

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

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>		<b>1. WELL NAME and NUMBER</b> LC Tribal 2-36D-45
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		<b>3. FIELD OR WILDCAT</b> UNDESIGNATED
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO		<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP		<b>7. OPERATOR PHONE</b> 303 312-8134
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202		<b>9. OPERATOR E-MAIL</b> tfallang@billbarrettcorp.com
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005500	<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Utah Division of Wildlife Resources		<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> 152 East 100 North, Suite 9, VERNAL, UT 84078		<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>	<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	850 FNL 1981 FEL	NWNE	36	4.0 S	5.0 W	U
Top of Uppermost Producing Zone	700 FNL 1980 FEL	NWNE	36	4.0 S	5.0 W	U
At Total Depth	700 FNL 1980 FEL	NWNE	36	4.0 S	5.0 W	U

<b>21. COUNTY</b> DUCHEсне	<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 700	<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640
<b>27. ELEVATION - GROUND LEVEL</b> 6295	<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion)</b> 4600	<b>26. PROPOSED DEPTH</b> MD: 7733 TVD: 7727
	<b>28. BOND NUMBER</b> LPM8874725	<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-180

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
COND	26	16	0 - 80	65.0	Unknown	8.8	No Used	0	0.0	0.0
SURF	12.25	9.625	0 - 1000	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	260	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
PROD	8.75	5.5	0 - 7733	17.0	P-110 LT&C	10.0	Unknown	330	2.31	11.0
							Unknown	1170	1.42	13.5

**ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

<b>NAME</b> Brady Riley	<b>TITLE</b> Permit Analyst	<b>PHONE</b> 303 312-8115
<b>SIGNATURE</b>	<b>DATE</b> 07/15/2014	<b>EMAIL</b> briley@billbarrettcorp.com
<b>API NUMBER ASSIGNED</b> 43013530580000		<b>APPROVAL</b>

**Received: September 30, 2014**

**BILL BARRETT CORPORATION**  
**DRILLING PLAN**

**LC Tribal 2-36D-45**

NW NE, 850' FNL and 1981' FEL, Section 36, T4S-R5W, USB&M (surface hole)

NW NE, 700' FNL and 1980' FEL, Section 36, T4S-R5W, USB&M (bottom hole)

Duchesne County, Utah

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

<b>Formation</b>	<b>Depth – MD</b>	<b>Depth - TVD</b>
Green River	2,013'	2,013'
Mahogany	2,766'	2,763'
Lower Green River*	3,883'	3,877'
Douglas Creek	4,683'	4,677'
Black Shale	5,449'	5,443'
Castle Peak	5,672'	5,666'
Uteland Butte	6,049'	6,043'
Wasatch*	6,236'	6,240'
TD	7,733'	7,727'

\*PROSPECTIVE PAY: The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 2445'

**3. BOP and Pressure Containment Data**

<b>Depth Intervals</b>	<b>BOP Equipment</b>
0 – 900'	No pressure control required
1,900' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<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>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1900'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

5. **Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 260 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1400'
5 1/2" Production Casing	Lead: 330 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,400' Tail: 1170 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft <sup>3</sup> /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 3383'

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 1,900'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
1,900' – TD	8.6 – 10.0	42-52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at well site. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. **Testing, Logging and Core Programs**

Cores	None anticipated;
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4018 psi\* and maximum anticipated surface pressure equals approximately 2318 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 TVD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TVD)

Bill Barrett Corporation  
Drilling Program  
LC Tribal 2-36D-45  
Duchesne County, Utah

9. **Auxiliary Equipment**

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

10. **Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W water right number 43-180.

11. **Drilling Schedule**

Location Construction:	To be determined
Spud:	To be determined
Duration:	15 days drilling time 6 days completion time

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# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

Well Name: LC Tribal 2-36D-45

### Surface Hole Data:

Total Depth:	1,900'
Top of Cement:	1,400'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	767.3	ft <sup>3</sup>
Lead Fill:	1,400'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

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

### Calculated # of Sacks:

# SK's Lead: **260**

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,400'	

# SK's Tail: **210**

### Production Hole Data:

Total Depth:	7,733'
Top of Cement:	1,400'
Top of Tail:	3,383'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	751.3	ft <sup>3</sup>
Lead Fill:	1,983'	
Tail Volume:	1648.3	ft <sup>3</sup>
Tail Fill:	4,350'	

### Cement Data:

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

### Calculated # of Sacks:

# SK's Lead: **330**

# SK's Tail: **1170**

**LC Tribal 2-36D-45 Proposed Cementing Program**

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1400' - 1400')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 1,400'
2.0% Bentonite	Calculated Fill: 1,400'
	Volume: 136.65 bbl
	<b>Proposed Sacks: 260 sks</b>
<b>Tail Cement - (TD - 1400')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 2.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,400'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (3383' - 1400')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,400'
	Calculated Fill: 1,983'
	Volume: 133.81 bbl
	<b>Proposed Sacks: 330 sks</b>
<b>Tail Cement - (7733' - 3383')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 3,383'
	Calculated Fill: 4,350'
	Volume: 293.56 bbl
	<b>Proposed Sacks: 1170 sks</b>

## PRESSURE CONTROL EQUIPMENT – Schematic Attached

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

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

B. **Pressure Rating:** 5,000 psi

C. **Testing Procedure:**

### Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

### Blow-Out Preventer

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

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

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

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

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

#### **D. Choke Manifold Equipment:**

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

#### **E. Accumulator:**

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

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

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

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

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

**F. Miscellaneous Information:**

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

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

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

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Set Marked Stone, Pile of Stones

5/8" Rebar, N/S Fence, Pile of Stones

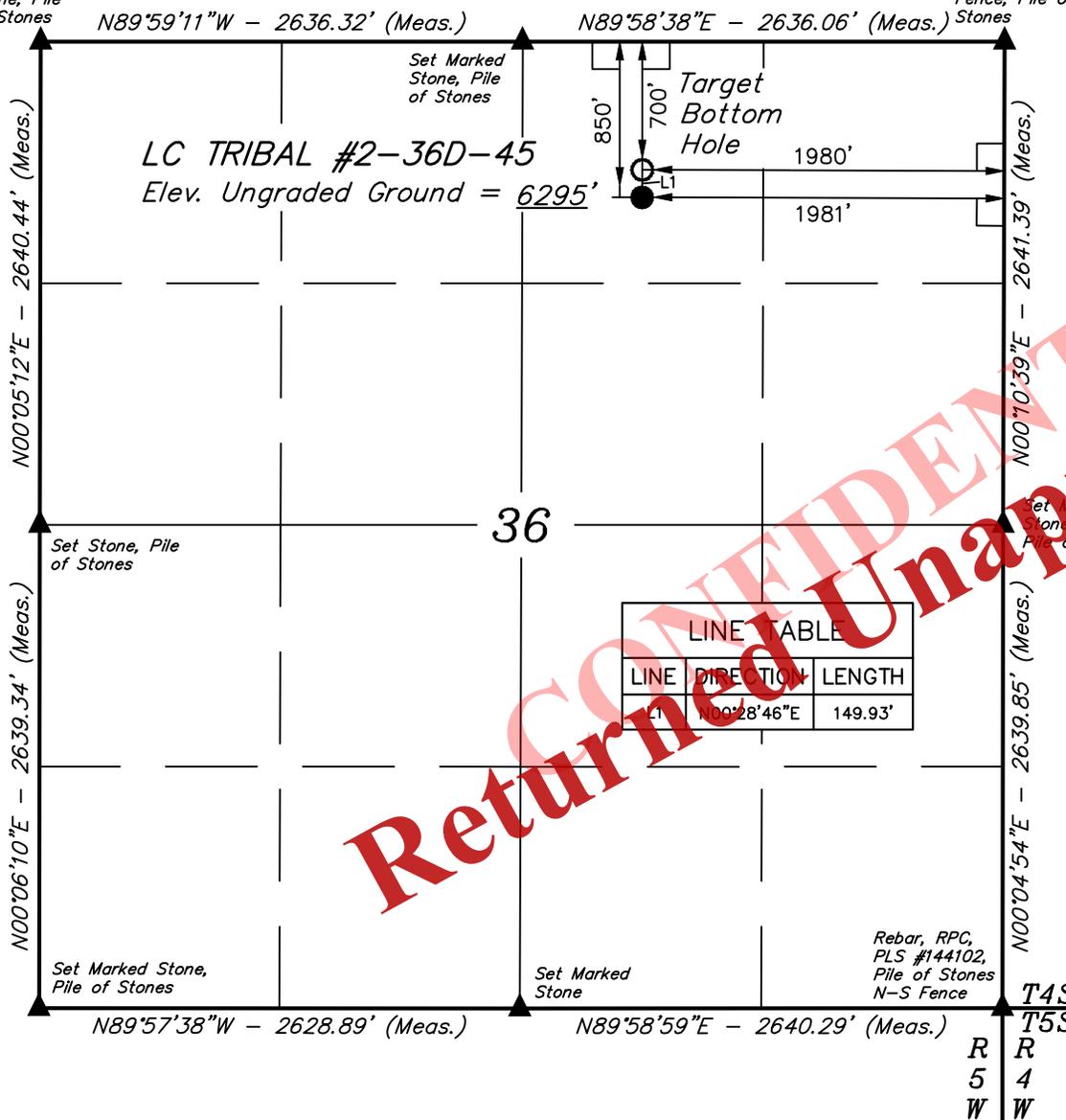
Well location, LC TRIBAL #2-36D-45, located as shown in the NW 1/4 NE 1/4 of Section 36, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

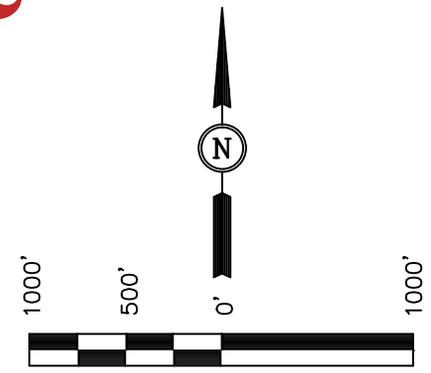
BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

BASIS OF BEARINGS

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

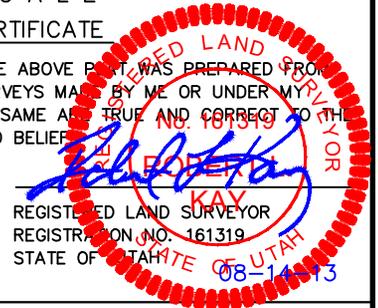


LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N00°28'46"E	149.93'



SCALE  
CERTIFICATE

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



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

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°05'42.44" (40.095122)	LATITUDE = 40°05'40.96" (40.094711)
LONGITUDE = 110°23'46.90" (110.396361)	LONGITUDE = 110°23'46.92" (110.396367)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°05'42.59" (40.095164)	LATITUDE = 40°05'41.10" (40.094750)
LONGITUDE = 110°23'44.35" (110.395653)	LONGITUDE = 110°23'44.36" (110.395656)

SCALE 1" = 1000'	DATE SURVEYED: 07-23-13	DATE DRAWN: 07-25-13
PARTY N.F. C.I. B.D.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE BILL BARRETT CORPORATION	

Received: July 15, 2014

# BILL BARRETT CORPORATION

## LC TRIBAL #2-36-45

LOCATED IN DUCHESNE COUNTY, UTAH  
SECTION 36, T4S, R5W, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS	07	31	13	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: N.E.	DRAWN BY: S.O.	REVISED: 00-00-00		

Received: July 15, 2014

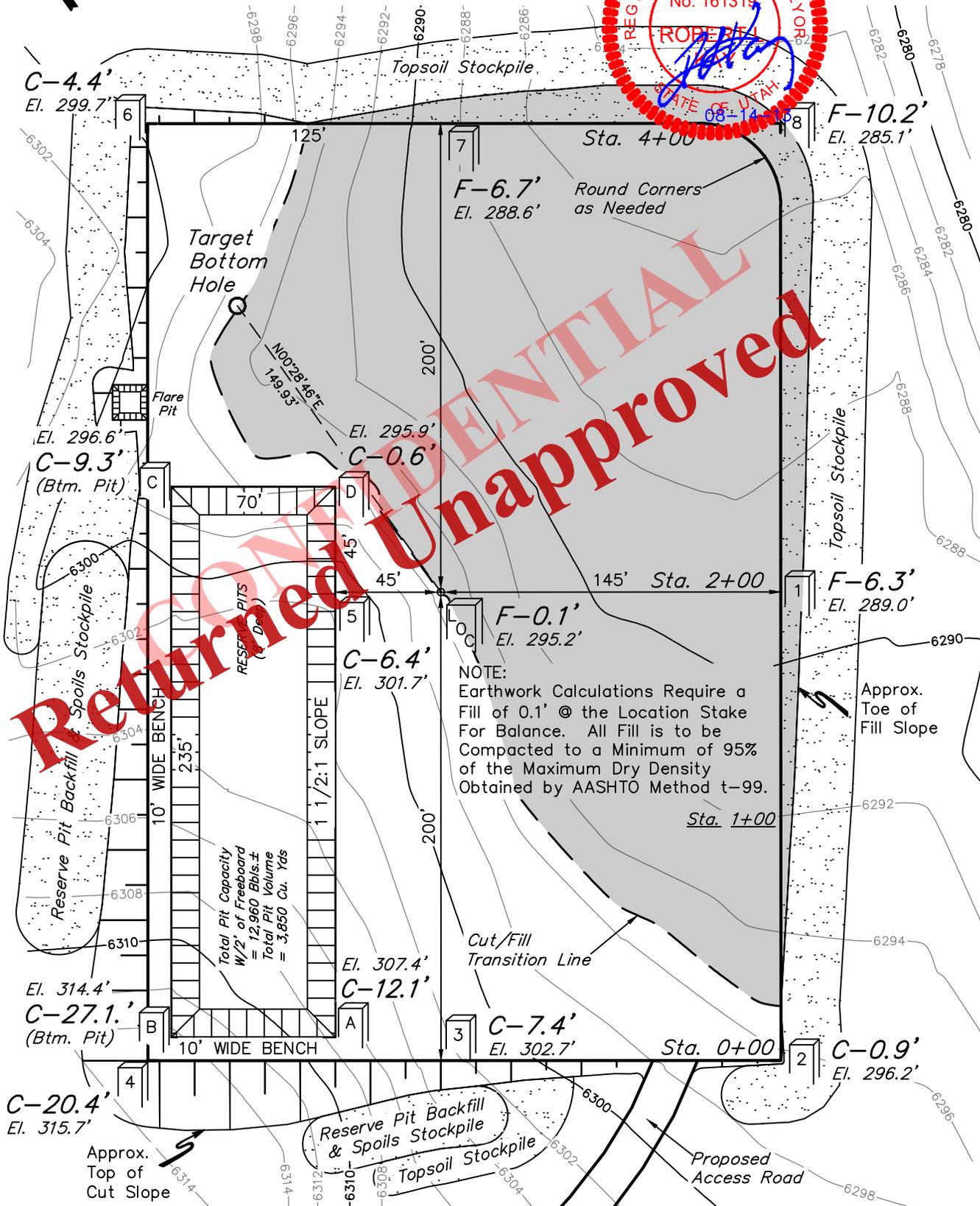
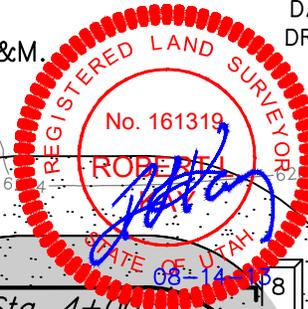
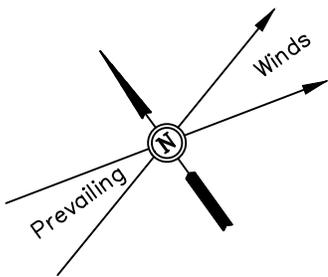
**BILL BARRETT CORPORATION**

LOCATION LAYOUT FOR

LC TRIBAL #2-36D-45  
SECTION 36, T4S, R5W, U.S.B.&M.  
850' FNL 1981' FEL

**FIGURE #1**

SCALE: 1" = 60'  
DATE: 07-25-13  
DRAWN BY: B.D.H.



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Elev. Ungraded Ground At Loc. Stake = **6295.2'**  
FINISHED GRADE ELEV. AT LOC. STAKE = **6295.3'**

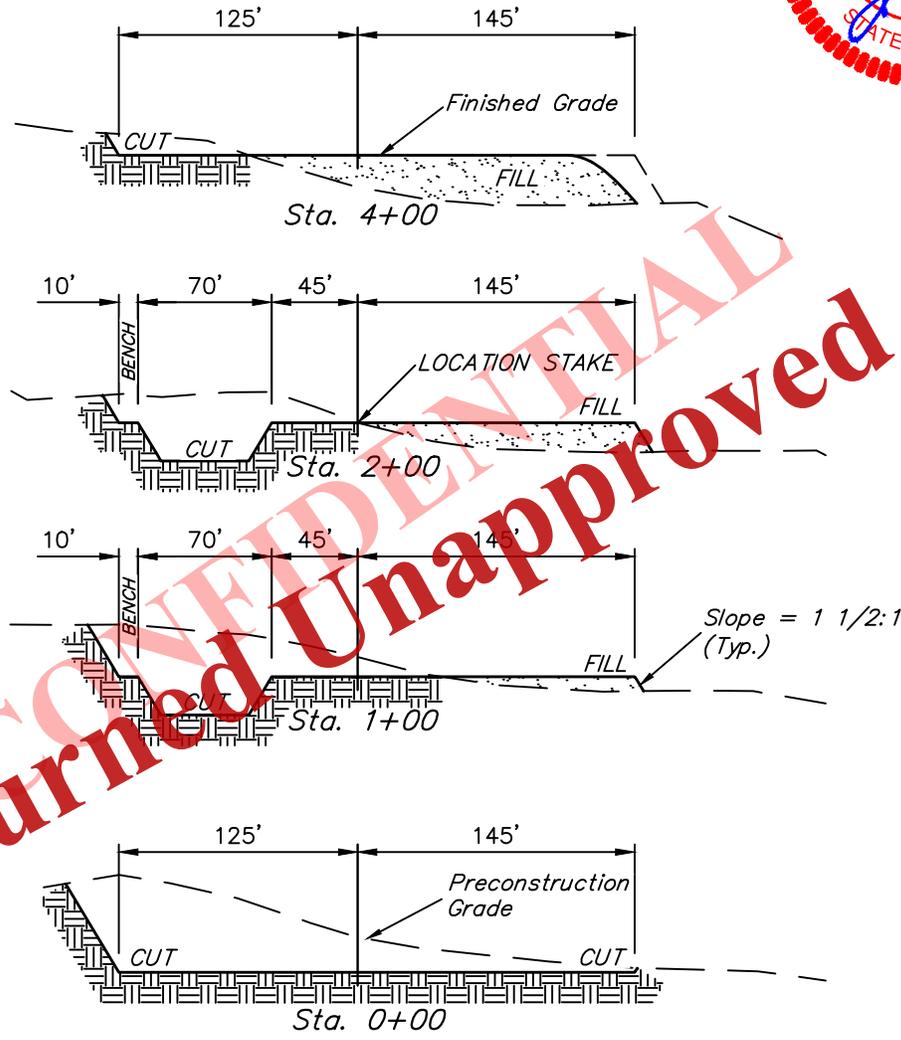
**UINTAH ENGINEERING & LAND SURVEYING**  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

**Received: July 15, 2014**

1" = 40'  
 X-Section Scale  
 1" = 100'  
 DATE: 07-25-13  
 DRAWN BY: B.D.H.

**BILL BARRETT CORPORATION**  
 TYPICAL CROSS SECTIONS FOR  
 LC TRIBAL #2-36D-45  
 SECTION 36, T4S, R5W, U.S.B.&M.  
 850' FNL 1981' FEL

**FIGURE #2**



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APPROXIMATE ACREAGE  
 WELL SITE DISTURBANCE = ± 4.656 ACRES  
 ACCESS ROAD DISTURBANCE = ± 0.339 ACRES  
 PIPELINE DISTURBANCE = ± 0.352 ACRES  
 TOTAL = ± 5.347 ACRES

\* NOTE:  
 FILL QUANTITY INCLUDES  
 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 2,300 Cu. Yds.  
 Remaining Location = 15,440 Cu. Yds.  
 TOTAL CUT = 17,740 CU. YDS.  
 FILL = 13,510 CU. YDS.

EXCESS MATERIAL = 4,230 Cu. Yds.  
 Topsoil & Pit Backfill = 4,230 Cu. Yds.  
 (1/2 Pit Vol.)  
 EXCESS UNBALANCE = 0 Cu. Yds.  
 (After Interim Rehabilitation)

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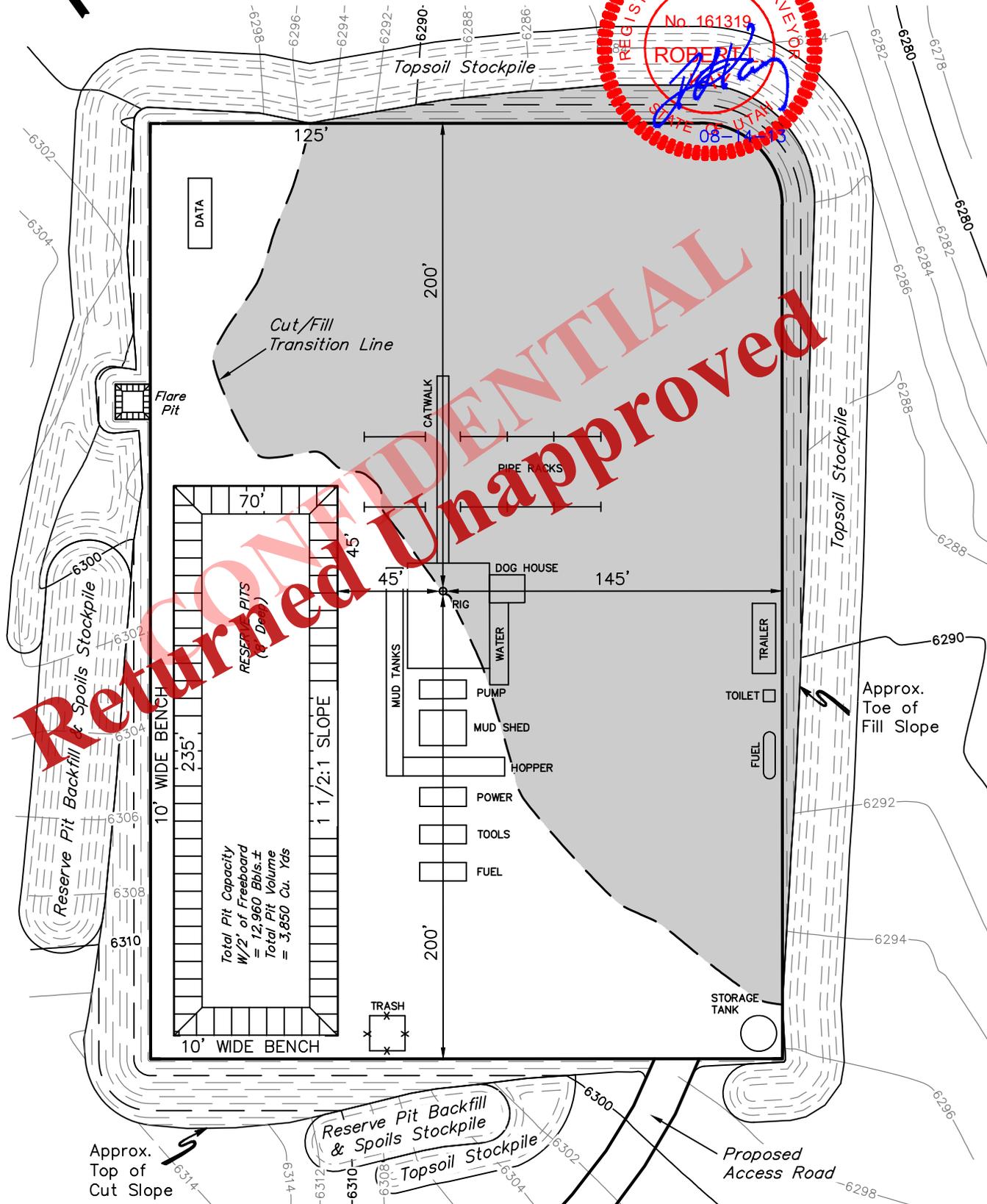
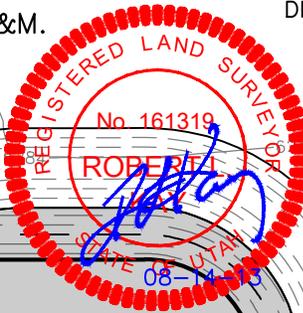
BILL BARRETT CORPORATION

TYPICAL RIG LAYOUT FOR

LC TRIBAL #2-36D-45  
SECTION 36, T4S, R5W, U.S.B.&M.  
850' FNL 1981' FEL

FIGURE #3

SCALE: 1" = 60'  
DATE: 07-25-13  
DRAWN BY: B.D.H.



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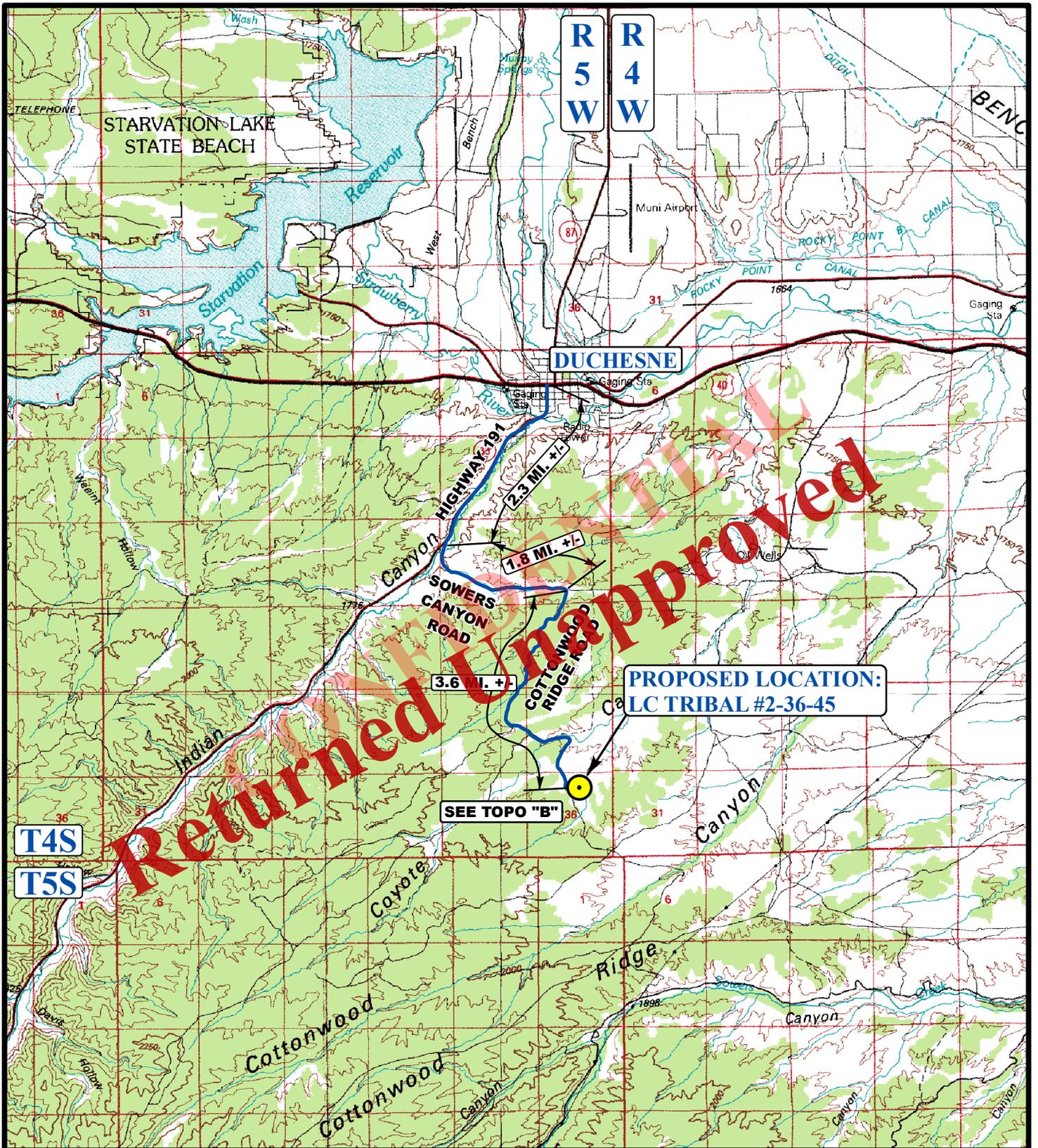
Total Pit Capacity  
W/2' of Freeboard  
= 12,960 Bbls.±  
Total Pit Volume  
= 3,850 Cu. Yds

BILL BARRETT CORPORATION  
LC TRIBAL #2-36-45  
SECTION 36, T4S, R5W, U.S.B.&M.

PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION FROM DUCHESNE, UTAH ALONG U.S. HIGHWAY 191 APPROXIMATELY 2.3 MILES TO THE JUNCTION OF THIS ROAD AND SOWERS CANYON ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND COTTONWOOD RIDGE ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 3.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 563' TO THE BEGINNING OF THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 7.8 MILES.

**Returned Unapproved**



T4S

T5S

R  
5  
W

R  
4  
W

**LEGEND:**

 PROPOSED LOCATION



**BILL BARRETT CORPORATION**

LC TRIBAL #2-36-45  
SECTION 36, T4S, R5W, U.S.B.&M.  
850' FNL 1981' FEL



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

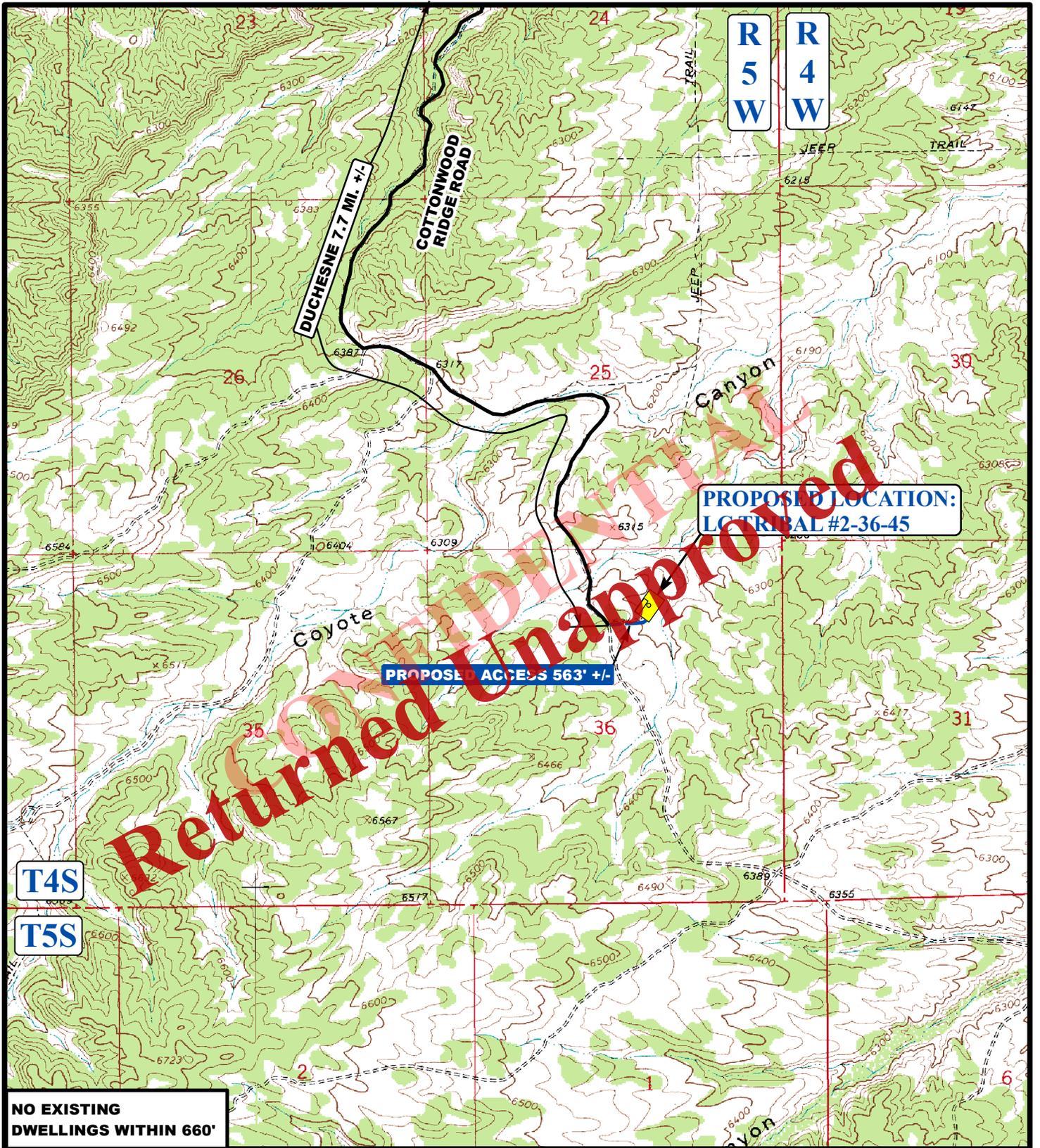
**ACCESS ROAD  
MAP**

<b>07</b> MONTH	<b>31</b> DAY	<b>13</b> YEAR
--------------------	------------------	-------------------

SCALE: 1:100,000 DRAWN BY: S.O. REVISED: 00-00-00



**Received: July 15, 2014**



**NO EXISTING DWELLINGS WITHIN 660'**

**LEGEND:**

- EXISTING ROADS
- PROPOSED ACCESS ROAD

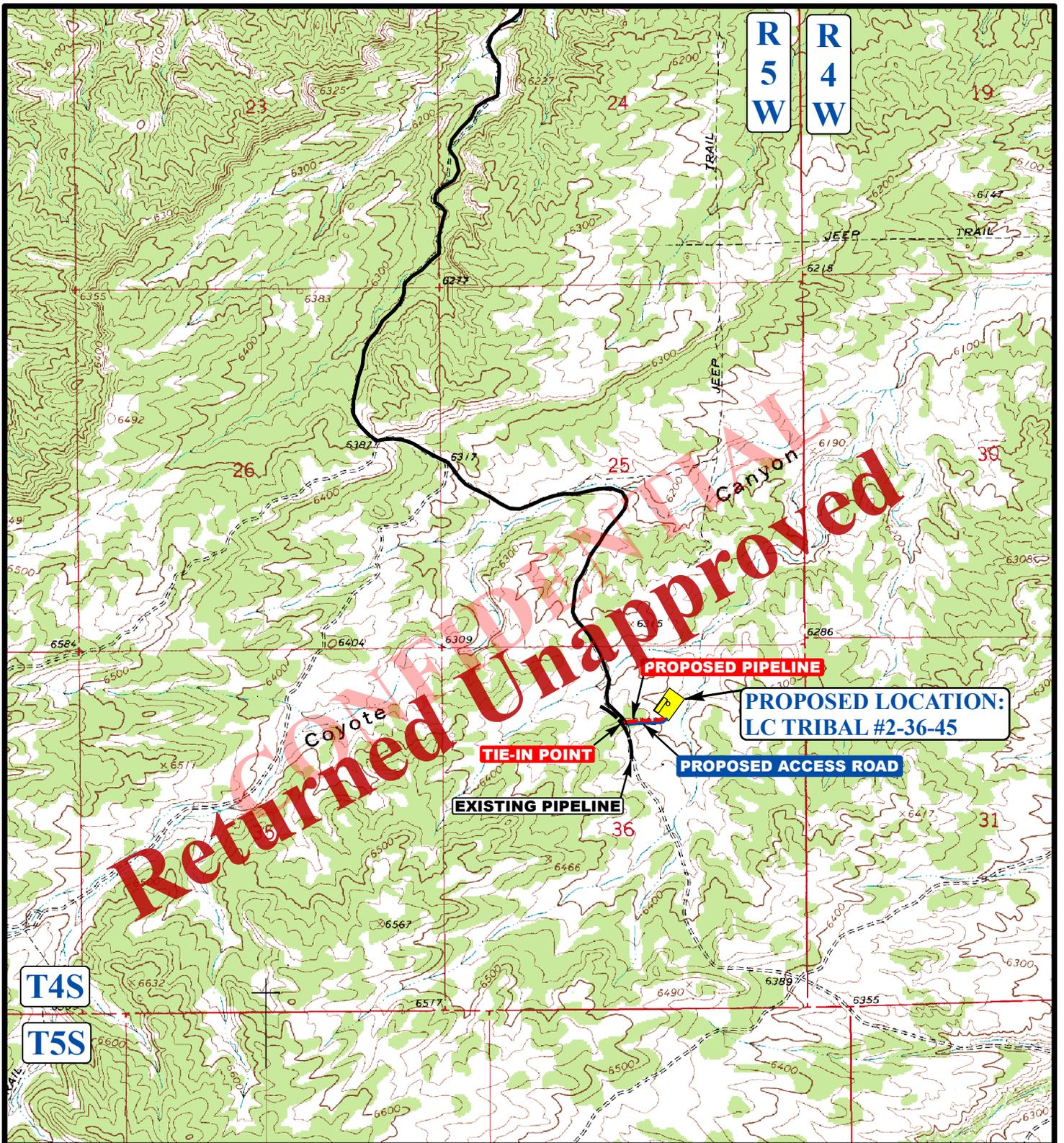
**UEIS** **Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**LC TRIBAL #2-36-45**  
**SECTION 36, T4S, R5W, U.S.B.&M.**  
**850' FNL 1981' FEL**

<b>ACCESS ROAD MAP</b>	<b>07</b>	<b>31</b>	<b>13</b>	<b>B TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1"=2000'		DRAWN BY: S.O.		REVISED: 00-00-00



**APPROXIMATE TOTAL PIPELINE DISTANCE = 606' +/-**

**LEGEND:**

-  EXISTING ROADS
-  PROPOSED ACCESS ROAD
-  PROPOSED PIPELINE
-  EXISTING PIPELINE



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**BILL BARRETT CORPORATION**

**LC TRIBAL #2-36-45**  
**SECTION 36, T4S, R5W, U.S.B.&M.**  
**850' FNL 1981' FEL**

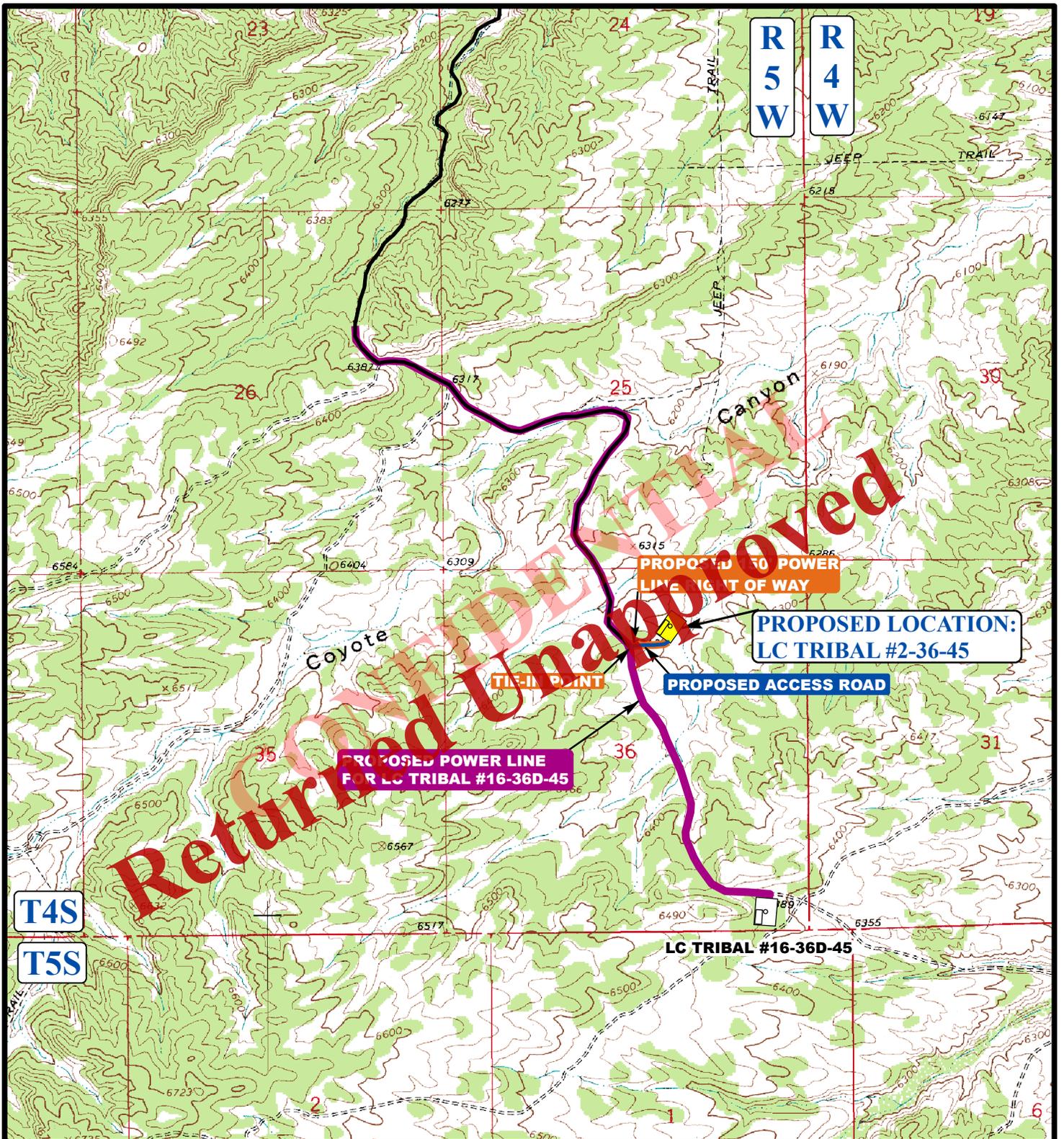
**TOPOGRAPHIC**  
**MAP**

<b>07</b>	<b>31</b>	<b>13</b>
MONTH	DAY	YEAR

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

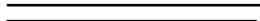


**Received: July 15, 2014**



APPROXIMATE TOTAL POWER LINE DISTANCE 579' +/-

**LEGEND:**

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



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 85 South 200 East Vernal, Utah 84078  
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**BILL BARRETT CORPORATION**

LC TRIBAL #2-36-45  
 SECTION 36, T4S, R5W, U.S.B.&M.  
 850' FNL 1981' FEL

**TOPOGRAPHIC MAP**  
 SCALE: 1"=2000' DRAWN BY: S.O.

<b>07</b> MONTH	<b>31</b> DAY	<b>13</b> YEAR
REVISED: 00-00-00		



Received: July 15, 2014



# Bill Barrett Corporation

Fort Duchesne  
SECTION 36 T4S, R5W  
LC Tribal 2-36D-45

Wellbore #1

Plan: Design #1

## Standard Planning Report

02 July, 2014

**CONFIDENTIAL**  
**Returned Unapproved**





**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well LC Tribal 2-36D-45
<b>Company:</b>	Bill Barrett Corporation	<b>TVD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Project:</b>	Fort Duchesne	<b>MD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T4S, R5W	<b>North Reference:</b>	True
<b>Well:</b>	LC Tribal 2-36D-45	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	Fort Duchesne		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Utah Southern Zone		

<b>Site</b>	SECTION 36 T4S, R5W				
<b>Site Position:</b>		<b>Northing:</b>	11,092,959.20 usft	<b>Latitude:</b>	40° 5' 40.960 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	1,949,417.00 usft	<b>Longitude:</b>	110° 23' 46.920 W
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "	<b>Grid Convergence:</b>	0.68 °

<b>Well</b>	LC Tribal 2-36D-45, SHL: 40° 5' 40.960 -110° 23' 46.920					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,092,959.19 usft	<b>Latitude:</b>	40° 5' 40.960 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	1,949,417.00 usft	<b>Longitude:</b>	110° 23' 46.920 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	6,307.0 usft	<b>Ground Level:</b>	6,295.0 usft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	7/1/2014	11.07	65.69	51,944

<b>Design</b>	Design #1			
<b>Audit Notes:</b>				
<b>Version:</b>	Present	PROTOTYPE	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	0.59

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,251.2	5.27	0.59	2,250.7	16.1	0.2	1.50	1.50	0.00	0.59	
3,532.2	5.27	0.59	3,526.3	133.7	1.4	0.00	0.00	0.00	0.00	
3,883.4	0.00	0.00	3,877.0	149.9	1.6	1.50	-1.50	0.00	180.00	LC Tribal 2-36D-45 T
7,733.4	0.00	0.00	7,727.0	149.9	1.6	0.00	0.00	0.00	0.00	



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well LC Tribal 2-36D-45
<b>Company:</b>	Bill Barrett Corporation	<b>TVD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Project:</b>	Fort Duchesne	<b>MD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T4S, R5W	<b>North Reference:</b>	True
<b>Well:</b>	LC Tribal 2-36D-45	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	1.50	0.59	2,000.0	1.3	0.0	1.3	1.50	1.50	0.00
2,100.0	3.00	0.59	2,093.9	5.2	0.1	5.2	1.50	1.50	0.00
2,200.0	4.50	0.59	2,199.7	11.8	0.1	11.8	1.50	1.50	0.00
2,251.2	5.27	0.59	2,250.7	16.1	0.2	16.1	1.50	1.50	0.00
2,300.0	5.27	0.59	2,299.3	20.6	0.2	20.6	0.00	0.00	0.00
2,400.0	5.27	0.59	2,398.9	29.8	0.3	29.8	0.00	0.00	0.00
2,500.0	5.27	0.59	2,498.5	39.0	0.4	39.0	0.00	0.00	0.00
2,600.0	5.27	0.59	2,598.0	48.2	0.5	48.2	0.00	0.00	0.00
2,700.0	5.27	0.59	2,697.6	57.3	0.6	57.3	0.00	0.00	0.00
2,800.0	5.27	0.59	2,797.2	66.5	0.7	66.5	0.00	0.00	0.00
2,900.0	5.27	0.59	2,896.8	75.7	0.8	75.7	0.00	0.00	0.00
3,000.0	5.27	0.59	2,996.3	84.9	0.9	84.9	0.00	0.00	0.00
3,100.0	5.27	0.59	3,095.9	94.1	1.0	94.1	0.00	0.00	0.00
3,200.0	5.27	0.59	3,195.5	103.2	1.1	103.3	0.00	0.00	0.00
3,300.0	5.27	0.59	3,295.1	112.4	1.2	112.4	0.00	0.00	0.00
3,400.0	5.27	0.59	3,394.7	121.6	1.3	121.6	0.00	0.00	0.00
3,500.0	5.27	0.59	3,494.2	130.8	1.4	130.8	0.00	0.00	0.00
3,532.2	5.27	0.59	3,526.3	133.7	1.4	133.8	0.00	0.00	0.00
3,600.0	4.25	0.59	3,593.9	139.4	1.4	139.4	1.50	-1.50	0.00
3,700.0	2.75	0.59	3,693.7	145.5	1.5	145.5	1.50	-1.50	0.00
3,800.0	1.25	0.59	3,793.6	149.0	1.5	149.0	1.50	-1.50	0.00
3,883.4	0.00	0.00	3,877.0	149.9	1.6	149.9	1.50	-1.50	0.00
3,900.0	0.00	0.00	3,893.6	149.9	1.6	149.9	0.00	0.00	0.00
4,000.0	0.00	0.00	3,993.6	149.9	1.6	149.9	0.00	0.00	0.00
4,100.0	0.00	0.00	4,093.6	149.9	1.6	149.9	0.00	0.00	0.00
4,200.0	0.00	0.00	4,193.6	149.9	1.6	149.9	0.00	0.00	0.00
4,300.0	0.00	0.00	4,293.6	149.9	1.6	149.9	0.00	0.00	0.00
4,400.0	0.00	0.00	4,393.6	149.9	1.6	149.9	0.00	0.00	0.00
4,500.0	0.00	0.00	4,493.6	149.9	1.6	149.9	0.00	0.00	0.00
4,600.0	0.00	0.00	4,593.6	149.9	1.6	149.9	0.00	0.00	0.00
4,700.0	0.00	0.00	4,693.6	149.9	1.6	149.9	0.00	0.00	0.00
4,800.0	0.00	0.00	4,793.6	149.9	1.6	149.9	0.00	0.00	0.00
4,900.0	0.00	0.00	4,893.6	149.9	1.6	149.9	0.00	0.00	0.00
5,000.0	0.00	0.00	4,993.6	149.9	1.6	149.9	0.00	0.00	0.00



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well LC Tribal 2-36D-45
<b>Company:</b>	Bill Barrett Corporation	<b>TVD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Project:</b>	Fort Duchesne	<b>MD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T4S, R5W	<b>North Reference:</b>	True
<b>Well:</b>	LC Tribal 2-36D-45	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,100.0	0.00	0.00	5,093.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,193.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,293.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,393.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,493.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,593.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,693.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,793.6	149.9	1.6	149.9	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,893.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,993.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,093.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,193.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,293.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,393.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,493.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,593.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,693.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,793.6	149.9	1.6	149.9	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,893.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,993.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,093.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,193.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,293.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,393.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,493.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,593.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,693.6	149.9	1.6	149.9	0.00	0.00	0.00	
7,733.4	0.00	0.00	7,727.0	149.9	1.6	149.9	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LC Tribal 2-36D-45 TGT	0.00	0.00	3,877.0	149.9	1.6	11,093,109.08	1,949,416.79	40° 5' 42.440 N	110° 23' 46.900 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Point										



**Payzone Directional**  
Planning Report



<b>Database:</b>	EDM 5000.1 Single User Db	<b>Local Co-ordinate Reference:</b>	Well LC Tribal 2-36D-45
<b>Company:</b>	Bill Barrett Corporation	<b>TVD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Project:</b>	Fort Duchesne	<b>MD Reference:</b>	LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)
<b>Site:</b>	SECTION 36 T4S, R5W	<b>North Reference:</b>	True
<b>Well:</b>	LC Tribal 2-36D-45	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,013.0	2,013.0	Green River		0.00		
2,443.3	2,442.0	Base Mod Saline Groundwater		0.00		
2,765.7	2,763.0	Mahogany		0.00		
3,883.4	3,877.0	TGR3		0.00		
4,683.4	4,677.0	Douglas Creek		0.00		
5,061.4	5,055.0	3PT MKR		0.00		
5,449.4	5,443.0	Black Shale Facies		0.00		
5,672.4	5,666.0	Castle Peak		0.00		
6,049.4	6,043.0	Uteland Butte		0.00		
6,117.4	6,111.0	CR 1		0.00		
6,246.4	6,240.0	Wasatch		0.00		
6,393.4	6,387.0	CR 2		0.00		
6,545.4	6,539.0	CR 3		0.00		
6,837.4	6,831.0	CR 4		0.00		
7,089.4	7,083.0	CR 4A		0.00		
7,233.4	7,227.0	CR 5		0.00		
7,233.4	7,227.0	TD		0.00		
7,733.4	7,727.0	APD_TD		0.00		

CONFIDENTIAL  
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Well Name: LC Tribal 2-36D-45  
 Surface Location: SECTION 36 T4S, R5W  
 North American Datum 1983, US State Plane 1983, Utah Southern Zone  
 Ground Elevation: 6295.0  
 +N/-S +E/-W Northing Easting Latitude Longitude Slot  
 0.0 0.0 11092959.19 1949417.00 40° 5' 42.440 N 110° 23' 46.920 W  
 PLAN KB LC Tribal 2-36D-45 @ 6307.0usft (PLAN KB)



Azimuths to True North  
 Magnetic North: 11.07°  
 Magnetic Field  
 Strength: 51944.2snT  
 Dip Angle: 65.69°  
 Date: 7/1/2014  
 Model: IGRF2010

SECTION 36 T4S, R5W  
 LC Tribal 2-36D-45  
 Design #1  
 7:00, July 02 2014

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
LC Tribal 2-36D-45	6295.0	149.9	1.6	11093109.09	1949416.78	40° 5' 42.440 N	110° 23' 46.900 W	

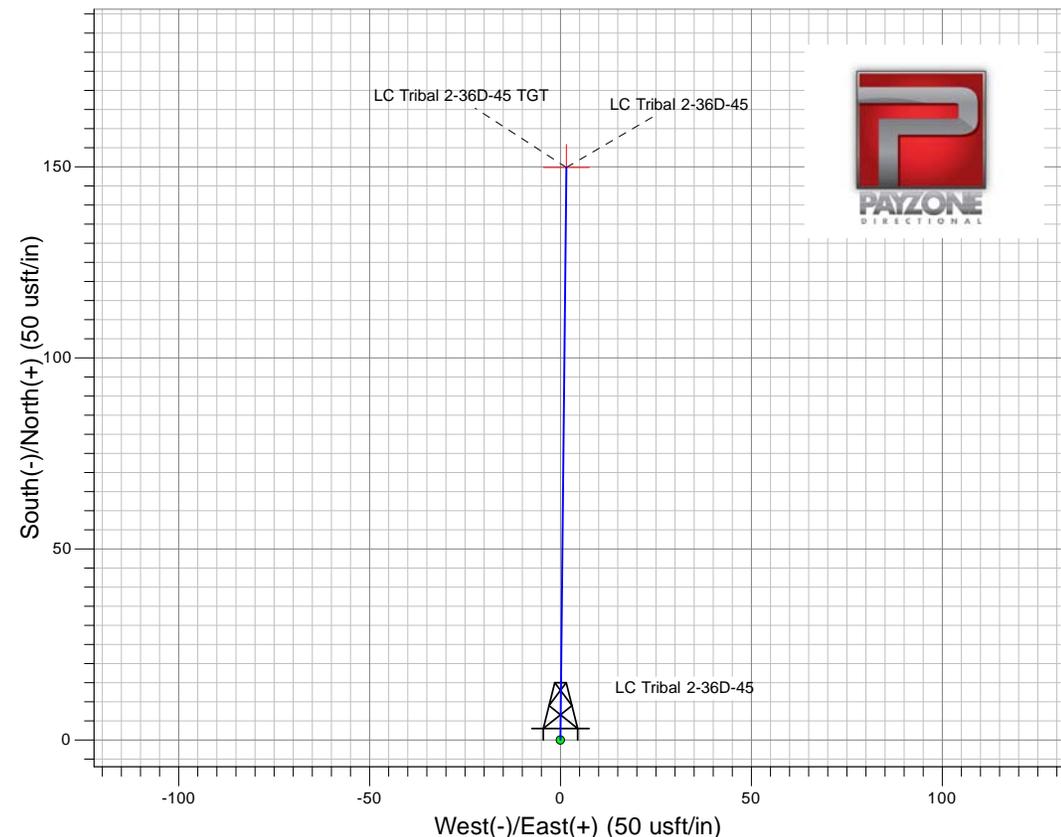
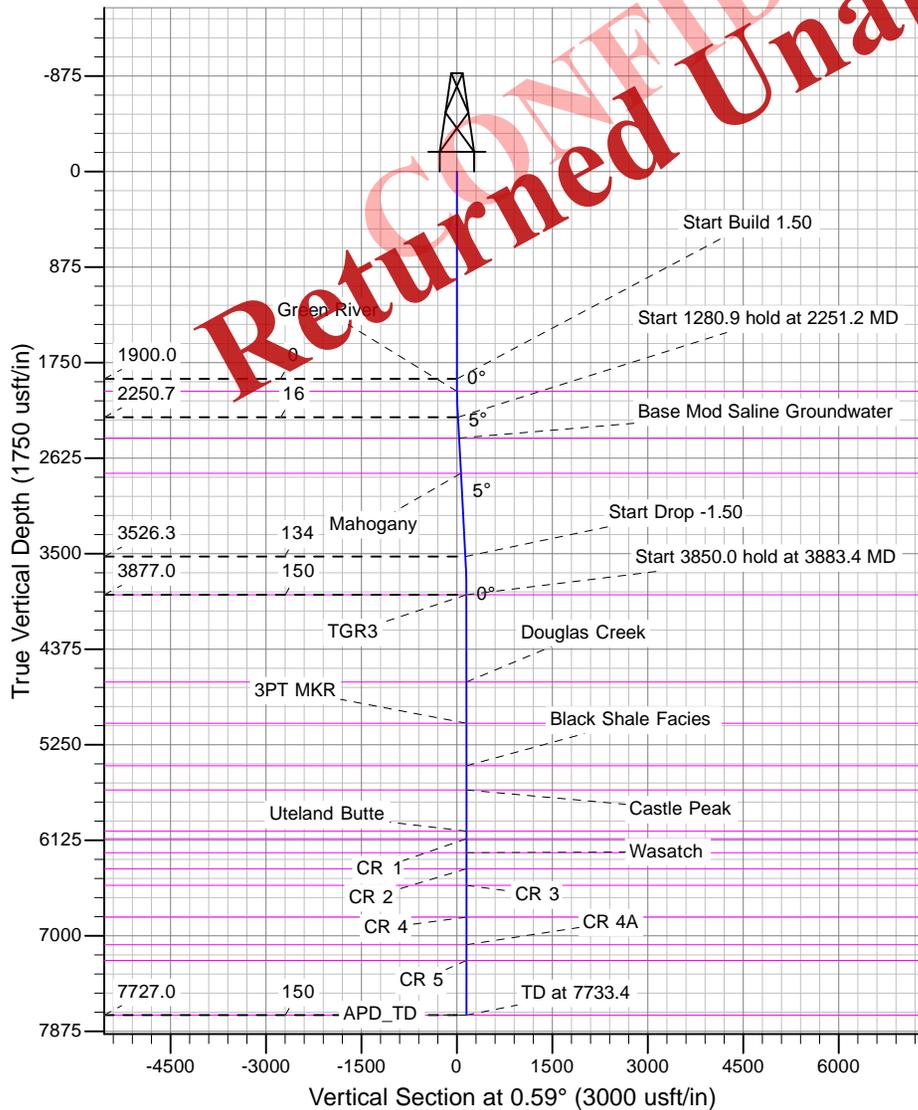
FORMATION TOP DETAILS

TVDepth	MDPath	Formation	DipAngle	DipDir
2013.0	2013.0	Green River	0.00	
2443.3	2443.3	Base Mod Saline Groundwater	0.00	
2765.7	2765.7	Mahogany	0.00	
3877.0	3883.4	TGR3	0.00	
4677.0	4683.4	Douglas Creek	0.00	
5055.0	5061.4	3PT MKR	0.00	
5443.0	5449.4	Bl. Shale Facies	0.00	
5666.0	5672.4	Castle Peak	0.00	
6043.0	6049.4	Uteland Butte	0.00	
6111.0	6117.4	CR 1	0.00	
6240.0	6246.4	Wasatch	0.00	
6387.0	6393.4	CR 2	0.00	
6539.0	6545.4	CR 3	0.00	
6831.0	6837.4	CR 4	0.00	
7083.0	7089.4	CR 4A	0.00	
7227.0	7233.4	CR 5	0.00	
7227.0	7233.4	TD	0.00	
7727.0	7733.4	APD_TD	0.00	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1900.0	0.00	0.00	1900.0	0.0	0.0	0.00	0.00	0.0	
3	2251.2	5.27	0.59	2250.7	16.1	0.2	1.50	0.59	16.1	
4	3532.2	5.27	0.59	3526.3	133.7	1.4	0.00	0.00	133.8	
5	3883.4	0.00	0.00	3877.0	149.9	1.6	1.50	180.00	149.9	LC Tribal 2-36D-45 TGT
6	7733.4	0.00	0.00	7727.0	149.9	1.6	0.00	0.00	149.9	

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 Returned Unapproved



Received: July 15, 2014

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

BILL BARRETT CORPORATION

Set Marked Stone, Pile of Stones

5/8" Rebar, N/S Fence, Pile of Stones

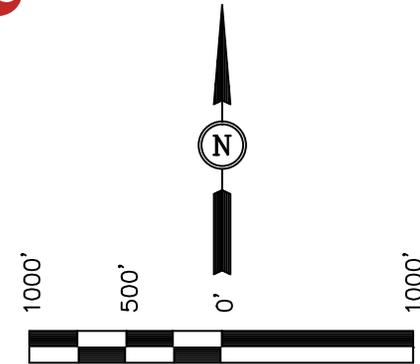
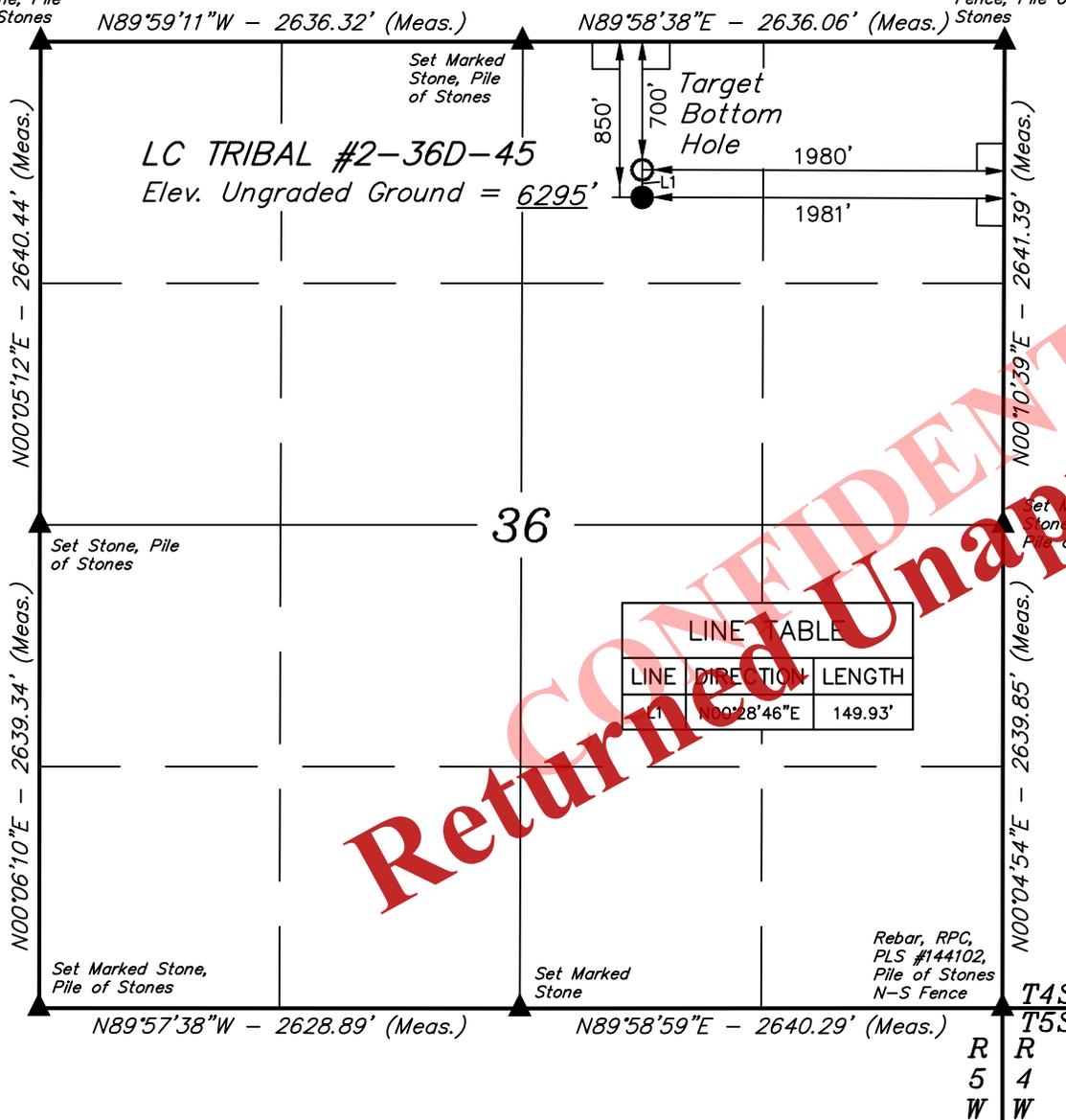
Well location, LC TRIBAL #2-36D-45, located as shown in the NW 1/4 NE 1/4 of Section 36, T4S, R5W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

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

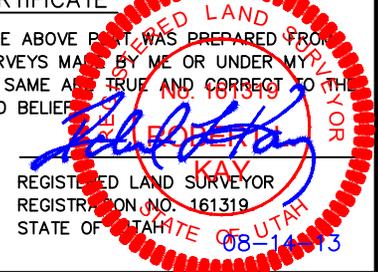
BASIS OF BEARINGS

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



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.



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

LEGEND:

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

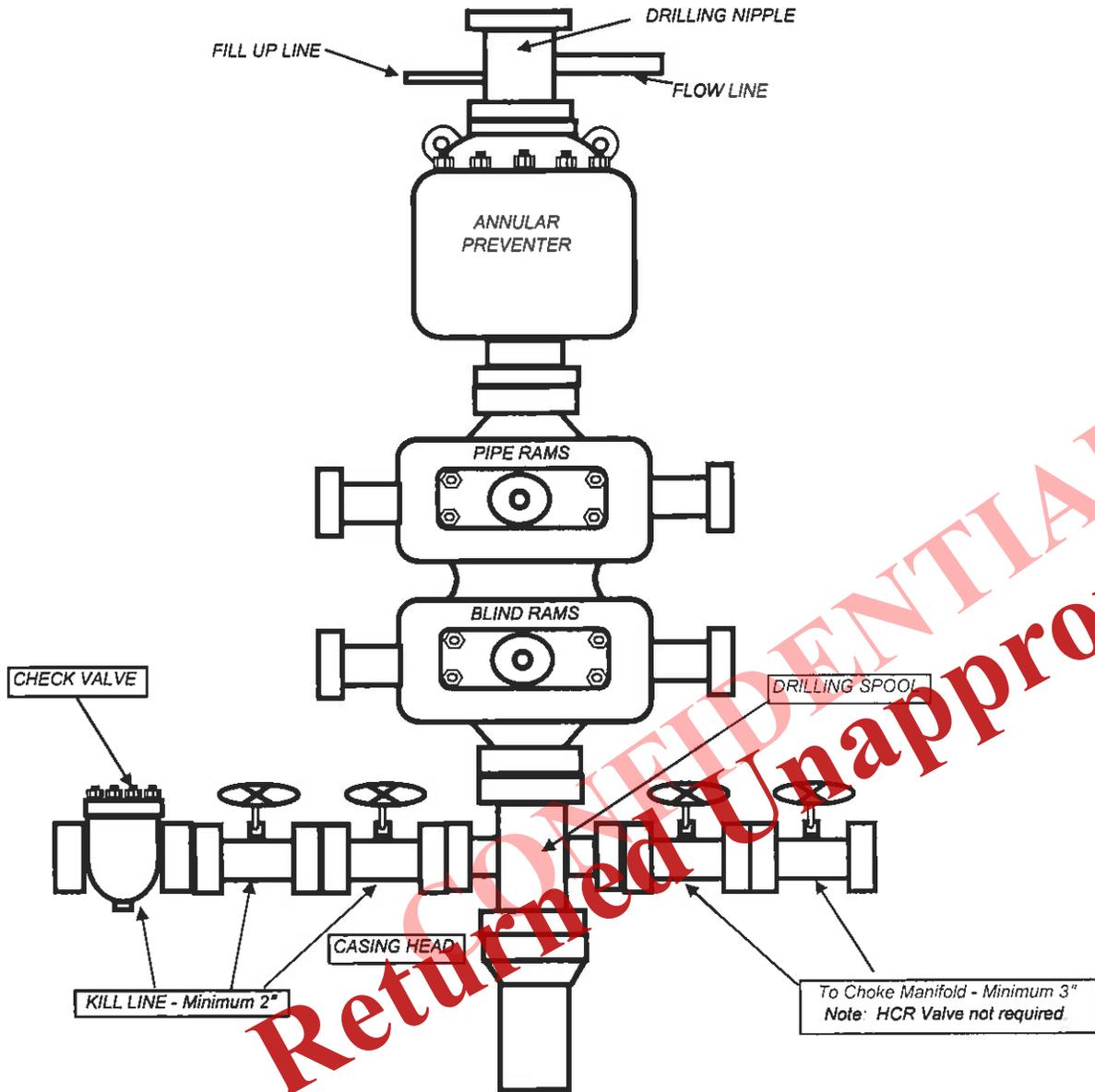
NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°05'42.44" (40.095122)	LATITUDE = 40°05'40.96" (40.094711)
LONGITUDE = 110°23'46.90" (110.396361)	LONGITUDE = 110°23'46.92" (110.396367)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°05'42.59" (40.095164)	LATITUDE = 40°05'41.10" (40.094750)
LONGITUDE = 110°23'44.35" (110.395653)	LONGITUDE = 110°23'44.36" (110.395656)

SCALE 1" = 1000'	DATE SURVEYED: 07-23-13	DATE DRAWN: 07-25-13
PARTY N.F. C.I. B.D.H.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE BILL BARRETT CORPORATION	

Received: July 15, 2014

# BILL BARRETT CORPORATION

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





June 11, 2014

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

Re: Directional Drilling R649-3-11  
**Lake Canyon Area #2-36D-45 LC Tribal Well**  
Surface: 850' FNL & 1,981' FEL, NWNE, 36-T4S-R5W, USM  
Bottom Hole: 700' FNL & 1,980' FEL, NWNE, 36-T4S-R5W, USM  
Duchesne County, Utah

Dear Ms. Mason,

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

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

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

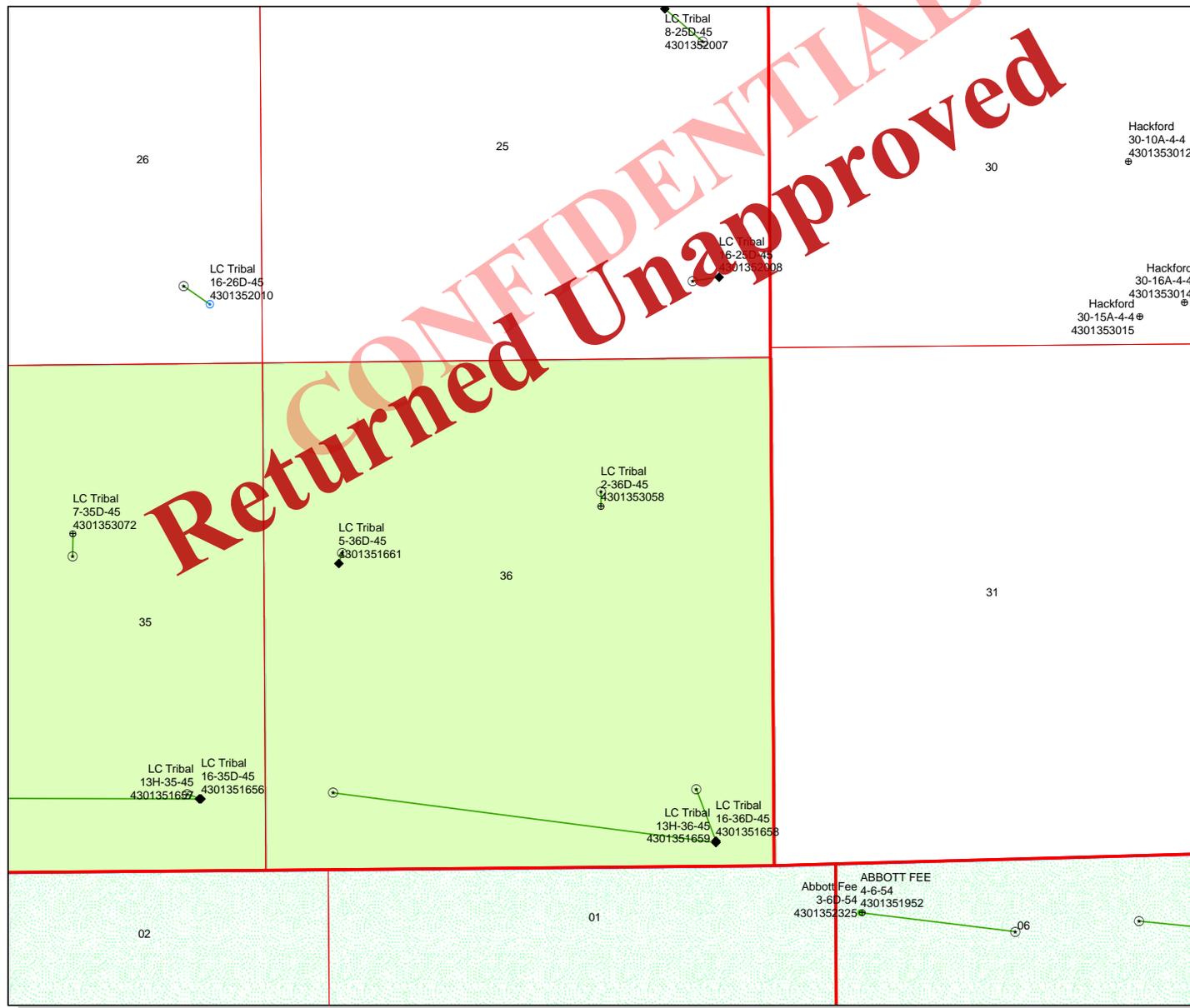
Sincerely,



David Watts  
Landman

**Received: July 15, 2014**

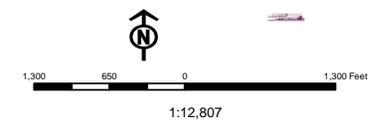
CONFIDENTIAL  
 Returned Unapproved



**API Number: 4301353058**  
**Well Name: LC Tribal 2-36D-45**  
 Township: T04.0S Range: R05.0W Section: 36 Meridian: U  
 Operator: BILL BARRETT CORP

Map Prepared: 7/25/2014  
 Map Produced by Diana Mason

Wells Query		Units	
Status	Symbol	STATUS	Symbol
APD - Approved Permit	◆	ACTIVE	▨
DRL - Spudded (Drilling Commenced)	○	EXPLORATORY	▨
GIW - Gas Injection	⚡	GAS STORAGE	▨
GS - Gas Storage	⚡	NF PP OIL	▨
LOC - New Location	⊕	NF SECONDARY	▨
OPS - Operation Suspended	⊖	PI OIL	▨
PA - Plugged Abandoned	⊗	PP GAS	▨
PGW - Producing Gas Well	⊕	PP GEOTHERML	▨
POW - Producing Oil Well	⊕	PP OIL	▨
SGW - Shut-in Gas Well	⊖	SECONDARY	▨
SOW - Shut-in Oil Well	⊖	TERMINATED	▨
TA - Temp. Abandoned	⊖		
TW - Test Well	○	Fields	
WDW - Water Disposal	⊖	STATUS	
WW - Water Injection Well	⊕	Unknown	▨
WSW - Water Supply Well	●	ABANDONED	▨
		ACTIVE	▨
		COMBINED	▨
		INACTIVE	▨
		STORAGE	▨
		TERMINATED	▨





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*

June 12, 2015

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

Re: Application for Permit to Drill - DUCHESNE County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the LC Tribal 2-36D-45 well, API 43013530580000 that was submitted July 15, 2014 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason  
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah



