

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 16H-36-48							
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 WILDCAT							
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) 2OG0005500			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		479 FSL 730 FEL		SESE		35		4.0 S		8.0 W		U	
Top of Uppermost Producing Zone		660 FSL 660 FWL		SWSW		36		4.0 S		8.0 W		U	
At Total Depth		810 FSL 810 FEL		SESE		36		4.0 S		8.0 W		U	
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640							
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 22275			26. PROPOSED DEPTH MD: 9115 TVD: 4530							
27. ELEVATION - GROUND LEVEL 6627			28. BOND NUMBER LPM8874725			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 - 5333	26.0	P-110 LT&C	9.2	Unknown		200	3.14	14.8		
							Unknown		180	1.42	13.5		
L1	6.125	4.5	0 - 9115	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 11/06/2012				EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013518490000				APPROVAL				 Permit Manager					

**DRILLING PLAN**

BILL BARRETT CORPORATION

LC Tribal 16H-36-48

SHL: SE SE, 479' FSL and 730' FEL, Section 35, T4S-R8W

BHL: SE SE, 810' FSL and 810' FEL, Section 36, T4S-R8W

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	85'	85'
Surface casing	800'	800'
Mahogany	680'	680'
TGR3	2,180'	2,180'
Douglas Creek	2,975'	2,975'
3 PT Marker	3,410'	3,410'
Black Shale Facies	3,765'	3,756'
Castle Peak	4,057'	3,980'
*Uteland Butte	4,858'	4,367'
TD	9,115'	4,530'

**\*PROSPECTIVE PAY**

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

Base of Useable Water = 8,640'

**4. Casing Program**

<b>Hole Size</b>	<b>SETTING DEPTH</b>		<b>Casing Size</b>	<b>Casing Weight</b>	<b>Casing Grade</b>	<b>Thread</b>	<b>Condition</b>
	<b>(FROM)</b>	<b>(TO)</b>					
12-1/4"	surface	800'	9 5/8"	36.0 ppf	J or K 55	ST&C	New
8 3/4"	surface	5,333'	7"	26.0 ppf	P-110	LT&C	New
6 1/8"	surface	9,115'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan  
LC Tribal 16H-36-48  
Duchesne Co., UT

### 5. Cementing Program

9 5/8" Surface Casing	<i>Lead</i> 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 <i>Tail</i> with 210 sx Premium 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx) calculated hole volume with 75% excess. TOC @ 300' <i>Top out cement</i> , 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	<i>Lead</i> with approximately 200 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft <sup>3</sup> /sx). TOC @ 300' <i>Tail</i> with approximately 180 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). TOC @ 2,955'
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' – 5,333'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
5,333' – 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'	NU Diverter or Rotating Head
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 16H-36-48  
 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 2237 psi\* and maximum anticipated surface pressure equals approximately 1241 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

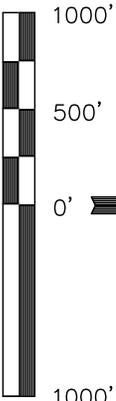
# T4S, R8W, U.S.B.&M.

# BILL BARRETT CORPORATION

Well location, LC TRIBAL #16H-36-48 (SURFACE LOCATION), located as shown in the SE 1/4 SE 1/4 of Section 35, T4S, R8W, U.S.B.&M., Duchesne County, Utah.

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 ELEVATION



### 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.

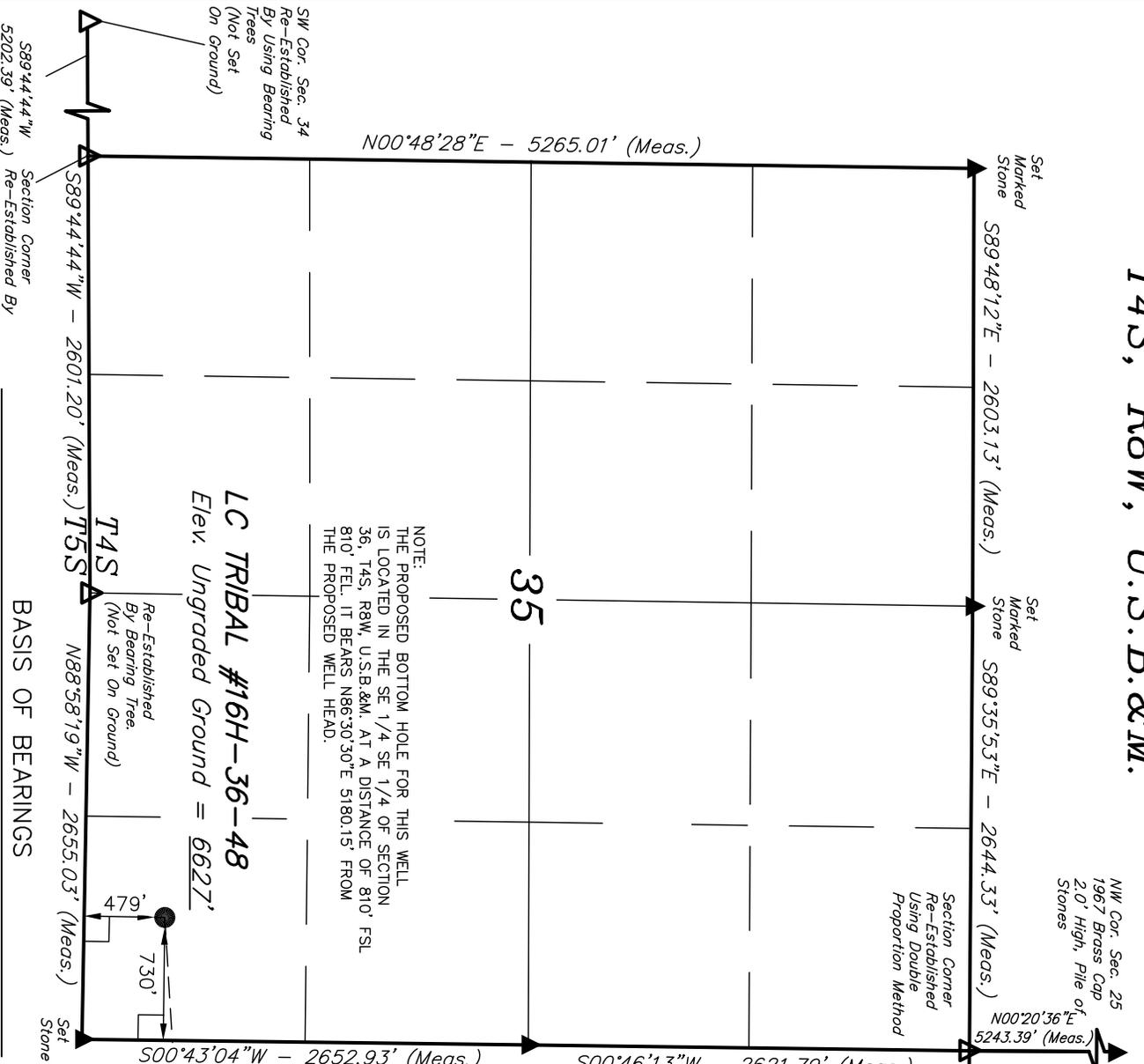
Target  
Hole Bottom

REGISTRED LAND SURVEYOR  
KAX ROBERTS  
REGISTRATION NO. 161319  
STATE OF UTAH  
02-08-12

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

SCALE 1" = 1000'  
DATE SURVEYED: 11-14-11  
DATE DRAWN: 1-3-12

PARTY C.H. K.H. R.L.  
WEATHER COOL  
REFERENCES G.L.O. PLAT  
FILE BILL BARRETT CORPORATION



NOTE:  
THE PROPOSED BOTTOM HOLE FOR THIS WELL IS LOCATED IN THE SE 1/4 SE 1/4 OF SECTION 36, T4S, R8W, U.S.B.&M. AT A DISTANCE OF 810' FSL 810' FELL. IT BEARS N86°30'30"E 5180.15' FROM THE PROPOSED WELL HEAD.

**LC TRIBAL #16H-36-48**  
Elev. Ungraded Ground = 6627'

BASIS OF BEARINGS

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

- Section Corner Re-Established By Single Proportion Method (Not Set On Ground)
- 90° SYMBOL
- PROPOSED WELL HEAD.
- SECTION CORNERS LOCATED.

NAD 83 (SURFACE LOCATION)	
LATITUDE = 40°05'01.48"	(40.083744)
LONGITUDE = 110°44'52.88"	(110.748022)
NAD 27 (SURFACE LOCATION)	
LATITUDE = 40°05'01.63"	(40.083786)
LONGITUDE = 110°44'50.32"	(110.747311)

**T4S, R8W, U.S.B.&M.**

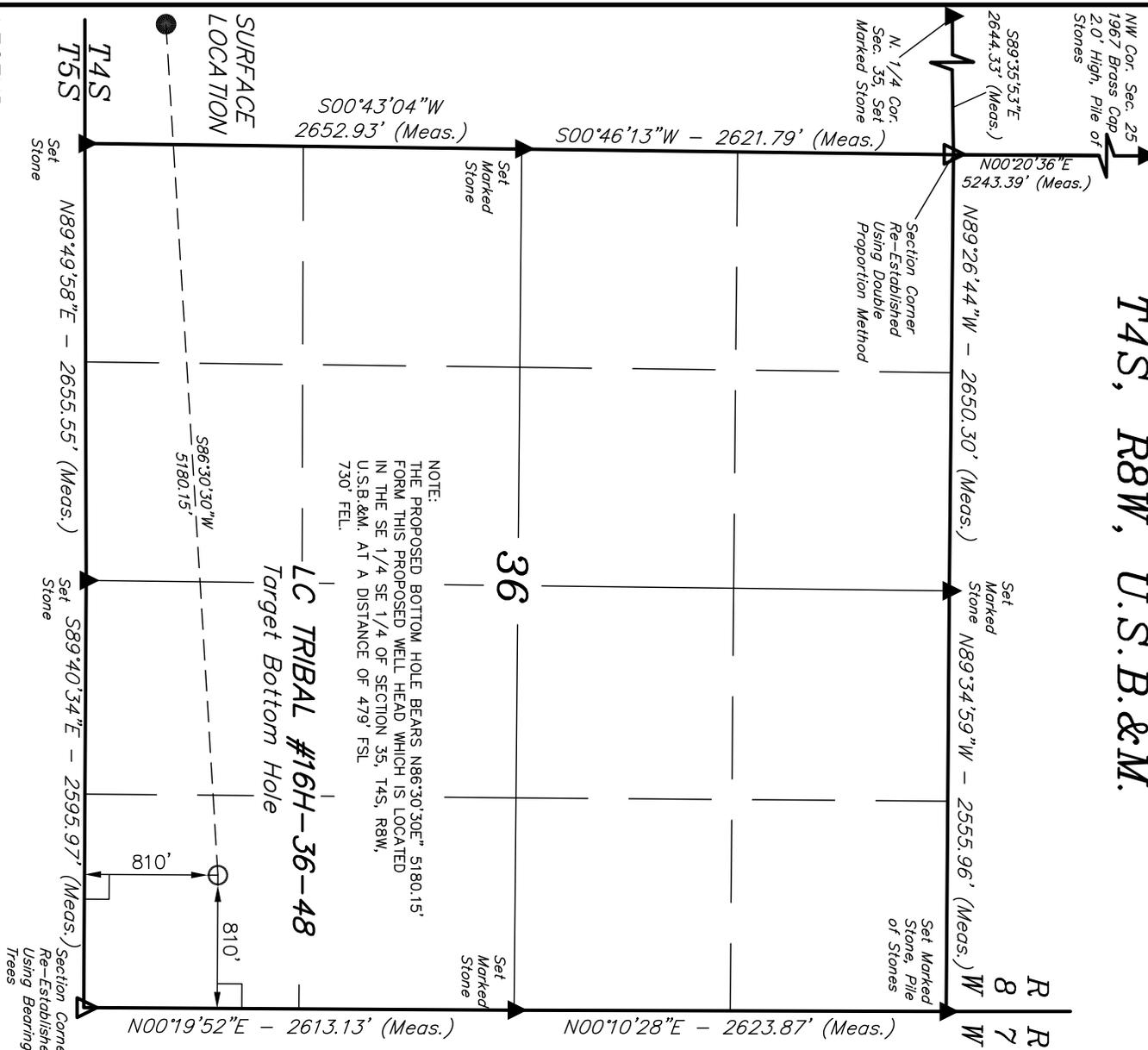
**BILL BARRETT CORPORATION**

Well location, LC TRIBAL #16H-36-48 (TARGET BOTTOM HOLE), located as shown in the SE 1/4 of Section 36, T4S, R8W, 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 N86°30'30E" 5180.15'  
FROM THIS PROPOSED WELL HEAD WHICH IS LOCATED  
IN THE SE 1/4 SE 1/4 OF SECTION 35, T4S, R8W,  
U.S.B.&M. AT A DISTANCE OF 479' FSL  
730' FEL.

**LC TRIBAL #16H-36-48**  
Target Bottom Hole

LEGEND:

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

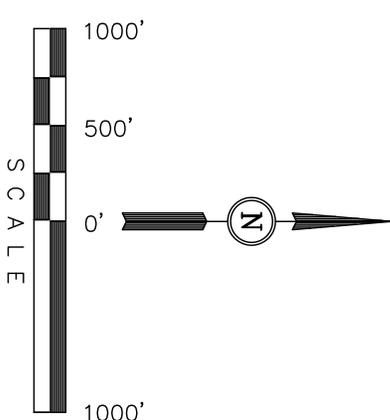
NAD 83 (TARGET BOTTOM HOLE)	
LATITUDE =	40°05'04.82" (40.084672)
LONGITUDE =	110°43'46.40" (110.729556)
NAD 27 (TARGET BOTTOM HOLE)	
LATITUDE =	40°05'04.97" (40.084714)
LONGITUDE =	110°43'43.84" (110.728844)

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>	
85 SOUTH 200 EAST - VERNAL, UTAH 84078	
(435) 789-1017	
SCALE	1" = 1000'
PARTY	C.H. K.H. R.L.
WEATHER	COOL
DATE SURVEYED:	11-14-11
DATE DRAWN:	1-3-12
REFERENCES	G.I.O. PLAT
FILE	BILL BARRETT CORPORATION

CERTIFICATE

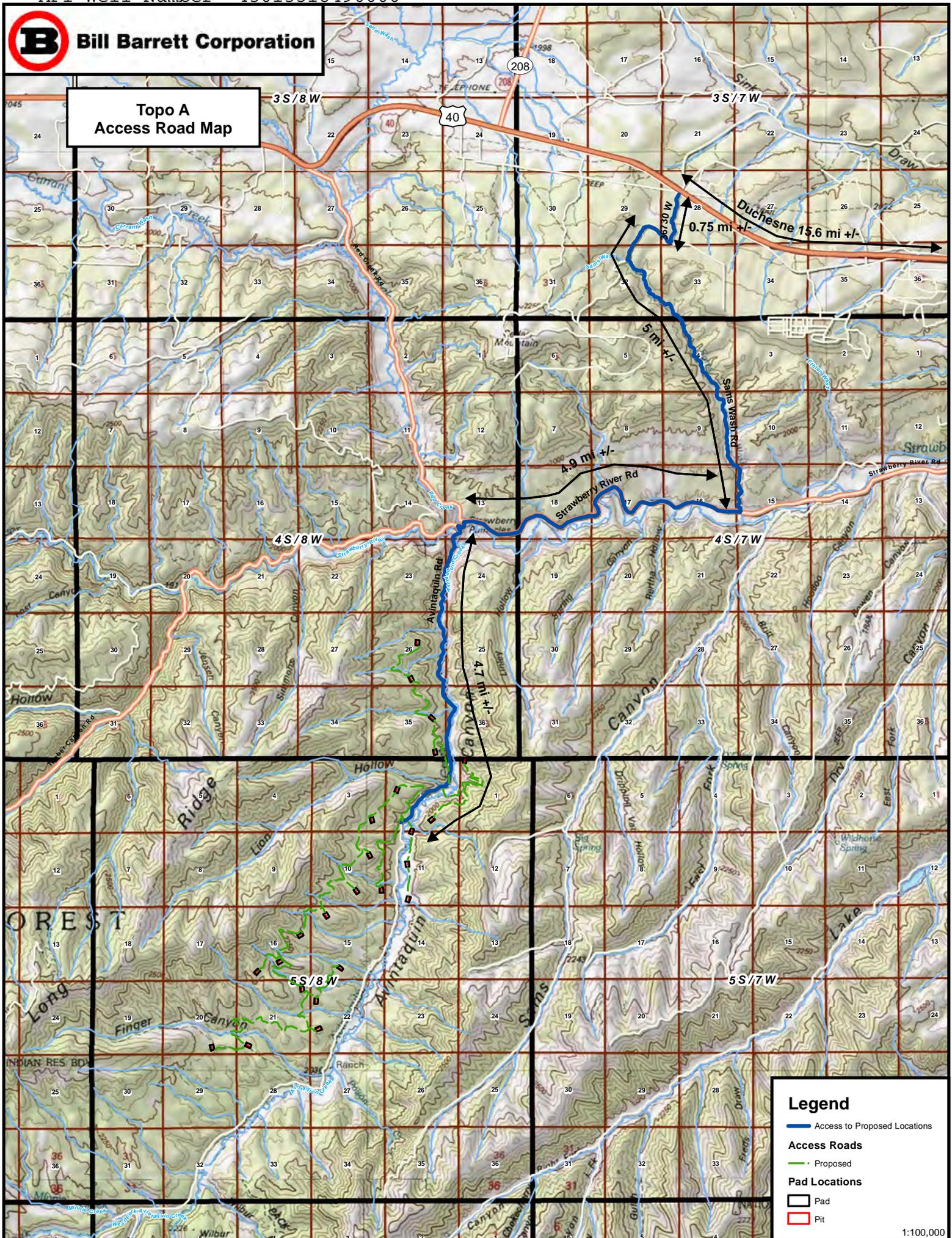
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**KAY ROBERTS**  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH  
02-08-12





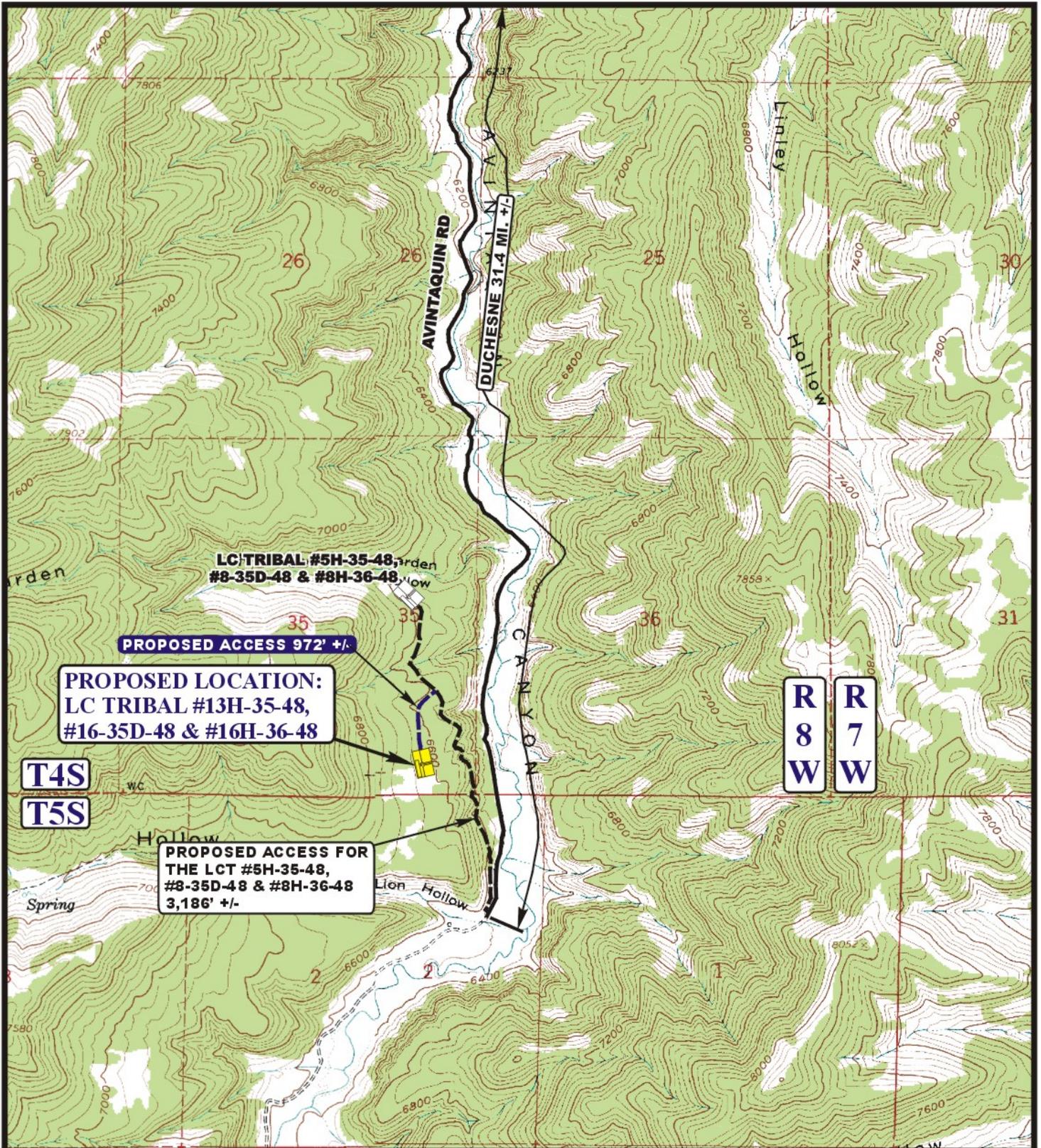
### Topo A Access Road Map



**Legend**

- Access to Proposed Locations
- Access Roads
- Proposed
- Pad
- Pit

1:100,000



**LEGEND:**

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD

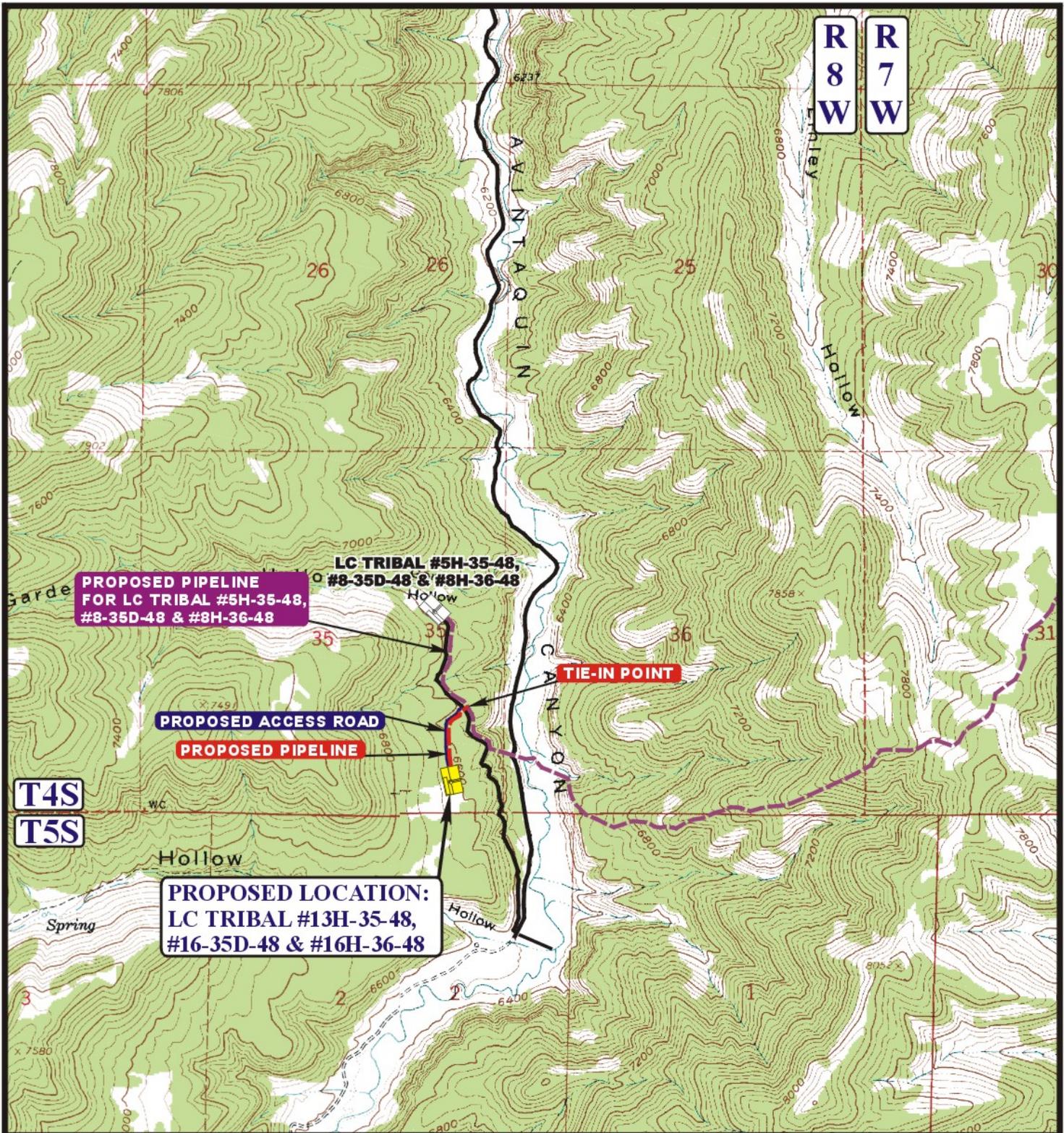
**BILL BARRETT CORPORATION**

LC TRIBAL #13H-35-48, #16-35D-48 & #16H-36-48  
 SECTION 35, T4S, R8W, U.S.B.&M.  
 SE 1/4 SE 1/4

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



ACCESS ROAD MAP	12	15	11	<b>B</b> TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: A.T		REVISED: 00-00-00	



**APPROXIMATE TOTAL PIPELINE DISTANCE = 989' +/-**

**LEGEND:**

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

**BILL BARRETT CORPORATION**

**LC TRIBAL #13H-35-48, #16-35D-48 & #16H-36-48  
SECTION 35, T4S, R8W, U.S.B.&M.  
SE 1/4 SE 1/4**



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



**TOPOGRAPHIC  
MAP**

**12 15 11**  
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: A.T

REVISED: 00-00-00





SITE DETAILS: 16H-36-48 LC Tribal  
Lake Canyon

Site Latitude: 40° 5' 1.630 N  
Site Longitude: 110° 44' 50.320 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: 0.48  
Local North: True

**WELL DETAILS: 16H-36-48 LC Tribal**

Ground Level: 6625.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	638450.26	2210601.38	40° 5' 1.630 N	110° 44' 50.320 W	

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
16H-36-48 LP	4440.0	181.0	1390.0	40° 5' 3.418 N	110° 44' 32.435 W	Point
16H-36-48 PBHL	4530.0	338.6	5167.0	40° 5' 4.970 N	110° 43' 43.838 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

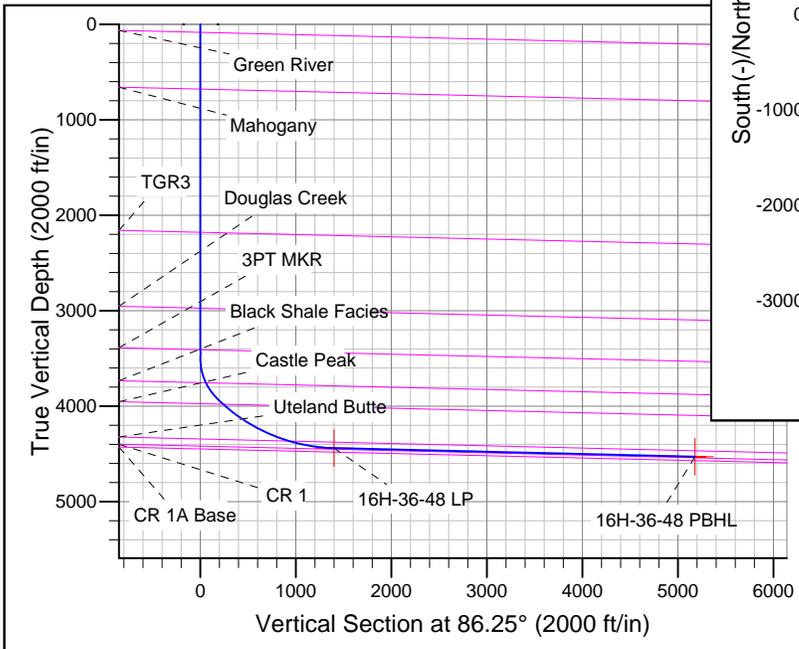
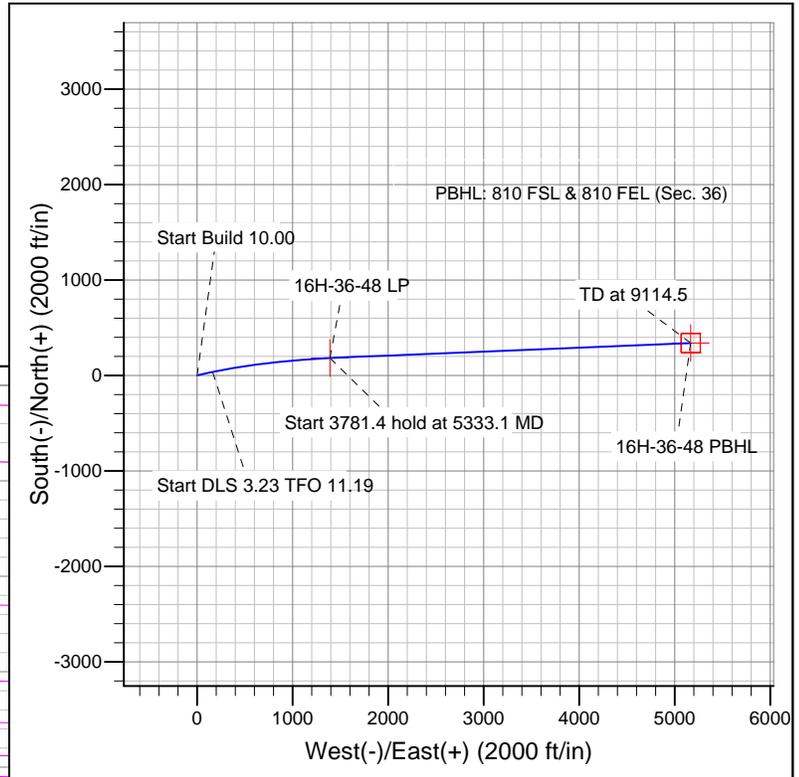
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3505.6	0.00	0.00	3505.6	0.0	0.0	0.00	0.00	0.0	
3	3955.7	45.00	78.22	3910.8	34.3	164.3	10.00	78.22	166.2	
4	5333.1	88.64	87.61	4440.0	181.0	1390.0	3.23	11.19	1398.9	16H-36-48 LP
5	9114.5	88.64	87.61	4530.0	338.6	5167.0	0.00	0.00	5178.1	16H-36-48 PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
		CR 1
		CR 1A Base
85.0	85.0	Green River
680.0	680.0	Mahogany
2180.0	2180.0	TGR3
2975.0	2975.0	Douglas Creek
3410.0	3410.0	3PT MKR
3756.4	3765.1	Black Shale Facies
3980.7	4057.4	Castle Peak
4367.1	4858.9	Uteland Butte

**CASING DETAILS**

No casing data is available



Azimuths to True North  
 Magnetic North: 11.45°  
 Magnetic Field  
 Strength: 52076.2snT  
 Dip Angle: 65.66°  
 Date: 7/18/2012  
 Model: IGRF2010

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16H-36-48 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Site:</b>	16H-36-48 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	16H-36-48 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	16H-36-48 LC Tribal		
<b>Design:</b>	Design #1		

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

<b>Site</b>	16H-36-48 LC Tribal				
<b>Site Position:</b>		<b>Northing:</b>	638,450.27 ft	<b>Latitude:</b>	40° 5' 1.630 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,210,601.38 ft	<b>Longitude:</b>	110° 44' 50.320 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.48 °

<b>Well</b>	16H-36-48 LC Tribal					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	638,450.26 ft	<b>Latitude:</b>	40° 5' 1.630 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,210,601.38 ft	<b>Longitude:</b>	110° 44' 50.320 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,625.0 ft

<b>Wellbore</b>	16H-36-48 LC Tribal				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/18/2012	11.45	65.66	52,076

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	86.25

<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	
3,505.6	0.00	0.00	3,505.6	0.0	0.0	0.00	0.00	0.00	0.00	
3,955.7	45.00	78.22	3,910.8	34.3	164.3	10.00	10.00	0.00	78.22	
5,333.1	88.64	87.61	4,440.0	181.0	1,390.0	3.23	3.17	0.68	11.19	16H-36-48 LP
9,114.5	88.64	87.61	4,530.0	338.6	5,167.0	0.00	0.00	0.00	0.00	16H-36-48 PBHL

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16H-36-48 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Site:</b>	16H-36-48 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	16H-36-48 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	16H-36-48 LC Tribal		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
85.0	0.00	0.00	85.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Green River</b>									
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
680.0	0.00	0.00	680.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Mahogany</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
1,400.0	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
2,180.0	0.00	0.00	2,180.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>TGR3</b>									
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
2,975.0	0.00	0.00	2,975.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Douglas Creek</b>									
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
3,410.0	0.00	0.00	3,410.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>3PT MKR</b>									
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,505.6	0.00	0.00	3,505.6	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	9.43	78.22	3,599.6	1.6	7.6	7.7	10.00	10.00	0.00
3,700.0	19.43	78.22	3,696.3	6.7	32.0	32.3	10.00	10.00	0.00
3,765.1	25.95	78.22	3,756.4	11.8	56.5	57.2	10.00	10.00	0.00
<b>Black Shale Facies</b>									
3,800.0	29.43	78.22	3,787.2	15.1	72.4	73.2	10.00	10.00	0.00
3,900.0	39.43	78.22	3,869.6	26.6	127.7	129.2	10.00	10.00	0.00

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16H-36-48 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Site:</b>	16H-36-48 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	16H-36-48 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	16H-36-48 LC Tribal		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
3,955.7	45.00	78.22	3,910.8	34.3	164.3	166.2	10.00	10.00	0.00	
4,000.0	46.40	78.52	3,941.8	40.7	195.4	197.6	3.21	3.17	0.68	
4,057.4	48.22	78.91	3,980.7	48.9	236.7	239.4	3.21	3.17	0.68	
<b>Castle Peak</b>										
4,100.0	49.57	79.20	4,008.7	55.0	268.3	271.3	3.21	3.17	0.69	
4,200.0	52.74	79.89	4,071.4	69.1	344.8	348.6	3.21	3.17	0.68	
4,300.0	55.91	80.57	4,129.7	82.9	424.9	429.4	3.22	3.17	0.68	
4,400.0	59.08	81.25	4,183.4	96.2	508.2	513.4	3.22	3.17	0.68	
4,500.0	62.25	81.93	4,232.4	109.0	594.4	600.2	3.22	3.17	0.68	
4,600.0	65.41	82.61	4,276.5	121.0	683.3	689.8	3.23	3.17	0.68	
4,700.0	68.58	83.29	4,315.6	132.3	774.6	781.6	3.23	3.17	0.68	
4,800.0	71.75	83.98	4,349.5	142.8	868.1	875.6	3.23	3.17	0.68	
4,858.9	73.62	84.38	4,367.1	148.5	924.1	931.8	3.23	3.17	0.68	
<b>Uteland Butte</b>										
4,900.0	74.92	84.66	4,378.2	152.2	963.4	971.3	3.23	3.17	0.68	
5,000.0	78.09	85.34	4,401.5	160.7	1,060.3	1,068.5	3.24	3.17	0.68	
5,100.0	81.25	86.02	4,419.5	168.1	1,158.4	1,166.9	3.24	3.17	0.68	
5,200.0	84.42	86.70	4,431.9	174.4	1,257.4	1,266.1	3.24	3.17	0.68	
5,300.0	87.59	87.39	4,438.9	179.6	1,357.0	1,365.8	3.24	3.17	0.68	
5,333.1	88.64	87.61	4,440.0	181.0	1,390.0	1,398.9	3.24	3.17	0.68	
<b>16H-36-48 LP</b>										
5,400.0	88.64	87.61	4,441.6	183.8	1,456.9	1,465.8	0.00	0.00	0.00	
5,500.0	88.64	87.61	4,444.0	188.0	1,556.8	1,565.7	0.00	0.00	0.00	
5,600.0	88.64	87.61	4,446.4	192.1	1,656.6	1,665.7	0.00	0.00	0.00	
5,700.0	88.64	87.61	4,448.7	196.3	1,756.5	1,765.6	0.00	0.00	0.00	
5,800.0	88.64	87.61	4,451.1	200.5	1,856.4	1,865.5	0.00	0.00	0.00	
5,900.0	88.64	87.61	4,453.5	204.6	1,956.3	1,965.5	0.00	0.00	0.00	
6,000.0	88.64	87.61	4,455.9	208.8	2,056.2	2,065.4	0.00	0.00	0.00	
6,100.0	88.64	87.61	4,458.3	213.0	2,156.1	2,165.4	0.00	0.00	0.00	
6,200.0	88.64	87.61	4,460.6	217.1	2,255.9	2,265.3	0.00	0.00	0.00	
6,300.0	88.64	87.61	4,463.0	221.3	2,355.8	2,365.3	0.00	0.00	0.00	
6,400.0	88.64	87.61	4,465.4	225.5	2,455.7	2,465.2	0.00	0.00	0.00	
6,500.0	88.64	87.61	4,467.8	229.6	2,555.6	2,565.1	0.00	0.00	0.00	
6,600.0	88.64	87.61	4,470.2	233.8	2,655.5	2,665.1	0.00	0.00	0.00	
6,700.0	88.64	87.61	4,472.5	238.0	2,755.4	2,765.0	0.00	0.00	0.00	
6,800.0	88.64	87.61	4,474.9	242.1	2,855.3	2,865.0	0.00	0.00	0.00	
6,900.0	88.64	87.61	4,477.3	246.3	2,955.1	2,964.9	0.00	0.00	0.00	
7,000.0	88.64	87.61	4,479.7	250.5	3,055.0	3,064.9	0.00	0.00	0.00	
7,100.0	88.64	87.61	4,482.0	254.6	3,154.9	3,164.8	0.00	0.00	0.00	
7,200.0	88.64	87.61	4,484.4	258.8	3,254.8	3,264.7	0.00	0.00	0.00	
7,300.0	88.64	87.61	4,486.8	263.0	3,354.7	3,364.7	0.00	0.00	0.00	
7,400.0	88.64	87.61	4,489.2	267.1	3,454.6	3,464.6	0.00	0.00	0.00	
7,500.0	88.64	87.61	4,491.6	271.3	3,554.4	3,564.6	0.00	0.00	0.00	
7,600.0	88.64	87.61	4,493.9	275.5	3,654.3	3,664.5	0.00	0.00	0.00	
7,700.0	88.64	87.61	4,496.3	279.6	3,754.2	3,764.5	0.00	0.00	0.00	
7,800.0	88.64	87.61	4,498.7	283.8	3,854.1	3,864.4	0.00	0.00	0.00	
7,900.0	88.64	87.61	4,501.1	288.0	3,954.0	3,964.4	0.00	0.00	0.00	
8,000.0	88.64	87.61	4,503.5	292.1	4,053.9	4,064.3	0.00	0.00	0.00	
8,100.0	88.64	87.61	4,505.8	296.3	4,153.8	4,164.2	0.00	0.00	0.00	
8,200.0	88.64	87.61	4,508.2	300.5	4,253.6	4,264.2	0.00	0.00	0.00	
8,300.0	88.64	87.61	4,510.6	304.6	4,353.5	4,364.1	0.00	0.00	0.00	
8,400.0	88.64	87.61	4,513.0	308.8	4,453.4	4,464.1	0.00	0.00	0.00	
8,500.0	88.64	87.61	4,515.4	313.0	4,553.3	4,564.0	0.00	0.00	0.00	

## Bill Barrett Corp

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 16H-36-48 LC Tribal
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6640.0ft (Original Well Elev)
<b>Site:</b>	16H-36-48 LC Tribal	<b>North Reference:</b>	True
<b>Well:</b>	16H-36-48 LC Tribal	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	16H-36-48 LC Tribal		
<b>Design:</b>	Design #1		

## Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,600.0	88.64	87.61	4,517.7	317.1	4,653.2	4,664.0	0.00	0.00	0.00
8,700.0	88.64	87.61	4,520.1	321.3	4,753.1	4,763.9	0.00	0.00	0.00
8,800.0	88.64	87.61	4,522.5	325.5	4,852.9	4,863.8	0.00	0.00	0.00
8,900.0	88.64	87.61	4,524.9	329.6	4,952.8	4,963.8	0.00	0.00	0.00
9,000.0	88.64	87.61	4,527.3	333.8	5,052.7	5,063.7	0.00	0.00	0.00
9,100.0	88.64	87.61	4,529.6	338.0	5,152.6	5,163.7	0.00	0.00	0.00
9,114.5	88.64	87.61	4,530.0	338.6	5,167.0	5,178.1	0.00	0.00	0.00

16H-36-48 PBHL

## Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
85.0	85.0	Green River		1.36	87.61
680.0	680.0	Mahogany		1.36	87.61
2,180.0	2,180.0	TGR3		1.36	87.61
2,975.0	2,975.0	Douglas Creek		1.36	87.61
3,410.0	3,410.0	3PT MKR		1.36	87.61
3,765.1	3,755.0	Black Shale Facies		1.36	87.61
4,057.4	3,975.0	Castle Peak		1.36	87.61
4,858.9	4,345.0	Uteland Butte		1.36	87.61
	4,420.0	CR 1		1.36	87.61
	4,450.0	CR 1A Base		1.36	87.61

**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad**

Duchesne County, Utah

<p align="center"><b><u>LC Tribal 13H-35-48</u></b></p> <p>SESE, 495' FSL &amp; 734' FEL, Sec. 35, T4S-R8W (surface hole) SWSW, 810' FSL &amp; 700' FWL, Sec. 35, T4S-R8W (bottom hole)</p>	<p align="center"><b><u>LC Tribal 16-35D-48</u></b></p> <p>SESE, 510' FSL &amp; 737' FEL, Sec. 35, T4S-R8W (surface hole) SESE, 810' FSL &amp; 810' FEL, Sec. 35, T4S-R8W (bottom hole)</p>
<p align="center"><b><u>LC Tribal 16H-36-48</u></b></p> <p>SESE, 479' FSL &amp; 730' FEL, Sec. 35, T4S-R8W (surface hole) SESE, 810' FSL &amp; 810' FEL, Sec. 36, T4S-R8W (bottom hole)</p>	

The onsite inspection for this pad occurred on May 31, 2012. This is a new pad with three proposed wells. Plat changes and site specific stipulations requested at the onsite are reflected within this APD and summarized below.

- 1) Salvaged timber to remain for firewood, remaining slash for reclamation efforts (do not place firewood behind the pipeline);
- 2) BBC will need to reimburse for some of the fire wood since merchantable Doug fir is present;
- 3) Production equipment to the pad entrance to maximize interim reclamation efforts;

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

1. **Existing Roads:**

- a. The proposed well site is located 31 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing State Highway 40 would be utilized for 15.6 miles from Duchesne, Utah to the Duchesne County maintained 36730 W Road that would be utilized for 0.75 miles to the existing Sams Wash Road that would be utilized for 5 miles to the existing Strawberry River Road that would be utilized for 4.9 miles to the Avintaquin Road that would be utilized for 3.7 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.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

- 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 public road encroachment or pipeline crossing permits are required.
- f. All existing roads would be maintained and kept in good repair during all phases of operation.

2. Planned Access Road:

- a. Approximately 972 feet of access road trending south is planned from the proposed LC Tribal 5H-35-48, 8-35D-48 & 8H-36-48 access road. Proposed access continues from the proposed LC Tribal 5H-35-48, 8-35D-48 & 8H-36-48 access road an additional 3,186 feet to the existing Duchesne County maintained Avintaquin Road. The access road crosses entirely new disturbance on Ute Tribe surface (see Topographic Map B).
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

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.
  - i. No culverts and no low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
  - j. No gates or cattle guards are anticipated at this time.
  - k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
  - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
  - m. The operator would be responsible for all maintenance needs of the new access road.
3. Location of Existing Wells (see One-Mile Radius Map):
- a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i. water wells	none
ii. injection wells	none
iii. disposal wells	none
iv. drilling wells	none
v. temp shut-in wells	none
vi. producing wells	none
vii. abandoned wells	none

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

4. Location of Production Facilities

- a. Surface facilities would consist of a wellhead, separator, gas meter, combustor, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or ESP or gas lift unit, electrical or with a natural gas or diesel fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
- b. Most wells would be fitted with a pump jack or Roto-flex unit or ESP or gas lift to assist liquid production. The prime mover for pump jacks or Roto-flex units would be small (100 horsepower or less), electric motor or natural gas or diesel fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 25 ft pad and the prime mover would be a natural gas-fired internal 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 989 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 north to the proposed LC Tribal 5H-35-48, 8-35D-48 & 8H-36-48 pipeline corridor. The proposed pipeline continues from the proposed LC Tribal 5H-35-48, 8-35D-48 & 8H-36-48 pipeline trending east approximately 10,213 feet (1.9 miles) to the proposed LC Tribal 6-30D-47 pipeline corridor. 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.

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 Surface Use Plan  
 LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
 Duchesne County, UT

- g. The new segment of gas pipeline would be surface laid or buried within a 30 foot wide pipeline corridor adjacent to the proposed access road. Approval to bury pipelines would be obtained from the appropriate surface owner(s). See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Beetle Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.
- l. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

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

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

Bill Barrett Corporation  
 Surface Use Plan  
 LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
 Duchesne County, UT

<b>Water Right No. and Application or Change No.</b>	<b>Applicant</b>	<b>Allocation</b>	<b>Date</b>	<b>Point of Diversion</b>	<b>Source</b>
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River
43-2505, Appln t37379	McKinnon Ranch Properties, LC	1.3 cfs	4/28/2011	Pumped from Sec, 17, T4SR6W	Water Canyon Lake
43-12415, Change A17215a	Peatross Ranch, LLC	1.89 cfs	09/2011	Dugout Pond	Strawberry River

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

6. Source of Construction Material:

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

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve pit 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.

Bill Barrett Corporation  
 Surface Use Plan  
 LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
 Duchesne County, UT

- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley
7. Western Water Solutions – Sand Pass Ranch, Sections 9 and 10, T4S-R1W, permit #WD-01-2011

- 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 CO<sub>2</sub> 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.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
  - k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
  - l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.
  - m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.
8. Ancillary Facilities:
- a. Garbage containers and portable toilets would be located on the well pad.
  - b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.
  - c. A surface powerline corridor is not proposed with this application but may be applied for in the future.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 368 feet x 255 feet with an inboard reserve pit size of 250 feet x 55 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.
- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan would be submitted, if requested, within 90 days of location construction to the surface managing agency.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.

11. Surface and Mineral Ownership:

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

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 12-077 (U-12-MQ-0294i) dated April 20, 2012.

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

- 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		3.151	acres
Access	972 feet	0.652	acres
Pipeline	989 feet	0.663	acres
	<b>Total</b>	<b>4.466</b>	<b>acres</b>

Bill Barrett Corporation  
Surface Use Plan  
LC Tribal 13H-35-48, 16-35D-48 & 16H-36-48 Well Pad  
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

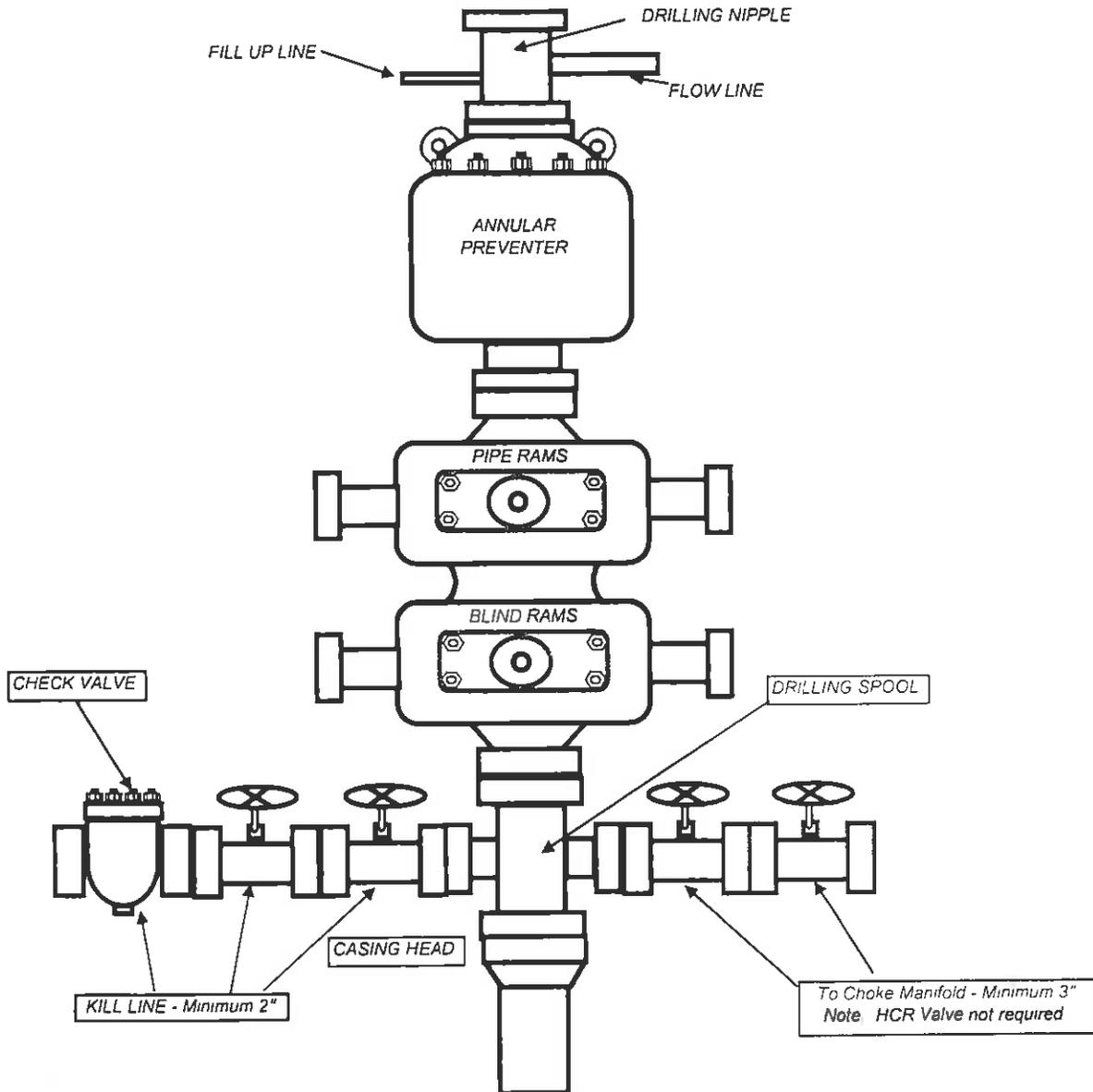
I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made 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	<u>6<sup>th</sup> day of November, 2012</u>
Name:	Venessa Langmacher
Position Title:	Senior Permit Analyst
Address:	1099 18 <sup>th</sup> Street, Suite 2300, Denver, CO 80202
Telephone:	303-312-8172
E-mail:	vlangmacher@billbarrettcorp.com
Field Representative	Kary Eldredge / Bill Barrett Corporation
Address:	1820 W. Highway 40, Roosevelt, UT 84066
Telephone:	435-725-3515 (office); 435-724-6789 (mobile)
E-mail:	keldredge@billbarrettcorp.com

  
\_\_\_\_\_  
Venessa Langmacher, Senior Permit Analyst

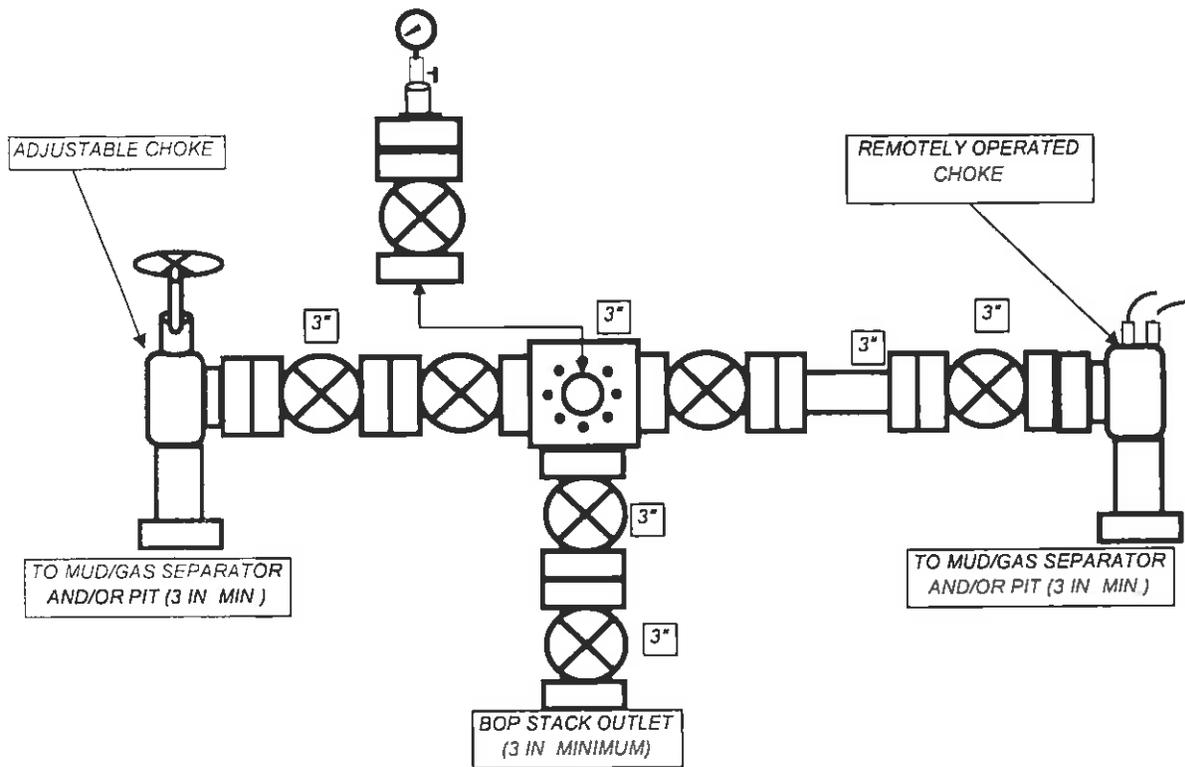
# BILL BARRETT CORPORATION

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



# BILL BARRETT CORPORATION

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





November 6, 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 Tribal #16H-36-48  
Section 36, T4S-R8W, U.S.B.&M.  
Duchesne County, Utah**

**Surface Hole Location: 479' FSL & 730' FEL, SESE, 35-T4S-R8W, USB&M  
Bottom Hole Location: 810' FSL & 810' FEL, SESE, 36-T4S-R8W, 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 36 is composed only of Tribal minerals.
- Tribal Exploration and Development Agreement #14-20-H62-5500, which includes portions of the subject Section 36 and other lands, allows for the drilling of the #16H-36-48 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 Tribal #16H-36-48 will be perforated no less than 660 feet from the Section 36 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:** November 06, 2012

# BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

LC TRIBAL #13H-35-48, #16-35D-48 & #16H-36-48

SECTION 35, T4S, R8W, U.S.B.&M.

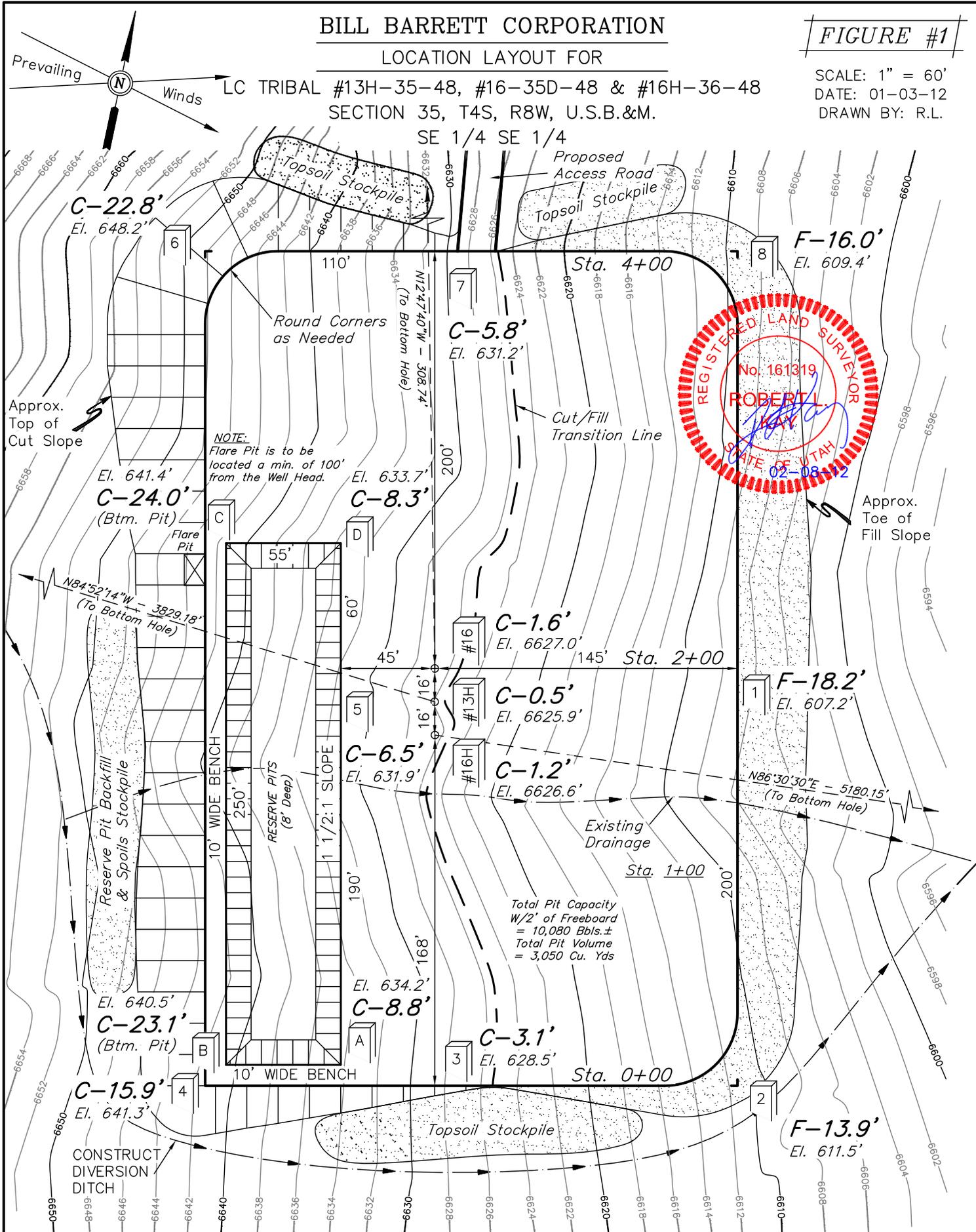
SE 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'

DATE: 01-03-12

DRAWN BY: R.L.



Elev. Ungraded Ground At #16-35D-48 Loc. Stake = 6627.0'  
FINISHED GRADE ELEV. AT #16-35D-48 LOC. STAKE = 6625.4'

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

**BILL BARRETT CORPORATION**

**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR**

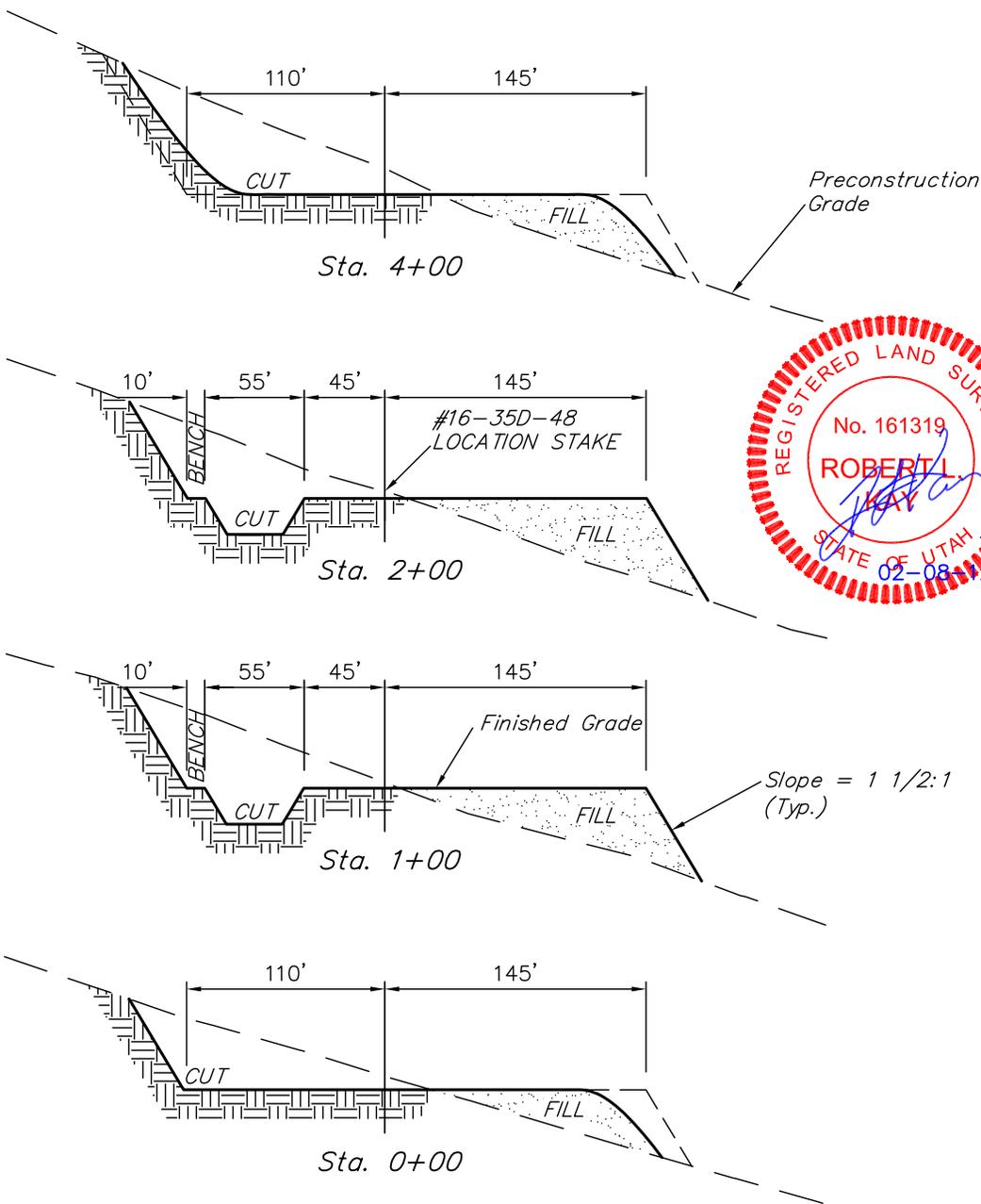
LC TRIBAL #13H-35-48, #16-35D-48 & #16H-36-48

SECTION 35, T4S, R8W, U.S.B.&M.

SE 1/4 SE 1/4

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

DATE: 01-03-12  
DRAWN BY: R.L.



**NOTE:**

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 3.151 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.652 ACRES
PIPELINE DISTURBANCE	= ± 0.663 ACRES
<b>TOTAL</b>	<b>= ± 4.466 ACRES</b>

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	= 5,370 Cu. Yds.
Remaining Location	= 24,890 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 30,260 CU.YDS.</b>
<b>FILL</b>	<b>= 23,360 CU.YDS.</b>

EXCESS MATERIAL	= 6,900 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 6,900 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# BILL BARRETT CORPORATION

## INTERIM RECLAMATION PLAN FOR

LC TRIBAL #13H-35-48, #16-35D-48 & #16H-36-48

SECTION 35, T4S, R8W, U.S.B.&M.

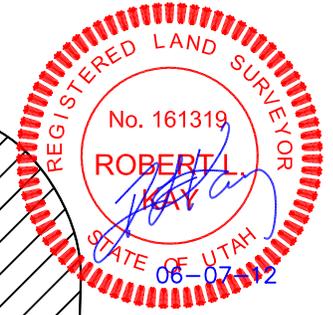
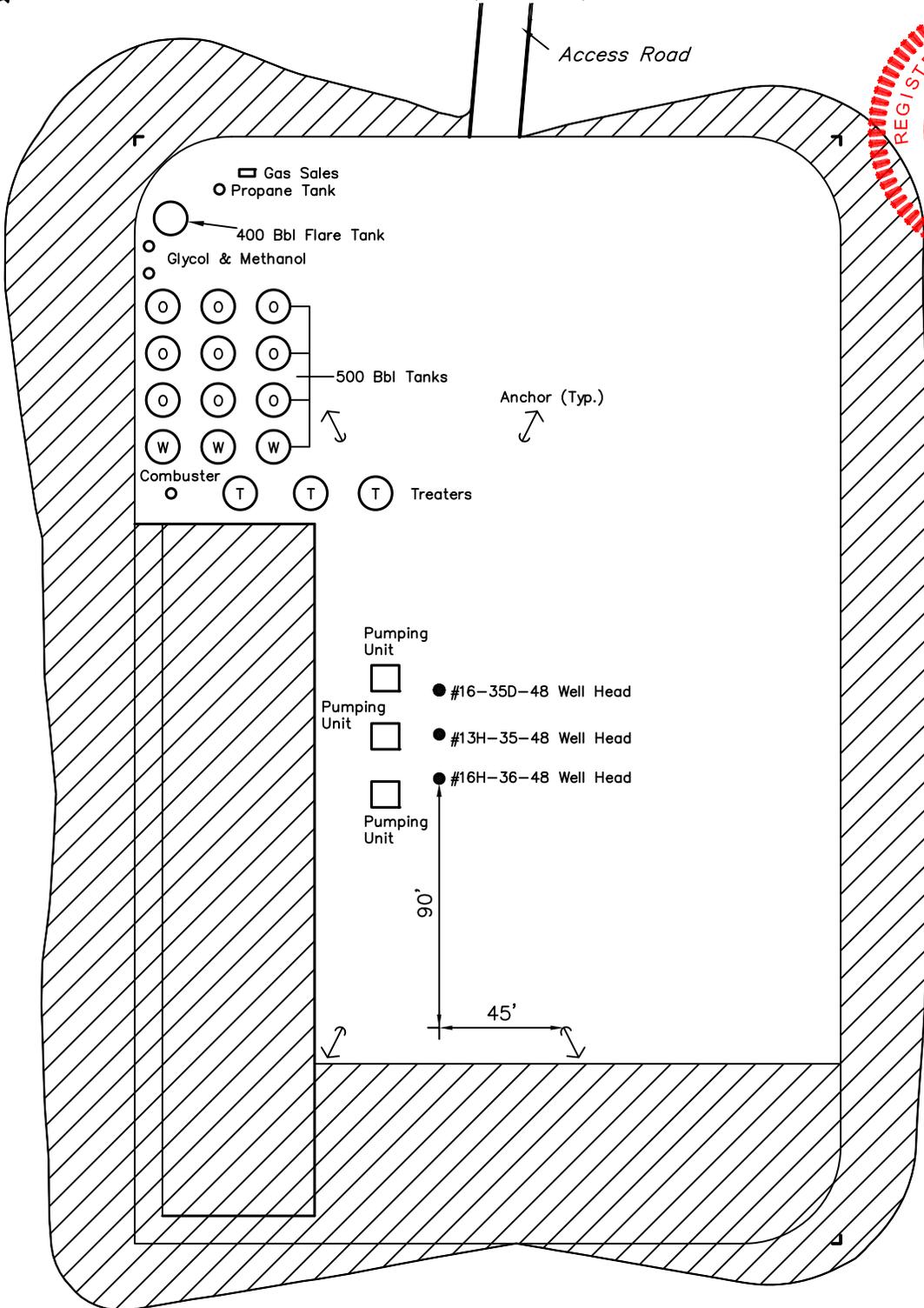
SE 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'

DATE: 06-05-12

DRAWN BY: S.F.

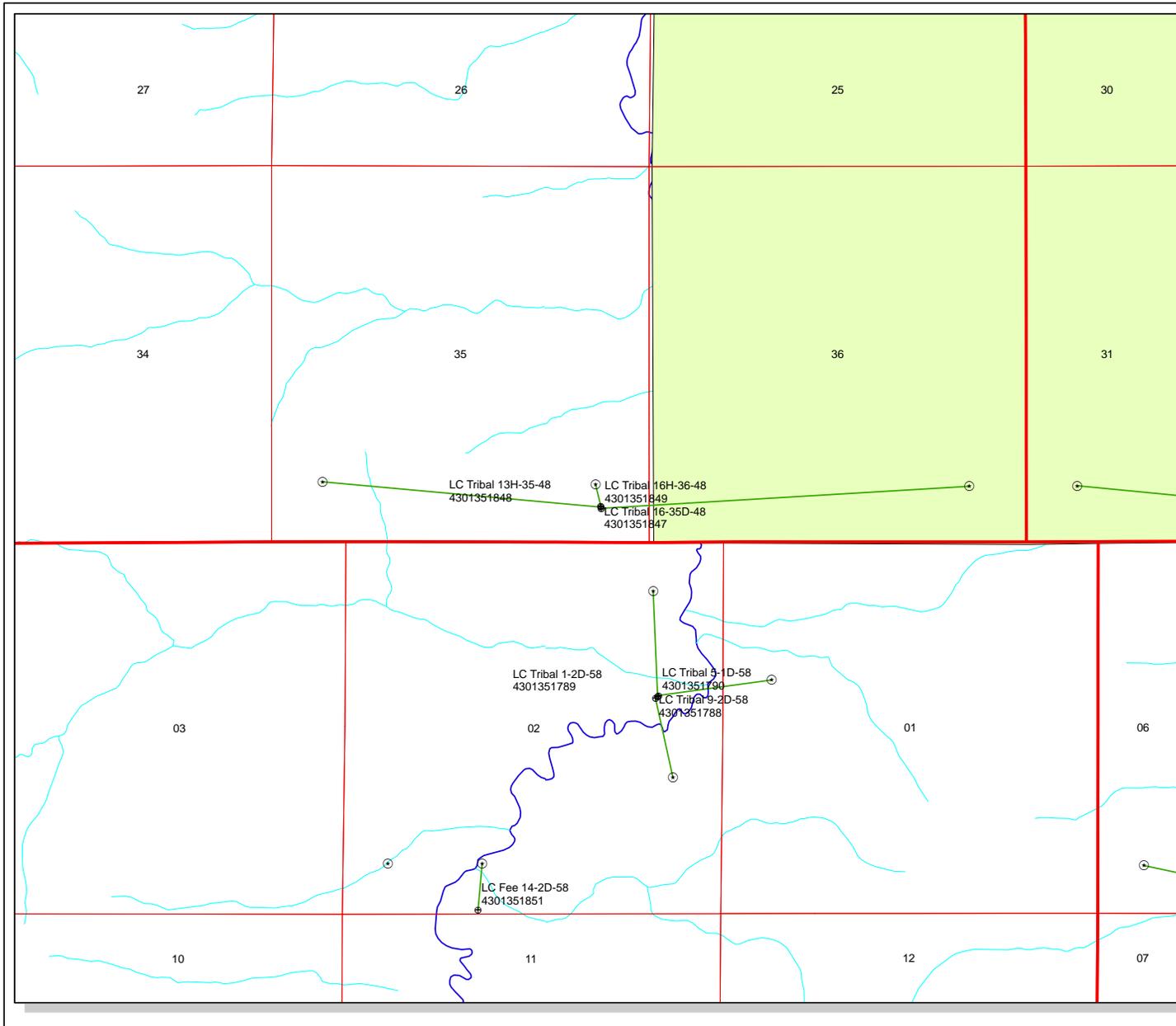


INTERIM RECLAMATION

APPROXIMATE ACREAGES  
UN-RECLAIMED = ± 1.658 ACRES

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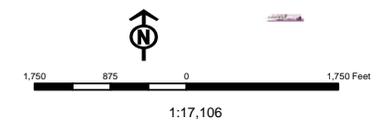
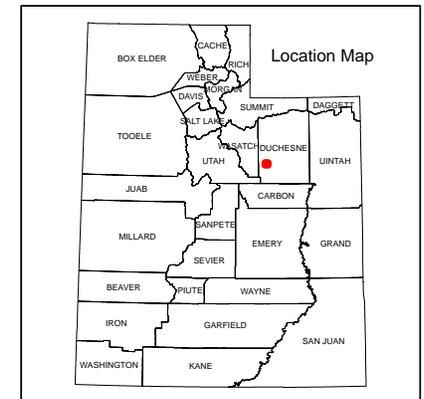
RECEIVED: November 06, 2012



**API Number: 4301351849**  
**Well Name: LC Tribal 16H-36-48**  
**Township T04.0S Range R08.0W Section 35**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

- |               |                                    |
|---------------|------------------------------------|
| <b>Units</b>  | <b>Wells Query</b>                 |
| <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                 |
| PI 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&GasDls  |
| STORAGE       |                                    |
| TERMINATED    |                                    |



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/6/2012

API NO. ASSIGNED: 43013518490000

WELL NAME: LC Tribal 16H-36-48

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SESE 35 040S 080W

Permit Tech Review: 

SURFACE: 0479 FSL 0730 FEL

Engineering Review: 

BOTTOM: 0810 FSL 0810 FEL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.08374

LONGITUDE: -110.74790

UTM SURF EASTINGS: 521493.00

NORTHINGS: 4437082.00

FIELD NAME: WILDCAT

LEASE TYPE: 2 - Indian

LEASE NUMBER: 2OG0005500

PROPOSED PRODUCING FORMATION(S): UTELAND BUTTE

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 139-87
- Effective Date: 12/6/2011
- Siting: 4 Prod LGRRV-WSTC Wells
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll  
4 - Federal Approval - dmason  
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 16H-36-48

**API Well Number:** 43013518490000

**Lease Number:** 2OG0005500

**Surface Owner:** INDIAN

**Approval Date:** 11/21/2012

### 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.

### Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

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

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

**Reporting Requirements:**

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

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

**Approved By:**



For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  <b>5.LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005500
<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>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Uintah
<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 Tribal 16H-36-48
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43013518490000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0479 FSL 0730 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 35 Township: 04.0S Range: 08.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
		<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: 11/21/2014	<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 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
	<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 year 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 43013518490000**

API: 43013518490000

Well Name: LC Tribal 16H-36-48

Location: 0479 FSL 0730 FEL QTR SESE SEC 35 TWNP 040S RNG 080W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 11/21/2012

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	<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>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005500
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0479 FSL 0730 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 35 Township: 04.0S Range: 08.0W Meridian: U	<b>8. WELL NAME and NUMBER:</b> LC Tribal 16H-36-48
<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. API NUMBER:</b> 43013518490000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT	<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: 11/21/2015	<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 type="checkbox"/> CHANGE WELL NAME
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	<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.

<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> 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 43013518490000**

API: 43013518490000

Well Name: LC Tribal 16H-36-48

Location: 0479 FSL 0730 FEL QTR SESE SEC 35 TWNP 040S RNG 080W MER U

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

Signature: Christina Hirtler

Date: 9/11/2014

Title: Administrative Assistant Representing: BILL BARRETT CORP



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

October 23, 2014

Venessa Langmacher  
Bill Barrett Corporation  
1099 18<sup>th</sup> Street, Suite 2300  
Denver, CO 80202

RE: APD Rescinded – LC Tribal 16H-36-48, API #43-013-51849  
SESE Section 35, Township 4 South, Range 8 West, Duchesne County, Utah

Dear Ms. Langmacher:

As requested, the Division of Oil, Gas and Mining “the Division” has rescinded the above referenced APD. No drilling activity at the referenced location has been reported to the Division. Therefore, approval to drill the well is hereby rescinded, effective October 23, 2014.

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 the well location, it is imperative that you notify the Division immediately.

Sincerely,

Lisha Cordova  
Environmental Scientist

LC

cc: Well File  
Brad Hill, Permitting Manager  
Bureau of Land Management, Vernal





Lisha Cordova <lishacordova@utah.gov>

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**Fwd: 4301351849: Rescind Please**

1 message

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**Bradley Hill** <bradhill@utah.gov>

Thu, Oct 23, 2014 at 8:25 AM

To: "Cordova, Lisha" <lishacordova@utah.gov>

Would you take care of this please

Brad Hill P.G.  
O & G Permitting Manager/Petroleum Geologist  
State of Utah  
Division of Oil, Gas, & Mining  
Phone: (801)538-5315  
Fax: (801)359-3940  
email: bradhill@utah.gov

——— Forwarded message ———

From: **Venessa Langmacher** <vlangmacher@billbarrettcorp.com>  
Date: Wed, Oct 22, 2014 at 8:52 AM  
Subject: 4301351849: Rescind Please  
To: "bradhill@utah.gov" <bradhill@utah.gov>

Good Morning Brad,

Could you please rescind the permit for the LC Tribal 16H-36-48; API 4301351849? BBC has no plans of drilling this location and the BLM permit was rescinded as well.

Thanks,

Venessa Langmacher

Senior Permit Analyst

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BILL BARRETT CORPORATION

1099 18th Street | Suite 2300

Denver, CO 80202

D 303.312.8172 | F 303.291.0420

vlangmacher@billbarrettcorp.com