

**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 FD 3-29D-2-2						
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 303 312-8134						
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL tfallang@billbarrettcorp.com						
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) <small>fee</small>			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 type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>						
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Vernon Richens						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-545-2535						
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') PO BOX 722, FORT DUCHESNE, ut 84026						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')						
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT 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		300 FNL 1925 FWL		NENW		29		2.0 S		2.0 E		U
Top of Uppermost Producing Zone		660 FNL 1980 FWL		NENW		29		2.0 S		2.0 E		U
At Total Depth		660 FNL 1980 FWL		NENW		29		2.0 S		2.0 E		U
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 646			23. NUMBER OF ACRES IN DRILLING UNIT 640						
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 5510			26. PROPOSED DEPTH MD: 10429 TVD: 10416						
27. ELEVATION - GROUND LEVEL 5076			28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645						
<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	8.7	No Used			0	0.0	0.0
SURF	12.25	9.625	0 - 1500	36.0	J-55 ST&C	9.4	Halliburton Light , Type Unknown			190	3.16	11.0
							Halliburton Premium , Type Unknown			210	1.36	14.8
PROD	7.875	5.5	0 - 10429	17.0	P-110 LT&C	9.5	Unknown			790	2.31	11.0
							Unknown			450	1.42	13.5
<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 checked="" 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 Brady Riley				TITLE Permit Analyst				PHONE 303 312-8115				
SIGNATURE				DATE 05/16/2013				EMAIL briley@billbarrettcorp.com				
API NUMBER ASSIGNED 43047537650000				APPROVAL				 Permit Manager				

**BILL BARRETT CORPORATION  
DRILLING PLAN**

**FD 3-29D-2-2**

NENW, 300' FNL and 1925' FWL, Section 29, T2S-R2E, USB&M (surface hole)

NENW, 660' FNL and 1980' FWL, Section 29, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

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

<u>Formation</u>	<u>Depth – MD</u>	<u>Depth – TVD</u>
Green River	5,490'	5,480'
TGR3	7,822'	6,560'
Douglas Creek	8000'	7,809'
Black Shale	8,499'	7,987'
Castle Peak	8,706'	8,486'
Uteland Butte	8,866'	8,693'
Wasatch	9,432'	8,853'
TD	10,429'	10,416'

Base of Useable Water = 4970'

**3. BOP and Pressure Containment Data**

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1500'	No pressure control required (conductor may be spud with spudder rig)
1500' – 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**

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1500'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

\*The casing program is based on recent wells drilled by Axia in the immediate area.

9-5/8" casing may be preset with a spudder rig. If this occurs, the following equipment shall be in place and operational during air/gas drilling:

Bill Barrett Corporation  
 Drilling Program  
 FD 3-29D-2-2  
 Uintah County, Utah

- Properly lubricated and maintained rotating head
- Spark arresters on engines or water cooled exhaust
- Blooie line discharge 100 feet from well bore and securely anchored
- Straight run on blooie line unless otherwise approved
- Deduster equipment
- All cuttings and circulating medium shall be directed into a reserve or blooie pit
- Float valve above bit
- Automatic igniter or continuous pilot light on the blooie line
- Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the well bore
- Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

#### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 190 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 @ 1,000'
5 1/2" Production Casing	Lead: 790 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,000' Tail: 450 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 @ 8000'

#### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 1500'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
1500' – 5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
5500' – TD	9.4 - 9.5	42 – 56	25 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 wellsite. 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.

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Drilling Program  
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**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 5145 psi\* and maximum anticipated surface pressure equals approximately 2853 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)

**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 from:

- 43-2505, (t37379): McKinnon Ranch Properties, LC
- 43-12345 (F78949): Dale Anderson
- 43-10664 (A38472): W. E. Gene Brown
- 49-1645 (A35800): RN Industries, Inc.
- 49-2336 (t78808): RN Industries, Inc.
- 43-8496 (A53617): A-1 Tank Rental
- 43-10288 (A65273): Nile Chapman (RNI)
- 49-2247 (F76893): Magnum Water Service
- 43-8875 (t38762): Four Star Ranch (c/o David Yeman)

**11. Drilling Schedule**

Location Construction: September 2013  
Spud: September 2013  
Duration: 15 days drilling time  
6 days completion time



# Bill Barrett Corporation

## AURORA CEMENT VOLUMES

**Well Name:** FD 3-29D-2-2

### Surface Hole Data:

Total Depth:	1,500'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	548.1	ft <sup>3</sup>
Lead Fill:	1,000'	
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:	190
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,000'	

# SK's Tail:	210
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### Production Hole Data:

Total Depth:	10,429'
Top of Cement:	1,000'
Top of Tail:	8,000'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1819.2	ft <sup>3</sup>
Lead Fill:	7,000'	
Tail Volume:	631.3	ft <sup>3</sup>
Tail Fill:	2,429'	

### 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:	790
# SK's Tail:	450

<b>FD 3-29D-2-2 Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1000' - 0')</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: 0'
2.0% Bentonite	Calculated Fill: 1,000'
	Volume: 97.61 bbl
	<b>Proposed Sacks: 190 sks</b>
<b>Tail Cement - (TD - 1000')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,000'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8000' - 1000')</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: 1,000'
	Calculated Fill: 7,000'
	Volume: 323.98 bbl
	<b>Proposed Sacks: 790 sks</b>
<b>Tail Cement - (10429' - 8000')</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: 8,000'
	Calculated Fill: 2,429'
	Volume: 112.43 bbl
	<b>Proposed Sacks: 450 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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**T2S, R2E, U.S.B.&M.**

**BILL BARRETT CORPORATION**

Well location, FD #3-29D-2-2, located as shown in the NE 1/4 NW 1/4 of Section 29, T2S, R2E, U.S.B.&M., Uintah County, Utah.

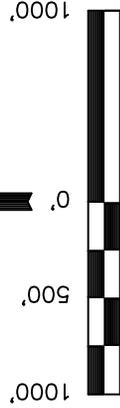
**BASIS OF ELEVATION**

BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

**BASIS OF BEARINGS**

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

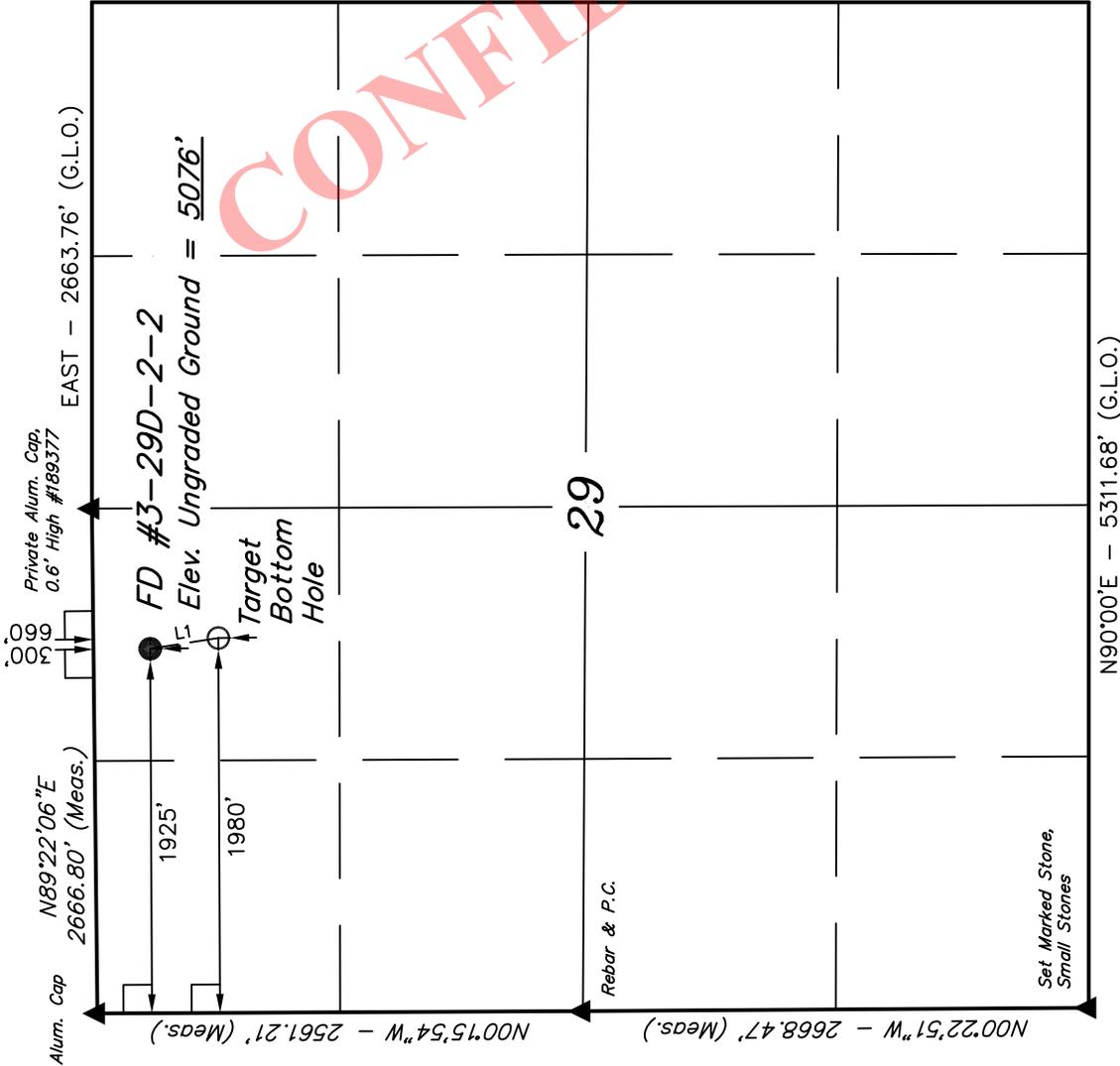
LINE TABLE	
LINE	DIRECTION LENGTH
L1	N08°57'19"W 363.86'



S C A L E  
CERTIFICATE

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

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



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

SCALE	1" = 1000'	DATE SURVEYED:	11-26-12	DATE DRAWN:	12-10-12
PARTY	C.R. A.S. A.D.	REFERENCES	G.L.O. PLAT		
WEATHER	COOL	FILE	BILL BARRETT CORPORATION		

**LEGEND:**

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°17'08.57" (40.285714)	LATITUDE = 40°17'12.12" (40.286700)
LONGITUDE = 109°47'45.18" (109.795883)	LONGITUDE = 109°47'45.92" (109.796089)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°17'08.71" (40.285753)	LATITUDE = 40°17'12.26" (40.286739)
LONGITUDE = 109°47'42.66" (109.795183)	LONGITUDE = 109°47'43.40" (109.795389)

# BILL BARRETT CORPORATION

## FD #3-29D-2-2

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 29, T2S, R2E, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



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

<b>LOCATION PHOTOS</b>	<b>12</b>	<b>10</b>	<b>12</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: C.R.	DRAWN BY: M.B.		REVISED: 00-00-00	

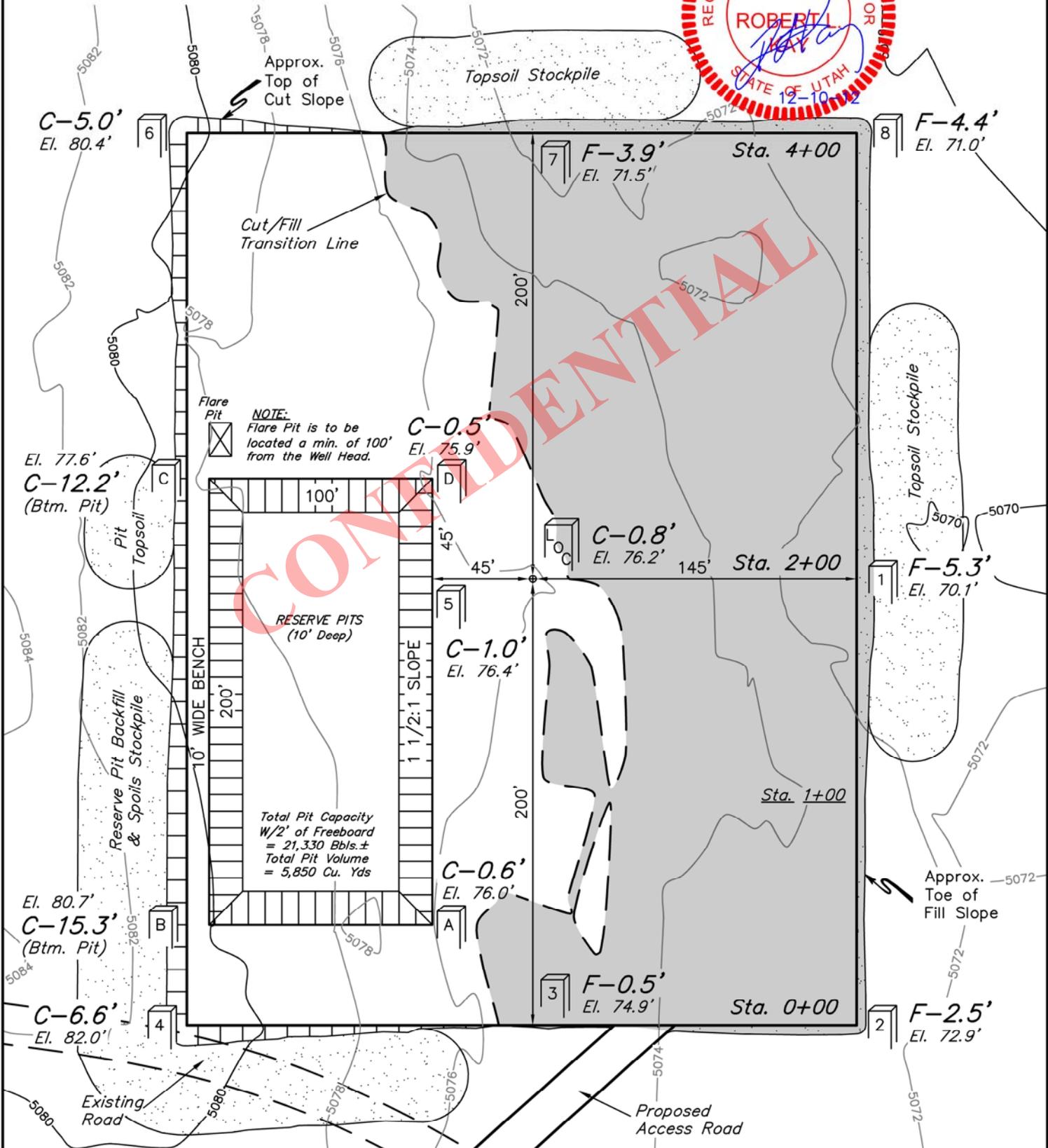
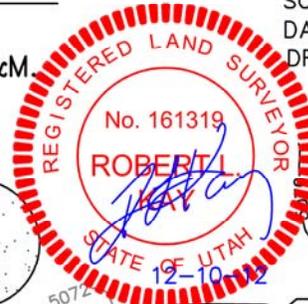
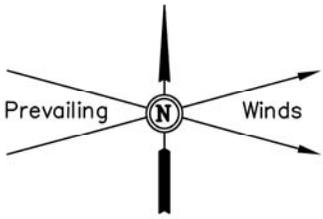
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LOCATION LAYOUT FOR

FD #3-29D-2-2  
SECTION 29, T2S, R2E, U.S.B.&M  
300' FNL 1925' FWL

FIGURE #1

SCALE: 1" = 60'  
DATE: 12-10-12  
DRAWN BY: A.D.



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

RESERVE PITS (10' Deep)

Total Pit Capacity W/2' of Freeboard = 21,330 Bbls.±  
Total Pit Volume = 5,850 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = 5076.2'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5075.4'

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

**BILL BARRETT CORPORATION**

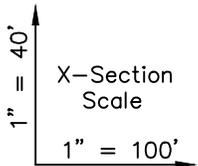
**TYPICAL CROSS SECTIONS FOR**

FD #3-29D-2-2

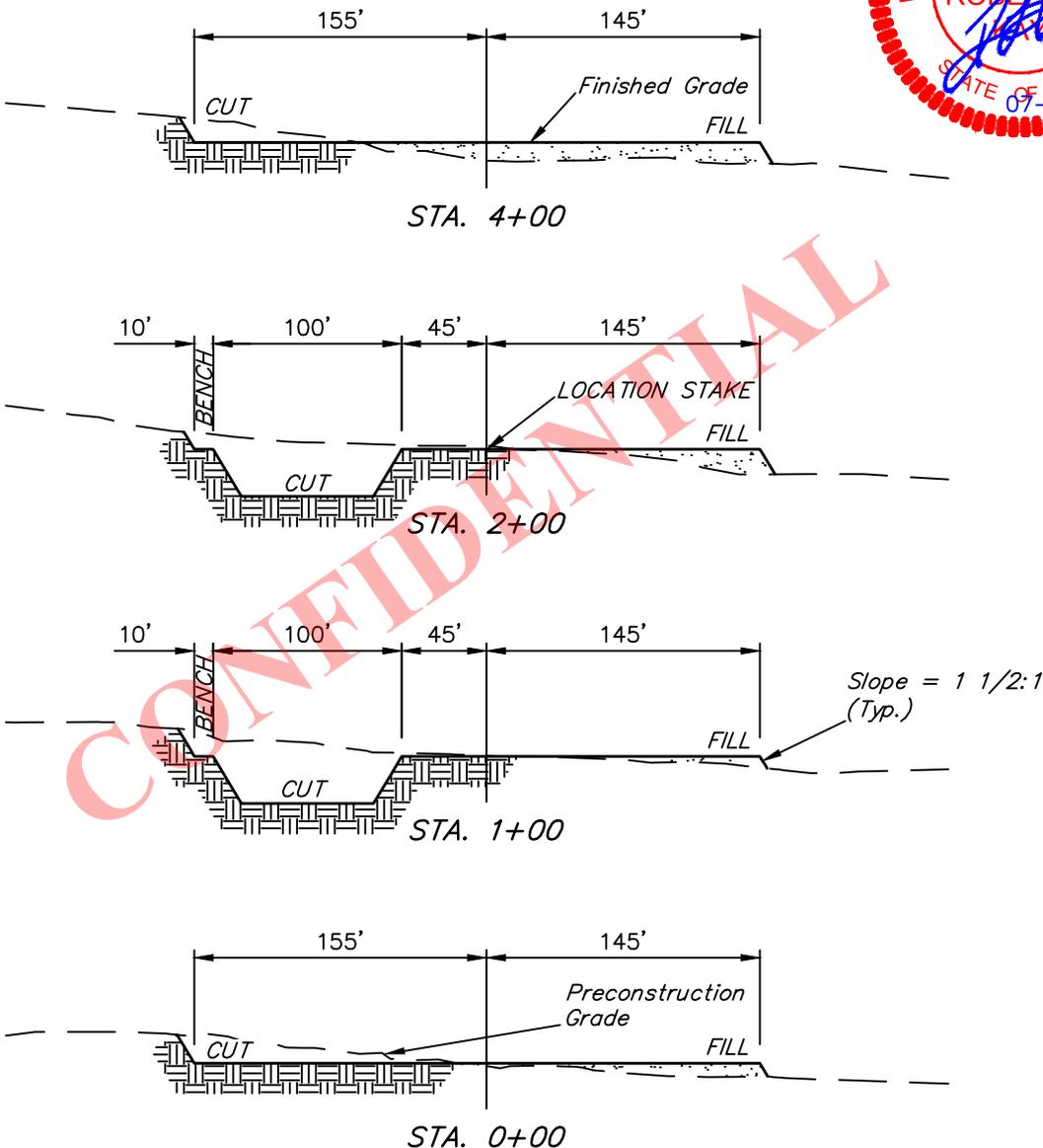
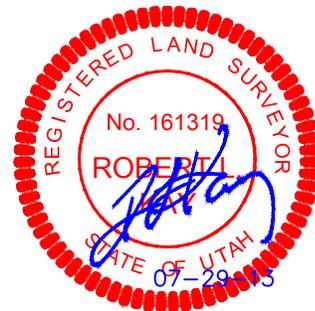
SECTION 29, T2S, R2E, U.S.B.&M.

300' FNL 1925' FWL

**FIGURE #2**



DATE: 12-10-12  
DRAWN BY: A.D.  
REV: 07-19-13 H.K.W.



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**NOTE:**

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

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE	= ± 4.591 ACRES
ACCESS ROAD DISTURBANCE	= ± 4.708 ACRES
PIPELINE DISTURBANCE	= ± 4.031 ACRES
POWER LINE DISTURBANCE	= ± 23.536 ACRES
<b>TOTAL</b>	<b>= ± 36.866 ACRES</b>

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,370 Cu. Yds.
Remaining Location	= 8,980 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,350 CU. YDS.</b>
<b>FILL</b>	<b>= 6,050 CU. YDS.</b>

EXCESS MATERIAL	= 5,300 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,300 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

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

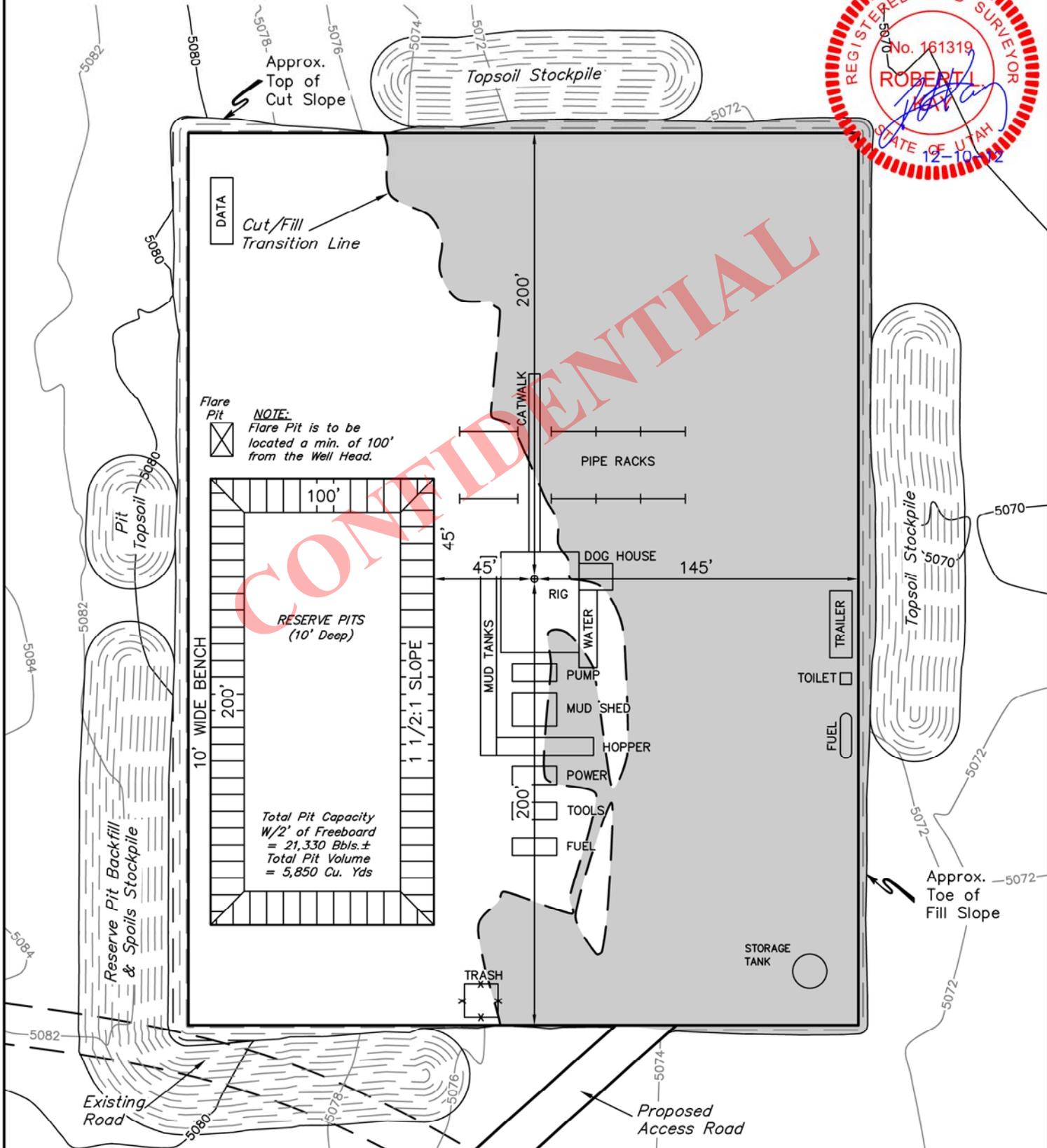
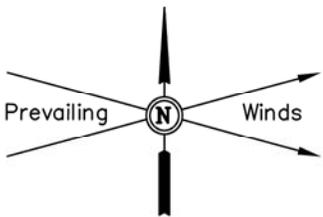
# BILL BARRETT CORPORATION

## TYPICAL RIG LAYOUT FOR

FD #3-29D-2-2  
SECTION 29, T2S, R2E, U.S.B.&M.  
300' FNL 1925' FWL

FIGURE #3

SCALE: 1" = 60'  
DATE: 12-10-12  
DRAWN BY: A.D.



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

**CONFIDENTIAL**

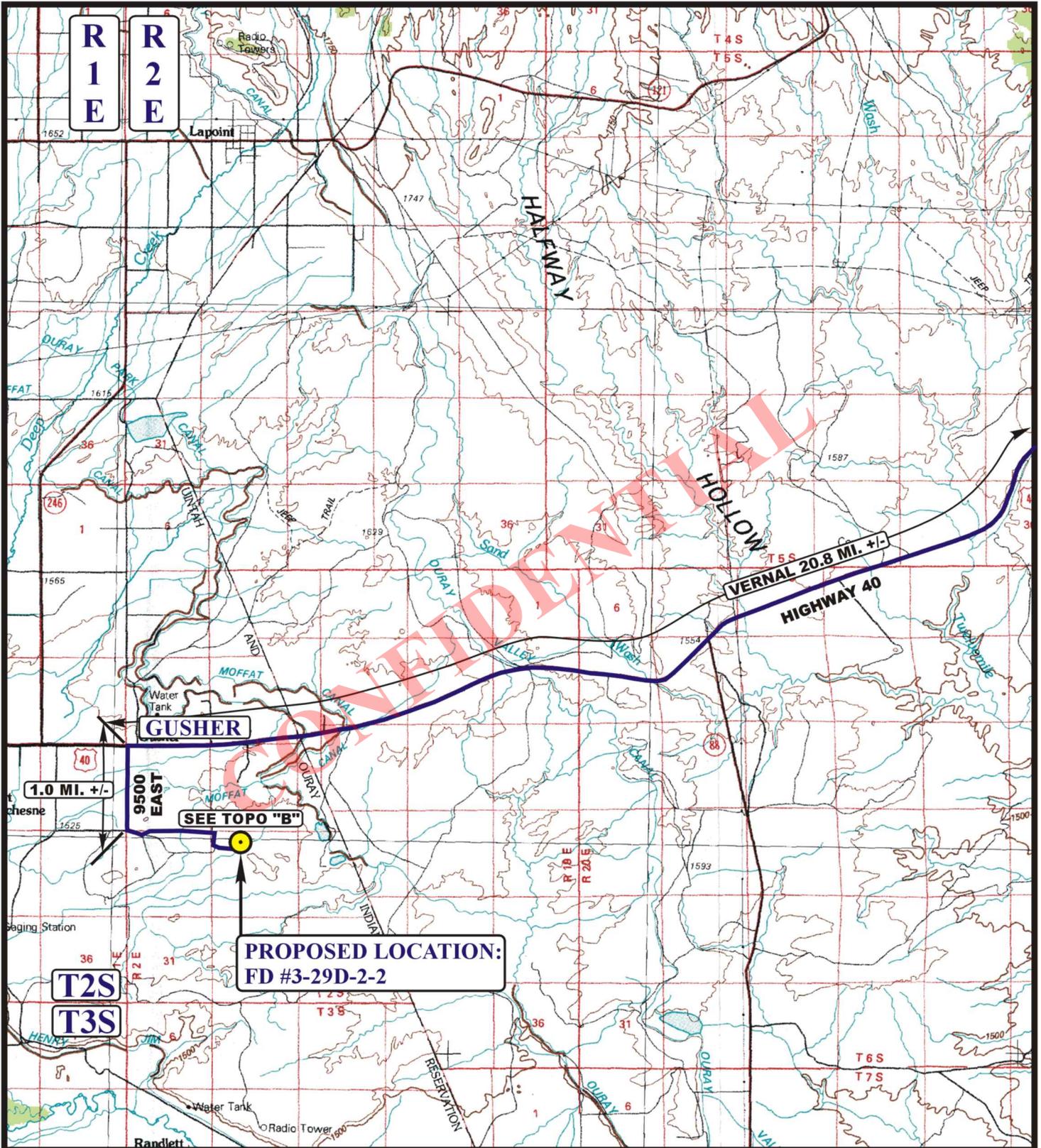
Total Pit Capacity  
W/2' of Freeboard  
= 21,330 Bbls.±  
Total Pit Volume  
= 5,850 Cu. Yds

**BILL BARRETT CORPORATION**  
**FD #3-29D-2-2**  
**SECTION 29, T2S, R2E, U.S.B.&M.**

PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN WESTERLY DIRECTION FROM VERNAL, UTAH ALONG HIGHWAY 40 APPROXIMATELY 20.8 MILES TO THE JUNCTION OF THIS ROAD AND 9500 EAST TO THE SOUTH; TURN LEFT AND PROCEED IN SOUTHERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTERLY, THEN NORTHEASTERLY, THEN EASTERLY, THEN SOUTHERLY, THEN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 6,892' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 23.3 MILES.

CONFIDENTIAL



**LEGEND:**

 **PROPOSED LOCATION**



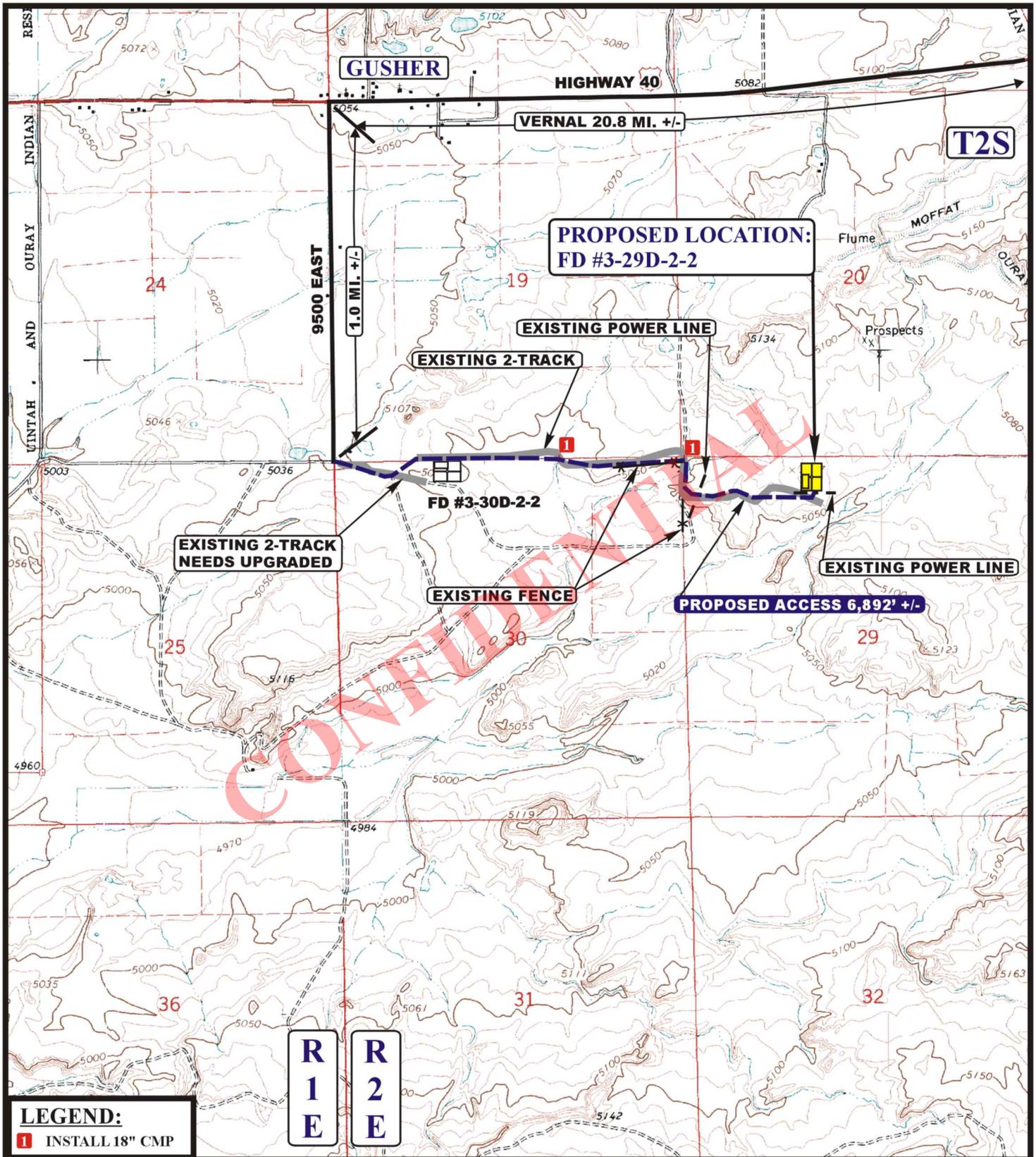
**BILL BARRETT CORPORATION**

**FD #3-29D-2-2**  
**SECTION 29, T2S, R2E, U.S.B.&M.**  
**300' FNL 1925' FWL**



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

<b>ACCESS ROAD MAP</b>	<b>12</b>	<b>10</b>	<b>12</b>	<b>A TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1:100,000	DRAWN BY: M.B.		REVISED: 00-00-00	



**LEGEND:**  
 INSTALL 18" CMP

**R  
1  
E**    **R  
2  
E**

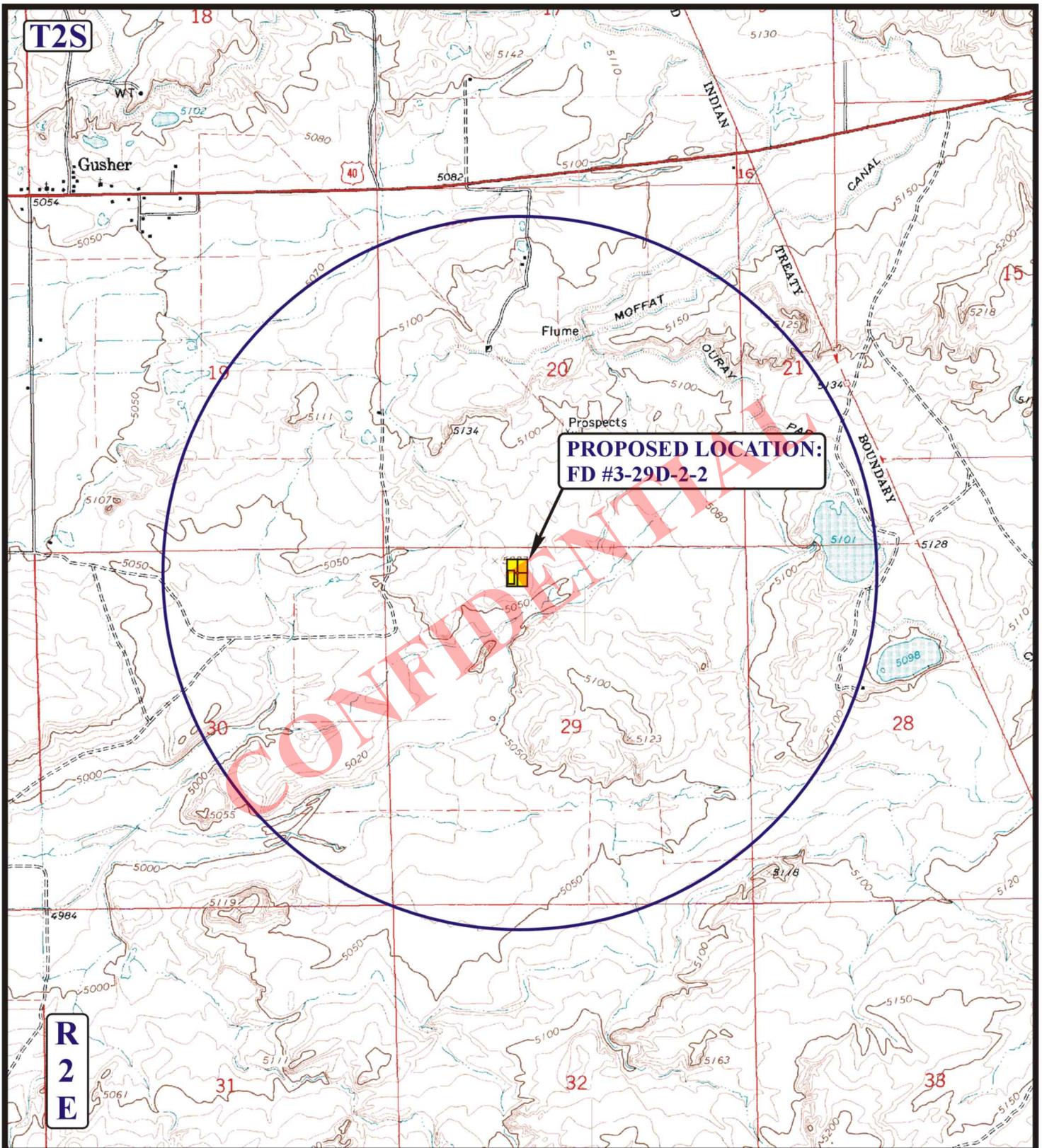
**LEGEND:**  
 \_\_\_\_\_ EXISTING ROAD  
 - - - - - PROPOSED ACCESS ROAD  
 - - - - - EXISTING POWER LINE  
 - - - - - EXISTING 2-TRACK NEEDS UPGRADED  
 \* \* \* \* \* EXISTING FENCE



**BILL BARRETT CORPORATION**  
 FD #3-29D-2  
 SECTION 29, T2S, R2E, U.S.B.&M.  
 300' FNL 1925' FWL

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

**ACCESS ROAD MAP**    12 10 12  
 MONTH DAY YEAR  
 SCALE: 1" = 2000'    DRAWN BY: M.B.    REV: 07-23-13 S.O.    **B TOPO**



**PROPOSED LOCATION:  
FD #3-29D-2-2**

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**LEGEND:**

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



**BILL BARRETT CORPORATION**

**FD #3-29D-2-2**  
**SECTION 29, T2S, R2E, U.S.B.&M.**  
**300' FNL 1925' FWL**

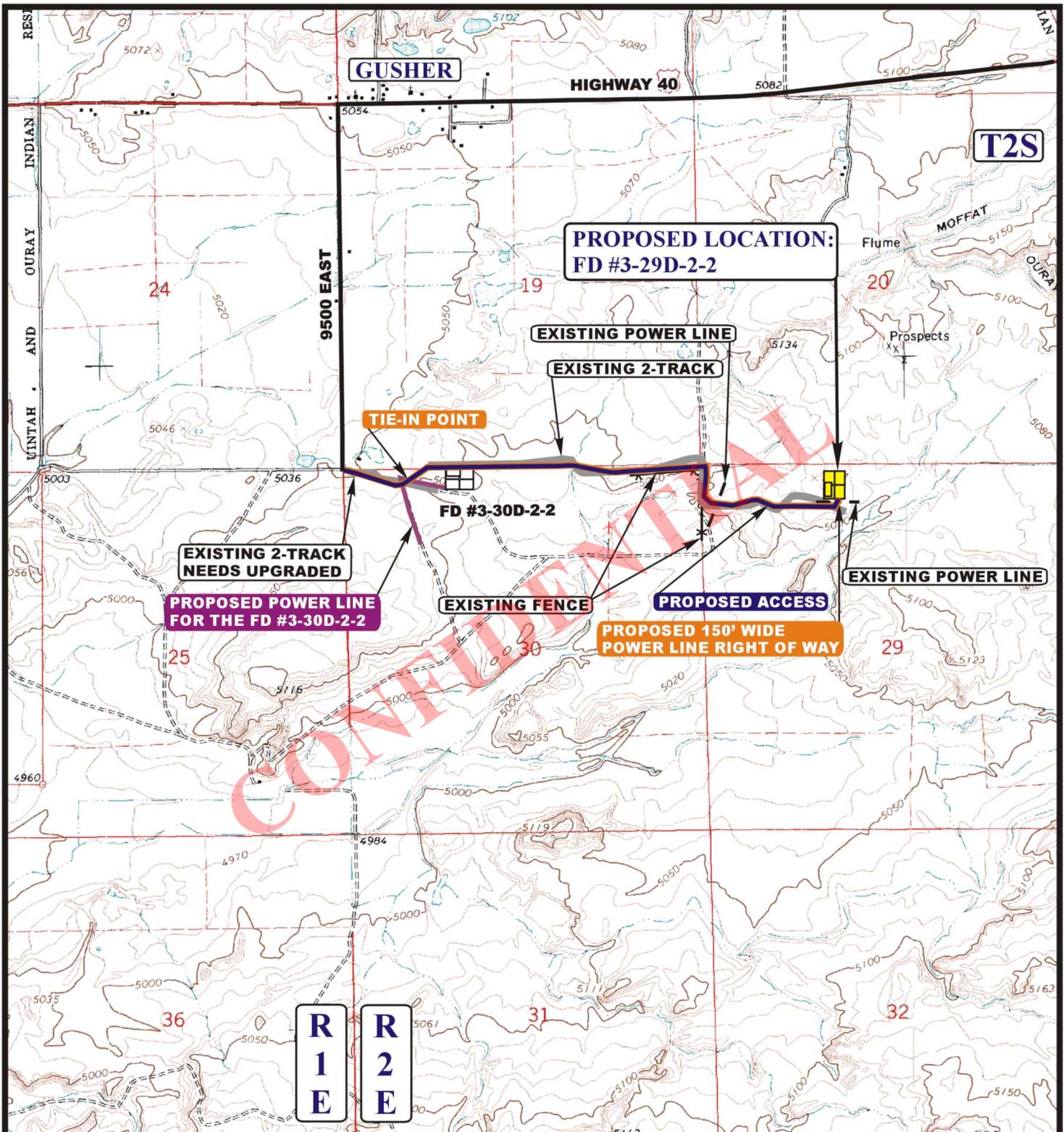


**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

**TOPOGRAPHIC** 12 10 12  
**MAP** MONTH DAY YEAR  
 SCALE: 1" = 2000' DRAWN BY: M.B. REVISED: 00-00-00







APPROXIMATE TOTAL POWER LINE DISTANCE = 6,892' +/-

**LEGEND:**

	PROPOSED ACCESS ROAD
	PROPOSED POWER LINE
	EXISTING POWER LINE
	EXISTING 2-TRACK

**BILL BARRETT CORPORATION**  
 FD #3-29D-2-2  
 SECTION 29, T2S, R2E, U.S.B.&M.  
 300' FNL 1925' FWL



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

**TOPOGRAPHIC MAP** 01 09 13  
 MONTH DAY YEAR  
 SCALE: 1" = 1000' DRAWN BY: M.B. REV: 07-23-13 S.O. **1**  
 TOPO

# **BILL BARRETT CORP**

**UINTAH COUNTY**

**FD 3-29D-2-2**

**FD 3-29D-2-2**

**Wellbore #1**

**Plan: Design #1**

## **Standard Planning Report**

**22 April, 2013**

**CONFIDENTIAL**



SITE DETAILS: FD 3-29D-2  
Fort Duchesne

Site Latitude: 40° 17' 12.260 N  
Site Longitude: 109° 47' 43.400 W

**COMPANY DETAILS: BILL BARRETT CORP**

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

Positional Uncertainty: 0.0  
Convergence: 1.12  
Local North: True

**WELL DETAILS: FD 3-29D-2-2**

Ground Level: 5075.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	-12310.94	2475593.68	40° 17' 12.260 N	109° 47' 43.400 W	

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

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
FD 3-29D-2-2 BTV	7000.0	-359.2	57.5	40° 17' 8.711 N	109° 47' 42.659 W	Rectangle (Sides: L200.0 W200.0)
FD 3-29D-2-2 PBHL	10416.0	-359.2	57.5	40° 17' 8.711 N	109° 47' 42.659 W	Rectangle (Sides: L200.0 W200.0)

**SECTION DETAILS**

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	1870.5	4.06	170.91	1870.2	-9.5	1.5	1.50	170.91	9.6	
4	6742.2	4.06	170.91	6729.8	-349.8	56.0	0.00	0.00	354.2	
5	7012.7	0.00	0.00	7000.0	-359.2	57.5	1.50	180.00	363.8	FD 3-29D-2-2 BTV
6	10428.7	0.00	0.00	10416.0	-359.2	57.5	0.00	0.00	363.8	FD 3-29D-2-2 PBHL

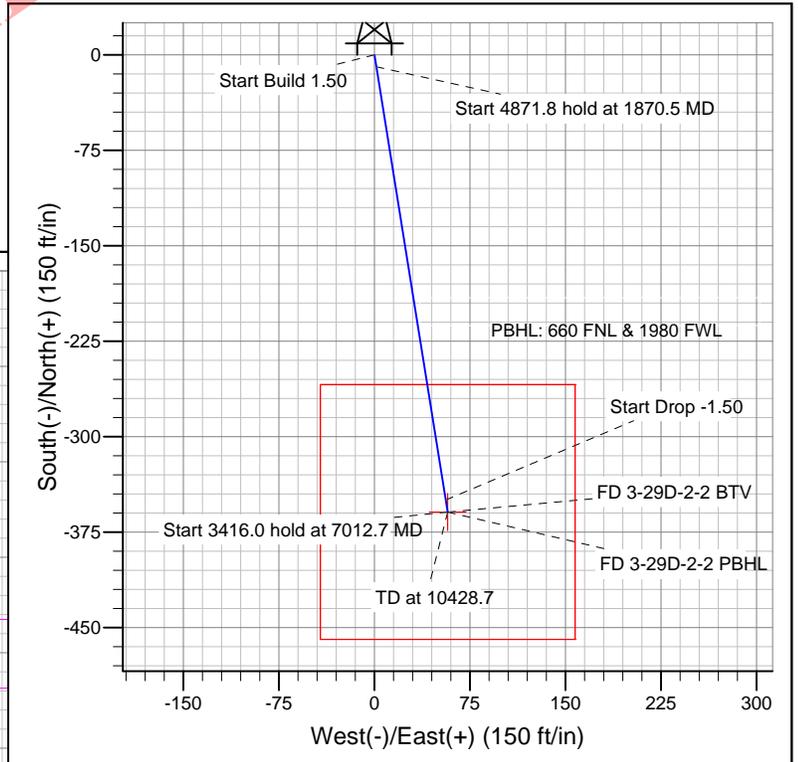
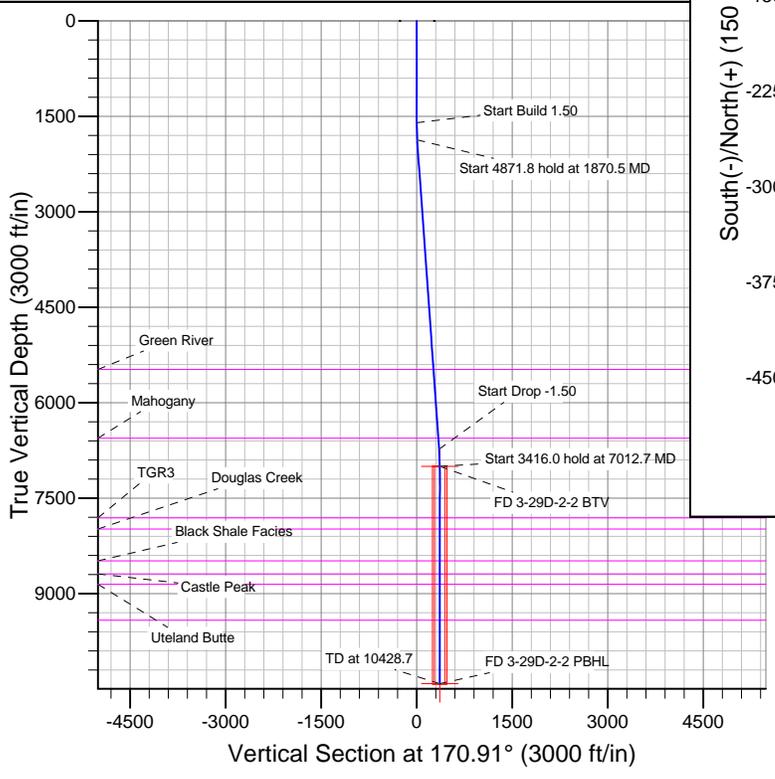
**FORMATION TOP DETAILS**

TVDPath	MDPath	Formation
5480.0	5489.3	Green River
6560.0	6572.0	Mahogany
7809.0	7821.7	TGR3
7987.0	7999.7	Douglas Creek
8486.0	8498.7	Black Shale Facies
8693.0	8705.7	Castle Peak
8853.0	8865.7	Uteland Butte
9419.0	9431.7	Wasatch

**CASING DETAILS**

No casing data is available

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Azimuths to True North  
Magnetic North: 11.01°

Magnetic Field  
Strength: 52299.1snT  
Dip Angle: 66.00°  
Date: 4/19/2013  
Model: IGRF2010

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Site FD 3-29D-2-2
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Project:</b>	UINTAH COUNTY	<b>MD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Site:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Well:</b>	FD 3-29D-2-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

<b>Project</b>	UINTAH COUNTY		
<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 North 4301		

<b>Site</b>	FD 3-29D-2-2				
<b>Site Position:</b>		<b>Northing:</b>	-12,310.93 ft	<b>Latitude:</b>	40° 17' 12.260 N
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,475,593.68 ft	<b>Longitude:</b>	109° 47' 43.400 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	"	<b>Grid Convergence:</b>	1.12 °

<b>Well</b>	FD 3-29D-2-2					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	-12,310.94 ft	<b>Latitude:</b>	40° 17' 12.260 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,475,593.68 ft	<b>Longitude:</b>	109° 47' 43.400 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	ft	<b>Ground Level:</b>	5,075.0 ft

<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</b>
	IGRF2010	4/19/2013	(°)	(°)	(nT)
			11.01	66.00	52,299

<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)</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Direction</b>
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	170.91

<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	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,870.5	4.06	170.91	1,870.2	-9.5	1.5	1.50	1.50	0.00	170.91	
6,742.2	4.06	170.91	6,729.8	-349.8	56.0	0.00	0.00	0.00	0.00	
7,012.7	0.00	0.00	7,000.0	-359.2	57.5	1.50	-1.50	0.00	180.00	FD 3-29D-2-2 BTV
10,428.7	0.00	0.00	10,416.0	-359.2	57.5	0.00	0.00	0.00	0.00	FD 3-29D-2-2 PBHL

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Site FD 3-29D-2-2
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Project:</b>	UINTAH COUNTY	<b>MD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Site:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Well:</b>	FD 3-29D-2-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<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
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
<b>Start Build 1.50</b>									
1,700.0	1.50	170.91	1,700.0	-1.3	0.2	1.3	1.50	1.50	0.00
1,800.0	3.00	170.91	1,799.9	-5.2	0.8	5.2	1.50	1.50	0.00
1,870.5	4.06	170.91	1,870.2	-9.5	1.5	9.6	1.50	1.50	0.00
<b>Start 4871.8 hold at 1870.5 MD</b>									
1,900.0	4.06	170.91	1,899.7	-11.5	1.8	11.7	0.00	0.00	0.00
2,000.0	4.06	170.91	1,999.4	-18.5	3.0	18.7	0.00	0.00	0.00
2,100.0	4.06	170.91	2,099.2	-25.5	4.1	25.8	0.00	0.00	0.00
2,200.0	4.06	170.91	2,198.9	-32.5	5.2	32.9	0.00	0.00	0.00
2,300.0	4.06	170.91	2,298.7	-39.5	6.3	40.0	0.00	0.00	0.00
2,400.0	4.06	170.91	2,398.4	-46.5	7.4	47.0	0.00	0.00	0.00
2,500.0	4.06	170.91	2,498.2	-53.4	8.5	54.1	0.00	0.00	0.00
2,600.0	4.06	170.91	2,597.9	-60.4	9.7	61.2	0.00	0.00	0.00
2,700.0	4.06	170.91	2,697.7	-67.4	10.8	68.3	0.00	0.00	0.00
2,800.0	4.06	170.91	2,797.4	-74.4	11.9	75.3	0.00	0.00	0.00
2,900.0	4.06	170.91	2,897.2	-81.4	13.0	82.4	0.00	0.00	0.00
3,000.0	4.06	170.91	2,996.9	-88.4	14.1	89.5	0.00	0.00	0.00
3,100.0	4.06	170.91	3,096.7	-95.4	15.3	96.6	0.00	0.00	0.00
3,200.0	4.06	170.91	3,196.4	-102.3	16.4	103.6	0.00	0.00	0.00
3,300.0	4.06	170.91	3,296.2	-109.3	17.5	110.7	0.00	0.00	0.00
3,400.0	4.06	170.91	3,395.9	-116.3	18.6	117.8	0.00	0.00	0.00
3,500.0	4.06	170.91	3,495.7	-123.3	19.7	124.9	0.00	0.00	0.00
3,600.0	4.06	170.91	3,595.4	-130.3	20.8	131.9	0.00	0.00	0.00
3,700.0	4.06	170.91	3,695.2	-137.3	22.0	139.0	0.00	0.00	0.00
3,800.0	4.06	170.91	3,794.9	-144.3	23.1	146.1	0.00	0.00	0.00
3,900.0	4.06	170.91	3,894.7	-151.2	24.2	153.2	0.00	0.00	0.00
4,000.0	4.06	170.91	3,994.4	-158.2	25.3	160.2	0.00	0.00	0.00
4,100.0	4.06	170.91	4,094.2	-165.2	26.4	167.3	0.00	0.00	0.00
4,200.0	4.06	170.91	4,193.9	-172.2	27.6	174.4	0.00	0.00	0.00
4,300.0	4.06	170.91	4,293.7	-179.2	28.7	181.4	0.00	0.00	0.00
4,400.0	4.06	170.91	4,393.4	-186.2	29.8	188.5	0.00	0.00	0.00
4,500.0	4.06	170.91	4,493.2	-193.2	30.9	195.6	0.00	0.00	0.00
4,600.0	4.06	170.91	4,592.9	-200.1	32.0	202.7	0.00	0.00	0.00
4,700.0	4.06	170.91	4,692.7	-207.1	33.1	209.7	0.00	0.00	0.00
4,800.0	4.06	170.91	4,792.4	-214.1	34.3	216.8	0.00	0.00	0.00
4,900.0	4.06	170.91	4,892.2	-221.1	35.4	223.9	0.00	0.00	0.00
5,000.0	4.06	170.91	4,991.9	-228.1	36.5	231.0	0.00	0.00	0.00

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Site FD 3-29D-2-2
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Project:</b>	UINTAH COUNTY	<b>MD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Site:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Well:</b>	FD 3-29D-2-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<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)	
5,100.0	4.06	170.91	5,091.7	-235.1	37.6	238.0	0.00	0.00	0.00	
5,200.0	4.06	170.91	5,191.4	-242.0	38.7	245.1	0.00	0.00	0.00	
5,300.0	4.06	170.91	5,291.2	-249.0	39.8	252.2	0.00	0.00	0.00	
5,400.0	4.06	170.91	5,390.9	-256.0	41.0	259.3	0.00	0.00	0.00	
5,489.3	4.06	170.91	5,480.0	-262.3	42.0	265.6	0.00	0.00	0.00	
<b>Green River</b>										
5,500.0	4.06	170.91	5,490.7	-263.0	42.1	266.3	0.00	0.00	0.00	
5,600.0	4.06	170.91	5,590.4	-270.0	43.2	273.4	0.00	0.00	0.00	
5,700.0	4.06	170.91	5,690.2	-277.0	44.3	280.5	0.00	0.00	0.00	
5,800.0	4.06	170.91	5,789.9	-284.0	45.4	287.6	0.00	0.00	0.00	
5,900.0	4.06	170.91	5,889.7	-290.9	46.6	294.6	0.00	0.00	0.00	
6,000.0	4.06	170.91	5,989.4	-297.9	47.7	301.7	0.00	0.00	0.00	
6,100.0	4.06	170.91	6,089.2	-304.9	48.8	308.8	0.00	0.00	0.00	
6,200.0	4.06	170.91	6,188.9	-311.9	49.9	315.9	0.00	0.00	0.00	
6,300.0	4.06	170.91	6,288.7	-318.9	51.0	322.9	0.00	0.00	0.00	
6,400.0	4.06	170.91	6,388.4	-325.9	52.1	330.0	0.00	0.00	0.00	
6,500.0	4.06	170.91	6,488.2	-332.9	53.3	337.1	0.00	0.00	0.00	
6,572.0	4.06	170.91	6,560.0	-337.9	54.1	342.2	0.00	0.00	0.00	
<b>Mahogany</b>										
6,600.0	4.06	170.91	6,587.9	-339.8	54.4	344.2	0.00	0.00	0.00	
6,700.0	4.06	170.91	6,687.7	-346.8	55.5	351.2	0.00	0.00	0.00	
6,742.2	4.06	170.91	6,729.8	-349.8	56.0	354.2	0.00	0.00	0.00	
<b>Start Drop -1.50</b>										
6,800.0	3.19	170.91	6,787.5	-353.4	56.5	357.9	1.50	-1.50	0.00	
6,900.0	1.69	170.91	6,887.4	-357.6	57.2	362.1	1.50	-1.50	0.00	
7,000.0	0.19	170.91	6,987.3	-359.2	57.5	363.8	1.50	-1.50	0.00	
7,012.7	0.00	0.00	7,000.0	-359.2	57.5	363.8	1.50	-1.50	0.00	
<b>Start 3416.0 hold at 7012.7 MD</b>										
7,100.0	0.00	0.00	7,087.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,187.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,287.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,387.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,487.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,587.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,687.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,787.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,821.7	0.00	0.00	7,809.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>TGR3</b>										
7,900.0	0.00	0.00	7,887.3	-359.2	57.5	363.8	0.00	0.00	0.00	
7,999.7	0.00	0.00	7,987.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>Douglas Creek</b>										
8,000.0	0.00	0.00	7,987.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,087.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,187.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,287.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,387.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,498.7	0.00	0.00	8,486.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>Black Shale Facies</b>										
8,500.0	0.00	0.00	8,487.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,587.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,687.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,705.7	0.00	0.00	8,693.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>Castle Peak</b>										

**Bill Barrett Corp**

Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Site FD 3-29D-2-2
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Project:</b>	UINTAH COUNTY	<b>MD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Site:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Well:</b>	FD 3-29D-2-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,800.0	0.00	0.00	8,787.3	-359.2	57.5	363.8	0.00	0.00	0.00	
8,865.7	0.00	0.00	8,853.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>Uteland Butte</b>										
8,900.0	0.00	0.00	8,887.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,987.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,087.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,187.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,287.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,387.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,431.7	0.00	0.00	9,419.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>Wasatch</b>										
9,500.0	0.00	0.00	9,487.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,587.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,687.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,787.3	-359.2	57.5	363.8	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,887.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,000.0	0.00	0.00	9,987.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,087.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,187.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,287.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,387.3	-359.2	57.5	363.8	0.00	0.00	0.00	
10,428.7	0.00	0.00	10,416.0	-359.2	57.5	363.8	0.00	0.00	0.00	
<b>TD at 10428.7</b>										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
FD 3-29D-2-2 PBHL - hit/miss target - Shape	0.00	0.00	10,416.0	-359.2	57.5	-12,668.96	2,475,658.19	40° 17' 8.711 N	109° 47' 42.659 W	
- plan hits target - Rectangle (sides W200.0 H200.0 D0.0)										
FD 3-29D-2-2 BTV - plan hits target - Shape	0.00	0.00	7,000.0	-359.2	57.5	-12,668.96	2,475,658.19	40° 17' 8.711 N	109° 47' 42.659 W	
- plan hits target - Rectangle (sides W200.0 H200.0 D3,419.0)										

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,489.3	5,480.0	Green River		0.00		
6,572.0	6,560.0	Mahogany		0.00		
7,821.7	7,809.0	TGR3		0.00		
7,999.7	7,987.0	Douglas Creek		0.00		
8,498.7	8,486.0	Black Shale Facies		0.00		
8,705.7	8,693.0	Castle Peak		0.00		
8,865.7	8,853.0	Uteland Butte		0.00		
9,431.7	9,419.0	Wasatch		0.00		

**Bill Barrett Corp**

## Planning Report

<b>Database:</b>	Compass	<b>Local Co-ordinate Reference:</b>	Site FD 3-29D-2-2
<b>Company:</b>	BILL BARRETT CORP	<b>TVD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Project:</b>	UINTAH COUNTY	<b>MD Reference:</b>	KB @ 5090.0ft (Original Well Elev)
<b>Site:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Well:</b>	FD 3-29D-2-2	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	Wellbore #1		
<b>Design:</b>	Design #1		

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,600.0	1,600.0	0.0	0.0	Start Build 1.50
1,870.5	1,870.2	-9.5	1.5	Start 4871.8 hold at 1870.5 MD
6,742.2	6,729.8	-349.8	56.0	Start Drop -1.50
7,012.7	7,000.0	-359.2	57.5	Start 3416.0 hold at 7012.7 MD
10,428.7	10,416.0	-359.2	57.5	TD at 10428.7

CONFIDENTIAL

## SURFACE USE AGREEMENT (FD 3-29D-2-2)

**THIS AGREEMENT** Dated January 7, 2013 by and between \_\_\_\_\_

**Vernon B. Richens and Eva Diane Richens, husband and wife, as joint tenants with full rights of survivorship**

whose address is P. O. Box 722, Ft. Duchesne, UT 84026

Phone # (435-545-2535)

**Bill Barrett Corporation and its Subsidiaries**, whose address is 1099 18<sup>th</sup> Street, #2300, Denver, CO 80202 hereinafter referred to as "Operator".

WITNESSETH:

WHEREAS, Surface Owners represent that they are the owners in fee and in possession of the surface estate for the following described lands in     **Uintah**     County,     **Utah**    , hereinafter referred to as "Lands", to wit:

A tract of land lying in the **S/2SE/4, SE/4SW/4 of Section 19, N/2NW/4 of Section 29 and in Lot 1, NE/4NE/4 of Section 30, Township 2 South, Range 2 East, USM** as further described on Exhibit "A" attached hereto and made a part hereof.

WHEREAS, Operator has or will acquire certain leasehold interests in the oil and gas mineral estate in the Lands and proposes to conduct drilling and subsequent production operations on the Lands; and

WHEREAS, Surface Owners are generally aware of the nature of the operations which may be conducted under oil and gas leases covering the mineral estate of the Lands; and

WHEREAS, the parties believe that it is in their mutual best interest to agree to the amount of damages to be assessed incident to the operations of Operator on the premises in the exploration for, development and production of oil, gas and/or other leasehold substances under the terms of those certain oil and gas leases now owned or which may be acquired by Operator covering portions of the mineral estate of the Lands; and,

WHEREAS, the parties believe that a reasonable estimate can be made of the damages which will result from the exploration, development and production operations contemplated by such oil and gas leases.

NOW, THEREFORE, in consideration of ten dollars and other valuable consideration, the sufficiency of which is hereby acknowledged, the parties agree as follows:

1. Operator has the right of ingress and egress and to the use of those portions of the Lands which it requires for oil and gas exploration, development and production operations, including tank batteries and other production facilities and the transportation of produced substances from the leasehold, and also the right to construct and use roads and pipelines across portions of the Lands. Operator shall pay Surface Owners as liquidated damages the following sum as full settlement and satisfaction of all damages growing out of, incident to, or in connection with the usual and customary exploration, drilling, completion, sidetracking, reworking, equipping and production operations, contemplated by the oil and gas leases covering the Lands, unless otherwise specifically provided herein:

Surface Owners for such additional damage.

b. Powerlines. Grant a Right-of-Way Easement for overhead and/or underground power lines and power line facilities to be exercised by Moon Lake Electric Association, Inc. throughout their service territory.

2. Operator agrees to consult with the surface owners and/or tenant as to all routes of ingress and egress. Prior to the construction of any roads, pipelines, tank battery installations, or installation of any other equipment on the leased premises, Operator shall consult with the surface owners and/or tenant as to the location and direction of same.

3. It is the intention of the parties hereto to cause as little interference with farming operations on the leased premises as reasonably possible, including but specifically not limited to the operation of any pivotal irrigation sprinkler system, or any other irrigation method. If any circular irrigation sprinkler system is in use at the time of initial drilling operations on the leased premises, then any subsequent production equipment, including but specifically not limited to pump jacks, hydraulic lifting equipment, or any other equipment necessary to produce any oil or gas from such well, shall be recessed to such depths, or ramps constructed, so as to allow the continued use of such circular irrigation system.

4. In the event any well hereunder is plugged and abandoned, Operator agrees that Operator will, within a reasonable time, restore Surface Owner's surface estate as near as practical to its original condition found prior to Operator's operations. It is understood and agreed that Surface Owners may elect in writing, prior to cessation of operations of Operator, to have any road constructed under the terms of this Agreement remain upon the property, in which event Operator agrees to leave such road or roads in reasonable condition.

5. Operator is responsible for acquiring all necessary permits, licenses, fees, etc. incident to its operations on the Lands.

6. In the event Surface Owners consider that Operator has not complied with all its obligations hereunder, both express and implied, Surface Owners shall notify Operator in writing, setting out specifically in what respects Operator has breached this contract. Operator shall then have sixty (60) days to meet or commence to meet all or any part of the breaches alleged by Surface Owners. The service of said notice shall be precedent to the bringing of any action by Surface Owners for any cause, and no such action shall be brought until the lapse of sixty (60) days after service of such notice on Operator. In the event of litigation, the prevailing party's reasonable attorney's fees will be paid by the opposing party.

7. Operator shall be responsible and shall remain liable for any environmental problems on the subject lands which are caused by or through its operations. To the extent that any such claims are asserted, Operator will be responsible for any remediation required as provided by state regulations. This assumption of liability, however, does not include any third-party operations on the subject lands or any Surface Owners actions which could cause environmental problems but is limited solely to the actions of Operator. Operator hereby indemnifies and holds harmless Surface Owners from any and all environmental problems it causes on the Lands.

8. In the event Surface Owners own less than the entire fee interest in the Lands, then any payment stated herein shall be proportionately reduced to the interest owned.

9. This Agreement shall remain in full force and effect from the date hereof and for so long thereafter as Operator's oil and gas operations affecting the Lands are in effect.

10. When the word "Operator" is used in this Agreement, it shall also mean the successors and assigns of Operator, including but not limited to its employees and officers, agents, affiliates, contractors, subcontractors and/or purchasers.

11. This Agreement shall be binding upon and inure to the benefit of the heirs, successors and assigns of the parties.

ADDITIONAL PROVISIONS:

ATTN

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**SURFACE OWNERS:**

Vernon B. Richens  
By: **Vernon B. Richens**

Eva Diane Richens  
By: **Eva Diane Richens**

S

STATE of Utah ACKNOWLEDGEMENT

COUNTY of Uintah

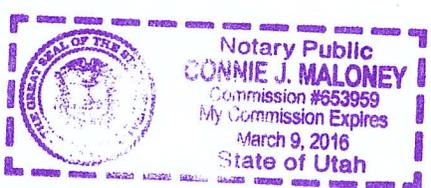
BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 24th day of January, 2013, personally appeared Vernon B. Richens and Eva Diane Richens, husband and wife, as joint tenants with full rights of survivorship, to me known to be the

Identical person(s), described in and who executed the within and foregoing instrument of writing and acknowledged to me that they duly executed same as their free and voluntary act and deed for the uses and purposes therein set forth and in the capacity stated therein.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

My Commission Expires: 3-9-16

Connie Maloney  
Notary Public:





**PIPELINE RIGHT-OF-WAY AGREEMENT**

STATE OF UTAH }  
 } SS  
COUNTY OF UINTAH }

THAT, effective on this 22<sup>nd</sup> day of January, 2013

**Vernon B. Richens and Eva Diane Richens, as joint tenants with full rights of survivorship, whose address is: P O Box 722, Ft. Duchesne, UT 84026**

("GRANTORS"), the receipt and sufficiency of which is hereby acknowledged, does hereby grant to **Aurora Gathering, LLC** of **1099 18<sup>th</sup> Street, #2300, Denver, CO 80202** ("GRANTEE"), its successors or assigns, a right-of-way to construct, maintain and use pipelines along with the right to alter, inspect, repair, replace, change the size of, operate, and remove pipelines and from time to time add additional pipelines or multiple pipelines, drips, valves, cathodic equipment, and all appurtenances convenient for the maintenance and operation of said lines and for the transportation of oil, gas, produced water, or other substances therein, under, on, over and through the premises hereinafter described, and the Grantee is granted the right of ingress and egress, over and across said lands for any purpose necessary or incidental to the operating and maintaining said pipeline or pipelines owned by Grantee.

The said right-of-way shall be located over and across the following described lands owned by the Grantors in **Uintah** County, State of Utah, to-wit:

**Township 2 South, Range 2 East, USM**

**Section 29: A tract of land lying the N/2NW/4, NE/4SW/4 and W/2SE/4**

**Section 30: A tract of land lying in the NE/4NE/4**

**As further described on Exhibit "A" attached hereto and made a part hereof.**

To have and to hold said easements, rights, and right-of-way unto the said Grantee, its successors and assigns.

Grantee to have the right to select, change or alter the routes of all pipelines herein authorized to be laid under, upon, over and through the above described premises. Grantors shall not place anything over or so close to any pipeline or other facility of Grantee as will be likely to interfere with Grantee's access thereto by use of equipment of means customarily employed in the maintenance of pipelines. Grantee to pay for all damage to growing crops, drainage tile and fences of Grantors arising out of the construction or repair of any of the pipelines and facilities herein authorized to be maintained and operated by Grantee. This easement shall not exceed Thirty (30) feet in width for construction and Twenty five (25) feet for the permanent easement. Displaced and disturbed ground to be reseeded at recommended seeding rates per Grantors once cleanup is completed.

provisions of this agreement shall be modified, altered or waived except by written amendment executed by the parties or their representatives as set forth below. This agreement shall not act to modify or diminish operator's rights and privileges under any oil and gas leases owned by Operator covering all or any portion of the above described lands.

For the same consideration, the undersigned agree to account to any party who may be entitled to any portion of the aforementioned sum, and to indemnify and hold harmless **Aurora Gathering, LLC**, its successors and assigns, from any claim by any other party for damages to the above described lands and the improvements and crops and other things situated thereon.

Grantors shall be held harmless from any claim or demand made on the grounds of damage to property or injury to or death of persons, arising out of Grantee's exercise of the rights herein granted.

This agreement shall terminate within six (6) months after cessation of use by Grantee. Following completion of the pipeline, Grantee agrees to restore the surface of said land as nearly as is reasonably practical to its original condition.

This agreement is signed by Grantors and Grantee as of the date of acknowledgment of their signatures below, but is effective for all purposes as of the Effective Date stated above.

This agreement shall be binding upon the successors and assigns of the parties hereto and shall be deemed to be a covenant running with the lands described above.

IN WITNESS WHEREOF, the GRANTORS and GRANTEE herein named have hereunto set their hand and seal this 24<sup>th</sup> day of January, 2013.

**GRANTOR'S:**  
Vernon B. Richens  
**Vernon B. Richens**

Eva Diane Richens  
**Eva Diane Richens**

**GRANTEE:**  
**Aurora Gathering, LLC**  
Huntington T. Walker  
**Huntington T. Walker, Senior Vice President Land**

ACKNOWLEDGEMENT

STATE OF }  
 } :SS  
COUNTY OF }

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 24<sup>th</sup> day of January, 2013, personally appeared **Vernon B. and Eva Diane Richens**, as joint tenants with full right of survivorship, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Connie J. Maloney  
Notary Public

Residing At: Vernal, UT

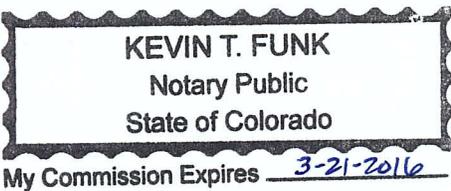


CONFIDENTIAL

ACKNOWLEDGEMENT

STATE OF Colorado )  
 ) SS  
COUNTY OF Denver )

On the 28<sup>th</sup> day of January, 2013, before me the undersigned authority, appeared **Huntington T. Walker**, to me personally known, who, being sworn, did say that they are the Senior Vice President Land for Aurora Gathering, LLC, and that the foregoing instrument was signed in behalf of said partnership and Appearer acknowledged to me that said instrument to be the free act and deed of the partnership.



Kevin Funk  
Notary Public for the State of CO

Residing at Denver, CO

**BILL BARRETT CORPORATION**

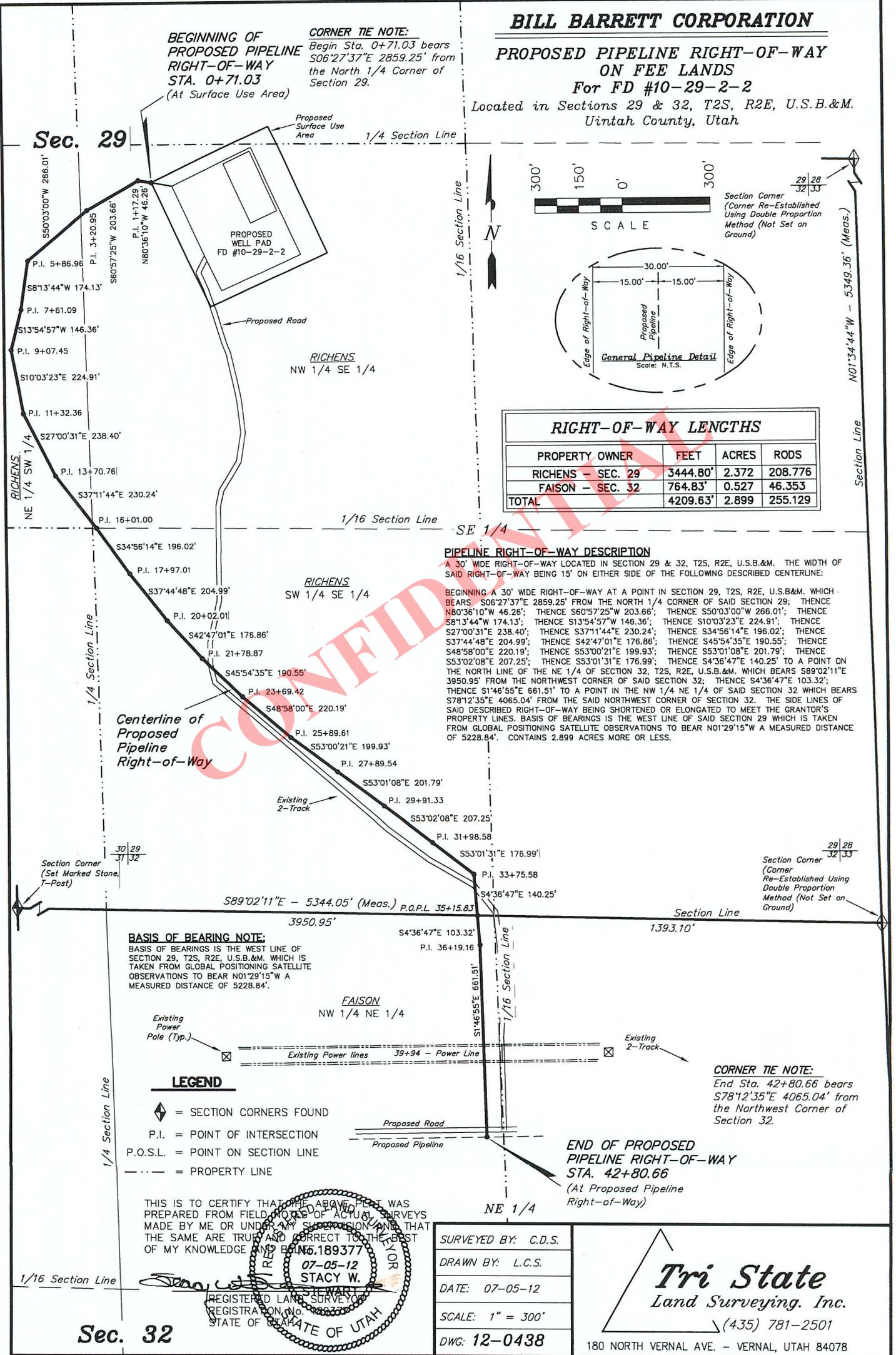
**PROPOSED PIPELINE RIGHT-OF-WAY ON FEE LANDS**

For FD #10-29-2-2

Located in Sections 29 & 32, T2S, R2E, U.S.B.&M. Uintah County, Utah

**BEGINNING OF PROPOSED PIPELINE RIGHT-OF-WAY**  
 STA. 0+71.03  
 (At Surface Use Area)

**CORNER TIE NOTE:**  
 Begin Sta. 0+71.03 bears S06°27'37"E 2859.25' from the North 1/4 Corner of Section 29.



**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
RICHENS - SEC. 29	3444.80'	2.372	208.776
FAISON - SEC. 32	764.83'	0.527	46.353
<b>TOTAL</b>	<b>4209.63'</b>	<b>2.899</b>	<b>255.129</b>

**PIPELINE RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY LOCATED IN SECTION 29 & 32, T2S, R2E, U.S.B.&M. THE WIDTH OF SAID RIGHT-OF-WAY BEING 15' ON EITHER SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING A 30' WIDE RIGHT-OF-WAY AT A POINT IN SECTION 29, T2S, R2E, U.S.B.&M. WHICH BEARS S06°27'37"E 2859.25' FROM THE NORTH 1/4 CORNER OF SAID SECTION 29; THENCE N80°36'10"W 46.26'; THENCE S60°57'25"W 203.66'; THENCE S50°03'00"W 266.01'; THENCE S81°3'44"W 174.13'; THENCE S13°54'57"W 146.36'; THENCE S10°03'23"E 224.91'; THENCE S27°00'31"E 238.40'; THENCE S37°11'44"E 230.24'; THENCE S34°56'14"E 196.02'; THENCE S37°44'48"E 204.99'; THENCE S42°47'01"E 176.86'; THENCE S45°54'35"E 190.55'; THENCE S48°58'00"E 220.19'; THENCE S53°00'21"E 199.93'; THENCE S53°01'08"E 201.79'; THENCE S53°02'08"E 207.25'; THENCE S53°01'31"E 176.99'; THENCE S4°36'47"E 140.25' TO A POINT ON THE NORTH LINE OF THE NE 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M. WHICH BEARS S89°02'11"E 3950.95' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE S4°36'47"E 103.32'; THENCE S1°46'55"E 661.51' TO A POINT IN THE NW 1/4 NE 1/4 OF SAID SECTION 32 WHICH BEARS S78°12'35"E 4065.04' FROM THE SAID NORTHWEST CORNER OF SECTION 32. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS THE WEST LINE OF SAID SECTION 29 WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N01°29'15"W A MEASURED DISTANCE OF 5228.84'. CONTAINS 2.899 ACRES MORE OR LESS.

**BASIS OF BEARING NOTE:**  
 BASIS OF BEARINGS IS THE WEST LINE OF SECTION 29, T2S, R2E, U.S.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N01°29'15"W A MEASURED DISTANCE OF 5228.84'.

**CORNER TIE NOTE:**  
 End Sta. 42+80.66 bears S78°12'35"E 4065.04' from the Northwest Corner of Section 32.

- LEGEND**
- ◆ = SECTION CORNERS FOUND
  - P.I. = POINT OF INTERSECTION
  - P.O.S.L. = POINT ON SECTION LINE
  - = PROPERTY LINE

THIS IS TO CERTIFY THAT THE ABOVE PLAN 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.

REGISTERED LAND SURVEYOR  
 REGISTRATION No. 16189377  
 07-05-12  
 STACY W.  
 STATE OF UTAH

SURVEYED BY:	C.D.S.
DRAWN BY:	L.C.S.
DATE:	07-05-12
SCALE:	1" = 300'
DWG:	12-0438

**Tri State**  
 Land Surveying, Inc.  
 (435) 781-2501  
 180 NORTH VERNAL AVE. - VERNAL, UTAH 84078

**PIPELINE RIGHT-OF-WAY DESCRIPTION ON VERNON B. & EVA DIANE RICHENS LANDS**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE. BEGINNING AT A POINT ON THE EAST LINE OF THE NE 1/4 NE 1/4 OF SECTION 30, T2S, R2E, U.S.B.&M. WHICH BEARS S00°15'54"E 40.07' FROM THE NORTHEAST CORNER OF SAID SECTION 30, THENCE S89°55'45"W 1331.12' TO A POINT ON THE EAST LINE OF SECTION 30, THENCE S00°10'01"W 180.20', THENCE N89°43'17"W 0.39' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 30 WHICH BEARS S71°09'45"W 608.91' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.917 ACRES MORE OR LESS.

**PIPELINE RIGHT-OF-WAY DESCRIPTION ON TRACEY NIAL RICHENS LANDS**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE. BEGINNING AT A POINT ON THE EAST LINE OF THE NW 1/4, NE 1/4, OF SECTION 30, T2S, R2E, U.S.B.&M. WHICH BEARS S89°55'45"W 1331.12' TO A POINT ON THE EAST LINE OF SECTION 30, THENCE S00°10'01"W 180.20', THENCE N89°43'17"W 0.39' TO A POINT IN THE NE 1/4 NW 1/4 OF SAID SECTION 30 WHICH BEARS S71°09'45"W 608.91' FROM THE NORTH 1/4 CORNER OF SAID SECTION 30, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.437 ACRES MORE OR LESS.

**PIPELINE RIGHT-OF-WAY DESCRIPTION ON VERNON B. RICHENS ET UX LANDS**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE. BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 29, T2S, R2E, U.S.B.&M. WHICH BEARS S53°30'22"W 938.50' FROM THE NORTH 1/4 CORNER OF SAID SECTION 29, THENCE S89°25'44"W 585.87', THENCE N81°28'57"W 33.57', THENCE S81°41'26"W 41.43', THENCE N54°14'45"W 113.30', THENCE N71°45'23"W 48.61', THENCE S87°45'55"W 32.95', THENCE S71°56'01"W 42.59', THENCE N82°56'13"W 122.30', THENCE N78°44'58"W 157.50', THENCE N70°03'39"W 34.95', THENCE N42°55'33"W 19.05', THENCE N11°50'43"W 23.37', THENCE N05°01'30"E 199.88', THENCE N00°07'16"E 208.16', THENCE S89°55'45"W 100.73' TO A POINT ON THE EAST LINE OF SECTION 29, THENCE S00°15'54"E 40.07' FROM THE NORTHWEST CORNER OF SAID SECTION 29, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.868 ACRES MORE OR LESS.

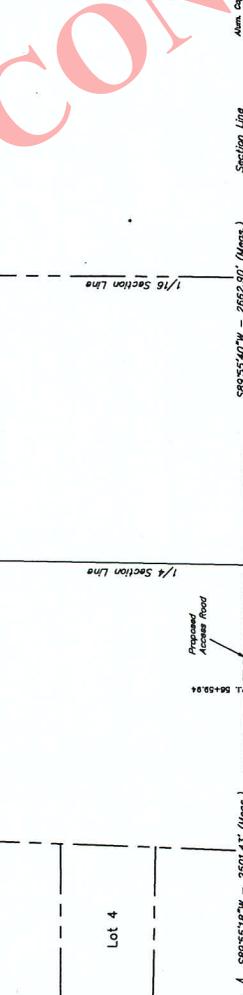
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LOCATED IN SECTIONS 29 & 30, T2S, R2E, U.S.B.&M., JUNTAH COUNTY, UTAH

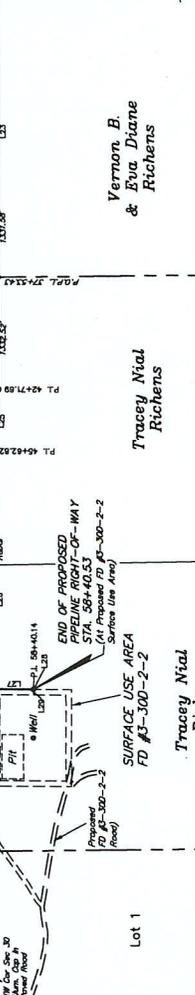
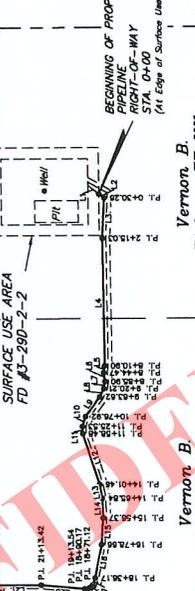
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH
L1	S89°55'45"W	83.70	L5	N78°44'58"W	107.50
L2	S89°55'45"W	30.38	L7	N70°03'39"W	34.95
L3	N89°25'44"W	184.78	L8	N42°55'33"W	19.05
L4	S89°25'44"W	85.67	L9	N11°50'43"W	23.37
L5	N81°28'57"W	33.57	L10	N05°01'30"E	199.88
L6	N81°28'57"W	41.43	L11	N00°07'16"E	208.16
L7	N00°07'16"E	34.31	L12	S89°55'45"W	100.73
L8	N54°14'45"W	43.41	L13	S89°55'45"W	1331.12
L9	N54°14'45"W	113.30	L14	S89°55'45"W	518.28
L10	N71°45'23"W	48.61	L15	N89°43'17"W	1097.12
L11	S87°45'55"W	32.95	L16	S00°10'01"W	180.20
L12	S71°56'01"W	242.86	L17	S00°10'01"W	180.20
L13	S71°56'01"W	64.37	L18	N89°43'17"W	0.39
L14	S87°45'55"W	80.53	L19	N89°43'17"W	23.37
L15	N82°56'13"W	122.30			



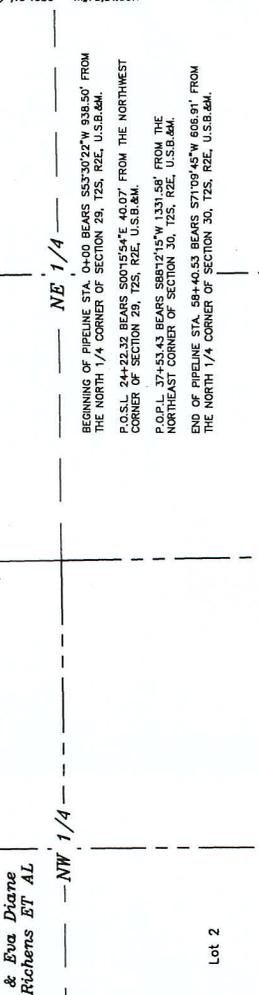
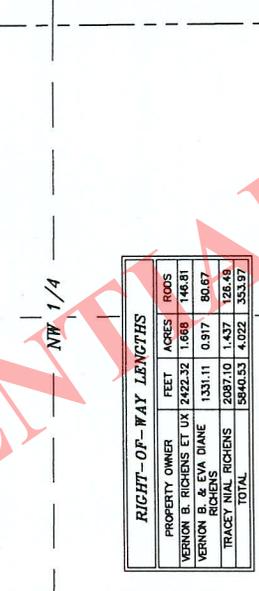
**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	ROGS
VERNON B. RICHENS ET UX	2422.32	1.688	148.81
VERNON B. & EVA DIANE	1331.11	0.917	80.67
TRACEY NIAL RICHENS	2087.10	1.437	128.49
TOTAL	5840.53	4.022	358.97



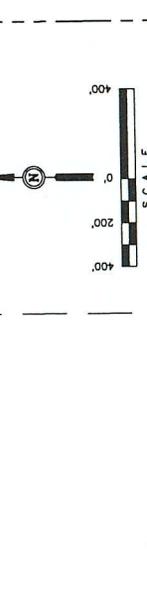
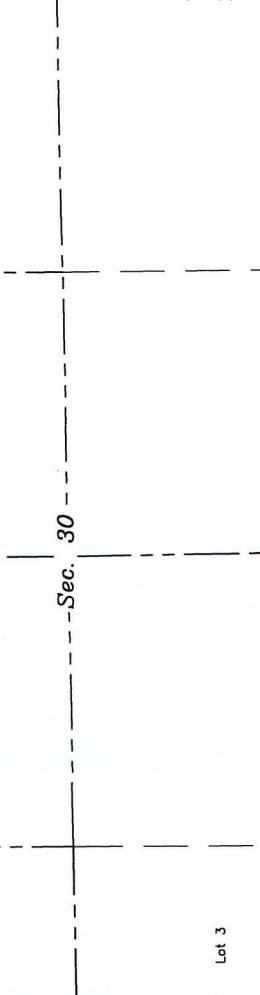
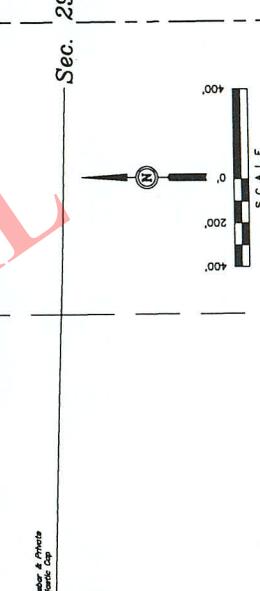
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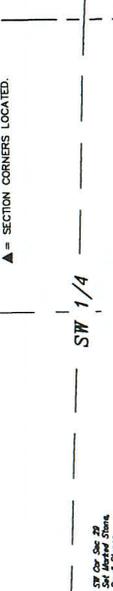
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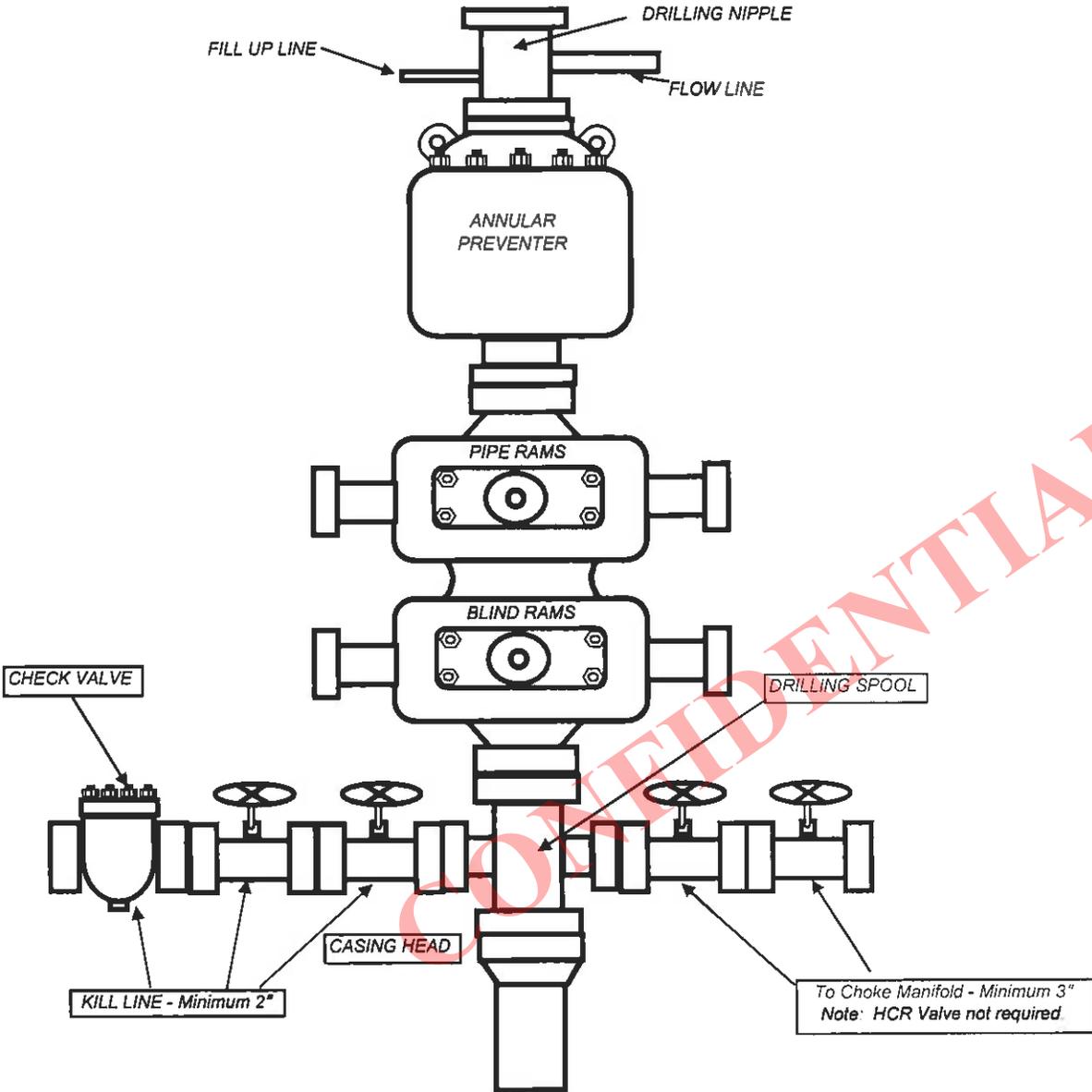
UTAH ENGINEERING & LAND SURVEYING  
86 SOUTH - 200 EAST • (435) 789-1017  
VERNAL, UTAH - 84078

SCALE	1" = 400'	DATE	12-19-12
PARTY	G.R. A.S. K.O.	REFERENCES	G.L.O. PLAN
REVISION		TITLE	3 2 9 0 7
COLL			



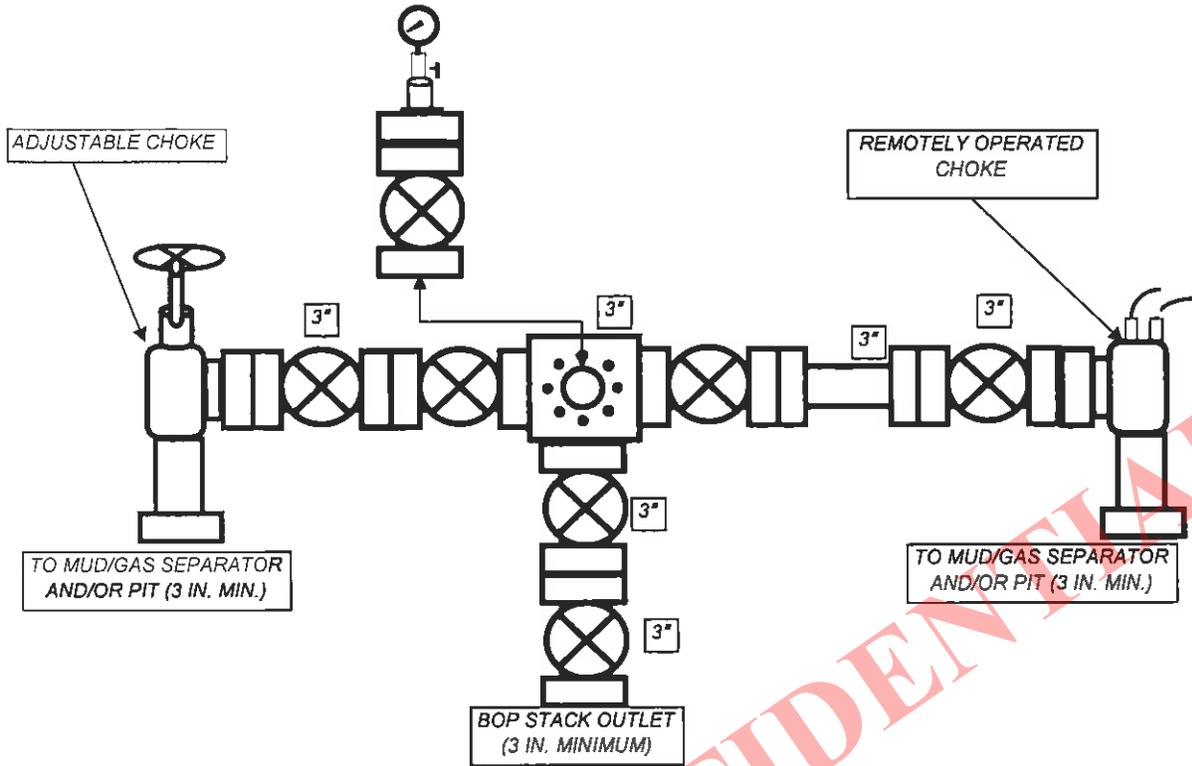
# BILL BARRETT CORPORATION

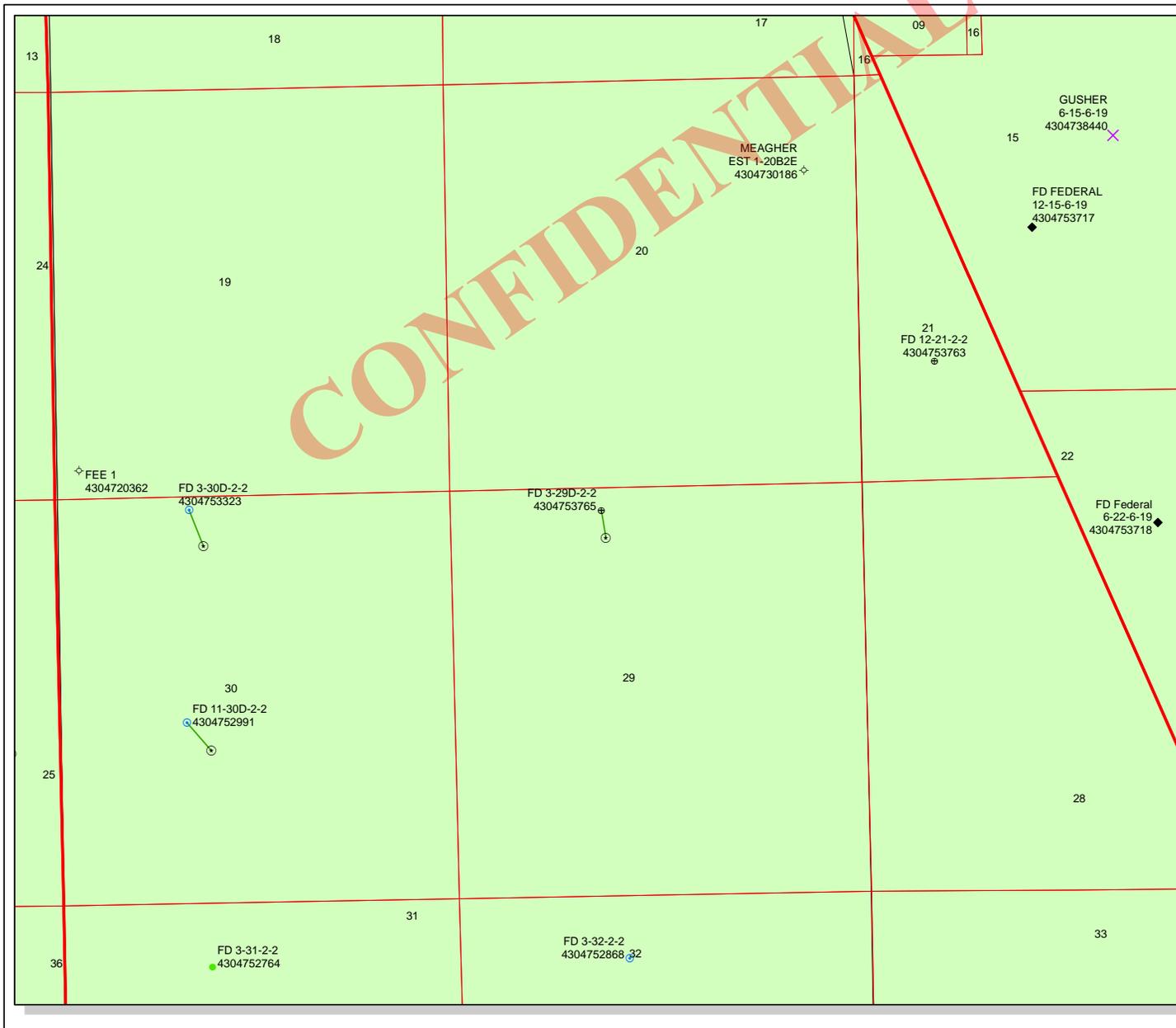
## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

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

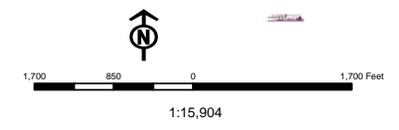
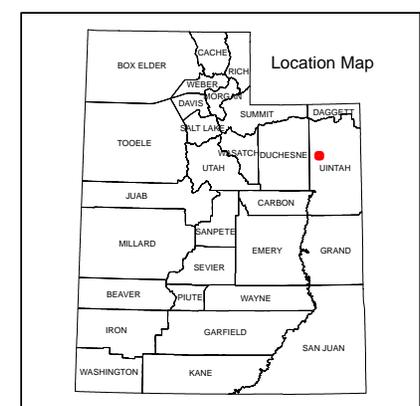




**API Number: 4304753765**  
**Well Name: FD 3-29D-2-2**  
**Township T02.0S Range R02.0E Section 29**  
**Meridian: UBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

- Units**  
**STATUS**
- ACTIVE
  - EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PI OIL
  - PP GAS
  - PP GEOTHERM
  - PP OIL
  - SECONDARY
  - TERMINATED





June 3, 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: Directional Drilling **FD 3-29D-2-2**

**East Bluebell Area**

Surface: 300' FNL, 1925' FWL, NENW, 29-T2S-R2E USM

Bottom Hole: 660' FNL, 1980' FWL, NENW, 29-T2S-R2E USM

Uintah 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 Sitting of Wells.

- The proposed location is within our East Bluebell 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 Eliason Eight, LLC et al.
- BBC certifies that it is the owner of oil and gas in tracts within 460 feet from all points along the intended well bore and that all, now known, to the proposed directional drilling program, have been notified of BBC's intention to drill a directional well. BBC further certifies that it has obtained written consent from at least one owner in each tract within 460 feet of the intended well bore in which BBC is not an owner.

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 303-312-8757.

Sincerely,

BILL BARRETT CORPORATION

*Becky Riny*  
Thomas J. Abell *for*  
Landman

**CONFIDENTIAL**

Well Name	BILL BARRETT CORP FD 3-29D-2-2 43047537650000			
String	COND	SURF	PROD	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	1500	10429	
Previous Shoe Setting Depth (TVD)	0	80	1500	
Max Mud Weight (ppg)	8.7	9.4	9.5	
BOPE Proposed (psi)	0	0	5000	
Casing Internal Yield (psi)	1000	3520	10640	
Operators Max Anticipated Pressure (psi)	5145		9.5	

Calculations	COND String	16.000	"
Max BHP (psi)	.052*Setting Depth*MW=	36	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	26	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	18	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	18	NO
Required Casing/BOPE Test Pressure=		0	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

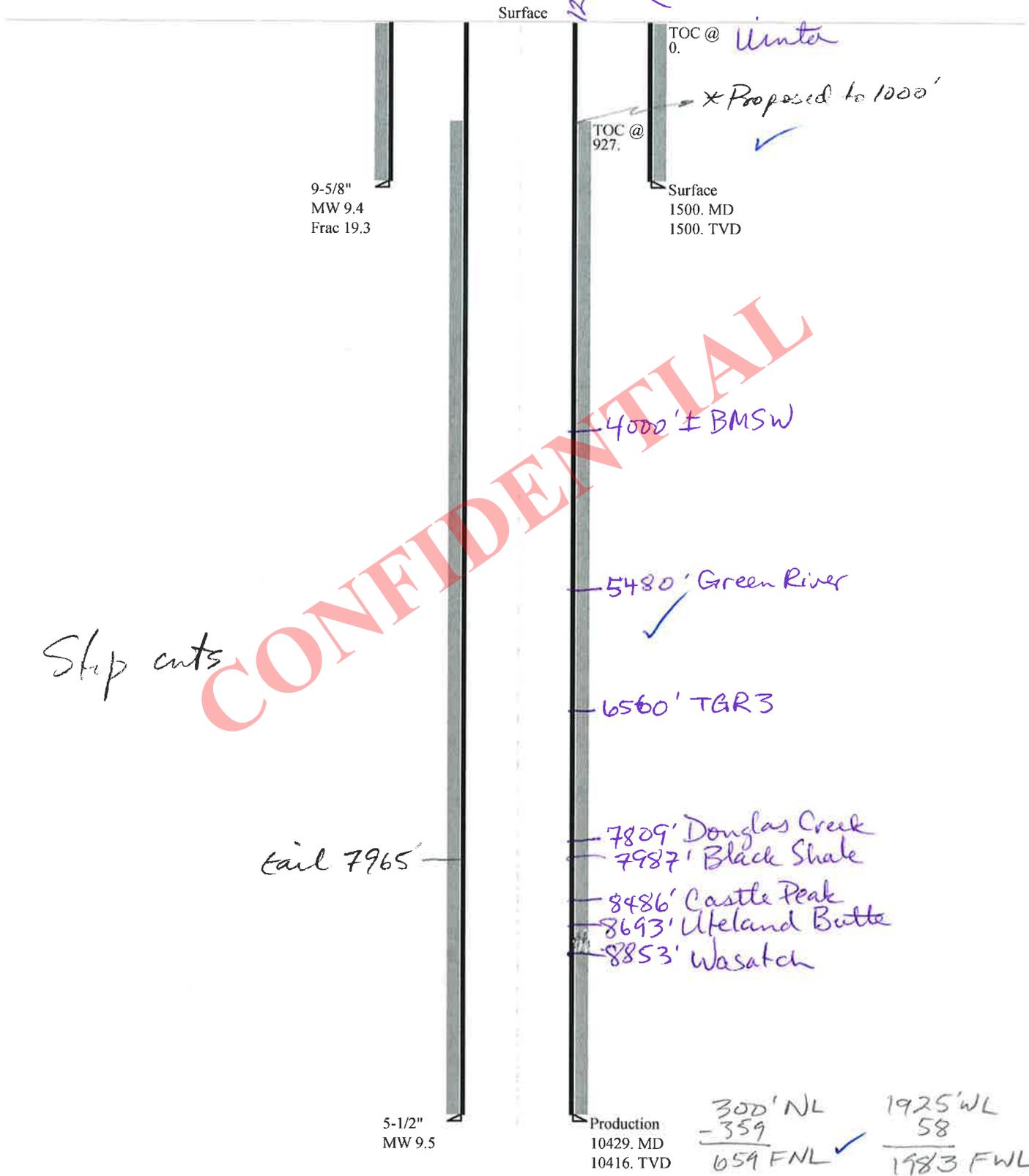
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	733	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	553	NO Fresh wtr spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	403	NO No expected pressure
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	421	NO
Required Casing/BOPE Test Pressure=		1500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		80	psi *Assumes 1psi/ft frac gradient

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5152	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3901	YES 11
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2858	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3188	NO OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient

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

# 43047537650000 FD 3-29D-2-2

## Casing Schematic



9-5/8"  
MW 9.4  
Frac 19.3

Surface

TOC @ 0. *Winter*

TOC @ 927.

Surface  
1500. MD  
1500. TVD

*\* Proposed to 1000'*

*4000' ± BMSW*

*5480' Green River*

*6560' TGR3*

*7809' Douglas Creek*

*7987' Black Shale*

*8486' Castle Peak*

*8693' Uteland Butte*

*8853' Wasatch*

*Strip cuts*

**CONFIDENTIAL**

*tail 7965'*

5-1/2"  
MW 9.5

Production  
10429. MD  
10416. TVD

<i>300' NL</i>	<i>1925' WL</i>
<i>-359</i>	<i>58</i>
<i>659 FNL ✓</i>	<i>1983 FWL ✓</i>

*NE NW sec 29-25-2W*

*OK*

Well name:	<b>43047537650000 FD 3-29D-2-2</b>		
Operator:	<b>BILL BARRETT CORP</b>	Project ID:	43-047-53765
String type:	Surface		
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 9.400 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: 95 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 1,320 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 1,500 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 buoyed weight.  
 Neutral point: 1,291 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,943 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 4,907 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 1,500 ft  
 Injection pressure: 1,500 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	1500	9.625	36.00	J-55	ST&C	1500	1500	8.796	13038
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	732	2020	2.758	1500	3520	2.35	46.5	394	8.48 J

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

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

Date: August 1, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1500 ft, a mud weight of 9.4 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>43047537650000 FD 3-29D-2-2</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Production	Project ID:	43-047-53765
Location:	UINTAH 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: 220 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft  
 Cement top: 927 ft

**Burst**

Max anticipated surface pressure: 2,849 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 5,141 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: 8,928 ft

**Directional well information:**

Kick-off point 1600 ft  
 Departure at shoe: 364 ft  
 Maximum dogleg: 1.5 °/100ft  
 Inclination at shoe: 0 °

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	10429	5.5	17.00	P-110	LT&C	10416	10429	4.767	68694
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	5141	7480	1.455	5141	10640	2.07	177.1	445	2.51 J

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

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

Date: August 1, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10416 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** FD 3-29D-2-2  
**API Number** 43047537650000      **APD No** 7989    **Field/Unit** UNDESIGNATED  
**Location: 1/4,1/4NENW**    **Sec** 29    **Tw** 2.0S    **Rng** 2.0E    300 FNL 1925 FWL  
**GPS Coord (UTM)** 602335 4460278      **Surface Owner** Vernon Richens

### Participants

Jake Woodland, Kary Eldredge (Bill Barrett Corporation), Cody Rich (surveyor), Jim Burns (permit contractor)

### Regional/Local Setting & Topography

This proposed well site is just south and east of Gusher, Utah which is approximately midway between the larger towns of Vernal and Roosevelt, Utah. The terrain here is made up of small scattered hills and dry washes. The soil is mostly quite permeable sandy loam which supports sage brush and various desert grasses. Scattered throughout the area, where topography and water permits, are irrigated alfalfa hay fields. There is a small lake about 400 feet to the east of this location.

### Surface Use Plan

**Current Surface Use**  
Wildlfe Habitat

New Road Miles	Well Pad Width 300 Length 400	Src Const Material	Surface Formation
1.3		Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?**      Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

The vegetation at this site consists primarily of sage brush and various desert grasses and shrubs. Good pronghorn habitat.

#### **Soil Type and Characteristics**

Sandy loam with some exposed sandstone bedrock

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diverson Required?** N

**Berm Required? Y**

Needs a well built berm on this site.

**Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run? N    Cultural Resources? N****Reserve Pit**

<b>Site-Specific Factors</b>		<b>Site Ranking</b>	
<b>Distance to Groundwater (feet)</b>	25 to 75	15	
<b>Distance to Surface Water (feet)</b>	300 to 1000	2	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>	>1320	0	
<b>Native Soil Type</b>	High permeability	20	
<b>Fluid Type</b>	TDS>10000	15	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>		0	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Unknown	10	
	<b>Final Score</b>	62	1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 205 x 100 x 8ft. Bill Barrett representative Kary Eldredge stated that a 20 mil reserve pit liner and felt subliner will be used. This liner program appears adequate for this location.

**Closed Loop Mud Required? Y    Liner Required? Y    Liner Thickness 16    Pit Underlayment Required? Y****Other Observations / Comments**

Richard Powell  
Evaluator

6/19/2013  
Date / Time

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7989	43047537650000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	Vernon Richens	
<b>Well Name</b>	FD 3-29D-2-2		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>	DRILL	
<b>Location</b>	NENW 29 2S 2E U 300 FNL (UTM) 602338E 4460284N		1925 FWL	GPS Coord	

**Geologic Statement of Basis**

Bill Barrett proposes to set 80 feet of conductor and 1,500 feet of surface casing at this location. The entire surface hole will be drilled with fresh water mud. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,000'. A search of Division of Water Rights records shows 4 water wells within a 10,000 foot radius of the center of Section 29. The wells are 60-500 feet in depth with listed uses as domestic, irrigation and stock watering. The wells probably produce water from near-surface alluvium and the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
**APD Evaluator**

7/8/2013  
**Date / Time**

**Surface Statement of Basis**

This well is on fee surface with fee minerals. Surface owner Vernon Richens was invited to this onsite and several other well sites on Mr. Richens land to be visited this day. I met with Mr. Richens to discuss the well sites in general and he stated that prior to placement of the wells on the Richens land, he was consulted by Bill Barrett Corporation and all locations were placed such that his farming and livestock operation would not be disturbed. Mr. Richens chose not to participate in the days presite inspections but expressed that he had no concerns with any of the proposed locations. According to Kari Eldredge a 20 mil liner will be used for this reserve pit. This liner will be adequate for the location. Due to very permeable soils and rugged terrain this well pad must be bermed to keep any leaked or spilled fluids contained to the pad. There is a small lake approximately 400 feet to the east of this location and because of this the location needs to have a substantial berm. Berm construction was discussed during the presite and it was the consensus that not all berms are well built. On this location a well built and substantial berm is needed to protect the small lake just below the location.

Richard Powell  
**Onsite Evaluator**

6/19/2013  
**Date / Time**

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

Category	Condition
Pits	A synthetic liner with a minimum thickness of 16 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.
Surface	The well site shall be bermed to prevent fluids from leaving the pad. For the protection of the lake just below this location the berm must be of substantial construction.

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/16/2013

API NO. ASSIGNED: 43047537650000

WELL NAME: FD 3-29D-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: NENW 29 020S 020E

Permit Tech Review: 

SURFACE: 0300 FNL 1925 FWL

Engineering Review: 

BOTTOM: 0660 FNL 1980 FWL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.28679

LONGITUDE: -109.79606

UTM SURF EASTINGS: 602338.00

NORTHINGS: 4460284.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

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: 49-1645
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 131-135
- Effective Date: 11/20/2013
- Siting: \*See Order
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - ddoucet  
 5 - Statement of Basis - bhill  
 12 - Cement Volume (3) - hmacdonald  
 15 - Directional - dmason  
 25 - Surface Casing - hmacdonald



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. HAZA  
*Division Director*

## Permit To Drill

\*\*\*\*\*

**Well Name:** FD 3-29D-2-2

**API Well Number:** 43047537650000

**Lease Number:** fee

**Surface Owner:** FEE (PRIVATE)

**Approval Date:** 12/3/2013

### 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 131-135. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH 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

### Commingling:

In accordance with Board Cause No. 139-42, commingling of the production from the Wasatch formation and the Lower Green River formation in this well is allowed. Commingling with the Middle and Upper Green River formations cannot take place without proper approval as per R649-3-22.

### 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:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

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

Cement volume for the 5 1/2 production string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1000'

MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

**Additional Approvals:**

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written in a cursive style.

For John Rogers  
Associate Director, Oil & Gas

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<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
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP	7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	8. WELL NAME and NUMBER: FD 3-29D-2-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0300 FNL 1925 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U	9. API NUMBER: 43047537650000
PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
COUNTY: UINTAH	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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/10/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input 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.

Bill Barrett Corporation is requesting permission to revise the drilling plan for this well: Surface casing set depth will remain the same at 1500'; Surface casing description: 8-5/8" 24# J55 STC (Hole size remains at 12-1/4" hole); Surface cement volumes: 160 sx 11.0 ppg lead (75% excess) 270 sx 14.8 ppg tail (75% excess); Production grade changing to: P-110 OR I-80; Production Hole and Casing size remains the same.

**Approved by the Utah Division of Oil, Gas and Mining**  
**Date:** February 14, 2014  
**By:** *D. K. Quist*

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 2/10/2014	

<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>	5. LEASE DESIGNATION AND SERIAL NUMBER: fee
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:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 3-29D-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537650000
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: 0300 FNL 1925 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: UNDESIGNATED
	COUNTY: UINTAH
	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"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 2/18/2014	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input 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.

Bill Barrett Corporation is requesting permission to revise the surface casing set depth for this well from 1500' to 1200'. Hole and casing size will remain the same. Surface casing cement totals will change to 170sx (lead) and 270sx (tail).

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

**Date:** February 24, 2014

**By:** 

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/19/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 3-29D-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537650000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0300 FNL 1925 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/27/2014	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

This well was spud on 2/27/14 at approximately 11:00 am by Triple A Drilling, Rig #TA 4037, Rig Type Soilmec SR/30. Drilling is anticipated to resume on 3/6/2014.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
February 27, 2014**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 2/27/2014	

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BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# PRO PETRO 10 Submitted  
By JEREMY MEJORADO Phone Number 303-353-5374  
Well Name/Number FD 3-29D-2-2  
Qtr/Qtr NE/NW Section 29 Township 2S Range 2E  
Lease Serial Number FEE  
API Number ~~43-475-76500~~ 4304953765

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

Date/Time 4/30/14 6:55 AM  PM

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

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

Date/Time \_\_\_\_\_ :00 AM  PM

BOPE

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

Date/Time \_\_\_\_\_ AM  PM

Remarks Will set 1200' +/- 8 5/8", 24#, J-55 csg & cement.  
PLEASE CALL WITH ANY QUESTIONS CONCERNS

<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:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 3-29D-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537650000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: UNDESIGNATED
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0300 FNL 1925 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/30/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached is a April 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY**  
 May 06, 2014

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 5/6/2014	

**FD 03-29D-2-2 4/4/2014 06:00 - 4/5/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00			R/U - DRILL 12 1/4 SURFACE FROM 80' T/1250' - CIRC - WIPER TRIP - T.O.O.H. - R/U & RUN 28 JOINTS 8 5/8 #24 J-55 CSG

**FD 03-29D-2-2 4/21/2014 06:00 - 4/22/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	1	RIGUP & TEARDOWN	RIGGING DOWN WITH CREWS FOR HIGHWAY MOVE
08:00	10.00	18:00	1	RIGUP & TEARDOWN	MOVE RIG 16.5 MILES WITH HOWCROFT FIELD SERVICE
18:00	6.00	00:00	1	RIGUP & TEARDOWN	RIGGING UP WITH CREWS - CHANGE RADIATOR ON PUMP #2 MOTOR AND #1 LIGHT PLANT MOTOR - REPLACE DRAWWORKS AIR BRAKE
00:00	4.00	04:00	14	NIPPLE UP B.O.P	NIPPLE UP BOP - RIG ACCEPTED TO DAY WORK @ 0000 HRS 4/22/14
04:00	2.00	06:00	15	TEST B.O.P	SAFTEY MEETING WITH TESTER - RIG UP TESTER AND TEST BOP

**FD 03-29D-2-2 4/22/2014 06:00 - 4/23/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	15	TEST B.O.P	TEST BOP WITH B&C QUICK TEST - (PIPE RAMS, BLIND RAMS, FOSV, INSIDE BOP, CHOKE LINE & VALVES, CHOKE MANIFOLD, KILL LINE INSIDE & OUT SIDE VALVE, HCR, MANUEL VALVE ALL @ 10 MIN 5000 PSI HIGH 5MIN 250 PSI LOW, ANNULAR @ 10MIN 2500 PSI HIGH 5MIN 250 PSI LOW, CASING @ 30MIN 1500 PSI - R/D TESTER
09:00	2.50	11:30	21	OPEN	LOAD BHA ON PIPE RACKS AND STRAP BHA
11:30	0.50	12:00	21	OPEN	SET WEAR BUSHING
12:00	0.50	12:30	7	LUBRICATE RIG	RIG SERVICE
12:30	3.00	15:30	20	DIRECTIONAL WORK	PICK UP MUD MOTOR - MAKE UP BIT - SCRIBE MOTOR - LOAD MWD TOOL - FINSH PICKING UP DIRECTIONAL TOOLS
15:30	2.00	17:30	6	TRIPS	T.I.H. FROM 98' TO 1140'
17:30	2.00	19:30	2	DRILL ACTUAL	TAG CEMENT AT 1140' - DRILL CEMENT FLOAT EQUIPMENT AND 20' NEW HOLE W/340GPM, 25 RPM, 5-7K WT ON BIT
19:30	0.50	20:00	21	OPEN	PUMP HIGH VIS LCM SWEEP - PERFORM F.I.T. - CLOSE ANNULAR AND BRING PRESSURE UPTO 140 PSI (10.5 PPG EMW) - PRESSURE BLED DOWN TO 105 PSI (9.9 PPG EMW) - RELEASE PRESSURE
20:00	0.50	20:30	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (27') 54 FPH GPM=570 TOPDRIVE RPM=40 MOTOR RPM=97 TOTAL RPM=137 WT ON BIT=16K OFF BOTTOM PRESSURE=1770 PSI DIFF PRESS=200-300PSI TQ=4K
20:30	0.50	21:00	7	LUBRICATE RIG	RIG SERVICE
21:00	9.00	06:00	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (1150') 127.7 FPH GPM=570 TOPDRIVE RPM=40 MOTOR RPM=97 TOTAL RPM=137 WT ON BIT=16K OFF BOTTOM PRESSURE=1970 PSI DIFF PRESS=200-300PSI TQ=4K

**FD 03-29D-2-2 4/23/2014 06:00 - 4/24/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (1074') 119.3 FPH GPM=570 TOPDRIVE RPM=40 MOTOR RPM=97 TOTAL RPM=137 WT ON BIT=18K OFF BOTTOM PRESSURE=2170 PSI DIFF PRESS=200-300PSI TQ=4K
15:00	0.50	15:30	7	LUBRICATE RIG	RIG SERVICE
15:30	14.00	05:30	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (1369') 97.7 FPH GPM=570 TOPDRIVE RPM=40 MOTOR RPM=97 TOTAL RPM=137 WT ON BIT=21K OFF BOTTOM PRESSURE=2270 PSI DIFF PRESS=200-300PSI TQ=6K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 03-29D-2-2 4/24/2014 06:00 - 4/25/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (425') 85 FPH GPM=480 TOPDRIVE RPM=40 MOTOR RPM=81 TOTAL RPM=126 WT ON BIT=22K OFF BOTTOM PRESSURE=2270 PSI DIFF PRESS=200-300PSI TQ=6K
11:00	0.50	11:30	7	LUBRICATE RIG	RIG SERVICE
11:30	8.50	20:00	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (522') 61.4 FPH GPM=480 TOPDRIVE RPM=40 MOTOR RPM=81 TOTAL RPM=126 WT ON BIT=22K OFF BOTTOM PRESSURE=2270 PSI DIFF PRESS=200-300PSI TQ=6K
20:00	0.50	20:30	7	LUBRICATE RIG	RIG SERVICE
20:30	1.00	21:30	8	REPAIR RIG	WORK ON SWIVEL MOTOR ELECTRICAL ISSUE
21:30	8.50	06:00	2	DRILL ACTUAL	DRILLING 7 7/8 PRODUCTION (301') 35.4 FPH GPM=540 TOPDRIVE RPM=40 MOTOR RPM=92 TOTAL RPM=132 WT ON BIT=24K OFF BOTTOM PRESSURE=1995 PSI DIFF PRESS=150-300PSI TQ=6K

**FD 03-29D-2-2 4/25/2014 06:00 - 4/26/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/6151'-6322' (171') 17 FPH GPM=469 TOPDRIVE RPM=36 MOTOR RPM=79 TOTAL RPM=115 WT ON BIT=26K OFF BOTTOM PRESSURE=1995 PSI DIFF PRESS=150-300PSI TQ=6K
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	7	LUBRICATE RIG	STEERABLE DRILLING 7 7/8 PRODUCTION F/6322'-6694' (372') 29 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=26K OFF BOTTOM PRESSURE=1995 PSI DIFF PRESS=150-300PSI TQ=6K

**FD 03-29D-2-2 4/26/2014 06:00 - 4/27/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/6694'-6752' (58') 23 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=26K OFF BOTTOM PRESSURE=1995 PSI DIFF PRESS=150-300PSI TQ=6K
08:30	2.50	11:00	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND CIRCULATE BOTTOMS UP BUILD SLUG PUMP SLUG & FLOW CHECK
11:00	4.00	15:00	6	TRIPS	TRIP OUT OF HOLE (HOLE TOOK CORRECT DISPLACEMENT)
15:00	1.50	16:30	20	DIRECTIONAL WORK	LAY DOWN DIRECTIONALS TOOLS BREAK BIT M/U NEW BIT PICK UP DIRECTIONAL TOOLS RESCRIBE
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	1.50	18:30	21	OPEN	SLIP AND CUT DRILL LINE
18:30	5.50	00:00	6	TRIPS	TRIP IN HOLE
00:00	0.50	00:30	3	REAMING	WASH AND REAM TO BOTTOM
00:30	3.00	03:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/6752'-6908' (156') 52 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=18K OFF BOTTOM PRESSURE=2006 PSI DIFF PRESS=150-300PSI TQ=6K
03:30	1.00	04:30	20	DIRECTIONAL WORK	DIRECTIONAL WORK DOWN LINK TO MWD TO BOOST SIGNAL
04:30	1.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/6908'-7040' (132') 88 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=18K OFF BOTTOM PRESSURE=2020 PSI DIFF PRESS=150-300PSI TQ=6K

**FD 03-29D-2-2 4/27/2014 06:00 - 4/28/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/7040'-7505' (465') 63 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=18K OFF BOTTOM PRESSURE=2110 PSI DIFF PRESS=150-300PSI TQ=6K
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	15.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/7505'-8575' (1070') 69 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=18K OFF BOTTOM PRESSURE=2180 PSI DIFF PRESS=150-300PSI TQ=8.5K

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 03-29D-2-2 4/28/2014 06:00 - 4/29/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53765	UT	Uintah	Fort Duchesne	COMPLETION	9,450.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/8575'-8617' (42') 84 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=18K OFF BOTTOM PRESSURE=2180 PSI DIFF PRESS=150-300PSI TQ=8.5K
06:30	0.50	07:00	7	LUBRICATE RIG	RIG SERVICE
07:00	1.50	08:30	8	REPAIR RIG	WORK ON NUMBER ONE PUMP REPLACE 2 SWABS AND 1 LINER #2 CIRCULATE SLOW WITH #2 PUMP WITH BROKEN FAN BELT
08:30	20.00	04:30	2	DRILL ACTUAL	STEERABLE DRILLING 7 7/8 PRODUCTION F/8617'-9450' TD (833') 42 FPH GPM=469 TOPDRIVE RPM=50 MOTOR RPM=79 TOTAL RPM=129 WT ON BIT=26K OFF BOTTOM PRESSURE=2182 PSI DIFF PRESS=150-300PSI TQ=8.6K
04:30	1.00	05:30	5	COND MUD & CIRC	PUMP SWEEP CIRCULTE AROUND
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 3-29D-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537650000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0300 FNL 1925 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/21/2014	<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
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	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
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	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THIS WELL HAD FIRST PRODUCTION AND FIRST GAS SALES ON  
5/21/2014

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**  
**FOR RECORD ONLY**  
May 28, 2014

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/27/2014	

CONFIDENTIAL

Resubmitting

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# PRO PETRO 10 Submitted  
By Pat Clark Phone Number 303-353-5374  
Well Name/Number FD 3-29D-2-2  
Qtr/Qtr NE/NW Section 29 Township 2S Range 2E  
Lease Serial Number FEE  
API Number ~~43-475-76500~~ 43 047 53765

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

Date/Time \_\_\_\_\_ AM  PM

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

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

Date/Time 5/1/14 10:00 AM  PM

BOPE

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

Date/Time \_\_\_\_\_ AM  PM

Remarks Will set 9440' 5 1/2", 17#, I-80 csg. PLEASE CALL WITH ANY QUESTIONS CONCERNS

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537650000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0300 FNL 1925 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
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<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 5/31/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
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<input type="checkbox"/> 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 checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THIS WELL HAD FIRST OIL SALES ON 5/31/14

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**  
**FOR RECORD ONLY**  
June 03, 2014

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/2/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> FD 3-29D-2-2	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047537650000	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0300 FNL 1925 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH	
		<b>STATE:</b> UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2014	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Attached is the May 2014 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> June 05, 2014			
<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant	
<b>SIGNATURE</b> N/A		<b>DATE</b> 6/5/2014	

**FD 03-29D-2-2 5/1/2014 06:00 - 5/2/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	6.00	12:00	6	TRIPS	Toh f/csg.	
12:00	0.50	12:30	21	OPEN	Pull wear bushing.	
12:30	0.50	13:00	7	LUBRICATE RIG	Rig Service.	
13:00	0.50	13:30	8	REPAIR RIG	Rig repair - fan belts on swivel motor.	
13:30	9.50	23:00	12	RUN CASING & CEMENT	Run 5 1/2", 17#, I-80, LT&C csg as follows: Float shoe, 2 jts csg, float collar, 210 jts csg (212 total), MJs @ 8483', 7838', cement baskets @ 5226', 3983'. BS centralizers on bottom jt, top of jt # 2, every other jt to 1733' (88 cent). Tag bottom w/jt# 213, 12' fill.	
23:00	4.00	03:00	5	COND MUD & CIRC	C&C mud, wash to bottom, reciprocate pipe.	
03:00	3.00	06:00	12	RUN CASING & CEMENT	R/U HES, cement prod csg. Details on next report.	

**FD 03-29D-2-2 5/2/2014 06:00 - 5/3/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	12	RUN CASING & CEMENT	HSM. Cement prod csg as follows: Test lines to 5000 psi. Pump 40 bbls tuned spacer @ 10.3 ppg, Mix and pump 540 sx (225 bbls) tuned lite lead @ 11 ppg, 2.34 yld, 10.1 gps h2o. Tail in with 640 sx (165 bbls) Expandacem @ 13.5 ppg, 1.45 yld, 6.91 gps h2o. Wash up to pit, drop plug, displace with 217 bbls Cla-web/Aldicide @ 8.34 ppg. Max pressure 2180 psi, bump plug to 2680 psi. Bled back 2 bbls, floats held. No returns, no cement to surface. R/D HES.	
07:00	1.00	08:00	21	OPEN	Remove running tool, set packoff and test.	
08:00	6.00	14:00	14	NIPPLE UP B.O.P	NDBOP, clean pits. Rig released @ 14:00. Prepare to move 16 miles to FD 3-33-2-2.	

**FD 03-29D-2-2 5/5/2014 06:00 - 5/6/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	N/D 11" NITE CAP. N/U 7" 5K TBG HEAD & TEST VOID AND SEALS. N/U 7" NITE CAP. SWI.	

**FD 03-29D-2-2 5/7/2014 06:00 - 5/8/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	WLWK	Wireline	MIRU CUTTERS EWL. HSM. ND NIGHT CAP. RIH W/ GR/JB. TAG AT 9300', DRLG SHOWS FC AT 9349' (49' FILL). RUN CBL/CCR/GR AND LOG WITH 1000 PSI. LOG SHOWS CMT-- TD-6200' GOOD WITH FAIR PATCHES, 6200'-5750' FAIR, TOC 5750'. ABOVE 5750' WAS VERY POOR AND RATTY. MARKER JTS 7817'-7841' AND 8509'-8533'. RD CUTTERS. NU 7" NIGHT CAP. WELL SECURE.	

**FD 03-29D-2-2 5/16/2014 06:00 - 5/17/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

**FD 03-29D-2-2 5/17/2014 06:00 - 5/18/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

**FD 03-29D-2-2 5/18/2014 06:00 - 5/19/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	WLWK	Wireline	CASED HOLE MIRU PERFORATED STAGE 1 8963'-9290'. SHUT IN AND SECURED WELL.
09:00	4.00	13:00	SRIG	Rig Up/Down	HES MIRU
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	SHUT IN WELL AND SECURE FOR NIGHT

**FD 03-29D-2-2 5/19/2014 06:00 - 5/20/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	CTRL	Crew Travel	CREW TRAVEL ARRIVE ON LOC @ 5:15AM
06:00	0.10	06:06	SMTG	Safety Meeting	SAFTEY MEETING DISCUSSED RED ZONES, MUSTER AREAS SMOKING AREAS.
06:06	1.20	07:18	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 105 PSI AT 06:15 BREAK DOWN 3852 PSI AT 12.3 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2880 PSI. FLUSH W/ 8752 GAL. 30.0 BPM AT 3465 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.3 BPM AT 4080 PSI. ISDP2636 . FG .73. PERFS OPEN 37/45 ISIP 2842 , FG .75. MR 72.4 BPM, AR 71.5 BPM, MP 6067 (ON BALL OUT) 100 MESH 8000 LBS .75LBS, 20/40 WHITE 1508 lbs 2LB, 2.15-5LB and 5.0 ppg SLK WTR 1012 BBL, 20# HYBOR G (16) 1584 BBL, BTR 2701 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.
07:18	1.20	08:30	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8509'-8533'. RUN DOWN AND SET 5-1/2" CBP AT 8945' WITH 2450 PSI. PULL UP AND PERF CASTLE PEAK AND UTELAND BUTTE FORM 8686'-8925' WITH 42 HOLES IN 15' NET. SHUT IN WITH 1400 PSI. TURN WELL OVER TO HES.
08:30	1.50	10:00	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 7200 PSI. OPEN WELL W/ 1036 PSI AT 10:02 BREAK DOWN 1611 PSI AT 6.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 2990 PSI. FLUSH W/ 8800 GAL. 30.3 BPM AT 3510 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 64.4 BPM AT 4268 PSI. ISDP 2636. FG .74. PERFS OPEN 29/45 ISIP 3387, FG .82, MR 70.6 BPM, AR 70.2 BPM, MP 6259 (ON BALL OUT) 100MESH 8084LBS .75#20/40 WHITE lbs 2.0, 2.15-5#, AND 5 ppg SLK WTR 891 BBL, 20# HYBOR G (16) 1439 BBL, BTR 2423 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.
10:00	1.00	11:00	PFRT	Perforating	PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2900 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8509'-8533'. RUN DOWN AND SET 5-1/2" CBP AT 8655' WITH 2700 PSI. PULL UP AND PERF BLACK SHALE AND DOUGLAS CREEK FORM 8307'-8635' WITH 42 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2100 PSI. TURN WELL OVER TO HES.
11:00	1.34	12:20	FRAC	Frac. Job	FRAC STG 3 PRESSURE TEST LINES TO 7200 PSI. OPEN WELL W/ 2174 PSI AT 11:02 BREAK DOWN 2691 PSI AT 9.8 BPM. PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10.3 BPM AT 2760 PSI. FLUSH W/8111 GAL. 29.6 BPM AT 3450 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71.4 BPM AT 4275 PSI. ISDP 2894. FG .79. PERFS OPEN 39/42 ISIP 2894, FG .79, MR 71.4 BPM, AR 70.1 BPM, MP 5881 (ON BALL OUT) 100MESH 8241 LBS 20/40 WHITE 151,059 lbs 2.0LB, 2.15-5# 5.0 ppg SLK WTR 832 BBL, 20# HYBOR G (16) 1594 BBL, BTR 2519 BBLS SHUT IN AND TURN OVER TO CASEDHOLE.
12:20	0.91	13:15	PFRT	Perforating	PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 3,000 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7817'-7841'. RUN DOWN AND SET 5-1/2" CBP AT 8248' WITH 3000 PSI. DID NOT SEE PLUG SHEAR OFF OF SETTING SLEEVE UNABLE TO GET GUNS OFF OF PLUG PULLED OUT OF ROPE SOCKET AFTER 2HRS OF TRYING TO GET FREE. TOP OF FISH IS AT 8201'
13:15	2.75	16:00	SRIG	Rig Up/Down	PULLED OUT OF ROPE SOCKET. RDMO CASED HOLE AND HES.RDMO CASED HOLE AND HES. STONE RIG 10 WILL BE ON LOCATION TOMORROW TO FISH GUNS OUT OF HOLE AND DRILL OUT 3 5 1/2" PLUGS.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	SHUT IN LOCK AND SECURE WELL FOR NIGHT

**FD 03-29D-2-2 5/20/2014 06:00 - 5/21/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	0.50	07:30	RMOV	Rig Move	ROAD RIG TO LOCATION.
07:30	2.00	09:30	SRIG	Rig Up/Down	SPOT AND RUSU. BLEED OFF PRESSURE (2000 PSI). LIGHT TRICKLE. ND FRAC VALVES. NU BOP AND ANNULAR. RU FLOOR.
09:30	1.50	11:00	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 297-JTS 2-7/8" L-80 TBG.
11:00	3.00	14:00	RUTB	Run Tubing	MU 4-11/16" OVERSHOT (3-1/8" GR, 2-1/2" STOP), DRAIN SUB, BUMPER SUB, JAR, X-OVER, AND TBG SUB. RIH AS PU 246-JTS 2-7/8" TBG.
14:00	1.50	15:30	GOP	General Operations	RU PWR SWIVEL. PUMP THRU LINES. PUMP AND EST CIRC. SHUT DOWN PUMP. EASE DOWN WITH #247 TO TAG TOP OF FISH AT 8201'. WORK OVER SHOT ATTEMPTING TO LATCH ONTO FISH. PUMP IN, PUMP OUT. ROTATING, SPUDDING AND UNABLE TO LATCH FISH. SUSPECT CCL WORN DOWN SMALLER THAN REPORTED. RD PWR SWIVEL.
15:30	2.00	17:30	PULT	Pull Tubing	POOH W/ 247-JTS 2-7/8" TBG AND FISHING ASSY.
17:30	1.00	18:30	RUTB	Run Tubing	RIH W/ 4-11/16" OVERSHOT (2-EXTENSIONS, 3-1/8" GR) DRAIN SUB, BUMPER SUB, JAR, X-O, AND TBG SUB ON 115-JTS TBG. EOT AT 3698'. SDFN
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

**FD 03-29D-2-2 5/21/2014 06:00 - 5/22/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53765	UT	Uintah	Fort Duchesne	PRODUCING	9,450.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM
07:00	1.00	08:00	RUTB	Run Tubing	CONT RIH W/ TBG AND FISHING TOOLS. TAG AND LATCH ONTO PERF GUN AT 8201'.
08:00	0.50	08:30	GOP	General Operations	WORK TBG AND JAR 2 TIMES. 5-1/2" CBP CAME LOOSE. PUSHING UP ON TBG. LOST 14,000#.
08:30	3.50	12:00	FBCK	Flowback Well	LD 1-JT AND 10' TBG SUB. PRESSURE UP ON CSG AND WORK TBG UP AND DOWN. ABLE TO GET FLUID AND PRESSURE TO COME AROUND CBP. HAVE 2100 SICP. FLOW BACK CSG ON 18/64 TO GET PRESSURE DOWN. TURN OVER TO FBC FOR NIGHT.
12:00	18.00	06:00	FBCK	Flowback Well	CREW TRAVEL. FLOW BACK WELL.

**FD 03-29D-2-2 5/22/2014 06:00 - 5/23/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53765	UT	Uintah	Fort Duchesne	PRODUCING	9,450.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM
07:00	5.50	12:30	FBCK	Flowback Well	WELL FLOWING TO PRODUCTION ON 20/64" CHOKE AT 475 PSI. SHUT IN 15 MIN, SICP 1000 PSI. OPEN AND FLOW WELL AS WORK TBG TO PREVENT PLUGGING DOWN HOLE. WELL FLOWING 48/64" CHOKE W/ 0 PSI AT 40 BPH. SHUT IN 15 MIN, SICP 500 PSI.
12:30	1.00	13:30	WKLL	Kill Well	CIRC DOWN TBG WITH 180 BBLS 10# BRINE. CSG DOWN TO SLOW TRICKLE.
13:30	2.00	15:30	PULT	Pull Tubing	POOH W/ 255-JTS TBG AND FISHING TOOLS. RECOVERED PERF GUN AND SETTING TOOL. MISSING SETTING SLEEVE, STILL ON TOP OF CBP.
15:30	1.50	17:00	FBCK	Flowback Well	WELL STARTED FLOWING 20 BPH, DISARM AND BREAK DOWN PERF GUN. TURN WELL OVER TO FBC, FLOWING 40 BPH.
17:00	13.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED OVER TO FBC FOR NIGHT.

**FD 03-29D-2-2 5/23/2014 06:00 - 5/24/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53765	UT	Uintah	Fort Duchesne	PRODUCING	9,450.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	2.00	09:00	FBCK	Flowback Well	WELL FLOWING TO TREATER, 120 PSI ON 48/64" COKE AND 13 BPH. OPEN TO FB TANK TO GET PRESSURE DOWN. MU SPEAR, DRAIN SUB, BUMPER SUB, JAR, X-OVER, AND TBG SUB. WELL DOWN TO LIGHT TRICKLE.
09:00	1.50	10:30	RUTB	Run Tubing	OPEN WELL AND RIH W/ FISHING TOOLS ON 259-JTS TBG. TAG PLUG AT 8248'.
10:30	0.50	11:00	GOP	General Operations	WORK SPEAR AT PLUG ATTEMPTING TO LATCH ONTO SLEEVE. PUMP DOWN TBG AS WORK TBG TO LATCH SLEEVE. NEVER PULLED OVER.
11:00	3.00	14:00	PULT	Pull Tubing	POOH W/ 259-JTS TBG AND FISHING TOOLS. RECOVERED SLEEVE.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
14:00	1.50	15:30	RUTB	Run Tubing	MU AND RIH W/ 4-3/4" BIT, FLOAT SUB, BIT SUB, 1-JT, X-N NIPPLE AND TBG TO TAG PLUG.
15:30	0.50	16:00	SRIG	Rig Up/Down	RU PWR SWIVEL AND EST CIRC.
16:00	2.50	18:30	DOPG	Drill Out Plugs	CBP #1 AT 8248'. 0' SAND. D/O IN 2 MIN. FCP AT 200 PSI. RIH CBP #2 AT 8654'. 5' SAND. D/O IN 12 MIN. FCP AT 1000 PSI ON 16/64" CHOKE. RIH. CBP #3 AT 8945'. 17' SAND. D/O IN 10 MIN. FCP AT 1200 PSI ON 16/64" CHOKE. RIH. TAG SAND AT 51'. C/O FILL TO 9349' W/ 294-JTS IN. CIRC CLEAN. RD PWR SWIVEL.
18:30	0.50	19:00	PULT	Pull Tubing	POOH AS LD 38-JTS. EOT AT 8189'. TURN OVER TO FB CREW AND PRODUCTION AS FLOW UP CSG TO TREATER.
19:00	11.00	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED OVER TO FBC AND PRODUCTION.

**FD 03-29D-2-2 5/26/2014 06:00 - 5/27/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE (7 TANKS). WELL FLOWING TO PRODUCTION

**FD 03-29D-2-2 5/27/2014 06:00 - 5/28/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING TO TREATER. 100 PSI ON 48/64" MAKING 3 BWP.
07:00	1.00	08:00	FBCK	Flowback Well	OPEN WELL TO FBT. HAVE LIGHT FLOW AT 0 PSI.
08:00	1.50	09:30	WKLL	Kill Well	PUMP 190 BBLs 2% KCL AROUND THEN 20 BBLs 10# DOWN TBG.
09:30	4.50	14:00	PULT	Pull Tubing	POOH AS LD 256-JTS 2-7/8" L-80 TBG.
14:00	2.00	16:00	WLWK	Wireline	RU CASED HOLE SOLUTION. PU SETTING TOOLS AND 5-1/2" EXELIS CBP. CORRELATE TO SJ AT 7817'-7841'. RUN DOWN AND SET CBP AT 8292' WITH 0 PSI. POOH AND RD CASED HOLE.
16:00	1.00	17:00	BOPR	Remove BOP's	RD FLOOR. ND HYDRIL AND BOP. NU 5" 10K FRAC VALVES AND FRAC HEAD.
17:00	0.50	17:30	SRIG	Rig Up/Down	RDSU. MOVE TO EDGE OF LOCATION. RIG CREW TRAVEL.
17:30	1.00	18:30	SRIG	Rig Up/Down	SPOT AND RU CASED HOLE WITH 5" 10K LUBE.
18:30	1.00	19:30	PFRT	Perforating	PERF STG #4- PU GUNS FOR STAGE 4 INTO LUBE. OPEN WELL AND RIH. CORRELATE TO SJ AT 7817'-7841'. RUN DOWN AND PERF TGR3 AND DOUGLAS CREEK FORM 7962'-8224' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2100 PSI.
19:30	10.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE

**FD 03-29D-2-2 5/28/2014 06:00 - 5/29/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.10	06:06	CTRL	Crew Travel	HES ARRIVE ON LOC @ 5AM TO RIG UP. 7AM RIG UP COMPLETE
06:06	1.30	07:24	SRIG	Rig Up/Down	SAFTEY MEETING DISCUSSED RED ZONES, SMOKING AREAS, REQUIRED PPE, OVERHEAD LOADS AND MUSTER AREAS.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:24	2.00	09:24	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 240 PSI AT 07:52AM BREAK DOWN 3084 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10. BPM AT 2360 PSI. FLUSH W/ 7774 GAL. 30.0 BPM AT 3295 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 71 BPM AT 4035 PSI. ISDP 2151. FG .71. PERFS OPEN 29/45  "SUCKED AIR ON GROWLER DUE TO NOT MANAGING WATER TANKS PROPERLY, LOST TUB ON BLENDER CUT SAND ON 5LB STAGE DROPPED RATE, REGAINED PRIME ON EQUIPMENT WENT BACK TO 5LB SAND PUMPED DESIGN VOLUME OF SAND".  ISIP 2013, FG .69, MR 71.3 BPM, AR 62.1 BPM, MP 4334 PSI, AP 3336 PSI 100 MESH 88,20 lbs .75 ppg 20/40 WHITE 150,400 lbs 2, 2.15-5, 5 ppg SLK WTR 977 BBL, 20# HYBOR G (16) 1786 BBL, BTR 2856 BBL  TURN OVER TO CASEDHOLE.
09:24	1.00	10:24	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 2000 PSI. RIH AND CORRELATE TO SHORT JT 7817'-7841. SET KILL PLUG AT 7857' WITH 1800 PSI. BLEED OFF AS POOH.
10:24	3.00	13:24	SRIG	Rig Up/Down	RDMO HES AND CASEDHOLE.
13:24	16.60	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE. STACK WTR. MOVE OFF FRAC LINE.

**FD 03-29D-2-2 5/29/2014 06:00 - 5/30/2014 06:00**

API 43-047-53765	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,450.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL HOLD SAFETY MEETING.
07:00	2.00	09:00	SRIG	Rig Up/Down	RIG UP RIG AND LOAD 307 JOINTS ON PIPE RACKS
09:00	7.50	16:30	DOPG	Drill Out Plugs	RIH F/ SURFACE W/ 4-3/4 BIT, R/U SWIVEL. BREAK CIRC. D/O CBP @ 7857'. FCP- 900 ON 26/64 CHOKE. SWIVEL IN HOLE, TAG SAND @ 8257'. C/O SAND & D/O CBP @ 8292'. FCP- 700 ON 28/64 CHOKE. SWIVEL IN HOLE. TAG SAND @ 9316'. C/O SAND TO F/C @ 9349'. D/O F/C. C/O CMT TO 9417' PBD. 296 JTS. CIRC WELL CLEAN. R/D SWIVEL.
16:30	2.00	18:30	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 7834' & LAND TBG. 246 JTS TOTAL IN HOLE. 61 JOINTS LEFT ON PIPE RACKS. SDFN FLOWING OVERNIGHT THROUGH TREATER
18:30	11.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

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

AMENDED REPORT  FORM 8  
(highlight changes)

<b>WELL COMPLETION OR RECOMPLETION REPORT AND LOG</b>		5. LEASE DESIGNATION AND SERIAL NUMBER: <b>Fee</b>
1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR: <b>Bill Barrett Corporation</b>		8. WELL NAME and NUMBER: <b>FD 3-29D-2-2</b>
3. ADDRESS OF OPERATOR: <b>1099 18th St Ste 2300</b> CITY <b>Denver</b> STATE <b>CO</b> ZIP <b>80202</b>		9. API NUMBER: <b>4304753765</b>
PHONE NUMBER: <b>(303) 293-9100</b>		10 FIELD AND POOL, OR WILDCAT <b>Undesignated</b>
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: <b>300 FNL 1925 FWL</b>  AT TOP PRODUCING INTERVAL REPORTED BELOW: <b>778 FNL 2001 FWL</b>  AT TOTAL DEPTH: <b>803 FNL 2031 FWL</b>		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: <b>NENW 29 2S 2E U</b>
12. COUNTY <b>Uintah</b>		13. STATE <b>UTAH</b>

14. DATE SPUDDED: <b>2/27/2014</b>	15. DATE T.D. REACHED: <b>4/29/2014</b>	16. DATE COMPLETED: <b>5/21/2014</b> ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): <b>5076 GL</b>
18. TOTAL DEPTH: MD <b>9,450</b> TVD <b>9,417</b>	19. PLUG BACK T.D.: MD <b>9,350</b> TVD <b>9,317</b>	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)  
**TRIPLE COMBO/MUD**

23.  
 WAS WELL CORED? NO  YES  (Submit analysis)  
 WAS DST RUN? NO  YES  (Submit report)  
 DIRECTIONAL SURVEY? NO  YES  (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24	16 Conq	65#	0	80	80			0	
12 1/4	8 5/8 J-55	24#	0	1,263	1,237	Lead 150	102	0	
						Tail 515	106		
7 7/8	5 1/2 I-80	17#	0	9,450	9,440	Lead 540	225	5768	
						Tail 640	165		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7,985							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Green River	7,962	9,290			7,962 9,290	.38	177	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7962-9290	Green River: See attached Stage 1-4

29. ENCLOSED ATTACHMENTS: <input checked="" type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____ <input checked="" type="checkbox"/> DIRECTIONAL SURVEY	30. WELL STATUS:  <b>POW</b>
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31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/21/2014		TEST DATE: 5/30/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 194	GAS - MCF: 48	WATER - BBL: 246	PROD. METHOD: Flowing
CHOKE SIZE: 24/64	TBG. PRESS. 140	CSG. PRESS. 475	API GRAVITY 31.37	BTU - GAS 1	GAS/OIL RATIO 247	24 HR PRODUCTION RATES: →	OIL - BBL: 194	GAS - MCF: 48	WATER - BBL: 246	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	5,678
				Mahogany	6,784
				TGR3	7,955
				Douglas Creek	8,130
				Black Shale Facies	8,594
				Castle Peak	8,684
				Uteland Butte	8,910
				Wasatch	9,396
				TD	9,450

35. ADDITIONAL REMARKS (Include plugging procedure)

TOC calculated by CBL. Conductor cemented with grout. First gas sales 5/21/2014; first oil sales 5/31/2014

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Christina Hirtler TITLE Permit Analyst  
 SIGNATURE \_\_\_\_\_ DATE 6/23/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340  
 1594 West North Temple, Suite 1210  
 Box 145801 Fax: 801-359-3940  
 Salt Lake City, Utah 84114-5801

**3-29D-2-2 FD**

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><i>Stage</i></b>	<b><i>bbls Slurry</i></b>	<b><i>lbs Common White 100 Mesh Sand</i></b>	<b><i>lbs 20/40 Premium White</i></b>	<b><i>gal 15% HCl Acid</i></b>
1	3701	7969	150,831	4,400
2	2423	8084	151,316	3,900
3	2519	8241	151,059	3,900
4	2856	8820	150,380	3,900

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



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 3-29D-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 29 T2S, R2E	<b>MD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Well:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

<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 29 T2S, R2E		
<b>Site Position:</b>		<b>Northing:</b>	11,165,470.44 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,116,194.83 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 17' 12.120 N
		<b>Longitude:</b>	109° 47' 45.920 W
		<b>Grid Convergence:</b>	1.04 °

<b>Well</b>	FD 3-29D-2-2, SHL:					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,165,470.43 usft	<b>Latitude:</b>	40° 17' 12.120 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	2,116,194.83 usft	<b>Longitude:</b>	109° 47' 45.920 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	5,090.0 usft	<b>Ground Level:</b>	5,075.0 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	4/15/2014	10.88	65.97	52,161

<b>Design</b>	Actual				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<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	168.06

<b>Survey Program</b>	Date 4/30/2014				
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
1,246.0	9,450.0	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 3-29D-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 29 T2S, R2E	<b>MD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Well:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,246.0	0.22	135.68	1,246.0	2.0	-1.7	1.7	0.02	0.02	0.00
1,330.0	0.88	182.17	1,330.0	2.8	-2.5	1.8	0.89	0.79	55.35
1,416.0	2.21	172.17	1,416.0	5.1	-4.8	2.0	1.57	1.55	-11.63
1,502.0	3.58	177.68	1,501.8	9.4	-9.1	2.3	1.62	1.59	6.41
1,587.0	4.20	180.58	1,586.7	15.0	-14.9	2.4	0.77	0.73	3.41
1,673.0	5.48	183.80	1,672.3	22.1	-22.1	2.1	1.52	1.49	3.74
1,759.0	6.58	180.50	1,757.9	30.8	-31.1	1.8	1.34	1.28	-3.84
1,844.0	7.29	181.77	1,842.2	40.8	-41.4	1.5	0.85	0.84	1.49
1,930.0	7.69	181.46	1,927.5	51.7	-52.6	1.2	0.47	0.47	-0.36
2,015.0	8.40	181.38	2,011.7	63.3	-64.5	0.9	0.84	0.84	-0.09
2,101.0	9.01	180.76	2,096.7	76.0	-77.5	0.7	0.72	0.71	-0.72
2,186.0	9.41	179.09	2,180.6	89.3	-91.1	0.7	0.57	0.47	-1.96
2,271.0	9.90	172.17	2,264.4	103.4	-105.3	1.8	1.48	0.58	-8.14
2,356.0	9.41	171.77	2,348.2	117.6	-119.4	3.8	0.58	-0.58	-0.47
2,443.0	10.12	167.98	2,433.9	132.4	-133.9	6.4	1.10	0.82	-4.36
2,529.0	10.61	168.99	2,518.5	147.8	-149.1	9.5	0.61	0.57	1.17
2,616.0	10.38	167.10	2,604.1	163.7	-164.6	12.8	0.48	-0.26	-2.17
2,701.0	9.50	167.36	2,687.8	178.3	-178.9	16.0	1.04	-1.04	0.31
2,787.0	9.99	169.79	2,772.5	192.9	-193.2	18.9	0.74	0.57	2.83
2,872.0	9.59	169.88	2,856.3	207.3	-207.4	21.5	0.47	-0.47	0.11
2,958.0	9.10	170.36	2,941.2	221.3	-221.2	23.9	0.58	-0.57	0.56
3,043.0	9.72	172.70	3,025.0	235.2	-234.9	25.9	0.86	0.73	2.75
3,128.0	9.28	172.87	3,108.9	249.2	-248.8	27.7	0.52	-0.52	0.20
3,214.0	9.72	170.58	3,193.7	263.3	-262.9	29.7	0.67	0.51	-2.66
3,300.0	8.88	171.99	3,278.5	277.2	-276.6	31.8	1.01	-0.98	1.64
3,385.0	8.79	170.98	3,362.5	290.2	-289.5	33.7	0.21	-0.11	-1.19



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 3-29D-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 29 T2S, R2E	<b>MD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Well:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
3,474.0	9.01	169.70	3,450.5	304.0	-303.1	36.1	0.33	0.25	-1.44
3,562.0	8.31	170.27	3,537.5	317.2	-316.1	38.4	0.80	-0.80	0.65
3,647.0	8.62	172.39	3,621.5	329.7	-328.5	40.2	0.52	0.36	2.49
3,732.0	9.28	171.68	3,705.5	342.9	-341.6	42.1	0.79	0.78	-0.84
3,818.0	8.62	172.87	3,790.5	356.2	-354.8	43.9	0.80	-0.77	1.38
3,902.0	7.91	172.08	3,873.6	368.3	-366.8	45.5	0.86	-0.85	-0.94
3,986.0	7.29	171.29	3,956.8	379.4	-377.8	47.1	0.75	-0.74	-0.94
4,071.0	7.20	170.80	4,041.2	390.1	-388.4	48.7	0.13	-0.11	-0.58
4,156.0	6.01	168.38	4,125.6	399.8	-398.0	50.5	1.44	-1.40	-2.85
4,242.0	5.30	166.39	4,211.2	408.3	-406.3	52.3	0.86	-0.83	-2.31
4,327.0	4.68	168.29	4,295.9	415.7	-413.5	54.0	0.75	-0.73	2.24
4,414.0	5.30	166.88	4,382.5	423.3	-420.9	55.6	0.73	0.71	-1.62
4,500.0	4.42	170.36	4,468.2	430.6	-428.0	57.0	1.08	-1.02	4.05
4,586.0	3.58	177.98	4,554.0	436.5	-434.0	57.7	1.15	-0.98	8.86
4,671.0	2.78	174.99	4,638.9	441.2	-438.7	58.0	0.96	-0.94	-3.52
4,758.0	1.68	162.87	4,725.8	444.5	-442.0	58.5	1.37	-1.26	-13.93
4,843.0	0.71	184.29	4,810.8	446.3	-443.7	58.9	1.24	-1.14	25.20
4,929.0	0.80	182.88	4,896.8	447.4	-444.8	58.8	0.11	0.10	-1.64
5,015.0	0.22	172.48	4,982.8	448.1	-445.6	58.8	0.68	-0.67	-12.09
5,102.0	0.09	77.60	5,069.8	448.3	-445.8	58.9	0.28	-0.15	-109.06
5,188.0	0.49	157.10	5,155.8	448.7	-446.1	59.1	0.56	0.47	92.44
5,274.0	0.62	146.98	5,241.8	449.4	-446.8	59.5	0.19	0.15	-11.77
5,360.0	0.80	141.98	5,327.8	450.4	-447.7	60.1	0.22	0.21	-5.81
5,445.0	0.49	142.69	5,412.8	451.3	-448.4	60.7	0.36	-0.36	0.84
5,532.0	0.49	157.49	5,499.8	452.0	-449.1	61.0	0.15	0.00	17.01
5,618.0	0.80	169.88	5,585.8	452.9	-450.0	61.3	0.39	0.36	14.41
5,704.0	0.80	181.20	5,671.7	454.1	-451.2	61.4	0.18	0.00	13.16



## Payzone Directional

## End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 3-29D-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 29 T2S, R2E	<b>MD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Well:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
5,789.0	0.88	172.48	5,756.7	455.4	-452.4	61.5	0.18	0.09	-10.26	
5,874.0	0.22	232.58	5,841.7	456.1	-453.2	61.4	0.93	-0.78	70.71	
5,960.0	0.49	354.30	5,927.7	455.8	-452.9	61.2	0.74	0.31	141.53	
6,047.0	0.88	205.39	6,014.7	455.9	-453.1	60.9	1.52	0.45	-171.16	
6,176.0	2.92	219.17	6,143.6	458.8	-456.6	58.4	1.61	1.58	10.68	
6,262.0	1.59	213.99	6,229.6	461.0	-459.3	56.4	1.56	-1.55	-6.02	
6,348.0	1.10	151.50	6,315.6	462.6	-461.0	56.1	1.69	-0.57	-72.66	
6,433.0	0.80	171.99	6,400.5	464.0	-462.3	56.6	0.53	-0.35	24.11	
6,519.0	0.31	102.19	6,486.5	464.7	-462.9	56.9	0.87	-0.57	-81.16	
6,604.0	0.62	97.76	6,571.5	464.9	-463.0	57.6	0.37	0.36	-5.21	
6,690.0	0.71	106.59	6,657.5	465.4	-463.3	58.5	0.16	0.10	10.27	
6,767.0	0.88	106.55	6,734.5	465.9	-463.6	59.6	0.22	0.22	-0.05	
6,852.0	1.10	117.26	6,819.5	466.7	-464.1	60.9	0.34	0.26	12.60	
6,939.0	1.02	113.78	6,906.5	467.7	-464.8	62.4	0.12	-0.09	-4.00	
7,024.0	1.02	122.19	6,991.5	468.6	-465.5	63.7	0.18	0.00	9.89	
7,109.0	1.10	125.06	7,076.5	469.8	-466.4	65.0	0.11	0.09	3.38	
7,195.0	1.19	132.29	7,162.5	471.1	-467.5	66.3	0.20	0.10	8.41	
7,280.0	1.19	140.00	7,247.4	472.6	-468.7	67.6	0.19	0.00	9.07	
7,364.0	1.02	147.80	7,331.4	474.1	-470.0	68.5	0.27	-0.20	9.29	
7,449.0	1.02	142.38	7,416.4	475.4	-471.3	69.4	0.11	0.00	-6.38	
7,534.0	1.02	141.36	7,501.4	476.8	-472.5	70.3	0.02	0.00	-1.20	
7,620.0	0.88	134.58	7,587.4	478.0	-473.5	71.3	0.21	-0.16	-7.88	
7,705.0	1.19	135.77	7,672.4	479.3	-474.6	72.3	0.37	0.36	1.40	
7,791.0	0.88	132.46	7,758.4	480.6	-475.7	73.5	0.37	-0.36	-3.85	
7,876.0	1.02	131.67	7,843.3	481.8	-476.7	74.5	0.17	0.16	-0.93	
7,962.0	1.10	137.00	7,929.3	483.1	-477.8	75.6	0.15	0.09	6.20	
8,047.0	1.02	144.27	8,014.3	484.5	-479.0	76.6	0.18	-0.09	8.55	



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 3-29D-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Site:</b>	SECTION 29 T2S, R2E	<b>MD Reference:</b>	FD 3-29D-2-2 @ 5090.0usft (CAPSTAR 330)
<b>Well:</b>	FD 3-29D-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

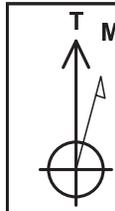
Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
8,134.0	1.02	140.88	8,101.3	485.9	-480.2	77.6	0.07	0.00	-3.90	
8,220.0	1.41	129.07	8,187.3	487.4	-481.5	78.9	0.54	0.45	-13.73	
8,305.0	1.50	133.30	8,272.3	489.1	-482.9	80.5	0.16	0.11	4.98	
8,390.0	1.59	136.78	8,357.2	491.0	-484.5	82.1	0.15	0.11	4.09	
8,476.0	1.50	132.09	8,443.2	493.0	-486.1	83.8	0.18	-0.10	-5.45	
8,561.0	1.59	134.09	8,528.2	494.8	-487.7	85.4	0.12	0.11	2.35	
8,647.0	1.68	129.29	8,614.1	496.8	-489.3	87.3	0.19	0.10	-5.58	
8,732.0	1.81	129.07	8,699.1	498.8	-491.0	89.3	0.15	0.15	-0.26	
8,818.0	1.81	133.87	8,785.0	501.0	-492.8	91.3	0.18	0.00	5.58	
8,904.0	1.81	131.62	8,871.0	503.2	-494.6	93.3	0.08	0.00	-2.62	
8,990.0	1.67	126.14	8,957.0	505.2	-496.3	95.3	0.25	-0.16	-6.37	
9,075.0	1.68	119.07	9,041.9	507.0	-497.6	97.4	0.24	0.01	-8.32	
9,163.0	1.68	119.29	9,129.9	508.7	-498.8	99.7	0.01	0.00	0.25	
9,248.0	1.59	120.48	9,214.9	510.3	-500.1	101.8	0.11	-0.11	1.40	
9,334.0	1.68	123.78	9,300.8	512.0	-501.4	103.9	0.15	0.10	3.84	
9,394.0	1.50	127.66	9,360.8	513.2	-502.3	105.2	0.35	-0.30	6.47	
9,450.0	1.50	127.66	9,416.8	514.3	-503.2	106.4	0.00	0.00	0.00	

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

Sundry Number: 52343 API Well Number: 43047537650000

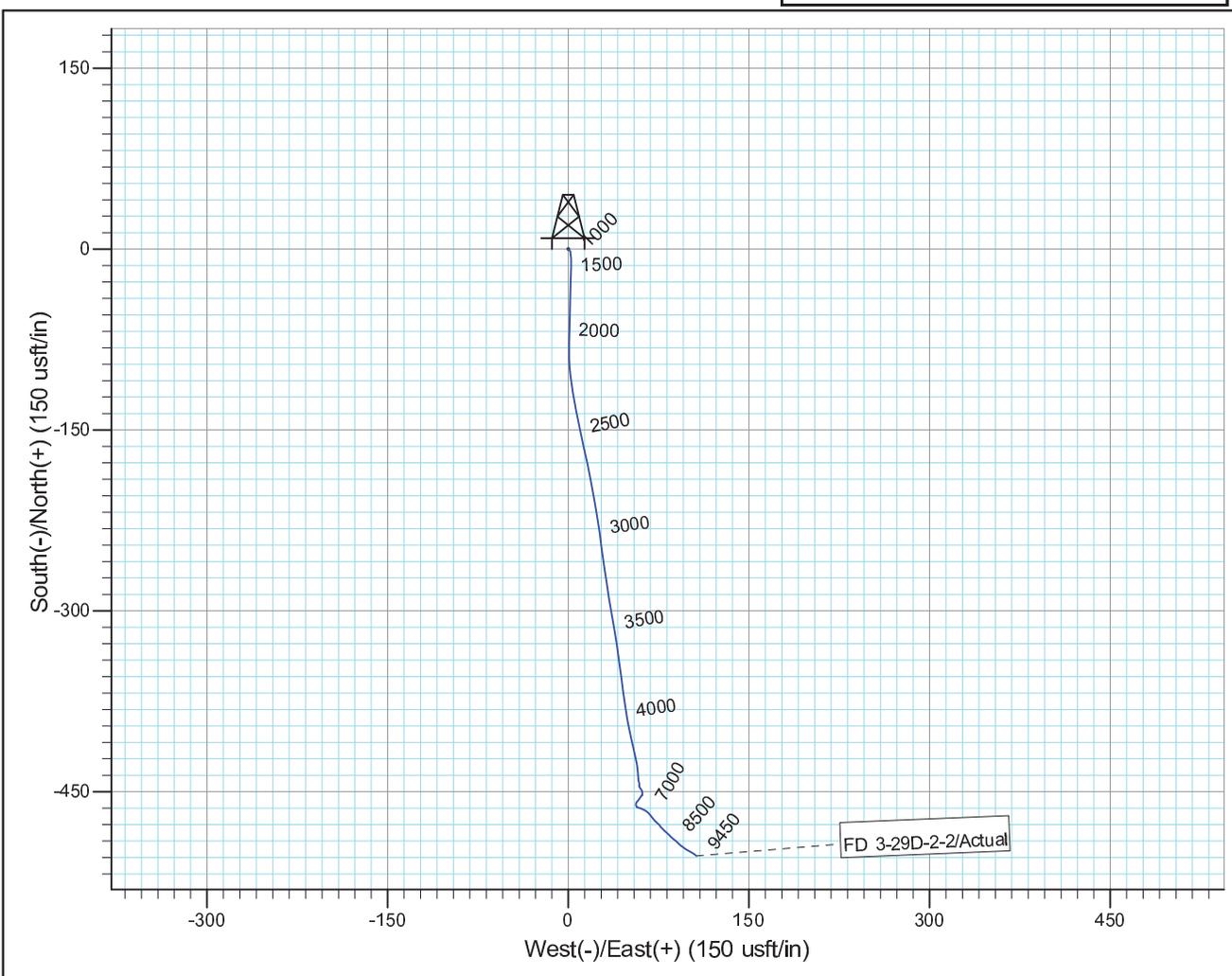
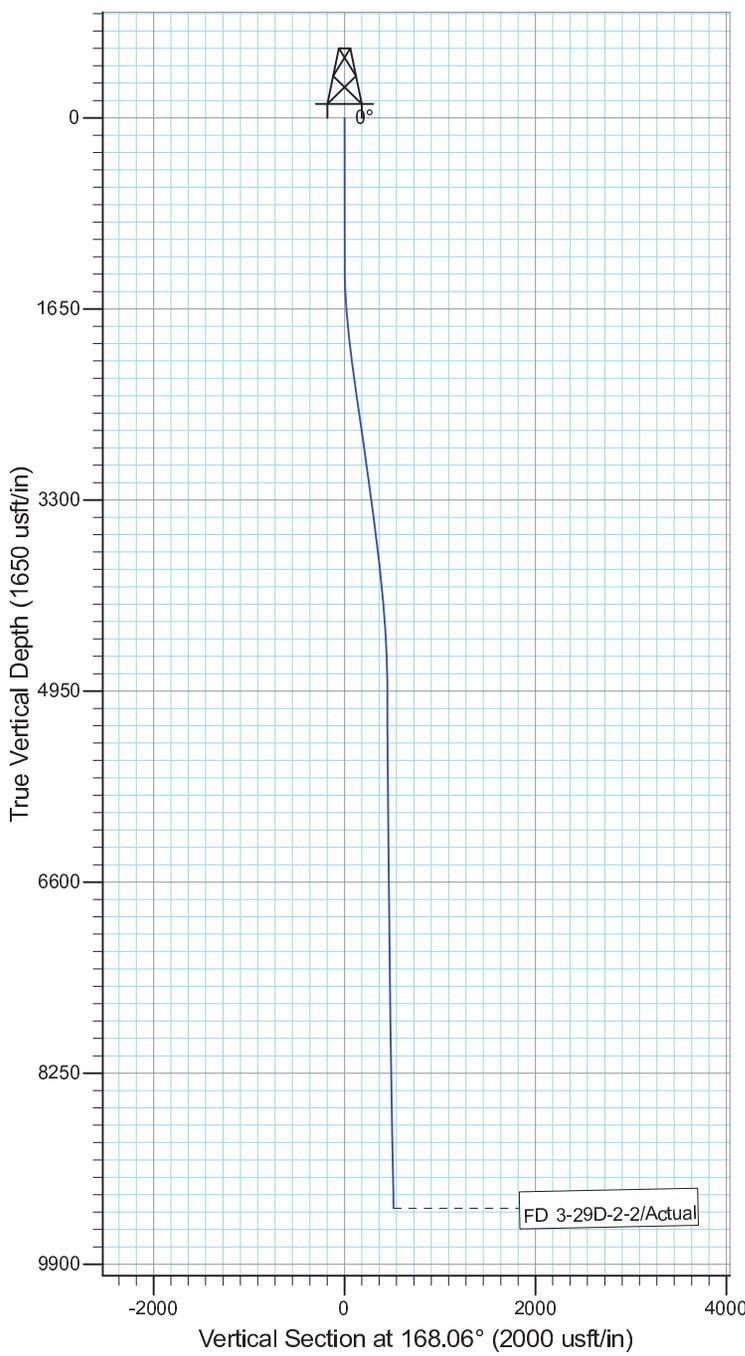


Project: Fort Duchesne  
Site: SECTION 29 T2S, R2E  
Well: FD 3-29D-2-2  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 10.87°

Magnetic Field  
Strength: 52161.3snT  
Dip Angle: 65.97°  
Date: 4/15/2014  
Model: IGRF2010



Design: Actual (FD 3-29D-2-2/Wellbore #1)

Created By: *Matthew Linton* Date: 13:13, April 30 2014

THIS SURVEY IS CORRECT TO THE BEST OF MY KNOWLEDGE AND IS SUPPORTED BY ACTUAL FIELD DATA

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 3-29D-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537650000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0300 FNL 1925 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NENW Section: 29 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/11/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="PIT CLOSED"/>

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

THE PIT WAS CLOSED ON 6/11/2014.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
January 09, 2015**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/8/2015	