

**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 Federal 6-22-6-19					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8164					
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL BHilgers@billbarrettcorp.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU85589			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			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		1770 FNL 942 FWL		SEnw	22	6.0 S		19.0 E	S		
Top of Uppermost Producing Zone		1770 FNL 942 FWL		SEnw	22	6.0 S		19.0 E	S		
At Total Depth		1770 FNL 942 FWL		SEnw	22	6.0 S		19.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 250			23. NUMBER OF ACRES IN DRILLING UNIT 1251					
27. ELEVATION - GROUND LEVEL 5118			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4374			26. PROPOSED DEPTH MD: 12263 TVD: 12263					
28. BOND NUMBER WYB000040			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-11787								
<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 - 2000	36.0	J-55 ST&C	9.4	Halliburton Light , Type Unknown		280	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
Prod	7.875	5.5	0 - 12263	17.0	P-110 LT&C	9.5	Unknown		740	2.31	11.0
							Unknown		790	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 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 04/17/2013			EMAIL briley@billbarrettcorp.com					
API NUMBER ASSIGNED 43047537180000			APPROVAL			 Permit Manager					

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

***FD Federal 6-22-6-19***

LOT 8, 1770' FNL & 942' FWL, Sec. 22, T6S-R19E, SLB&M, Uintah County, UT

**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</u></b>
Uinta	1788'
Green River	4933'
Mahogany	6513'
TGR3	7773'
Douglas Creek	7958'
Black Shale	8513'
Castle Peak	8593'
Wasatch	9263'
TD	12263'

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

Base of Moderately Saline Water: 4643'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2000'	No pressure control required (may pre-set 9-5/8" will smaller rig)
2000' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><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	2000'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

NOTE: May pre-set 9-5/8" surface casing with spudder rig. See Appendix A below.

**5. Cementing Program**

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 280 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

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 Drilling Program  
 FD Federal #6-22-6-19  
 Uintah County, Utah

	Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,500'
5 1/2" Production Casing	Lead: 740 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,500' Tail: 790 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 @ 8013'

#### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss</u> <u>(API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
80' – 2000'	9.2 – 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
2000' – TD	9.4 – 9.5	42-52	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.
<b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b>	

#### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 6058 psi\* and maximum anticipated surface pressure equals approximately 3360 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

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

#### 9. Auxiliary Equipment

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)

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Drilling Program  
FD Federal #6-22-6-19  
Uintah County, Utah

- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

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

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: March 2014  
Spud: March 2014  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

If we pre-set the 9-5/8" casing on this well with a spudder rig, the following equipment shall be in place and operational during air/gas drilling:

- Blooie line discharge will be a minimum of 45' from well bore and securely anchored
- Mud circulating equipment and a minimum of 200 bbls of water will be on location (Volume sufficient to maintain the capacity of the hole and circulating tanks or pits).
- No igniter will be on blooie line while drilling the surface hole
- The spudder/air rig air compressor will be located on the rig

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# Bill Barrett Corporation

## FORT DUSHESNE CEMENT VOLUMES

**Well Name:** FD Federal 6-22-6-19

### Surface Hole Data:

Total Depth:	2,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	822.1	ft <sup>3</sup>
Lead Fill:	1,500'	
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:	280
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,500'	

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

Total Depth:	12,263'
Top of Cement:	1,500'
Top of Tail:	8,013'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1692.6	ft <sup>3</sup>
Lead Fill:	6,513'	
Tail Volume:	1104.6	ft <sup>3</sup>
Tail Fill:	4,250'	

### 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:	740
# SK's Tail:	790

<b>FD Federal 6-22-6-19 Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1500' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,500'
	Volume: 146.41 bbl
	<b>Proposed Sacks: 280 sks</b>
<b>Tail Cement - (TD - 1500')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8013' - 1500')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 6,513'
	Volume: 301.44 bbl
	<b>Proposed Sacks: 740 sks</b>
<b>Tail Cement - (12263' - 8013')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 8,013'
	Calculated Fill: 4,250'
	Volume: 196.72 bbl
	<b>Proposed Sacks: 790 sks</b>

**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

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

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

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

**C. Testing Procedure:**

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

**D. Choke Manifold Equipment:**

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

**E. Accumulator:**

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

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

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

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

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

**F. Miscellaneous Information:**

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

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

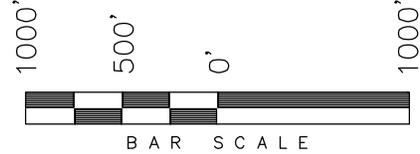
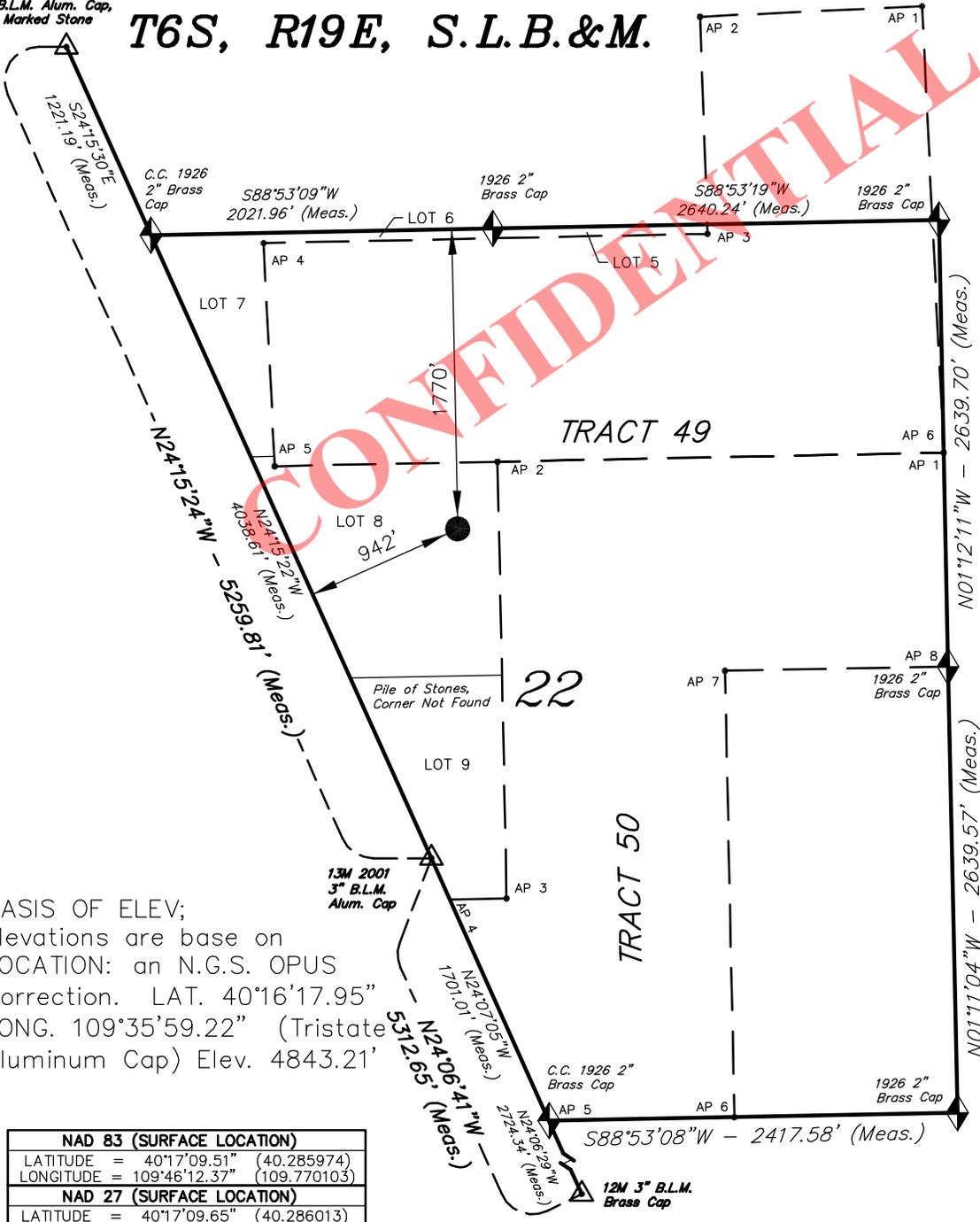
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14M 2001  
3" B.L.M. Alum. Cap,  
Set Marked Stone

**T6S, R19E, S.L.B.&M.**

**BILL BARRETT CORPORATION**

WELL LOCATION, FD Federal 6-22-6-19  
LOCATED AS SHOWN IN LOT 8 OF  
SECTION 22, T6S, R19E, S.L.B.&M.  
UINTAH COUNTY, UTAH.



- NOTES:**
1. Well footages are measured at right angles to the Section Lines.
  2. Bearings are based on Global Positioning Satellite observations.

**WELL LOCATION:**  
FD Federal 6-22-6-19  
ELEV. UNGRADED GROUND = 5117.6'

BASIS OF ELEV;  
Elevations are base on  
LOCATION: an N.G.S. OPUS  
Correction. LAT. 40°16'17.95"  
LONG. 109°35'59.22" (Tristate  
Aluminum Cap) Elev. 4843.21'

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.

REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
04-02-12  
STACY W. STEWART  
STATE OF UTAH

NAD 83 (SURFACE LOCATION)	
LATITUDE	= 40°17'09.51" (40.285974)
LONGITUDE	= 109°46'12.37" (109.770103)
NAD 27 (SURFACE LOCATION)	
LATITUDE	= 40°17'09.65" (40.286013)
LONGITUDE	= 109°46'09.85" (109.769404)

◆ = SECTION CORNERS LOCATED

<b>TRI STATE LAND SURVEYING &amp; CONSULTING</b>	
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078 (435) 781-2501	
DATE SURVEYED: 01-06-12	SURVEYED BY: C.D.S.
DATE DRAWN: 01-09-12	DRAWN BY: L.C.S.
REVISED: L.C.S. 04-02-12	SCALE: 1" = 1000'

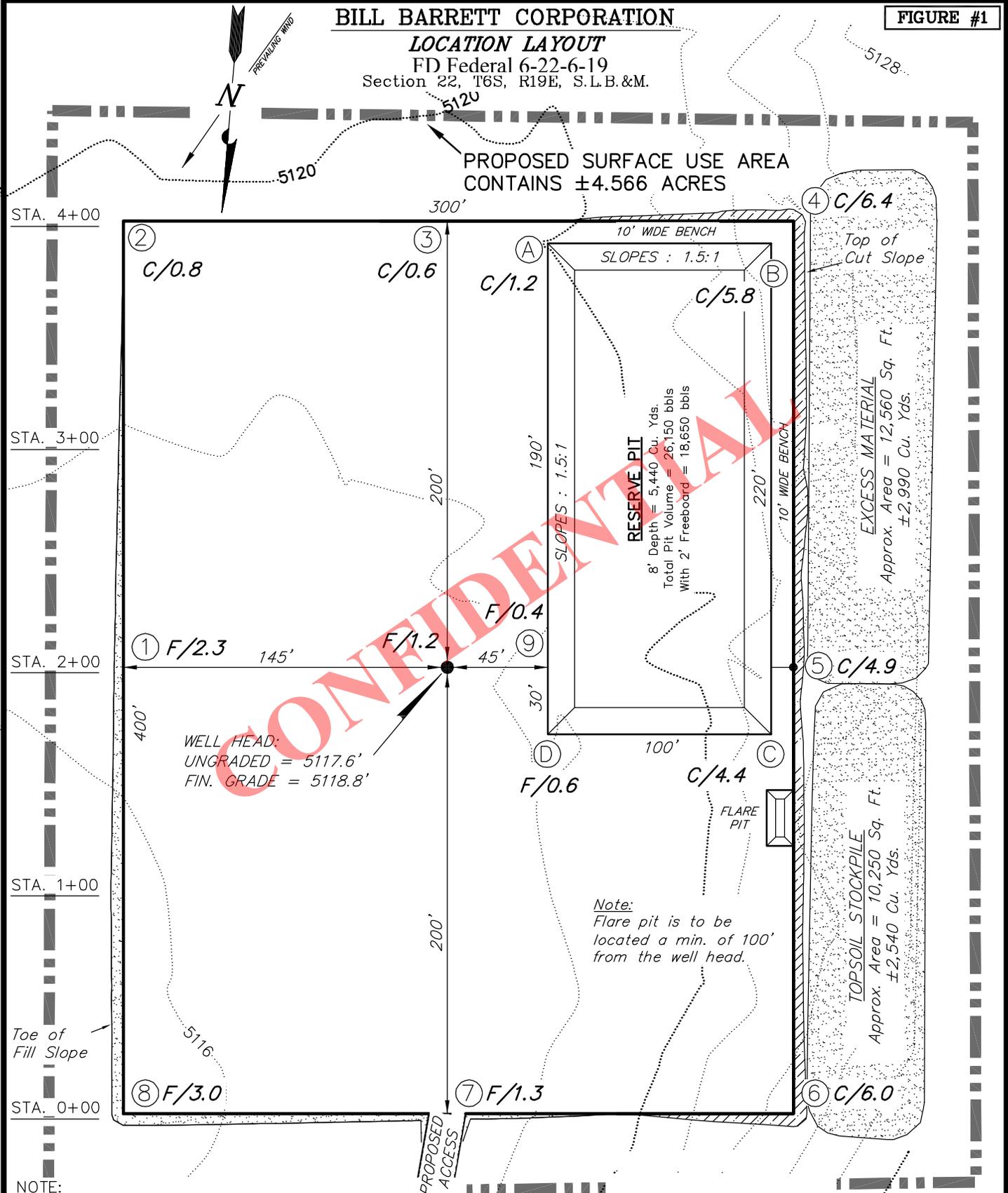
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**FIGURE #1**

**LOCATION LAYOUT**

FD Federal 6-22-6-19  
Section 22, T6S, R19E, S.L.B.&M.

PROPOSED SURFACE USE AREA  
CONTAINS ±4.566 ACRES



WELL HEAD:  
UNGRADED = 5117.6'  
FIN. GRADE = 5118.8'

*Note:*  
Flare pit is to be located a min. of 100' from the well head.

NOTE:  
The topsoil & excess material areas are calculated as being mounds containing 5,530 cubic yards of dirt (a 10% fluff factor is included). The mound areas are calculated with push slopes of 1.5:1 & fall slopes of 1.5:1.

300' SOUTHERLY - 5121.1'  
250' SOUTHERLY - 5120.0'  
245' EASTERLY - 5115.8'  
195' EASTERLY - 5116.2'

SURVEYED BY: C.D.S.	DATE SURVEYED: 03-15-12
DRAWN BY: L.C.S.	DATE DRAWN: 04-02-12
SCALE: 1" = 60'	REVISED:

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

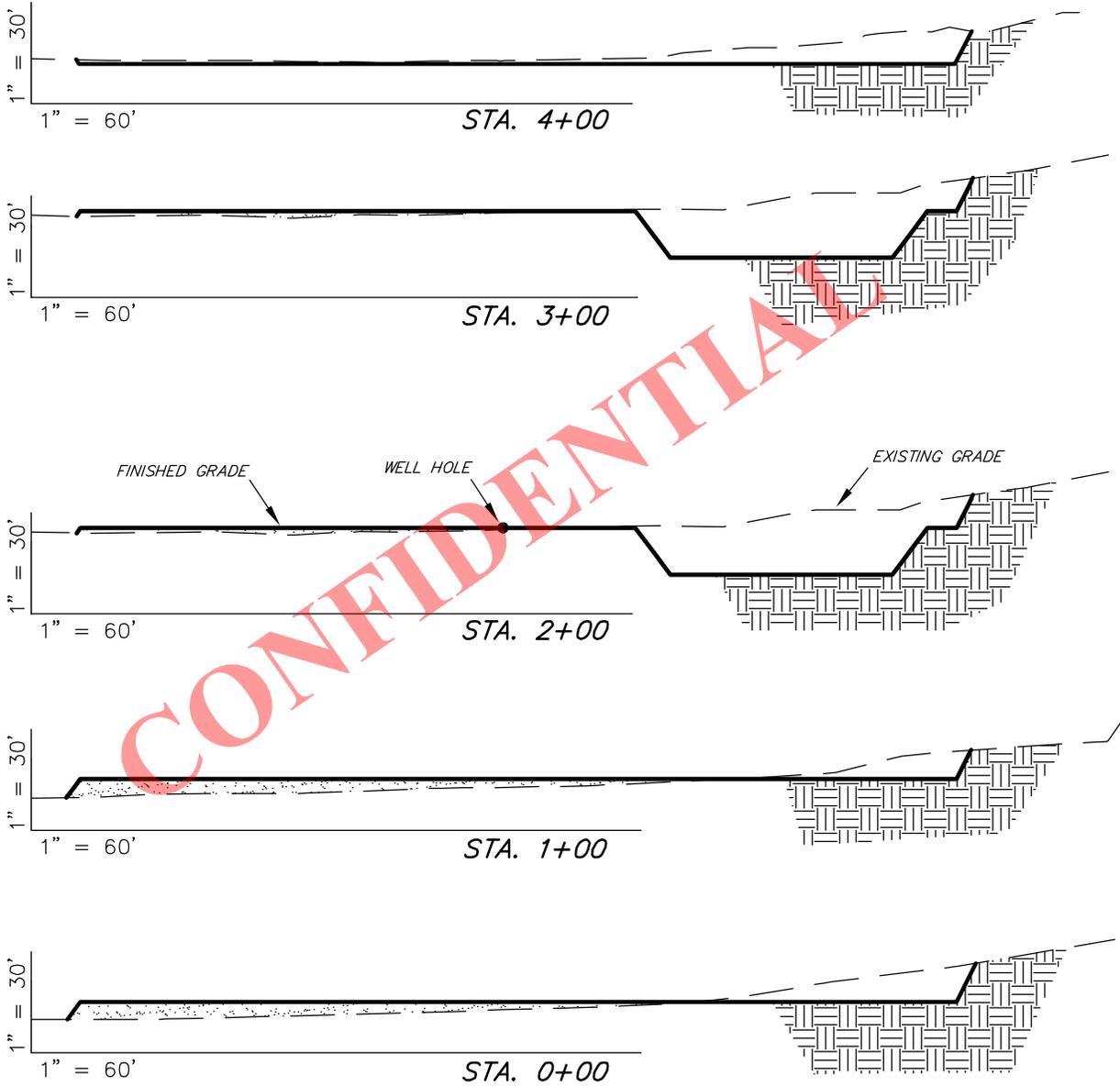
**SHEET 2**

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**FIGURE #2**

**TYPICAL CROSS SECTIONS**

FD Federal 6-22-6-19  
Section 22, T6S, R19E, S.L.B.&M.



NOTES:  
1.) UNLESS OTHERWISE NOTED CUT SLOPES ARE AT 1:1 & FILL SLOPES ARE AT 1.5:1.

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	2,570	5,290	Topsoil is not included in Pad Cut	-2,720
PIT	5,440	0		5,440
TOTALS	8,010	5,290	2,310	2,720

SURVEYED BY: C.D.S.	DATE SURVEYED: 03-15-12
DRAWN BY: L.C.S.	DATE DRAWN: 04-02-12
SCALE: 1" = 60'	REVISED:

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

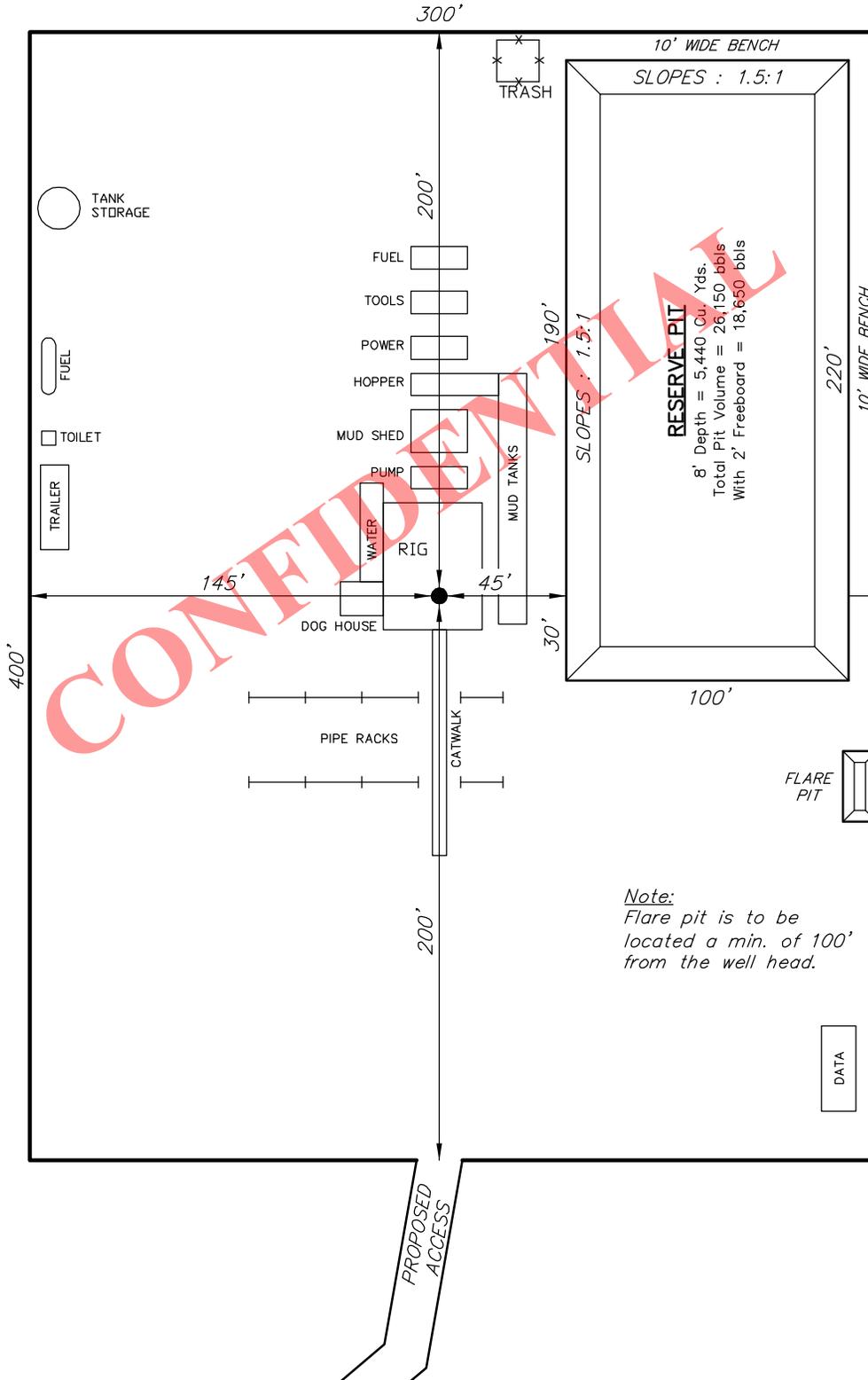
**SHEET 3**

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**FIGURE #3**

**TYPICAL RIG LAYOUT**

FD Federal 6-22-6-19  
Section 22, T6S, R19E, S.L.B.&M.



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SURVEYED BY: C.D.S.	DATE SURVEYED: 03-15-12
DRAWN BY: L.C.S.	DATE DRAWN: 04-02-12
SCALE: 1" = 60'	REVISED:

**Tri State**  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

(435) 781-2501

**SHEET 4**

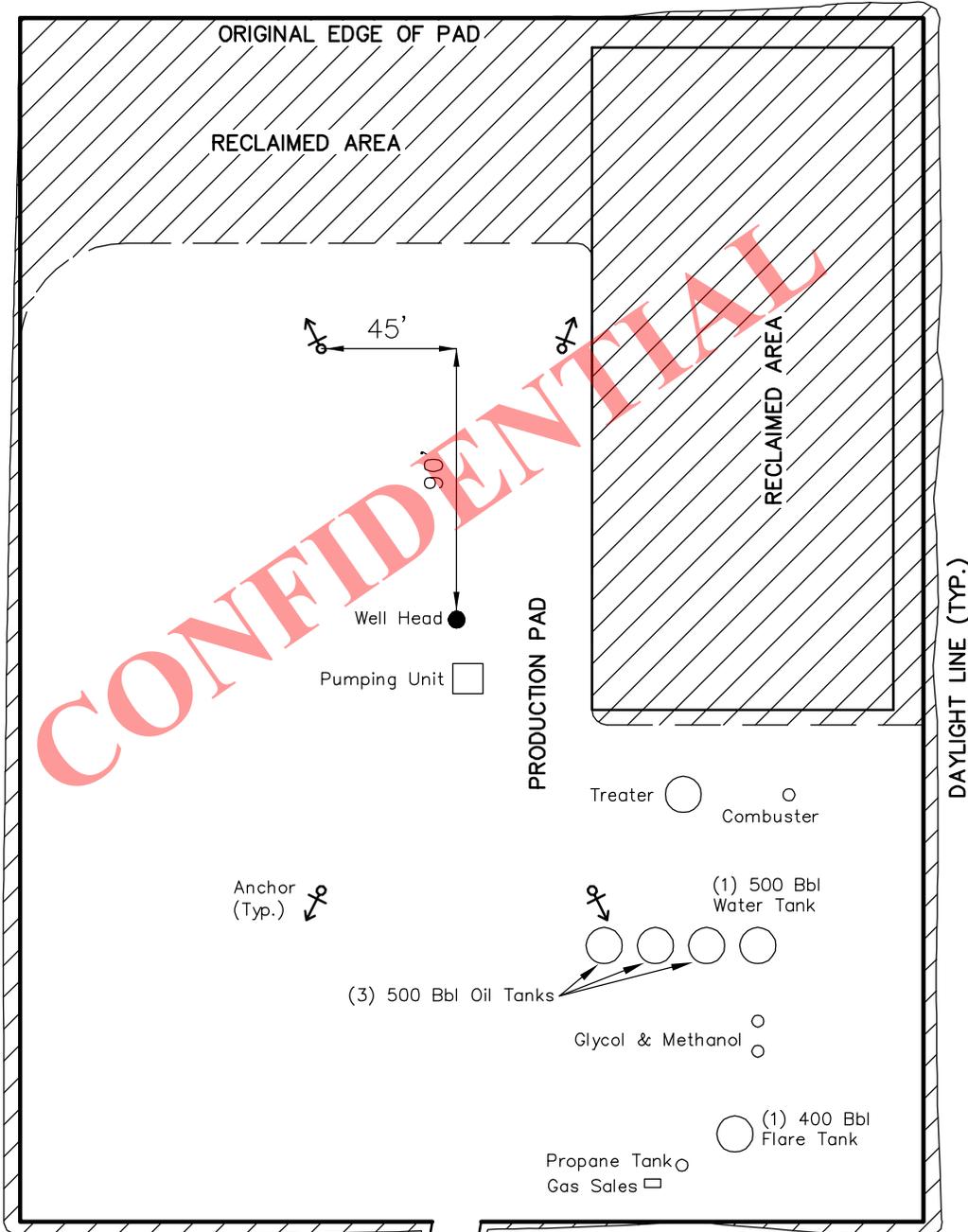
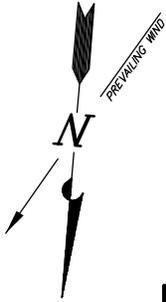
**BILL BARRETT CORPORATION**

**INTERIM RECLAMATION PLAN**

FD Federal 6-22-6-19

Section 22, T6S, R19E, S.L.B.&M.

**FIGURE #4**



**DISTURBED AREA:**  
 TOTAL DISTURBED AREA = 4.566 ACRES  
 TOTAL RECLAIMED AREA = 1.037 ACRES  
 UNRECLAIMED AREA = 3.529 ACRES

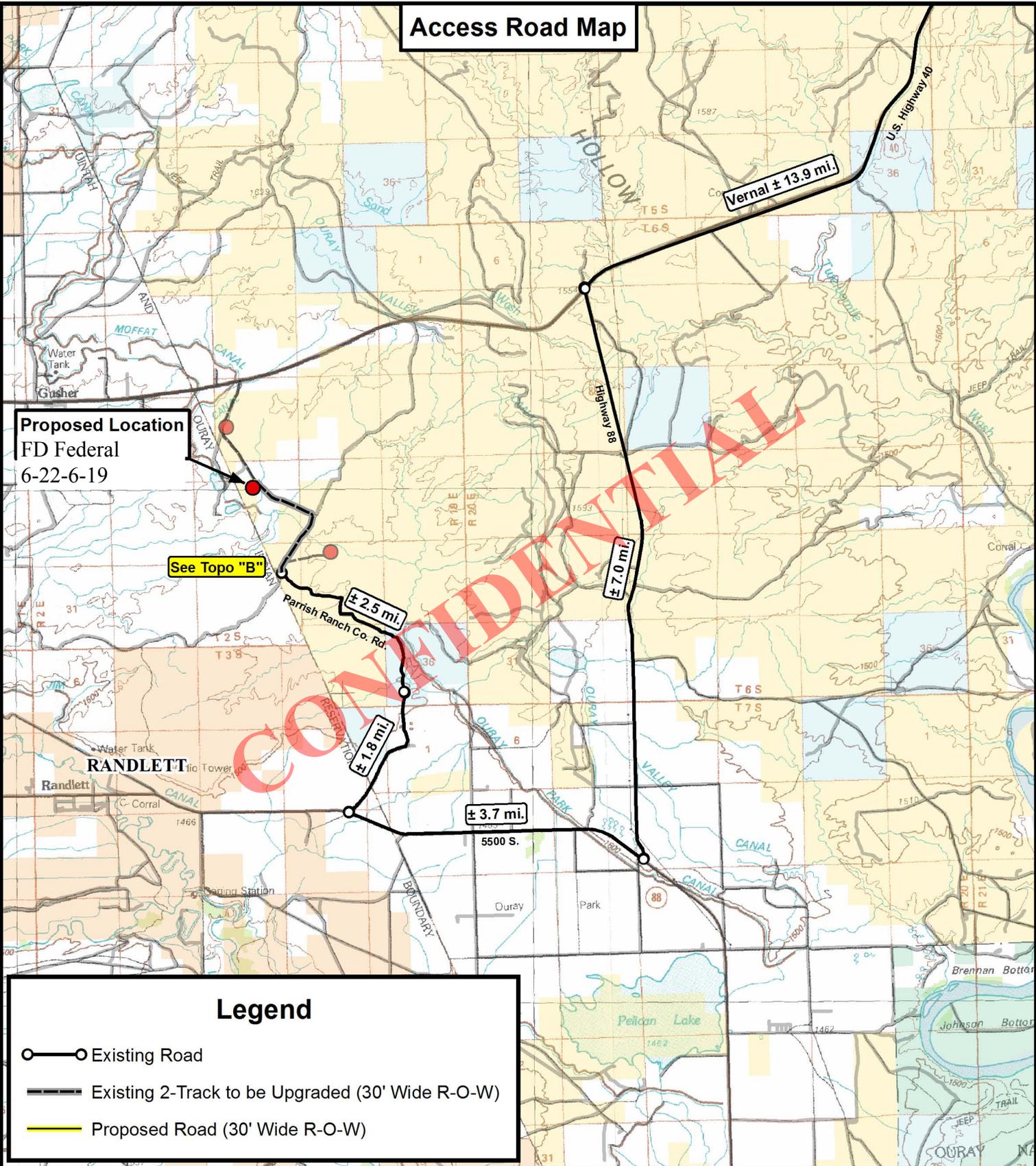
**NOTE: RECLAIMED AREA TO INCLUDE SEEDING OF APPROVED VEGETATION AND SUFFICIENT STORM WATER MANAGEMENT SYSTEM.**

SURVEYED BY: C.D.S.	DATE SURVEYED: 03-15-12
DRAWN BY: L.C.S.	DATE DRAWN: 04-02-12
SCALE: 1" = 100'	REVISED:

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

**SHEET 5**

**Access Road Map**



**Proposed Location**  
FD Federal  
6-22-6-19

See Topo "B"

**Legend**

- Existing Road
- Existing 2-Track to be Upgraded (30' Wide R-O-W)
- Proposed Road (30' Wide R-O-W)

**Tri State Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078

P: (435) 781-2501  
F: (435) 781-2518



**BILL BARRETT CORPORATION**

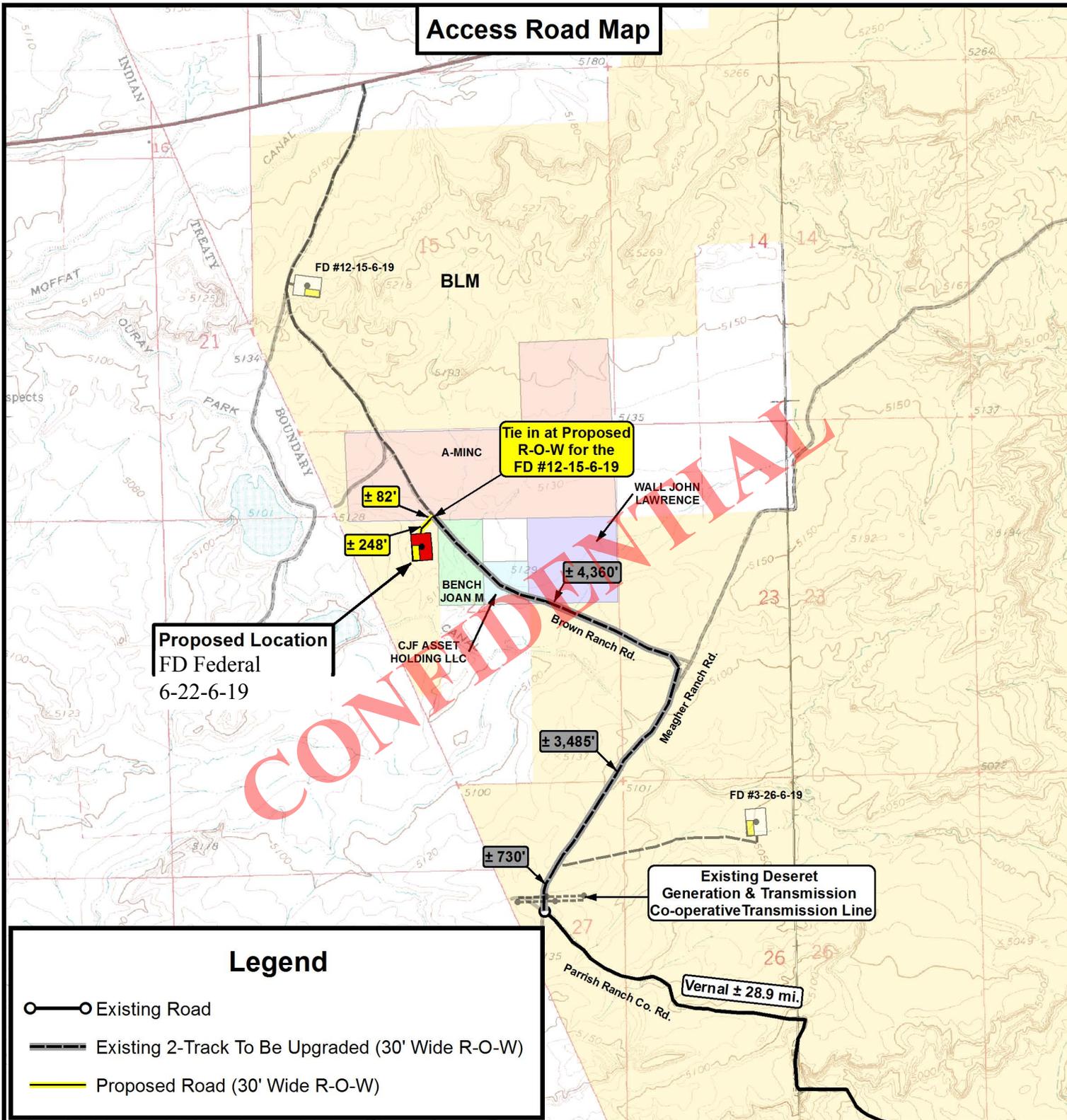
FD Federal 6-22-6-19  
SEC. 22, T6S, R19E, S.L.B.&M.  
Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	01-20-2012		
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET  
**A**

# Access Road Map



CONFIDENTIAL

## Legend

- Existing Road
- Existing 2-Track To Be Upgraded (30' Wide R-O-W)
- Proposed Road (30' Wide R-O-W)

**TOTAL PROPOSED ROAD DISTANCE:  $\pm 330'$**

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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## BILL BARRETT CORPORATION

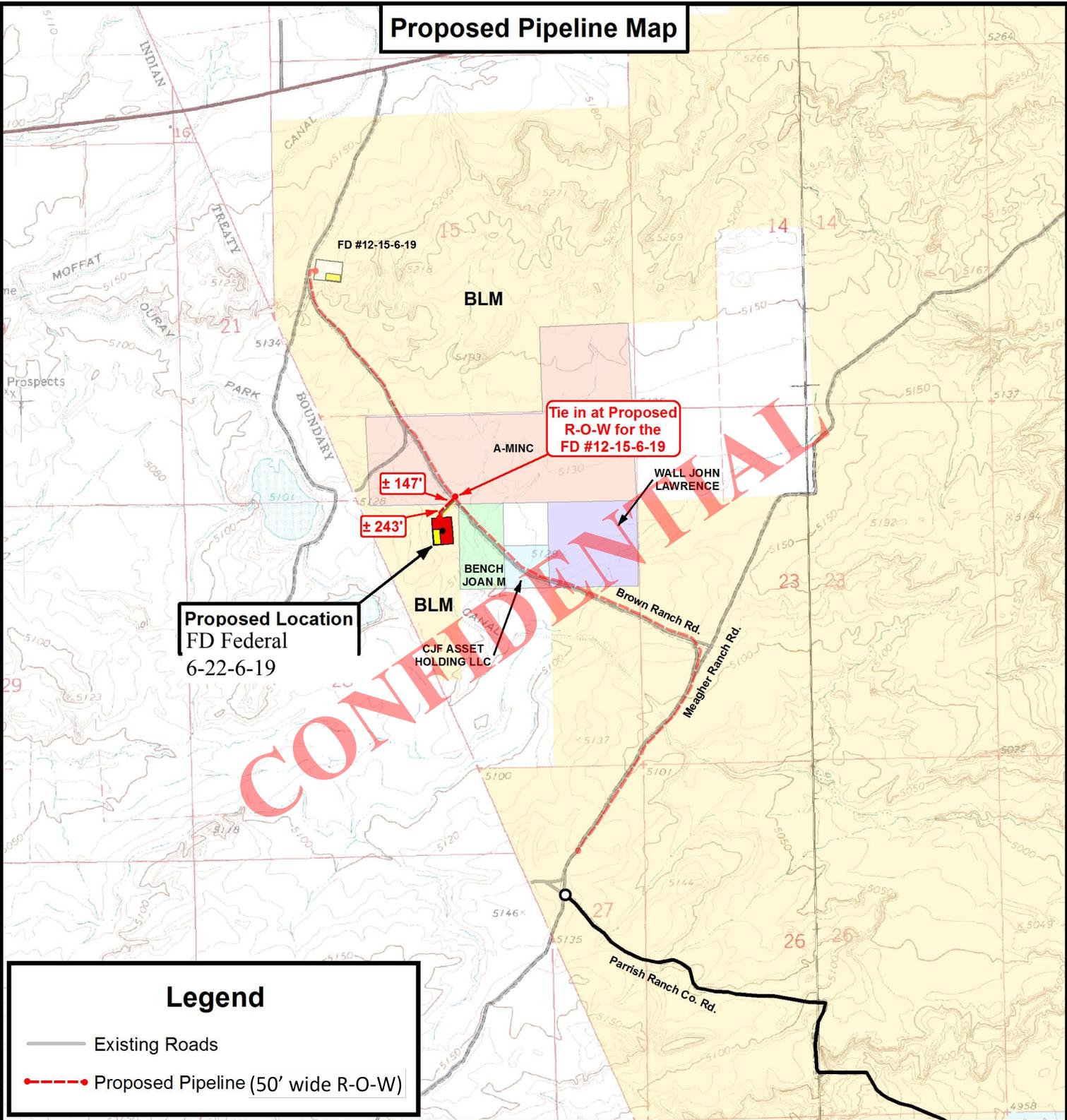
FD Federal 6-22-6-19  
SEC. 22, T6S, R19E, S.L.B.&M.  
Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	01-20-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



**Proposed Location**  
FD Federal  
6-22-6-19

**Tie in at Proposed**  
R-O-W for the  
FD #12-15-6-19

**Legend**

- Existing Roads
- - - Proposed Pipeline (50' wide R-O-W)

**TOTAL PIPELINE DISTANCE: ± 390'**

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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**BILL BARRETT CORPORATION**

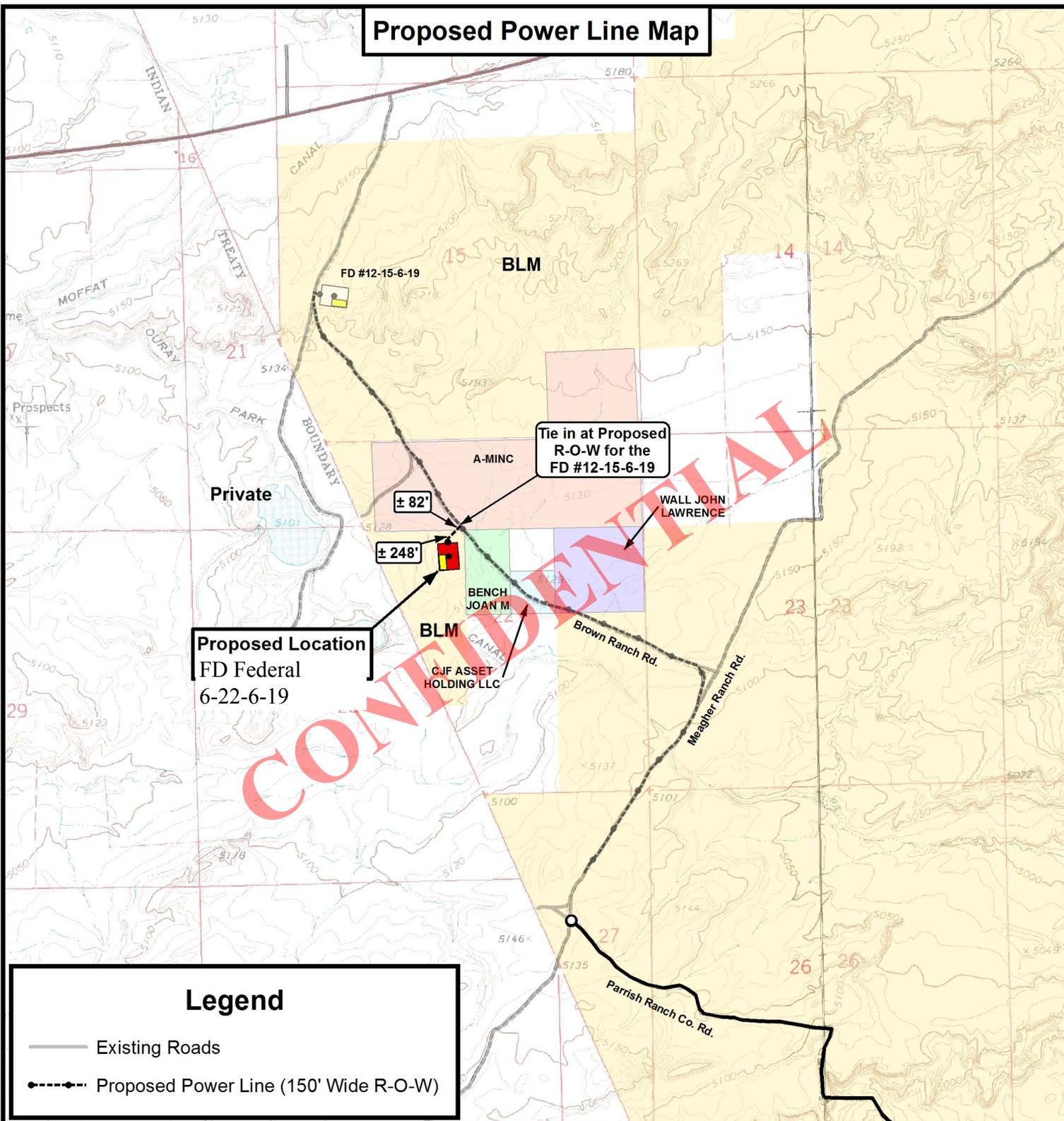
FD Federal 6-22-6-19  
SEC. 22, T6S, R19E, S.L.B.&M.  
Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	01-20-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**C**

**Proposed Power Line Map**



**TOTAL POWER LINE DISTANCE:  $\pm 330'$**

THE PARCEL INFORMATION SHOWN HAS NOT BEEN SURVEYED BY TRI-STATE LAND SURVEYING, INC. - TRI-STATE DOES NOT WARRANTY PROPERTY PARCEL DATA OR ANY ASSOCIATED INFORMATION. A PROPERTY SURVEY IS REQUIRED TO DETERMINE THE ACTUAL LOCATION OF PROPERTY LINES AND SHOW ACCURATE DISTANCES ACROSS PARCELS.

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**BILL BARRETT CORPORATION**

FD Federal 6-22-6-19  
 SEC. 22, T6S, R19E, S.L.B.&M.  
 Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	01-20-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**D**

**Location  
Photos**

**Center Stake  
Looking Easterly**

Date Photographed:	01/06/2012
Photographed By :	D. Slaugh



**Access  
Looking Westerly**

Date Photographed:	01/06/2012
Photographed By :	D. Slaugh



**Tri State**  
**Land Surveying, Inc.**  
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P: (435) 781-2501  
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**BILL BARRETT CORPORATION**

FD Federal 6-22-6-19  
 SEC. 22, T6S, R19E, S.L.B.&M.  
 Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	01-20-2012		

**COLOR PHOTOGRAPHS**

SHEET  
**P**

## **BILL BARRETT CORPORATION**

FD Federal 6-22-6-19

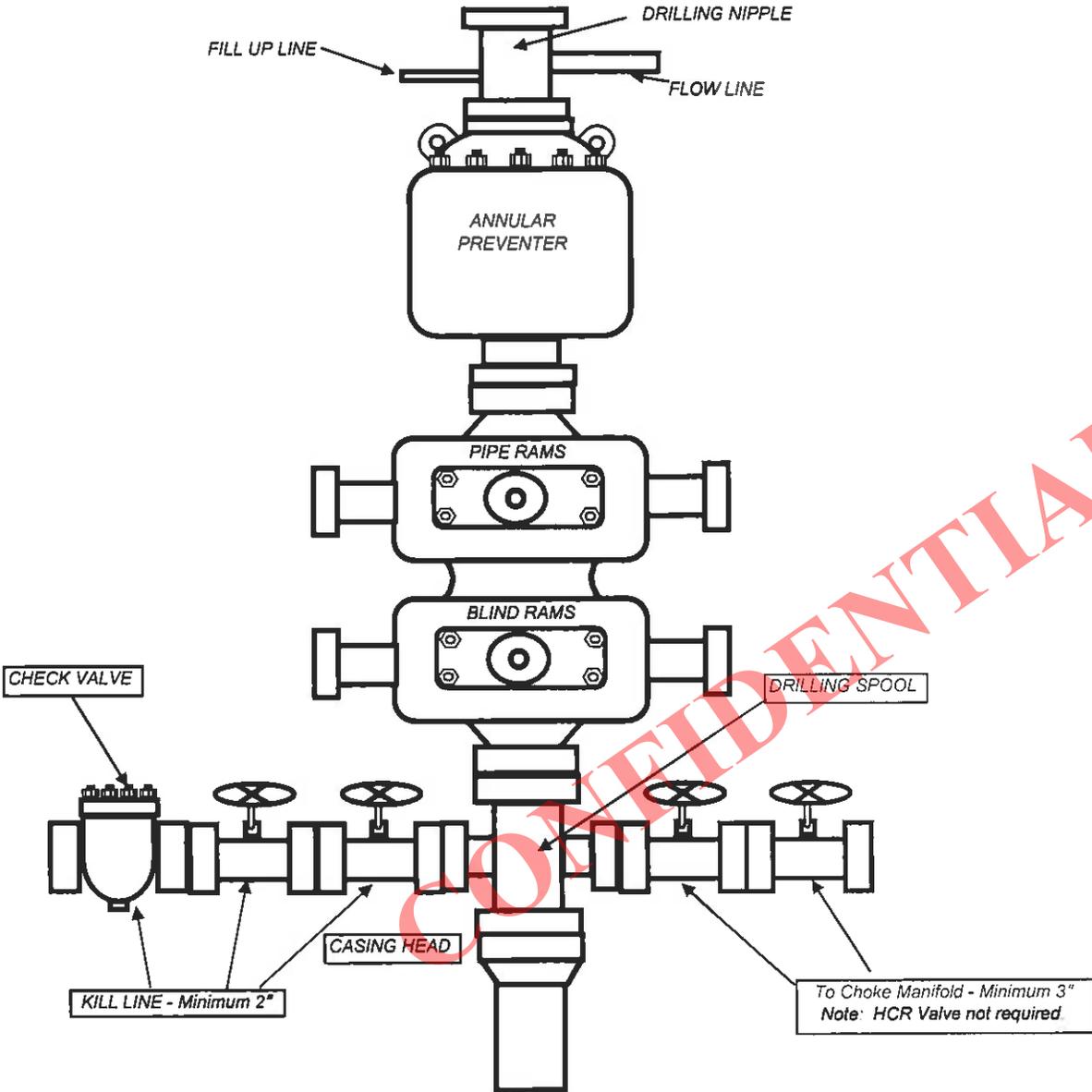
### **SECTION 22, T6S, R19E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF 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 AN EXISTING ROAD TO THE NORTHWEST; TURN RIGHT AND PROCEED IN A NORTHWESTERLY THENCE WESTERLY DIRECTION APPROXIMATELY 3.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD (PARISH RANCH ROAD) TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION FOR APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; STAY LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING 2-TRACK TO BE UPGRADED (MEAGHER RANCH ROAD) TO THE NORTH; TURN RIGHT AND PROCEED NORTHERLY APPROXIMATELY 3,486' ( $\pm 0.7$  MILES) TO THE JUNCTION OF THIS ROAD AND AN EXISTING 2-TRACK TO BE UPGRADED (BROWN RANCH ROAD) TO THE NORTHWEST; TURN LEFT AND PROCEED NORTHWESTERLY APPROXIMATELY 4,360' ( $\pm 0.8$  MILES) TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE FD #6-22-6-19. FOLLOW ROAD FLAGS IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 330' PROPOSED LOCATION.

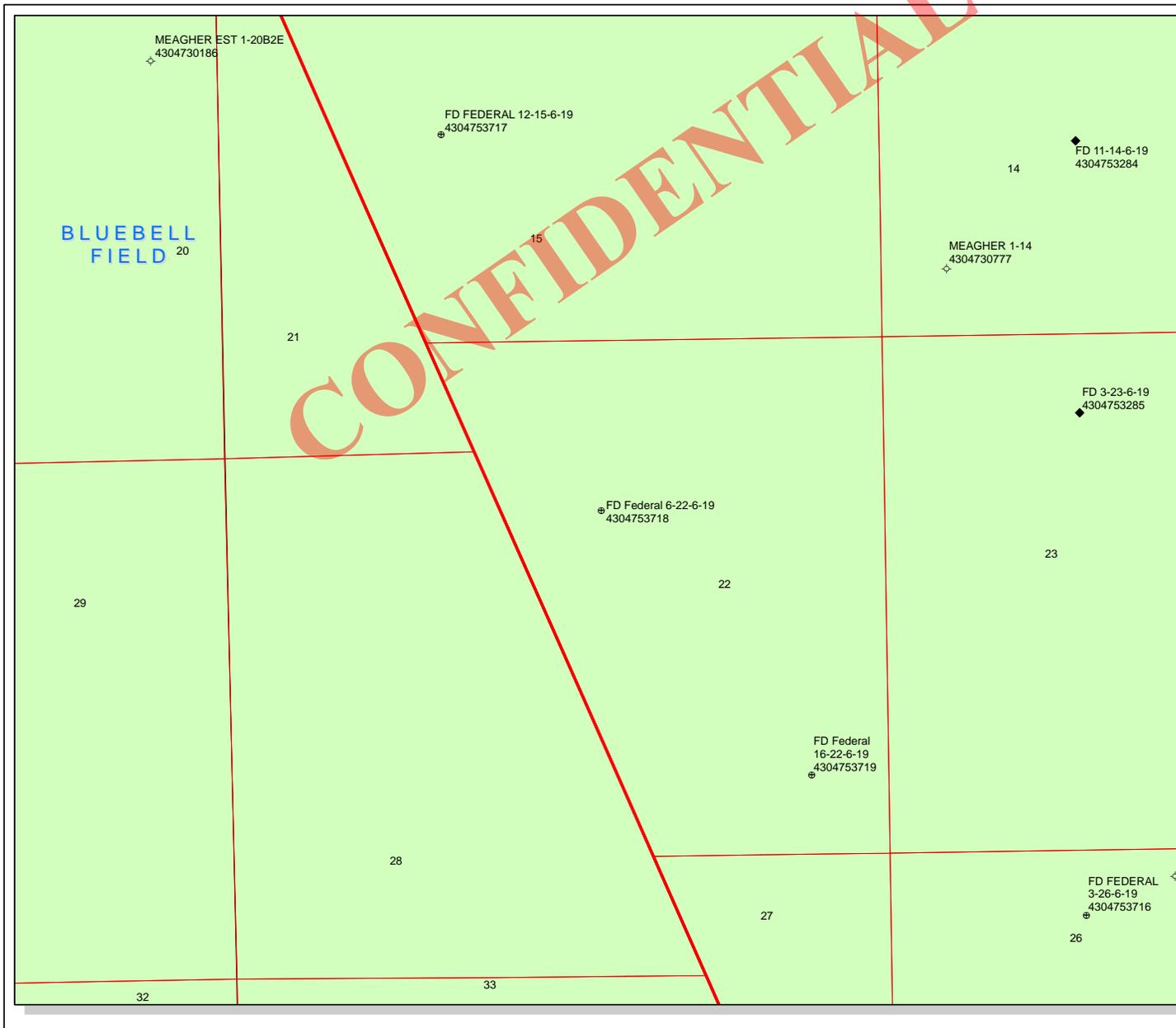
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 30.6 MILES

# BILL BARRETT CORPORATION

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



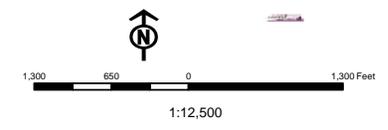
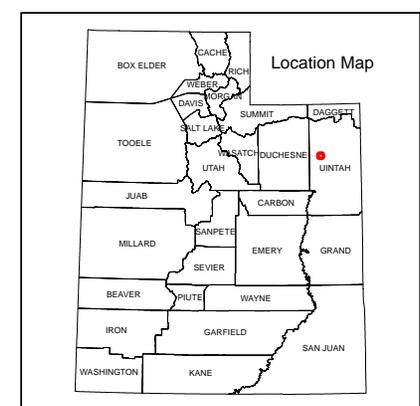




**API Number: 4304753718**  
**Well Name: FD Federal 6-22-6-19**  
**Township T06.0S Range R19.0E Section 22**  
**Meridian: SLBM**  
**Operator: BILL BARRETT CORP**

Map Prepared:  
 Map Produced by Diana Mason

- Units**
- ACTIVE
  - EXPLORATORY
  - GAS STORAGE
  - NF PP OIL
  - NF SECONDARY
  - PI OIL
  - PP GAS
  - PP GEOTHERMAL
  - PP OIL
  - SECONDARY
  - TERMINATED
- Fields**
- Unknown
  - ABANDONED
  - ACTIVE
  - COMBINED
  - INACTIVE
  - STORAGE
  - TERMINATED



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/17/2013

API NO. ASSIGNED: 43047537180000

WELL NAME: FD Federal 6-22-6-19

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SENW 22 060S 190E

Permit Tech Review: 

SURFACE: 1770 FNL 0942 FWL

Engineering Review: 

BOTTOM: 1770 FNL 0942 FWL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.28591

LONGITUDE: -109.77245

UTM SURF EASTINGS: 604542.00

NORTHINGS: 4460235.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU85589

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

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000040
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-11787
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingle Approved

## LOCATION AND SITING:

- R649-2-3.
- Unit:
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 139-42
- Effective Date: 4/12/1985
- Siting: 660' Fr Ext U Bdry & 1320' Fr Other Wells
- R649-3-11. Directional Drill

Comments: Presite Completed  
IRR SEC:

Stipulations: 4 - Federal Approval - dmason



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## Permit To Drill

\*\*\*\*\*

**Well Name:** FD Federal 6-22-6-19  
**API Well Number:** 43047537180000  
**Lease Number:** UTU85589  
**Surface Owner:** FEDERAL  
**Approval Date:** 4/30/2013

### 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 139-42. 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:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

### 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 at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**

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

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

**Approved By:**

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

For John Rogers  
Associate Director, Oil & Gas

RECEIVED

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

JUN 04 2013

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.  
UTU85589

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.  
FD FEDERAL 6-22-6-19

9. API Well No.  
43-213-53718

10. Field and Pool, or Exploratory  
WILDCAT

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 22 T6S R19E Mer SLB

12. County or Parish  
UINTAH

13. State  
UT

17. Spacing Unit dedicated to this well  
40.00

20. BLM/BIA Bond No. on file  
WYB000040

23. Estimated duration  
21 D&C

CONFIDENTIAL

1a. Type of Work:  DRILL  REENTER

1b. Type of Well:  Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
BILL BARRETT CORPORATION Contact: BRADY RILEY  
E-Mail: briley@billbarrettcorp.com

3a. Address  
1099 18TH STREET SUITE 2300  
DENVER, CO 80202

3b. Phone No. (include area code)  
Ph: 303-312-8115

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface Lot 8 1770FNL 942FWL  
At proposed prod. zone Lot 8 1770FNL 942FWL

14. Distance in miles and direction from nearest town or post office\*  
30.6 MILES TO VERNAL, UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
250' LEASE LINE

16. No. of Acres in Lease  
1251.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.  
4374'

19. Proposed Depth  
12263 MD  
12263 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)  
5118 GL

22. Approximate date work will start  
03/01/2014

24. Attachments

RECEIVED

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

JAN 30 2014

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission) Name (Printed/Typed) BRADY RILEY Ph: 303-312-8115 Date 05/30/2013

Title PERMIT ANALYST

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka Date JAN 24 2014

Title Assistant Field Manager Lands & Mineral Resources Office VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #209055 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by JOHNETTA MAGEE on 06/11/2013 ()

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: FD FEDERAL 6-22-6-19  
API No: 43-047-53718

Location: LOT 8 SEC 22 T06S R19E  
Lease No: UTU85589  
Agreement:

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:blm_ut_vn_opreport@blm.gov">blm_ut_vn_opreport@blm.gov</a>
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

***Paleontological Resources***

- **A paleontological monitor shall be required to spot check any bedrock disturbance associated with the proposed FD Federal 9-14-6-19, FD Federal 12-15-6-19, FD Federal 6-22-6-19, FD Federal 9-23-6-19, FD Federal 3-24-6-19 and the FD Federal 3-25-6-19 well pads and access road corridors.**

***Air Quality***

- Members of the construction crew shall be encouraged to car pool to and from the surrounding cities and towns as practicable to minimize vehicle-related emissions.
- No open burning of garbage or refuse at wells site or other facilities shall be allowed.
- During hot, dry and/or windy conditions, water or other approved dust suppressants shall be used at construction sites and along roads, as determined appropriate by the Authorized Officer.
- Open burning of garbage or refuse shall not occur at well sites or other facilities.
- Drill rigs shall be equipped with Tier II or better diesel engines.
- Phase II water lines shall be installed and buried to reduce incidents of freezing and to reduce the number of water-hauling trucks that could contribute to fugitive dust conditions.
- Where practicably feasible, well site telemetry shall be installed to remotely monitor and control production.
- Power lines shall be installed where possible, except where topographic features preclude installation of power lines. In addition, the ability to utilize electric power also requires that sufficient power capacity and infrastructure is readily available in the immediate area, including appropriate ROWs. Low bleed pneumatics shall be installed on separator dump valves and other controllers.
- During completion, venting and flaring shall be limited as much as possible. Production equipment and gathering lines shall be installed as soon as possible.
- When feasible, two (2) or more rigs (including drilling and completion rigs) shall not be run simultaneously within 200 meters of each other. If two (2) or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters from the nearest emission source shall be implemented. Examples of an effective public health protection buffer zone includes the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, BBC may demonstrate compliance with the 1-hour NO<sub>2</sub> NAAQS with appropriate and accepted near-field modeling. As part of this, BBC may propose alternative mitigation that could include but is not limited to natural gas-fire drill rigs, installation of NO<sub>x</sub> controls, time/use restriction, and/or drill rig spacing.
- All internal combustion equipment shall be kept in good working order.
- All new and replacement spark-ignition natural gas-fired internal combustion engines shall comply with the applicable emission limits found in Subpart JJJJ of the New Source Performance standards (40 CFR 60 subpart JJJJ).
- Green completions shall be used for all well completion activities where technically feasible.
- Enhanced volatile organic compounds (VOCs) emission controls with 95 percent control efficiency shall be employed on storage tanks having a potential to emit greater than five (5) tons per year (tpy) of VOC uncontrolled.
- Per the terms set out in the Consent Decree (Civil Action No. 2:09-CV-330 TS), approved by the EPA on November 13, 2009, BBC shall commit to the following air quality protective measures listed below:
  - Dehydrator emissions from new oil and/or gas production facilities that exceed 20 tpy of VOCs shall be controlled to achieve a 95 percent by weight or greater reduction of VOC or total hazardous air pollutant emissions.

- All internal combustion equipment and emission capture, collection and pollution abatement equipment, including vent lines, connections, fittings, valves, relief valves, hatches and other appurtenances required shall be maintained in good working order following manufacturer recommendations or best practices.
- BBC shall implement a fugitive inspection and repair program.
- BBC shall employ tank best management practices such as requiring thief and other tank hatches are to be closed after gauging and unloading activities, installing low emission hatches and maintaining valves in a leak-free condition.

### ***Water Resources, Including Waters of the United States***

- If springs are encountered and impacted during construction, the spring(s) shall be protected, fenced, and repaired to pre-existing conditions at the direction of the BLM.
- If any work associated with construction of a proposed pipeline shall require the placement of dredged or fill material in an existing wetland or shall have the potential to alter the nature of existing water ways, the U.S. Army Corps of Engineers (USACE) shall be notified by BBC in order to obtain the necessary permits or jurisdictional determinations pursuant to Section 404 of the Clean Water Act.
- Surface disturbance and placement of staging areas, fueling and maintenance areas, shall be avoided within 330 feet from centerline of U.S. Geological Survey (USGS)-named drainages unless no other practical alternative exists.
- No excess material (e.g., soil, overburden, etc.) shall be stored within mapped 100-year floodplains of USGS-named drainages; all excess material shall be relocated to appropriate locations outside of 100-year floodplains within the project area.
- Construction activities at perennial or USGS-named drainage crossings (e.g., burying pipelines, installing culverts) shall be timed to avoid high flow conditions. Construction that disturbs any flowing stream shall utilize either a piped stream diversion or a cofferdam and pump to divert flow around the disturbed area.
- Culverts at drainage crossings shall be designed and installed to pass a 25-year or greater storm event. On perennial and USGS-named intermittent streams, culverts shall be designed to allow for passage of aquatic biota. The minimum culvert diameter in any installation for a drainage crossing or road drainage shall be 24-inches. Due to the likelihood for flash flooding in the project area's drainages and anticipated culvert maintenance, drainage crossings shall be designed for the 100-year storm event.
- Pipelines installed beneath USGS-named drainages shall be buried at a minimum depth of four (4) feet below the channel substrate to avoid exposure by channel scour and degradation. Following burial, the channel grade and substrate composition shall be returned to pre-construction conditions.

### ***Protection from Erosion***

- New and existing roads shall be constructed, updated, and maintained in accordance with the "Gold Book" (BLM-USFS 2007, as revised).
- No installation activity shall be performed during periods when the soil is too wet to adequately support installation equipment. If such equipment creates ruts in excess of three (3) inches deep in straight line travel routes, the soil shall be deemed too wet to adequately support the equipment, and installation activities shall cease until drier or frozen conditions are encountered.
- After testing of the pipeline, stabilization barriers, water bars, silt fences, or other erosion control devices shall be installed in the disturbed area. In areas where steep slopes occur, spoils shall be bermed and water shall be directed to rock armored turnouts to prevent down-slope erosion. Erosion blankets and hand seeding shall also be used in these areas.
- Minimize placement of well pads on ridgelines or steep slopes that shall result in excessive fill areas. If a well pad must be placed in such sites, site specific best management practices shall be constructed and maintained to minimize erosion of the fill areas and increased sedimentation from such sites.

- All storage tanks containing produced water, or other fluids which may constitute a hazard to public health or safety, shall be surrounded by a secondary means of containment for the entire contents of the tank, plus freeboard for precipitation, or to contain 110 percent of the capacity of the largest tank.
- Production facilities that have the potential to leak produced water, or other fluids which may constitute a hazard to public health or safety, shall be placed within appropriate containment and/or diversionary structures to prevent spilled or leaking fluid from reaching ground or surface waters.
- Notice of any reportable spill or leakage shall be reported per agency guidelines. Oral notice shall be given as soon as possible, but within no more than 24 hours, and those oral notices shall be confirmed in writing within 72 hours of any such occurrence.
- No oil, lubricant, or toxic substance shall be intentionally drained onto the ground surface.
- Topsoil shall be salvaged and stockpiled for later use. Topsoil stockpiles shall be designed to maximize surface area in order to reduce impacts to soil microorganisms.
- Areas used for spoil storage shall be stripped of topsoil before soil placement.
- Erosion protection and silt retention shall be provided by the installation and maintenance of silt catchment dams, where needed as feasible. At all well pad locations, soil berms shall be constructed to divert water runoff away from the drilling location.
- Reroute existing upslope drainages around proposed well pad locations and all topsoil and subsoil material stockpiles. Restore natural drainage routes as part of interim reclamation actions, if appropriate.
- Construct erosion control devices (i.e., riprap, weed-free straw bales, plant woody vegetation, etc.) at culvert outlets or as directed by the surface land owner. All such devices shall be completed to retain natural water flows.

#### ***Existing Facilities and Rights-of-Way***

- If the proposed access roads and/or pipeline corridors cross existing fences, all fences shall be braced before being cut and a temporary gate shall be installed. All fences shall be restored to functional condition immediately after project completion.
- BBC shall repair or replace any fences, cattle guards, gates, drift fences and natural barriers that are damaged as a result of implementation of the proposed project. Cattle guards shall be the preferred method of livestock control on most road corridors where fences are crossed, unless otherwise directed by the surface landowner.

#### ***Fish and Wildlife, Including Special Status Animal Species***

##### **Big Game**

- In order to reduce the potential for significant adverse impacts to big game populations, construction activity within mapped crucial habitat for big game species, (i.e., antelope or mule deer), as delineated by the Utah Division of Wildlife Resources (UDWR), may require site-specific consultation during select times of the year. Any decision to mitigate for a potential impact or to implement a restriction in crucial habitats shall be determined by the BLM, or any time before construction begins. This restriction shall not apply to maintenance and operation of existing facilities.
- Additional wildlife resource protection measures directed at protecting identified big game wildlife corridors shall be considered. New project-related disturbances within drainages and critical corridors shall be avoided where practicable. Where the disturbances cannot be avoided, their locations shall be selected to minimize environmental effects and maximize maintenance of the corridor as a single unit. Specific details associated with minimization of environmental effects and mitigation as appropriate, within identified big game wildlife corridors shall be determined collaboratively with the BLM and BBC during the onsite process.

##### **Migratory Birds**

- Screens or other devices shall be installed on the stacks and on other openings of heater-treaters or fired-vessels as directed by the BLM.
- BBC shall remove any visible accumulation of other than *de minimis* oil from the drilling or workover pit immediately upon release of the drilling rig to reduce the potential of entrapping or poisoning migratory birds.

### **Raptors**

BBC shall comply with BLM's approved RMP decisions involving raptor management (specifically decision WL-21) (BLM 2008a). Surveys conducted on private surface land shall only occur at the discretion of the landowner.

### ***Vegetation, Including Federally-listed Plant Species and Noxious and Invasive Species***

- Reclamation actions outlined above shall be implemented, or as directed by the BLM.
- BBC shall aggressively identify, treat and control noxious and invasive plant species within the project area whose presence relates directly to oil and gas activities within the project area.
- BBC shall implement their current Pesticide Use Proposal (PUP), on file with the BLM.

### ***Human Health and Safety***

- To protect and minimize the possibility of fires during construction, all equipment, including welding trucks, shall be equipped with fire extinguishers and spark arresters.
- Where alignment of pipelines shall cross or parallel roads, highways or waterways, BBC shall provide warning signs to inform the public of the presence of the line.
- Vehicle users associated with the oil field shall be instructed to travel at low speed and remain on existing roads and well pads at all times.
- Storage facilities may be fenced as determined necessary by the BLM during the onsite process.

### ***Protection from Hazardous Materials Spills***

- Collection pipelines shall be designed to minimize potential for spills and leaks, including the following, where appropriate:
  - Stream banks shall be stabilized with large, angular rock or wire-enclosed riprap.
  - Substrate layers should be replaced in the same order that they are removed.
  - Pipeline crossings of streams and any riparian areas shall be at right angles to minimize the area of disturbance
  - Pipelines crossing live streams shall be protected by automatic shutoff valves.
- Construction methods shall provide for eliminating or minimize discharges of turbidity, sediment, organic matter or toxic chemicals. Settling basins or cofferdams may be utilized for this purpose.
- BBC shall inform their employees, contractors and subcontractors of the potential impacts that can result from accidental spills as well as the appropriate actions to take if a spill occurs.
- No produced water shall be discharged into surface water drainages or allowed to flow onto the ground surface.
- Notice of any reportable spill or leakage shall be immediately reported by BBC, or their contractors/subcontractors as required by regulation. Oral notice shall be given as soon as possible, but within no more than 24 hours. Oral notices shall be confirmed in writing within 72 hours of any such occurrence.
- Any deviation of submitted APD's, which includes BBC's surface use plan, and ROW applications the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.

***General Conditions of Approval***

- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

1. Gamma Ray Log shall be run from total depth to surface.
2. To effectively protect useable water, cement for the long string is required to be brought 200 feet above the surface casing shoe.
3. A bowl diverter system, which is connected and discharges to a panic or choke blooie line, shall be installed while drilling of the surface hole section.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

#### **OPERATING REQUIREMENT REMINDERS:**

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location ( $\frac{1}{4}$ / $\frac{1}{4}$ , Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).

- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
<b>1. TYPE OF WELL</b> Oil Well	<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU85589
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S	<b>8. WELL NAME and NUMBER:</b> FD Federal 6-22-6-19
<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. API NUMBER:</b> 43047537180000
<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED	<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 checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 4/30/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> <b>APD EXTENSION</b>
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC hereby requests a one year extension for APD.

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

**Date:** March 25, 2014

**By:** 

<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> 3/24/2014	



**The Utah Division of Oil, Gas, and Mining**

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

**Request for Permit Extension Validation Well Number 43047537180000**

API: 43047537180000

Well Name: FD Federal 6-22-6-19

Location: 1770 FNL 0942 FWL QTR SENW SEC 22 TWNP 060S RNG 190E MER S

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 4/30/2013

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated?  Yes  No
  
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?  Yes  No
  
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?  Yes  No
  
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?  Yes  No
  
- Has the approved source of water for drilling changed?  Yes  No
  
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?  Yes  No
  
- Is bonding still in place, which covers this proposed well?  Yes  No

Signature: Christina Hirtler

Date: 3/24/2014

Title: Administrative Assistant Representing: BILL BARRETT CORP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU85589
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<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:  7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD Federal 6-22-6-19
-----------------------------	--

2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537180000
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3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1770 FNL 0942 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S	COUNTY: UINTAH  STATE: UTAH
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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: 6/1/2014  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input checked="" 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.

Bill Barrett Corporation is requesting permission to revise the surface casing set depth for this well to 1200'. Hole size will remain the same. Surface casing size will change from 9-5/8" to 8-5/8". Revised cement amounts will change to 170sx (lead) and 270sx (tail) and the production cement amount will change to 830sx (lead); 790sx (tail). See attached revised drilling plan f additional information.

**Accepted by the Utah Division of Oil, Gas and Mining**  
 May 22, 2014

Date: \_\_\_\_\_  
 By: Dark Quif

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 5/19/2014

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

***FD Federal 6-22-6-19***

LOT 8, 1770' FNL & 942' FWL, Sec. 22, T6S-R19E, SLB&M, Uintah County, UT

**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</u></b>
Uinta	1788'
Green River	4933'
Mahogany	6513'
TGR3	7773'
Douglas Creek	7958'
Black Shale	8513'
Castle Peak	8593'
Wasatch	9263'
TD	12263'

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

Base of Moderately Saline Water: 4643'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 1200'	Rotating Head or Diverter (may pre-set 8-5/8" with smaller rig)
1200' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><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	1200'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

NOTE: May pre-set 8-5/8" surface casing with spudder rig. See Appendix A below.

Bill Barrett Corporation  
 Drilling Program  
 FD Federal #6-22-6-19  
 Uintah County, Utah

### 5. Cementing Program

16" Conductor Casing	Grout
8 5/8" Surface Casing	Lead: 170 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: 270 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 @ 700'
5 1/2" Production Casing	Lead: 830 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 700' Tail: 790 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 @ 8013'

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
80' – 1200'	9.2 – 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
1200' – TD	9.4 – 9.5	42-52	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.
<b>NOTE: If BBC pursues the "Alternate" program, a suite of the above logs will be run on both the intermediate and production hole sections.</b>	

### 8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 6058 psi\* and maximum anticipated surface pressure equals approximately 3360 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

Bill Barrett Corporation  
Drilling Program  
FD Federal #6-22-6-19  
Uintah County, Utah

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A - (0.22 x TD)

**9. Auxiliary Equipment**

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

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

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction: June 2014  
Spud: June 2014  
Duration: 15 days drilling time  
6 days completion time

**12. Appendix A**

If we pre-set the 8-5/8" casing on this well with a spudder rig, the following equipment shall be in place and operational during air/gas drilling:

- Blooie line discharge will be a minimum of **45'** from well bore and securely anchored
- Mud circulating equipment and a minimum of 200 bbls of water will be on location (Volume sufficient to maintain the capacity of the hole and circulating tanks or pits).
- No igniter will be on blooie line while drilling the surface hole
- The spudder/air rig air compressor will be located on the rig



# Bill Barrett Corporation

## FORT DUSHESNE CEMENT VOLUMES

**Well Name:** FD Federal 6-22-6-19 REVISED

### Surface Hole Data:

Total Depth:	1,200'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	8.625"

### Calculated Data:

Lead Volume:	505.6	ft <sup>3</sup>
Lead Fill:	700'	
Tail Volume:	361.1	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:	170
--------------	-----

Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	700'	

# SK's Tail:	270
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### Production Hole Data:

Total Depth:	12,263'
Top of Cement:	700'
Top of Tail:	8,013'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1900.5	ft <sup>3</sup>
Lead Fill:	7,313'	
Tail Volume:	1104.6	ft <sup>3</sup>
Tail Fill:	4,250'	

### 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:	830
# SK's Tail:	790

<b>FD Federal 6-22-6-19 REVISED Proposed Cementing Program</b>
--

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (700' - 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: 700'
	Volume: 90.04 bbl
	<b>Proposed Sacks: 170 sks</b>
<b>Tail Cement - (TD - 700')</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: 700'
	Calculated Fill: 500'
	Volume: 64.32 bbl
	<b>Proposed Sacks: 270 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8013' - 700')</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: 700'
	Calculated Fill: 7,313'
	Volume: 338.47 bbl
	<b>Proposed Sacks: 830 sks</b>
<b>Tail Cement - (12263' - 8013')</b>	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 8,013'
	Calculated Fill: 4,250'
	Volume: 196.72 bbl
	<b>Proposed Sacks: 790 sks</b>

**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

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

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

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

**C. Testing Procedure:**

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

**D. Choke Manifold Equipment:**

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

**E. Accumulator:**

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

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

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

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

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

**F. Miscellaneous Information:**

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

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

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: UTU85589
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<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:  7. UNIT or CA AGREEMENT NAME:
--	--

1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD Federal 6-22-6-19
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2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537180000
---	----------------------------------

3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: UNDESIGNATED
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 1770 FNL 0942 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S	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: 6/5/2014  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input checked="" 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.

Bill Barrett Corporation is requesting permission to revise the production casing grade from P-110 to I-80. Production casing and hole size along with cement totals will remain the same as previously approved.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 June 05, 2014**

Date: \_\_\_\_\_  
 By: Dark Quist

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 6/5/2014

<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>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU85589
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 Federal 6-22-6-19	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43047537180000	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S		<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 type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 9/9/2014  <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: 9/9/14 Spud Time: 8:00 AM Commence Drilling approximate start date: 10/1/2014		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 09, 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> 9/9/2014	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# CAPSTAR 328  
Submitted By Jeffrey Johnson Phone Number 303-353-5425  
Well Name/Number FD 6-22-6-19  
Qtr/Qtr SENW Section 22 Township 6S Range 19E  
Lease Serial Number UTU85589  
API Number 4304753718

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 9/13/2014 22:00 AM  PM

BOPE

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

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

Remarks Run surface casing & cement

\_\_\_\_\_

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> UTU85589	
		<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 Federal 6-22-6-19	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537180000	
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED	
		<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: 9/30/2014	<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 September 2014 Drilling Activity for this well.			
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 06, 2014</b>			
<b>NAME (PLEASE PRINT)</b> Christina Hirtler		<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A		<b>DATE</b> 10/2/2014	

**FD 06-22-6-19 9/12/2014 06:00 - 9/13/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	MIRU RT'S.
18:00	4.00	22:00	21	OPEN	NU ROTATING HEAD, RU FLARE & FLOW LINES.
22:00	1.50	23:30	20	DIRECTIONAL WORK	PU BHA, SCRIBE TOOLS
23:30	6.50	06:00	2	DRILL ACTUAL	Rotary drl f/93' KB t/518'. Circulating reserve pit, send polymer sweeps w/sawdust.

**FD 06-22-6-19 9/13/2014 06:00 - 9/14/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	2	DRILL ACTUAL	Rotary drl f/518' t/TD/CP @ 1240'.
12:30	5.50	18:00	6	TRIPS	Circ 2 btms up, send LCM sweeps, wiper trip t/drill collars, tih, no fill, C&C, shakers clean. LDDP,HWDP & BHA.
18:00	3.00	21:00	12	RUN CASING & CEMENT	RU floor t/run surface casing. PU FS, shoe jt, FC, 27 jts 8 5/8" 24# J55 STC, landed @ 1234.56'.
21:00	3.00	00:00	12	RUN CASING & CEMENT	C&C f/cmt job. Held pre job safety meeting w/Halliburton. RU cmt head, test lines t/3000 psig. Pump 20 bbl FW spacer, 40 bbl Super Flush @ 10 ppg, 20 bbl FW spacer, 160 sx lead cmt, 90 bbls slurry @ 11 ppg, 280 sx tail cmt, 68 bbls slurry @ 14.8 ppg, drop wiping plug, displace w/75.5 bbls FW, bump plug t/950 psi, 500 over differential of 450 psi. Held f/5 minutes, bled off, floats held. 37 bbls slurry t/surface.
00:00	4.00	04:00	13	WAIT ON CEMENT	Wait 2 hours, top off surface csg t/17 bbls 15.8 ppg & 1" pipe. WOC.
04:00	2.00	06:00	21	OPEN	Weld on csg head.

**FD 06-22-6-19 9/14/2014 06:00 - 9/15/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	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	21	OPEN	Weld on casing head & test t/1500 psig.
07:00	4.00	11:00	14	NIPPLE UP B.O.P	NU Bope.
11:00	2.50	13:30	15	TEST B.O.P	Held pre job safety meeting w/tester. Test pipe rams, blind rams, choke lines & manifold, inside valves, check valves, kill line, kelly valve, dart valve, floor valve, t/5000 psig f/10 minutes. Test annular t/1500 psig, test casing t/1500 psig f/30 minutes, test chokes t/500 psig f/10 minutes. RD tester.
13:30	2.50	16:00	20	DIRECTIONAL WORK	Install wear bushing. PU BHA & scribe tools.
16:00	1.00	17:00	9	CUT OFF DRILL LINE	Slip & cut drlg line
17:00	1.50	18:30	3	REAMING	Drl shoe track & 5' open hole, perform EMW test t/10.5 ppg.
18:30	11.50	06:00	2	DRILL ACTUAL	Drl f/1245' t/ 2635' . 10-28k WOB, 50-65 rpm, 500 gpm, maximum WOB of 28k increases rotary torque t/10,800 ft/lbs and stalls top drive, ROP decreases, 11-20k IROP 175-230 fph. 121 fph average.

**FD 06-22-6-19 9/15/2014 06:00 - 9/16/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Rotary drl f/2635' t/3858', 20-22k wob, 60 rpm 500 spm.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service
18:00	12.00	06:00	2	DRILL ACTUAL	Rotary drl f/3858' t/4745', 18-22k wob, 50-60 rpm 525 gpm, no losses. Average 74 fph, IROP 40-125 fph.

**FD 06-22-6-19 9/16/2014 06:00 - 9/17/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	22.50	04:30	2	DRILL ACTUAL	Rotary drl f/4745' t/ 5587', 22-32k wob, 40-65 rpm, 470-530 gpm, Average 37.4 fph, IROP 21-60 fph, samples 20% -80% sandstone f/3900', average rop last 3 hours 27 fph,
04:30	1.50	06:00	5	COND MUD & CIRC	Prep for bit trip. Send two high visc sweeps, shakers clean. Pull 5 stnds wet, 30 minute flow check,

**FD 06-22-6-19 9/17/2014 06:00 - 9/18/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.00	11:00	6	TRIPS	TOOH, pulled 5 stnds wet, Work tight hole off bottom,
11:00	2.50	13:30	20	DIRECTIONAL WORK	LD reamers, mm and bit. Pick up new mm, scribe tools,
13:30	4.50	18:00	6		TIH, no issues.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill f/5587 t/5840, 10-20K, 40-65rpm wob, 475-500 gpm. 21fph average. 45-100 IROP. 100% sandy limestone. Trip gas 5000 units.
06:00	24.00	06:00			

**FD 06-22-6-19 9/18/2014 06:00 - 9/19/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	Drill f/5848 t/5957, 17-20K, 45-60rpm, 460 - 475 gpm. 13.6 fph average.
14:00	0.50	14:30	7	LUBRICATE RIG	Rig Service
14:30	15.50	06:00	2	DRILL ACTUAL	Rotary drill f/5957' t/6252' 17-24K, 45-67rpm, 460 - 475 gpm. 19 fph average. 13 - 33 IROP. 70% sandy limestone/ 30% shaly limestone.

**FD 06-22-6-19 9/19/2014 06:00 - 9/20/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Drill f/6,252' t/6,420', 20-23K wob, 45-60 rpm. 16.8 AVG ROP, 13-30 IROP.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig Service
16:30	13.50	06:00	2	DRILL ACTUAL	Drill f/6,420' t/6,673', 21-23K wob, 50-65 rpm. 18.3' AVG ROP, 16-45' IROP

**FD 06-22-6-19 9/20/2014 06:00 - 9/21/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Drill f/ 6673' t/6884'. 23K wob, 50-65 rpm. 475 gpm, 18.3' AVG ROP, 16-45' IROP
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	12.00	06:00	2	DRILL ACTUAL	Drill f/6884' t/ 7070'. 23-30K wob, 475 gpm, 55-75 RPM, 15.5 AVG ROP, 13-45 IROP

**FD 06-22-6-19 9/21/2014 06:00 - 9/22/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	2	DRILL ACTUAL	Rotary dri f/7070' t/7072', IROP 4-10 fph, 26-30k wob, 475 gpm, 45-60 rpm, average 17.8 fph last 24 hours, decision made to trip for bit.
06:30	5.00	11:30	5	COND MUD & CIRC	Circ btms up shakers clean, increase density t/trip margin of 9.8 ppg,pull 5 jts wet, flow check, gained 30 bbls in 30 minutes, pulled shaker screen to increase LCM content, pump one full circulation increasing density t/10.1+ in/ 10.2ppg out,lost 70 bbls increasing MW, flow check well dead. Pump dry job.
11:30	6.00	17:30	6	TRIPS	Tooh, tight spots @ 5950' & 5919, rotate thru and then pull thru without rotation. Tooh, flow check @ 4000' & 650', no flow. LD bit & MM.
17:30	2.00	19:30	20	DIRECTIONAL WORK	PU bit & new used MM, scribe tools, down link MWD & repair worn rubber centralizers.
19:30	6.50	02:00	6	TRIPS	Tih, tag tight spot @ 5915', same spot as trip out, work tight hole, packed off briefly, unable to rotate, work pipe free.
02:00	2.50	04:30	3	REAMING	Brk circ, btms up 9.8 ppg in/9.7+ out, full returns, ream tight spot @ 5915'-19', work drill string until able to go thru without rotation or circulation.
04:30	1.50	06:00	6	TRIPS	Tih, wash t/btm, bit @ 6458' at 6:00 am

**FD 06-22-6-19 9/22/2014 06:00 - 9/23/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	3	REAMING	Wash t/btm, no fill, no losses, 9.8 ppg in & out,
07:30	7.50	15:00	2	DRILL ACTUAL	Rotary drl f/7072' t/7078', losing drlg mud @ 1/5 pbm, shaker screens pulled, LCM @ 15%, lost 100 bbbs by 7105', sending high LCM sweeps, healed losses by 7110', drl t/7307', 14-20k wob, 45-60 rpm, 475 gpm, average 31.3 fph, IROP 22-45 fph.
15:00	0.50	15:30	7	LUBRICATE RIG	Rig service
15:30	14.50	06:00	2	DRILL ACTUAL	Rotary drl f/7307' t/ 7811' . Wob 14-22k, 45-60 rpm, 475 gpm, mud losses minimal shaker screens pulled, torque @7600-10,200 ft/lbs drlg. LCM content @ 12% , average rop 34.7 fph.

**FD 06-22-6-19 9/23/2014 06:00 - 9/24/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53718	UT	Uintah	Fort Duchesne	COMPLETION	9,351.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Rotary drl f/7811' t/ 8361'. 18-24k wob, 50-65 rpm, 475-500 gpm, reduce circulating rate to control seepage, torque 8500- 10,300 ft/lbs max torque on top drive. Average 47.8 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service
18:00	12.00	06:00	2	DRILL ACTUAL	Rotary drl f/8361' t/8787'. 18-22k wob, 480 gpm, 60-70 rpm, torque7200-10,200 ft/lbs. Minimum seepage, LCM content @ 17%, average rop 35.5 fph.

**FD 06-22-6-19 9/24/2014 06:00 - 9/25/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53718	UT	Uintah	Fort Duchesne	COMPLETION	9,351.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	2	DRILL ACTUAL	DRILL ACTUAL F/8787'-T/8952' - 165', 18.3 FT/HR, WOB=25K, RPM=62, 475GPM, 2430 PSI
15:00	0.50	15:30	7	LUBRICATE RIG	RIG SERVICE
15:30	14.50	06:00	2	DRILL ACTUAL	DRILL ACTUAL F/8952' T/9205' - 253', 17.4 FT/HR, WOB=30K, 60-65RPM, 445GPM, 2240 PSI

**FD 06-22-6-19 9/25/2014 06:00 - 9/26/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53718	UT	Uintah	Fort Duchesne	COMPLETION	9,351.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	DRILL ACTUAL F/9205 T/ 9351=TD - 146'@17.1 FT/HR WOB=29K, 72RPM, 444GPM. 2120PSI
14:30	2.50	17:00	5	COND MUD & CIRC	PUMPED SWEEP, CIRCULATE, FLOW CHECK=5GPM, PULL 5 JNTS, FLOW CHECK/NO FLOW, CLEAR PIPE W/ 100 BBLS CLEAN MUD, PUMP 30 BBL 11.5 DRY JOB,
17:00	6.00	23:00	6	TRIPS	SHORT TRIP TO 5500',
23:00	2.50	01:30	5	COND MUD & CIRC	PUMPED SWEEP, CIRCULATE, FLOW CHECK=5GPM, PULL 5 JNTS, FLOW CHECK/NO FLOW, CLEAR PIPE W/ 100 BBLS CLEAN MUD, PUMP 30 BBL 11.5 DRY JOB,
01:30	4.50	06:00	6	TRIPS	TOOH FOR CASING LDDP/DIR TOOLS

**FD 06-22-6-19 9/26/2014 06:00 - 9/27/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53718	UT	Uintah	Fort Duchesne	COMPLETION	9,351.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	TOOH, LDDP TO SURFACE CASING
08:30	1.50	10:00	9	CUT OFF DRILL LINE	SLIP & CUT 250' DRLNG LINE
10:00	1.00	11:00	6	TRIPS	TOOH LDDP
11:00	1.50	12:30	20	DIRECTIONAL WORK	LD DIR TOOLS, MM, BIT
12:30	0.50	13:00	21	PULL WEAR BUSHING	PULL WEAR BUSHING
13:00	0.50	13:30	7	LUBRICATE RIG	RIG SERVICE
13:30	2.00	15:30	8	REPAIR RIG	X/O HOSES ON SWIVEL, GAUGE, BOOM PUMP, PRESSURE GAUGES. BREAK DOWN TO DRIVE FOR INSPECTION.
15:30	6.50	22:00	12	RUN CASING & CEMENT	R/U AND RUN 204 JOINTS- 9341' OF 5 1/2", 17#, I80, LTC W/ 2 MARKERS AND 88 CENTRALIZERS -
22:00	1.00	23:00	5	COND MUD & CIRC	FILL PIPE, CIRCULATE BOTTOMS UP AT 4,500'

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
23:00	1.50	00:30	12	RUN CASING & CEMENT	CONTINUE RUNNING CASING
00:30	1.00	01:30	5	COND MUD & CIRC	FILL PIPE AND CIRCULATE BOTTOMS UP AT 6,500'
01:30	2.50	04:00	12	RUN CASING & CEMENT	CONTINUE RUNNING CASING
04:00	2.00	06:00	5	COND MUD & CIRC	CIRCULATE 2 FULL CIRCULATIONS WHILE RECIROCATING PIPE

**FD 06-22-6-19 9/27/2014 06:00 - 9/28/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	5	COND MUD & CIRC	CIRCULATE AND RECIPRICATE PIPE, WAIT ON HALLIBURTON, WASH DOWN LANDING JOINT
09:00	5.00	14:00	12	RUN CASING & CEMENT	Held pre job safety meeting w/Halliburton. Pressure test lines to 5,000psi, Pump 30 bbls Tuned spacer, 20 bbl fresh water spacer, 30 bbls Super Flush, 20bbl fresh water spacer. Mix & pump 570 sx lead cmt, 238 bbls @ 11ppg, 750 sx tail cmt, 194 bbls slurry @ 13.5 ppg. Drop plug, displace w/215 bbls fresh water w/biocide & Claweb. Bump plug @2100 psi increase t/2600 . Ck floats, floats held, Got 2 bbls back, No cement to surface lost returns slowed to about half the rate we were pumping. Slowed to 5 bpm @ 160 bbls displacement away. R/D Halliburton.
14:00	4.00	18:00	14	NIPPLE UP B.O.P	SET PACKOFF, NIPPLE DOWN, CLEAN MUD TANKS, RIG RELEASE @ 18:00 HRS.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# CAPSTAR 328  
Submitted By Jody South Phone Number 303-353-5425  
Well Name/Number FD FEDERAL 6-22-6-19  
Qtr/Qtr SENW Section 22 Township 6S Range 19E  
Lease Serial Number UTU85589  
API Number 43047537180000

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

Date/Time 09-26-2014 7:00 AM  PM

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

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

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

BOPE

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

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

Remarks RUN 5 1/2" PROD. CASING AND CEMENT

\_\_\_\_\_

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> UTU85589
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 Federal 6-22-6-19	
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP	<b>9. API NUMBER:</b> 43047537180000	
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202	<b>PHONE NUMBER:</b> 303 312-8134 Ext	<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S	<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: 10/24/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <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.		
THIS WELL HAD FIRST PRODUCTION ON 10/24/2014 AND FIRST GAS SALES ON 10/25/2014.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 27, 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> 10/27/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU85589																														
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<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: 10/31/2014	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<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"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; padding: 10px;"> <p>October 2014 monthly drilling activity report is attached</p> <div style="text-align: right; margin-top: 20px;"> <p><b>Accepted by the Utah Division of Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>November 04, 2014</p> </div> </div>																																
<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> 11/4/2014																															

**FD 06-22-6-19 10/2/2014 06:00 - 10/3/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	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	IWHD	Install Wellhead	Fabrizio Trucking cleaned cellar. Cameron ND 11-1/16 5M night cap. Prep casing stub. NU 11-1/16 5M x 7-1/16 5M x 2-1/16 5M tubing head. Torque bolts. Psi up on "PE" seal to 5000#, and held for 10 minutes. Test void to 5000#, for 10 minutes. Good test. NU 7-1/16 5M night cap.

**FD 06-22-6-19 10/5/2014 06:00 - 10/6/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	LOGG	Logging	MIRU HES. HSM. RUN 4.64" GR/JB TO TAG FILL AT 9211', DRLG SHOWS FC AT 9248' (HAVE 37' FILL). LOG SHOWS CMT-- TD-8600' GOOD, 8600'-7500' FAIR, 7500'-6050' FAIR, 6050'-3300 FAIR. EST TOC 3300' MARKER JTS AT 7782'-7806' AND 8443'-8467'. LOGGED WITH OUT PRESSURE. RDMO HES.
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 06-22-6-19 10/15/2014 06:00 - 10/16/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 6200 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.

**FD 06-22-6-19 10/17/2014 06:00 - 10/18/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	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	SPOTTED 5 MORE 500BBL TANKS ON LOC MAKING A TOTAL OF 44 TANKS ON LOC. TANKS WILL BE FULL BY THIS EVENING.

**FD 06-22-6-19 10/19/2014 06:00 - 10/20/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE TO 70*

**FD 06-22-6-19 10/20/2014 06:00 - 10/21/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	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	1.50	08:30	SRIG	Rig Up/Down	MIRU CUTTERS WITH 5" 10K LUBE AND EQUIP.
08:30	1.00	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 60 PSI. RIH AND CORRELATE TO SJ AT 7782'-7806' & 8443'-8467'. RUN DOWN AND PERF UTELAND BUTTE FORM 8818'-9099' WITH 57 HOLES IN 19' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:30	3.50	13:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE

**FD 06-22-6-19 10/21/2014 06:00 - 10/22/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA, OVER HEAD LOADS, PICKING UP LAYING DOWN GUNS.
06:45	2.75	09:30	FRAC	Frac. Job	<p>FRAC STG 1            PRESSURE TEST LINES TO 7300 PSI.            OPEN WELL W/ 100 PSI AT 6:45 AM            BREAK DOWN 3106 PSI AT 5.7 BPM.            PMP 3900 GAL 15% HCL ACID W/ 114 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2230 PSI.            FLUSH W/ 8610 GAL. 30.3 BPM AT 3130 PSI. BALL OUT, SHUT DOWN PMP.            SURGE 3X. BRING RATE UP TO 35 BPM LET RATE AND PSI LINE OUT MAKE 4 DROPS IN RATE TO 0. WATCH WELL PSI FOR 45 MINS.</p> <p>STAGE FR PAD. STABLE RATE OF 34.5 BPM AT 3144 PSI. ISDP 2216 . FG .68.            PERFS OPEN 18/57</p> <p>"WHEN STAGING TO 1.5-2.0LB RAMP TREATER HARD ENTERED 2.0LB WHEN SLUG HIT PERFS SEEN SIGNIFICANT PSI INCREASE HAD TO FINISH STG AT .5LB GRADUALLY WALKING SAND BACK UP TO .7LB"</p> <p>ISIP 2590 , FG .72, MR 70.1 BPM, AR 65.8 BPM, MP 5842 PSI, AP 4521 PSI            100 MESH 8,000 LBS 0.75PPG            30/50 WHITE 150,000 lbs 0.5-1.5 &amp; 1.5-2.0 ppg            SLK WTR 5654 BBL, BTR 5970 BBLs.</p> <p>STAGE SCORE 7</p> <p>SHUT IN AND TURN OVER TO CUTTERS</p>
09:30	2.50	12:00	PFRT	Perforating	<p>PERF STG #2- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2700 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7782'-7806' &amp; 8443'-8467'. RUN DOWN AND SET 5-1/2" CBP AT 8794' WITH 2600 PSI. PULL UP AND PERF CASTLE PEAK/BSF FORM 8493'-8762' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2390 PSI.</p> <p>"TRYING TO EQUALIZE LUBRICATOR THE JOINT ABOVE BOP WAS LEAKING HAD TO BLEED OFF PSI, LAY DOWN GUNS AND 1 JOINT OF LUBE PUT NEW O-RINGS IN. CALLED SUPPLIER HAD WRONG SIZE OF O-RINGS CAUSING THE PIN END OF LUBRICATOR TO CUT O-RINGS AS PUTING LUBE INTO BOX END OF LUBRICATOR"</p> <p>TURN WELL OVER TO HES.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	3.00	15:00	FRAC	Frac. Job	<p>FRAC STG 2            PRESSURE TEST LINES TO 7300 PSI.            OPEN WELL W/ 2386 PSI AT 12:05            BREAK DOWN 3325 PSI AT 5.7 BPM.            PMP 3900 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2697 PSI.            FLUSH W/ 8293 GAL. 29.4 BPM AT 3375 PSI. BALL OUT, SHUT DOWN PMP.            SURGE 3X. BRING RATE UP TO 35 BPM LET RATE AND PSI LINE OUT MAKE 4 DROPS IN RATE TO 0. WATCH WELL PSI FOR 45 MINS.</p> <p>STAGE FR PAD. STABLE RATE OF 34.3 BPM AT 3570 PSI. ISDP 2750 . FG .75.            PERFS OPEN 19/45</p> <p>"PSI STARTED COMING UP AS 0.8LB HIT FORMATION. DROPPED RATE AND SAND CONCENTRATION. RAN A 25LB GEL SWEEP, LOWERED PSI. RESUMED SAND AT 0.5 AND WORKED GRADUALLY BACK UP TO 0.8LB BEFORE FLUSHING WELL"            REDESIGNING STGS 3 &amp; 4 FOR TOMORROW BBC ENGINEER PRESENT ON LOC"</p> <p>ISIP 2984 , FG .78, MR 70.5 BPM, AR 63.9 BPM, MP 5844 PSI, AP 4763 PSI            100 MESH 9,000 LBS 0.75PPG            30/50 WHITE 84,200 lbs 0.5-1.5 &amp; 1.5-2.0 ppg            SLK WTR 5627 BBL, BTR 5940 BBLs.</p> <p>STAGE SCORE 9.5.</p> <p>SHUT IN AND TURN OVER TO CUTTERS</p>
15:00	1.25	16:15	PFRT	Perforating	<p>PERF STG #3- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2750 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7782'-7806'.            RUN DOWN AND SET 5-1/2" CBP AT 8479' WITH 2700 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8198'-8459' WITH 45 HOLES IN 15' NET.            POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2700 PSI. TURN WELL OVER TO HES.</p> <p>SDFN</p>
16:15	1.00	17:15	CTRL	Crew Travel	CREW TRAVEL
17:15	12.75	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 06-22-6-19 10/22/2014 06:00 - 10/23/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.75	06:45	SMTG	Safety Meeting	AOL 05:00. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, MUSTER AREA, OVER HEAD LOADS, PICKING UP LAYING DOWN GUNS.



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:45	2.59	09:20	FRAC	Frac. Job	<p>FRAC STG 3            PRESSURE TEST LINES TO 9200 PSI.            OPEN WELL W/ 2365 PSI AT 6:45 AM            BREAK DOWN 3223 PSI AT 9.8 BPM.            PMP 3900 GAL 15% HCL ACID W/156 BIO BALLS FOR DIVERSION. 10 BPM AT 2750 PSI.            FLUSH W/ 8005 GAL. 30 BPM AT 3525 PSI. BALL OUT, SHUT DOWN PMP. SURGE 3X. BRING RATE UP TO 35 BPM LET RATE AND PSI LINE OUT MAKE 4 DROPS IN RATE TO 0. WATCH WELL PSI FOR 45 MINS.</p> <p>STAGE FR PAD. STABLE RATE OF 34.3 BPM AT 3908 PSI. ISDP 2802 . FG .77.            PERFS OPEN 26/45</p> <p>ISIP 3282 , FG .83, MR 71.8 BPM, AR 71 BPM, MP 5231 PSI, AP 4732 PSI            100 MESH 8,000 LBS 0.75PPG            30/50 WHITE 138,300 lbs            25#LINEAR 2809 BBLS 0.5-1.7            SLK WTR 2752 BBL, 0.5-1ppg            BTR 5851 BBLS.</p> <p>STAGE SCORE 10.</p> <p>TURN WELL OVER TO CUTTERS</p>
09:20	1.16	10:30	PFRT	Perforating	<p>PERF STG #4- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 3100 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7782'-7806'. RUN DOWN AND SET 5-1/2" CBP AT 8132' WITH 3000 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 7867'-8112' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 700 PSI.</p> <p>TURN WELL OVER TO HES.</p>
10:30	2.75	13:15	FRAC	Frac. Job	<p>FRAC STG 4            PRESSURE TEST LINES TO 7200 PSI.            OPEN WELL W/ 730 PSI AT 10:35 AM            BREAK DOWN 2620 PSI AT 9.8 BPM.            PMP 3900 GAL 15% HCL ACID W/90 BIO BALLS FOR DIVERSION. 10 BPM AT 2380 PSI.            FLUSH W/ 7681 GAL. 29.1 BPM AT 3220 PSI. BALL OUT, SHUT DOWN PMP. SURGE 3X. BRING RATE UP TO 35 BPM LET RATE AND PSI LINE OUT MAKE 4 DROPS IN RATE TO 0. WATCH WELL PSI FOR 45 MINS.</p> <p>STAGE FR PAD. STABLE RATE OF 74.7 BPM AT 4100 PSI. ISDP 2508 . FG .75.            PERFS OPEN 28/45</p> <p>ISIP 2631 , FG .76, MR 74.7 BPM, AR 74.4 BPM, MP 4818 PSI, AP 4100 PSI            100 MESH 8,120 LBS 0.75PPG            30/50 WHITE 150,780 lbs            25# LINEAR 3166 BBLS 0.5-1.75ppg            SLK WTR 2747 BBL 0.5-1.0ppg            BTR 6207 BBLS.</p> <p>STAGE SCORE 10.</p> <p>HES RIGGED DOWN CANDY CANES OFF OF FRAC TREE.</p> <p>SHUT IN AND TURN OVER TO CUTTERS</p>
13:15	1.00	14:15	PFRT	Perforating	<p>KILL PLUG- PU 5-1/2" HES PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 2550 PSI. RIH AND CORRELATE TO SHORT JT 7782'-7806'. SET KILL PLUG AT 7820' WITH 2500 PSI. BLEED OFF AS POOH.</p>
14:15	2.00	16:15	SRIG	Rig Up/Down	RDMO CUTTERS & HES FRAC FLEET
16:15	13.75	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

FD 06-22-6-19 10/23/2014 06:00 - 10/24/2014 06:00

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	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 to location. Service, and start equipment. Safety meeting. Fill out JSA.
07:00	0.50	07:30	RMOV	Rig Move	Move rig, and equipment to location.
07:30	2.50	10:00	SRIG	Rig Up/Down	MIRU rig, and drilling equipment. ND frac tree, and NU BOPE stack. RU work floor, and tubing equipment. Set pipe wrangler, and pipe racks.
10:00	2.00	12:00	GOP	General Operations	Unload 296 jts of new tubing.
12:00	3.00	15:00	RUTB	Run Tubing	Make-up BHA. PU, and single in hole.
15:00	0.50	15:30	SRIG	Rig Up/Down	PU/RU power swivel. Psi test to 2000#.
15:30	2.00	17:30	DOPG	Drill Out Plugs	Wash sand, and drill CBP's @ 7820', and 8132' w/ 14' of sand. Circulate clean. RD power swivel. Secure tubing. Left casing open for clean-up.
17:30	1.00	18:30	CTRL	Crew Travel	Crew travel to yard.
18:30	11.50	06:00	GOP	General Operations	Flowing well up annulus, to production equipment.

**FD 06-22-6-19 10/24/2014 06:00 - 10/25/2014 06:00**

API 43-047-53718	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,351.0	Primary Job Type Drilling & Completion
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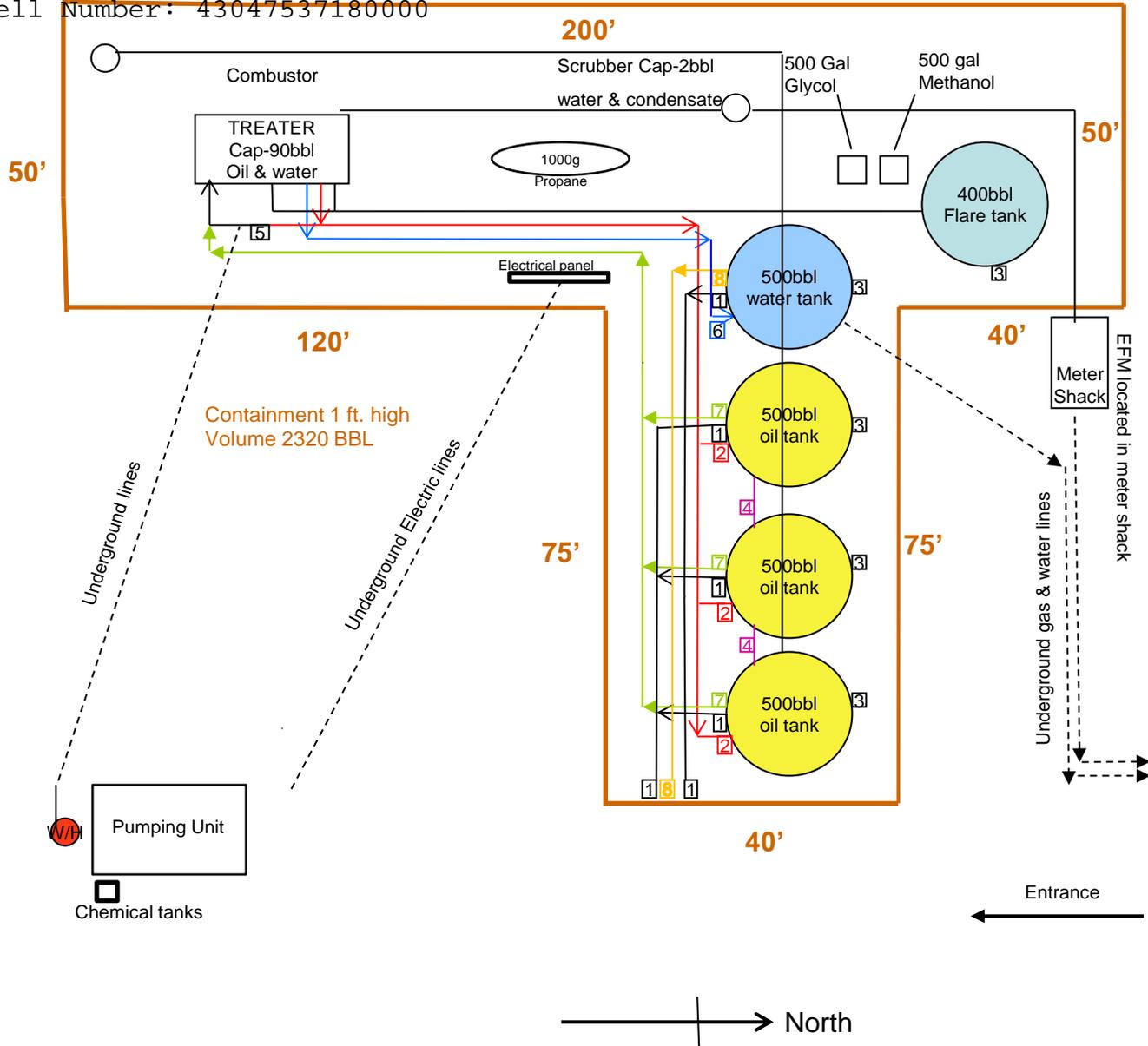
**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	FCP- 1450# on a 16/64 choke. Crew travel to location. Service, and start equipment. Safety meeting. Fill out JSA.
07:00	3.00	10:00	DOPG	Drill Out Plugs	PU, and single in hole with 10 jts. Tag sand fill @ 8469'. Wash sand to, and drill CBP #3 @ 8479'. FCP- 1500# on a 28/64 choke. PU, and single in hole with 10 jts. Tag sand fill @ 8767'. Wash sand to, and drill CBP #4 @ 8782'. FCP- 1400# on a 28/64 choke. PU, and tag sand fill @ 9104'. Drill F/C at 9248'. Drill out shoe jt to 9287' (PBSD).
10:00	0.50	10:30	CLN	Clean Out Hole	RD power swivel. Circulate clean w/ 30 bbls fluid.
10:30	0.50	11:00	PULT	Pull Tubing	LD 48 jts, to landing depth. Production string is as follows: K.B.- 13' Hanger- 0.85' 243 jts of 2-7/8 L-80 tubing 7722.17' Drain sub- 1.00' 1 jt 2-7/8 tubing- 31.77' Float sub- 1.12' Bit sub- 0.88' Mill tooth bit- 0.40' EOT @ 7771.9'
11:00	1.50	12:30	SRIG	Rig Up/Down	Lubricate hanger, and land. (Took 3 rubbers). Swap out BOPE stack. RD tubing equipment, and work floor. ND BOPE stack. NU tree. NU choke line.
12:30	1.50	14:00	SRIG	Rig Up/Down	Drop bar, and take well to sales, thru sand trap. FTP- 1600# on a 16/64 choke. SICP- 1650#.
14:00	1.50	15:30	SRIG	Rig Up/Down	RD, and package. Stack out on 9-10-3-2 FD.
15:30	1.00	16:30	CTRL	Crew Travel	Crew travel to yard.
16:30	13.50	06:00	GOP	General Operations	Flowing to production, thru sand trap with KTI monitoring well.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU85589
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>  <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 Federal 6-22-6-19
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537180000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S		<b>9. FIELD and POOL or WILDCAT:</b> UNDESIGNATED
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S		<b>COUNTY:</b> UINTAH
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1770 FNL 0942 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SENW Section: 22 Township: 06.0S Range: 19.0E Meridian: S		<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 type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<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"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text" value="SSD"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. ATTACHED PLEASE FIND THE SITE FACILITY DIAGRAM/SITE SECURITY.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          November 10, 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> 11/5/2014	

**BILL BARRETT CORPORATION**  
 FD Federal 6-22-6-19  
 Lot 8, SENW SEC.22,T6S, R19E,  
 Lease # UTU 89382  
 API # 43-047-53718  
 Uintah Co. Utah

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



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

Surface Drainage to South into dry drainages. Irrigation pond ¼ mile to South.

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

Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

5. Lease Serial No.  
UTU85589

1a. Type of Well  Oil Well  Gas Well  Dry  Other

b. Type of Completion  New Well  Work Over  Deepen  Plug Back  Diff. Resvr.  
Other \_\_\_\_\_

2. Name of Operator: BILL BARRETT CORPORATION Contact: CHRISTINA HIRTLER E-Mail: chrtiler@billbarrettcorp.com

3. Address: 1099 18TH STREET SUITE 2300 DENVER, CO 80202 3a. Phone No. (include area code) Ph: 303-312-8597

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*  
At surface: Sec 22 T6S R19E Mer UBM SENW 1770FNL 942FWL  
At top prod interval reported below: SENW 1740FNL 949FWL  
At total depth: SENW 1757FNL 967FWL

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. FD FEDERAL 6-22-6-19

9. API Well No. 43-047-53718

10. Field and Pool, or Exploratory WILDCAT

11. Sec., T., R., M., or Block and Survey or Area Sec 22 T6S R19E Mer UBM

12. County or Parish UINTAH COUNTY 13. State UT

14. Date Spudded 09/09/2014 15. Date T.D. Reached 09/25/2014 16. Date Completed 10/24/2014  D & A  Ready to Prod.

17. Elevations (DF, KB, RT, GL)\* 5118 GL

18. Total Depth: MD 9351 TVD 9350 19. Plug Back T.D.: MD 9249 TVD 9248 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) MUD,CBL,TRIPLE COMBO

22. Was well cored?  No  Yes (Submit analysis)  
Was DST run?  No  Yes (Submit analysis)  
Directional Survey?  No  Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	16.000 COND	65.0		80	80				
12.250	8.625 J-55	24.0		1240	1235	490	168		
7.875	5.500 N-80	17.0		9341	9351	1320	432	3064	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	9163							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	7867	9100	7867 TO 9100	0.380	192	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
7867 TO 9100	GREEN RIVER SEE STAGES 1-4

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/24/2014	10/27/2014	24	→	135.0	26.0	780.0	32.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
36/64	SI 110	350.0	→	135	26	780	193	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #281379 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\***

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas(Sold, used for fuel, vented, etc.)  
SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	5533
				MAHOGANY	6680
				TGR3	7861
				DOUGLAS CREEK	8009
				BLACK SHALE FACIES	8487
				CASTLE PEAK	8574
				UTELAND BUTTE	8816
				WASATCH	9270

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL, Conductor was cemented with grout. Attaches is the treatment data and logs. First gas was on 10/25/2014, first oil sales 10/31/2014.

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #281379 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) CHRISTINA HIRTLER Title PERMIT ANALYST

Signature (Electronic Submission) Date 11/24/2014

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***

**FD 6-22-6-19 Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<b><u>Stage</u></b>	<b><u>bbls Slurry</u></b>	<b><u>Common White 100 Mesh</u></b>	<b><u>lbs 30/50 Premium White</u></b>	<b><u>gal 15% HCl Acid</u></b>
1	5970	7900	150000	4400
2	5940	9000	84,200	3900
3	5851	8000	138300	3900
4	6207	8120	150780	3400

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



**Payzone Directional**  
End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<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 22 T6S, R19E		
<b>Site Position:</b>		<b>Northing:</b>	11,162,667.08 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,125,594.63 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	40° 16' 42.740 N
		<b>Longitude:</b>	109° 45' 45.430 W
		<b>Grid Convergence:</b>	1.06 °

<b>Well</b>	FD 6-22-6-19, SHL: 40° 17' 9.510 -109° 46' 12.370					
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>	11,165,339.33 usft	<b>Latitude:</b>	40° 17' 9.510 N
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>	2,123,454.93 usft	<b>Longitude:</b>	109° 46' 12.370 W
<b>Position Uncertainty</b>		0.0 usft	<b>Wellhead Elevation:</b>	5,131.0 usft	<b>Ground Level:</b>	5,118.0 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	9/12/2014	10.81	65.97	52,123

<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	62.42

<b>Survey Program</b>	<b>Date</b>	9/30/2014		
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
176.0	9,351.0	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 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<b>North Reference:</b>	True
<b>Wellbore:</b>	Wellbore #1	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	Actual	<b>Database:</b>	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
176.0	0.31	306.61	176.0	-0.2	0.3	-0.4	0.18	0.18	0.00	
238.0	0.31	276.15	238.0	-0.4	0.4	-0.7	0.26	0.00	-49.13	
299.0	0.48	279.45	299.0	-0.8	0.5	-1.1	0.28	0.28	5.41	
359.0	0.34	279.12	359.0	-1.1	0.5	-1.5	0.23	-0.23	-0.55	
420.0	0.35	277.12	420.0	-1.4	0.6	-1.9	0.03	0.02	-3.28	
511.0	0.44	254.31	511.0	-2.0	0.5	-2.5	0.20	0.10	-25.07	
603.0	0.40	249.17	603.0	-2.6	0.3	-3.1	0.06	-0.04	-5.59	
687.0	0.22	226.71	687.0	-3.1	0.1	-3.5	0.25	-0.21	-26.74	
772.0	0.31	255.15	772.0	-3.5	-0.1	-3.9	0.18	0.11	33.46	
856.0	0.53	252.90	856.0	-4.1	-0.2	-4.5	0.26	0.26	-2.68	
940.0	0.48	233.17	940.0	-4.8	-0.6	-5.1	0.21	-0.06	-23.49	
1,025.0	0.62	231.85	1,025.0	-5.6	-1.1	-5.8	0.17	0.16	-1.55	
1,109.0	0.57	215.99	1,109.0	-6.4	-1.7	-6.4	0.20	-0.06	-18.88	
1,172.0	0.57	238.49	1,172.0	-7.0	-2.1	-6.8	0.35	0.00	35.71	
1,361.0	0.80	184.85	1,361.0	-8.7	-3.9	-7.7	0.34	0.12	-28.38	
1,445.0	0.40	22.02	1,445.0	-8.8	-4.2	-7.7	1.41	-0.48	-193.85	
1,530.0	1.19	15.15	1,529.9	-7.9	-3.1	-7.3	0.93	0.93	-8.08	
1,614.0	1.19	9.45	1,613.9	-6.8	-1.4	-7.0	0.14	0.00	-6.79	
1,698.0	1.19	19.95	1,697.9	-5.6	0.3	-6.5	0.26	0.00	12.50	
1,782.0	1.02	345.43	1,781.9	-4.8	1.8	-6.4	0.80	-0.20	-41.10	
1,867.0	1.02	337.06	1,866.9	-4.6	3.3	-6.9	0.18	0.00	-9.85	
1,951.0	1.28	351.42	1,950.9	-4.2	4.9	-7.3	0.46	0.31	17.10	
2,035.0	1.19	344.33	2,034.8	-3.7	6.6	-7.7	0.21	-0.11	-8.44	
2,120.0	1.81	4.56	2,119.8	-2.9	8.8	-7.8	0.95	0.73	23.80	
2,204.0	1.50	3.94	2,203.8	-1.6	11.3	-7.6	0.37	-0.37	-0.74	
2,288.0	1.41	5.75	2,287.8	-0.4	13.4	-7.5	0.12	-0.11	2.15	



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<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)
2,372.0	1.50	10.85	2,371.7	0.8	15.5	-7.2	0.19	0.11	6.07
2,457.0	1.19	359.05	2,456.7	1.9	17.5	-7.0	0.49	-0.36	-13.88
2,541.0	1.28	5.35	2,540.7	2.8	19.3	-6.9	0.19	0.11	7.50
2,626.0	1.02	15.23	2,625.7	3.8	20.9	-6.6	0.38	-0.31	11.62
2,710.0	0.80	2.84	2,709.7	4.6	22.2	-6.4	0.35	-0.26	-14.75
2,794.0	0.80	29.95	2,793.7	5.4	23.3	-6.1	0.45	0.00	32.27
2,878.0	0.71	30.35	2,877.6	6.4	24.3	-5.5	0.11	-0.11	0.48
2,963.0	0.62	39.82	2,962.6	7.2	25.1	-4.9	0.17	-0.11	11.14
3,047.0	0.71	33.83	3,046.6	8.1	25.9	-4.4	0.14	0.11	-7.13
3,131.0	0.80	36.74	3,130.6	9.1	26.8	-3.7	0.12	0.11	3.46
3,216.0	0.80	41.15	3,215.6	10.2	27.7	-3.0	0.07	0.00	5.19
3,300.0	0.71	50.36	3,299.6	11.3	28.5	-2.2	0.18	-0.11	10.96
3,384.0	0.62	67.32	3,383.6	12.2	29.0	-1.4	0.26	-0.11	20.19
3,468.0	0.71	74.95	3,467.6	13.2	29.3	-0.4	0.15	0.11	9.08
3,553.0	0.62	95.92	3,552.6	14.1	29.4	0.5	0.30	-0.11	24.67
3,637.0	0.62	128.93	3,636.6	14.6	29.1	1.3	0.42	0.00	39.30
3,722.0	0.49	6.45	3,721.6	15.0	29.1	1.7	1.15	-0.15	-144.09
3,806.0	0.49	39.43	3,805.6	15.6	29.8	2.0	0.33	0.00	39.26
3,890.0	0.80	14.13	3,889.6	16.3	30.6	2.4	0.49	0.37	-30.12
3,975.0	1.28	1.25	3,974.6	17.1	32.1	2.5	0.62	0.56	-15.15
4,059.0	1.19	350.72	4,058.5	17.9	33.9	2.4	0.29	-0.11	-12.54
4,143.0	1.19	345.04	4,142.5	18.3	35.6	2.0	0.14	0.00	-6.76
4,228.0	1.19	347.02	4,227.5	18.7	37.4	1.6	0.05	0.00	2.33
4,312.0	1.19	351.25	4,311.5	19.2	39.1	1.3	0.10	0.00	5.04
4,396.0	1.02	346.84	4,395.5	19.7	40.7	1.0	0.23	-0.20	-5.25
4,481.0	0.88	345.26	4,480.5	20.0	42.0	0.6	0.17	-0.16	-1.86
4,565.0	0.71	351.95	4,564.5	20.4	43.2	0.4	0.23	-0.20	7.96



## Payzone Directional

### End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<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)
4,649.0	0.71	354.82	4,648.4	20.7	44.2	0.3	0.04	0.00	3.42
4,734.0	0.49	358.83	4,733.4	21.1	45.1	0.2	0.26	-0.26	4.72
4,818.0	0.31	4.65	4,817.4	21.4	45.7	0.2	0.22	-0.21	6.93
4,902.0	0.31	359.75	4,901.4	21.6	46.1	0.3	0.03	0.00	-5.83
4,987.0	0.09	74.86	4,986.4	21.8	46.4	0.3	0.35	-0.26	88.36
5,071.0	1.02	352.35	5,070.4	22.1	47.1	0.3	1.21	1.11	-98.23
5,155.0	1.02	0.15	5,154.4	22.7	48.6	0.2	0.17	0.00	9.29
5,240.0	0.71	7.73	5,239.4	23.3	49.9	0.3	0.39	-0.36	8.92
5,324.0	0.40	19.55	5,323.4	23.9	50.7	0.4	0.39	-0.37	14.07
5,408.0	0.31	52.03	5,407.4	24.3	51.1	0.7	0.26	-0.11	38.67
5,493.0	0.31	88.65	5,492.4	24.7	51.3	1.1	0.23	0.00	43.08
5,567.0	0.40	139.46	5,566.4	25.0	51.1	1.5	0.43	0.12	68.66
5,652.0	0.49	123.55	5,651.4	25.2	50.6	2.0	0.18	0.11	-18.72
5,736.0	0.62	128.17	5,735.4	25.6	50.2	2.6	0.16	0.15	5.50
5,820.0	0.71	138.62	5,819.4	25.9	49.5	3.3	0.18	0.11	12.44
5,905.0	0.71	178.24	5,904.4	25.8	48.6	3.7	0.57	0.00	46.61
5,989.0	0.71	187.76	5,988.4	25.2	47.5	3.7	0.14	0.00	11.33
6,073.0	1.10	194.85	6,072.4	24.4	46.2	3.4	0.48	0.46	8.44
6,158.0	1.19	195.16	6,157.4	23.3	44.6	2.9	0.11	0.11	0.36
6,242.0	1.99	208.16	6,241.3	21.5	42.5	2.0	1.04	0.95	15.48
6,326.0	2.12	204.72	6,325.3	19.0	39.8	0.7	0.21	0.15	-4.10
6,411.0	1.19	209.22	6,410.2	17.0	37.6	-0.4	1.10	-1.09	5.29
6,495.0	0.88	196.75	6,494.2	15.9	36.2	-1.0	0.45	-0.37	-14.85
6,579.0	0.80	168.94	6,578.2	15.2	35.0	-1.1	0.49	-0.10	-33.11
6,664.0	0.62	182.03	6,663.2	14.8	34.0	-1.0	0.28	-0.21	15.40
6,748.0	0.31	139.55	6,747.2	14.7	33.3	-0.9	0.53	-0.37	-50.57
6,832.0	0.31	102.44	6,831.2	14.9	33.1	-0.5	0.23	0.00	-44.18



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<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)
6,917.0	0.31	93.54	6,916.2	15.3	33.0	0.0	0.06	0.00	-10.47
7,001.0	0.40	130.03	7,000.2	15.6	32.8	0.4	0.28	0.11	43.44
7,087.0	0.40	129.85	7,086.2	15.8	32.5	0.9	0.00	0.00	-0.21
7,171.0	0.31	114.25	7,170.2	16.1	32.2	1.3	0.16	-0.11	-18.57
7,255.0	0.40	113.33	7,254.2	16.4	32.0	1.8	0.11	0.11	-1.10
7,340.0	0.31	115.22	7,339.2	16.7	31.7	2.3	0.11	-0.11	2.22
7,424.0	0.40	108.83	7,423.2	17.0	31.6	2.7	0.12	0.11	-7.61
7,508.0	0.62	104.43	7,507.2	17.6	31.3	3.5	0.27	0.26	-5.24
7,593.0	0.62	112.45	7,592.2	18.2	31.1	4.3	0.10	0.00	9.44
7,677.0	0.62	109.76	7,676.2	18.8	30.7	5.2	0.03	0.00	-3.20
7,761.0	0.70	117.56	7,760.2	19.4	30.3	6.1	0.14	0.10	9.29
7,845.0	0.80	132.15	7,844.2	19.9	29.7	7.0	0.26	0.12	17.37
7,930.0	0.71	137.35	7,929.2	20.3	28.9	7.8	0.13	-0.11	6.12
8,014.0	1.02	142.46	8,013.1	20.5	27.9	8.6	0.38	0.37	6.08
8,099.0	1.02	121.66	8,098.1	21.0	26.9	9.7	0.43	0.00	-24.47
8,183.0	1.10	116.63	8,182.1	21.9	26.2	11.0	0.15	0.10	-5.99
8,267.0	1.10	117.34	8,266.1	22.8	25.5	12.5	0.02	0.00	0.85
8,351.0	1.10	117.12	8,350.1	23.8	24.7	13.9	0.01	0.00	-0.26
8,436.0	1.10	116.15	8,435.1	24.7	24.0	15.4	0.02	0.00	-1.14
8,520.0	1.19	118.75	8,519.1	25.7	23.2	16.8	0.12	0.11	3.10
8,605.0	1.28	116.55	8,604.0	26.7	22.4	18.5	0.12	0.11	-2.59
8,689.0	0.71	156.82	8,688.0	27.2	21.5	19.5	1.03	-0.68	47.94
8,773.0	0.62	145.85	8,772.0	27.2	20.6	20.0	0.19	-0.11	-13.06
8,858.0	0.88	147.92	8,857.0	27.3	19.7	20.6	0.31	0.31	2.44
8,942.0	0.88	146.34	8,941.0	27.5	18.6	21.3	0.03	0.00	-1.88
9,026.0	0.88	135.54	9,025.0	27.7	17.6	22.1	0.20	0.00	-12.86
9,111.0	1.02	157.66	9,110.0	27.8	16.4	22.8	0.46	0.16	26.02



## Payzone Directional

End of Well Report



<b>Company:</b>	Bill Barrett Corporation	<b>Local Co-ordinate Reference:</b>	Well FD 6-22-6-19
<b>Project:</b>	Fort Duchesne	<b>TVD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Site:</b>	SECTION 22 T6S, R19E	<b>MD Reference:</b>	FD 6-22-6-19 @ 5131.0usft (CAPSTAR 328)
<b>Well:</b>	FD 6-22-6-19	<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)
9,195.0	1.02	147.92	9,194.0	27.8	15.1	23.5	0.21	0.00	-11.60
9,299.0	0.88	145.54	9,297.9	28.0	13.7	24.5	0.14	-0.13	-2.29
9,351.0	0.88	145.54	9,349.9	28.1	13.0	24.9	0.00	0.00	0.00

Checked By: \_\_\_\_\_

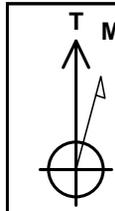
Approved By: \_\_\_\_\_

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

Sundry Number: 58215 API Well Number: 43047537180000

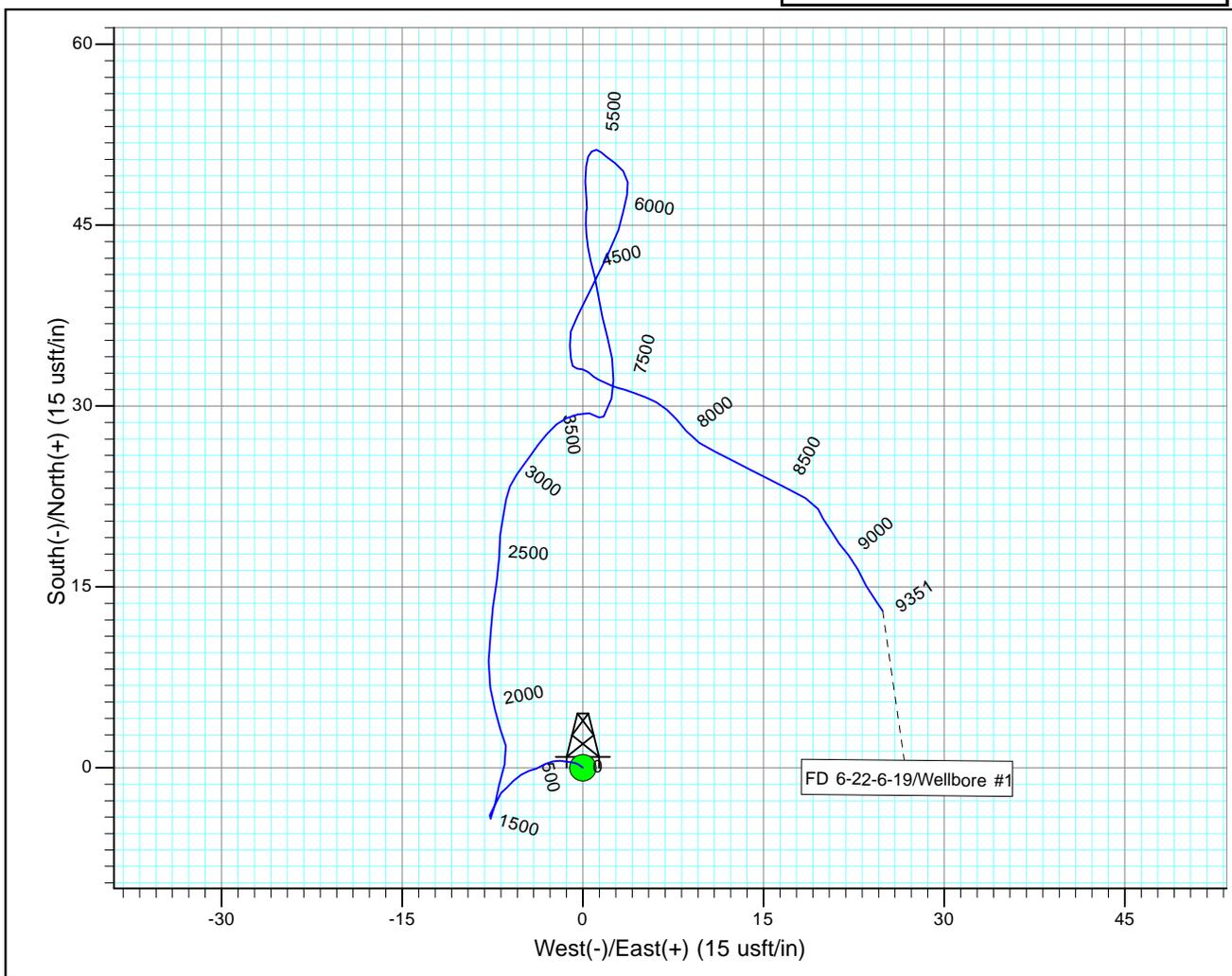
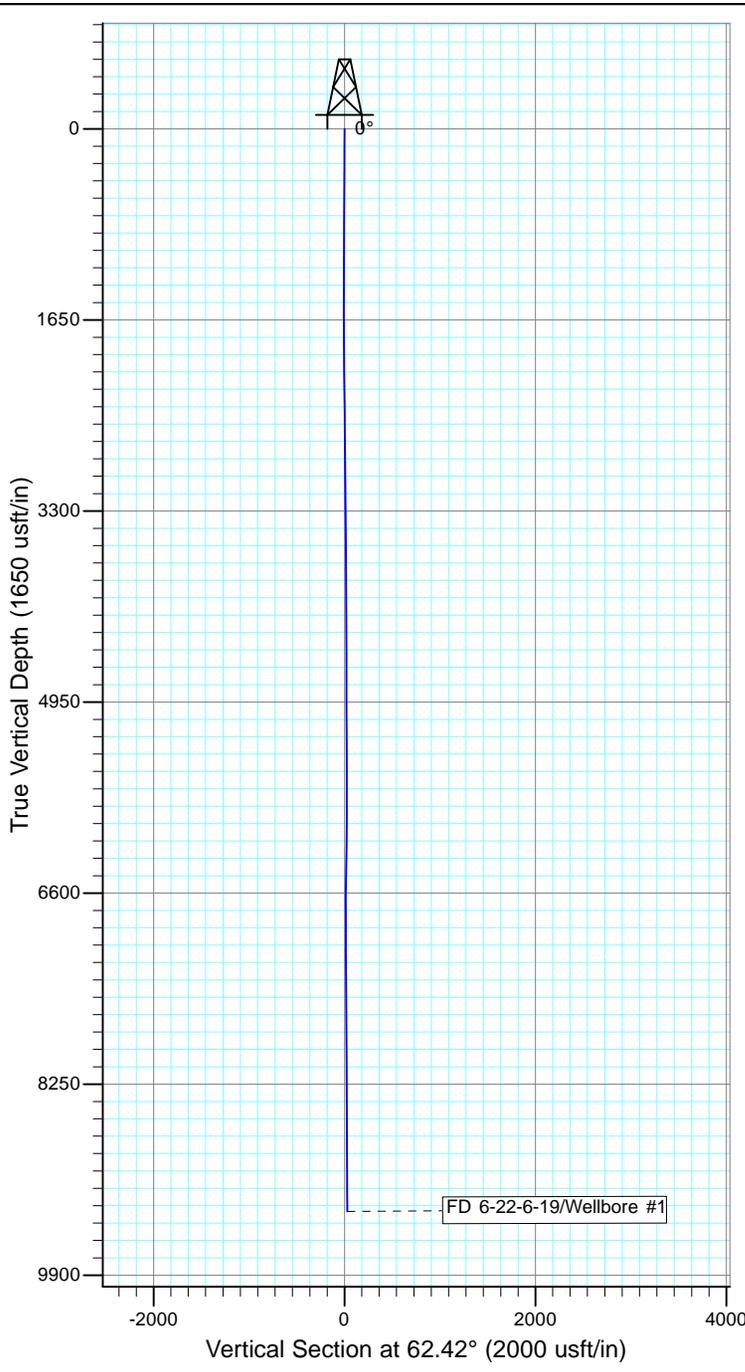


Project: Fort Duchesne  
Site: SECTION 22 T6S, R19E  
Well: FD 6-22-6-19  
Wellbore: Wellbore #1  
Design: Actual



Azimuths to True North  
Magnetic North: 10.81°

Magnetic Field  
Strength: 52123.3snT  
Dip Angle: 65.97°  
Date: 9/12/2014  
Model: IGRF2010



Design: Actual (FD 6-22-6-19/Wellbore #1)

Created By: *Matthew Linton* Date: 8:41, September 30 20

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