

**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 Fee 13H-21-47							
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') Uintay 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		164 FSL 839 FEL		SESE		21		4.0 S		7.0 W		U	
Top of Uppermost Producing Zone		660 FSL 1839 FEL		SWSE		21		4.0 S		7.0 W		U	
At Total Depth		810 FSL 700 FWL		SWSW		21		4.0 S		7.0 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) 6944			26. PROPOSED DEPTH MD: 8114 TVD: 4767							
27. ELEVATION - GROUND LEVEL 6283			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 - 4332	26.0	P-110 LT&C	9.2	Unknown		200	3.14	14.8		
							Unknown		110	1.42	13.5		
L1	6.125	4.5	3782 - 8114	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 10/18/2012				EMAIL vlangmacher@billbarrettcorp.com					
API NUMBER ASSIGNED 43013517940000				APPROVAL				 Permit Manager					

**DRILLING PLAN**

BILL BARRETT CORPORATION

LC Fee 13H-21-47

SHL: SE SE, 164' FSL and 839' FEL, Section 21, T4S-R7W

BHL: SW SW, 810' FSL and 700' FWL, Section 21, 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	567'	567'
Surface casing	800'	800'
Mahogany	1,097'	1,097'
TGR3	2,572'	2,572'
Douglas Creek	3,312'	3,312'
3 PT Marker	3,757'	3,757'
Black Shale Facies	4,248'	4,223'
Castle Peak	4,505'	4,402'
*Uteland Butte	5,003'	4,635'
TD	8,114'	4,767'

\*PROSPECTIVE PAY

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

**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	4,332'	7"	26.0 ppf	P-110	LT&C	New
6 1/8"	surface	8,114'	4 1/2" Liner with 4-1/2" Tieback for frac	11.6 ppf	P-110	LT&C	New

Drilling Plan  
LC Tribal 13H-21-47  
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 200 sx Tune Light cement with additives, mixed at 11.0 ppg (yield = 3.14 ft <sup>3</sup> /sx). TOC @ 300' Tail with approximately 110 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). TOC @ 2,882'
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' – 4,332'	8.9 – 9.2	26 - 36	NC	Fresh Water with sweeps
4,332' – 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 13H-21-47  
 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 2354 psi\* and maximum anticipated surface pressure equals approximately 1306 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**

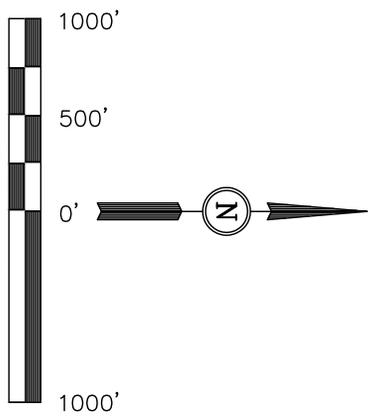
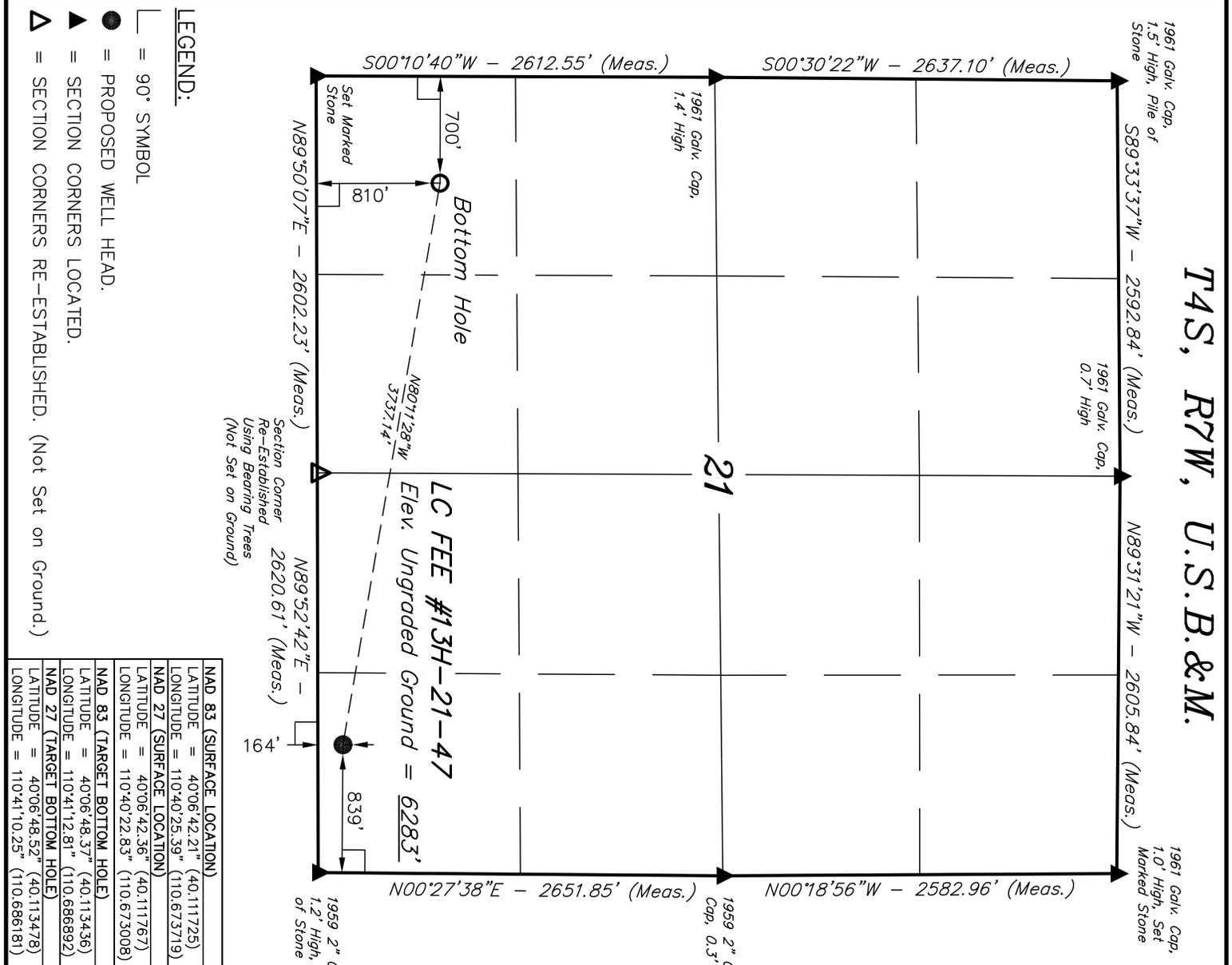
Well location, LC FEE #13H-21-47, located as shown in the SE 1/4 SE 1/4 of Section 21, T4S, R7W, U.S.B.&M., Duchesne County, Utah.

**BASIS OF ELEVATION**

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, RAW, 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.



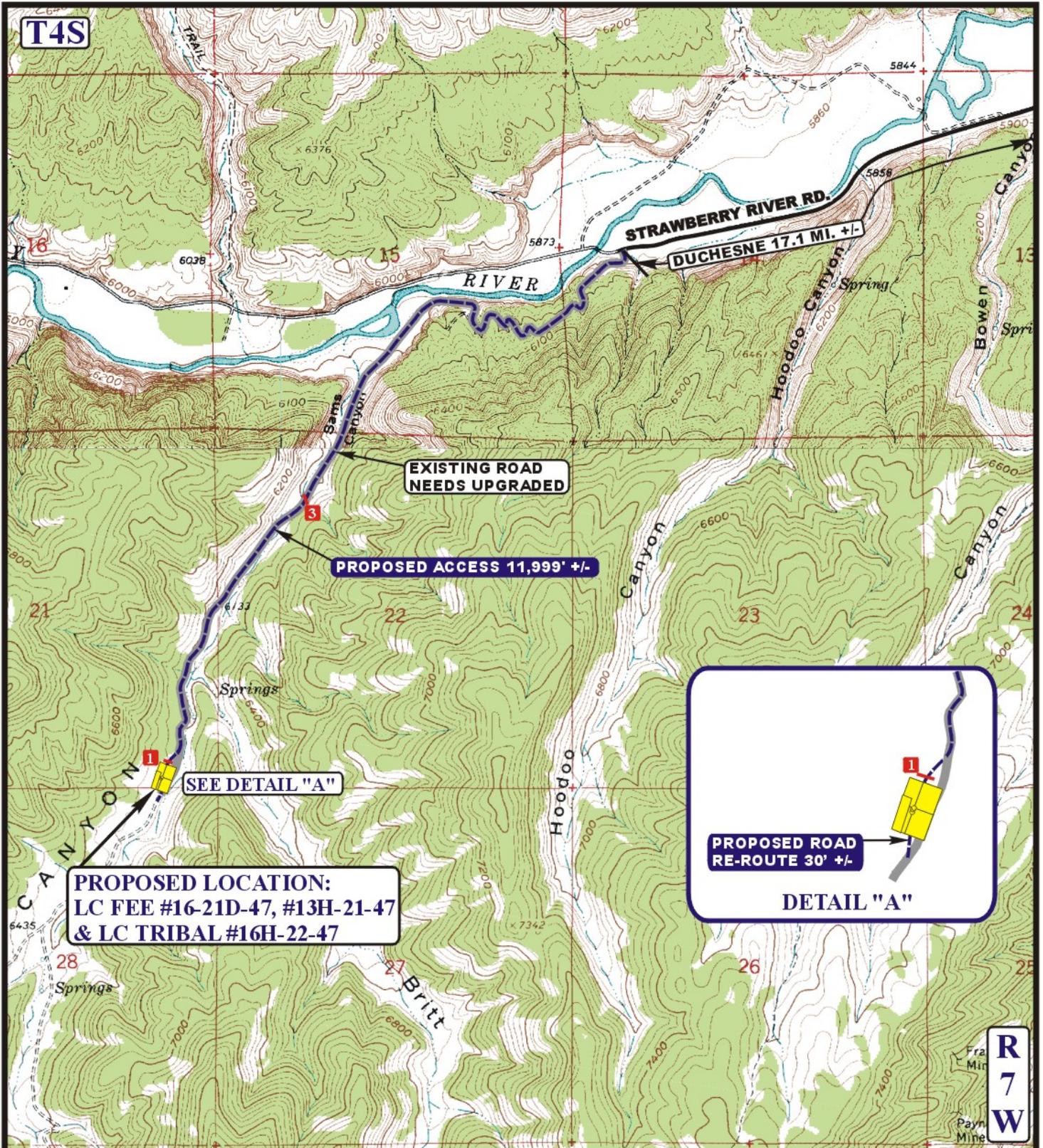
**CERTIFICATE**  
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.  
**Bill Barrett**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

- LEGEND:**
- = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - = SECTION CORNERS LOCATED.
  - △ = SECTION CORNERS RE-ESTABLISHED. (Not Set on Ground.)

<b>NAD 83 (SURFACE LOCATION)</b>	LATITUDE = 40°06'42.21" (40.111725)
	LONGITUDE = 110°40'25.39" (110.673719)
<b>NAD 27 (SURFACE LOCATION)</b>	LATITUDE = 40°06'42.36" (40.111767)
	LONGITUDE = 110°40'22.83" (110.673008)
<b>NAD 83 (TARGET BOTTOM HOLE)</b>	LATITUDE = 40°06'48.37" (40.113436)
	LONGITUDE = 110°41'12.81" (110.686892)
<b>NAD 27 (TARGET BOTTOM HOLE)</b>	LATITUDE = 40°06'48.52" (40.113478)
	LONGITUDE = 110°41'10.25" (110.686181)

<b>UTAH ENGINEERING &amp; LAND SURVEYING</b>	
85 SOUTH 200 EAST - VERNAL, UTAH 84078	
(435) 789-1017	
SCALE	1" = 1000'
PARTY	T.A. C.N. Z.L.
WEATHER	HOT
DATE SURVEYED:	08-31-11
DATE DRAWN:	10-07-11
REFERENCES	G.I.O. PLAT
FILE	BILL BARRETT CORPORATION





**LEGEND:**

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING ROAD NEEDS UPGRADED
- 1** 18" CMP REQUIRED
- 3** LOW WATER CROSSING REQUIRED

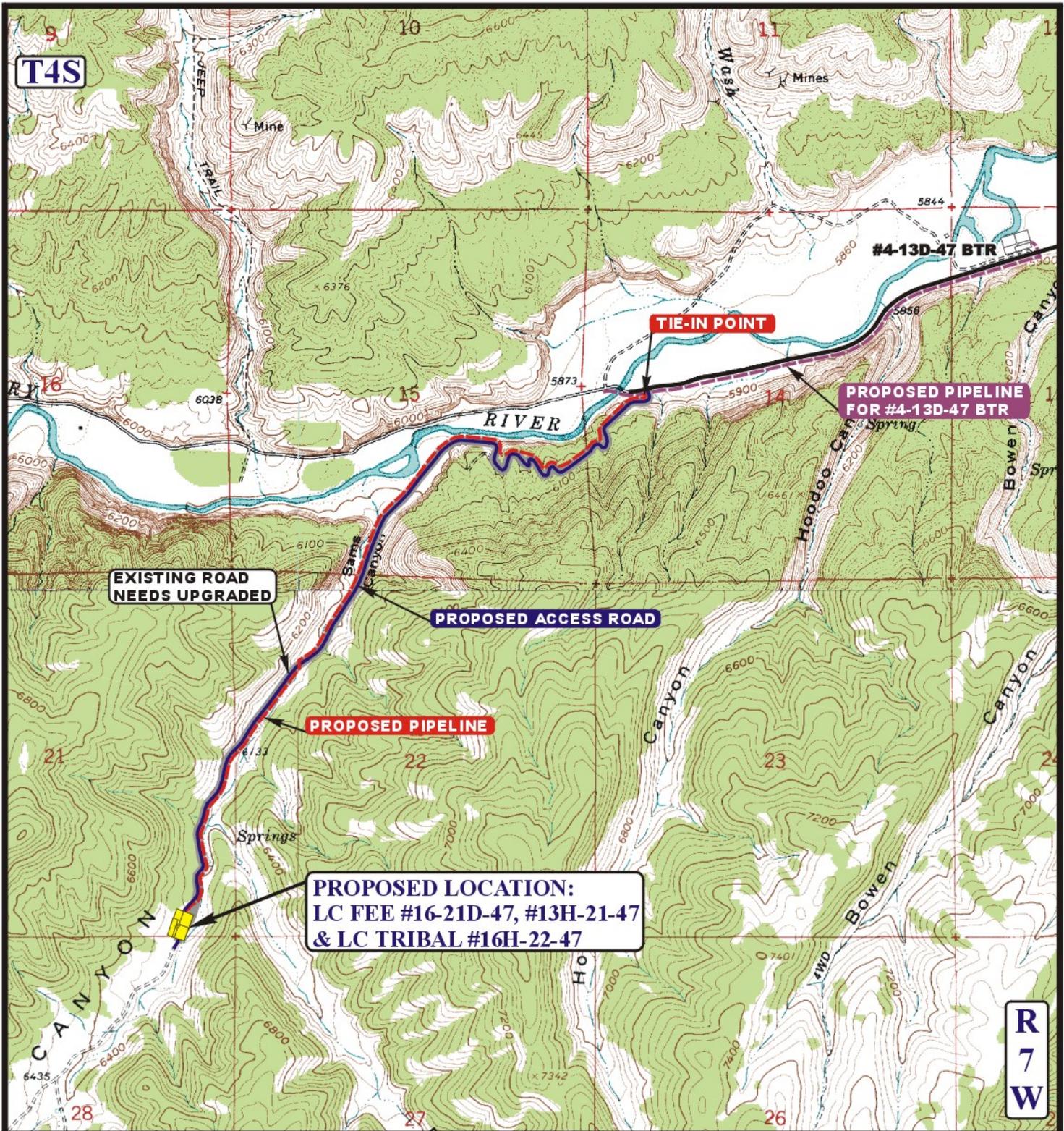
**BILL BARRETT CORPORATION**

LC FEE #16-21D-47, #13H-21-47  
& LC TRIBAL #16H-22-47  
SECTION 21, T4S, R7W, U.S.B.&M.  
SE 1/4 SE 1/4

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



<b>ACCESS ROAD MAP</b>	<b>09 14 11</b> MONTH DAY YEAR	<b>B TOPO</b>
SCALE: 1" = 2000'	DRAWN BY: C.I.	REVISED: 12-06-11



**APPROXIMATE TOTAL PIPELINE DISTANCE = 11,867' +/-**

**LEGEND:**

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

**BILL BARRETT CORPORATION**

LC FEE #16-21D-47, #13H-21-47  
 & LC TRIBAL #16H-22-47  
 SECTION 21, T4S, R7W, 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**

**09 14 11**  
 MONTH DAY YEAR

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





**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: 0.53  
Local North: True

**WELL DETAILS: 13H-21-47 LC Fee**

Ground Level: 6282.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	648825.57	2231296.46	40° 6' 42.361 N	110° 40' 22.829 W	

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
13H-21-47 LC Fee LP	4707.0	496.0	-1000.0	40° 6' 47.263 N	110° 40' 35.701 W	Point
13H-21-47 LC Fee PBHL	4767.0	623.5	-3684.2	40° 6' 48.521 N	110° 41' 10.252 W	Point

**SECTION DETAILS**

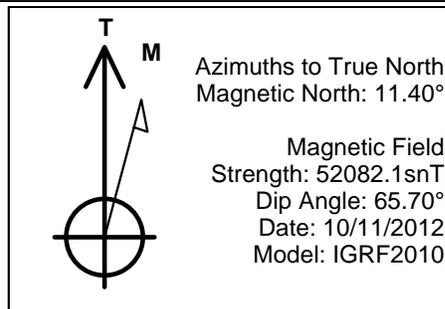
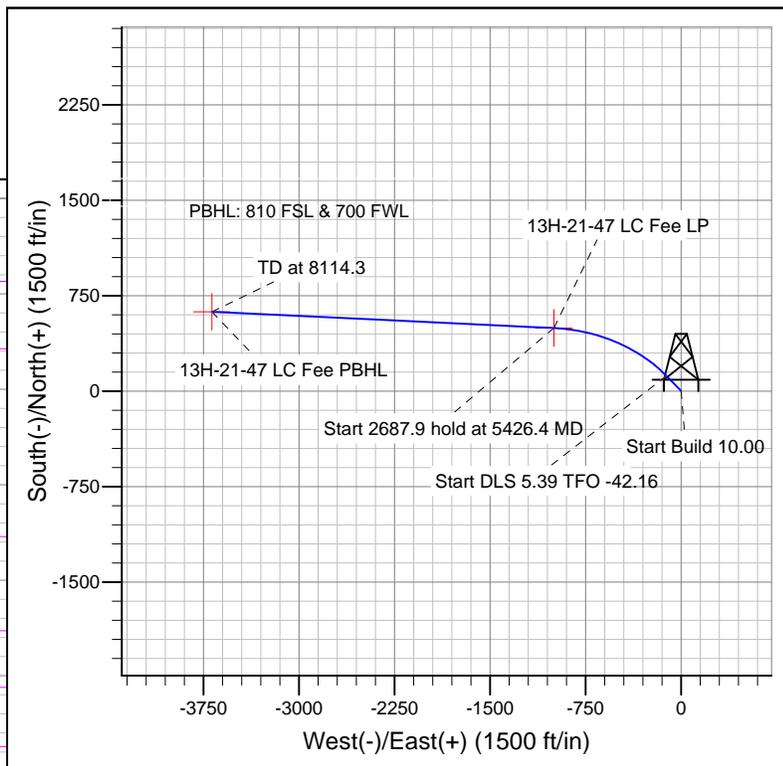
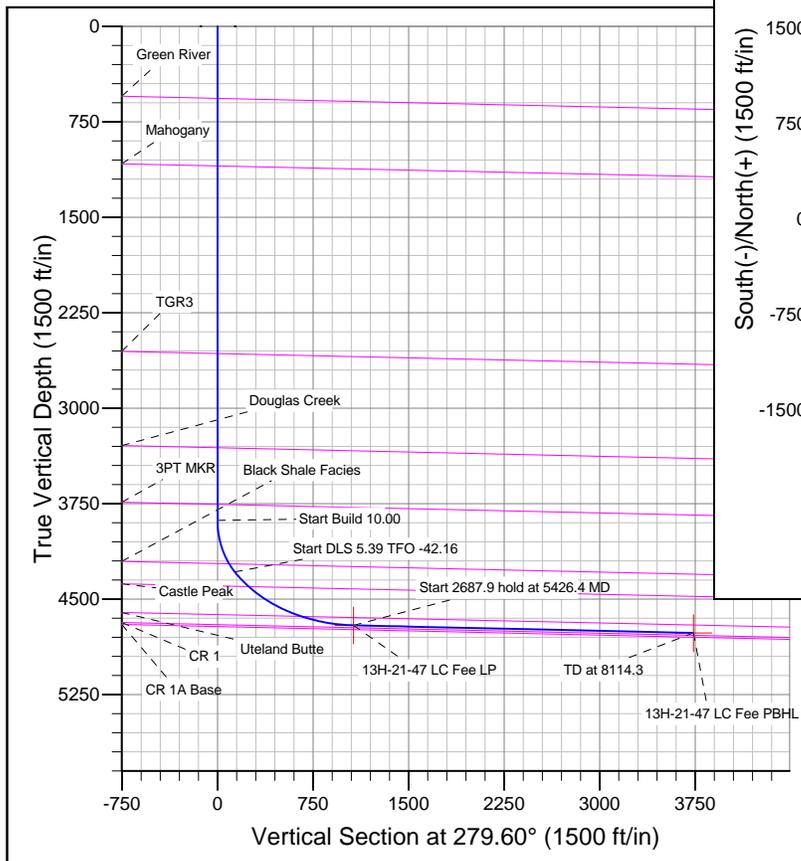
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	3882.3	0.00	0.00	3882.3	0.0	0.0	0.00	0.00	0.0	
3	4332.3	45.00	315.77	4287.4	120.2	-117.1	10.00	315.77	135.5	
4	5426.4	88.72	272.72	4707.0	496.0	-1000.0	5.39	-42.16	1068.7	13H-21-47 LC Fee LP
5	8114.3	88.72	272.72	4767.0	623.5	-3684.2	0.00	0.00	3736.6	13H-21-47 LC Fee PBHL

**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
		CR 1
		CR 1A Base
		Green River
567.0	567.0	Mahogany
1097.0	1097.0	TGR3
2572.0	2572.0	Douglas Creek
3312.0	3312.0	3PT MKR
3757.0	3757.0	Black Shale Facies
4223.8	4248.2	Castle Peak
4402.0	4505.1	Uteland Butte
4635.7	5003.1	

**CASING DETAILS**

No casing data is available



**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13H-21-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Site:</b>	13H-21-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	13H-21-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13H-21-47 LC Fee		
<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>	13H-21-47 LC Fee				
<b>Site Position:</b>		<b>Northing:</b>	648,825.58 ft	<b>Latitude:</b>	40° 6' 42.361 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,231,296.46 ft	<b>Longitude:</b>	110° 40' 22.829 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	0.53 °

<b>Well</b>	13H-21-47 LC Fee					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	648,825.57 ft	<b>Latitude:</b>	40° 6' 42.361 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,231,296.46 ft	<b>Longitude:</b>	110° 40' 22.829 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	6,282.0 ft

<b>Wellbore</b>	13H-21-47 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	10/11/2012	11.40	65.70	52,082

<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	279.60

<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	
3,882.3	0.00	0.00	3,882.3	0.0	0.0	0.00	0.00	0.00	0.00	
4,332.3	45.00	315.77	4,287.4	120.2	-117.1	10.00	10.00	0.00	315.77	
5,426.4	88.72	272.72	4,707.0	496.0	-1,000.0	5.39	4.00	-3.93	-42.16	13H-21-47 LC Fee LF
8,114.3	88.72	272.72	4,767.0	623.5	-3,684.2	0.00	0.00	0.00	0.00	13H-21-47 LC Fee PE

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13H-21-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Site:</b>	13H-21-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	13H-21-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13H-21-47 LC Fee		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
567.0	0.00	0.00	567.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Green River</b>									
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,097.0	0.00	0.00	1,097.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Mahogany</b>									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,572.0	0.00	0.00	2,572.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>TGR3</b>									
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,312.0	0.00	0.00	3,312.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>Douglas Creek</b>									
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,757.0	0.00	0.00	3,757.0	0.0	0.0	0.0	0.00	0.00	0.00
<b>3PT MKR</b>									
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,882.3	0.00	0.00	3,882.3	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	1.77	315.77	3,900.0	0.2	-0.2	0.2	10.00	10.00	0.00
4,000.0	11.77	315.77	3,999.2	8.6	-8.4	9.7	10.00	10.00	0.00
4,100.0	21.77	315.77	4,094.8	29.3	-28.5	33.0	10.00	10.00	0.00
4,200.0	31.77	315.77	4,184.0	61.5	-59.9	69.3	10.00	10.00	0.00

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13H-21-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Site:</b>	13H-21-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	13H-21-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13H-21-47 LC Fee		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
4,248.2	36.60	315.77	4,223.8	80.9	-78.8	91.2	10.00	10.00	0.00	
<b>Black Shale Facies</b>										
4,300.0	41.77	315.77	4,264.0	104.4	-101.6	117.6	10.00	10.00	0.00	
4,332.3	45.00	315.77	4,287.4	120.2	-117.1	135.5	10.00	10.00	0.00	
4,400.0	47.71	313.10	4,334.2	154.6	-152.1	175.7	4.91	4.00	-3.93	
4,500.0	51.70	309.17	4,398.8	204.7	-209.5	240.7	5.00	4.00	-3.93	
4,505.1	51.94	309.02	4,402.0	207.2	-212.6	244.2	5.23	4.66	-3.01	
<b>Castle Peak</b>										
4,600.0	55.70	305.24	4,458.0	253.4	-273.7	312.1	5.10	3.96	-3.98	
4,700.0	59.69	301.30	4,511.4	299.7	-344.3	389.5	5.20	4.00	-3.93	
4,800.0	63.69	297.37	4,558.8	342.8	-421.1	472.4	5.29	4.00	-3.93	
4,900.0	67.69	293.43	4,600.0	381.9	-503.4	560.0	5.37	4.00	-3.93	
5,000.0	71.68	289.50	4,634.7	416.2	-590.6	651.8	5.44	4.00	-3.93	
5,003.1	71.83	289.39	4,635.7	417.1	-593.4	654.7	5.58	4.64	-3.28	
<b>Uteland Butte</b>										
5,100.0	75.68	285.56	4,662.8	445.0	-682.1	746.8	5.50	3.98	-3.96	
5,200.0	79.68	281.63	4,684.1	468.0	-777.0	844.2	5.54	4.00	-3.93	
5,300.0	83.67	277.69	4,698.6	484.6	-874.5	943.1	5.58	4.00	-3.93	
5,400.0	87.67	273.76	4,706.2	494.5	-973.7	1,042.6	5.60	4.00	-3.93	
5,426.4	88.72	272.72	4,707.0	496.0	-1,000.0	1,068.7	5.61	4.00	-3.93	
<b>13H-21-47 LC Fee LP</b>										
5,500.0	88.72	272.72	4,708.6	499.5	-1,073.5	1,141.8	0.00	0.00	0.00	
5,600.0	88.72	272.72	4,710.9	504.2	-1,173.4	1,241.1	0.00	0.00	0.00	
5,700.0	88.72	272.72	4,713.1	509.0	-1,273.3	1,340.3	0.00	0.00	0.00	
5,800.0	88.72	272.72	4,715.3	513.7	-1,373.1	1,439.6	0.00	0.00	0.00	
5,900.0	88.72	272.72	4,717.6	518.5	-1,473.0	1,538.8	0.00	0.00	0.00	
6,000.0	88.72	272.72	4,719.8	523.2	-1,572.9	1,638.1	0.00	0.00	0.00	
6,100.0	88.72	272.72	4,722.0	528.0	-1,672.7	1,737.4	0.00	0.00	0.00	
6,200.0	88.72	272.72	4,724.3	532.7	-1,772.6	1,836.6	0.00	0.00	0.00	
6,300.0	88.72	272.72	4,726.5	537.4	-1,872.4	1,935.9	0.00	0.00	0.00	
6,400.0	88.72	272.72	4,728.7	542.2	-1,972.3	2,035.1	0.00	0.00	0.00	
6,500.0	88.72	272.72	4,731.0	546.9	-2,072.2	2,134.4	0.00	0.00	0.00	
6,600.0	88.72	272.72	4,733.2	551.7	-2,172.0	2,233.6	0.00	0.00	0.00	
6,700.0	88.72	272.72	4,735.4	556.4	-2,271.9	2,332.9	0.00	0.00	0.00	
6,800.0	88.72	272.72	4,737.7	561.2	-2,371.7	2,432.1	0.00	0.00	0.00	
6,900.0	88.72	272.72	4,739.9	565.9	-2,471.6	2,531.4	0.00	0.00	0.00	
7,000.0	88.72	272.72	4,742.1	570.6	-2,571.5	2,630.6	0.00	0.00	0.00	
7,100.0	88.72	272.72	4,744.4	575.4	-2,671.3	2,729.9	0.00	0.00	0.00	
7,200.0	88.72	272.72	4,746.6	580.1	-2,771.2	2,829.1	0.00	0.00	0.00	
7,300.0	88.72	272.72	4,748.8	584.9	-2,871.1	2,928.4	0.00	0.00	0.00	
7,400.0	88.72	272.72	4,751.1	589.6	-2,970.9	3,027.7	0.00	0.00	0.00	
7,500.0	88.72	272.72	4,753.3	594.4	-3,070.8	3,126.9	0.00	0.00	0.00	
7,600.0	88.72	272.72	4,755.5	599.1	-3,170.6	3,226.2	0.00	0.00	0.00	
7,700.0	88.72	272.72	4,757.7	603.9	-3,270.5	3,325.4	0.00	0.00	0.00	
7,800.0	88.72	272.72	4,760.0	608.6	-3,370.4	3,424.7	0.00	0.00	0.00	
7,900.0	88.72	272.72	4,762.2	613.3	-3,470.2	3,523.9	0.00	0.00	0.00	
8,000.0	88.72	272.72	4,764.4	618.1	-3,570.1	3,623.2	0.00	0.00	0.00	
8,100.0	88.72	272.72	4,766.7	622.8	-3,670.0	3,722.4	0.00	0.00	0.00	
8,114.3	88.72	272.72	4,767.0	623.5	-3,684.2	3,736.6	0.00	0.00	0.00	
<b>13H-21-47 LC Fee PBHL</b>										

**Bill Barrett Corp**

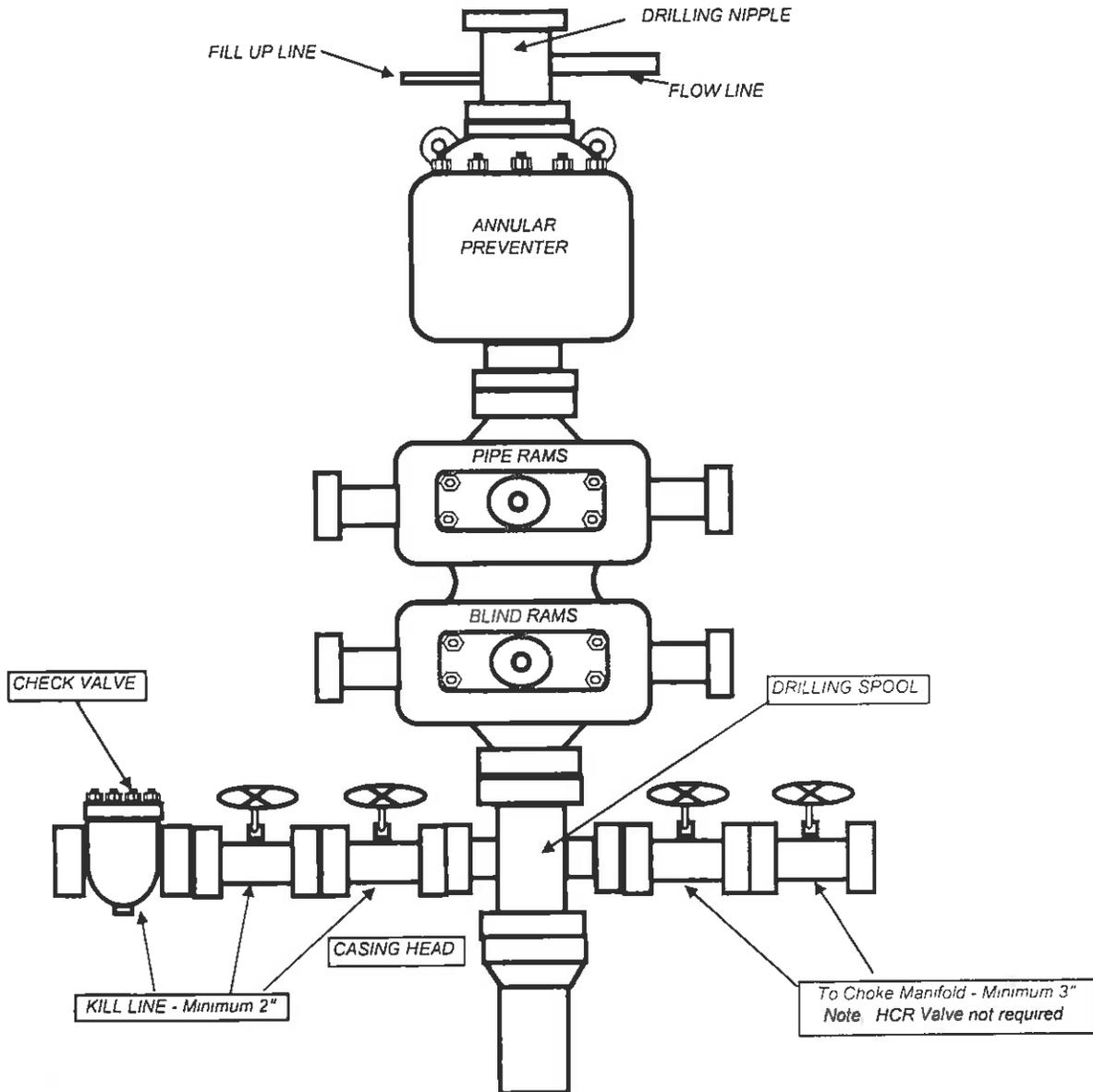
## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Well 13H-21-47 LC Fee
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Project:</b>	DUCHESNE COUNTY, UT (NAD 27)	<b>MD Reference:</b>	KB @ 6297.0ft (Original Well Elev)
<b>Site:</b>	13H-21-47 LC Fee	<b>North Reference:</b>	True
<b>Well:</b>	13H-21-47 LC Fee	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	13H-21-47 LC Fee		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
567.0	567.0	Green River		1.28	272.72	
1,097.0	1,097.0	Mahogany		1.28	272.72	
2,572.0	2,572.0	TGR3		1.28	272.72	
3,312.0	3,312.0	Douglas Creek		1.28	272.72	
3,757.0	3,757.0	3PT MKR		1.28	272.72	
4,248.2	4,222.0	Black Shale Facies		1.28	272.72	
4,505.1	4,397.0	Castle Peak		1.28	272.72	
5,003.1	4,622.0	Uteland Butte		1.28	272.72	
	4,702.0	CR 1		1.28	272.72	
	4,717.0	CR 1A Base		1.28	272.72	

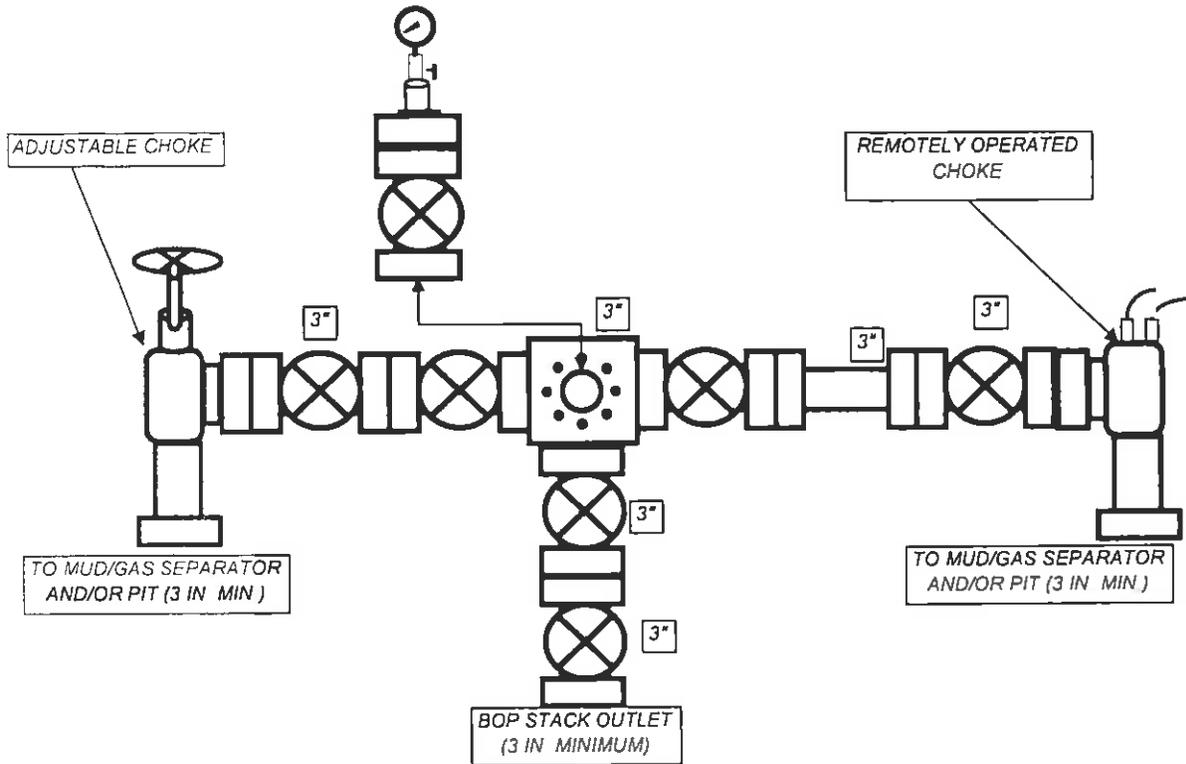
# BILL BARRETT CORPORATION

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



# BILL BARRETT CORPORATION

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





October 18, 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 #13H-21-47  
Section 21, T4S-R7W, U.S.B.&M.  
Duchesne County, Utah**

**Surface Hole Location: 164' FSL & 839' FEL, SESE, 21-T4S-R7W, USB&M  
Bottom Hole Location: 810' FSL & 700' FWL, SWSW, 21-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 21 is composed partially of Fee and Tribal minerals.
- Tribal Exploration and Development Agreement #14-20-H62-5500, which includes portions of the subject Section 21 and other lands, allows for the drilling of the #13H-21-47 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 #13H-21-47 will be perforated no less than 660 feet from the Section 21 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:** October 18, 2012

# BILL BARRETT CORPORATION

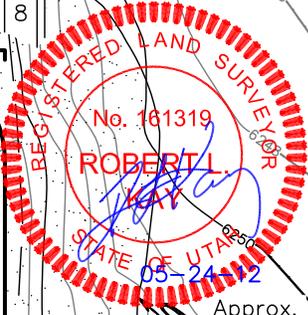
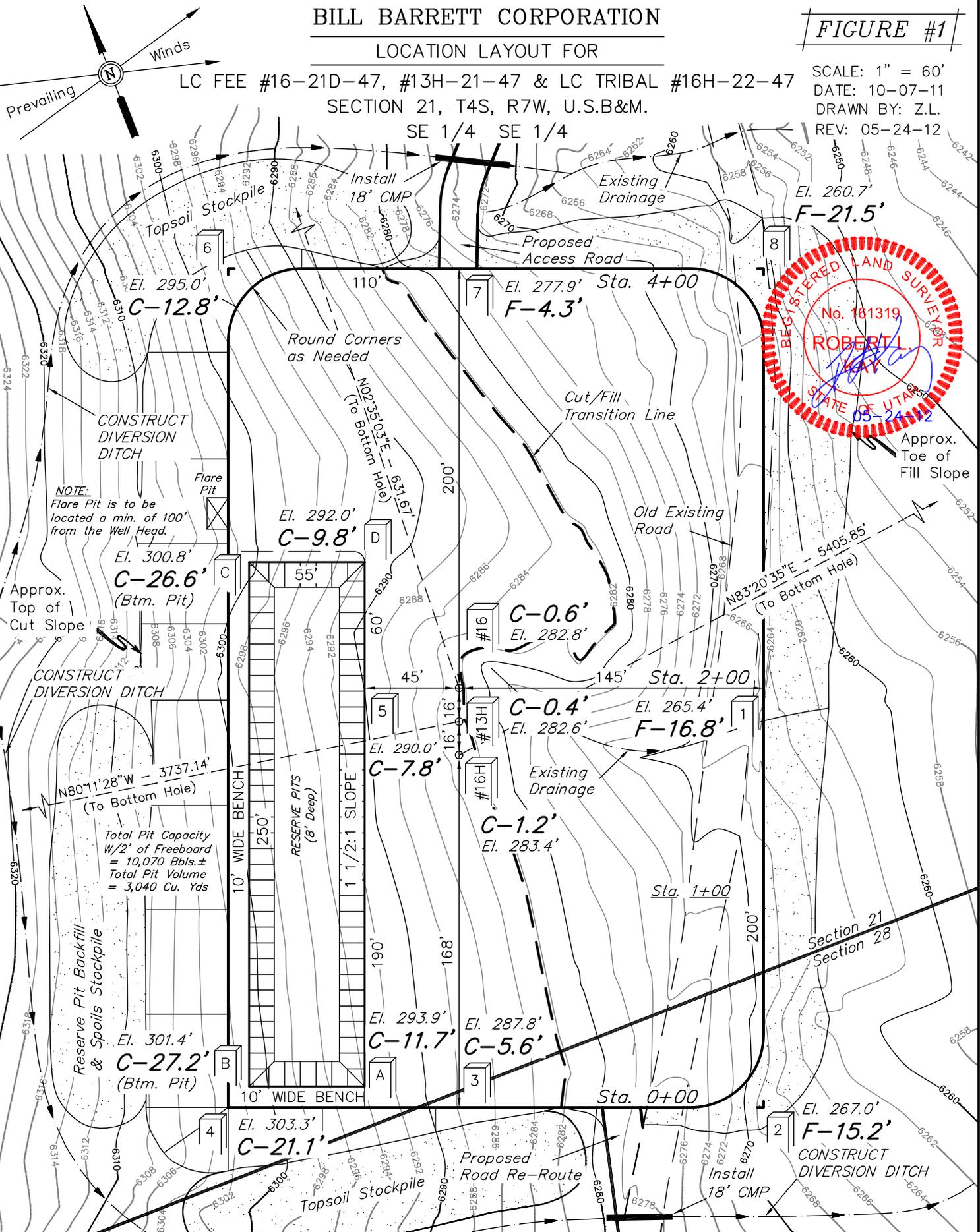
## LOCATION LAYOUT FOR

LC FEE #16-21D-47, #13H-21-47 & LC TRIBAL #16H-22-47  
SECTION 21, T4S, R7W, U.S.B&M.

SE 1/4 SE 1/4

FIGURE #1

SCALE: 1" = 60'  
DATE: 10-07-11  
DRAWN BY: Z.L.  
REV: 05-24-12



Elev. Ungraded Ground At #16-21D-47 Loc. Stake = **6282.8'**, UINTEAH ENGINEERING & LAND SURVEYING  
 FINISHED GRADE ELEV. AT #16-21D-47 LOC. STAKE = **6282.2'** 85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

RECEIVED: October 18, 2012

**BILL BARRETT CORPORATION**

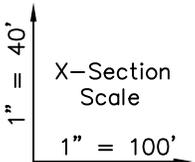
**FIGURE #2**

**TYPICAL CROSS SECTIONS FOR**

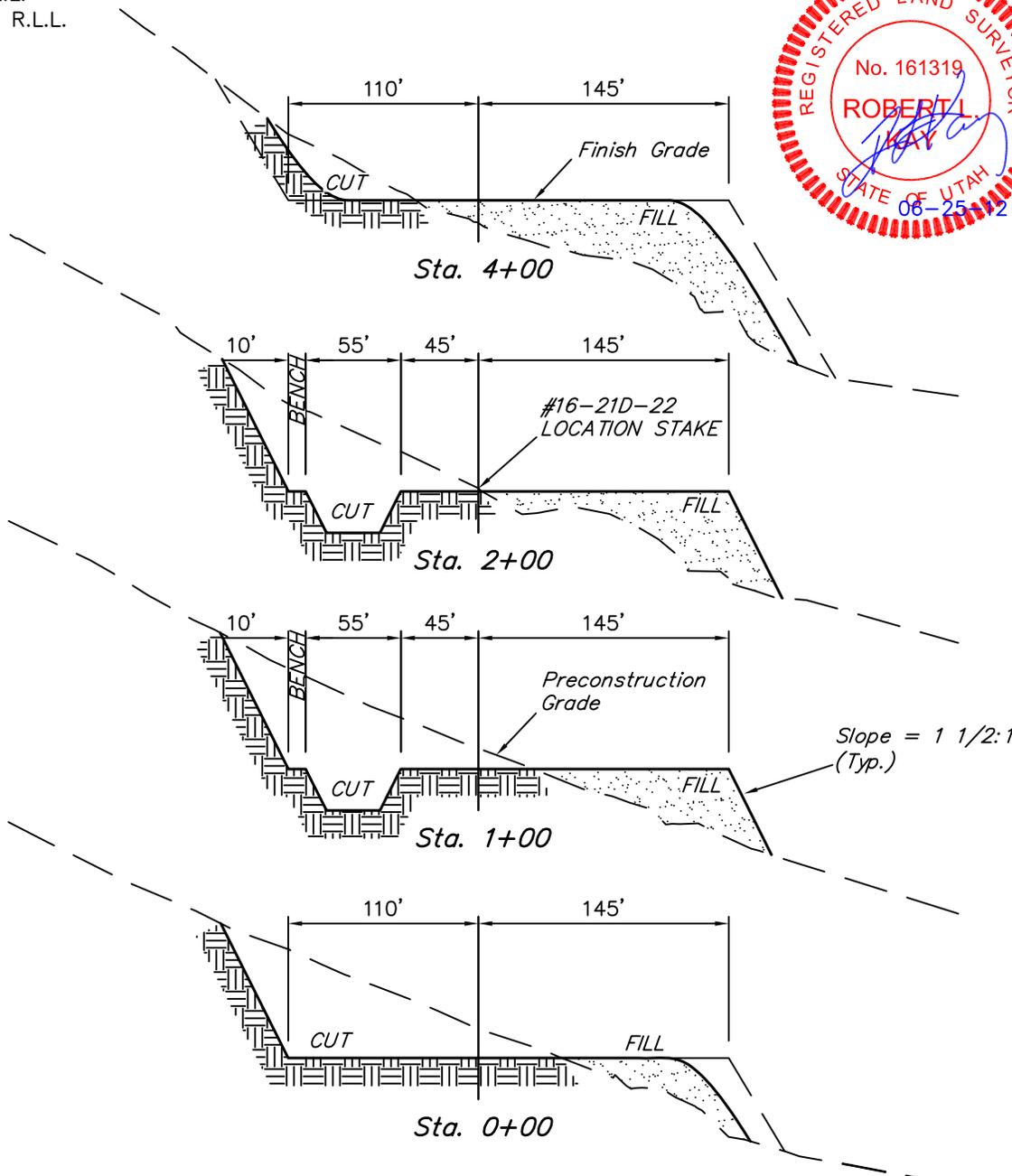
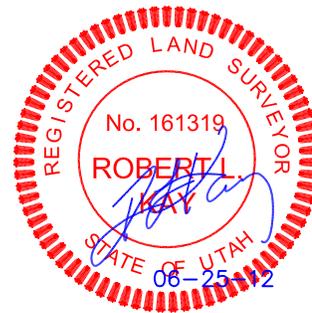
LC FEE #16-21D-47, #13H-21-47 & LC TRIBAL #16H-22-47

SECTION 21, T4S, R7W, U.S.B&M.

SE 1/4 SE 1/4



DATE: 10-07-11  
DRAWN BY: Z.L.  
REV: 06-25-12 R.L.L.



**NOTE:**

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

**APPROXIMATE ACREAGES**

WELL SITE DISTURBANCE	= ± 3.151 ACRES
ACCESS ROAD DISTURBANCE	= ± 8.247 ACRES
PIPELINE DISTURBANCE	= ± 8.190 ACRES
<b>TOTAL</b>	<b>= ± 19.588 ACRES</b>

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

**APPROXIMATE YARDAGES**

(12") Topsoil Stripping	= 5,520 Cu. Yds.
Remaining Location	= 24,380 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 29,900 CU.YDS.</b>
<b>FILL</b>	<b>= 22,860 CU.YDS.</b>

EXCESS MATERIAL	= 7,040 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,040 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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

# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

LC FEE #16-21D-47, #13H-21-47 & LC TRIBAL #16H-22-47

SECTION 21, T4S, R7W, U.S.B&M.

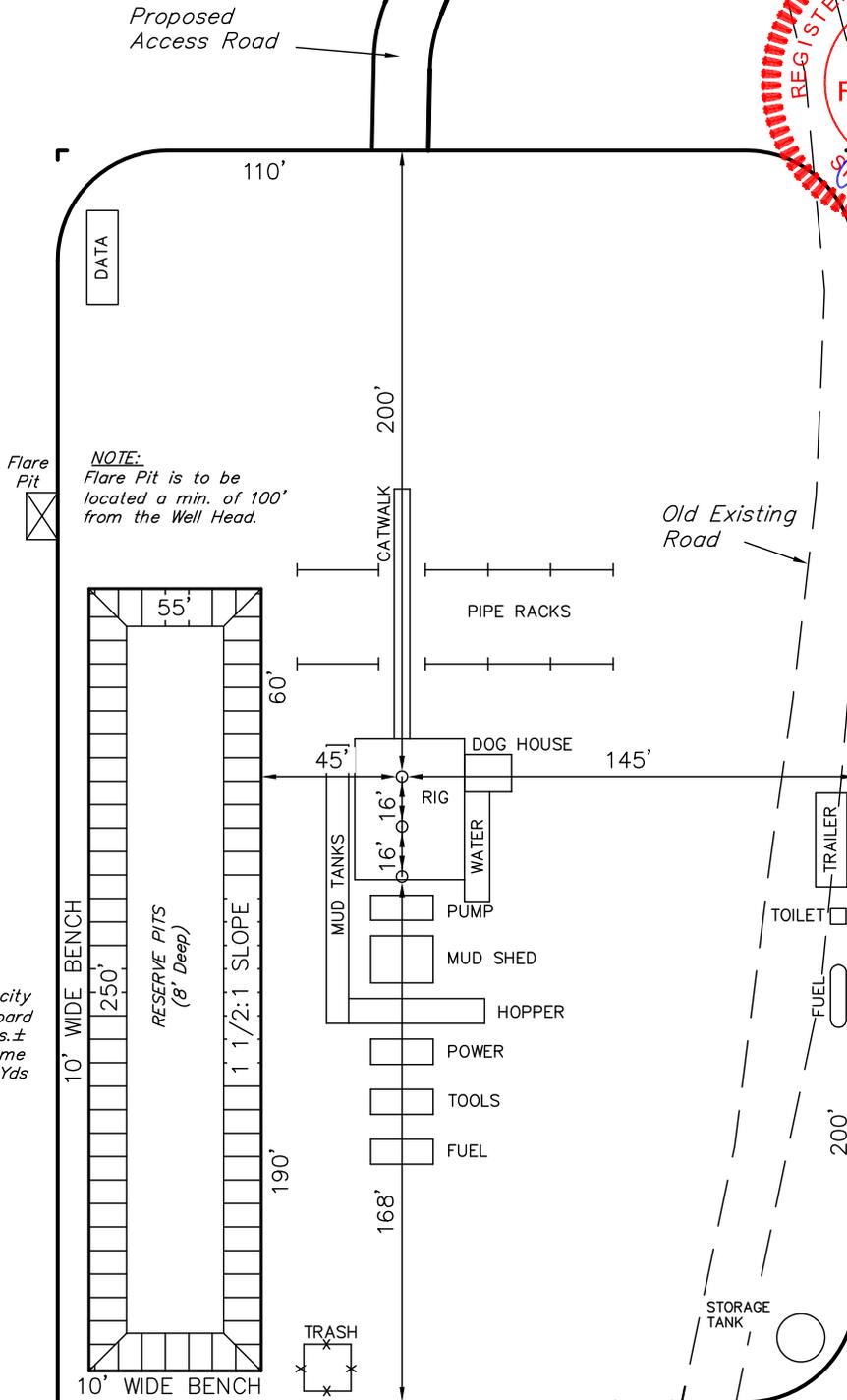
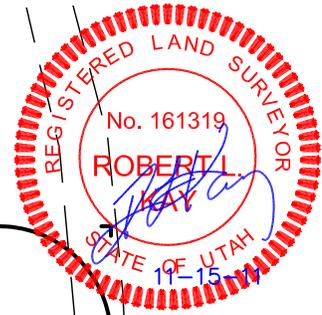
SE 1/4 SE 1/4

FIGURE #3

SCALE: 1" = 60'

DATE: 10-07-11

DRAWN BY: Z.L.



Total Pit Capacity  
 W/2' of Freeboard  
 = 10,070 Bbls. ±  
 Total Pit Volume  
 = 3,040 Cu. Yds

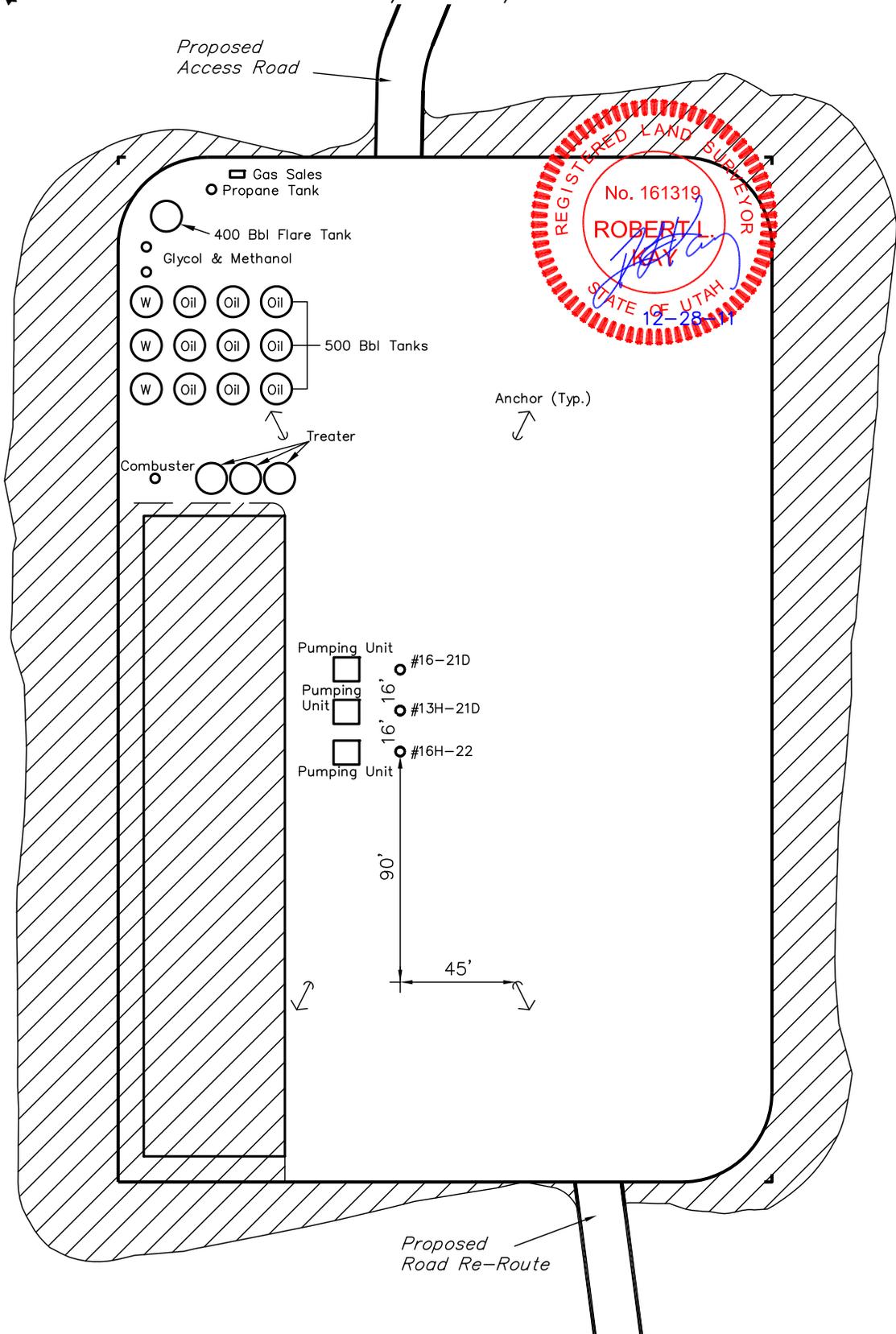
# BILL BARRETT CORPORATION

## INTERIM RECLAMATION PLAN FOR

LC FEE #16-21D-47, #13H-21-47 & LC TRIBAL #16H-22-47  
SECTION 21, T4S, R7W, U.S.B&M.  
SE 1/4 SE 1/4

FIGURE #4

SCALE: 1" = 60'  
DATE: 10-07-11  
DRAWN BY: Z.L.  
REV: 12-27-11 A.W.

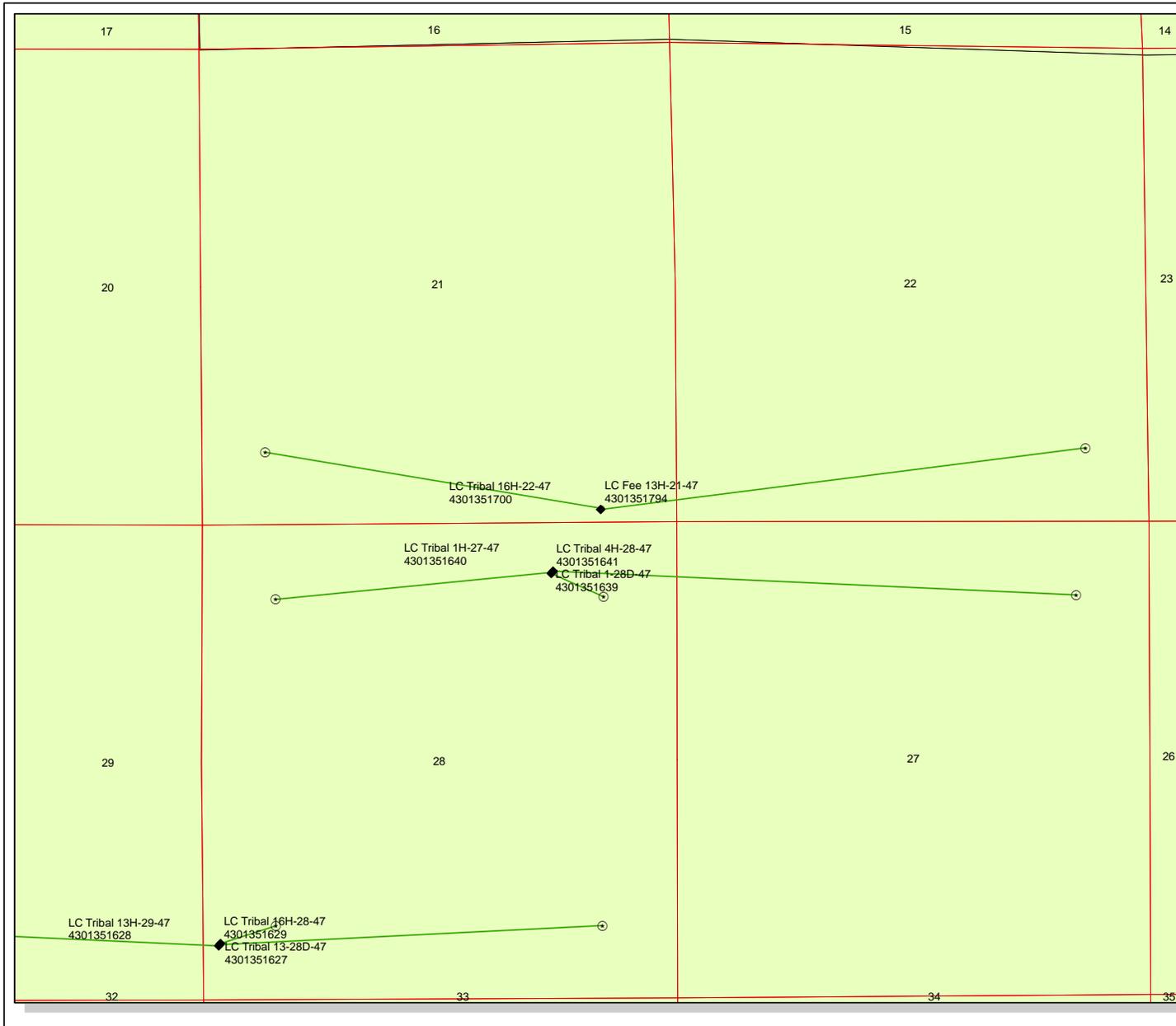


 INTERIM RECLAMATION AREA

APPROXIMATE ACREAGES  
UN-RECLAIMED = ± 1.928 ACRES

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

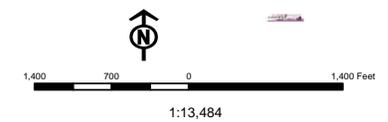
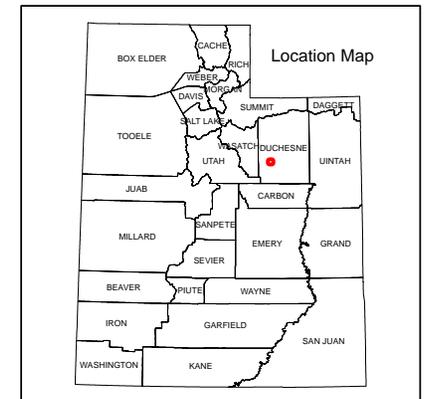
RECEIVED: October 18, 2012



**API Number: 4301351794**  
**Well Name: LC Fee 13H-21-47**  
**Township T04.0S Range R07.0W Section 21**  
**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   | DRIL - 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&GasDls   |
| STORAGE       |                                     |
| TERMINATED    |                                     |



Well Name	BILL BARRETT CORP LC Fee 13H-21-47 43013517940000			
String	COND	SURF	I1	L1
Casing Size(")	16.000	9.625	7.000	4.500
Setting Depth (TVD)	80	800	4332	8114
Previous Shoe Setting Depth (TVD)	0	80	800	4332
Max Mud Weight (ppg)	8.8	8.8	9.2	9.5
BOPE Proposed (psi)	0	1000	5000	5000
Casing Internal Yield (psi)	1000	3520	9950	10690
Operators Max Anticipated Pressure (psi)	2354			5.6

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=		80	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

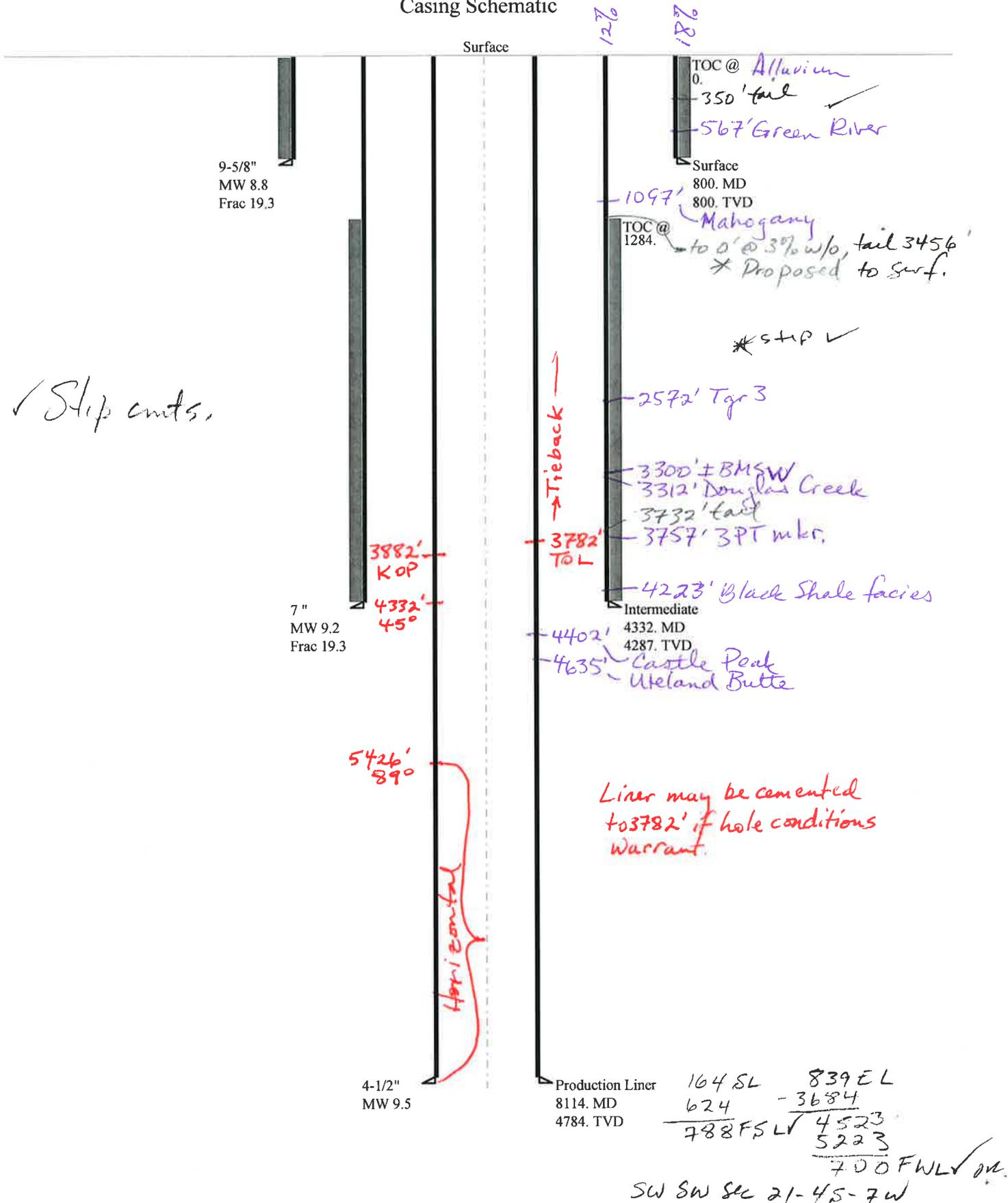
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	366	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	270	YES diverter with rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	190	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	208	NO OK
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=	2072	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1552	YES 5M BOPE
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1119	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1295	NO OK
Required Casing/BOPE Test Pressure=		4332	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=	4008	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3034	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2223	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3176	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		4332	psi *Assumes 1psi/ft frac gradient

# 43013517940000 LC Fee 13H-21-47

## Casing Schematic



Well name:	<b>43013517940000 LC Fee 13H-21-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Surface	Project ID:	43-013-51794
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: 4,287 ft  
 Next mud weight: 9.200 ppg  
 Next setting BHP: 2,049 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: December 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>43013517940000 LC Fee 13H-21-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Intermediate	Project ID:	43-013-51794
Location:	DUCHESNE COUNTY		

**Design parameters:**

**Collapse**

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

**Burst**

Max anticipated surface pressure: 1,309 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP: 2,252 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: 3,692 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 134 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

Cement top: 1,284 ft

Completion type is subs

**Directional Info - Build & Hold**

Kick-off point: 3882 ft  
 Departure at shoe: 168 ft  
 Maximum dogleg: 10 °/100ft  
 Inclination at shoe: 44.97 °

**Re subsequent strings:**

Next setting depth: 4,784 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 2,361 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 4,287 ft  
 Injection pressure: 4,287 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	4332	7	26.00	P-110	LT&C	4287	4332	6.151	45031

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	2049	5949	2.903	2252	9950	4.42	111.5	693	6.22 J

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

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

Date: December 3, 2012  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 4287 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>43013517940000 LC Fee 13H-21-47</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Production Liner	Project ID:	43-013-51794
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: 141 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

**Burst**

Max anticipated surface pressure: 1,309 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 2,361 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: 5,018 ft

Liner top: 3,782 ft

**Directional well information:**

Kick-off point 3882 ft  
 Departure at shoe: 3739 ft  
 Maximum dogleg: 10 °/100ft  
 Inclination at shoe: 88.72 °

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	4314	4.5	11.60	P-110	LT&C	4784	8114	3.875	20785
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	2361	7580	3.210	2361	10690	4.53	11.4	279	24.44 J

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

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

Date: December 4, 2012  
 Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 4784 ft, a mud weight of 9.5 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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

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<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
7013	43013517940000	LOCKED	OW	I	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>		
<b>Well Name</b>	LC Fee 13H-21-47		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>	DRILL	
<b>Location</b>	SESE 21 4S 7W U 164 FSL 839 FEL GPS Coord (UTM) 527818E 4440197N				

**Geologic Statement of Basis**

Bill Barrett proposes to set 80' of conductor and 800' of surface casing at this location. Conductor and surface casing holes will be drilled with a fresh water mud system. The base of the moderately saline water is at approximately 3,300 feet in this area. This location lies on alluvium derived from the Green River Formation. Good aquifers can be found in the Green River Formation and associated alluvium. A search of Division of Water Rights records indicates 6 water wells within a 10,000 foot radius of the proposed location. All wells are located over a mile from the proposed location. These wells produce from depths ranging from 35-200 feet and probably produce from alluvium associated with the Strawberry River. Depth is not listed for 1 well. Listed uses are domestic, irrigation and stock watering. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill  
**APD Evaluator**

11/19/2012  
**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**

11/19/2012  
**Date / Time**

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

<b>Category</b>	<b>Condition</b>
Surface	None

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/18/2012

API NO. ASSIGNED: 43013517940000

WELL NAME: LC Fee 13H-21-47

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8172

CONTACT: Venessa Langmacher

PROPOSED LOCATION: SESE 21 040S 070W

Permit Tech Review: 

SURFACE: 0164 FSL 0839 FEL

Engineering Review: 

BOTTOM: 0810 FSL 0700 FWL

Geology Review: 

COUNTY: DUCHESNE

LATITUDE: 40.11162

LONGITUDE: -110.67358

UTM SURF EASTINGS: 527818.00

NORTHINGS: 4440197.00

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:

- PLAT
- Bond: STATE - LPM4138148
- 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

Commingling 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 Producing Grrv-Wstc Wells In Sec Drl Unit
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll  
 4 - Federal Approval - dmason  
 5 - Statement of Basis - bhll  
 8 - Cement to Surface -- 2 strings - 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 Fee 13H-21-47

**API Well Number:** 43013517940000

**Lease Number:** Fee

**Surface Owner:** INDIAN

**Approval Date:** 12/24/2012

### 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.

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

Cement volumes for the 9 5/8" and 7" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

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.

**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	<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.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Uintay
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LC Fee 13H-21-47
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43013517940000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0164 FSL 0839 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 21 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

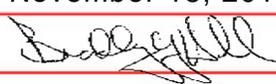
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/24/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<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 hereby request a one year extension for APD

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

**Date:** November 18, 2013

**By:** 

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 11/11/2013	



**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 43013517940000**

API: 43013517940000

Well Name: LC Fee 13H-21-47

Location: 0164 FSL 0839 FEL QTR SESE SEC 21 TWP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 12/24/2012

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: 11/11/2013

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: UTE
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: LC Fee 13H-21-47
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43013517940000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0164 FSL 0839 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 21 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: 12/24/2015	<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 hereby requesting a one year extension for APD

**Approved by the**  
**October 14, 2014**  
**Oil, Gas and Mining**

**Date:** \_\_\_\_\_

**By:** 

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 10/8/2014	



**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 43013517940000**

API: 43013517940000

Well Name: LC Fee 13H-21-47

Location: 0164 FSL 0839 FEL QTR SESE SEC 21 TWP 040S RNG 070W MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 12/24/2012

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: 10/8/2014

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

January 14, 2016

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

Re: APD Rescinded – LC Fee 13H-21-47, Sec. 21, T. 4S, R. 7W  
Duchesne County, Utah API No. 43-013-51794

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on December 24, 2012. On November 18, 2013 and October 14, 2014 the Division granted a one-year APD extension. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective January 14, 2016.

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