

**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 7-31-2-2					
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 WILDCAT					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8134					
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) fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') TRACY 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 type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		2020 FNL 2160 FEL		SWNE	31	2.0 S	2.0 E	U			
Top of Uppermost Producing Zone		2020 FNL 2160 FEL		SWNE	31	2.0 S	2.0 E	U			
At Total Depth		2020 FNL 2160 FEL		SWNE	31	2.0 S	2.0 E	U			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 420			23. NUMBER OF ACRES IN DRILLING UNIT 640					
27. ELEVATION - GROUND LEVEL 5031			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 1646			26. PROPOSED DEPTH MD: 9685 TVD: 9685					
			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 - 3600	36.0	J-55 ST&C	8.7	Halliburton Light , Type Unknown		550	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
PROD	7.875	5.5	0 - 9685	17.0	P-110 LT&C	9.5	Unknown		550	2.31	11.0
							Unknown		330	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 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 10/24/2013			EMAIL briley@billbarrettcorp.com					
API NUMBER ASSIGNED 43047540690000			APPROVAL			 Permit Manager					

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

**FD 7-31-2-2**

SWNE, 2020' FNL and 2160' FEL, Section 31, T2S-R2E, USB&M (surface hole)

SWNE, 2020' FNL and 2160' FEL, Section 31, 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**

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,404'
Mahogany	6,574'
Lower Green River*	7,675'
Douglas Creek	7,871'
Black Shale	8,429'
Castle Peak	8,524'
Wasatch*	9,185'
TD	9,685'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

Base of Useable Water = 3,669'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 3600'	Rotating Head or Diverter (may pre-set 9-5/8" with smaller rig)
3600' – 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.	

\*See Appendix A

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	3600'	9 5/8"	36#	J or K 55	LT&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation  
 Drilling Program  
 FD 7-31-2-2  
 Uintah County, Utah

### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing (may pre-set with spudder rig)	Lead: 550 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 @ 3100'
5 1/2" Production Casing	Lead: 550 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 3100' Tail: 330 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 @ 7929'

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 3600'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
3600'-5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
5500' – TD	9.4 - 9.5	42 – 58	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.

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4784 psi\* and maximum anticipated surface pressure equals approximately 2653 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)

Bill Barrett Corporation  
Drilling Program  
FD 7-31-2-2  
Uintah County, Utah

**9. Auxiliary Equipment**

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

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

Water for the drilling and completion will be 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: March 2014  
Spud: March 2014  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

**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:**

- 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 on the rig
- 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



# Bill Barrett Corporation

## FORT DUCHESNE CEMENT VOLUMES

**Well Name:** [FD 7-31-2-2](#)

### Surface Hole Data:

Total Depth:	3,600'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	1699.0	ft <sup>3</sup>
Lead Fill:	3,100'	
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:	550
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	3,100'	

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

Total Depth:	9,685'
Top of Cement:	3,100'
Top of Tail:	7,929'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1255.0	ft <sup>3</sup>
Lead Fill:	4,829'	
Tail Volume:	456.4	ft <sup>3</sup>
Tail Fill:	1,756'	

### 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:	550
# SK's Tail:	330

<b>FD 7-31-2-2 Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (3100' - 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: 3,100'
	Volume: 302.59 bbl
	<b>Proposed Sacks: 550 sks</b>
<b>Tail Cement - (TD - 3100')</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: 3,100'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (7929' - 3100')</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: 3,100'
	Calculated Fill: 4,829'
	Volume: 223.50 bbl
	<b>Proposed Sacks: 550 sks</b>
<b>Tail Cement - (9685' - 7929')</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: 7,929'
	Calculated Fill: 1,756'
	Volume: 81.28 bbl
	<b>Proposed Sacks: 330 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.

CONFIDENTIAL

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

BILL BARRETT CORPORATION

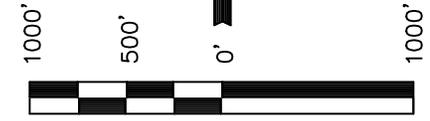
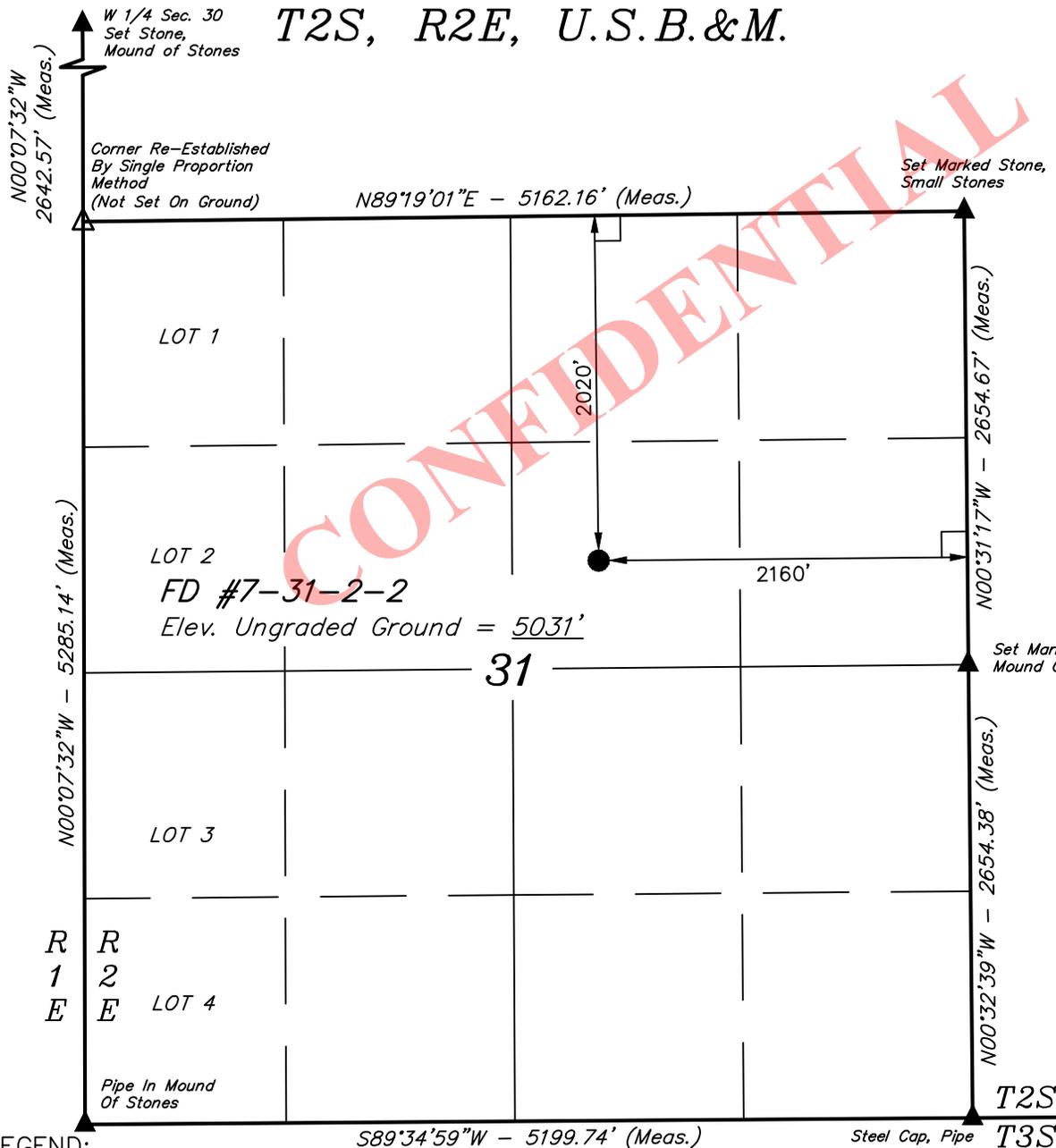
Well location, FD #7-31-2-2, located as shown in the SW 1/4 NE 1/4 of Section 31, T2S, R2E, U.S.B.&M., Uintah County, Utah.

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.



SCALE  
CERTIFICATE

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

ROBERT KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH  
08-22-13

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

NAD 83 (SURFACE LOCATION)	
LATITUDE =	40°16'02.95" (40.267486)
LONGITUDE =	109°48'37.89" (109.810525)
NAD 27 (SURFACE LOCATION)	
LATITUDE =	40°16'03.09" (40.267525)
LONGITUDE =	109°48'35.37" (109.809825)

UTAH ENGINEERING & LAND SURVEYING 85 SOUTH 200 EAST - VERNAL, UTAH 84078 (435) 789-1017		
SCALE 1" = 1000'	DATE SURVEYED: 08-13-13	DATE DRAWN: 08-15-13
PARTY C.R. J.S. S.S.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE BILL BARRETT CORPORATION	

# BILL BARRETT CORPORATION

## FD #7-31-2-2

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 31, T2S, R2E, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHWESTERLY



- Since 1964 -

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

LOCATION PHOTOS

08 | 16 | 13  
MONTH | DAY | YEAR

PHOTO

TAKEN BY: C.R.

DRAWN BY: S.O.

REVISED: 00-00-00

**BILL BARRETT CORPORATION**

LOCATION LAYOUT FOR

FD #7-31-2-2

SECTION 31, T2S, R2E, U.S.B.&M.

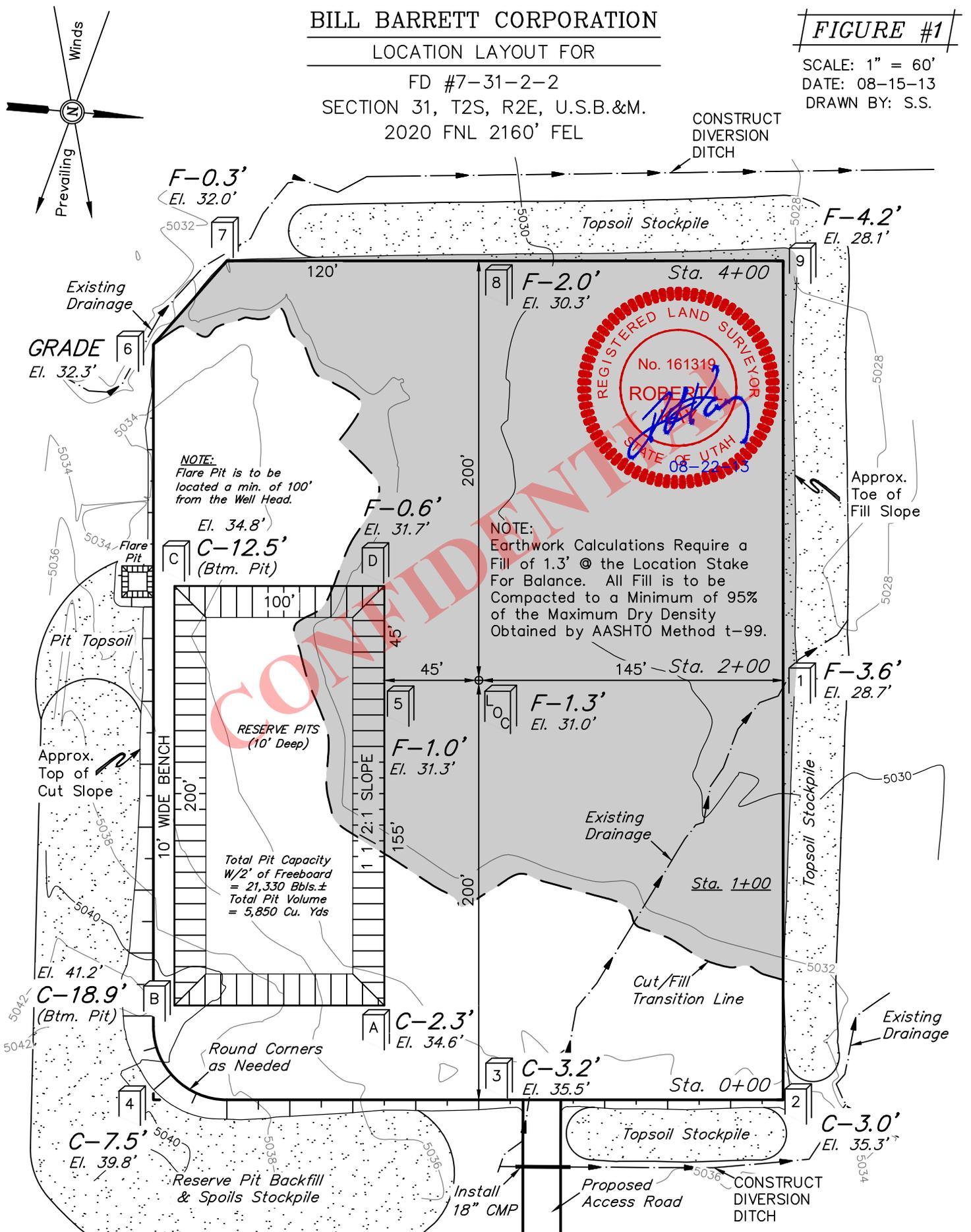
2020 FNL 2160' FEL

**FIGURE #1**

SCALE: 1" = 60'

DATE: 08-15-13

DRAWN BY: S.S.



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

**NOTE:**  
Earthwork Calculations Require a Fill of 1.3' @ the Location Stake For Balance. All Fill is to be Compacted to a Minimum of 95% of the Maximum Dry Density Obtained by AASHTO Method t-99.

**RESERVE PITS (10' Deep)**

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

Reserve Pit Backfill & Spoils Stockpile

Elev. Ungraded Ground At Loc. Stake = 5031.0'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5032.3'

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

RECEIVED: October 24, 2013

**BILL BARRETT CORPORATION**

TYPICAL CROSS SECTIONS FOR

FD #7-31-2-2

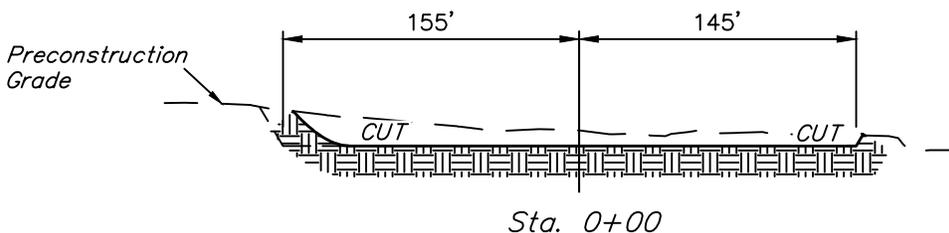
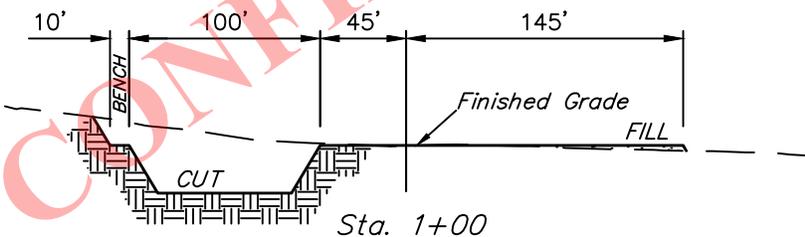
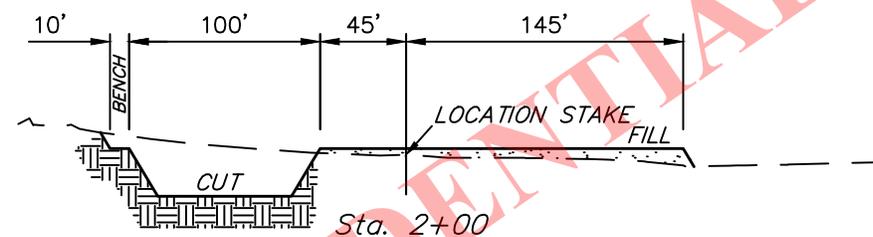
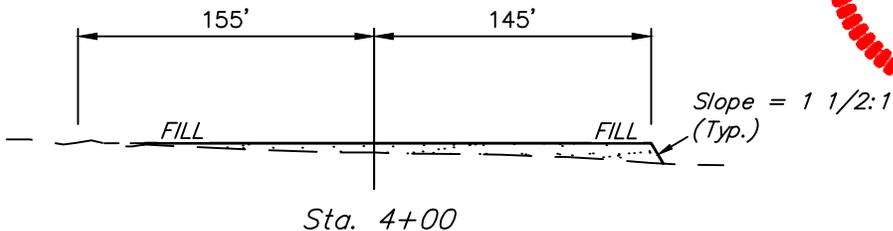
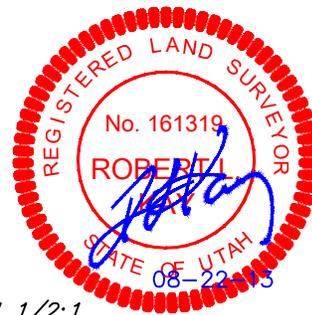
SECTION 31, T2S, R2E, U.S.B.&M.

2020 FNL 2160' FEL

**FIGURE #2**

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

DATE: 08-15-13  
DRAWN BY: S.S.



**NOTE:**

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

APPROXIMATE ACREAGE

WELL SITE DISTURBANCE	= ± 5.033 ACRES
ACCESS ROAD DISTURBANCE	= ± 0.857 ACRES
PIPELINE DISTURBANCE	= ± 0.853 ACRES
<b>TOTAL</b>	<b>= ± 6.743 ACRES</b>

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,330 Cu. Yds.
Remaining Location	= 9,130 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,460 CU. YDS.</b>
<b>FILL</b>	<b>= 6,200 CU. YDS.</b>

EXCESS MATERIAL	= 5,260 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,260 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 #7-31-2-2

SECTION 31, T2S, R2E, U.S.B.&M.

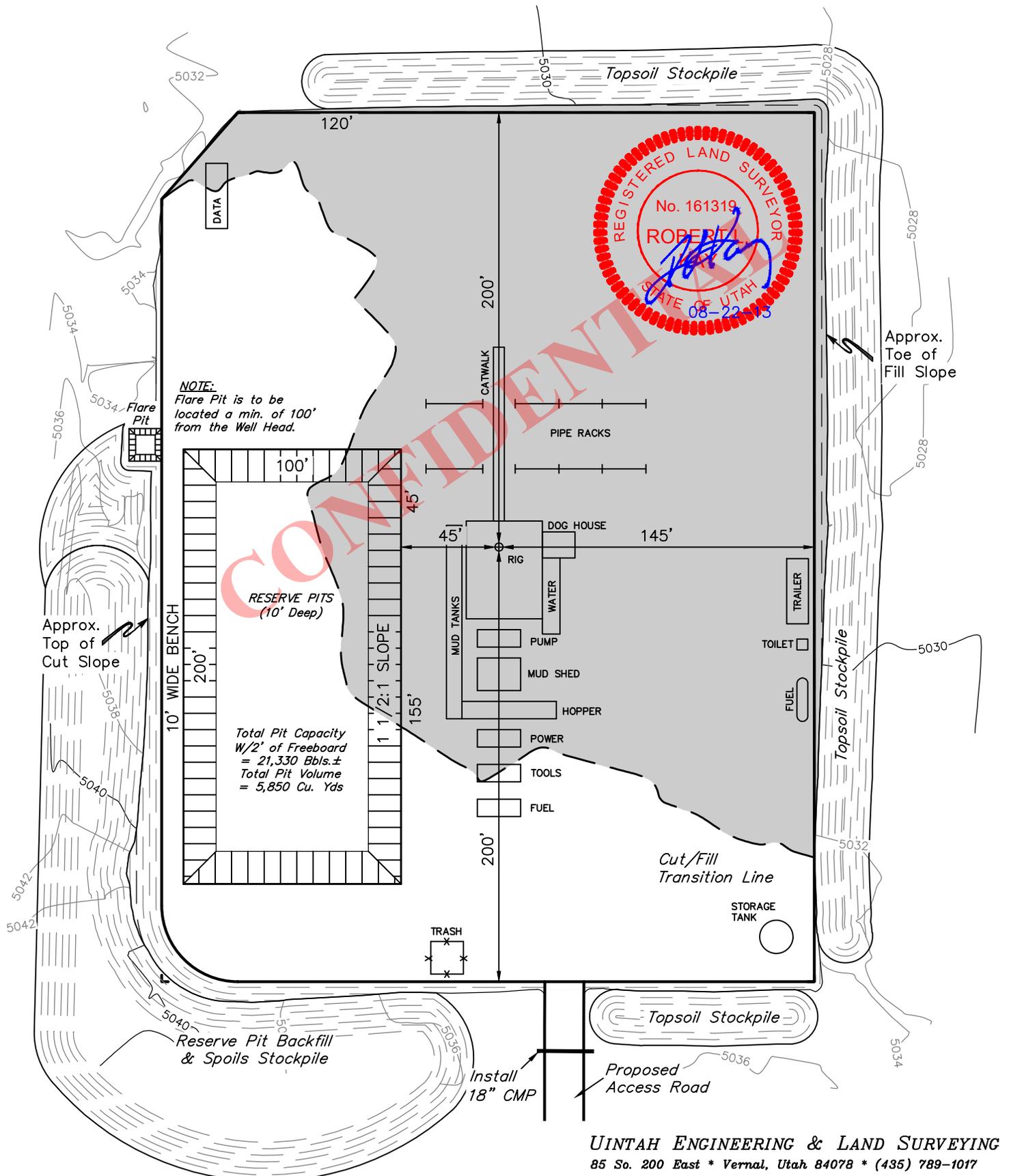
2020 FNL 2160' FEL

**FIGURE #3**

SCALE: 1" = 60'

DATE: 08-15-13

DRAWN BY: S.S.



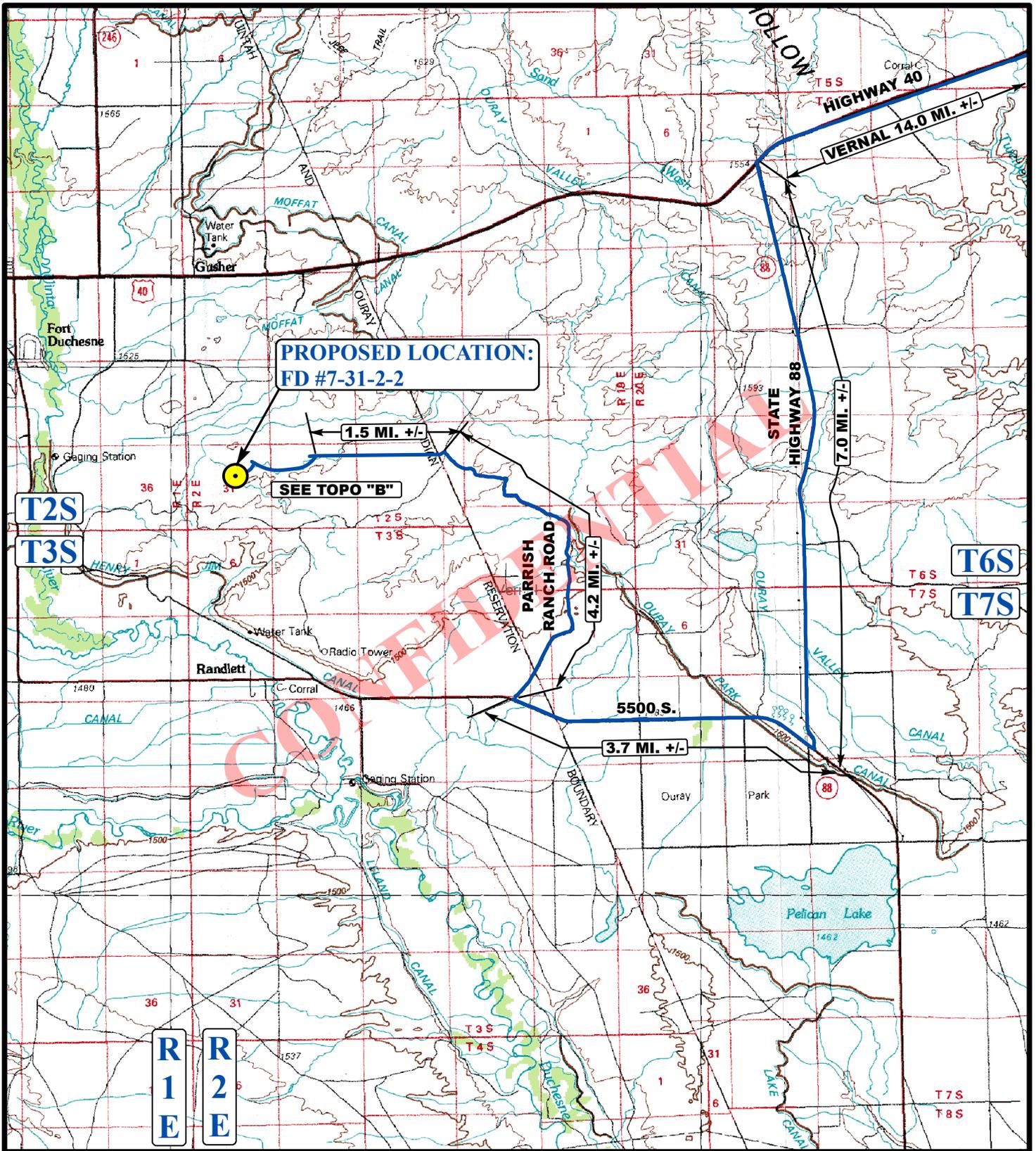
# BILL BARRETT CORPORATION

FD #7-31-2-2

SECTION 31, T2S, R2E, U.S.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND 5500 S. TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY, THEN WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 3.7 MILES TO THE JUNCTION OF THIS ROAD AND PARRISH RANCH ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN NORTHERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 4.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.8 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHWEST; FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APROXIMATELY 1,300' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 31.4 MILES.



**PROPOSED LOCATION:  
FD #7-31-2-2**

**SEE TOPO "B"**

**T2S  
T3S**

**T6S  
T7S**

**R  
1  
E  
  
R  
2  
E**

**LEGEND:**

**PROPOSED LOCATION**



**BILL BARRETT CORPORATION**

**FD #7-31-2-2  
SECTION 31, T2S, R2E, U.S.B.&M.  
2020' FNL 2160' FEL**



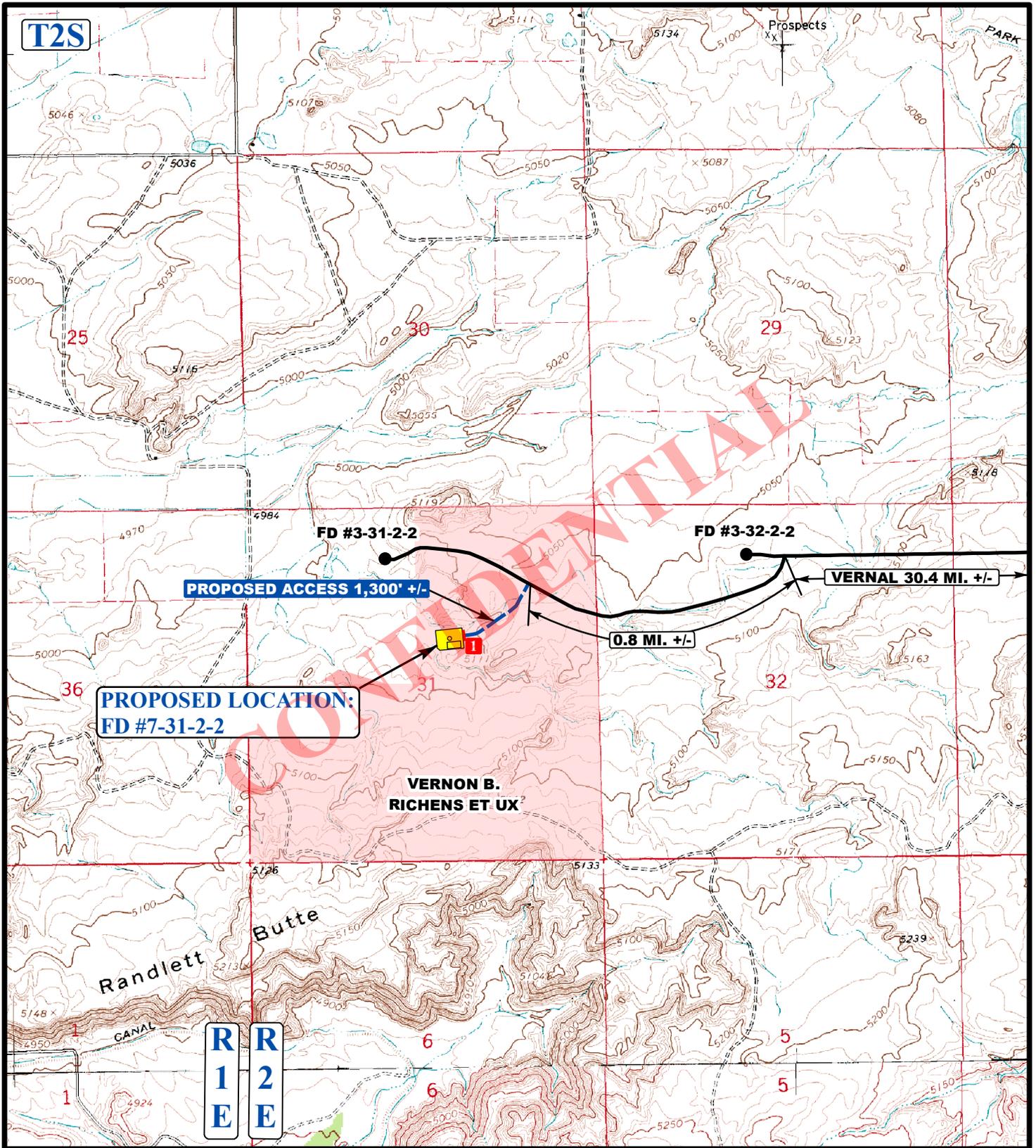
**Utah Engineering & Land Surveying**  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

**ACCESS ROAD  
MAP**

**08 16 13**  
MONTH DAY YEAR



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



**LEGEND:**

-  EXISTING ROADS
-  PROPOSED ACCESS ROAD
-  18" CMP REQUIRED



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

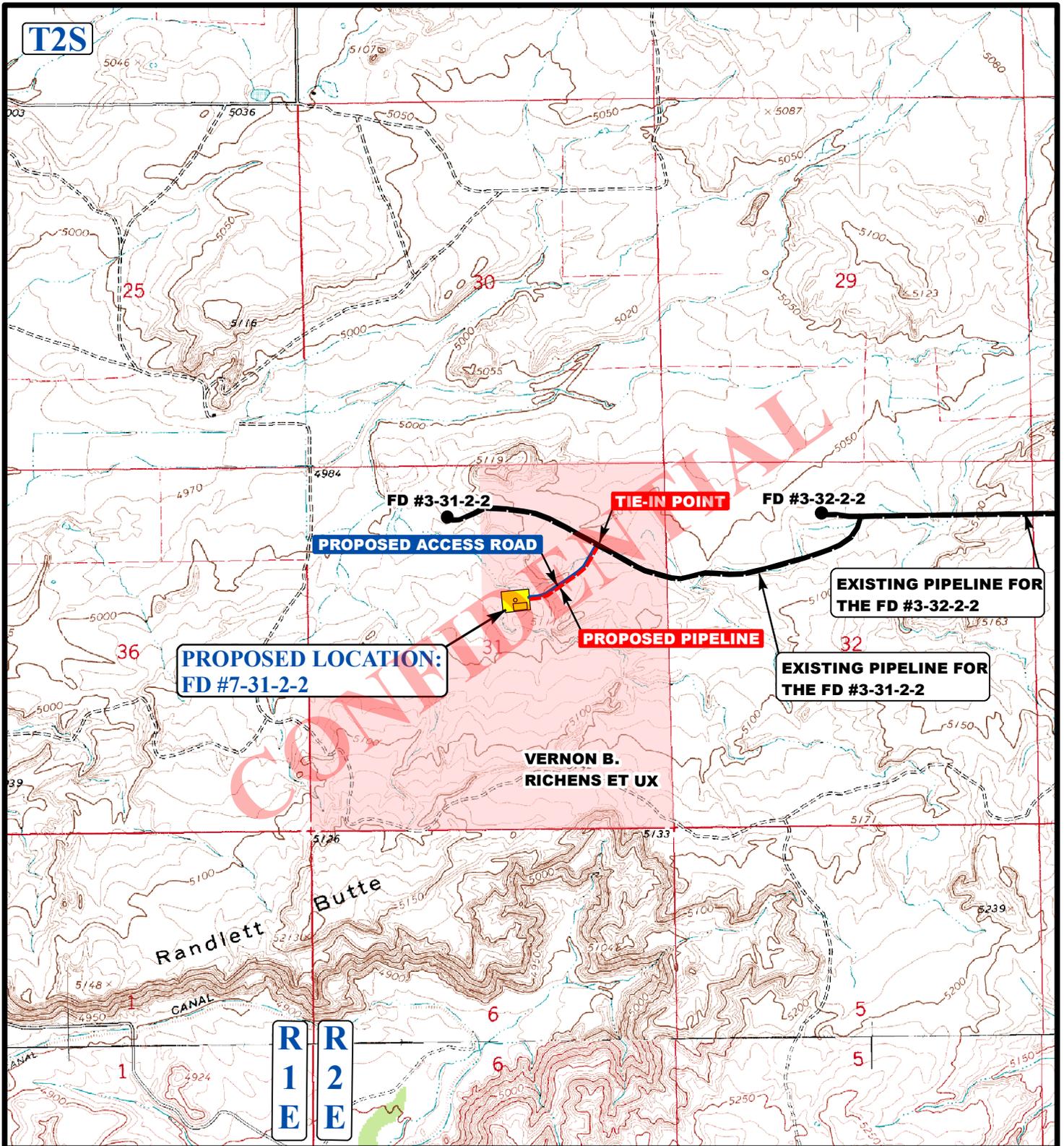
**FD #7-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**2020' FNL 2160' FEL**

**ACCESS ROAD**  
**MAP**

<b>08</b>	<b>16</b>	<b>13</b>
MONTH	DAY	YEAR



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



**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,315' +/-**

**LEGEND:**

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



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**BILL BARRETT CORPORATION**

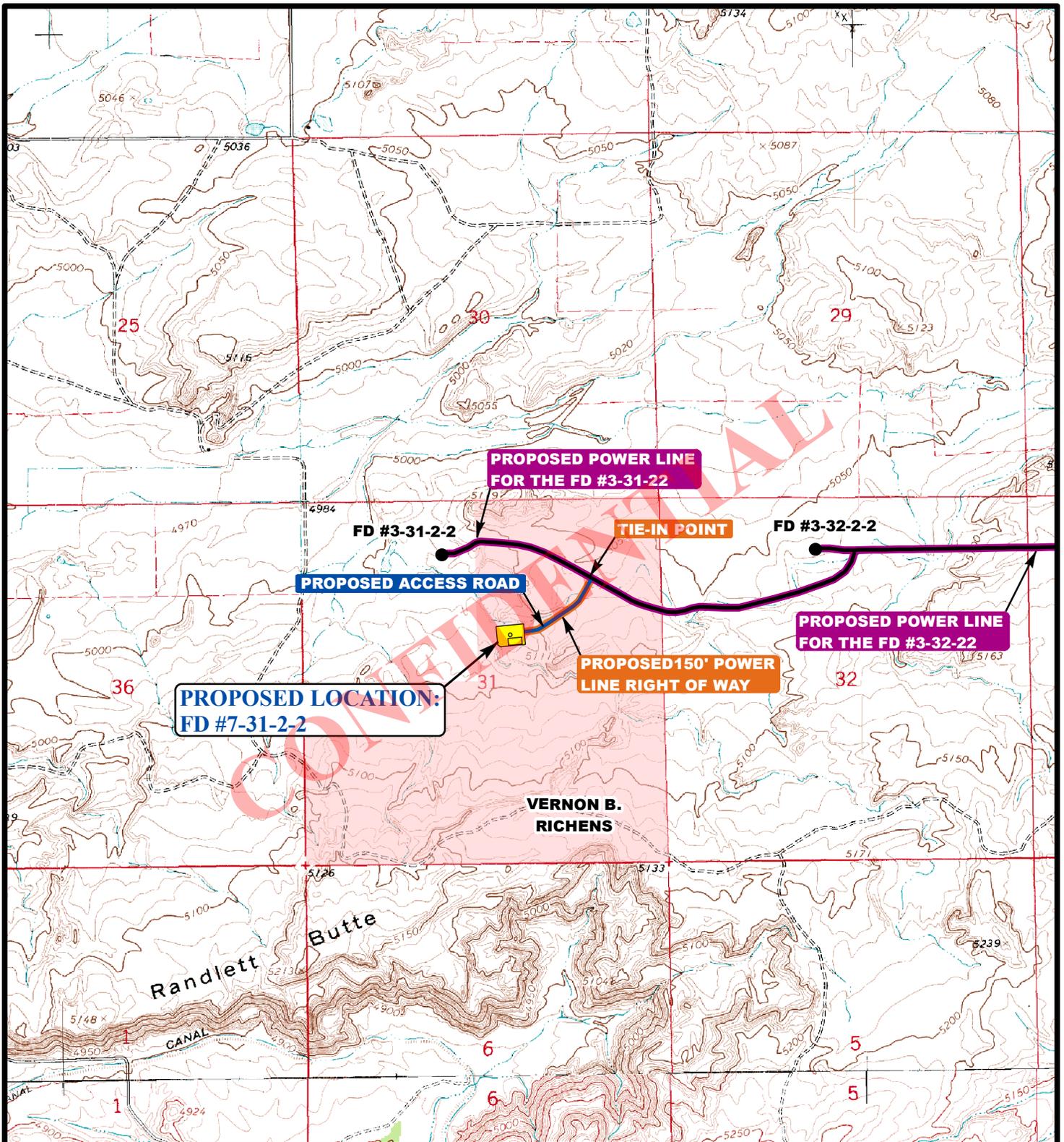
**FD #7-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**2020' FNL 2160' FEL**

**TOPOGRAPHIC MAP**

**08 16 13**  
 MONTH DAY YEAR

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





APPROXIMATE TOTAL POWER LINE DISTANCE 1,309' +/-

**LEGEND:**

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



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



**BILL BARRETT CORPORATION**

**FD #7-31-2-2**  
**SECTION 31, T2S, R2E, U.S.B.&M.**  
**2020' FNL 2160' FEL**

**TOPOGRAPHIC**  
**MAP**

<b>08</b>	<b>16</b>	<b>13</b>
MONTH	DAY	YEAR

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



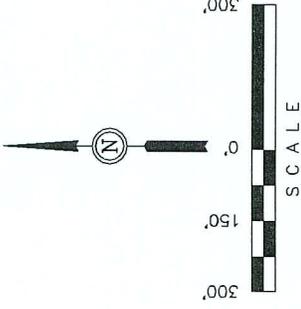


BILL BARRETT CORPORATION

# LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON FEE LANDS

(For FD #7-31-2-2)

LOCATED IN SECTION 31, T2S, R2E, U.S.B.&M., UINTAH COUNTY, UTAH



BASIS OF BEARINGS

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

### RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
VERNON B. RICHENS ET UX	1244.30	0.857	75.41

▲ = SECTION CORNERS LOCATED.



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

REGISTERED LAND SURVEYOR  
STATE OF UTAH  
REGISTRATION NO. 161319

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

SCALE	1" = 300'	DATE	08-15-13
PARTY	C.R. J.S. S.S.	REFERENCES	G.L.O. PLAT
WEATHER	HOT	FILE	5 4 9 3 2

Set Marked Stone, Small Stones

### ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS S37°30'25"W 1569.76' FROM THE NORTHEAST CORNER OF SAID SECTION 31, THENCE S30°46'54"W 376.30'; THENCE S48°29'39"W 107.14'; THENCE S56°31'30"W 562.85'; THENCE S65°54'14"W 57.71'; THENCE S78°36'03"W 76.10'; THENCE S85°07'32"W 64.20' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 31, WHICH BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SAID SECTION 31. 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 0.857 ACRES MORE OR LESS.

Vernon B. Richens ET UX

BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 (At Existing Road)

SURFACE USE AREA DESCRIPTION  
BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SAID SECTION 31, THENCE S39°22'19"E 115.81'; THENCE S00°21'50"W 114.62'; THENCE S42°08'48"W 87.12'; THENCE S85°45'44"W 277.65'; THENCE N55°49'13"W 80.13'; THENCE S87°14'44"W 82.50'; THENCE N49°56'51"W 107.43'; THENCE N06°05'57"W 277.80'; THENCE N45°14'22"E 51.10'; THENCE N86°04'37"E 421.10'; THENCE S52°24'27"E 69.56'; THENCE S05°30'32"E 120.06' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 5.033 ACRES MORE OR LESS.

Vernon B. Richens ET UX

Set Marked Stone, Mound of Stones

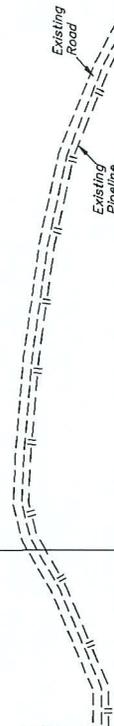
N89°19'01"E - 5162.16' (Meas.)

BEGINNING OF ROAD STA. 0+00 BEARS S37°30'25"W 1569.76' FROM THE NORTHEAST CORNER OF SECTION 31, T2S, R2E, U.S.B.&M.

END OF ROAD STA. 12+44.30 BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SECTION 31, T2S, R2E, U.S.B.&M.

SURFACE USE AREA FD #3-31-2-2

Well Pit



Existing Road Existing Pipeline

NW 1/4 - NE 1/4

LINE	DIRECTION	LENGTH
L1	S30°46'54"W	376.30'
L2	S48°29'39"W	107.14'
L3	S56°31'30"W	562.85'
L4	S65°54'14"W	57.71'
L5	S78°36'03"W	76.10'
L6	S85°07'32"W	64.20'
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L14	N49°56'51"W	107.43'
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L16	N45°14'22"E	51.10'
L17	N86°04'37"E	421.10'
L18	S52°24'27"E	69.56'
L19	S05°30'32"E	120.06'

Sec. 31

SW 1/4

SE 1/4

SURFACE USE AREA FD #7-31-2-2 Contains 5.033 Acres

1/4 Section Line

1/16 Section Line

1/16 Section Line

1/16 Section Line

NE 1/4

NOO°31'17"W - 2654.67' (Meas.)

Set Marked Stone, Small Stones

## SURFACE USE AGREEMENT (FD 7-31-2-2)

**THIS AGREEMENT** Dated October 21, 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 \_\_\_\_\_, hereinafter referred to as "Surface Owners", and  
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 E/2NE/4 and the SW/4NE/4 Section 31, 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:

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:

I  
c  
J

SURFACE OWNERS:

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

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

OPERATOR:  
Bill Barrett Corporation

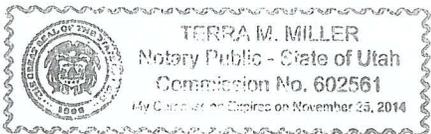
Mitchell J. Reneau, Vice President – Land

CONFIDENTIAL

ACKNOWLEDGMENT

STATE OF Utah }  
COUNTY OF Uintah } SS

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 21<sup>st</sup> day of October, 2013, personally appeared **Vernon B and Eva Diane Richens, husband and wife, as joint tenants with full rights 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.



Terra W. Miller  
Notary Public  
Residing at: Vernal, UT

ACKNOWLEDGMENT

STATE OF COLORADO }  
CITY & COUNTY OF DENVER } SS

On the \_\_\_\_\_ day of \_\_\_\_\_, 2013, before me the undersigned authority, appeared **Mitchell J. Reneau**, to me personally known, who, being sworn, did say that they are the Vice President – Land for Bill Barrett Corporation, 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.

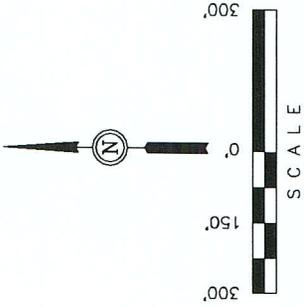
\_\_\_\_\_  
NOTARY PUBLIC  
Residing at: \_\_\_\_\_

BILL BARRETT CORPORATION

**LOCATION SURFACE USE AREA & ROAD RIGHT-OF-WAY ON FEE LANDS**

(For FD #7-31-2-2)

LOCATED IN SECTION 31, T2S, R2E, U.S.B.&M., UTAH COUNTY, UTAH



BASIS OF BEARINGS

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

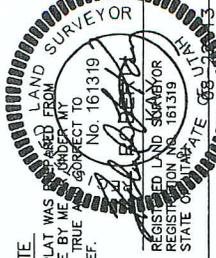
**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
VERNON B. RICHENS ET UX	1244.30	0.857	75.41

▲ = SECTION CORNERS LOCATED.

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM THE RECORDS OF THE PUBLIC RECORDS MADE BY ME AS SURVEYOR AND THAT THE SAID PLAT IS TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.



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

SCALE	1" = 300'	DATE	08-15-13
PARTY	C.R. J.S. S.S.	REFERENCES	G.L.O. PLAT
WEATHER	HOT	FILE	5 4 9 3 2

Set Marked Stone, Small Stones

**ROAD RIGHT-OF-WAY DESCRIPTION**

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.

BEGINNING AT A POINT IN THE NE 1/4 NE 1/4 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS S37°30'25"W 1569.76' FROM THE NORTHEAST CORNER OF SAID SECTION 31, THENCE S30°48'54"W 376.30'; THENCE S48°29'39"W 107.14'; THENCE S56°31'30"W 562.85'; THENCE S65°54'14"W 57.71'; THENCE S78°36'03"W 76.10'; THENCE S85°07'32"W 64.20' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 31, WHICH BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SAID SECTION 31. 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 0.857 ACRES MORE OR LESS.

**Vernon B. Richens ET UX**  
BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY STA. 0+00 (At Existing Road)

**Vernon B. Richens ET UX**

**SURFACE USE AREA DESCRIPTION**

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 31, T2S, R2E, U.S.B.&M., WHICH BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SAID SECTION 31, THENCE S39°22'19"E 115.81'; THENCE S00°21'50"W 114.62'; THENCE S42°08'48"W 87.12'; THENCE S85°45'44"W 277.65'; THENCE N55°49'13"W 80.13'; THENCE S87°14'44"W 82.50'; THENCE N49°56'51"W 107.43'; THENCE N06°05'57"W 277.80'; THENCE N45°14'22"E 51.10'; THENCE N86°04'37"E 421.10'; THENCE S52°24'27"E 69.56'; THENCE S05°30'32"E 120.06' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 5.033 ACRES MORE OR LESS.

Set Marked Stone, Mound of Stones

N89°19'01"E - 5162.16' (Meas.)

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END OF ROAD STA. 12+44.30 BEARS N70°57'23"W 2024.25' FROM THE EAST 1/4 CORNER OF SECTION 31, T2S, R2E, U.S.B.&M.

**SURFACE USE AREA**  
FD #3-31-2-2

Existing Pipeline  
Existing Road

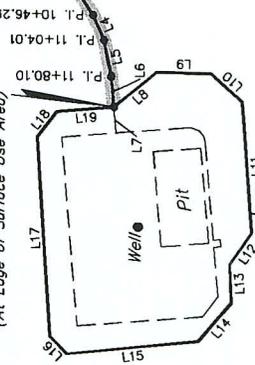
1/16 Section Line

NW 1/4

**Vernon B. Richens ET UX**

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 12+44.30 (At Edge of Surface Use Area)

P.I. 11+80.10  
P.I. 11+04.01  
P.I. 10+46.29



**SURFACE USE AREA**  
FD #7-31-2-2  
Contains 5.033 Acres

1/4 Section Line

Sec. 31

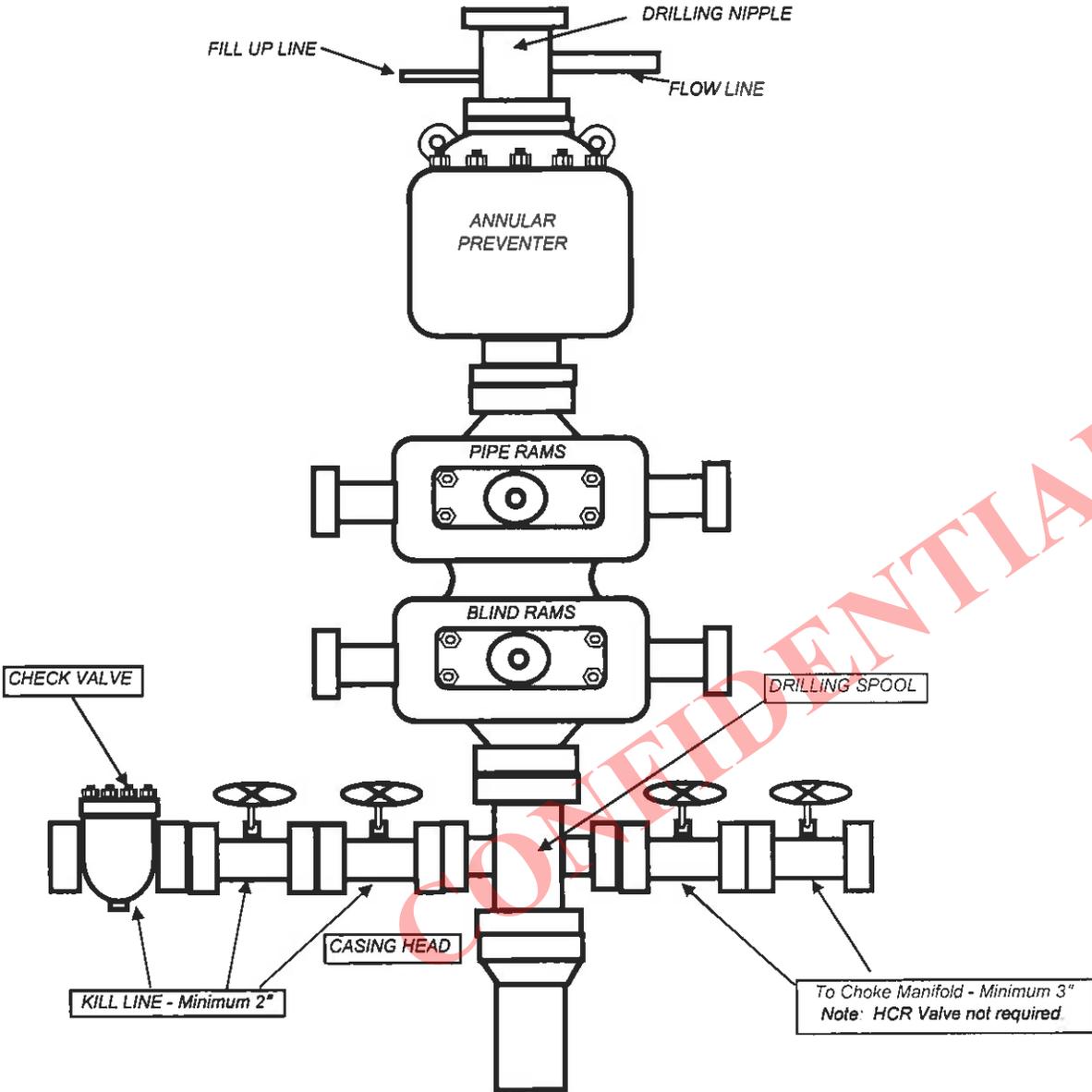
SW 1/4

SE 1/4

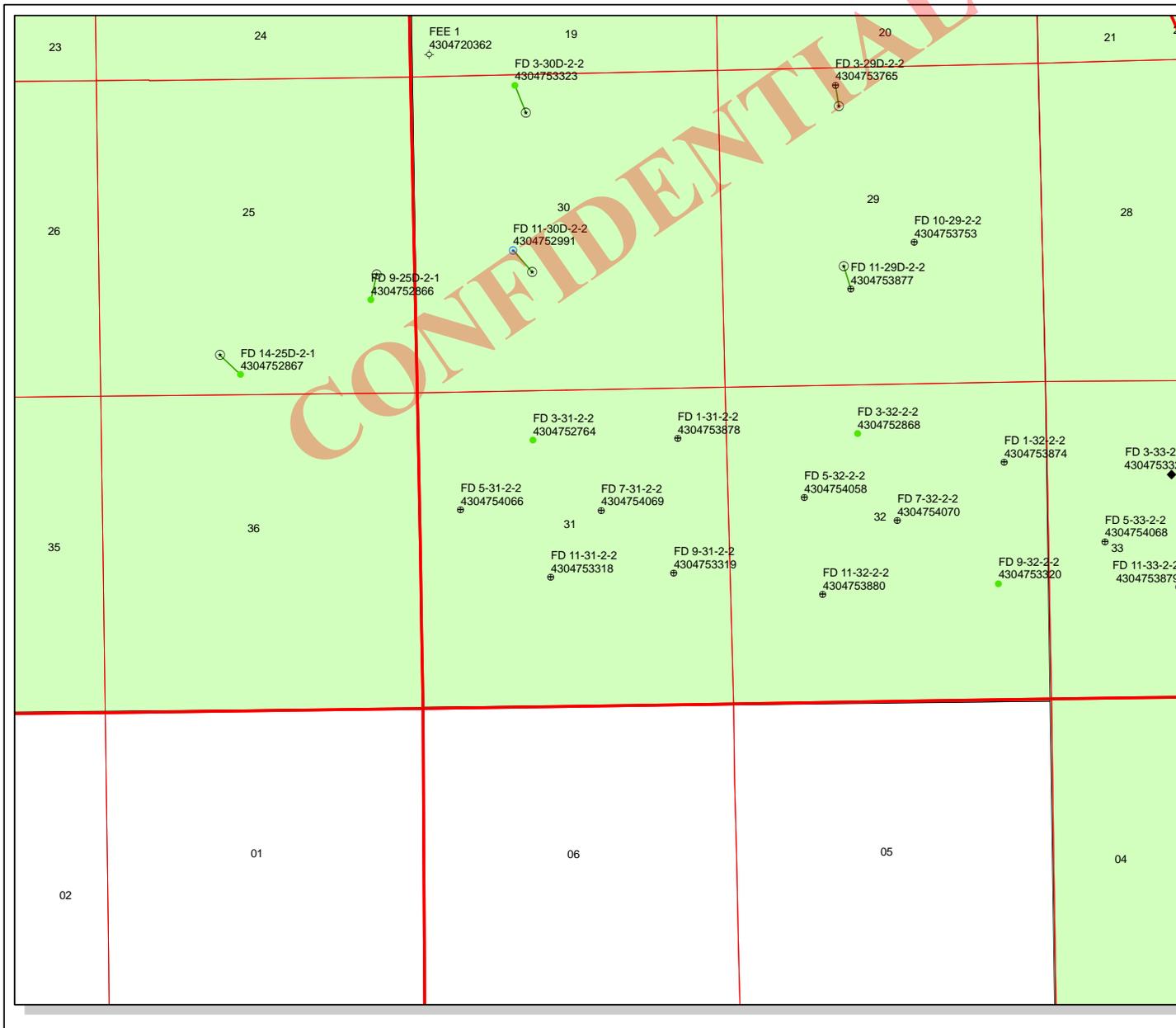
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L17	N86°04'37"E	421.10'
L18	S52°24'27"E	69.56'
L19	S05°30'32"E	120.06'

# BILL BARRETT CORPORATION

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







**API Number: 4304754069**

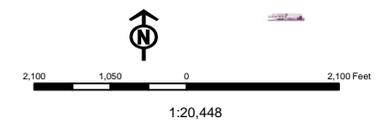
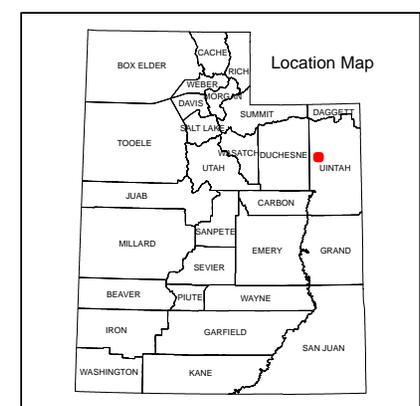
**Well Name: FD 7-31-2-2**

Township: T02.0S Range: R02.0E Section: 31 Meridian: U

Operator: BILL BARRETT CORP

Map Prepared: 10/30/2013  
Map Produced by Diana Mason

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



BOPE REVIEW BILL BARRETT CORP FD 7-31-2-2 43047540690000

Well Name	BILL BARRETT CORP FD 7-31-2-2 43047540690000			
String	Cond	Surf	Prod	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	3600	9685	
Previous Shoe Setting Depth (TVD)	0	80	3600	
Max Mud Weight (ppg)	8.7	8.7	9.5	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	1000	3520	10640	
Operators Max Anticipated Pressure (psi)	4784		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=		80	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

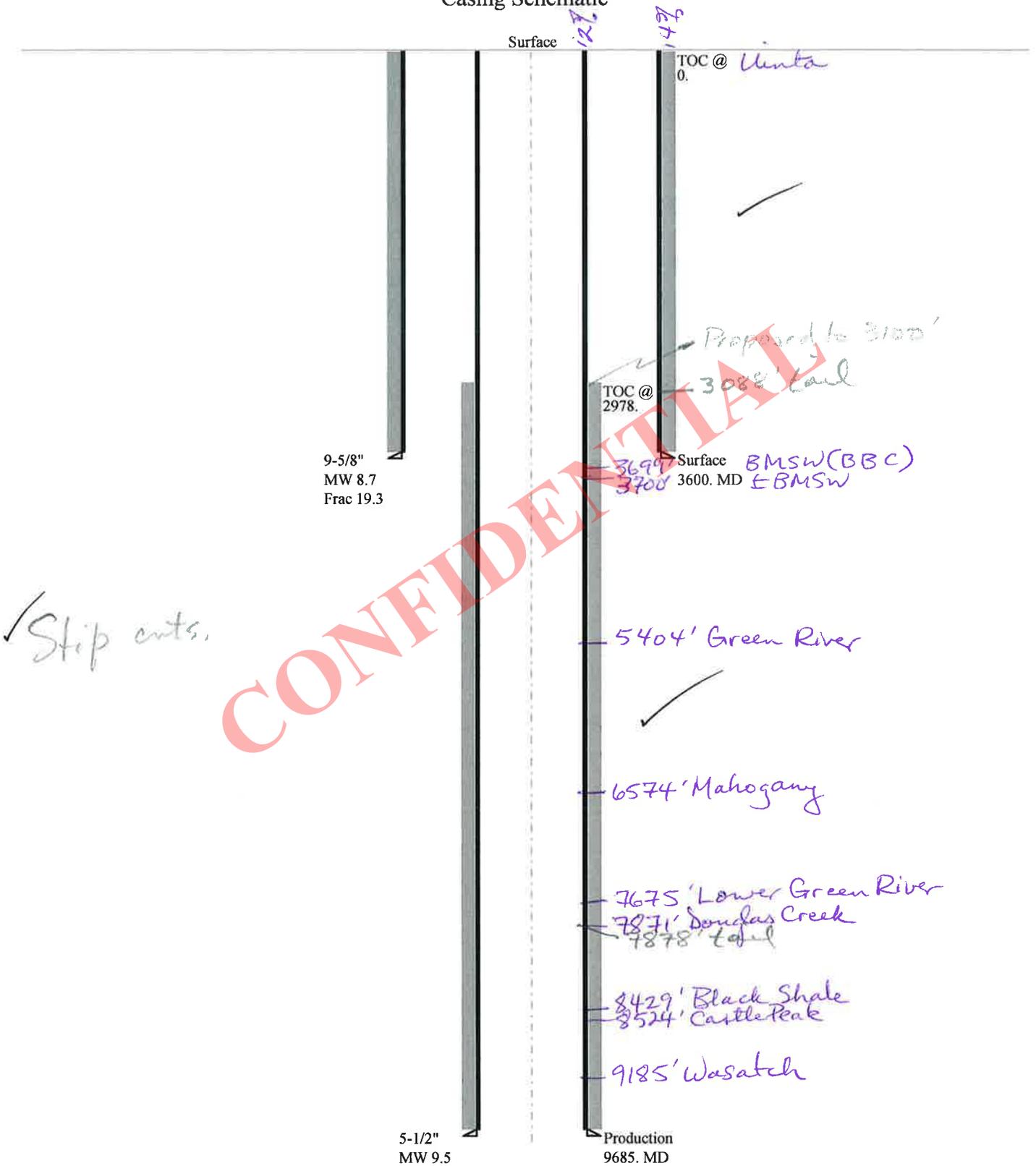
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1629	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1197	NO air/mist/FW spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	837	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	855	NO
Required Casing/BOPE Test Pressure=		2464	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=	4784	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3622	YES 5M BOPE, ram type, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2653	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3445	YES
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3520	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

# 43047540690000 FD 7-31-2-2

## Casing Schematic



Well name:	<b>43047540690000 FD 7-31-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Surface	43-047-54069
Location:	UINTAH COUNTY	

**Design parameters:**

**Collapse**

Mud weight: 8.700 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: 124 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Burst**

Max anticipated surface pressure: 3,168 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP 3,600 psi  
 Annular backup: 1.50 ppg

**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: 3,136 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,685 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 4,780 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 3,600 ft  
 Injection pressure: 3,600 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	3600	9.625	36.00	J-55	LT&C	3600	3600	8.796	29438
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	1627	2020	1.242	3319	3520	1.06	112.9	453	4.01 J

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

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

Date: November 20, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 3600 ft, a mud weight of 8.7 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>43047540690000 FD 7-31-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Production	43-047-54069
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: 210 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft  
 Cement top: 2,978 ft

**Burst**

Max anticipated surface pressure: 2,649 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,780 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)

**Non-directional string.**

Tension is based on buoyed weight.  
 Neutral point: 8,290 ft

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	9685	5.5	17.00	P-110	LT&C	9685	9685	4.767	63793
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	4780	7480	1.565	4780	10640	2.23	140.9	445	3.16 J

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

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

Date: November 20, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 9685 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.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** FD 7-31-2-2  
**API Number** 43047540690000      **APD No** 8819    **Field/Unit** WILDCAT  
**Location: 1/4,1/4 SWNE Sec 31 Tw 2.0S Rng 2.0E 2020 FNL 2160 FEL**  
**GPS Coord (UTM)** 601136 4458122      **Surface Owner** TRACY RICHENS

### Participants

Kary Eldredge and Jake Woodland (Bill Barrett Corporation), Cody Rich (surveyor), Jim Burns (permit contractor), Terra Miller (land contractors)

### Regional/Local Setting & Topography

This proposed site slopes gently to the north and there are exposed rock outcroppings visible on the location. This proposed well site is just 2 miles south of Gusher, Utah which is approximately midway between the much 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. Drainage is generally to the north toward a series of washes, wetlands and ponds. This lower lying drainage area trends toward the west and scattered throughout, where topography and water permits, are irrigated alfalfa hay fields.

### Surface Use Plan

#### **Current Surface Use**

Wildlfe Habitat

#### **New Road Miles**

0.4

#### **Well Pad**

**Width 300 Length 400**

#### **Src Const Material**

Onsite

#### **Surface Formation**

UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Sage brush, halogeton, desert grasses  
Pronghorn habitat

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

Sandy loam soil

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required? Y**

Minor drainage diversion needed

**Berm Required? Y****Erosion Sedimentation Control Required? N****Paleo Survey Run? N    Paleo Potential Observed? N    Cultural Survey Run? N    Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	25 to 75	15
<b>Distance to Surface Water (feet)</b>	>1000	0
<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>	Not Present	0
<b>Final Score</b>		50

1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 200 x 100 x 10ft. 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? N    Liner Required? Y    Liner Thickness 16    Pit Underlayment Required? Y****Other Observations / Comments**

Richard Powell  
Evaluator

11/6/2013  
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
8819	43047540690000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	TRACY RICHENS	
<b>Well Name</b>	FD 7-31-2-2		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNE 31 2S 2E U 2020 FNL (UTM) 601146E 4458118N		2160 FEL	GPS Coord	

**Geologic Statement of Basis**

Bill Barrett proposes to set 80 feet of conductor and 3,600 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 3,700'. A search of Division of Water Rights records shows 5 water wells within a 10,000 foot radius of the center of Section 31. The wells are 60-400 feet in depth with listed uses as domestic, irrigation and stock watering. Only one well is within .5 miles of the proposed location. 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. The proposed casing and cement should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

11/20/2013  
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 spoke 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 Kary 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. Minor drainage diversions will be needed for this location but it appears to be a good site for this well.

Richard Powell  
Onsite Evaluator

11/6/2013  
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	The well site shall be bermed to prevent fluids from leaving the pad.
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.

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/24/2013

API NO. ASSIGNED: 43047540690000

WELL NAME: FD 7-31-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SWNE 31 020S 020E

Permit Tech Review: 

SURFACE: 2020 FNL 2160 FEL

Engineering Review: 

BOTTOM: 2020 FNL 2160 FEL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.26743

LONGITUDE: -109.81043

UTM SURF EASTINGS: 601146.00

NORTHINGS: 4458118.00

FIELD NAME: WILDCAT

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:

## LOCATION AND SITING:

- 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

 R649-2-3.

Unit:

 R649-3-2. General R649-3-3. Exception Drilling Unit

Board Cause No: Cause 139-106

Effective Date: 11/14/2013

Siting: 660' Fr Drlg U Bdry &amp; 990' Fr Other Wells

 R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill  
 12 - Cement Volume (3) - hmacdonald  
 25 - Surface Casing - hmacdonald  
 27 - Other - 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. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** FD 7-31-2-2

**API Well Number:** 43047540690000

**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 139-106. 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

### 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:

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 3100' MD as indicated in the submitted drilling plan.

Surface casing shall be cemented to the surface.

A properly lubricated and maintained rotating head shall be in place when drilling with air.

### 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:**

**Approved by:**

A handwritten signature in black ink, appearing to read "J. 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>	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:
<b>1. TYPE OF WELL</b> Oil Well	7. UNIT or CA AGREEMENT NAME:
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	8. WELL NAME and NUMBER: FD 7-31-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	9. API NUMBER: 43047540690000
<b>4. LOCATION OF WELL</b> FOOTAGES AT SURFACE: 2020 FNL 2160 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 31 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	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: 1/6/2014	<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 checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="change to drilling plan"/>

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: 1200'; 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 Hole and Casing size remains the same; Production grade changing to: P-110 OR I-80.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: January 09, 2014

By: *Derek Duff*

<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> 1/6/2014	

<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 7-31-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540690000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2020 FNL 2160 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 31 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: 1/24/2014	<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 style="width: 100px;" type="text"/>

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

This well was spud on 1/24/14 at approximately 9:15 am by Triple A Drilling, Rig #TA 4037, Rig Type Soilmec SR/30.

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

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/27/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<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 7-31-2-2	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540690000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2020 FNL 2160 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 31 Township: 02.0S Range: 02.0E Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT	
		<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: 1/31/2014	<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 January 2014 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 06, 2014</b>			
<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> 2/5/2014	

**7-31-2-2 FD 1/28/2014 06:00 - 1/29/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status	Total Depth (ftKB) 1,245.0	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	1	RIGUP & TEARDOWN	MOVE RIG - RIG UP - DRILL 12 1/4 SURFACE FROM 80' T/1245' - CIRC - T.O.O.H. - RUN 8 5/8 CSG

**7-31-2-2 FD 1/29/2014 06:00 - 1/30/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status	Total Depth (ftKB) 1,245.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	RUN 8 5/8 CSG - CEMENT CSG

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 7-31-2-2	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047540690000	
<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> WILDCAT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2020 FNL 2160 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 31 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: 3/31/2014	<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 March 2014 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 02, 2014</b>			
<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> 4/2/2014	

**FD 07-31-2-2 3/8/2014 06:00 - 2/1/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**FD 07-31-2-2 3/8/2014 12:00 - 3/9/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	12.00	00:00	1	RIGUP & TEARDOWN	MOVE RIG TO FD 7-31-2-2 & RIG UP
00:00	1.00	01:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.P
01:00	5.00	06:00	15	TEST B.O.P	TEST LOWER KELLY VALVE, SAFETY VALVE, PIPE RAMS INSIDE VALVES, HCR, OUTSIDE KILL LINE VALVES, CHOKE LINE, CHECK VALVE, UPRIGHT GAGE VALVE, BLIND RAMS, AND INSIDE MANIFOLD VALVES ALL TO 5000PSI FOR 10 MIN. - TEST ANNULAR TO 1500PSI - SUPER CHOKE 500PSI 5MIN. - TEST CSG TO 2000PSI FOR 30MIN. TESTED USING B&C QUICK TEST.
06:00	1.00	07:00	1	RIGUP & TEARDOWN	RIG UP FLARE LINES INSTAL WEAR BUSHING & STRAP BHA
07:00	2.50	09:30	9	CUT OFF DRILL LINE	SLIP & CUT DRILL LINE
09:30	2.00	11:30	20	DIRECTIONAL WORK	M/U BIT & M/M - LOAD MWD TOOL AND ORIENT
11:30	0.50	12:00	7	LUBRICATE RIG	RIG SERVICE

**FD 07-31-2-2 3/9/2014 06:00 - 3/10/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	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	6	TRIPS	T.I.H. - INSTALL ROTATING HEAD
09:00	1.50	10:30	21	OPEN	TAG CEMENT STRINGERS @ 1162 DRILL T/ 1184 & TAG FLOAT COLLAR TAG SHOE @ 1232 - DRILL T/ 1240 - CIRCULATE B/U & PERFORM F.I.T. TEST - EM 10.2 PM 8.4 TVD 1240 = 116PSI HELD @ SURFACE
10:30	7.00	17:30	2	DRILL ACTUAL	DRILL F/ 1240 T/ 1986 - 10-12K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 2500-300 DIFF - SPP 1475
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	3.50	21:30	2	DRILL ACTUAL	DRILL F/ 1986T/ 2546 - 10-12K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 2500-300 DIFF - SPP 1475
21:30	5.00	02:30	8	REPAIR RIG	CHANGE OUT SWIVAL PUMP & TOPDRIVE MOTORS
02:30	3.00	05:30	2	DRILL ACTUAL	DRILL F/ 1986T/ 3100 - 10-12K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 2500-300 DIFF - SPP 1475
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 07-31-2-2 3/10/2014 06:00 - 3/11/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/3100 T/ 4347 - 10-12K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 2500-300 DIFF - SPP 1475
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	11.50	05:30	2	DRILL ACTUAL	DRILL F/ 4347 T/ 5290 - 10-12K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 2500-300 DIFF - SPP 1475
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 07-31-2-2 3/11/2014 06:00 - 3/12/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	DRILL F/ 5290 T/ 5506 - 16-18K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 150-200 DIFF - SPP 1875
17:30	1.00	18:30	7	LUBRICATE RIG	RIG SERVICE
18:30	11.50	06:00	2	DRILL ACTUAL	DRILL F/ 5506T/ 5950 - 16-18K WT ON BIT - 470GPM - 50-60RPM - 8-9K TORQUE - 150-200 DIFF - SPP 1875

**FD 07-31-2-2 3/12/2014 06:00 - 3/13/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	DRILL ACTUAL F/5950' - T/6202' - 252' @ 25.2'/HR. WOB = 22-28K, RPM = 45-60
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/6202' - T/6624' - 422' @ 31.3'/HR. WOB = 24-28K, 55-65 RPM

**FD 07-31-2-2 3/13/2014 06:00 - 3/14/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	2	DRILL ACTUAL	DRILL ACTUAL F/6624' - T/6764' - 140' @ 25.5'/HR. WOB = 24-30K, 55-65 RPM
11:30	0.50	12:00	7	LUBRICATE RIG	RIG SERVICE
12:00	1.00	13:00	5	COND MUD & CIRC	PUMP SWEEP AND CIRCULATE
13:00	0.50	13:30	6	TRIPS	PUMP SLUG, FLOW CHECK-NO FLOW
13:30	5.00	18:30	6	TRIPS	TOOH FOR BIT CHANGE
18:30	1.00	19:30	20	DIRECTIONAL WORK	PULL MWD, BREAK BIT, L/D MM
19:30	1.00	20:30	20	DIRECTIONAL WORK	MAKE UP BIT & MM, SCRIBE
20:30	1.00	21:30	6	TRIPS	TIH W/BHA
21:30	3.00	00:30	8	REPAIR RIG	DRAIN & CLEAN OUT SWIVEL HYD TANK, X/O HOSES & FILTERS
00:30	5.50	06:00	6	TRIPS	TIH

**FD 07-31-2-2 3/14/2014 06:00 - 3/15/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	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	6	TRIPS	TIH TO 6550'
07:00	0.50	07:30	6	TRIPS	WASH & REAM F/6550' - T/6764'
07:30	9.00	16:30	2	DRILL ACTUAL	DRILL ACTUAL F/6764' - T/7145' - 381' @ 42.3'/HR. WOB = 14K, 50 RPM
16:30	0.50	17:00	7	LUBRICATE RIG	RIG SERVICE
17:00	13.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/7145' - T/7555' - 410' @ 31.5'/HR. WOB = 14K-22K, 50-65 RPM

**FD 07-31-2-2 3/15/2014 06:00 - 3/16/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	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	DRILL ACTUAL F/7555' - T/7652' - 97' @ 38.8'/HR. WOB = 22-28K, 70 RPM
08:30	0.50	09:00	7	LUBRICATE RIG	RIG SERVICE
09:00	8.00	17:00	2	DRILL ACTUAL	DRILL ACTUAL F/7652' - T/7990' - 338' @ 42.25'/HR. WOB = 14-18K, 50-60 RPM
17:00	0.50	17:30	8	REPAIR RIG	REPAIR HYD. LINE ON BOOM
17:30	8.00	01:30	2	DRILL ACTUAL	DRILL ACTUAL F/7990' - T/8496' - 506' @ 63.3'/HR. WOB = 14-18K, 50-60RPM
01:30	0.50	02:00	8	REPAIR RIG	WORK ON PUMP #1
02:00	4.00	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/8496' - T/8690' - 194' @ 48.5'/HR. WOB = 14-18K, 60-70RPM

**FD 07-31-2-2 3/16/2014 06:00 - 3/17/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	15.50	21:30	2	DRILL ACTUAL	DRILL ACTUAL F/8690' - T/9210' TD - 520' @ 33.5'/HR. WOB = 14-30K, 60-70RPM
21:30	2.00	23:30	5	COND MUD & CIRC	PUMP 2 HIGH VIS SWEEPS, CIRCULATE HOLE CLEAN, LAY OUT 6 JOINTS, PUMP SLUG
23:30	2.50	02:00	6	TRIPS	SHORT TRIP TO 6500', TIGHT HOLE 7500'-7750'
02:00	2.50	04:30	6	TRIPS	TIH, WASH F/7500' - T/7750', WASH LAST 45' TO BOTTOM
04:30	1.50	06:00	5	COND MUD & CIRC	PUMP 2 HIGH VIS SWEEPS, CIRCULATE

**FD 07-31-2-2 3/17/2014 06:00 - 3/18/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	PUMP SLUG, BLOW DOWN TOP DRIVE
06:30	0.50	07:00	6	TRIPS	TOOH/LDDP
07:00	0.50	07:30	5	COND MUD & CIRC	FLOW CHECK, NO FLOW
07:30	6.00	13:30	6	TRIPS	TOOH/LDDP
13:30	0.50	14:00	21	OPEN	PULL WEAR BUSHING
14:00	1.50	15:30	12	RUN CASING & CEMENT	RIG UP TO RUN CASING
15:30	14.50	06:00	12	RUN CASING & CEMENT	RUN 208 JOINTS 9200' OF 5.5" 17# I-80 LT&C CASING WITH 2 MARKERS, 88 CENTRALIZERS, AND 3 BASKETS - BROKE CIRCULATION EVERY 1,000'.

**FD 07-31-2-2 3/18/2014 06:00 - 3/19/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54069	Utah	Uintah	fort Duchesne	COMPLETION	9,210.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	5	COND MUD & CIRC	CIRCULATE AND RECIPROCATATE PIPE, MAKE UP LANDING JOINT AND LAND MANDREL HANGER
08:30	7.00	15:30	12	RUN CASING & CEMENT	S/M - R/U CEMENT EQUIPMENT - TEST LINES 5000PSI - PUMP 3BBL H2O FILL LINES - 60BBLs TUNED SPACER - PUMP 227BBLs 545SKS 11# 2.34Y & 10.1GAL/SX TUNED LIGHT LEAD CEMENT - PUMP 186BBLs 720SKS 13.5# 1.45Y & 6.91GAL/SK TAIL CEMENT - PUMPED 211 BBLs H2O WITH CLA-WEB DISPLACEMENT, GOOD RETURNS ENTIRE JOB - SLOW RATED TO KEEP RETURNS - GOT 31BBLs OF TUNED SPACER TO SURFACE - LANDED THE PLUG AT 1890 PSI AND PRESSURED UP 500 PSI OVER FINAL CIRCULATING PSI TO 2400 PSI - FLOATS HELD - GOT 1 1/2BBLs BACK TO THE RCM - R/D CEMENT EQUIPMENT
15:30	4.00	19:30	14	NIPPLE UP B.O.P	NIPPLE DOWN, CLEAN MUD TANKS, RIG RELEASE @ 19:30

**FD 07-31-2-2 3/19/2014 06:00 - 3/20/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54069	Utah	Uintah	fort Duchesne	COMPLETION	9,210.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN HANGER MANDREL. NU 7" 5K TBG HEAD. TEST VOID AND SEALS. GOOD. SET 7" NIGHT CAP.

**FD 07-31-2-2 3/23/2014 06:00 - 3/24/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54069	Utah	Uintah	fort Duchesne	COMPLETION	9,210.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOGG	Logging	MIRU HES. HSM. RUN GR/JB TO TAG FILL AT 9056', DRLG SHOWS FC AT 9110' (HAVE 54' FILL). LOG SHOWS CMT-- GOOD TD-7250', FAIR WITH RATTY SPOTS 7250'-6700', GOOD 6700'-5550', FAIR WITH RATTY SPOTS 5550'-3500', RATTY 3500'-3200', POOR 3200'-2100'. EST TOC AT 2100'. SHORT JTS AT 7661'-7685' AND 7816'-7840'. RD HES. SECURE WELL.  FUEL REPORT HES LOGGING DIESEL 65 GAL CANARY DIESEL 5 GAL

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 7-31-2-2	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047540690000	
<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> WILDCAT	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2020 FNL 2160 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 31 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/24/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<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 checked="" 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.			
<p>THIS WELL HAD FIRST PRODUCTION ON 4/24/2014 AND FIRST GAS SALES ON 4/25/2014.</p> <div style="text-align: right;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>April 29, 2014</p> </div>			
<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> 4/28/2014	

<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 7-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540690000
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: 2020 FNL 2160 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 31 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: WILDCAT
	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 the April 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 May 06, 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> 5/6/2014	

**FD 07-31-2-2 4/8/2014 06:00 - 4/9/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,210.0	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	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES AND FRAC HEAD. PRES TEST CSG TO 6200 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.

**FD 07-31-2-2 4/22/2014 06:00 - 4/23/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,210.0	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.
07:00	1.00	08:00	SRIG	Rig Up/Down	SPOT AND RU CASED HOLE SOLUTIONS WITH 5" 5K LUBE.
08:00	1.00	09:00	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 0 PSI. RIH AND CORRELATE TO SJ AT 7816'-7839'. RUN DOWN AND PERF UTELAND BUTTE AND CASTLE PEAK FORM 8704'-9023' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:00	5.00	14:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
14:00	16.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**FD 07-31-2-2 4/23/2014 06:00 - 4/24/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,210.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
06:30	1.25	07:45	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 430 PSI AT 06:35 BREAK DOWN 3697 PSI AT 10.3 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 2745 PSI. FLUSH W/ 8499 GAL. 30.0 BPM AT 3310 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.2 BPM AT 4799 PSI. ISDP 2821. FG .76. PERFS OPEN 27/45  ISIP 3206, FG .80, MR 71.8 BPM, AR 70.4 BPM, MP 4678 PSI, AP 4082 PSI 100 MESH 8070 lbs. .75 ppg 20/40 WHITE 150,600 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1046 BBL, 20# HYBOR G (16) 1505 BBL, BTR 2646 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.
07:45	1.25	09:00	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7816'-7839'. RUN DOWN AND SET 5-1/2" CBP AT 8694' WITH 2450 PSI. PULL UP AND PERF DOUGLAS CREEK, BLACK SHALE, AND CASTLE PEAK 8382'-8674' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1800 PSI. TURN WELL OVER TO HES.



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
09:00	1.25	10:15	FRAC	Frac. Job	<p>FRAC STG 2            PRESSURE TEST LINES TO 7250 PSI.            OPEN WELL W/ 792 PSI AT 09:06            BREAK DOWN 4258 PSI AT 9.8 BPM.            PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2924 PSI.            FLUSH W/ 8382 GAL. 30.0 BPM AT 3980 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.            STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 4724 PSI. ISDP 2742. FG .76.            PERFS OPEN 26/45            (CUT 5 PPA SHORT DUE TO INCREASING NET PRESSURE)</p> <p>ISIP 2953, FG .78, MR 70.3 BPM, AR 69.9 BPM, MP 4466 PSI, AP 4101 PSI            100 MESH 8200 lbs. .75 ppg            20/40 WHITE 140,400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 965 BBL, 20# HYBOR G (16) 1555 BBL, BTR 2613 BBLs</p> <p>SHUT IN AND TURN OVER TO CASED HOLE.</p>
10:15	1.25	11:30	PFRT	Perforating	<p>PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7816'-7839'. RUN DOWN AND SET 5-1/2" CBP AT 8353' WITH 2500 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8024-8333' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2200 PSI. TURN WELL OVER TO HES.</p>
11:30	1.25	12:45	FRAC	Frac. Job	<p>FRAC STG 3            PRESSURE TEST LINES TO 7300 PSI.            OPEN WELL W/ 2548 PSI AT 11:32            BREAK DOWN 4846 PSI AT 9.7 BPM.            PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2720 PSI.            FLUSH W/ 7835 GAL. 30.2 BPM AT 3438 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.            STAGE FR PAD. STABLE RATE OF 70.0 BPM AT 4657 PSI. ISDP 2666. FG .76.            PERFS OPEN 26/45</p> <p>ISIP 2820, FG .78, MR 70.2 BPM, AR 70.0 BPM, MP 4912 PSI, AP 4145 PSI            100 MESH 8400 lbs. .75 ppg            20/40 WHITE 155,400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 962 BBL, 20# HYBOR G (16) 1589 BBL, BTR 2644 BBLs</p> <p>SHUT IN AND TURN OVER TO CASED HOLE.</p>
12:45	1.09	13:50	PFRT	Perforating	<p>PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2650 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7816'-7839'. RUN DOWN AND SET 5-1/2" CBP AT 8014' WITH 2400 PSI. PULL UP AND PERF TGR3 AND DOUGLAS CREEK FORM 7696'-7994' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2400 PSI. TURN WELL OVER TO HES.</p>
13:50	1.50	15:20	FRAC	Frac. Job	<p>FRAC STG 4            PRESSURE TEST LINES TO 7300 PSI.            OPEN WELL W/ 2347 PSI AT 13:56            BREAK DOWN 2851 PSI AT 10.2 BPM.            PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1744 PSI.            FLUSH W/ 7696 GAL. 30.3 BPM AT 2763 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.            STAGE FR PAD. STABLE RATE OF 21.0 BPM AT 4747 PSI. ISDP 1942. FG .69.            PERFS OPEN 15/45</p> <p>ISIP 1406, FG .62, MR 70.8 BPM, AR 60.2 BPM, MP 4600 PSI, AP 3645 PSI            100 MESH 9000 lbs. .75 ppg            20/40 WHITE 154,000 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 846 BBL, 20# HYBOR G (16) 1480 BBL, BTR 2407 BBLs</p> <p>SHUT IN, REMOVE STAND PIPES AND TURN OVER TO CASED HOLE.</p>
15:20	1.00	16:20	WLWK	Wireline	<p>KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1800 PSI. RIH AND CORRELATE TO CSG JTS (NO SHORT JT NOW). SET KILL PLUG AT 7594' WITH 1450 PSI. BLEED OFF AS POOH.</p>
16:20	2.00	18:20	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE.
18:20	11.66	06:00	LOCL	Lock Wellhead & Secure	STK WTR. MOVE OFF FRAC LINE. SPOT PUMP AND TANK.

**FD 07-31-2-2 4/24/2014 06:00 - 4/25/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,210.0	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	MIRU RIG & EQUIPMENT.
09:00	3.00	12:00	BOPI	Install BOP's	N/D FRAC TREE. N/U BOPE. R/U FLOOR & EQUIPMENT. SPOT IN CATWALK & PIPE RACKS. LOAD 299 JTS ON RACKS & TALLY.
12:00	3.00	15:00	RUTB	Run Tubing	P/U 4-3/4 BIT, POBS 1 JT 2-7/8 TBG & S/N. RIH TO KILL PLUG @ 7658' P/U NEW 2-7/8 L-80 TBG.
15:00	3.00	18:00	GOP	General Operations	R/U POWER SWIVEL. FILL HOLE & TEST BOPE TO 2000 PSI, HELD.  D/O CBP @ 7594'. CFP- 800 PSI ON 28/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 7989'. C/O SAND & D/O CBP @ 8014'. CFP- 800 ON 28/64 CHOKE. R/D SWIVEL. EOT @ 8028'. TURN WELL OVER TO FLOWBACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.

**FD 07-31-2-2 4/25/2014 06:00 - 4/26/2014 06:00**

API 43-047-54069	State/Province Utah	County Uintah	Field Name fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,210.0	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	4.50	11:30	DOPG	Drill Out Plugs	CFP 450 ON 22/64 CHOKE. RIH F/ 8082 W/ 4-3/4 BIT, TAG SAND @ 8326'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 8353'. FCP- 550 ON 16/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 8611'. C/O SAND & D/O CBP @ 8694'. FCP- 1000 ON 30/64 CHOKE.  SWIVEL IN HOLE. TAG F/C @ 9110'. D/O F/C. C/O CMT TO 9188' PBTD. CIRC WELL CLEAN. R/D SWIVEL.
11:30	1.50	13:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 7588' & LAND TBG. 238 JTS TOTAL IN HOLE.
13:00	1.50	14:30	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 3400 PSI. R/U TBG TO SALES LINE. TURN OVER TO FLOWBACK. SICP- 650, FTP -600 ON 21/64 CHOKE. SDFN.
14:30	1.00	15:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. SDFN.
15:30	14.50	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)

5. LEASE DESIGNATION AND SERIAL NUMBER:  
**Fee**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**FD 7-31-2-2**

9. API NUMBER:  
**4304754069**

10 FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SWNE 31 2S 2E U**

12. COUNTY **Uintah** 13. STATE **UTAH**

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_  
b. TYPE OF WORK: NEW WELL  HORIZ. LATS.  DEEP-EN  RE-ENTRY  DIFF. RESVR.  OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
**Bill Barrett Corporation**

3. ADDRESS OF OPERATOR: **1099 18th St Ste 2300** CITY **Denver** STATE **CO** ZIP **80202** PHONE NUMBER: **(303) 293-9100**

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **2020 FNL 2160 FEL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **2012 FNL 2181 FEL**  
AT TOTAL DEPTH: **2049 FNL 2177 FEL**

14. DATE SPUDDED: **1/24/2014** 15. DATE T.D. REACHED: **3/16/2014** 16. DATE COMPLETED: **4/24/2014** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5031 GL**

18. TOTAL DEPTH: MD **9,210** TVD **9,209** 19. PLUG BACK T.D.: MD **9,111** TVD **9,110** 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/CBL/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	1,245	1,229	Lead	150	102	0	
						Tail	510	105		
7 7/8	5 1/2 I-80	17#	0	9,210	9,200	Lead	545	227	3310	
						Tail	720	186		

**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	5,666							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	7,696	9,023		
(B)				
(C)				
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,696 9,023	.38	180	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7696-9023	Green River: See attached Stage 1-4

**29. ENCLOSED ATTACHMENTS:**

ELECTRICAL/MECHANICAL LOGS  GEOLOGIC REPORT  DST REPORT  DIRECTIONAL SURVEY  
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION  CORE ANALYSIS  OTHER: \_\_\_\_\_

**30. WELL STATUS:**

**POW**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 4/24/2014		TEST DATE: 5/20/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 374	GAS - MCF: 72	WATER - BBL: 55	PROD. METHOD: Flowing
CHOKE SIZE: 64/64	TBG. PRESS. 400	CSG. PRESS. 100	API GRAVITY 31.00	BTU - GAS 1	GAS/OIL RATIO 193	24 HR PRODUCTION RATES: →	OIL - BBL: 374	GAS - MCF: 72	WATER - BBL: 55	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	5,432
				Mahogany	6,593
				Pelican Bench	7,492
				TGR3	7,693
				Douglas Creek	7,889
				Black Shale Facies	8,456
				Castle Peak	8,547
				Uteland Butte	8,761
				TD	9,210

35. ADDITIONAL REMARKS (Include plugging procedure)

TOC calculated by CBL. Conductor cemented with grout. First gas sales 4/25/2014; first oil sales 4/29/2014

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 5/20/2014

This report must be submitted within 30 days of

- completing or plugging a new well
- reentering a previously plugged and abandoned well
- drilling horizontal laterals from an existing well bore
- significantly deepening an existing well bore below the previous bottom-hole depth
- recompleting to a different producing formation
- 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

**7-31-2-2 FD Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><u>Stage</u></b>	<b><u>bbls Slurry</u></b>	<b><u>lbs Common White 100 Mesh Sand</u></b>	<b><u>lbs 20/40 Premium White</u></b>	<b><u>gal 15% HCl Acid</u></b>
1	2656	8070	150600	3900
2	2613	8200	140400	3400
3	2644	8400	155400	3400
4	2407	9090	154060	3400

\*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 7-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Well:</b>	FD 7-31-2-2	<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 31 T2S, R2E		
<b>Site Position:</b>		<b>Northing:</b>	11,161,342.96 usft
<b>From:</b>	Map	<b>Easting:</b>	2,110,454.25 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 16' 32.403 N
		<b>Longitude:</b>	109° 49' 0.873 W
		<b>Grid Convergence:</b>	1.03 °

<b>Well</b>	FD 7-31-2-2, SHL: 40° 16' 2.950 - 109° 48' 37.890		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b> 11,158,392.40 usft
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b> 2,112,290.88 usft
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b> 5,045.0 usft
			<b>Latitude:</b> 40° 16' 2.950 N
			<b>Longitude:</b> 109° 48' 37.890 W
			<b>Ground Level:</b> 5,032.0 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	3/5/2014	10.89	65.96	52,160

<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	211.44

<b>Survey Program</b>	<b>Date</b>	3/18/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
1,254.0	9,210.0	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 7-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Well:</b>	FD 7-31-2-2	<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	0.00
1,254.0	0.60	161.20	1,254.0	4.2	-6.2	2.1	0.05	0.05	0.00	
1,339.0	0.70	150.50	1,339.0	4.7	-7.1	2.5	0.18	0.12	-12.59	
1,423.0	1.00	146.30	1,423.0	5.3	-8.1	3.2	0.36	0.36	-5.00	
1,507.0	0.30	29.70	1,507.0	5.4	-8.6	3.7	1.39	-0.83	-138.81	
1,591.0	0.20	77.80	1,591.0	5.1	-8.3	3.9	0.27	-0.12	57.26	
1,676.0	0.30	59.70	1,676.0	4.8	-8.2	4.3	0.15	0.12	-21.29	
1,760.0	0.30	62.70	1,760.0	4.4	-8.0	4.7	0.02	0.00	3.57	
1,844.0	0.40	74.40	1,844.0	4.0	-7.8	5.1	0.15	0.12	13.93	
1,928.0	0.22	96.78	1,928.0	3.7	-7.7	5.6	0.25	-0.21	26.64	
2,013.0	0.09	76.51	2,013.0	3.6	-7.8	5.8	0.16	-0.15	-23.85	
2,097.0	1.10	328.40	2,096.9	3.2	-7.0	5.5	1.35	1.20	-128.70	
2,181.0	0.71	321.39	2,180.9	2.6	-6.0	4.7	0.48	-0.46	-8.35	
2,265.0	2.12	322.09	2,264.9	1.9	-4.3	3.4	1.68	1.68	0.83	
2,350.0	1.10	305.70	2,349.9	1.3	-2.6	1.8	1.30	-1.20	-19.28	
2,434.0	2.39	330.51	2,433.8	0.4	-0.6	0.3	1.75	1.54	29.54	
2,518.0	2.12	325.58	2,517.8	-1.1	2.2	-1.5	0.40	-0.32	-5.87	
2,603.0	1.99	324.39	2,602.7	-2.3	4.7	-3.2	0.16	-0.15	-1.40	
2,687.0	1.90	331.48	2,686.7	-3.6	7.1	-4.7	0.31	-0.11	8.44	
2,772.0	1.68	348.58	2,771.6	-5.2	9.6	-5.6	0.68	-0.26	20.12	
2,856.0	1.99	353.47	2,855.6	-7.3	12.2	-6.1	0.41	0.37	5.82	
2,940.0	1.50	0.17	2,939.5	-9.4	14.8	-6.2	0.63	-0.58	7.98	
3,025.0	1.19	6.29	3,024.5	-11.1	16.8	-6.1	0.40	-0.36	7.20	
3,109.0	0.90	5.90	3,108.5	-12.5	18.3	-5.9	0.35	-0.35	-0.46	
3,193.0	0.30	15.00	3,192.5	-13.3	19.1	-5.8	0.72	-0.71	10.83	
3,277.0	0.40	44.70	3,276.5	-13.8	19.6	-5.6	0.24	0.12	35.36	
3,362.0	0.22	6.70	3,361.5	-14.2	19.9	-5.3	0.31	-0.21	-44.71	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 7-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Well:</b>	FD 7-31-2-2	<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)	
3,446.0	0.20	67.20	3,445.5	-14.5	20.2	-5.2	0.25	-0.02	72.02	
3,530.0	0.30	65.00	3,529.5	-14.8	20.3	-4.8	0.12	0.12	-2.62	
3,615.0	0.30	38.50	3,614.5	-15.2	20.6	-4.5	0.16	0.00	-31.18	
3,699.0	0.40	52.60	3,698.5	-15.7	20.9	-4.1	0.16	0.12	16.79	
3,783.0	0.40	75.60	3,782.5	-16.2	21.2	-3.6	0.19	0.00	27.38	
3,868.0	0.30	81.80	3,867.5	-16.5	21.3	-3.1	0.13	-0.12	7.29	
3,952.0	0.40	96.30	3,951.5	-16.8	21.3	-2.6	0.16	0.12	17.26	
4,037.0	0.60	121.20	4,036.5	-16.9	21.0	-1.9	0.34	0.24	29.29	
4,121.0	0.88	131.90	4,120.5	-16.8	20.4	-1.1	0.37	0.33	12.74	
4,205.0	0.09	0.30	4,204.5	-16.8	20.0	-0.6	1.12	-0.94	-156.67	
4,289.0	0.09	170.28	4,288.5	-16.8	20.0	-0.6	0.21	0.00	202.36	
4,374.0	0.31	178.70	4,373.5	-16.5	19.7	-0.6	0.26	0.26	9.91	
4,458.0	0.88	195.40	4,457.5	-15.7	18.9	-0.7	0.70	0.68	19.88	
4,542.0	0.80	291.07	4,541.5	-15.0	18.4	-1.4	1.48	-0.10	113.89	
4,627.0	0.88	284.50	4,626.5	-14.7	18.8	-2.6	0.15	0.09	-7.73	
4,711.0	0.71	268.11	4,710.4	-14.2	19.0	-3.8	0.34	-0.20	-19.51	
4,795.0	0.88	283.27	4,794.4	-13.7	19.1	-4.9	0.32	0.20	18.05	
4,880.0	0.71	2.28	4,879.4	-14.0	19.8	-5.5	1.20	-0.20	92.95	
4,964.0	0.00	4.00	4,963.4	-14.4	20.3	-5.5	0.85	-0.85	0.00	
5,048.0	0.62	214.17	5,047.4	-14.0	19.9	-5.8	0.74	0.74	0.00	
5,133.0	1.02	209.70	5,132.4	-12.8	18.9	-6.4	0.48	0.47	-5.26	
5,217.0	0.60	256.90	5,216.4	-11.7	18.1	-7.2	0.90	-0.50	56.19	
5,301.0	0.88	220.90	5,300.4	-10.8	17.5	-8.1	0.63	0.33	-42.86	
5,386.0	1.00	250.20	5,385.4	-9.5	16.8	-9.2	0.58	0.14	34.47	
5,470.0	1.10	238.20	5,469.4	-8.2	16.1	-10.6	0.29	0.12	-14.29	
5,554.0	1.41	265.69	5,553.4	-6.9	15.6	-12.3	0.80	0.37	32.73	
5,639.0	1.19	308.61	5,638.3	-6.4	16.1	-14.0	1.14	-0.26	50.49	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 7-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Well:</b>	FD 7-31-2-2	<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)	
5,723.0	1.02	328.09	5,722.3	-6.9	17.3	-15.1	0.49	-0.20	23.19	
5,807.0	0.49	297.68	5,806.3	-7.2	18.1	-15.8	0.77	-0.63	-36.20	
5,892.0	0.30	317.10	5,891.3	-7.2	18.4	-16.3	0.27	-0.22	22.85	
5,976.0	1.59	10.17	5,975.3	-8.4	19.7	-16.2	1.70	1.54	63.18	
6,060.0	1.10	17.41	6,059.3	-10.2	21.6	-15.8	0.62	-0.58	8.62	
6,144.0	0.22	75.98	6,143.3	-11.1	22.4	-15.4	1.19	-1.05	69.73	
6,229.0	0.40	246.00	6,228.3	-11.0	22.4	-15.5	0.73	0.21	200.02	
6,313.0	1.19	289.79	6,312.3	-10.6	22.5	-16.6	1.12	0.94	52.13	
6,397.0	0.80	246.47	6,396.3	-9.9	22.6	-17.9	0.98	-0.46	-51.57	
6,482.0	0.31	330.29	6,481.3	-9.5	22.6	-18.6	0.97	-0.58	98.61	
6,566.0	0.22	254.80	6,565.3	-9.5	22.7	-18.9	0.40	-0.11	-89.87	
6,651.0	0.71	36.58	6,650.2	-9.9	23.1	-18.7	1.05	0.58	166.80	
6,713.0	0.22	53.99	6,712.2	-10.4	23.5	-18.4	0.81	-0.79	28.08	
6,798.0	0.22	106.08	6,797.2	-10.6	23.5	-18.1	0.23	0.00	61.28	
6,883.0	0.71	173.28	6,882.2	-10.3	23.0	-17.9	0.77	0.58	79.06	
6,967.0	1.02	188.08	6,966.2	-9.2	21.7	-17.9	0.45	0.37	17.62	
7,052.0	1.41	193.28	7,051.2	-7.5	19.9	-18.3	0.48	0.46	6.12	
7,136.0	1.59	186.19	7,135.2	-5.4	17.8	-18.6	0.31	0.21	-8.44	
7,221.0	1.81	193.51	7,220.1	-3.1	15.3	-19.1	0.36	0.26	8.61	
7,305.0	1.81	189.67	7,304.1	-0.6	12.7	-19.6	0.14	0.00	-4.57	
7,390.0	0.22	241.10	7,389.1	0.8	11.3	-20.0	1.98	-1.87	60.51	
7,474.0	0.71	192.89	7,473.1	1.4	10.7	-20.2	0.70	0.58	-57.39	
7,559.0	1.02	184.87	7,558.1	2.6	9.4	-20.4	0.39	0.36	-9.44	
7,643.0	1.28	180.29	7,642.1	4.1	7.7	-20.5	0.33	0.31	-5.45	
7,728.0	1.68	186.10	7,727.0	6.0	5.6	-20.6	0.50	0.47	6.84	
7,812.0	2.12	181.08	7,811.0	8.5	2.8	-20.8	0.56	0.52	-5.98	
7,897.0	1.81	189.58	7,895.9	11.1	-0.1	-21.0	0.50	-0.36	10.00	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 7-31-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 31 T2S, R2E	<b>MD Reference:</b>	FD 7-31-2-2 @ 5045.0usft (CAPSTAR 328)
<b>Well:</b>	FD 7-31-2-2	<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)
7,981.0	1.02	211.88	7,979.9	13.0	-2.1	-21.6	1.13	-0.94	26.55
8,065.0	1.50	198.00	8,063.9	14.9	-3.7	-22.4	0.67	0.57	-16.52
8,150.0	1.19	197.78	8,148.9	16.8	-5.6	-23.0	0.36	-0.36	-0.26
8,234.0	0.71	183.99	8,232.9	18.1	-7.0	-23.3	0.63	-0.57	-16.42
8,319.0	1.02	167.11	8,317.8	19.1	-8.2	-23.2	0.47	0.36	-19.86
8,403.0	0.88	168.87	8,401.8	20.1	-9.6	-22.9	0.17	-0.17	2.10
8,487.0	1.19	168.78	8,485.8	21.2	-11.1	-22.6	0.37	0.37	-0.11
8,571.0	1.41	161.60	8,569.8	22.5	-12.9	-22.1	0.33	0.26	-8.55
8,656.0	1.41	156.18	8,654.8	23.8	-14.9	-21.3	0.16	0.00	-6.38
8,741.0	1.50	161.90	8,739.7	25.1	-16.9	-20.5	0.20	0.11	6.73
8,825.0	1.28	158.21	8,823.7	26.4	-18.8	-19.9	0.28	-0.26	-4.39
8,910.0	1.28	165.17	8,908.7	27.6	-20.6	-19.3	0.18	0.00	8.19
8,994.0	1.68	167.37	8,992.7	29.2	-22.7	-18.8	0.48	0.48	2.62
9,079.0	1.59	166.40	9,077.6	30.9	-25.1	-18.2	0.11	-0.11	-1.14
9,159.0	1.50	167.11	9,157.6	32.4	-27.2	-17.7	0.12	-0.11	0.89
9,210.0	1.50	167.11	9,208.6	33.4	-28.5	-17.4	0.00	0.00	0.00

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

Sundry Number: 51407 API Well Number: 43047540690000

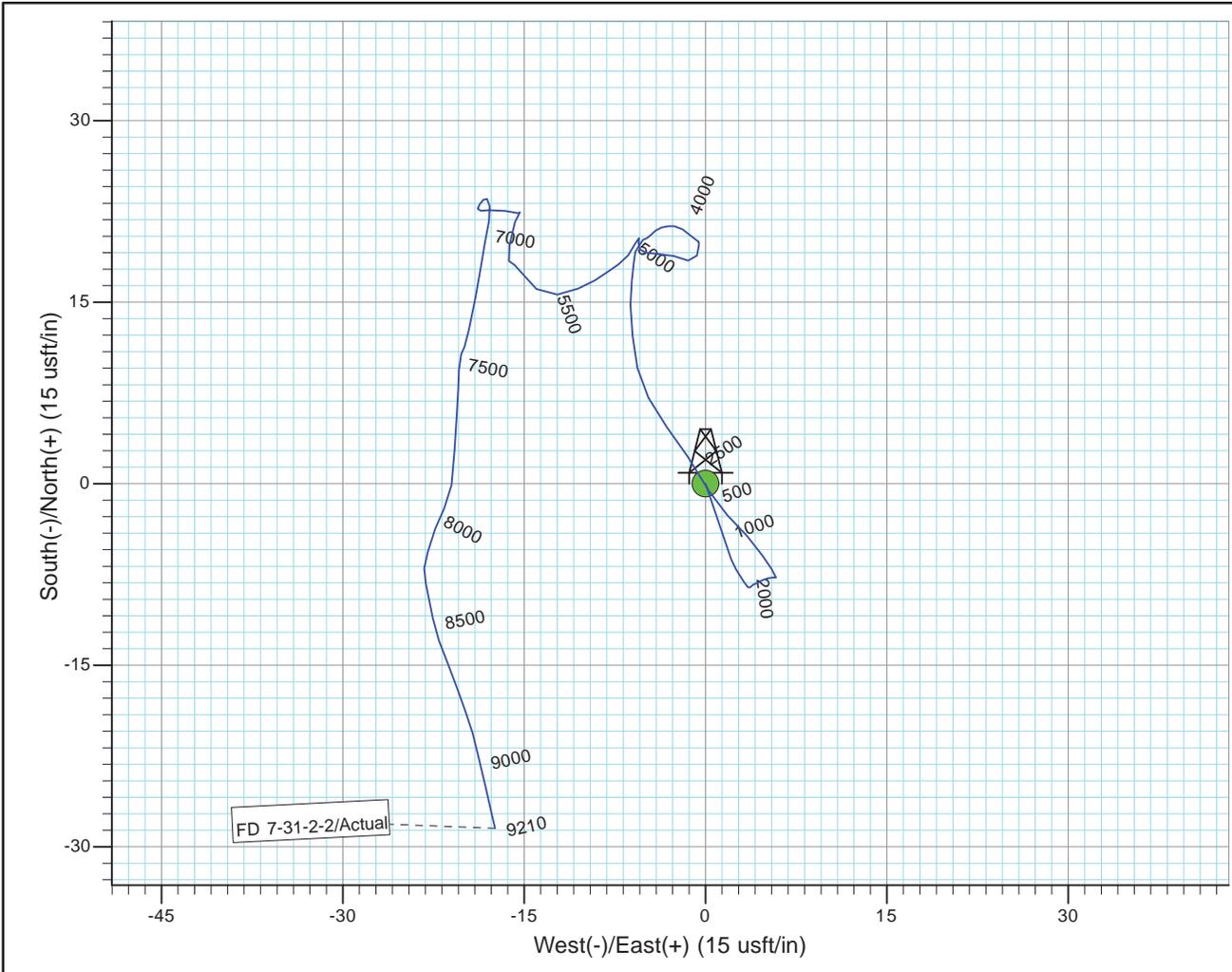
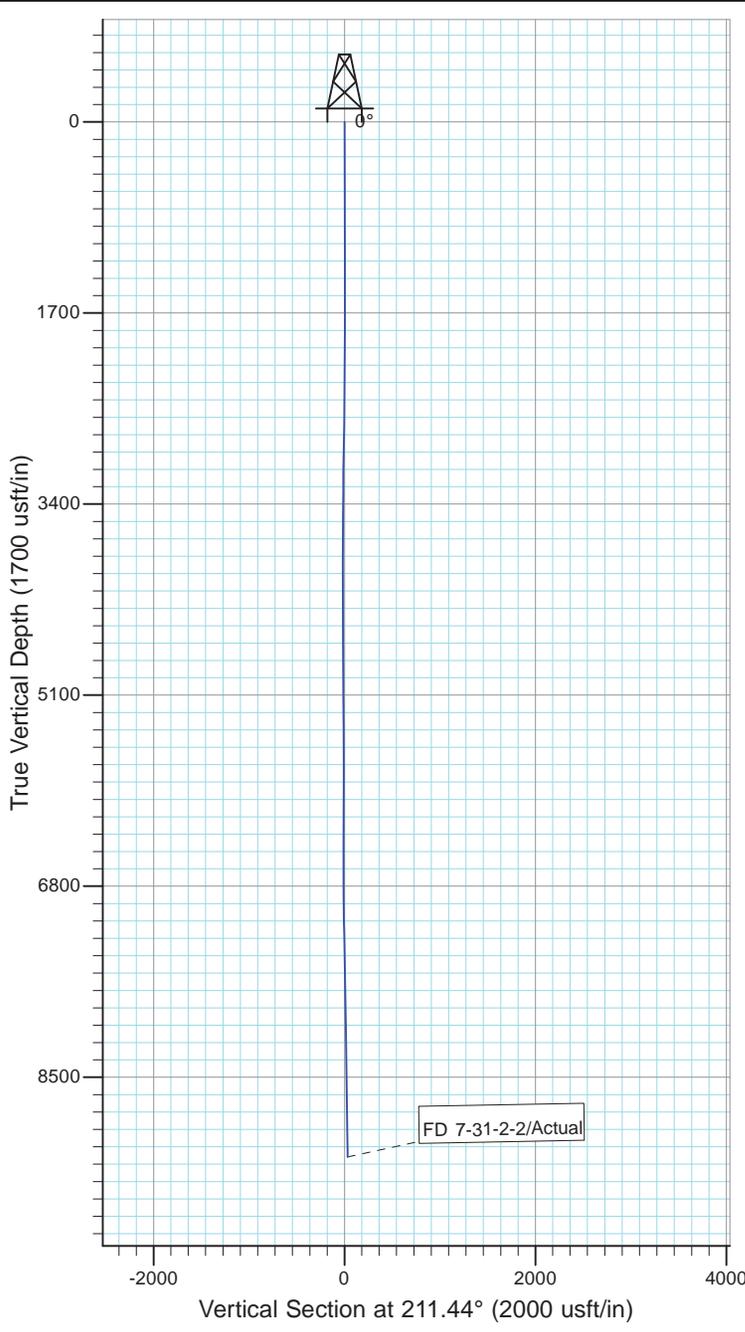


Project: Fort Duchesne  
Site: SECTION 31 T2S, R2E  
Well: FD 7-31-2-2  
Wellbore: Wellbore #1  
Design: Actual

T M

Azimuths to True North  
Magnetic North: 10.89°

Magnetic Field  
Strength: 52160.4snT  
Dip Angle: 65.96°  
Date: 3/5/2014  
Model: IGRF2010



Design: Actual (FD 7-31-2-2/Wellbore #1)

Created By: *Matthew Linton* Date: 8:31, March 18 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>	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 7-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540690000
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: 2020 FNL 2160 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 31 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
	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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/19/2014	<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="INTERIM REC COMPLETED"/>

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

INTERIM RECLAMATION WAS COMPLETED ON 6/19/2014 AND THE PIT  
WAS CLOSED ON 4/11/2014

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 January 08, 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> 1/6/2015	

<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 7-31-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540690000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2020 FNL 2160 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 31 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/24/2014	<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="SITE SECURITY DIAGRAM"/>

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

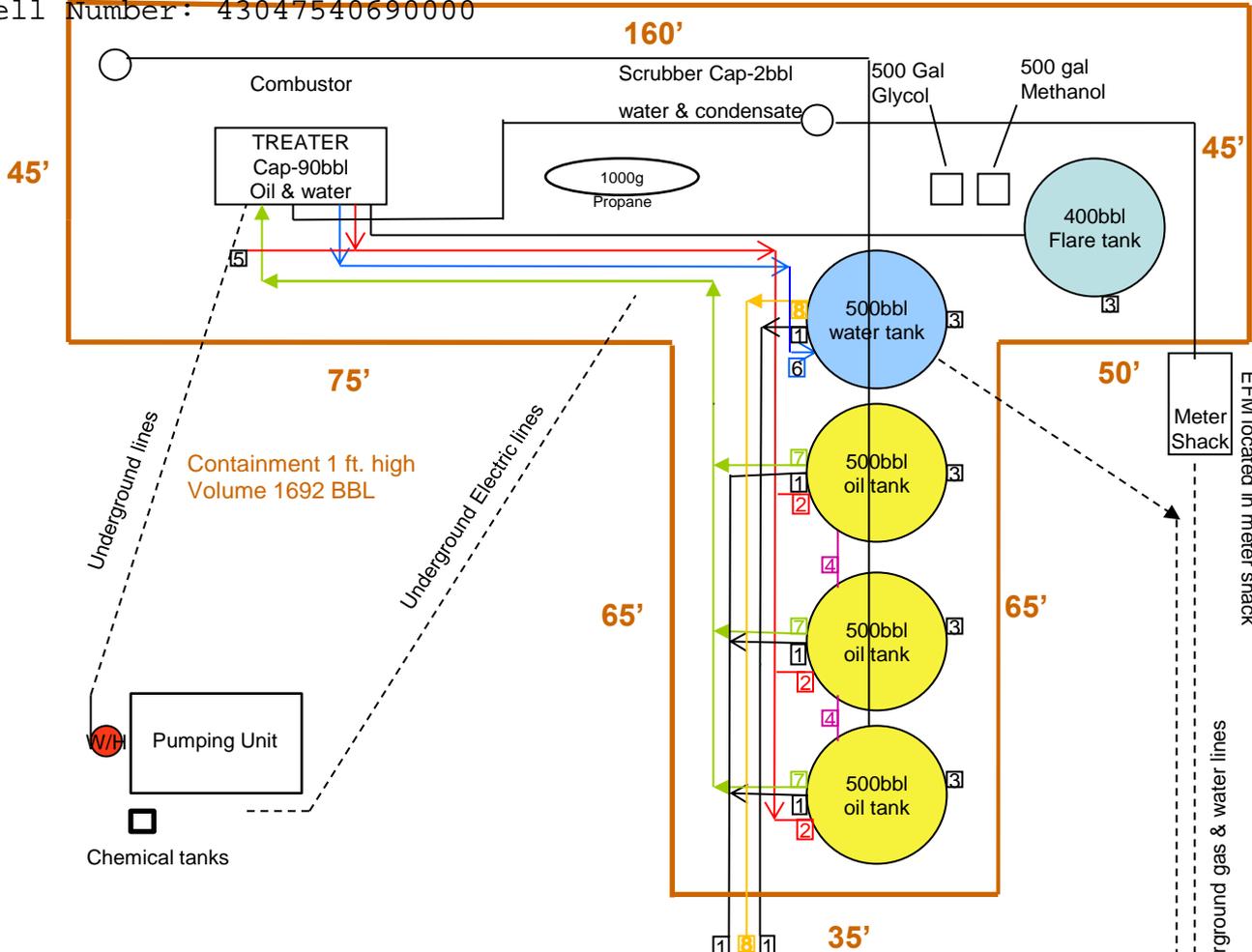
ATTACHED PLEASE FIND THE SITE SECURITY DIAGRAM FOR THIS PAD

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 February 04, 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	

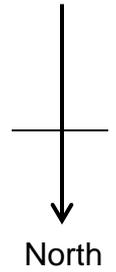
**BILL BARRETT CORPORATION**  
 FEE  
 FD 7-31-2-2  
 SW¼ NE¼ SEC 31,T2S, R2E,  
 Lease # FEE  
 API # 43-047-54069  
 Uintah Co. Utah

Site Security Plan Located at  
 Bill Barrett Corporation  
 Roosevelt Office  
 ROUTE 3 BOX 3110  
 1820 W HIGHWAY 40  
 ROOSEVELT, UT 84066



- Entrance →
- 1 - 4" LOAD LINE
  - Production Phase – sealed closed
  - Sales Phase- open to load Production bought
  - 2 - 3" PRODUCTION IN
  - Production Phase – open
  - Sales Phase – sealed close
  - 3 - 4" DRAIN
  - Production Phase – sealed closed
  - Sales Phase – sealed closed
  - Drain water – open
  - 4 - 4" UPPER EQUALIZER
  - Production Phase – open
  - Sales Phase – sealed close
  - 5 - BYPASS
  - 6 - 3" WATER LINES
  - Production Phase – open
  - No Sales Phase
  - 7- 2" RECYCLE
  - Production – open
  - Sales – sealed closed
  - 8- 2" WATER TANK SKIM
  - Not sealed

Surface Drainage to Southwest in to dry drainage adjacent to SW corner of Location.



- PRV, RUPTURE DISC & FLARE LINES- tie in to flare tank for emergency pressure relief of treater