

**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 7-32-2-2					
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		2262 FNL 2525 FEL		SWNE	32	2.0 S	2.0 E	U			
Top of Uppermost Producing Zone		2262 FNL 2525 FEL		SWNE	32	2.0 S	2.0 E	U			
At Total Depth		2262 FNL 2525 FEL		SWNE	32	2.0 S	2.0 E	U			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 146			23. NUMBER OF ACRES IN DRILLING UNIT 640					
27. ELEVATION - GROUND LEVEL 5138			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2096			26. PROPOSED DEPTH MD: 9728 TVD: 9728					
			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 - 9728	17.0	P-110 LT&C	9.5	Unknown		550	2.31	11.0
							Unknown		340	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 43047540700000			APPROVAL			 Permit Manager					

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

**FD 7-32-2-2**

SWNE, 2262' FNL and 2525' FEL, Section 32, T2S-R2E, USB&M (surface hole)

SWNE, 2262' FNL and 2525' FEL, Section 32, 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	5,517'
Mahogany	6,634'
Lower Green River*	7,742'
Douglas Creek	7,926'
Black Shale	8,445'
Castle Peak	8,534'
Wasatch*	9,228'
TD	9,728'

\*PROSPECTIVE PAY

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

Base of Useable Water = 3,701'

**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 7-32-2-2  
 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: 340 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 @ 7945'

### 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 4806 psi\* and maximum anticipated surface pressure equals approximately 2666 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 7-32-2-2  
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

**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



# Bill Barrett Corporation

## FORT DUCHESNE CEMENT VOLUMES

**Well Name:** [FD 7-32-2-2](#)

### 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:	9,728'
Top of Cement:	3,100'
Top of Tail:	7,945'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1259.1	ft <sup>3</sup>
Lead Fill:	4,845'	
Tail Volume:	463.4	ft <sup>3</sup>
Tail Fill:	1,783'	

### 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:	340

<b>FD 7-32-2-2 Proposed Cementing Program</b>
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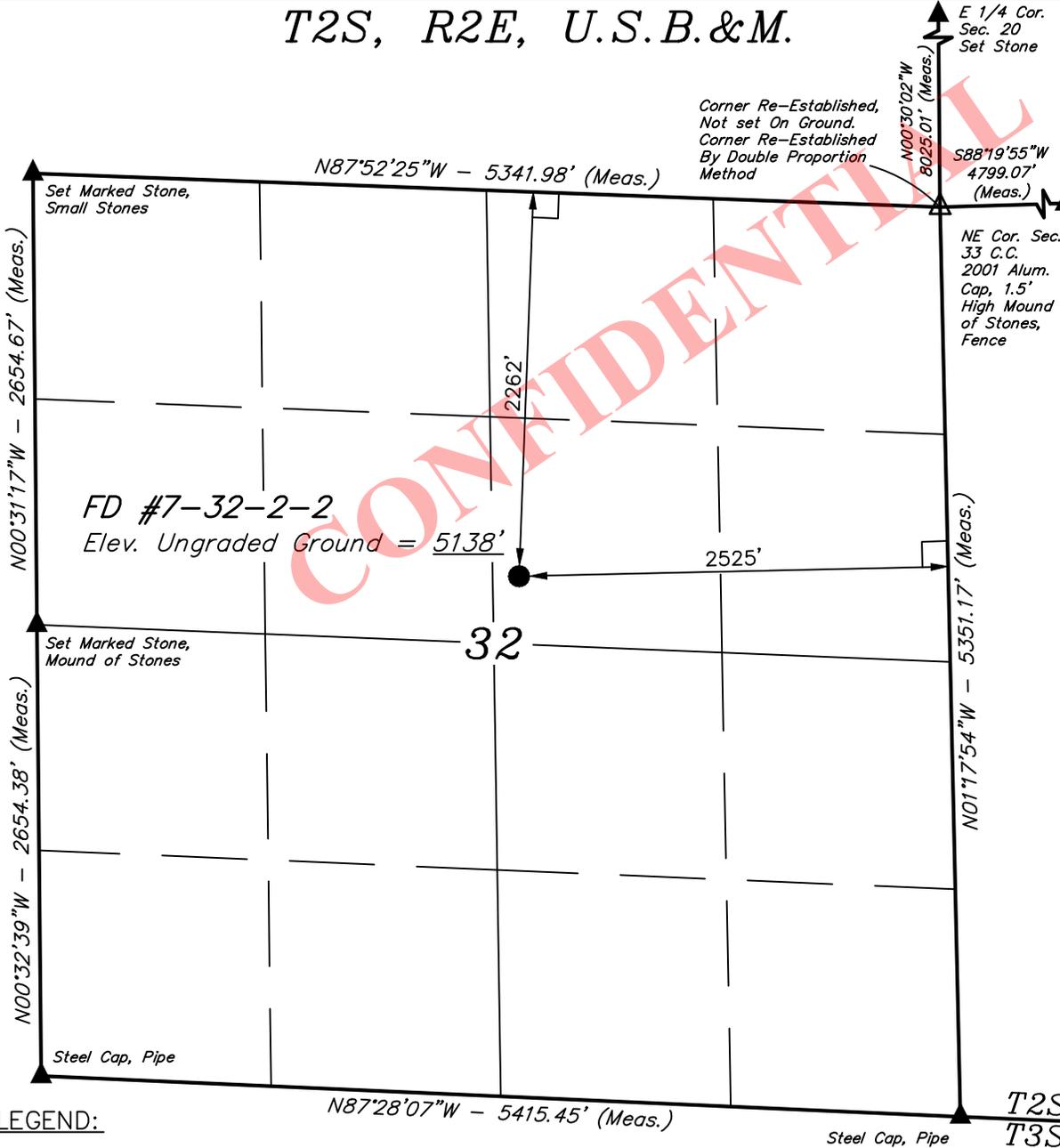
<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (3100' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 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 - (7945' - 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: 4,845'
	Volume: 224.24 bbl
	<b>Proposed Sacks: 550 sks</b>
<b>Tail Cement - (9728' - 7945')</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: 7,945'
	Calculated Fill: 1,783'
	Volume: 82.53 bbl
	<b>Proposed Sacks: 340 sks</b>

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

BILL BARRETT CORPORATION

Well location, FD #7-32-2-2, located as shown in the SW 1/4 NE 1/4 of Section 32, T2S, R2E, U.S.B.&M., Uintah County, Utah.

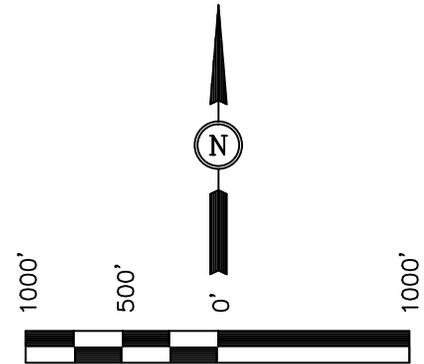


BASIS OF ELEVATION

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 KAV*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 161319  
 STATE OF UTAH

LEGEND:

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

NAD 83 (SURFACE LOCATION)	
LATITUDE	= 40°15'59.81" (40.266614)
LONGITUDE	= 109°47'33.35" (109.792597)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 40°15'59.95" (40.266653)
LONGITUDE	= 109°47'30.84" (109.791900)

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

SCALE 1" = 1000'	DATE SURVEYED: 08-19-13	DATE DRAWN: 08-22-13
PARTY C.R. J.S. S.S.	REFERENCES G.L.O. PLAT	
WEATHER HOT	FILE BILL BARRETT CORPORATION	

RECEIVED: October 24, 2013

# BILL BARRETT CORPORATION

## FD #7-32-2-2

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 32, T2S, R2E, U.S.B.&M.



PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY



- Since 1964 -

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

<b>LOCATION PHOTOS</b>	<b>08</b>	<b>30</b>	<b>13</b>	<b>PHOTO</b>
	MONTH	DAY	YEAR	
TAKEN BY: C.R.	DRAWN BY: A.T.		REVISED: 00-00-00	

# BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

FD #7-32-2-2

SECTION 32, T2S, R2E, U.S.B.&M.

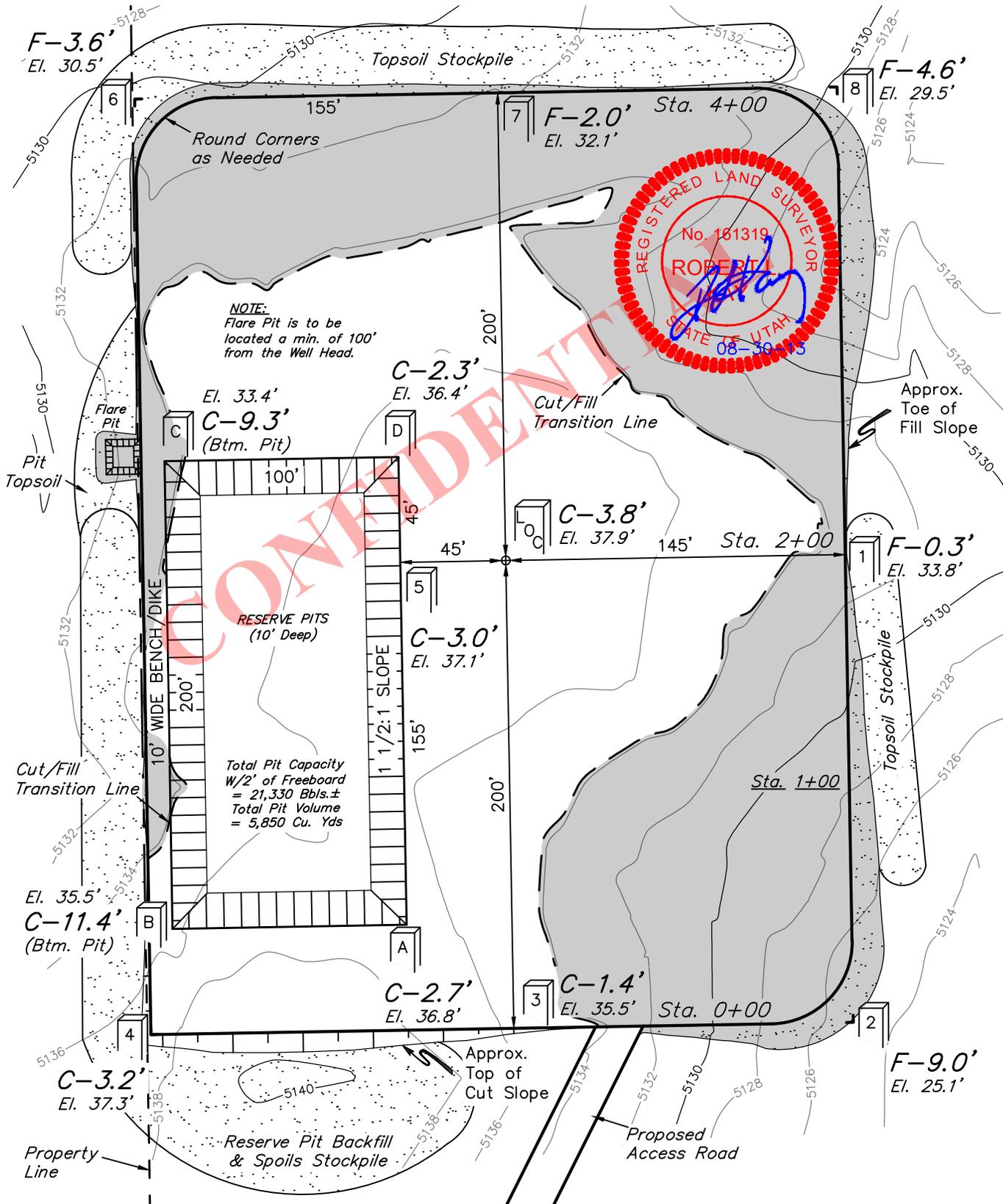
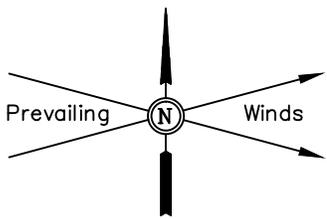
2262' FNL 2525' FEL

**FIGURE #1**

SCALE: 1" = 60'

DATE: 08-22-13

DRAWN BY: S.S.



Elev. Ungraded Ground At Loc. Stake = 5137.9'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5134.1'

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**

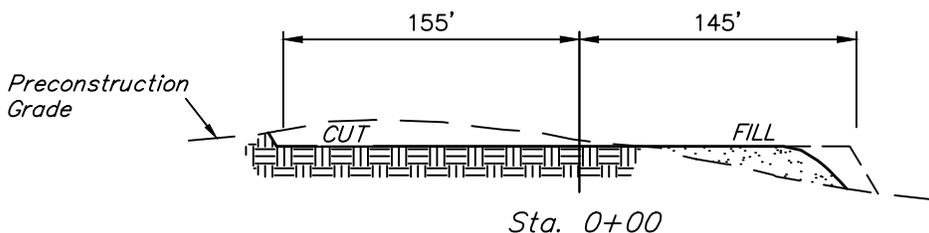
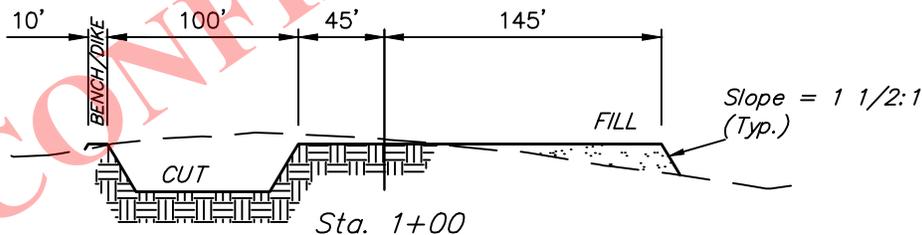
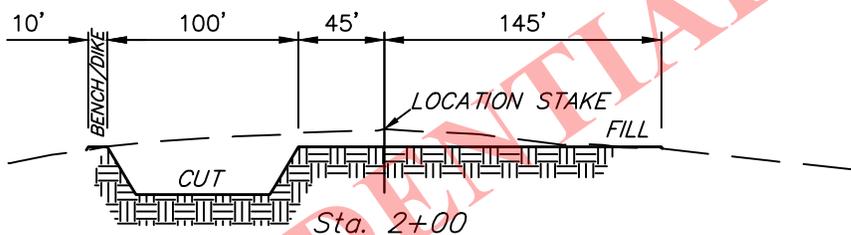
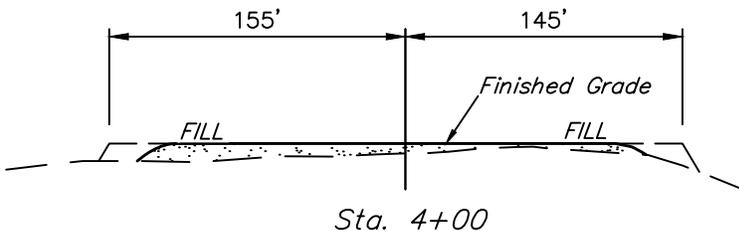
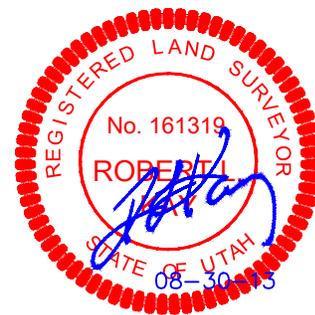
FD #7-32-2-2

SECTION 32, T2S, R2E, U.S.B.&M.

2262' FNL 2525' FEL

**FIGURE #2**

1" = 40'  
 X-Section Scale  
 1" = 100'  
 DATE: 08-22-13  
 DRAWN BY: S.S.



**NOTE:**

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

APPROXIMATE ACREAGE

WELL SITE DISTURBANCE	= ± 4.614 ACRES
ACCESS ROAD DISTURBANCE	= ± 1.332 ACRES
PIPELINE DISTURBANCE	= ± 1.220 ACRES
<b>TOTAL</b>	<b>= ± 7.166 ACRES</b>

\* NOTE: FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping	= 2,350 Cu. Yds.
Remaining Location	= 9,390 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 11,740 CU. YDS.</b>
<b>FILL</b>	<b>= 6,460 CU. YDS.</b>

EXCESS MATERIAL	= 5,280 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 5,280 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 #7-32-2-2

SECTION 32, T2S, R2E, U.S.B.&M.

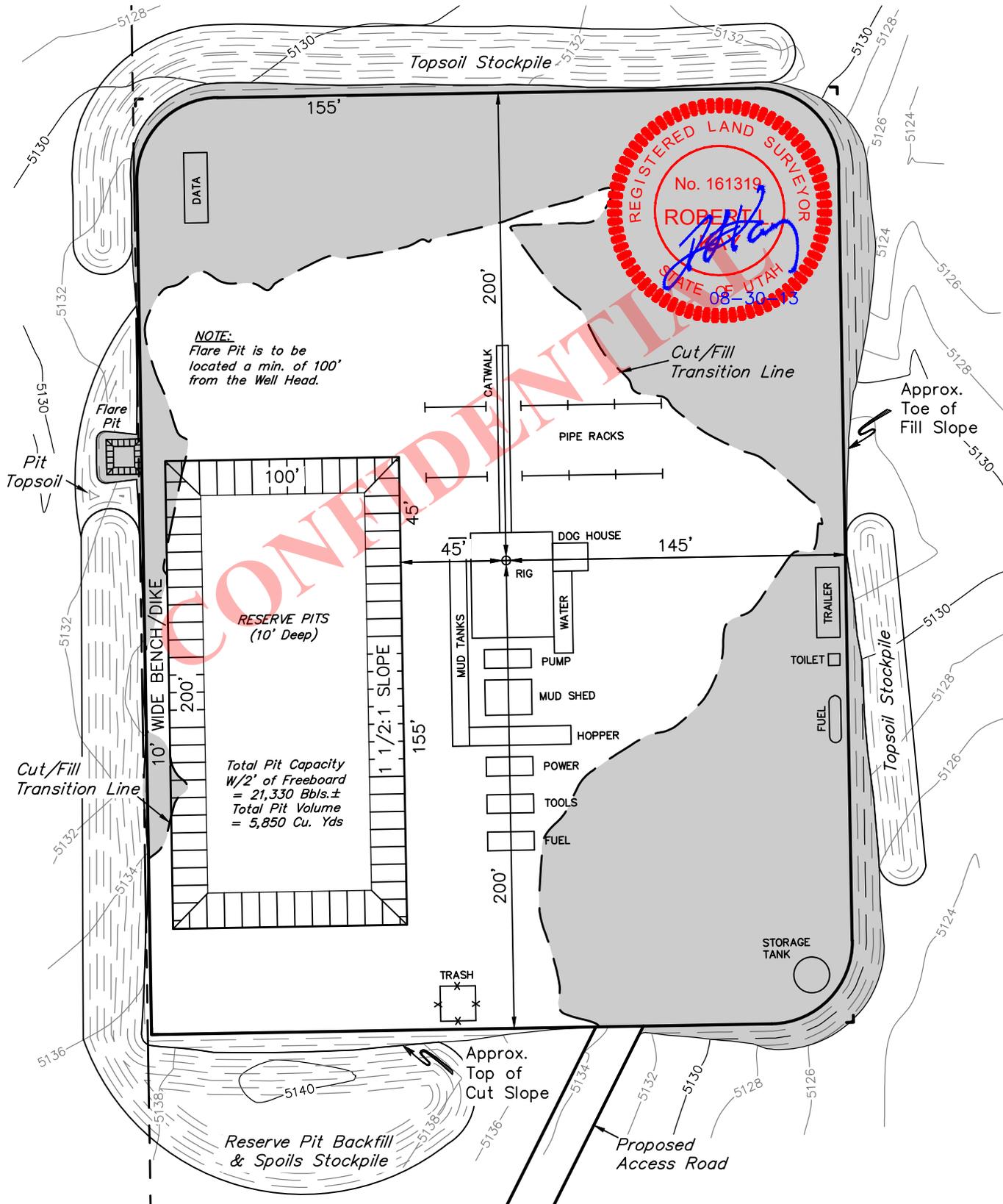
2262' FNL 2525' FEL

**FIGURE #3**

SCALE: 1" = 60'

DATE: 08-22-13

DRAWN BY: S.S.



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

RECEIVED: October 24, 2013

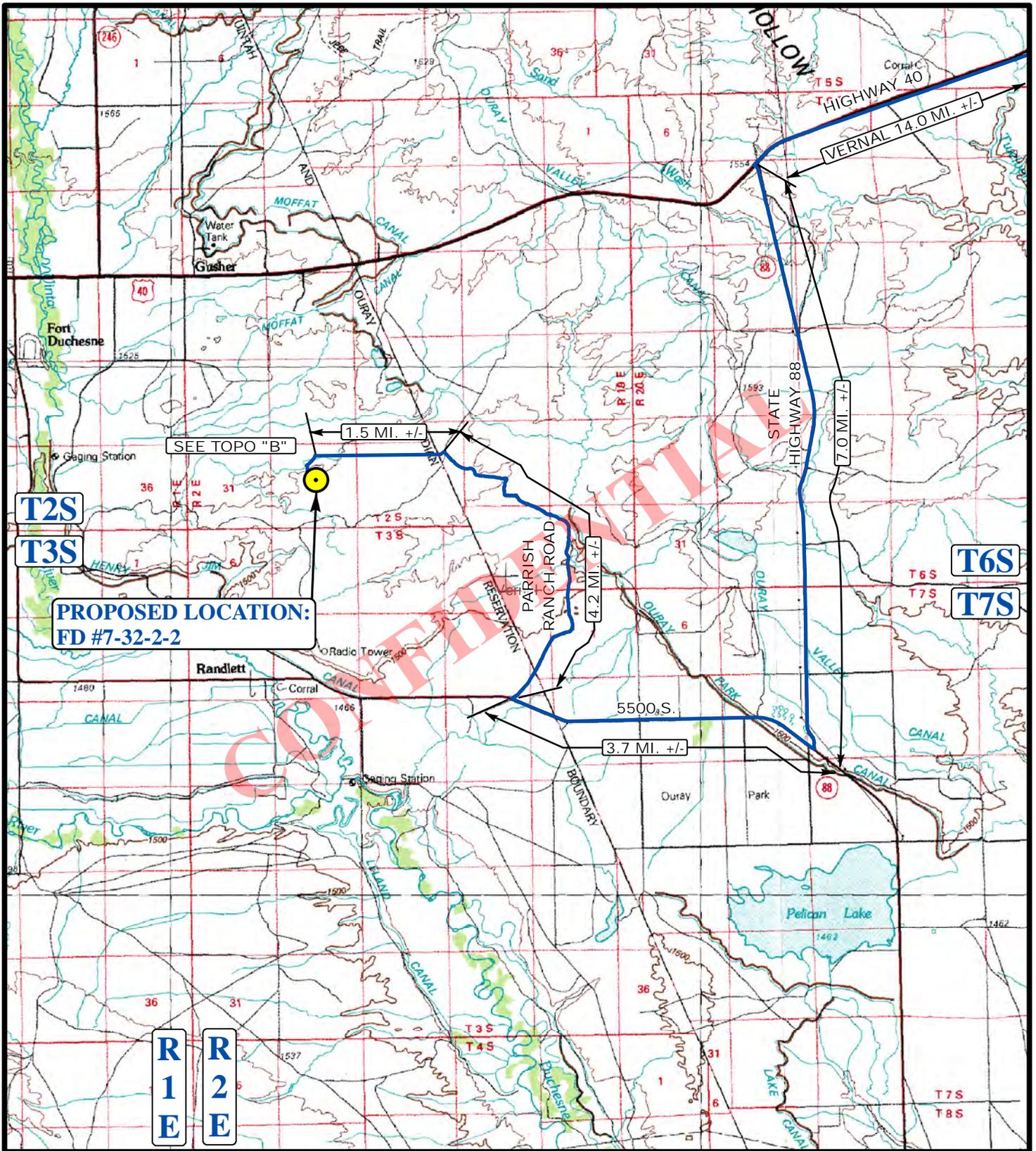
# BILL BARRETT CORPORATION

FD #7-32-2-2

SECTION 32, 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 SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTH; FOLLOW ROAD FLAGS IN A SOUTHERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1,972' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 30.9 MILES.



**LEGEND:**

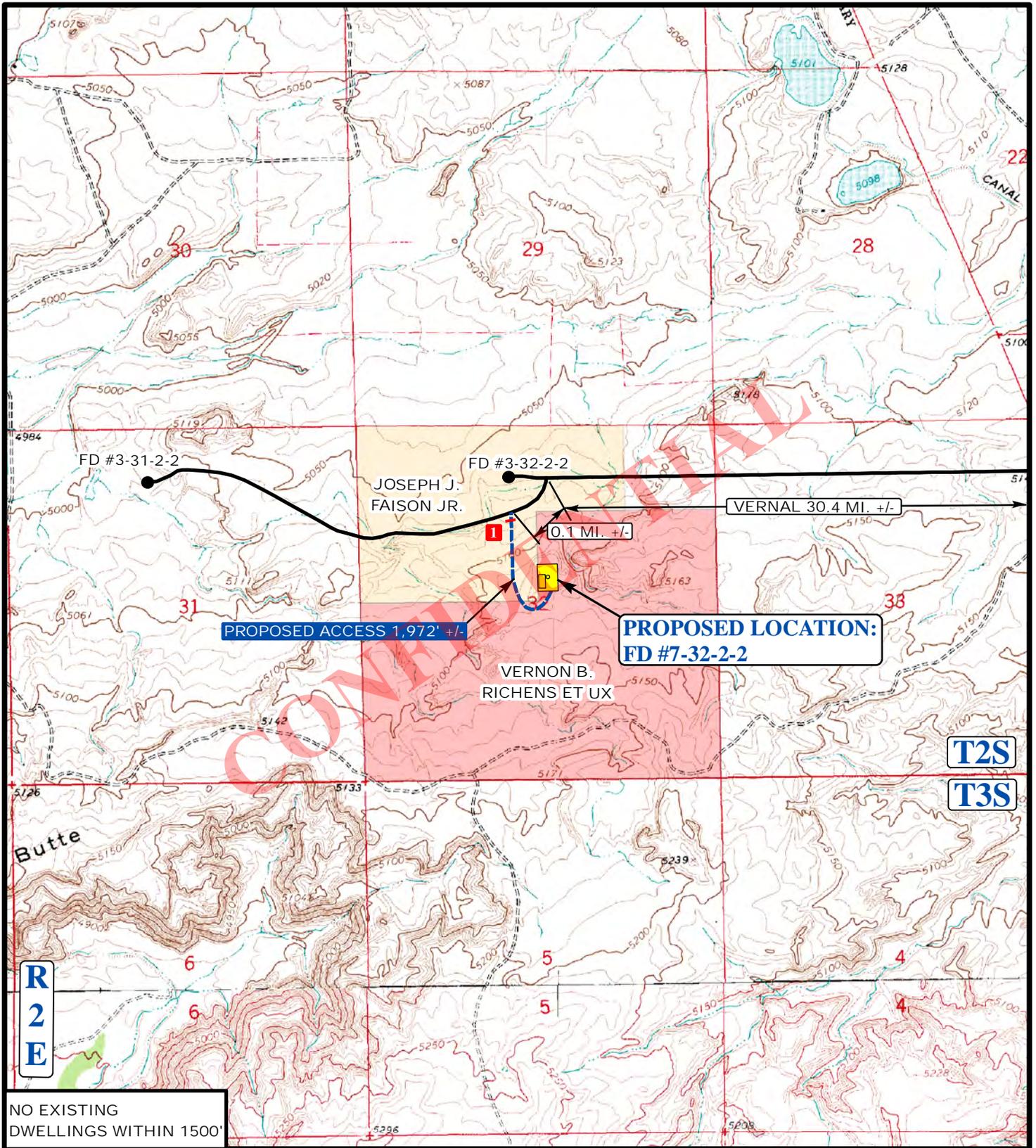
PROPOSED LOCATION

**BILL BARRETT CORPORATION**

**FD #7-32-2-2**  
**SECTION 32, T2S, R2E, U.S.B.&M.**  
**2262' FNL 2525' FEL**

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

**ACCESS ROAD MAP** **08 30 13**  
 MONTH DAY YEAR  
 SCALE: 1:100,000 DRAWN BY: A.T. REVISED: 00-00-00 **TOPO**



NO EXISTING DWELLINGS WITHIN 1500'

- LEGEND:**
- EXISTING ROADS
  - PROPOSED ACCESS ROAD
  - 18" CMP REQUIRED

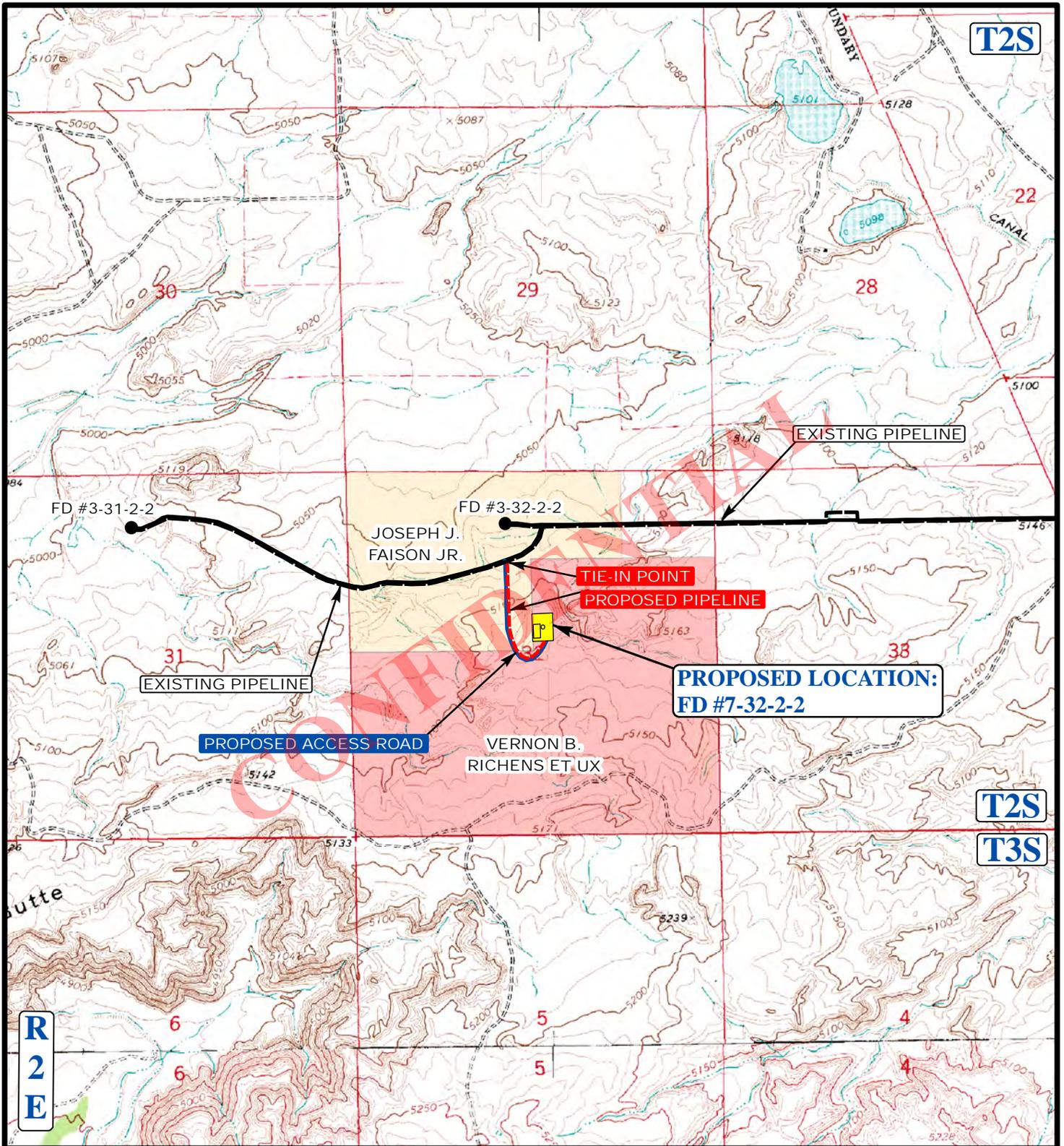
**UES** **Utah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

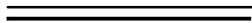
**FD #7-32-2-2**  
**SECTION 32, T2S, R2E, U.S.B.&M.**  
**2262' FNL 2525' FEL**

<b>ACCESS ROAD MAP</b>	<b>08</b> MONTH	<b>30</b> DAY	<b>13</b> YEAR	<b>B</b> TOPO
SCALE: 1"= 2000'	DRAWN BY: A.T.		REVISED: 00-00-00	



**APPROXIMATE TOTAL PIPELINE DISTANCE = 1,874' +/-**

**LEGEND:**

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



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



**BILL BARRETT CORPORATION**

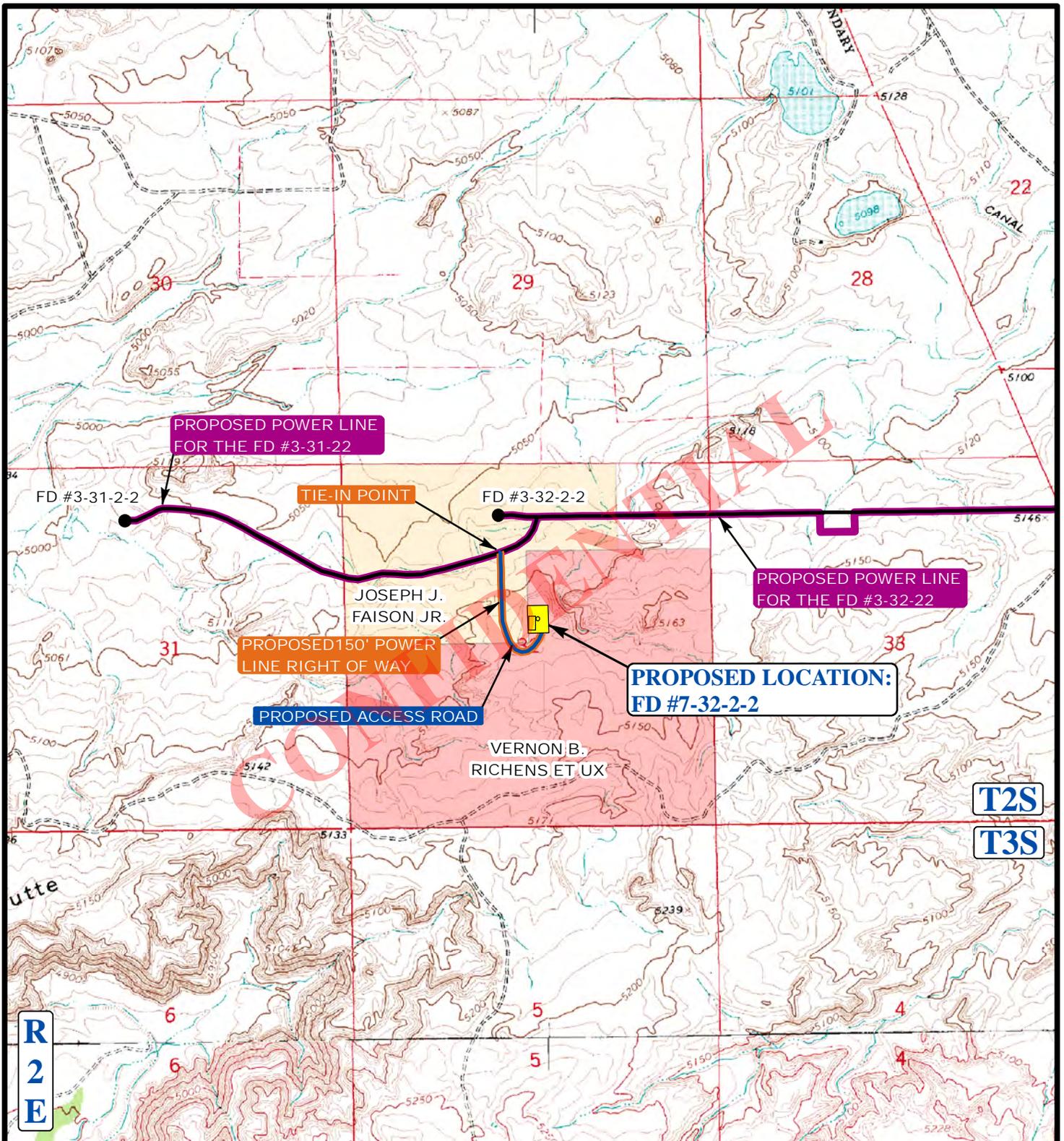
**FD #7-32-2-2**  
**SECTION 32, T2S, R2E, U.S.B.&M.**  
**2262' FNL 2525' FEL**

**TOPOGRAPHIC MAP**

**08 30 13**  
 MONTH DAY YEAR

SCALE: 1"= 2000' DRAWN BY: A.T. REVISED: 00-00-00





**APPROXIMATE TOTAL POWER LINE DISTANCE 1,987' +/-**

**LEGEND:**

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

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



**BILL BARRETT CORPORATION**

**FD #7-32-2-2**  
**SECTION 32, T2S, R2E, U.S.B.&M.**  
**2262' FNL 2525' FEL**

<b>TOPOGRAPHIC MAP</b>	<b>08</b>	<b>30</b>	<b>13</b>	<b>D TOPO</b>
	MONTH	DAY	YEAR	
SCALE: 1"= 2000'	DRAWN BY: A.T.		REVISED: 00-00-00	

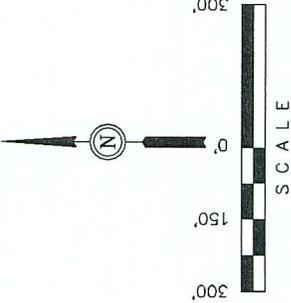


BILL BARRETT CORPORATION

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

(For FD #7-32-2-2)

LOCATED IN SECTION 32, T2S, R2E, U.S.B.&M., UINTAH COUNTY, UTAH



**SURFACE USE AREA DESCRIPTION**  
VERNON B. RICHENS, ET UX LANDS

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S48°01'03"E 3892.10' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S48°41'51"W 81.78'; THENCE S79°32'45"W 68.13'; THENCE N70°36'50"W 58.06' TO A POINT ON THE WEST LINE OF THE SW 1/4 NE 1/4 OF SAID SECTION 32, WHICH BEARS S45°38'09"E 3790.68' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE N00°55'02"W ALONG PROPERTY LINE 534.79' TO A POINT ON THE WEST LINE OF SW 1/4 NE 1/4 OF SAID SECTION 32 WHICH BEARS S51°55'54"E 3431.37' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE N43°38'25"E 0.34'; THENCE N89°57'22"E 287.94'; THENCE S42°54'49"E 73.02'; THENCE S04°41'20"E 337.56'; THENCE S22°52'47"W 107.25'; THENCE N89°44'28"W 132.02' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.037 ACRES MORE OR LESS.



**CERTIFICATE**

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

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

SCALE	DATE
1" = 300'	08-22-13
PARTY	REFERENCES
C.R. J.S. S.S.	G.L.O. PLAT
WEATHER	FILE
HOT	5 4 9 7 1

Corner Re-Established, Not set On Ground, Corner Re-Established By Double Proportion Method.

Section Line

**ROAD RIGHT-OF-WAY DESCRIPTION**  
ON JOSEPH J. FAISON, JR. LANDS

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

BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S58°48'13"E 2715.33' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S00°56'27"E 984.17'; THENCE S14°51'08"E 163.56'; THENCE S21°07'54"E 160.01'; THENCE S39°15'54"E 73.31' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 NW 1/4 OF SAID SECTION 32, WHICH BEARS S42°03'10"E 3709.77' FROM THE NORTHWEST CORNER OF SAID SECTION 32. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.951 ACRES MORE OR LESS.

**BASIS OF BEARINGS**

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

N017°54'W - 5351.17' (Meas.)

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

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

BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 SW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S42°03'10"E 3709.77' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S39°15'54"E 67.27'; THENCE S64°39'02"E 91.15'; THENCE N81°03'00"E 89.06'; THENCE N52°24'49"E 110.93'; THENCE N37°41'26"E 125.93'; THENCE N26°32'08"E 68.31' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 32 WHICH BEARS S48°01'03"E 3892.10' FROM THE NORTHWEST CORNER OF SAID SECTION 32. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.381 ACRES MORE OR LESS.

**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
JOSEPH J. FAISON, JR.	1381.05	0.951	83.70
VERNON B. RICHENS, ET UX	552.65	0.381	33.49

▲ = SECTION CORNERS LOCATED.  
△ = SECTION CORNERS RE-ESTABLISHED.  
(Not Set on Ground)

SE Cor. Sec. 32, Steel Cop. Pipe

N87°52'25"W - 5341.98' (Meas.)

LINE TABLE		LINE TABLE			
LINE	DIRECTION	LENGTH	LINE	DIRECTION	LENGTH
L1	S00°56'27"E	984.17'	L14	N70°36'50"W	58.06'
L2	S14°51'08"E	163.56'	L15	N00°55'02"W	534.79'
L3	S21°07'54"E	160.01'	L16	N43°38'25"E	0.34'
L4	S39°15'54"E	73.31'	L17	N89°57'22"E	287.94'
L5	S39°15'54"E	67.27'	L18	S42°54'49"E	73.02'
L6	S64°39'02"E	91.15'	L19	S04°41'20"E	337.56'
L7	N81°03'00"E	89.06'	L20	S22°52'47"W	107.25'
L8	N52°24'49"E	110.93'	L21	N89°44'28"W	132.02'
L9	N37°41'26"E	125.93'	L22	N70°36'50"W	6.56'
L10	N26°32'08"E	68.31'	L23	N42°06'01"W	60.23'
L11	N26°32'08"E	38.44'	L24	N16°40'10"W	28.15'
L12	S48°41'51"W	81.78'	L25	N00°33'22"W	408.42'
L13	S79°32'45"W	68.13'	L26	N43°38'25"E	72.52'

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

1/16 Section Line

**SURFACE USE AREA DESCRIPTION**  
ON NE 1/4 JOSEPH J. FAISON, JR. LANDS

BEGINNING AT A POINT ON THE EAST LINE OF THE SE 1/4 NW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S45°38'09"E 3790.68' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE N70°36'50"W 6.56'; THENCE N42°06'01"W 60.23'; THENCE N16°40'10"W 28.15'; THENCE N00°33'22"W 408.42'; THENCE N43°38'25"E 72.52' TO A POINT ON THE EAST LINE OF THE SE 1/4 NW 1/4 OF SAID SECTION 32 WHICH BEARS S51°55'54"E 3431.37' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE S00°55'02"E ALONG PROPERTY LINE 534.79' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.577 ACRES MORE OR LESS.

**SURFACE USE AREA ED. #7-32-2-2**  
Contains 4.614 Acres

Vernon B. Richens, ET UX

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 19+33.70 (At Edge of Surface Use Area)

1/4 Section Line

SW 1/4 Vernon B. Richens, ET UX

Sec. 32

SE 1/4 Vernon B. Richens, ET UX

1/4 Section Line

BEGINNING OF ROAD STA. 0+00 BEARS S58°48'13"E 2715.33' FROM THE NORTHWEST CORNER OF SECTION 32, T2S, R2E, U.S.B.&M.

P.O.P.L. #1 BEARS S42°03'10"E 3709.77' FROM THE NORTHWEST CORNER OF SECTION 32, T2S, R2E, U.S.B.&M.

END OF ROAD STA. 19+33.70 BEARS S48°01'03"E 3892.10' FROM THE NORTHWEST CORNER OF SECTION 32, T2S, R2E, U.S.B.&M.

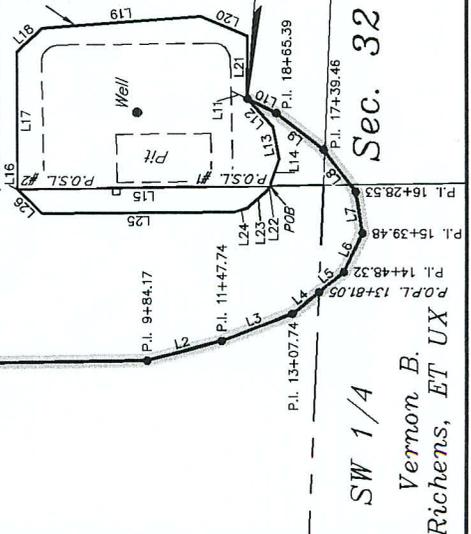
P.O.P.L. #2 BEARS S45°38'09"E 3790.68' FROM THE NORTHWEST CORNER OF SECTION 32, T2S, R2E, U.S.B.&M.

P.O.P.L. #3 BEARS S51°55'54"E 3431.37' FROM THE NORTHWEST CORNER OF SECTION 32, T2S, R2E, U.S.B.&M.

Existing Road

NW 1/4

Joseph J. Faison, Jr.



## SURFACE USE AGREEMENT

(FD 7-32-2-2)

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)

, hereinafter referred to as "Surface Owners", and

**Bill Barrett Corporation and its Subsidiaries**, whose address is 1099 18<sup>th</sup> Street, #2300, Denver, CO 80202

hereinafter referred to as "Operator".

WITNESSETH:

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

A tract of land lying in the **SW/4NE/4, NE/4SW/4 and NW/4SE/4 of Section 32, 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

**SURFACE OWNERS:**

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

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

STATE of Utah ACKNOWLEDGEMENT

COUNTY of Uintah

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

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

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

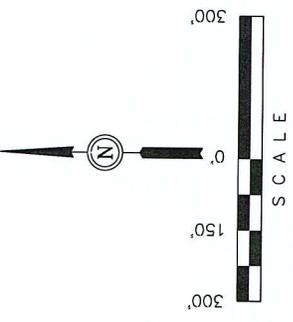
My Commission Expires: 11.25.2014

Terra M. Miller  
Notary Public:



**BILL BARRETT CORPORATION**  
**LOCATION SURFACE USE AREA**  
**& ROAD RIGHT-OF-WAY ON**  
**FREE LANDS**  
*(For FD #7-32-2-2)*

LOCATED IN  
 SECTION 32, T2S, R2E, U.S.B.&M.,  
 UINTAH COUNTY, UTAH



**SURFACE USE AREA DESCRIPTION**  
**VERNON B. RICHENS, ET UX LANDS**

BEGINNING AT A POINT IN THE SW 1/4 NE 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S48°01'03"E 3892.10' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S48°41'51"W 81.78'; THENCE S79°32'45"W 68.13'; THENCE N70°36'50"W 58.06' TO A POINT ON THE WEST LINE OF THE SW 1/4 NE 1/4 OF SAID SECTION 32, WHICH BEARS S45°38'09"E 3790.68' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE N00°55'02"W ALONG PROPERTY LINE 534.79' TO A POINT ON THE WEST LINE OF SW 1/4 NE 1/4 OF SAID SECTION 32 WHICH BEARS S51°55'54"E 3431.37' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE N43°38'25"E 0.34'; THENCE N89°57'22"E 287.94'; THENCE S42°54'49"E 73.02'; THENCE S04°41'20"E 337.56'; THENCE S22°52'47"W 107.25'; THENCE N89°44'28"W 132.02' TO THE POINT OF BEGINNING, BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.037 ACRES MORE OR LESS.



**CERTIFICATE**  
 THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEY MADE UNDER MY SUPERVISION AND THAT THE SAME WILL BE TRUE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH - 200 EAST • (435) 739-1017  
 VERNAL, UTAH - 84073

SCALE	1" = 300'	DATE	08-22-13
PARTY	C.R. J.S. S.S.	REFERENCES	G.L.O. PLAT
WEATHER	HOT	FILE	5 4 9 7 1

Corner Re-established  
 Not set for  
 By Double  
 Method.

**ROAD RIGHT-OF-WAY DESCRIPTION**  
**ON JOSEPH J. FAISON, JR. LANDS**  
 A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:  
 BEGINNING AT A POINT IN THE NE 1/4 NW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S58°48'13"E 2715.33' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S00°58'27"E 984.17'; THENCE S14°51'08"E 163.56'; THENCE S21°07'54"E 150.01'; THENCE S39°15'54"E 73.31' TO A POINT ON THE SOUTH LINE OF THE SE 1/4 NW 1/4 OF SAID SECTION 32, WHICH BEARS S42°03'10"E 3709.77' FROM THE NORTHWEST CORNER OF SAID SECTION 32. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.951 ACRES MORE OR LESS.

**BASIS OF BEARINGS**

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

**ROAD RIGHT-OF-WAY DESCRIPTION**  
**ON VERNON B. RICHENS, ET UX LANDS**  
 A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:  
 BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 SW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S42°03'10"E 3709.77' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE S39°15'54"E 67.27'; THENCE S64°39'02"E 91.15'; THENCE N87°03'00"E 89.08'; THENCE N52°24'49"E 110.93'; THENCE N37°41'28"E 125.93'; THENCE N26°32'08"E 68.31' TO A POINT IN THE SW 1/4 NE 1/4 OF SAID SECTION 32 WHICH BEARS S48°01'03"E 3892.10' FROM THE NORTHWEST CORNER OF SAID SECTION 32. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.381 ACRES MORE OR LESS.

**RIGHT-OF-WAY LENGTHS**

PROPERTY OWNER	FEET	ACRES	RODS
JOSEPH J. FAISON, JR.	1381.05	0.951	83.70
VERNON B. RICHENS, ET UX	552.65	0.381	33.49

▲ = SECTION CORNERS LOCATED.  
 △ = SECTION CORNERS RE-ESTABLISHED.  
 (Not Set on Ground)

SE Cor. Sec. 32  
 Steel Cap. Pipe

N87°52'25"W - 5341.98' (Meas.)

**LINE TABLE**

LINE	DIRECTION	LENGTH
L14	N70°36'50"W	58.06'
L15	N00°55'02"W	534.79'
L16	N43°30'25"E	0.34'
L17	N89°57'22"E	287.94'
L18	S42°54'49"E	73.02'
L19	S04°41'20"E	337.56'
L20	S22°52'47"W	107.25'
L21	N89°44'28"W	132.02'
L22	N70°36'50"W	5.55'
L23	N42°08'01"W	60.23'
L24	N16°40'10"W	281.15'
L25	N00°33'22"W	408.42'
L26	N43°30'25"E	72.52'

**LINE TABLE**

LINE	DIRECTION	LENGTH
L1	S00°58'27"E	984.17'
L2	S14°51'08"E	163.56'
L3	S21°07'54"E	150.01'
L4	S39°15'54"E	73.31'
L5	S42°03'10"E	67.27'
L6	S58°48'02"E	91.15'
L7	N81°03'00"E	89.08'
L8	N52°24'49"E	110.93'
L9	N37°41'28"E	125.93'
L10	N26°32'08"E	68.31'
L11	N26°32'08"E	30.44'
L12	S48°01'03"E	81.78'
L13	S79°32'45"W	60.13'

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

**SURFACE USE AREA DESCRIPTION ON**  
**NE 1/4 -**  
**JOSEPH J. FAISON, JR. LANDS**

BEGINNING AT A POINT ON THE EAST LINE OF THE SE 1/4 NW 1/4 OF SECTION 32, T2S, R2E, U.S.B.&M., WHICH BEARS S45°38'09"E 3790.68' FROM THE NORTHWEST CORNER OF SAID SECTION 32, THENCE N70°36'50"W 5.56'; THENCE N42°06'01"W 60.23'; THENCE N16°40'10"W 281.15'; THENCE N00°33'22"W 408.42'; THENCE N43°38'25"E 72.52' TO A POINT ON THE EAST LINE OF THE SE 1/4 NW 1/4 OF SAID SECTION 32 WHICH BEARS S51°55'54"E 3431.37' FROM THE NORTHWEST CORNER OF SAID SECTION 32; THENCE S00°55'02"E ALONG PROPERTY LINE 534.79' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.577 ACRES MORE OR LESS.

**SURFACE USE AREA**  
 FD #7-32-2-2  
 Contains 4.614 Acres

**Vernon B. Richens, ET UX**

**END OF PROPOSED ROAD RIGHT-OF-WAY**  
 STA. 19+33.70  
 (At Edge of Surface Use Area)

**Sec. 32**  
**SW 1/4**  
**Vernon B. Richens, ET UX**  
**SE 1/4**  
**Vernon B. Richens, ET UX**

NW Cor. Sec. 32  
 Set Marked Stone,  
 Small Stones

**BEGINNING OF ROAD STA. 0+00**  
 BEARS S58°48'13"E 2715.33'  
 FROM THE NORTHWEST CORNER  
 OF SECTION 32, T2S, R2E,  
 U.S.B.&M.

**P.O.P.L. #1** BEARS S45°38'09"E  
 3790.68' FROM THE NORTHWEST  
 CORNER OF SECTION 32, T2S,  
 R2E, U.S.B.&M.

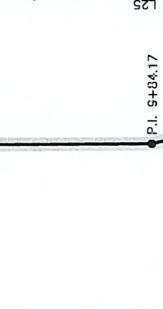
**P.O.P.L. #2** BEARS S51°55'54"E  
 3431.37' FROM THE NORTHWEST  
 CORNER OF SECTION 32, T2S,  
 R2E, U.S.B.&M.

**Existing Road**  
**Joseph J. Faison, Jr.**

**Joseph J. Faison, Jr.**

**Joseph J. Faison, Jr.**

**Joseph J. Faison, Jr.**

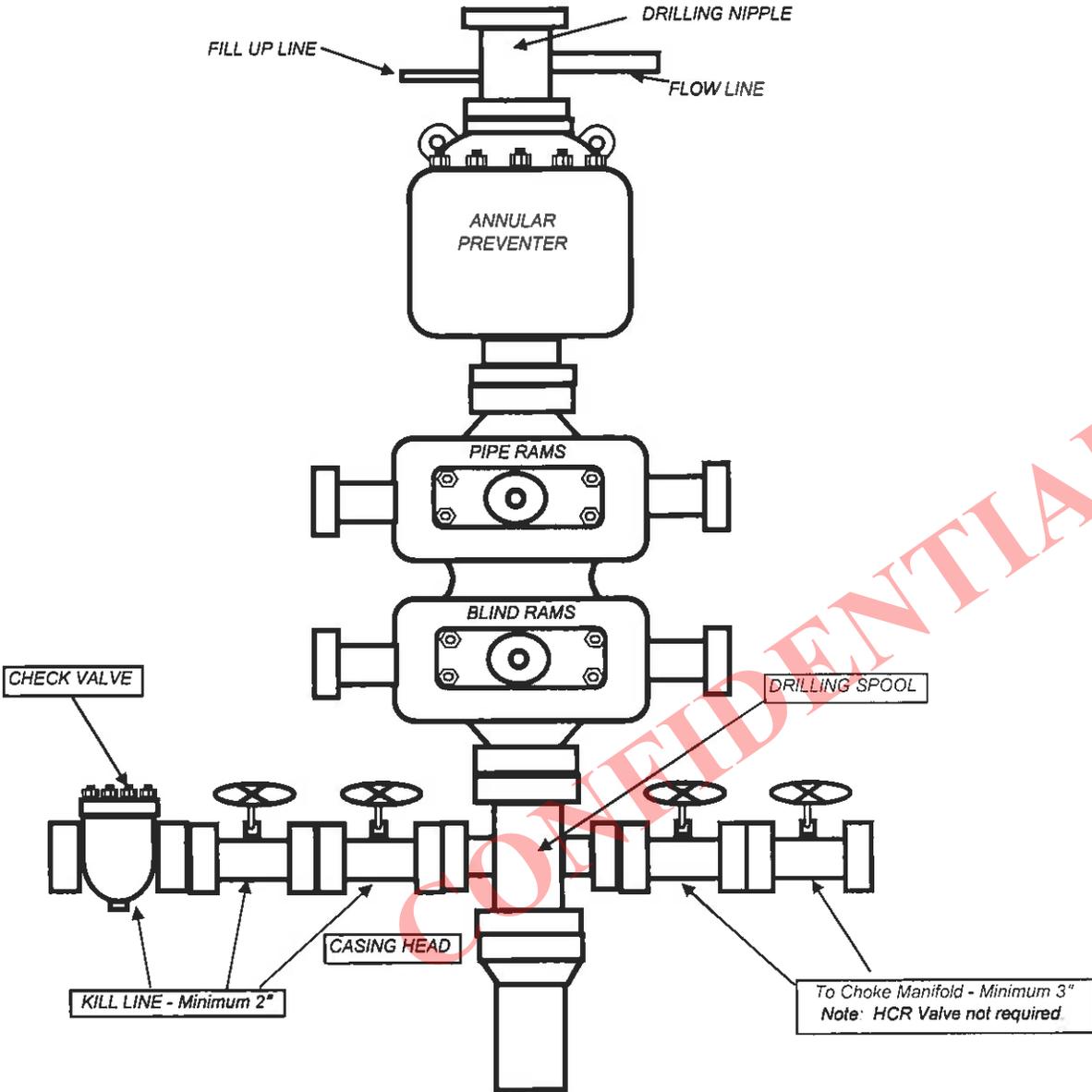


**Joseph J. Faison, Jr.**

**Joseph J. Faison, Jr.**

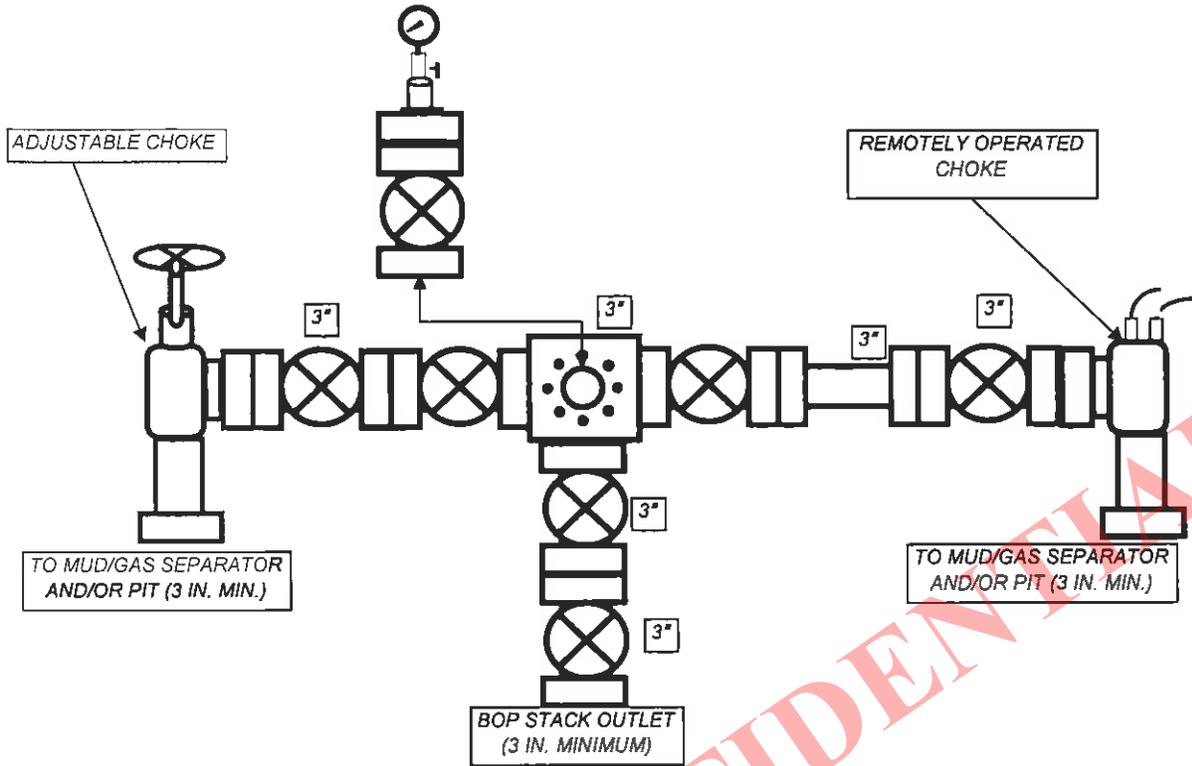
# BILL BARRETT CORPORATION

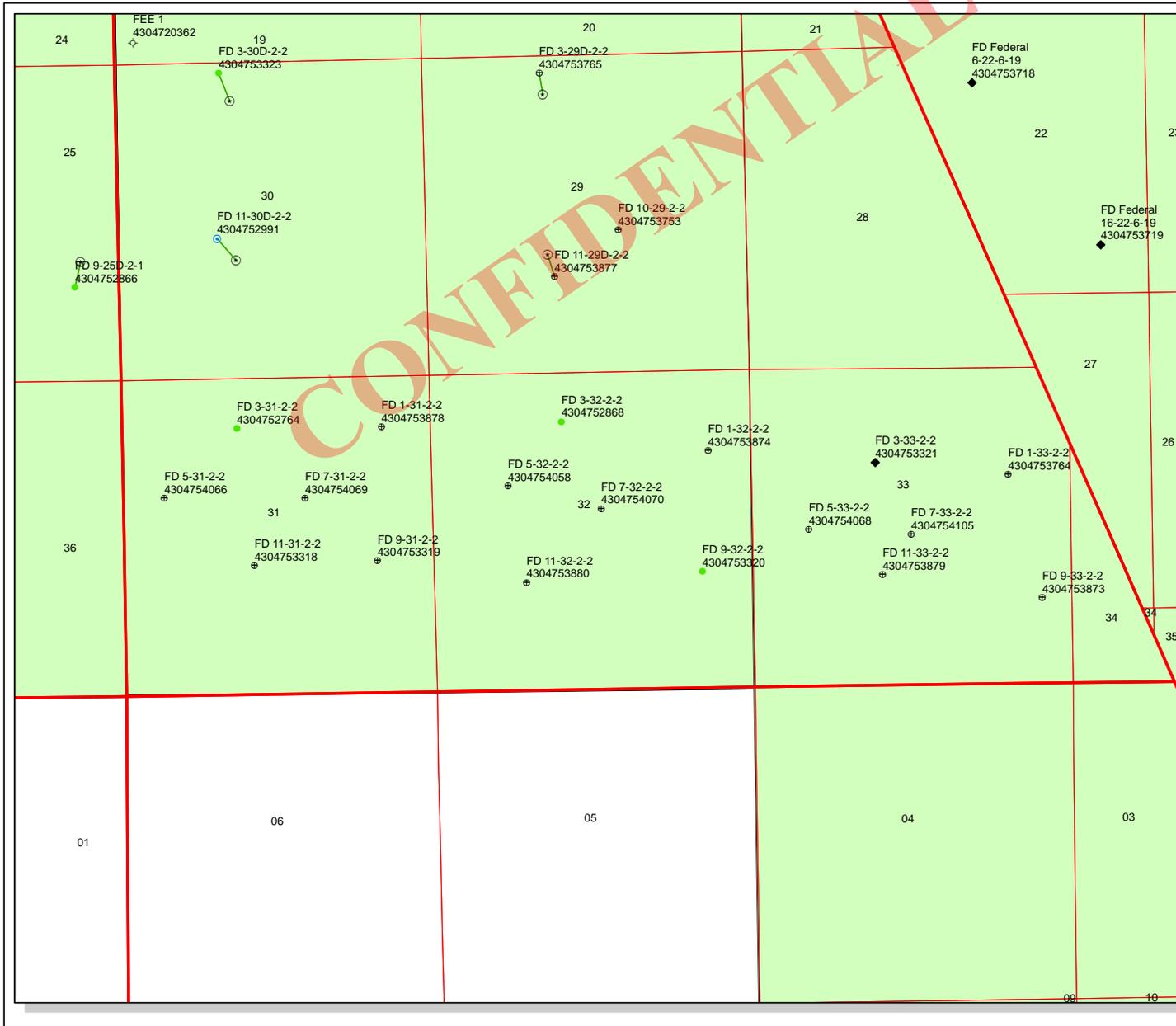
## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER



# BILL BARRETT CORPORATION

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





**API Number: 4304754070**

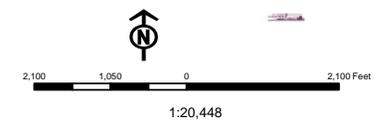
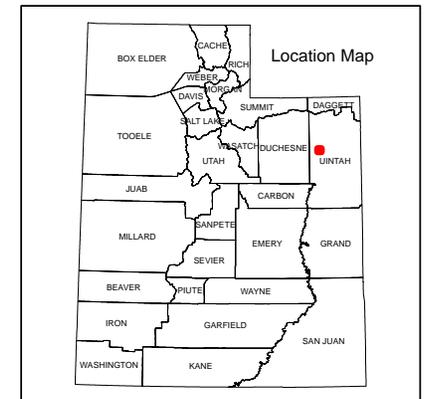
**Well Name: FD 7-32-2-2**

Township: T02.0S Range: R02.0E Section: 32 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
⊕ GW - 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	



Well Name	BILL BARRETT CORP FD 7-32-2-2 43047540700000			
String	Cond	Surf	Prod	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	3600	9728	
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)	4806		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

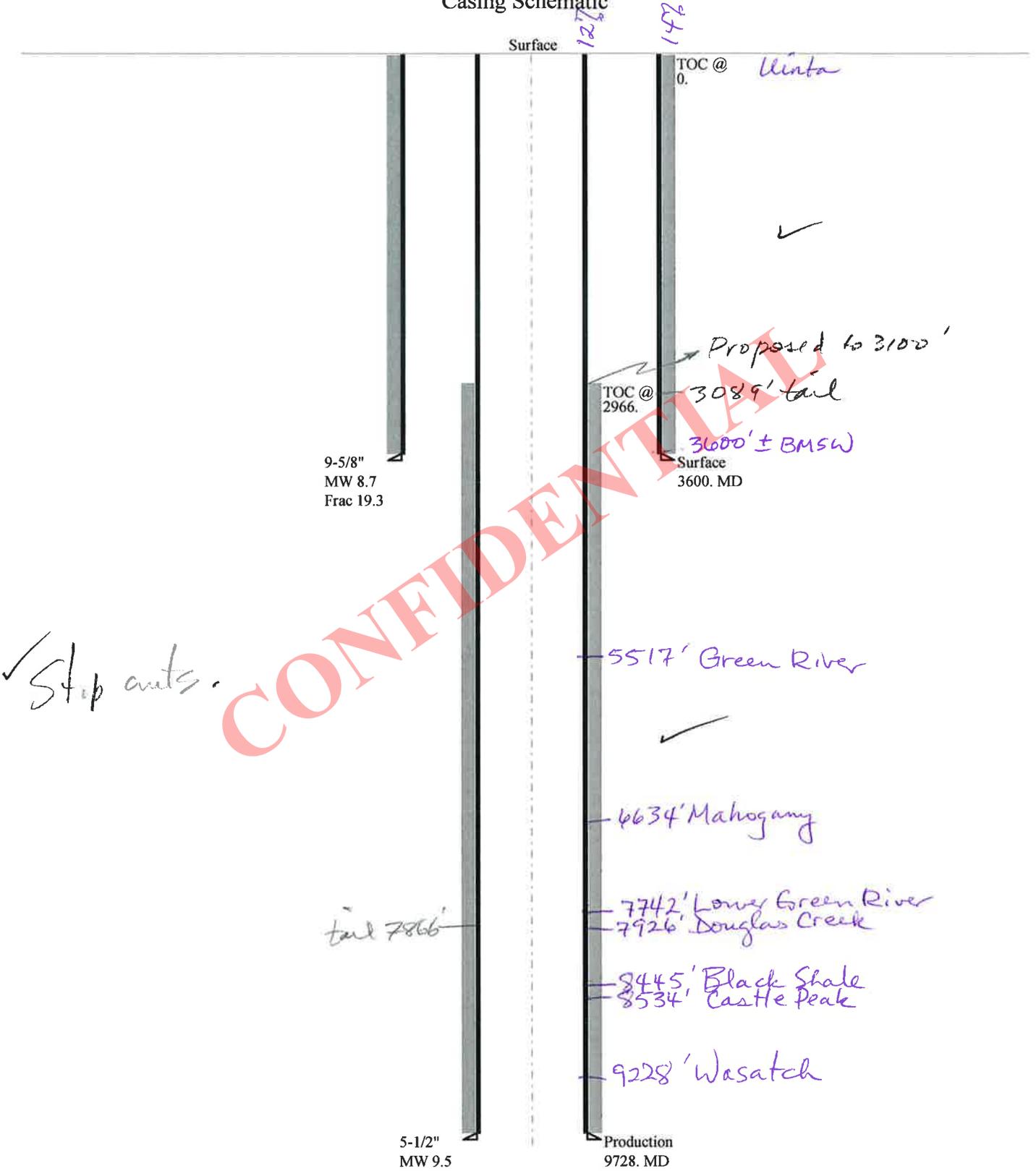
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1629	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1197	NO air/mist/FW spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	837	NO
			*Can Full Expected Pressure Be 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=	4806	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3639	YES 5M BOPE, ram type, 5M annular
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2666	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3458	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

# 43047540700000 FD 7-32-2-2

## Casing Schematic



Well name:	<b>43047540700000 FD 7-32-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Surface	43-047-54070
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: 3,137 ft

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 9,728 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 4,801 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	29439
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>43047540700000 FD 7-32-2-2</b>	
Operator:	<b>BILL BARRETT CORP</b>	Project ID:
String type:	Production	43-047-54070
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: 2,966 ft

**Burst**

Max anticipated surface pressure: 2,661 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 4,801 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: 8,327 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	9728	5.5	17.00	P-110	LT&C	9728	9728	4.767	64076
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	4801	7480	1.558	4801	10640	2.22	141.6	445	3.14 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 9728 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 7-32-2-2  
**API Number** 43047540700000      **APD No** 8820    **Field/Unit** WILDCAT  
**Location: 1/4,1/4 SWNE Sec 32 Tw 2.0S Rng 2.0E 2262 FNL 2525 FEL**  
**GPS Coord (UTM)** 602663 4458050      **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 well site is approximately 2.5 miles south and east 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. This proposed location sits on top of a small flat topped hill which rises slightly to the south but drops off to the west, north and east.

### Surface Use Plan

#### **Current Surface Use**

Wildlfe Habitat

**New Road  
Miles**

0.37

**Well Pad**

**Width 300 Length 400**

**Src Const Material**

Offsite

**Surface Formation**

UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

Rabbit brush, grasses, sage brush

Pronghorn habitat

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

Loamy sand

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diversion Required? N****Berm Required? Y**

permeable soil and slopes

**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  
Evaluator11/6/2013  
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
8820	43047540700000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	TRACY RICHENS	
<b>Well Name</b>	FD 7-32-2-2		<b>Unit</b>		
<b>Field</b>	WILDCAT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWNE 32 2S 2E U 2262 FNL (UTM) 602654E 4458066N		2525 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 3,600'. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of Section 32. The well is 60 feet in depth with listed uses as domestic, irrigation and stock watering. This well is located over 1.5 miles from the proposed location. The well probably produces 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 sloping terrain this well pad must be bermed to keep any leaked or spilled fluids contained to the pad. This 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	The reserve pit shall be fenced upon completion of drilling operations.

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/24/2013

API NO. ASSIGNED: 43047540700000

WELL NAME: FD 7-32-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SWNE 32 020S 020E

Permit Tech Review: 

SURFACE: 2262 FNL 2525 FEL

Engineering Review: 

BOTTOM: 2262 FNL 2525 FEL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.26677

LONGITUDE: -109.79270

UTM SURF EASTINGS: 602654.00

NORTHINGS: 4458066.00

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) - hmadonald  
 25 - Surface Casing - hmadonald  
 27 - Other - hmadonald



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 7-32-2-2

**API Well Number:** 43047540700000

**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		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: fee
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: FD 7-32-2-2
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047540700000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2262 FNL 2525 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 32 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"/> NOTICE OF INTENT 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"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="change to drill 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*

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 1/6/2014	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>	
		<b>7. UNIT or CA AGREEMENT NAME:</b>	
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> FD 7-32-2-2	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047540700000	
<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> 2262 FNL 2525 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 32 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 2/5/2014  <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 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.			
Drilling Contractor: Triple A Drilling LLC. Rig #: TA 4037 Rig Type: Soilmec SR/30 Spud Date: 2/5/14 Spud Time: 4:00 PM Commence Drilling approximate start date: 2/15/2014			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY February 06, 2014</b>			
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst	
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/6/2014	

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 7-32-2-2	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047540700000	
<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> 2262 FNL 2525 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 32 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: 2/28/2014	<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 February 2014 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 04, 2014</b>			
<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> 3/3/2014	

**FD 07-32-2-2 2/12/2014 06:00 - 2/13/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status	Total Depth (ftKB) 1,247.0	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			RIG UP - DRILL 12 1/4 SURFACE FROM 80' T/1260' - CIRC - T.O.O.H. - R/U & RUN 8 5/8 CSG - CIRC - CEMENT - R/D

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Pro Petro # 10  
Submitted By Jack Warr Phone Number 970-261-4665  
Well Name/Number FD 7-32-2-2  
Qtr/Qtr SW/NE Section 32 Township 2S Range 2E  
Lease Serial Number \_\_\_\_\_  
API Number 43-047-54070-0000

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

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

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

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

Date/Time 2-12-14 6:00 AM  PM

BOPE

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

**RECEIVED**  
**FEB 11 2014**  
DIV. OF OIL, GAS & MINING

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

Remarks Run & Cement @ 1200' Of 8 5/8", 24#, J-55, Stc surface Casing .

<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 7-32-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540700000
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: 2262 FNL 2525 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 32 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: 3/31/2014	<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 March 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY  
 April 08, 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> 4/2/2014	

**FD 07-32-2-2 3/1/2014 06:00 - 3/2/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Steerable drlg 3119' - 4532'. Wob 10-20k, rpm 40-60/88, spp 1650 psi, dp 450 psi, rop 123 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	12.00	06:00	2	DRILL ACTUAL	Steerable drlg 4532' - 5300'. Wob 10-20k, rpm 40-60/88, spp 1650 psi, dp 450 psi, rop 64 fph.

**FD 07-32-2-2 3/2/2014 06:00 - 3/3/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Steerable drlg 5300' - 5600'. Wob 10-25k, rpm 40-60/88, spp 1950 psi, dp 250 psi, rop 30 fph.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service.
16:30	1.50	18:00	8	REPAIR RIG	Rig Repair. Replace PTO & Boom pump.
18:00	0.50	18:30	7	LUBRICATE RIG	Rig Service.
18:30	11.50	06:00	2	DRILL ACTUAL	Steerable drlg 5600' - 5941'. Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 30 fph.

**FD 07-32-2-2 3/3/2014 06:00 - 3/4/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable drlg 5941' - 5981'. Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 23 fph.
08:00	0.50	08:30	7	LUBRICATE RIG	Rig Service.
08:30	5.50	14:00	2	DRILL ACTUAL	Steerable drlg 5981' - 6155'. Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 32 fph.
14:00	1.00	15:00	8	REPAIR RIG	X/O wash pipe packing.
15:00	14.50	05:30	2	DRILL ACTUAL	Steerable drlg 6155' - 6580. Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 29 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 07-32-2-2 3/4/2014 06:00 - 3/5/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	Steerable drlg 6580. - 6792' Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 28 fph.
13:30	2.00	15:30	5	COND MUD & CIRC	C&C f/trip, build & pump slug.
15:30	7.00	22:30	6	TRIPS	Toh.
22:30	2.00	00:30	20	DIRECTIONAL WORK	X/O bit, MWD.
00:30	0.50	01:00	7	LUBRICATE RIG	Rig Service.
01:00	5.00	06:00	6	TRIPS	Tih, bridge @ 2000'.

**FD 07-32-2-2 3/5/2014 06:00 - 3/6/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Finish tih. Pipe not displacing fluid to surface.
09:00	1.00	10:00	5	COND MUD & CIRC	C&C, pump lcm sweep, build volume.
10:00	1.50	11:30	2	DRILL ACTUAL	Steerable drlg 6792' - 6872' Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 53 fph.
11:30	0.50	12:00	7	LUBRICATE RIG	Rig Service.
12:00	17.50	05:30	2	DRILL ACTUAL	Steerable drlg 6872' - 8000' Wob 10-25k, rpm 30-60/88, spp 1950 psi, dp 100-250 psi, rop 64 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 07-32-2-2 3/6/2014 06:00 - 3/7/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Steerable drlg 8000' - 8771' Wob 10-25k, rpm 30-60/88, spp 2350 psi, dp 250 - 450 psi, rop 67 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	6.00	00:00	2	DRILL ACTUAL	Steerable drlg 8771' - 9056' Wob 10-25k, rpm 30-60/88, spp 2350 psi, dp 250 - 450 psi, rop 48 fph.
00:00	3.00	03:00	21	OPEN	Hole sloughed in - work tight hole.
03:00	1.00	04:00	5	COND MUD & CIRC	C&C, sweep hole.
04:00	2.00	06:00	2	DRILL ACTUAL	Steerable drlg 9056' - 9159' Wob 10-25k, rpm 30-60/88, spp 2350 psi, dp 250 - 450 psi, rop 52 fph.

**FD 07-32-2-2 3/7/2014 06:00 - 3/8/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	2	DRILL ACTUAL	Steerable drlg 9159' - 9228'. Wob 10-25k, rpm 30-60/88, spp 2350 psi, dp 250 - 450 psi, rop 20 fph.
09:30	1.00	10:30	5	COND MUD & CIRC	C&C mud, pump high-vis lcm sweep. Pump dry job.
10:30	4.00	14:30	6	TRIPS	ST to 6700'.
14:30	3.00	17:30	5	COND MUD & CIRC	C&C mud, sweep hole, raise mw to 9.7 ppg.
17:30	8.00	01:30	6	TRIPS	Toh. Pull 6 stds, pump dry job, finish toh.
01:30	2.00	03:30	20	DIRECTIONAL WORK	L/D dir tools, mm.
03:30	2.50	06:00	6	TRIPS	Tih open ended DP.

**FD 07-32-2-2 3/8/2014 06:00 - 3/9/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Tih open-ended DP. Bridge @ 2800'.
09:00	0.50	09:30	7	LUBRICATE RIG	Rig Service. Repair boom cylinder.
09:30	2.00	11:30	6	TRIPS	Finish Tih.
11:30	2.50	14:00	5	COND MUD & CIRC	C&C mud, circ gas out, spot viscous pill to 6000'.
14:00	2.00	16:00	6	TRIPS	Toh slow to 6500'.
16:00	7.50	23:30	11	WIRELINE LOGS	Run logs through DP. Run gamma, DDLT, CNT. Logger's depth - 9228'.
23:30	0.50	00:00	7	LUBRICATE RIG	Rig Service.
00:00	5.50	05:30	6	TRIPS	Toh.
05:30	0.50	06:00	20	DIRECTIONAL WORK	Pull wear bushing.

**FD 07-32-2-2 3/9/2014 06:00 - 3/10/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	12	RUN CASING & CEMENT	Run 5 1/2", 17#, P-180, LT&C csg as follows: Float shoe, 2 jts csg, float collar, 205 jts csg(207 total). MJs @ 8403', 7736', cement baskets @ 5219', 3202', 2502'. BS centralizers on bottom jt, top of jt # 2, every other jt to 1233' (89 cent).
17:00	4.50	21:30	5	COND MUD & CIRC	P/U jt # 208, install rot rubber, tag bottom @ 9228', C&C mud f/cement & reciprocate pipe. Pumping 30 strokes/min for 90 min to keep circ, pumped lcm sweep, stopped losses, gradually increased spm to 90, seeping 10 bbls/hr.
21:30	4.00	01:30	12	RUN CASING & CEMENT	HSM. Cement prod csg as follows: Test lines to5000 psi. Pump 40 bbls tuned spacer @ 10.5 ppg, Mix and pump 545 sx (227 bbls) tuned lite lead @ 11 ppg, 2.34 yld, 10.1 gps h2o. Tail in with 650 sx (168 bbls) Expandacem @ 13.5 ppg, 1.45 yld, 6.91 gps h2o. Wash up to pit, drop plug, displace with 211.7 bbls Cla-web/Aldicide @ 8.34 ppg. Max pressure 1980 psi, bump plug to 2600 psi. Bled back 2 bbls, floats held. Lost returns @ start of tail, regained, lost again 158 bbls into displacement. No cement to surface. R/D HES.
01:30	1.00	02:30	21	OPEN	Set and verify packoff.
02:30	3.50	06:00	14	NIPPLE UP B.O.P	NDBOP, clean pits. Rig released @ 06:00.

**FD 07-32-2-2 3/11/2014 06:00 - 3/12/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	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	BATTERY UNDER CONSTRUCTION. CLEAN CELLAR. HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN CSG HANGER. NU 7" 5K TBG HEAD. PRES TEST. GOOD. NU 7" NIGHT CAP

**FD 07-32-2-2 3/13/2014 06:00 - 3/14/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	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	LOGG	Logging	HOLD SAFETY MEETING. RU HES W/L. RIH GR/JB AND TAG FILL AT 9086', 79' OF FILL. DRILLING REPORT SHOWS F/C AT 9165'. RIH RMT/RBL LOG UNDER PRESSURE. LOG SHOWS GOOD CMT F/ 9086'-5450'. GOOD CMT WITH RATTY SPOTS F/ 5450'-3700'. FAIR CMT WITH RATTY SPOTS F/ 3700'-1440'. EST TOC 1440'. RD HES W/L.

**FD 07-32-2-2 3/20/2014 06:00 - 3/21/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,228.0	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. SET FB EQUIP. CHECK PRESSURE. ND 7" NIGHT CAP. NU 5-1/8" 10K FRAC MANDREL, FRAC VALVES, AND FRAC HEAD. PLUMB IN FB EQUIP. PRES TEST CSG AND VALVES TO 6200 PSI. GOOD. PRES TEST FB EQUIP TO 4500 PSI. GOOD. WELL SHUT IN AND SECURE. SET DEAD MEN. FRAC LINE FULL.

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>8. WELL NAME and NUMBER:</b> FD 7-32-2-2
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047540700000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2262 FNL 2525 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 32 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		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/21/2014  <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.		
<b>THIS WELL HAD FIRST PRODUCTION ON 4/21/2014 AND FIRST GAS SALES ON 4/22/2014</b>		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY April 24, 2014</b>		
<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> 4/22/2014	

<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.	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 7-32-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047540700000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2262 FNL 2525 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNE Section: 32 Township: 02.0S Range: 02.0E Meridian: U	COUNTY: UINTAH
	STATE: UTAH

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

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

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

Attached is the April 2014 Drilling Activity for this well.

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

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

**FD 07-32-2-2 4/19/2014 06:00 - 4/20/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,228.0	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	1.50	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 0 PSI. RIH AND CORRELATE TO SJ AT 8373'-8397". RUN DOWN AND PERF UTELAND BUTTE FORM 8756'-9052' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:30	5.00	14:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
14:30	15.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE.

**FD 07-32-2-2 4/20/2014 06:00 - 4/21/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,228.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00		06:00	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA.
06:00	1.25	07:15	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 441 PSI AT 06:00 BREAK DOWN 3302 PSI AT 10.2 BPM. PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 2395 PSI. FLUSH W/ 8549 GAL. 30.2 BPM AT 2940 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.1 BPM AT 4077 PSI. ISDP 2425. FG .71. PERFS OPEN 31/45  ISIP 2695, FG .74, MR 70.3 BPM, AR 70.0 BPM, MP 4450 PSI, AP 3759 PSI 100 MESH 8100 lbs. .75 ppg 20/40 WHITE 150,400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1043 BBL, 20# HYBOR G (16) 1502 BBL, BTR 2650 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.
07:15	1.25	08:30	PFRT	Perforating	PERF STG #2- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2250 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8373'-8397'. RUN DOWN AND SET 5-1/2" CBP AT 8744' WITH 2150 PSI. PULL UP AND PERF BLACK SHALE AND CASTLE PEAK 8454'-8724' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2050 PSI. TURN WELL OVER TO HES.
08:30	1.25	09:45	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 7250 PSI. OPEN WELL W/ 2058 PSI AT 08:36 BREAK DOWN 2599 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 2444 PSI. FLUSH W/ 8254 GAL. 30.0 BPM AT 2946 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 3970 PSI. ISDP 2640. FG .75. PERFS OPEN 37/45  ISIP 3050, FG .79, MR 70.5 BPM, AR 70.0 BPM, MP 4193 PSI, AP 3754 PSI 100 MESH 8200 lbs. .75 ppg 20/40 WHITE 150,400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1031 BBL, 20# HYBOR G (16) 1509 BBL, BTR 2633 BBLs  SHUT IN AND TURN OVER TO CASED HOLE.
09:45	1.17	10:55	PFRT	Perforating	PERF STG #3- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2550 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7707'-7730'. RUN DOWN AND SET 5-1/2" CBP AT 8436' WITH 2450 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8110'-8416' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1950 PSI. TURN WELL OVER TO HES.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:55	1.25	12:10	FRAC	Frac. Job	FRAC STG 3 PRESSURE TEST LINES TO 7300 PSI. OPEN WELL W/ 2032 PSI AT 11:05 BREAK DOWN 2580 PSI AT 10.0 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 2396 PSI. FLUSH W/ 7918 GAL. 30.0 BPM AT 2857 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.5 BPM AT 3958 PSI. ISDP 2580. FG .75. PERFS OPEN 36/45  ISIP 2880, FG .79, MR 71.2 BPM, AR 71.0 BPM, MP 4254 PSI, AP 3804 PSI 100 MESH 8400 lbs. .75 ppg 20/40 WHITE 150.400 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 965 BBL, 20# HYBOR G (16) 1563 BBL, BTR 2621 BBLS  SHUT IN AND TURN OVER TO CASED HOLE.
12:10	1.08	13:15	PFRT	Perforating	PERF STG #4- PU EXELIS 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2500 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7707'-7730'. RUN DOWN AND SET 5-1/2" CBP AT 8072' WITH 2350 PSI. PULL UP AND PERF TGR3 AND DOUGLAS CREEK FORM 7759'-8046' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1050 PSI. TURN WELL OVER TO HES.
13:15	1.34	14:35	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7350 PSI. OPEN WELL W/ 170 PSI AT 13:22 BREAK DOWN 1550 PSI AT 5.4 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.0 BPM AT 1321 PSI. FLUSH W/ 7576 GAL. 30.1 BPM AT 2183 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 68.1 BPM AT 5487 PSI. ISDP 2395. FG .74. PERFS OPEN 20/45  ISIP 1750, FG .66, MR 70.3 BPM, AR 69.5 BPM, MP 5751 PSI, AP 3340 PSI 100 MESH 8600 lbs. .75 ppg 20/40 WHITE 150,600 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 864 BBL, 20# HYBOR G (16) 1647 BBL, BTR 2592 BBLS  SHUT IN, REMOVE CANDY CANES AND TURN OVER TO CASED HOLE.
14:35	1.00	15:35	WLWK	Wireline	KILL PLUG- PU 5-1/2" EXELIS PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 1500 PSI. RIH AND CORRELATE TO CSG JTS (NO SHORT JT NOW). SET KILL PLUG AT 7658' WITH 1450 PSI. BLEED OFF AS POOH.
15:35	2.50	18:05	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE. WELL SECURE.
18:05	11.91	06:00	LOCL	Lock Wellhead & Secure	STACK WTR. MOVE OFF FRAC LINE.

**FD 07-32-2-2 4/21/2014 06:00 - 4/22/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,228.0	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 @ 7658'. CFP- 425 PSI ON 12/64 CHOKE.  SWIVEL IN HOLE, TAG CBP @ 8072', NO SAND. D/O PLUG. CFP- 1250 ON 25/64 CHOKE.  SWIVEL IN HOLE, TAG SAND @ 8383'. C/O SAND & D/O CBP @ 8436'. CFP- 1500 ON 25/64 CHOKE. R/D SWIVEL. TURN WELL OVER TO FLOWBACK. SDFN.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE. CREW TRAVEL.


**FD 07-32-2-2 4/22/2014 06:00 - 4/23/2014 06:00**

API 43-047-54070	State/Province Utah	County Duchesne	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,228.0	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	4.00	11:00	DOPG	Drill Out Plugs	CFP- 500 ON 18/64 CHOKE. RIH F/ 8497' W/ 4-3/4 BIT, TAG SAND @ 8732'. R/U SWIVEL. BREAK CIRC. C/O SAND & D/O CBP @ 8744'. FCP- 1000 ON 18/64 CHOKE.  SWIVEL IN HOLE. TAG SAND @ 9029'. C/O SAND TO F/C @ 9167'. D/O F/C. C/O CMT TO 9197' PBTD. CIRC WELL CLEAN. R/D SWIVEL.
11:00	1.50	12:30	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 7647' & LAND TBG. 240 JTS TOTAL IN HOLE.
12:30	1.50	14:00	BOPI	Install BOP's	R/D FLOOR. N/D BOPE. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 4500 PSI. R/U TBG TO SALES LINE. TURN OVER TO FLOWBACK. SICP- 800, FTP -825 ON 17/64 CHOKE. SDFN.
14:00	1.00	15:00	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. SDFN.
15:00	15.00	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 7-32-2-2**

9. API NUMBER:  
**4304754070**

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

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**SWNE 32 2S 2E U**

12. COUNTY **Utah** 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 **FD**

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: **2262 FNL 2525 FEL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **2263 FNL 2523 FEL**  
AT TOTAL DEPTH: **2300 FNL 2515 FEL**

14. DATE SPUDDED: **2/5/2014** 15. DATE T.D. REACHED: **3/7/2014** 16. DATE COMPLETED: **4/21/2014** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5138 GL**

18. TOTAL DEPTH: MD **9,228**  
TVD **9,227**

19. PLUG BACK T.D.: MD **9,167**  
TVD **9,166**

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 H-40	65#	0	80	80			0	
12 1/4	8 5/8 J-55	24#	0	1,247	1,247	Lead 150	102	0	
						Tail 450	96		
7 7/8	5 1/2 I-80	17#	0	9,228	9,212	Lead 545	227	3692	
						Tail 650	168		

**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	6,175							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	7,759	9,052		
(B)				
(C)				
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,759 9,052	.38	180	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input checked="" 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
7759-9052	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: 4/21/2014		TEST DATE: 4/23/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 205	GAS - MCF: 43	WATER - BBL: 587	PROD. METHOD: Flowing
CHOKE SIZE: 28/64	TBG. PRESS. 200	CSG. PRESS. 450	API GRAVITY 31.00	BTU - GAS 1	GAS/OIL RATIO 210	24 HR PRODUCTION RATES: →	OIL - BBL: 205	GAS - MCF: 43	WATER - BBL: 587	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	5,420
				Mahogany	6,645
				TGR3	7,753
				Douglas Creek	7,941
				Black Shale Facies	8,448
				Castle Peak	8,534
				Uteland Butte	8,738
				Wasatch	9,228
				TD	9,228

35. ADDITIONAL REMARKS (Include plugging procedure)

TOC calculated by CBL. Conductor cemented with grout. First gas sales 4/22/2014; 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 5/15/2014

This report must be submitted within 30 days of

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

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

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

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

**7-32-2-2 FD Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><i>Stage</i></b>	<b><i>bbls Slurry</i></b>	<b><i>lbs Common White 100 Mesh Sand</i></b>	<b><i>lbs 20/40 Premium White</i></b>	<b><i>gal 15% HCl Acid</i></b>
1	2650	8100	150400	3904
2	2633	8200	150400	3400
3	2621	8400	150320	3422
4	2592	8580	150620	3404

\*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 7-32-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Site:</b>	SECTION 32 T2S, R2E	<b>MD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Well:</b>	FD 7-32-2-2	<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 32 T2S, R2E		
<b>Site Position:</b>		<b>Northing:</b>	11,159,641.42 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,116,585.06 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 16' 14.510 N
		<b>Longitude:</b>	109° 47' 42.260 W
		<b>Grid Convergence:</b>	1.04 °

<b>Well</b>	FD 7-32-2-2, SHL LAT: 40.266614 LONG: -109.792597					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,158,165.39 usft	<b>Latitude:</b>	40° 15' 59.810 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	2,117,303.41 usft	<b>Longitude:</b>	109° 47' 33.350 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	5,149.0 usft	<b>Ground Level:</b>	5,134.0 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	2/27/2014	10.89	65.96	52,163

<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	164.75	

<b>Survey Program</b>	<b>Date</b>	3/11/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
1,245.0	9,228.0	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 7-32-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Site:</b>	SECTION 32 T2S, R2E	<b>MD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Well:</b>	FD 7-32-2-2	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

## Survey

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
1,245.0	0.22	130.80	1,245.0	2.0	-1.6	1.8	0.02	0.02	0.00
1,330.0	0.31	166.01	1,330.0	2.3	-1.9	2.0	0.21	0.11	41.42
1,416.0	0.40	181.08	1,416.0	2.9	-2.4	2.0	0.15	0.10	17.52
1,501.0	0.40	21.77	1,501.0	2.9	-2.4	2.1	0.93	0.00	-187.42
1,587.0	0.31	17.50	1,587.0	2.5	-1.9	2.3	0.11	-0.10	-4.97
1,677.0	0.31	25.08	1,677.0	2.1	-1.5	2.5	0.05	0.00	8.42
1,766.0	0.80	343.29	1,766.0	1.3	-0.7	2.4	0.68	0.55	-46.96
1,852.0	0.71	334.70	1,852.0	0.2	0.4	2.0	0.17	-0.10	-9.99
1,939.0	0.40	320.11	1,939.0	-0.6	1.1	1.6	0.39	-0.36	-16.77
2,025.0	0.40	308.30	2,025.0	-1.2	1.5	1.2	0.10	0.00	-13.73
2,110.0	0.80	332.80	2,110.0	-2.0	2.2	0.7	0.55	0.47	28.82
2,196.0	0.40	296.09	2,196.0	-2.8	2.9	0.1	0.62	-0.47	-42.69
2,284.0	1.02	94.79	2,284.0	-2.7	3.0	0.6	1.59	0.70	180.34
2,370.0	1.10	110.48	2,369.9	-2.0	2.6	2.2	0.35	0.09	18.24
2,458.0	0.49	78.71	2,457.9	-1.4	2.4	3.3	0.83	-0.69	-36.10
2,545.0	0.88	23.41	2,544.9	-1.9	3.1	4.0	0.83	0.45	-63.56
2,631.0	0.71	23.41	2,630.9	-2.9	4.2	4.4	0.20	-0.20	0.00
2,719.0	1.19	348.71	2,718.9	-4.2	5.6	4.5	0.83	0.55	-39.43
2,806.0	1.02	2.68	2,805.9	-5.8	7.2	4.3	0.36	-0.20	16.06
2,893.0	1.10	14.81	2,892.9	-7.3	8.8	4.6	0.27	0.09	13.94
2,979.0	1.41	329.67	2,978.9	-9.0	10.5	4.3	1.17	0.36	-52.49
3,067.0	1.19	315.09	3,066.8	-10.9	12.1	3.1	0.45	-0.25	-16.57
3,154.0	1.02	309.71	3,153.8	-12.3	13.2	1.8	0.23	-0.20	-6.18
3,242.0	0.80	298.39	3,241.8	-13.4	14.0	0.7	0.32	-0.25	-12.86
3,327.0	0.49	300.81	3,326.8	-14.0	14.5	-0.2	0.37	-0.36	2.85
3,412.0	0.49	292.00	3,411.8	-14.5	14.8	-0.8	0.09	0.00	-10.36



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 7-32-2-2
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Site:</b>	SECTION 32 T2S, R2E	<b>MD Reference:</b>	WELL @ 5149.0usft (CS 330)
<b>Well:</b>	FD 7-32-2-2	<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)
3,497.0	0.40	284.28	3,496.8	-14.9	15.0	-1.4	0.13	-0.11	-9.08
3,583.0	0.40	254.27	3,582.8	-15.0	15.0	-2.0	0.24	0.00	-34.90
3,668.0	0.71	213.91	3,667.8	-14.7	14.5	-2.6	0.57	0.36	-47.48
3,753.0	0.80	214.00	3,752.8	-13.9	13.6	-3.2	0.11	0.11	0.11
3,839.0	0.71	329.10	3,838.8	-14.1	13.5	-3.8	1.48	-0.10	133.84
3,924.0	0.49	307.29	3,923.8	-14.9	14.2	-4.4	0.37	-0.26	-25.66
4,009.0	0.40	306.80	4,008.8	-15.4	14.6	-4.9	0.11	-0.11	-0.58
4,092.0	0.31	237.97	4,091.8	-15.5	14.7	-5.3	0.49	-0.11	-82.93
4,179.0	0.49	202.01	4,178.8	-15.2	14.2	-5.7	0.35	0.21	-41.33
4,265.0	0.49	195.49	4,264.8	-14.6	13.5	-5.9	0.06	0.00	-7.58
4,350.0	0.62	183.68	4,349.8	-13.8	12.7	-6.0	0.20	0.15	-13.89
4,436.0	0.80	177.91	4,435.8	-12.8	11.6	-6.0	0.22	0.21	-6.71
4,521.0	1.02	176.01	4,520.7	-11.5	10.3	-6.0	0.26	0.26	-2.24
4,606.0	0.49	134.28	4,605.7	-10.4	9.3	-5.6	0.86	-0.62	-49.09
4,692.0	0.62	71.00	4,691.7	-10.1	9.2	-4.9	0.69	0.15	-73.58
4,780.0	1.02	23.58	4,779.7	-10.8	10.0	-4.2	0.86	0.45	-53.89
4,865.0	0.71	26.80	4,864.7	-11.8	11.2	-3.6	0.37	-0.36	3.79
4,951.0	1.02	16.18	4,950.7	-12.8	12.4	-3.2	0.40	0.36	-12.35
5,035.0	0.31	46.67	5,034.7	-13.6	13.3	-2.8	0.92	-0.85	36.30
5,119.0	0.71	350.87	5,118.7	-14.2	14.0	-2.7	0.71	0.48	-66.43
5,205.0	0.31	285.78	5,204.7	-14.8	14.5	-3.0	0.75	-0.47	-75.69
5,290.0	0.71	2.50	5,289.7	-15.5	15.1	-3.2	0.83	0.47	90.26
5,375.0	0.31	16.80	5,374.7	-16.1	15.9	-3.2	0.49	-0.47	16.82
5,461.0	0.22	190.91	5,460.7	-16.2	15.9	-3.1	0.62	-0.10	202.45
5,504.0	0.40	195.09	5,503.7	-16.0	15.7	-3.2	0.42	0.42	9.72
5,589.0	0.49	57.91	5,588.7	-15.8	15.6	-2.9	0.98	0.11	-161.39
5,674.0	0.62	51.87	5,673.7	-16.1	16.1	-2.3	0.17	0.15	-7.11



## Payzone Directional

End of Well Report



**Company:** Bill Barrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 32 T2S, R2E  
**Well:** FD 7-32-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well FD 7-32-2-2  
**TVD Reference:** WELL @ 5149.0usft (CS 330)  
**MD Reference:** WELL @ 5149.0usft (CS 330)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** 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)
5,761.0	0.71	47.29	5,760.7	-16.6	16.8	-1.5	0.12	0.10	-5.26
5,846.0	0.62	66.37	5,845.7	-16.9	17.3	-0.7	0.28	-0.11	22.45
5,931.0	0.09	231.09	5,930.7	-16.9	17.4	-0.3	0.83	-0.62	193.79
6,017.0	0.49	203.60	6,016.7	-16.6	17.1	-0.5	0.48	0.47	-31.97
6,102.0	1.90	212.19	6,101.7	-15.4	15.5	-1.4	1.67	1.66	10.11
6,188.0	1.81	196.19	6,187.6	-13.2	13.0	-2.6	0.61	-0.10	-18.60
6,272.0	0.71	203.29	6,271.6	-11.7	11.3	-3.1	1.32	-1.31	8.45
6,357.0	0.22	167.20	6,356.6	-11.1	10.6	-3.3	0.64	-0.58	-42.46
6,442.0	0.22	191.39	6,441.6	-10.8	10.3	-3.3	0.11	0.00	28.46
6,528.0	0.22	20.19	6,527.6	-10.8	10.3	-3.3	0.51	0.00	-199.07
6,656.0	0.71	157.81	6,655.6	-10.2	9.8	-2.9	0.69	0.38	107.52
6,699.0	0.49	140.67	6,698.6	-9.8	9.4	-2.7	0.65	-0.51	-39.86
6,742.0	0.49	67.38	6,741.6	-9.6	9.3	-2.4	1.36	0.00	-170.44
6,828.0	0.88	75.67	6,827.6	-9.7	9.6	-1.4	0.47	0.45	9.64
6,913.0	0.62	109.29	6,912.6	-9.4	9.6	-0.3	0.59	-0.31	39.55
6,998.0	0.49	135.07	6,997.6	-8.8	9.2	0.3	0.33	-0.15	30.33
7,083.0	0.62	161.29	7,082.6	-8.0	8.5	0.8	0.33	0.15	30.85
7,168.0	0.71	161.38	7,167.5	-7.1	7.6	1.1	0.11	0.11	0.11
7,253.0	0.71	170.90	7,252.5	-6.0	6.6	1.3	0.14	0.00	11.20
7,338.0	0.80	171.60	7,337.5	-4.9	5.5	1.5	0.11	0.11	0.82
7,424.0	0.62	169.09	7,423.5	-3.8	4.4	1.7	0.21	-0.21	-2.92
7,509.0	0.71	192.89	7,508.5	-2.9	3.5	1.6	0.34	0.11	28.00
7,597.0	0.71	170.28	7,596.5	-1.9	2.4	1.6	0.32	0.00	-25.69
7,684.0	1.04	179.58	7,683.5	-0.6	1.1	1.7	0.41	0.38	10.69
7,772.0	1.02	174.20	7,771.5	0.9	-0.5	1.8	0.11	-0.02	-6.11
7,858.0	1.10	182.27	7,857.5	2.5	-2.1	1.8	0.20	0.09	9.38
7,944.0	1.81	178.17	7,943.4	4.6	-4.3	1.8	0.83	0.83	-4.77



## Payzone Directional

End of Well Report



**Company:** Bill Barrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 32 T2S, R2E  
**Well:** FD 7-32-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:** Well FD 7-32-2-2  
**TVD Reference:** WELL @ 5149.0usft (CS 330)  
**MD Reference:** WELL @ 5149.0usft (CS 330)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

## Survey

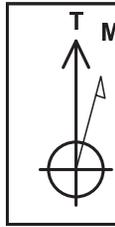
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
8,029.0	1.68	185.18	8,028.4	7.1	-6.8	1.8	0.29	-0.15	8.25
8,114.0	1.19	182.18	8,113.4	9.1	-9.0	1.6	0.58	-0.58	-3.53
8,200.0	1.41	187.07	8,199.4	10.9	-10.9	1.5	0.29	0.26	5.69
8,285.0	1.19	179.18	8,284.3	12.7	-12.8	1.3	0.33	-0.26	-9.28
8,371.0	1.28	172.79	8,370.3	14.6	-14.7	1.5	0.19	0.10	-7.43
8,456.0	1.19	166.80	8,455.3	16.4	-16.5	1.8	0.19	-0.11	-7.05
8,544.0	1.28	151.07	8,543.3	18.2	-18.2	2.5	0.40	0.10	-17.87
8,629.0	1.68	147.28	8,628.2	20.4	-20.1	3.6	0.48	0.47	-4.46
8,715.0	1.59	152.48	8,714.2	22.7	-22.2	4.8	0.20	-0.10	6.05
8,803.0	1.59	157.37	8,802.2	25.1	-24.4	5.9	0.15	0.00	5.56
8,888.0	1.59	159.09	8,887.1	27.5	-26.6	6.8	0.06	0.00	2.02
8,974.0	1.90	154.59	8,973.1	30.1	-29.0	7.8	0.39	0.36	-5.23
9,058.0	1.99	162.88	9,057.1	32.9	-31.7	8.8	0.35	0.11	9.87
9,146.0	1.90	166.80	9,145.0	35.9	-34.6	9.6	0.18	-0.10	4.45
9,172.0	2.12	168.30	9,171.0	36.8	-35.5	9.8	0.87	0.85	5.77
9,228.0	2.12	168.30	9,227.0	38.9	-37.5	10.2	0.00	0.00	0.00

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

Sundry Number: 51315 API Well Number: 43047540700000

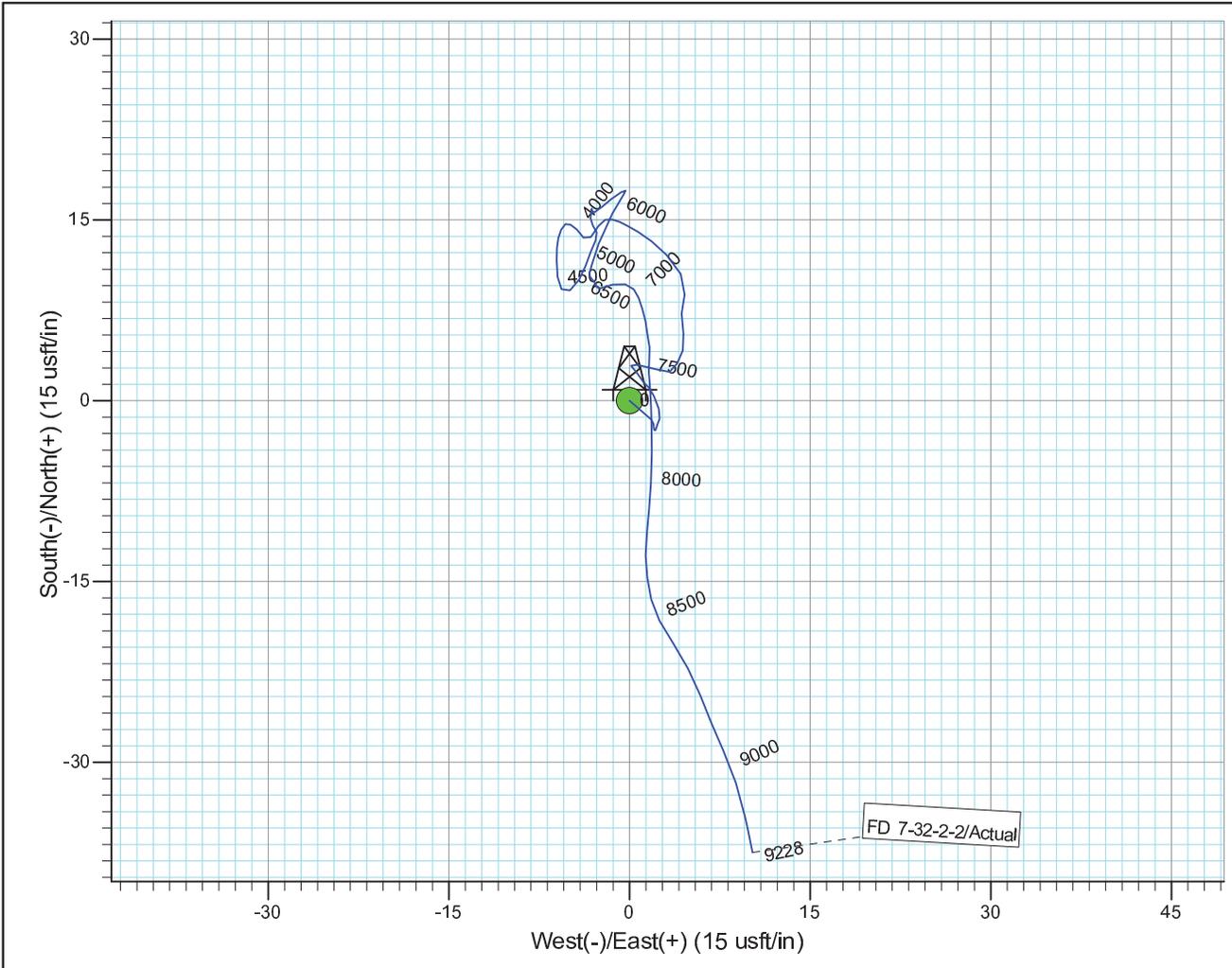
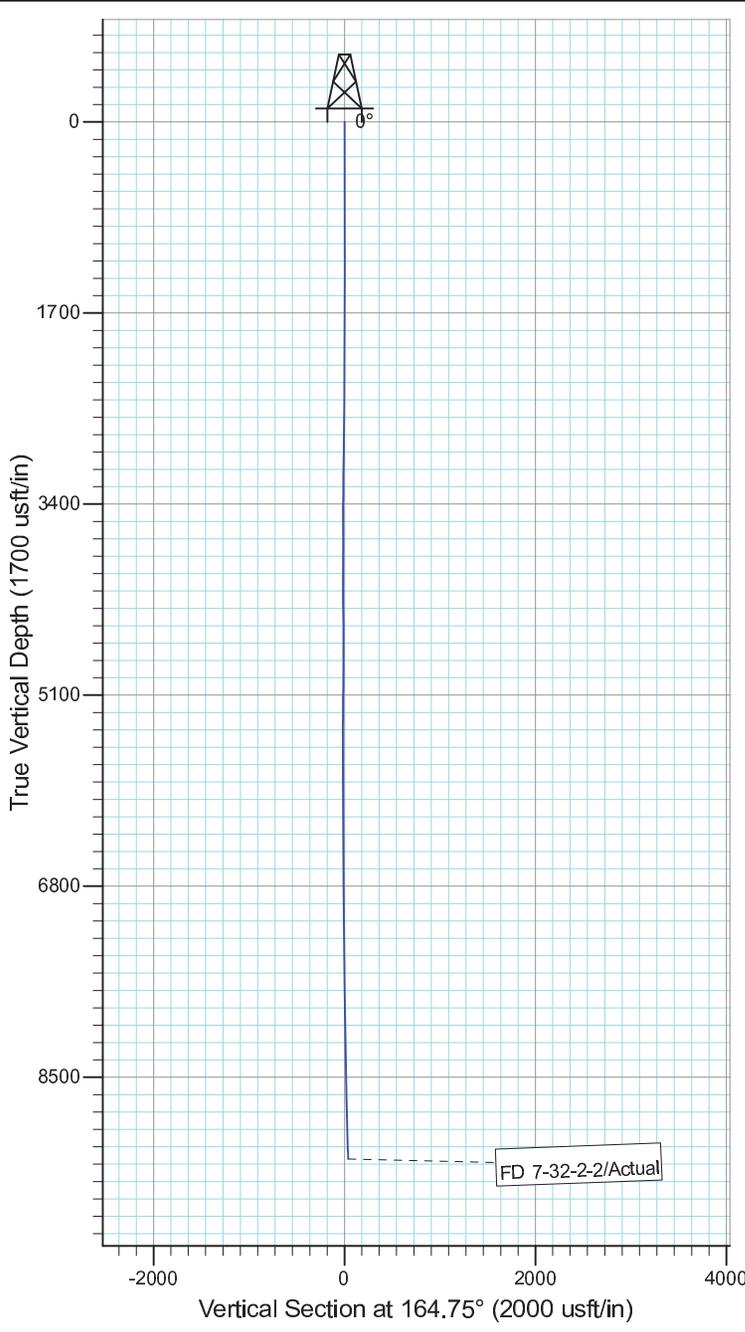


Project: Fort Duchesne  
Site: SECTION 32 T2S, R2E  
Well: FD 7-32-2-2  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 10.89°

Magnetic Field  
Strength: 52163.2snT  
Dip Angle: 65.96°  
Date: 2/27/2014  
Model: IGRF2010



Design: Actual (FD 7-32-2-2/Wellbore #1)

Created By: *Matthew Linton* Date: 11:18, March 11 2014

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