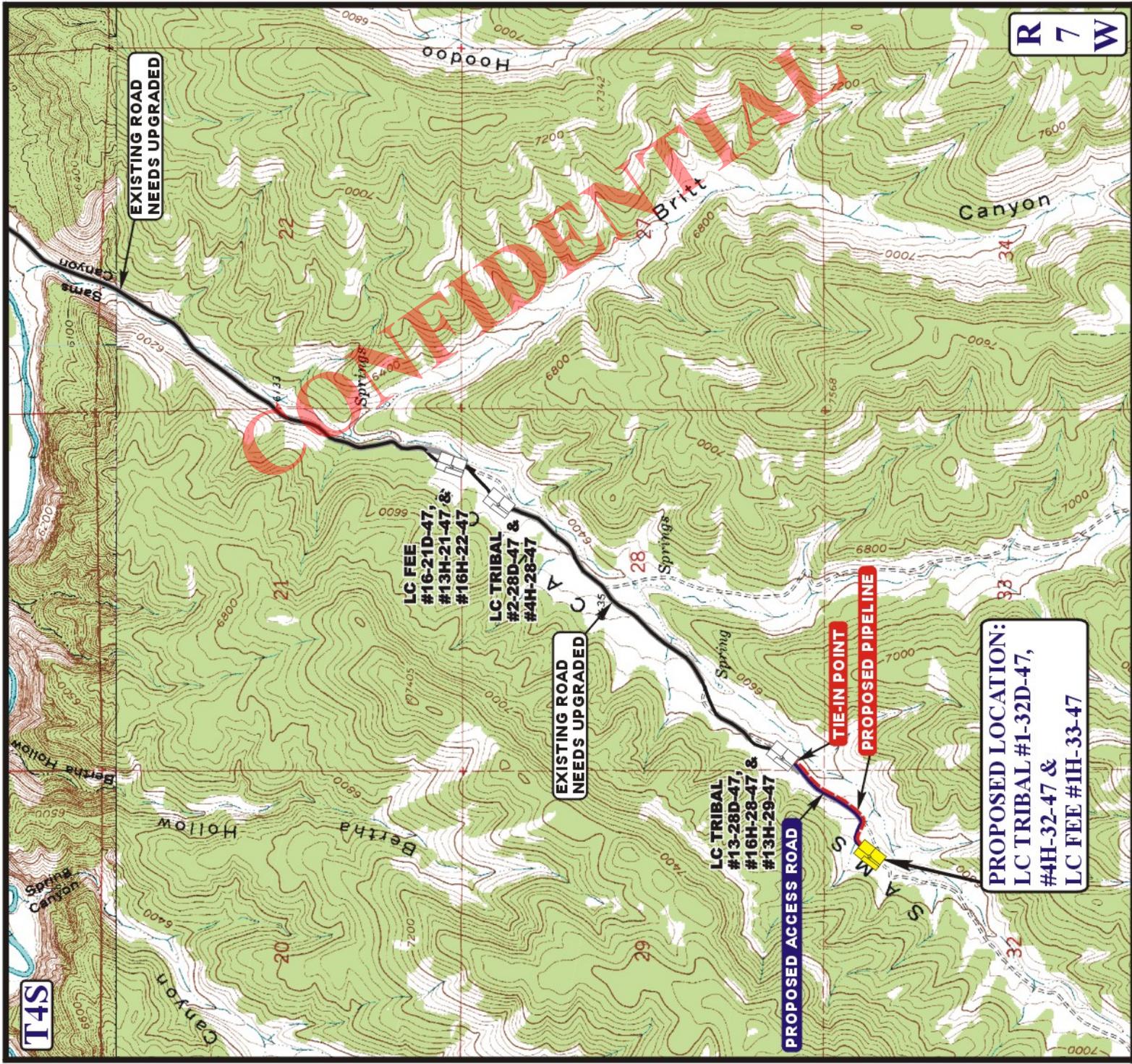
**U&S**  
 Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**BILL BARRETT CORPORATION**

LC TRIBAL #1-32D-47, #4H-32-47, & LC FEE #1H-33-47  
 SECTION 32, T4S, R7W, U.S.B.&M.  
 NE 1/4 NE 1/4

ACCESS ROAD MAP	12	22	11
	MONTH	DAY	YEAR
SCALE: 1" = 2000' DRAWN BY: J.L.H. REVISED: 00-00-00			

**B**  
TOPO



**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,694' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING ROAD NEEDS UPGRADED
- PROPOSED PIPELINE



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



**BILL BARRETT CORPORATION**

LC TRIBAL #1-32D-47, #4H-32-47, & LC FEE #1H-33-47  
 SECTION 32, T4S, R7W, U.S.B.&M.  
 NE 1/4 NE 1/4

<b>TOPOGRAPHIC MAP</b>	12	22	11
	<small>MONTH</small>	<small>DAY</small>	<small>YEAR</small>
SCALE: 1" = 2000' DRAWN BY: J.L.H. REVISED: 00-00-00			



TOPO



SITE DETAILS: 1H-33-47 LC Fee  
Lake Canyon

Site Latitude: 40° 5' 42.331 N  
Site Longitude: 110° 41' 34.760 W

**COMPANY DETAILS: BILL BARRETT CORP**

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

Positional Uncertainty: 0.0  
Convergence: 0.52  
Local North: True

**WELL DETAILS: 1H-33-47 LC Fee**

Ground Level: 6732.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	642700.85	2225763.05	40° 5' 42.331 N	110° 41' 34.760 W	

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
1H-33-47 LP	4927.0	-2.0	1880.0	40° 5' 42.311 N	110° 41' 10.568 W	Point
1H-33-47 PBHL	4942.0	-148.3	5628.7	40° 5' 40.859 N	110° 40' 22.328 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

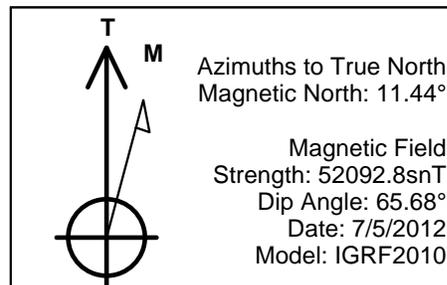
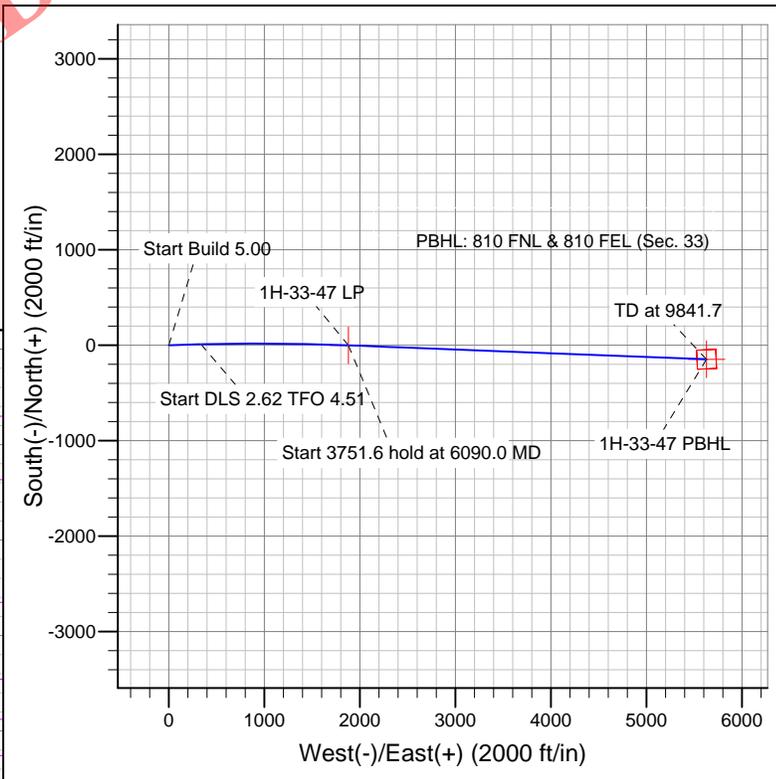
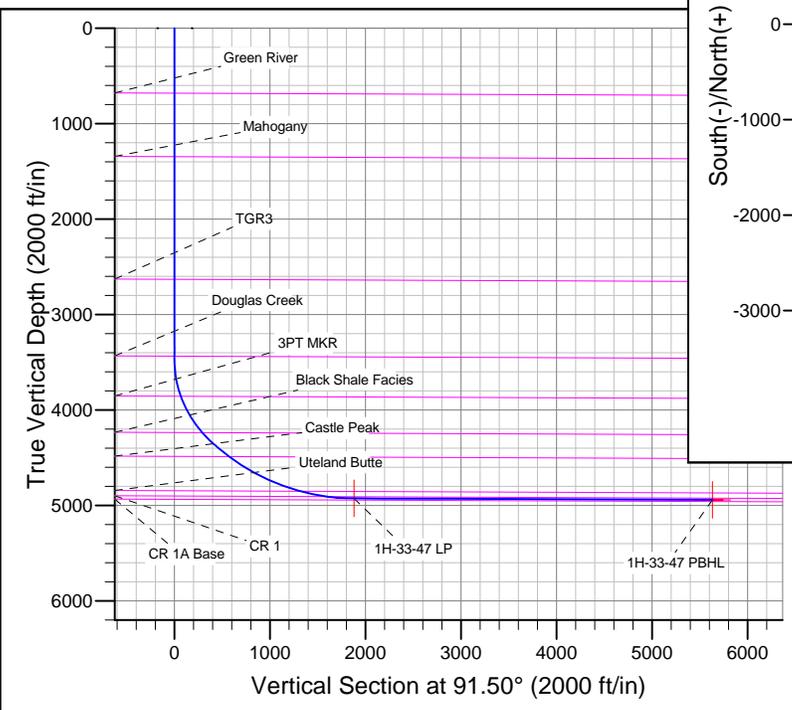
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3473.2	0.00	0.00	3473.2	0.0	0.0	0.00	0.00	0.0	
3	4373.2	45.00	88.40	4283.5	9.3	335.5	5.00	88.40	335.1	
4	6090.0	89.77	92.23	4927.0	-2.0	1880.0	2.62	4.51	1879.4	1H-33-47 LP
5	9841.7	89.77	92.23	4942.0	-147.8	5628.7	0.00	0.00	5630.7	1H-33-47 PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
682.0	682.0	CR 1A Base
1347.0	1347.0	Green River
2632.0	2632.0	Mahogany
3437.0	3437.0	TGR3
3857.3	3864.8	Douglas Creek
4238.2	4310.8	3PT MKR
4489.3	4687.8	Black Shale Facies
4852.3	5524.2	Castle Peak
4908.4	5812.8	Uteland Butte
		CR 1

**CASING DETAILS**

No casing data is available



# **BILL BARRETT CORP**

**DUCHESNE COUNTY, UT (NAD 27)**

**1H-33-47 LC Fee**

**1H-33-47 LC Fee**

**1H-33-47 LC Fee**

**Plan: Design #2**

## **Standard Planning Report**

**24 July, 2012**

**CONFIDENTIAL**

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-33-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Site:</b>	1H-33-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	1H-33-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-33-47 LC Fee		
<b>Design:</b>	Design #2		

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

<b>Site</b>	1H-33-47 LC Fee				
<b>Site Position:</b>		<b>Northing:</b>	642,700.85 ft	<b>Latitude:</b>	40° 5' 42.331 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,225,763.05 ft	<b>Longitude:</b>	110° 41' 34.760 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.52 °

<b>Well</b>	1H-33-47 LC Fee					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	642,700.85 ft	<b>Latitude:</b>	40° 5' 42.331 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,225,763.05 ft	<b>Longitude:</b>	110° 41' 34.760 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,732.0 ft

<b>Wellbore</b>	1H-33-47 LC Fee				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/5/2012	11.44	65.69	52,093

<b>Design</b>	Design #2			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	91.50

<b>Plan Sections</b>										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,473.2	0.00	0.00	3,473.2	0.0	0.0	0.00	0.00	0.00	0.00	
4,373.2	45.00	88.40	4,283.5	9.3	335.5	5.00	5.00	0.00	88.40	
6,090.0	89.77	92.23	4,927.0	-2.0	1,880.0	2.62	2.61	0.22	4.51	1H-33-47 LP
9,841.7	89.77	92.23	4,942.0	-147.8	5,628.7	0.00	0.00	0.00	0.00	1H-33-47 PBHL

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-33-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Site:</b>	1H-33-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	1H-33-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-33-47 LC Fee		
<b>Design:</b>	Design #2		

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
682.0	0.00	0.00	682.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Green River</b>									
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
1,347.0	0.00	0.00	1,347.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Mahogany</b>									
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
2,632.0	0.00	0.00	2,632.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>TGR3</b>									
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,437.0	0.00	0.00	3,437.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Douglas Creek</b>									
3,473.2	0.00	0.00	3,473.2	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	1.34	88.40	3,500.0	0.0	0.3	0.3	5.00	5.00	0.00
3,600.0	6.34	88.40	3,599.7	0.2	7.0	7.0	5.00	5.00	0.00
3,700.0	11.34	88.40	3,698.5	0.6	22.4	22.3	5.00	5.00	0.00
3,800.0	16.34	88.40	3,795.6	1.3	46.3	46.2	5.00	5.00	0.00
3,864.8	19.58	88.40	3,857.3	1.8	66.2	66.2	5.00	5.00	0.00
<b>3PT MKR</b>									
3,900.0	21.34	88.40	3,890.2	2.2	78.5	78.4	5.00	5.00	0.00
4,000.0	26.34	88.40	3,981.6	3.3	118.9	118.8	5.00	5.00	0.00
4,100.0	31.34	88.40	4,069.2	4.7	167.1	166.9	5.00	5.00	0.00
4,200.0	36.34	88.40	4,152.2	6.2	222.8	222.5	5.00	5.00	0.00

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-33-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Site:</b>	1H-33-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	1H-33-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-33-47 LC Fee		
<b>Design:</b>	Design #2		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.0	41.34	88.40	4,230.1	7.9	285.4	285.1	5.00	5.00	0.00
4,310.8	41.88	88.40	4,238.2	8.1	292.6	292.3	5.00	5.00	0.00
<b>Black Shale Facies</b>									
4,373.2	45.00	88.40	4,283.5	9.3	335.5	335.1	5.00	5.00	0.00
4,400.0	45.70	88.46	4,302.3	9.9	354.6	354.2	2.61	2.61	0.22
4,500.0	48.31	88.69	4,370.5	11.7	427.7	427.2	2.61	2.61	0.22
4,600.0	50.91	88.91	4,435.3	13.3	503.8	503.3	2.61	2.61	0.22
4,687.8	53.20	89.10	4,489.3	14.5	573.0	572.5	2.61	2.61	0.22
<b>Castle Peak</b>									
4,700.0	53.52	89.13	4,496.6	14.6	582.8	582.2	2.61	2.61	0.24
4,800.0	56.13	89.36	4,554.2	15.7	664.5	663.9	2.61	2.61	0.22
4,900.0	58.74	89.58	4,608.0	16.5	748.8	748.1	2.61	2.61	0.22
5,000.0	61.35	89.80	4,657.9	17.0	835.4	834.7	2.61	2.61	0.22
5,100.0	63.95	90.02	4,703.9	17.1	924.3	923.5	2.62	2.61	0.22
5,200.0	66.56	90.25	4,745.7	16.9	1,015.1	1,014.3	2.62	2.61	0.22
5,300.0	69.17	90.47	4,783.4	16.3	1,107.7	1,106.9	2.62	2.61	0.22
5,400.0	71.78	90.69	4,816.8	15.3	1,201.9	1,201.1	2.62	2.61	0.22
5,500.0	74.38	90.91	4,845.9	14.0	1,297.6	1,296.8	2.62	2.61	0.22
5,524.2	75.01	90.97	4,852.3	13.6	1,320.9	1,320.1	2.62	2.61	0.22
<b>Uteland Butte</b>									
5,600.0	76.99	91.14	4,870.6	12.3	1,394.4	1,393.6	2.62	2.61	0.22
5,700.0	79.60	91.36	4,890.9	10.1	1,492.3	1,491.6	2.62	2.61	0.22
5,800.0	82.21	91.58	4,906.7	7.6	1,591.0	1,590.3	2.62	2.61	0.22
5,812.8	82.54	91.61	4,908.4	7.3	1,603.8	1,603.0	2.62	2.61	0.22
<b>CR 1</b>									
5,900.0	84.82	91.80	4,918.0	4.7	1,690.3	1,689.6	2.62	2.61	0.22
6,000.0	87.42	92.03	4,924.8	1.3	1,790.1	1,789.4	2.62	2.61	0.22
6,090.0	89.77	92.23	4,927.0	-2.0	1,880.0	1,879.4	2.62	2.61	0.22
<b>1H-33-47 LP</b>									
6,100.0	89.77	92.23	4,927.0	-2.4	1,889.9	1,889.4	0.00	0.00	0.00
6,200.0	89.77	92.23	4,927.4	-6.3	1,989.9	1,989.3	0.00	0.00	0.00
6,300.0	89.77	92.23	4,927.8	-10.2	2,089.8	2,089.3	0.00	0.00	0.00
6,400.0	89.77	92.23	4,928.2	-14.0	2,189.7	2,189.3	0.00	0.00	0.00
6,500.0	89.77	92.23	4,928.6	-17.9	2,289.6	2,289.3	0.00	0.00	0.00
6,600.0	89.77	92.23	4,929.0	-21.8	2,389.6	2,389.3	0.00	0.00	0.00
6,700.0	89.77	92.23	4,929.4	-25.7	2,489.5	2,489.3	0.00	0.00	0.00
6,800.0	89.77	92.23	4,929.8	-29.6	2,589.4	2,589.3	0.00	0.00	0.00
6,900.0	89.77	92.23	4,930.2	-33.5	2,689.3	2,689.3	0.00	0.00	0.00
7,000.0	89.77	92.23	4,930.6	-37.4	2,789.3	2,789.3	0.00	0.00	0.00
7,100.0	89.77	92.23	4,931.0	-41.3	2,889.2	2,889.3	0.00	0.00	0.00
7,200.0	89.77	92.23	4,931.4	-45.1	2,989.1	2,989.3	0.00	0.00	0.00
7,300.0	89.77	92.23	4,931.8	-49.0	3,089.0	3,089.3	0.00	0.00	0.00
7,400.0	89.77	92.23	4,932.2	-52.9	3,189.0	3,189.2	0.00	0.00	0.00
7,500.0	89.77	92.23	4,932.6	-56.8	3,288.9	3,289.2	0.00	0.00	0.00
7,600.0	89.77	92.23	4,933.0	-60.7	3,388.8	3,389.2	0.00	0.00	0.00
7,700.0	89.77	92.23	4,933.4	-64.6	3,488.7	3,489.2	0.00	0.00	0.00
7,800.0	89.77	92.23	4,933.8	-68.5	3,588.6	3,589.2	0.00	0.00	0.00
7,900.0	89.77	92.23	4,934.2	-72.3	3,688.6	3,689.2	0.00	0.00	0.00
8,000.0	89.77	92.23	4,934.6	-76.2	3,788.5	3,789.2	0.00	0.00	0.00
8,100.0	89.77	92.23	4,935.0	-80.1	3,888.4	3,889.2	0.00	0.00	0.00
8,200.0	89.77	92.23	4,935.4	-84.0	3,988.3	3,989.2	0.00	0.00	0.00
8,300.0	89.77	92.23	4,935.8	-87.9	4,088.3	4,089.2	0.00	0.00	0.00
8,400.0	89.77	92.23	4,936.2	-91.8	4,188.2	4,189.2	0.00	0.00	0.00

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 1H-33-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6747.0ft (Original Well Elev)
<b>Site:</b>	1H-33-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	1H-33-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	1H-33-47 LC Fee		
<b>Design:</b>	Design #2		

## 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)
8,500.0	89.77	92.23	4,936.6	-95.7	4,288.1	4,289.1	0.00	0.00	0.00
8,600.0	89.77	92.23	4,937.0	-99.5	4,388.0	4,389.1	0.00	0.00	0.00
8,700.0	89.77	92.23	4,937.4	-103.4	4,488.0	4,489.1	0.00	0.00	0.00
8,800.0	89.77	92.23	4,937.8	-107.3	4,587.9	4,589.1	0.00	0.00	0.00
8,900.0	89.77	92.23	4,938.2	-111.2	4,687.8	4,689.1	0.00	0.00	0.00
9,000.0	89.77	92.23	4,938.6	-115.1	4,787.7	4,789.1	0.00	0.00	0.00
9,100.0	89.77	92.23	4,939.0	-119.0	4,887.7	4,889.1	0.00	0.00	0.00
9,200.0	89.77	92.23	4,939.4	-122.9	4,987.6	4,989.1	0.00	0.00	0.00
9,300.0	89.77	92.23	4,939.8	-126.8	5,087.5	5,089.1	0.00	0.00	0.00
9,400.0	89.77	92.23	4,940.2	-130.6	5,187.4	5,189.1	0.00	0.00	0.00
9,500.0	89.77	92.23	4,940.6	-134.5	5,287.4	5,289.1	0.00	0.00	0.00
9,600.0	89.77	92.23	4,941.0	-138.4	5,387.3	5,389.1	0.00	0.00	0.00
9,700.0	89.77	92.23	4,941.4	-142.3	5,487.2	5,489.0	0.00	0.00	0.00
9,800.0	89.77	92.23	4,941.8	-146.2	5,587.1	5,589.0	0.00	0.00	0.00
9,841.7	89.77	92.23	4,942.0	-147.8	5,628.7	5,630.7	0.00	0.00	0.00

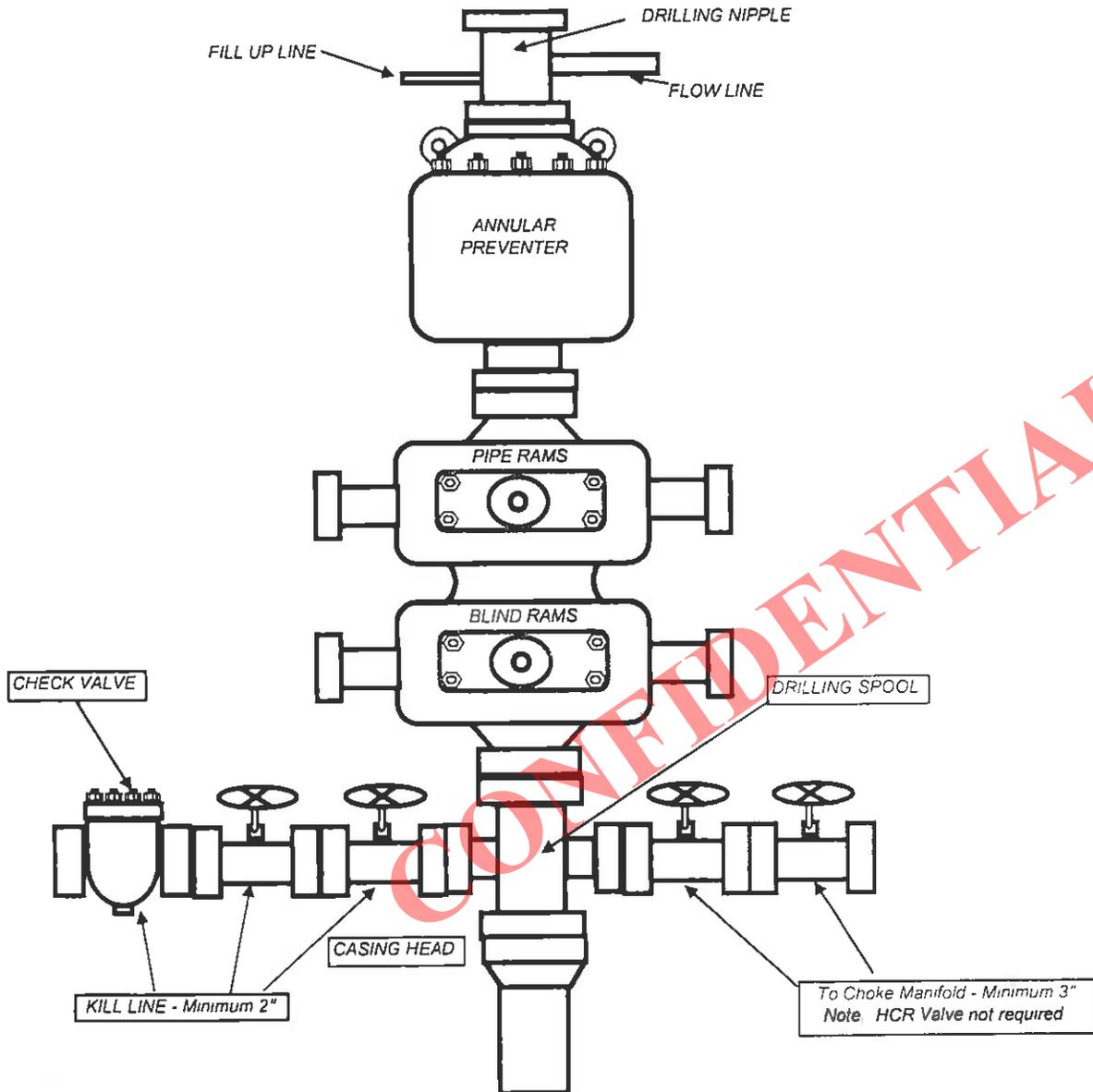
1H-33-47 PBHL

## Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
682.0	682.0	Green River		0.23	92.23
1,347.0	1,347.0	Mahogany		0.23	92.23
2,632.0	2,632.0	TGR3		0.23	92.23
3,437.0	3,437.0	Douglas Creek		0.23	92.23
3,864.8	3,857.0	3PT MKR		0.23	92.23
4,310.8	4,237.0	Black Shale Facies		0.23	92.23
4,687.8	4,487.0	Castle Peak		0.23	92.23
5,524.2	4,847.0	Uteland Butte		0.23	92.23
5,812.8	4,902.0	CR 1		0.23	92.23
	4,937.0	CR 1A Base		0.23	92.23

# BILL BARRETT CORPORATION

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







August 2, 2012

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

**RE: Horizontal Drilling  
LC Fee # 1H-33-47  
Section 33, T4S-R7W, U.S.B.&M.  
Duchesne County, Utah**

**Surface Hole Location: 658' FNL & 1220' FEL, NENE, 32-T4S-R7W, USB&M  
Bottom Hole Location: 810' FNL & 810' FEL, NENE, 33-T4S-R7W, 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 Order # 139-87 pertaining to a 640 acre spacing unit for a horizontal or vertical well.

- Section 33 is composed entirely of Fee minerals.
- Tribal Exploration and Development Agreement #14-20-H62-5500, which includes portions of the subject Section 33 and other lands, allows for the drilling of the #1H-33-47 well.
- Once the well has been drilled, BBC will earn the tribal lease covering the appropriate committed acres being further described in the Exploration and Development Agreement.
- The LC Fee #1H-33-47 will be perforated no less than 660 feet from the Section 33 Tribal Lease boundary, in accordance with UDOGM Order #139-87.

Based on the information provided, BBC requests that the permit be granted pursuant to Order #139-87. If you should have any questions or need further information, please contact me at 303-312-8544.

Sincerely,

A handwritten signature in blue ink that reads 'David Watts'.

David Watts  
Landman

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

**RECEIVED:** August 02, 2012

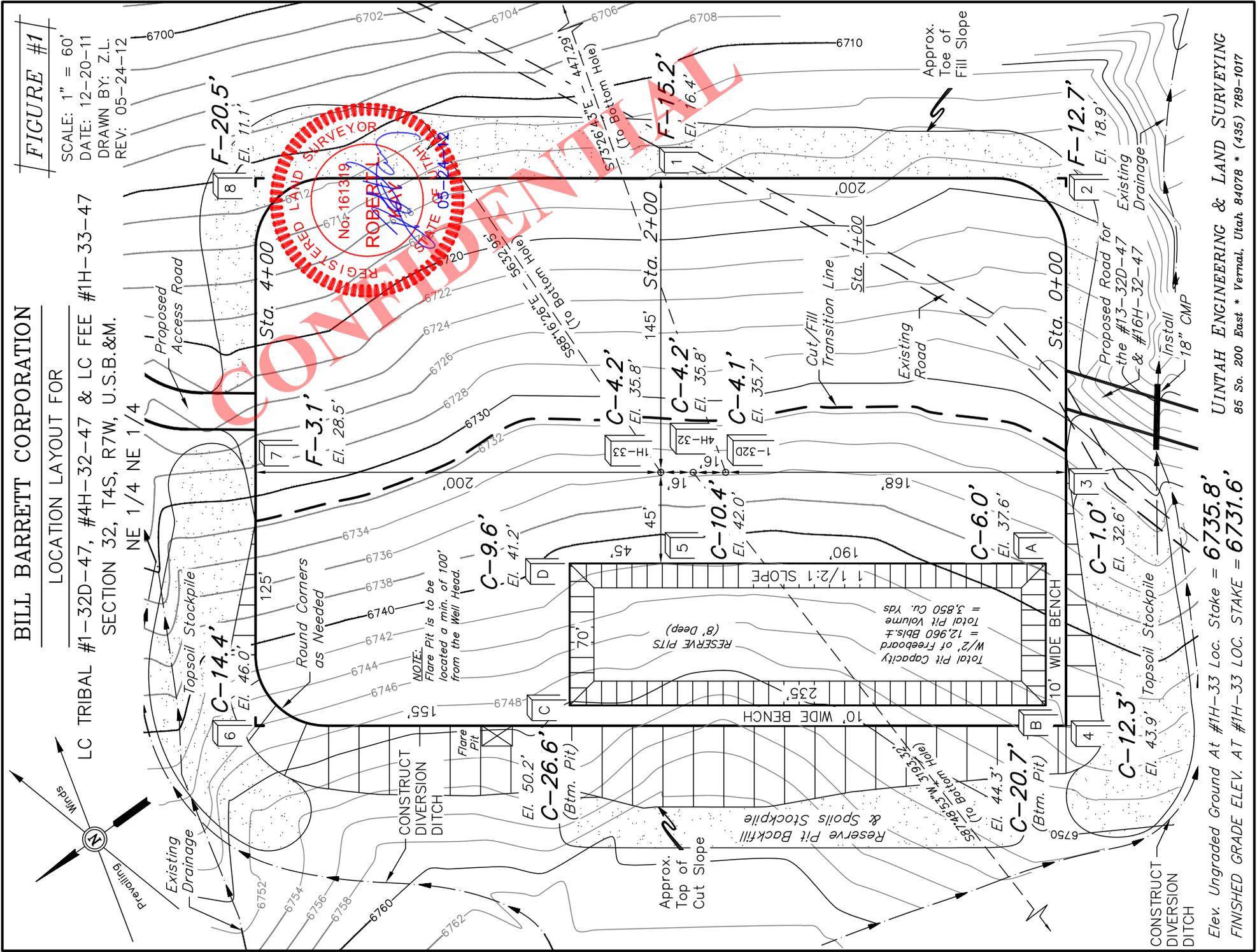
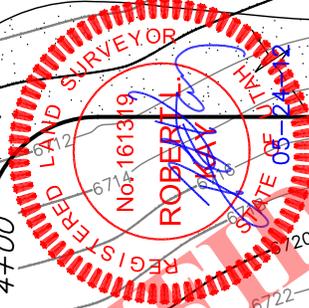
**BILL BARRETT CORPORATION**

**LOCATION LAYOUT FOR**

LC TRIBAL #1-32D-47, #4H-32-47 & LC FEE #1H-33-47  
SECTION 32, T4S, R7W, U.S.B.&M.  
NE 1/4 NE 1/4

**FIGURE #1**

SCALE: 1" = 60'  
DATE: 12-20-11  
DRAWN BY: Z.L.  
REV: 05-24-12



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

RESERVE PIT  
(8' Deep)  
W/2' of Freeboard  
= 12,960 Bbls.±  
Total Pit Capacity  
= 3,850 Cu. Yds

Elev. Ungraded Ground At #1H-33 Loc. Stake = **6735.8'**  
FINISHED GRADE ELEV. AT #1H-33 LOC. STAKE = **6731.6'**

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

**BILL BARRETT CORPORATION**

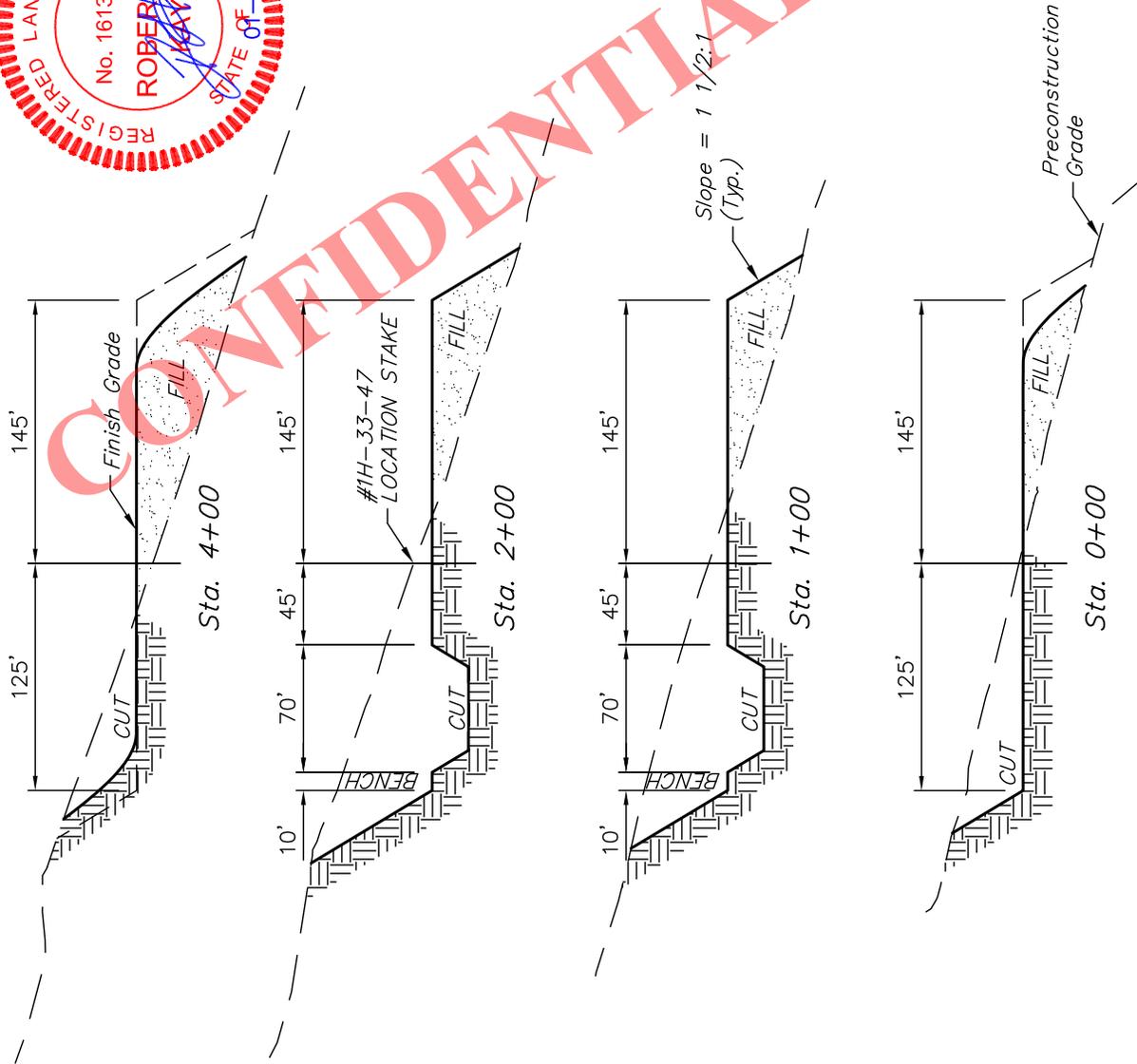
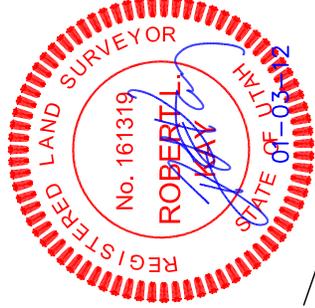
**TYPICAL CROSS SECTIONS FOR**

LC TRIBAL #1-32D-47, #4H-32-47 & LC FEE #1H-33-47  
 SECTION 32, T4S, R7W, U.S.B.&M.  
 NE 1/4 NE 1/4

X-Section  
 Scale  
 1" = 60'

DATE: 12-20-11  
 DRAWN BY: Z.L.

FIGURE #2



CONFIDENTIAL

**NOTE:**

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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE = ± 3.306 ACRES  
 ACCESS ROAD DISTURBANCE = ± 1.131 ACRES  
 PIPELINE DISTURBANCE = ± 1.133 ACRES  
**TOTAL = ± 5.570 ACRES**

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping = 5,450 Cu. Yds.  
 Remaining Location = 25,060 Cu. Yds.  
**TOTAL CUT = 30,510 CU.YDS.**  
**FILL = 23,140 CU.YDS.**

EXCESS MATERIAL = 7,370 Cu. Yds.  
 Topsoil & Pit Backfill = 7,370 Cu. Yds.  
 (1/2 Pit Vol.)  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

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

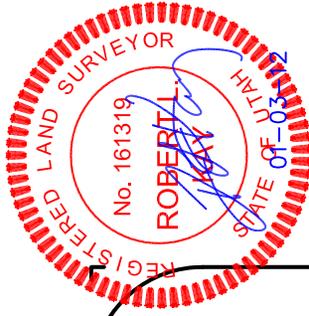
# BILL BARRETT CORPORATION

FIGURE #3

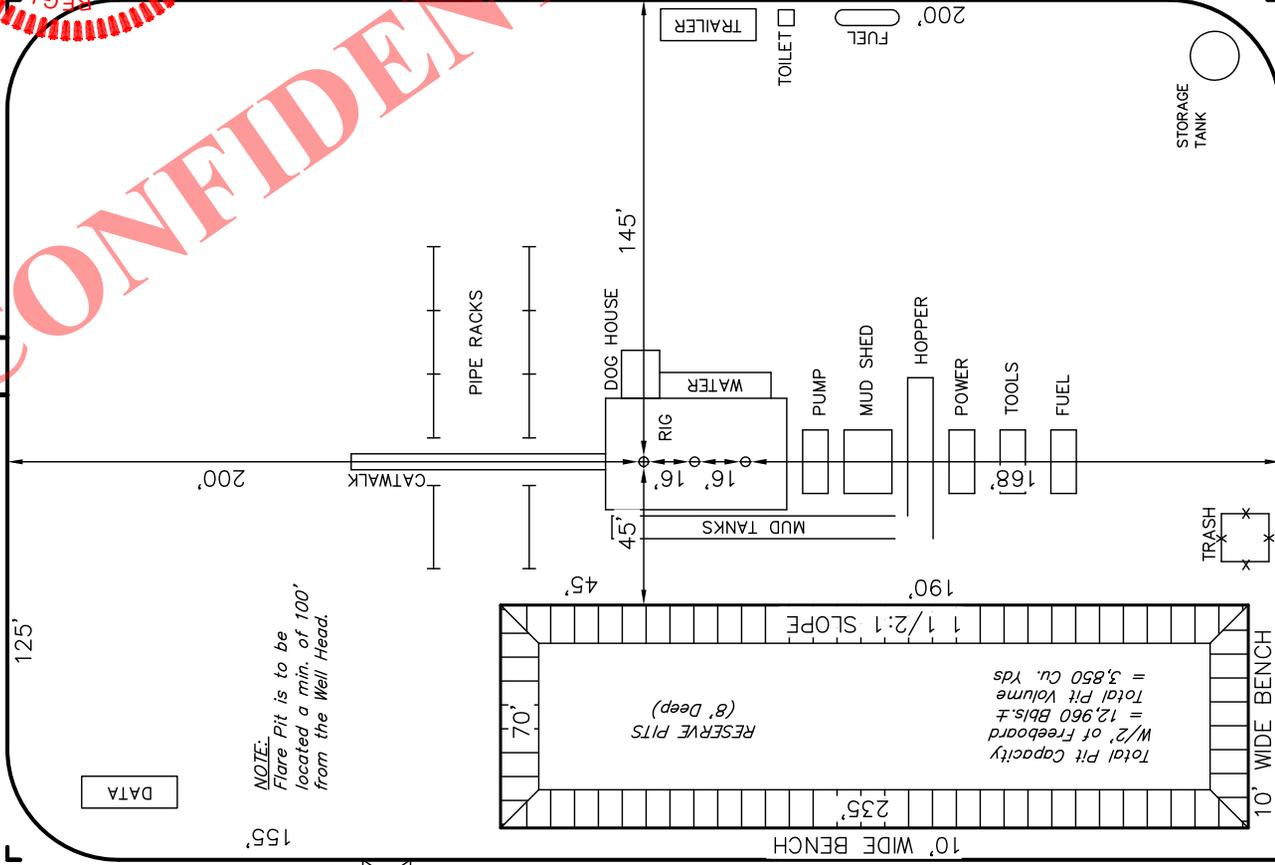
SCALE: 1" = 60'  
DATE: 12-20-11  
DRAWN BY: Z.L.

LC TRIBAL #1-32D-47, #4H-32-47 & LC FEE #1H-33-47  
SECTION 32, T4S, R7W, U.S.B.&M.  
NE 1/4 NE 1/4

Proposed Access Road



**CONFIDENTIAL**



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

RESERVE PITS (8' Deep)

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

1 1/2:1 SLOPE

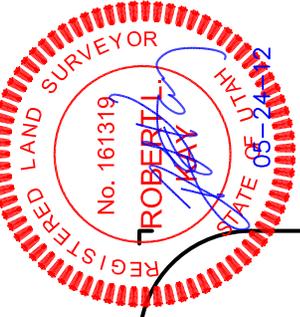


**BILL BARRETT CORPORATION**  
INTERIM RECLAMATION PLAN FOR

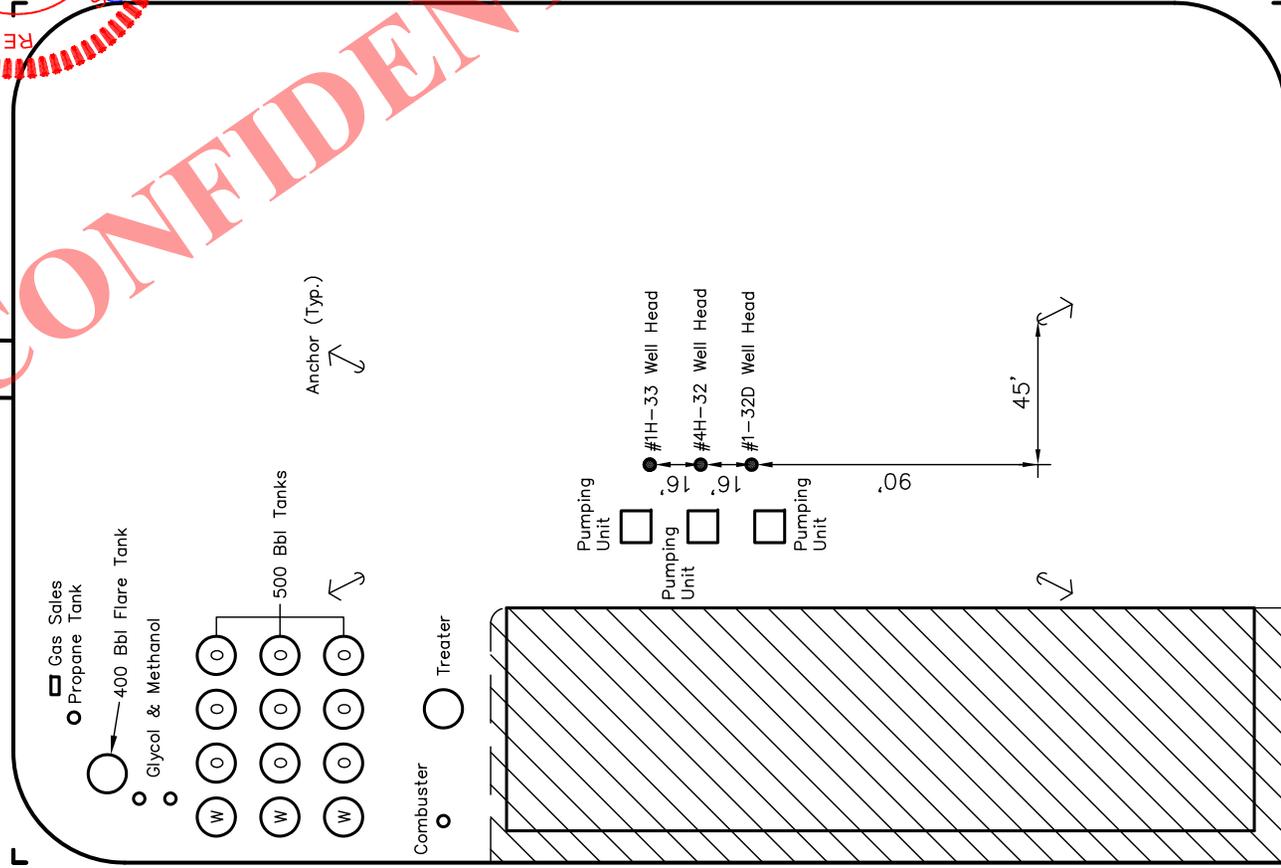
LC TRIBAL #1-32D-47, #4H-32-47 & LC FEE #1H-33-47  
SECTION 32, T4S, R7W, U.S.B.&M.  
NE 1/4 NE 1/4

**FIGURE #4**

SCALE: 1" = 60'  
DATE: 12-20-11  
DRAWN BY: Z.L.  
REV: 05-24-12



Access Road



**CONFIDENTIAL**

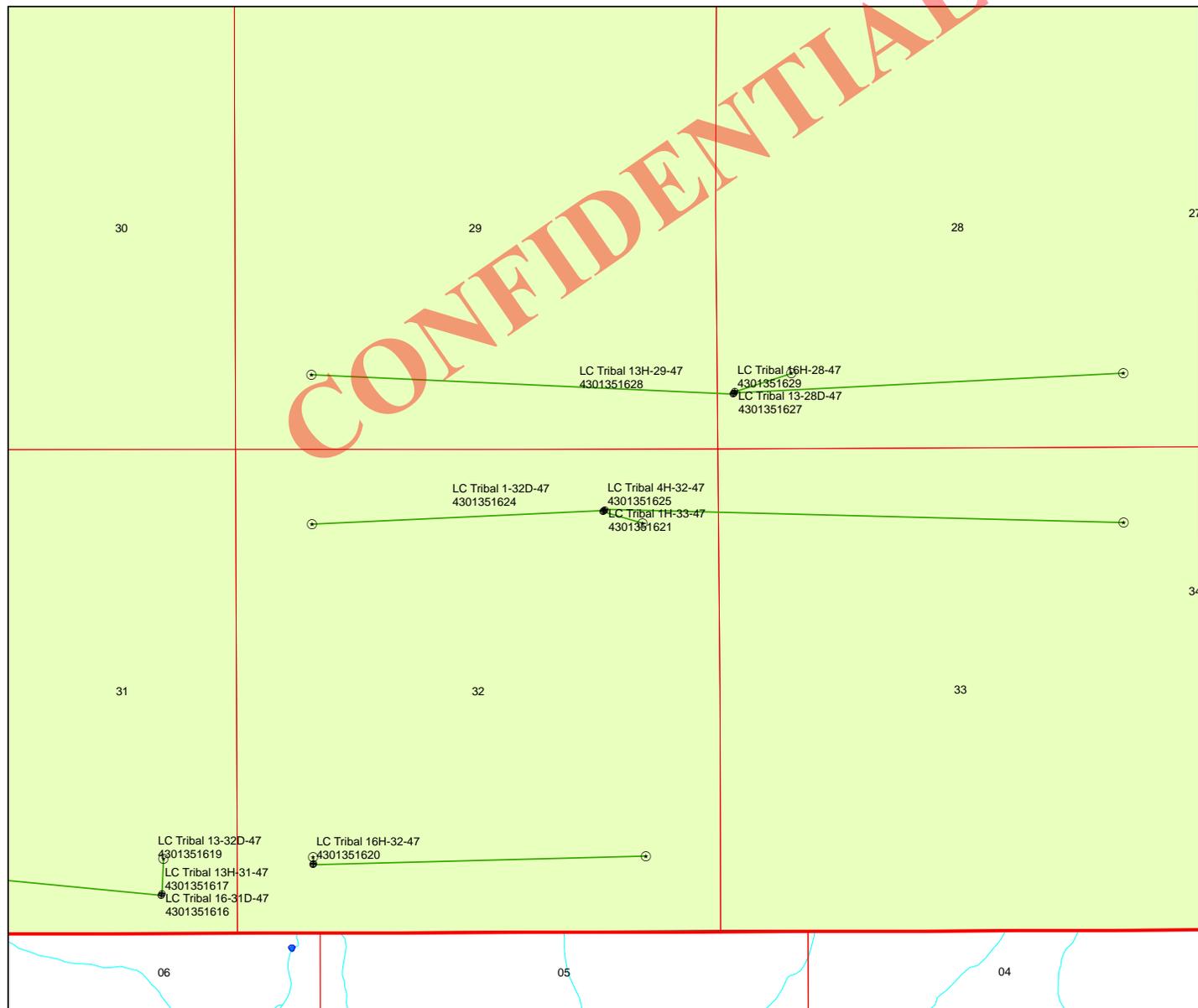


INTERIM RECLAMATION

APPROXIMATE ACRES  
UN-RECLAIMED = ± 2.002 ACRES

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85 So. 200 East \* Vernal, Utah 84078 \* (+35) 789-1017

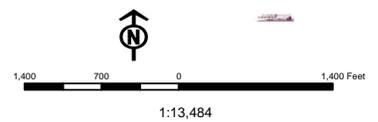
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**API Number: 4301351621**  
**Well Name: LC Tribal 1H-33-47**  
**Township T04.0S Range R07.0W Section 32**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

- | Units         | Wells Query                        |
|---------------|------------------------------------|
| <b>STATUS</b> | <b>STATUS</b>                      |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GIW - Gas Injection                |
| NF PP OIL     | GS - Gas Storage                   |
| NF SECONDARY  | LOC - New Location                 |
| P1 OIL        | OPS - Operation Suspended          |
| PP GAS        | PA - Plugged Abandoned             |
| PP GEOTHERML  | PGW - Producing Gas Well           |
| PP OIL        | POW - Producing Oil Well           |
| SECONDARY     | SGW - Shut-in Gas Well             |
| TERMINATED    | SOW - Shut-in Oil Well             |
| <b>Fields</b> | TA - Temp. Abandoned               |
| Unknown       | TW - Test Well                     |
| ABANDONED     | WDW - Water Disposal               |
| ACTIVE        | WW - Water Injection Well          |
| COMBINED      | WSW - Water Supply Well            |
| INACTIVE      | Bottom Hole Location - Oil/Gas/Dls |
| STORAGE       |                                    |
| TERMINATED    |                                    |



Well Name	BILL BARRETT CORP LC Tribal 1H-33-47 43013516210000			
String	Cond	Surf	I1	L1
Casing Size(")	16.000	9.625	7.000	4.500
Setting Depth (TVD)	80	800	4927	4942
Previous Shoe Setting Depth (TVD)	0	80	800	4927
Max Mud Weight (ppg)	8.8	8.8	9.2	9.5
BOPE Proposed (psi)	0	0	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	10690
Operators Max Anticipated Pressure (psi)	2441			9.5

Calculations	Cond String	16.000	"
Max BHP (psi)	.052*Setting Depth*MW=	37	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	27	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	19	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	19	NO
Required Casing/BOPE Test Pressure=		0	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

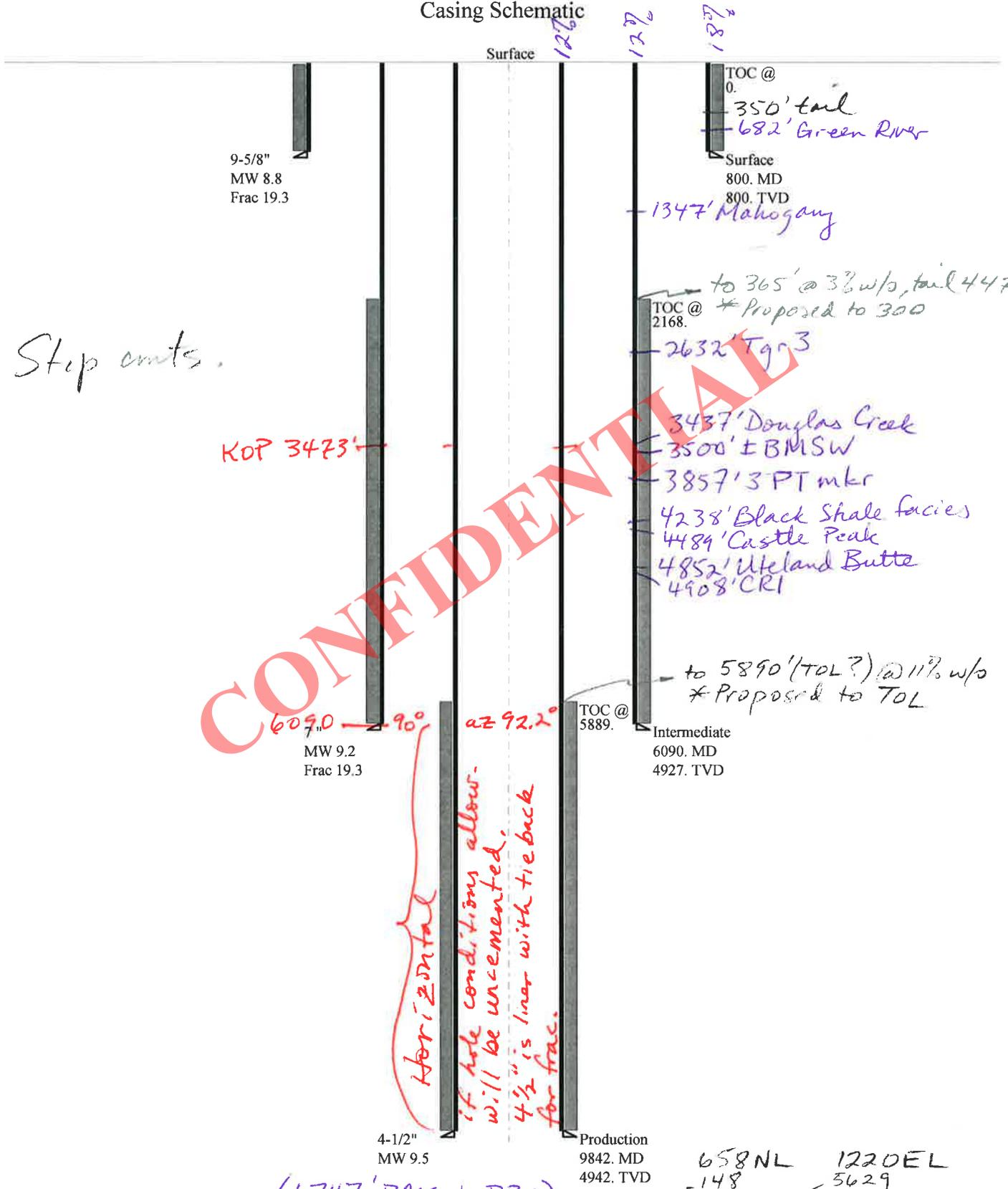
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	366	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	270	NO fresh water spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	190	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	208	NO
Required Casing/BOPE Test Pressure=		800	psi
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	2357	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1766	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1273	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1449	NO OK
Required Casing/BOPE Test Pressure=		4927	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	2441	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1848	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1354	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2438	YES
Required Casing/BOPE Test Pressure=		4942	psi
*Max Pressure Allowed @ Previous Casing Shoe=		4927	psi *Assumes 1psi/ft frac gradient

# 43013516210000 LC Tribal 1H-33-47

## Casing Schematic



Step cmts.

**CONFIDENTIAL**

(6747' BMSW-BBC)

658NL	1220EL
-148	3629
<u>306FNL</u>	4409
	5224
	815 FELV ✓

NE NE Sec 33-4S-7W OK.

Well name:	<b>43013516210000 LC Tribal 1H-33-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Surface	Project ID:	43-013-51621
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.800 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: 74 °F  
 Bottom hole temperature: 85 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 704 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 800 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on air weight.  
 Neutral point: 696 ft

Completion type is subs  
**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 4,927 ft  
 Next mud weight: 9.200 ppg  
 Next setting BHP: 2,355 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 800 ft  
 Injection pressure: 800 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)	Est. Cost (\$)
1	800	9.625	36.00	J-55	ST&C	800	800	8.796	6954
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	366	2020	5.523	800	3520	4.40	28.8	394	13.68 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: October 3, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.8 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:	<b>43013516210000 LC Tribal 1H-33-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Intermediate	Project ID:	43-013-51621
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 9.200 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 1,352 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 2,436 psi  
  
 No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 4,319 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 143 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 2,168 ft

Completion type is subs

**Directional well information:**

Kick-off point 0 ft  
 Departure at shoe: 1880 ft  
 Maximum dogleg: 5 °/100ft  
 Inclination at shoe: 89.77 °

**Re subsequent strings:**

Next setting depth: 4,942 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 2,439 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 4,927 ft  
 Injection pressure: 4,927 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)	Est. Cost (\$)
1	6090	7	26.00	P-110	LT&C	4927	6090	6.151	63306
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	2355	6167	2.619	2436	9950	4.09	128.1	693	5.41 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: October 3, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 4927 ft, a mud weight of 9.2 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:	<b>43013516210000 LC Tribal 1H-33-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Production	Project ID:	43-013-51621
Location:	DUCHESNE COUNTY		

**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: 74 °F  
 Bottom hole temperature: 143 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 5,889 ft

**Burst**

Max anticipated surface pressure: 1,352 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 2,439 psi

No backup mud specified.

**Tension:**

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

Tension is based on air weight.  
 Neutral point: 4,314 ft

Completion type is subs

**Directional well information:**

Kick-off point 0 ft  
 Departure at shoe: 5631 ft  
 Maximum dogleg: 5 °/100ft  
 Inclination at shoe: 89.77 °

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	9842	4.5	11.60	P-110	LT&C	4942	9842	3.875	47419
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	2439	7580	3.108	2439	10690	4.38	57.3	279	4.87 J

Prepared by: Helen Sadik-Macdonald  
 Div of Oil, Gas & Mining

Phone: 801 538-5357  
 FAX: 801-359-3940

Date: October 3, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 4942 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

---

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

---

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
6578	43013516210000	LOCKED	OW	I	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	LC Tribal 1H-33-47		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>	DRILL	
<b>Location</b>	NENE 32 4S 7W U 658 FNL (UTM) 526111E 4438345N		1220 FEL GPS Coord		

**Geologic Statement of Basis**

Bill Barrett proposes to set 80 feet of conductor and 800 feet of surface casing which will be cemented to surface. The surface hole will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 3,500 feet. A search of Division of Water Rights records indicates that there are no water wells within a 10,000 foot radius of the center of Section 32. Production casing cement should be brought up to or above the estimated base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
**APD Evaluator**

9/24/2012  
**Date / Time**

**Surface Statement of Basis**

The surface rights at the proposed location are owned by the Ute Tribe. The operator is responsible for obtaining all necessary surface permits and rights-of-way.

Brad Hill  
**Onsite Evaluator**

9/24/2012  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
	None.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/2/2012

API NO. ASSIGNED: 43013516210000

WELL NAME: LC Tribal 1H-33-47

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: NENE 32 040S 070W

Permit Tech Review: 

SURFACE: 0658 FNL 1220 FEL

Engineering Review: 

BOTTOM: 0810 FNL 0810 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.09498

LONGITUDE: -110.69369

UTM SURF EASTINGS: 526111.00

NORTHINGS: 4438345.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): UTELAND BUTTE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

## LOCATION AND SITING:

 PLAT R649-2-3. Bond: STATE/FEE - LPM4138148

Unit:

 Potash R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception Oil Shale 190-13 Drilling Unit Water Permit: 43-180

Board Cause No: Cause 139-87

 RDCC Review:

Effective Date: 12/6/2011

 Fee Surface Agreement

Siting: (4) Producing Grrv-Wstc Wells in Sec Drl Unit

 Intent to Commingle R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations:

- 1 - Exception Location - bhll
- 4 - Federal Approval - dmason
- 5 - Statement of Basis - bhll
- 10 - Cement Ground Water - hmadonald
- 12 - Cement Volume (3) - hmadonald
- 25 - Surface Casing - hmadonald
- 27 - Other - bhll



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** LC Tribal 1H-33-47  
**API Well Number:** 43013516210000  
**Lease Number:** Fee  
**Surface Owner:** INDIAN  
**Approval Date:** 11/1/2012

**Issued to:**

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

**Authority:**

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-87. The expected producing formation or pool is the UTELAND BUTTE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

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

**Exception Location:**

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

**General:**

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

**Conditions of Approval:**

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

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

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

The 7” casing string cement shall be brought back to ±300’ to isolate base of

moderately saline ground water, as indicated in submitted drill plan.

Cement volume for the 4 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 5900' (?) MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

**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  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website  
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program  
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**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 in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: LC TRIBAL 1H-33-47
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013516210000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0658 FNL 1220 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 32 Township: 04.0S Range: 07.0W Meridian: U		9. FIELD and POOL or WILDCAT: UNDESIGNATED
		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC is hereby requesting a one years extension for APD

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

**Date:** November 05, 2013

**By:** 

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/29/2013	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013516210000**

API: 43013516210000

Well Name: LC TRIBAL 1H-33-47

Location: 0658 FNL 1220 FEL QTR NENE SEC 32 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 11/1/2012

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Christina Hirtler

Date: 10/29/2013

Title: Administrative Assistant Representing: BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: LC TRIBAL 1H-33-47
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013516210000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0658 FNL 1220 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 32 Township: 04.0S Range: 07.0W Meridian: U		9. FIELD and POOL or WILDCAT: UNDESIGNATED
		COUNTY: DUCHESNE
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC is submitting this sundry to request a one year extension for APD.

**Approved by the**  
**September 15, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_  
**By:** *[Signature]*

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 9/11/2014	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43013516210000**

API: 43013516210000

Well Name: LC TRIBAL 1H-33-47

Location: 0658 FNL 1220 FEL QTR NENE SEC 32 TWNP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 11/1/2012

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

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- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Christina Hirtler

Date: 9/11/2014

Title: Permit Analyst Representing: BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> LC FEE 1H-33-47
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013516210000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0658 FNL 1220 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENE Section: 32 Township: 04.0S Range: 07.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>8/20/2015</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input checked="" type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> 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
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This sundry is being submitted to request that the name of the above well be changed from LC Tribal 1H-33-47 to LC Fee 1H-33-47.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
August 20, 2015**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/20/2015	



GARY R. HERBERT  
*Governor*

SPENCER J. COX  
*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*

November 5, 2015

Bill Barrett Corp.  
1099 18th Street, Suite 2300  
Denver, CO 80202

Re: APDs Rescinded for Bill Barrett Corp., Duchesne and Uintah County

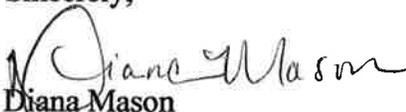
Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of November 5, 2015.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

  
Diana Mason  
Environmental Scientist

cc: Well File  
Bureau of Land Management, Vernal

43-047-53284	FD 11-14-6-19
43-013-51593	13-30-21 SA
43-013-51612	10-32-22 SA
43-013-51621	LC FEE 1H-33-47