

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 12-21-2-2					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR BILL BARRETT CORP						7. OPERATOR PHONE 303 312-8134					
8. ADDRESS OF OPERATOR 1099 18th Street Ste 2300, Denver, CO, 80202						9. OPERATOR E-MAIL tfallang@billbarrettcorp.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') GENE BROWN RANCHES, LC						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-545-2519					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 69 BOX 160, RANDLETT, UT 84063						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input 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		2359 FSL 692 FWL		NWSW	21	2.0 S	2.0 E	U			
Top of Uppermost Producing Zone		2359 FSL 692 FWL		NWSW	21	2.0 S	2.0 E	U			
At Total Depth		2359 FSL 692 FWL		NWSW	21	2.0 S	2.0 E	U			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 690			23. NUMBER OF ACRES IN DRILLING UNIT 660					
27. ELEVATION - GROUND LEVEL 5121			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 9333			26. PROPOSED DEPTH MD: 10357 TVD: 10357					
28. BOND NUMBER LPM4138148			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645								
<b>Hole, Casing, and Cement Information</b>											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
COND	26	16	0 - 80	65.0	Unknown	8.7	No Used		0	0.0	0.0
SURF	12.25	9.625	0 - 1500	36.0	J-55 ST&C	9.4	Halliburton Light , Type Unknown		190	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
PROD	7.875	5.5	0 - 10357	17.0	P-110 LT&C	9.5	Unknown		800	2.31	11.0
							Unknown		430	1.42	13.5
<b>ATTACHMENTS</b>											
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Brady Riley			TITLE Permit Analyst			PHONE 303 312-8115					
SIGNATURE			DATE 05/16/2013			EMAIL briley@billbarrettcorp.com					
API NUMBER ASSIGNED 43047537630000			APPROVAL			 Permit Manager					

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

**FD 12-21-2-2**

NWSW, 2359' FSL and 692' FWL, Section 21, T2S-R2E, USB&M (surface hole)

NWSW, 2359' FSL and 692' FWL, Section 21, T2S-R2E, USB&M (bottom hole)

Uintah County, Utah

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

<b><u>Formation</u></b>	<b><u>Depth – MD/TVD</u></b>
Green River	5,691'
TGR3	7,909'
Douglas Creek	8,067'
Black Shale	8,538'
Castle Peak	8,765'
Uteland Butte	8,886'
Wasatch	9,557'
TD	10,357'

Base of Useable Water = 5011'

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 1500'	No pressure control required
1500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<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	1500'	9 5/8"	36#	J or K 55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

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

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

Bill Barrett Corporation  
 Drilling Program  
 FD 12-21-2-2  
 Uintah County, Utah

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

#### 5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 190 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft <sup>3</sup> /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft <sup>3</sup> /sx), calculated hole volume with 75% excess. TOC @ 1,000'
5 1/2" Production Casing	Lead: 800 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft <sup>3</sup> /sx). TOC @ 1,000' Tail: 430 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 @ 8038'

#### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' - 1500'	8.3 - 8.7	26 - 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
1500' - 5500'	9.2 - 9.4	26 - 36	NC	Freshwater Spud Mud Fluid System
5500' - TD	9.4 - 9.5	42 - 56	25 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

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

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

Bill Barrett Corporation  
Drilling Program  
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**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated botto hole pressure equals approximately 5116 psi\* and maximum anticipated surface pressure equals approximately 2837 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

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

**9. Auxiliary Equipment**

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

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

Water for the drilling and completion will be from:

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

**11. Drilling Schedule**

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



# Bill Barrett Corporation

## AURORA CEMENT VOLUMES

**Well Name:** FD 12-21-2-2

### Surface Hole Data:

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

### Calculated Data:

Lead Volume:	548.1	ft <sup>3</sup>
Lead Fill:	1,000'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

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

### Calculated # of Sacks:

# SK's Lead:	190
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,000'	

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

Total Depth:	10,357'
Top of Cement:	1,000'
Top of Tail:	8,038'
OD of Hole:	7.875"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1829.0	ft <sup>3</sup>
Lead Fill:	7,038'	
Tail Volume:	602.7	ft <sup>3</sup>
Tail Fill:	2,319'	

### 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:	800
# SK's Tail:	430

<b>FD 12-21-2-2 Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1000' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,000'
	Volume: 97.61 bbl
	<b>Proposed Sacks: 190 sks</b>
<b>Tail Cement - (TD - 1000')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,000'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (8038' - 1000')</b>	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,000'
	Calculated Fill: 7,038'
	Volume: 325.74 bbl
	<b>Proposed Sacks: 800 sks</b>
<b>Tail Cement - (10357' - 8038')</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: 8,038'
	Calculated Fill: 2,319'
	Volume: 107.34 bbl
	<b>Proposed Sacks: 430 sks</b>

**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

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

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

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

**C. Testing Procedure:**

Annular Preventer

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

At a minimum the above pressure test will be performed:

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

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

Blow-Out Preventer

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

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

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

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

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

**D. Choke Manifold Equipment:**

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

**E. Accumulator:**

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

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

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

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

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

**F. Miscellaneous Information:**

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

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

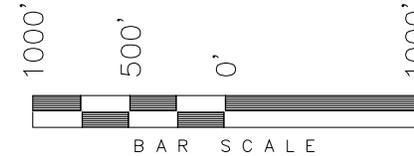
CONFIDENTIAL

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

**BILL BARRETT CORPORATION**

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'

WELL LOCATION, FD #12-21-2-2, LOCATED AS SHOWN IN NW 1/4 SW 1/4 OF SECTION 21, T2S, R2E, U.S.B.&M. UINTAH COUNTY, UTAH.



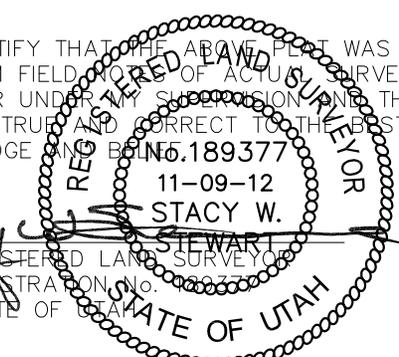
**NOTES:**

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

**WELL LOCATION:  
FD #12-21-2-2**

ELEV. UNGRADED GROUND = 5121.1'

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.



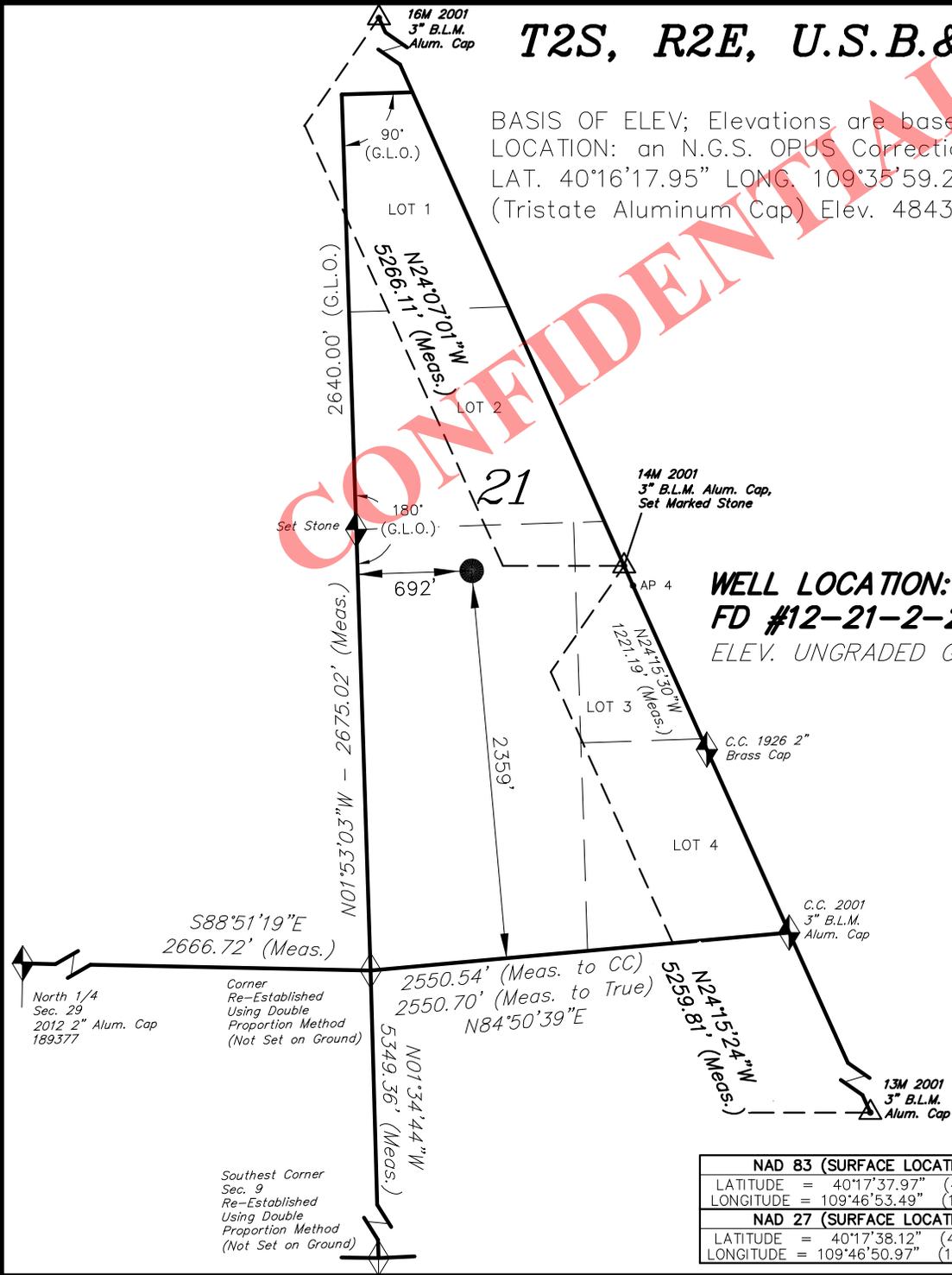
REGISTERED LAND SURVEYOR  
REGISTRATION No. 189377  
STATE OF UTAH

**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

DATE SURVEYED: 11-08-12	SURVEYED BY: C.D.S.
DATE DRAWN: 11-09-12	DRAWN BY: D.COX
REVISED:	SCALE: 1" = 1000'

<b>NAD 83 (SURFACE LOCATION)</b>	
LATITUDE = 40°17'37.97"	(40.293881)
LONGITUDE = 109°46'53.49"	(109.781525)
<b>NAD 27 (SURFACE LOCATION)</b>	
LATITUDE = 40°17'38.12"	(40.293921)
LONGITUDE = 109°46'50.97"	(109.780825)



**BILL BARRETT CORPORATION**

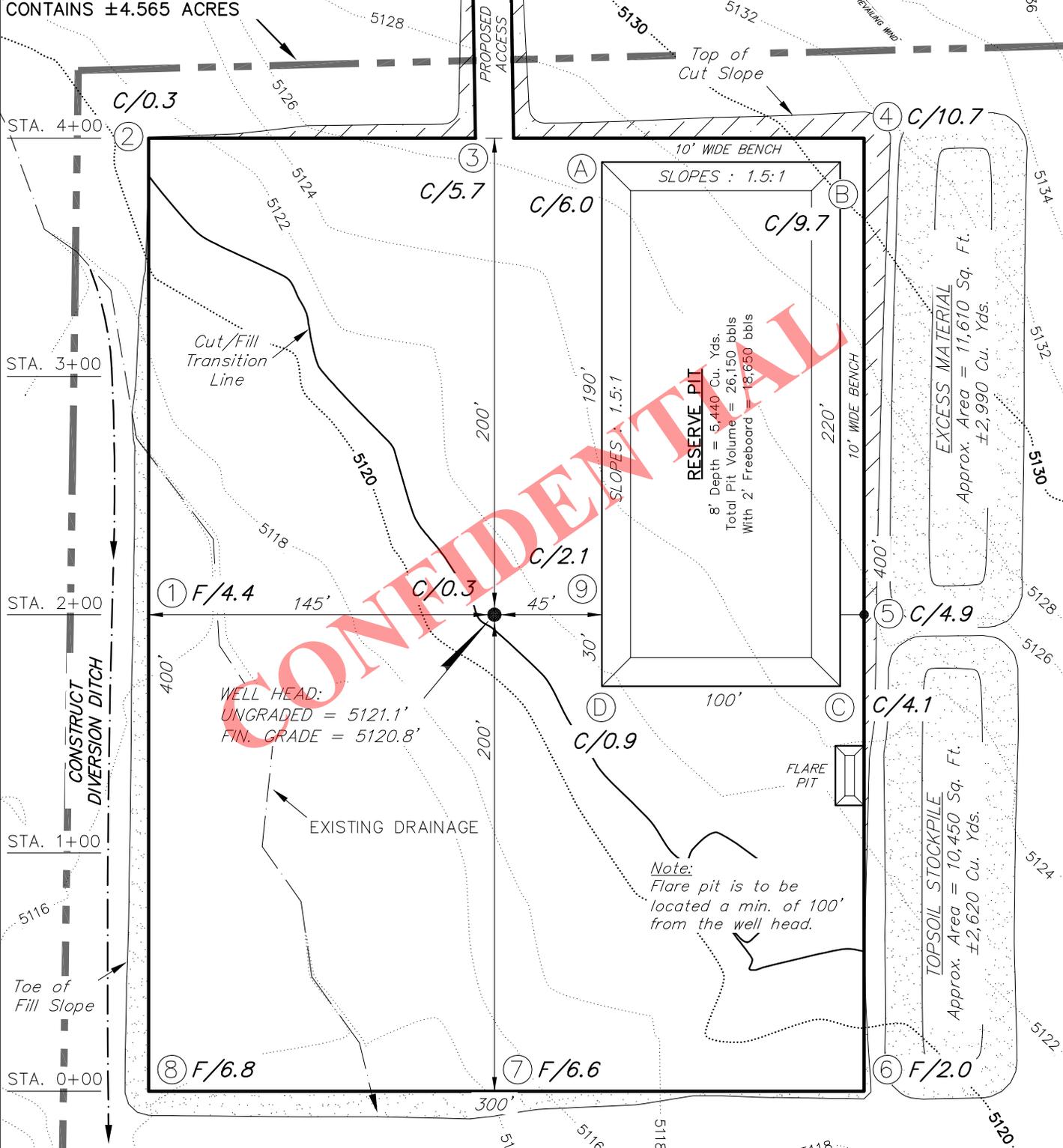
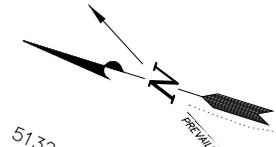
**LOCATION LAYOUT**

FD #12-21-2-2

Section 21, T2S, R2E, S.L.B.&M.

**FIGURE #1**

PROPOSED SURFACE USE AREA  
CONTAINS ±4.565 ACRES



WELL HEAD:  
UNGRADED = 5121.1'  
FIN. GRADE = 5120.8'

**RESERVE PIT**  
8' Depth = 5,440 Cu. Yds.  
Total Pit Volume = 26,150 bbls  
With 2' Freeboard = 18,650 bbls

**EXCESS MATERIAL**  
Approx. Area = 11,610 Sq. Ft.  
±2,990 Cu. Yds.

**TOPSOIL STOCKPILE**  
Approx. Area = 10,450 Sq. Ft.  
±2,620 Cu. Yds.

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 5,610 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.

**REFERENCE POINTS**

- 170' NORTHERLY - 5116.6'
- 195' NORTHERLY - 5116.9'
- 250' WESTERLY - 5112.7'
- 300' WESTERLY - 5112.4'

SURVEYED BY: C.D.S.	DATE SURVEYED: 11-08-12
DRAWN BY: D.COX	DATE DRAWN: 11-09-12
SCALE: 1" = 60'	REVISED:

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

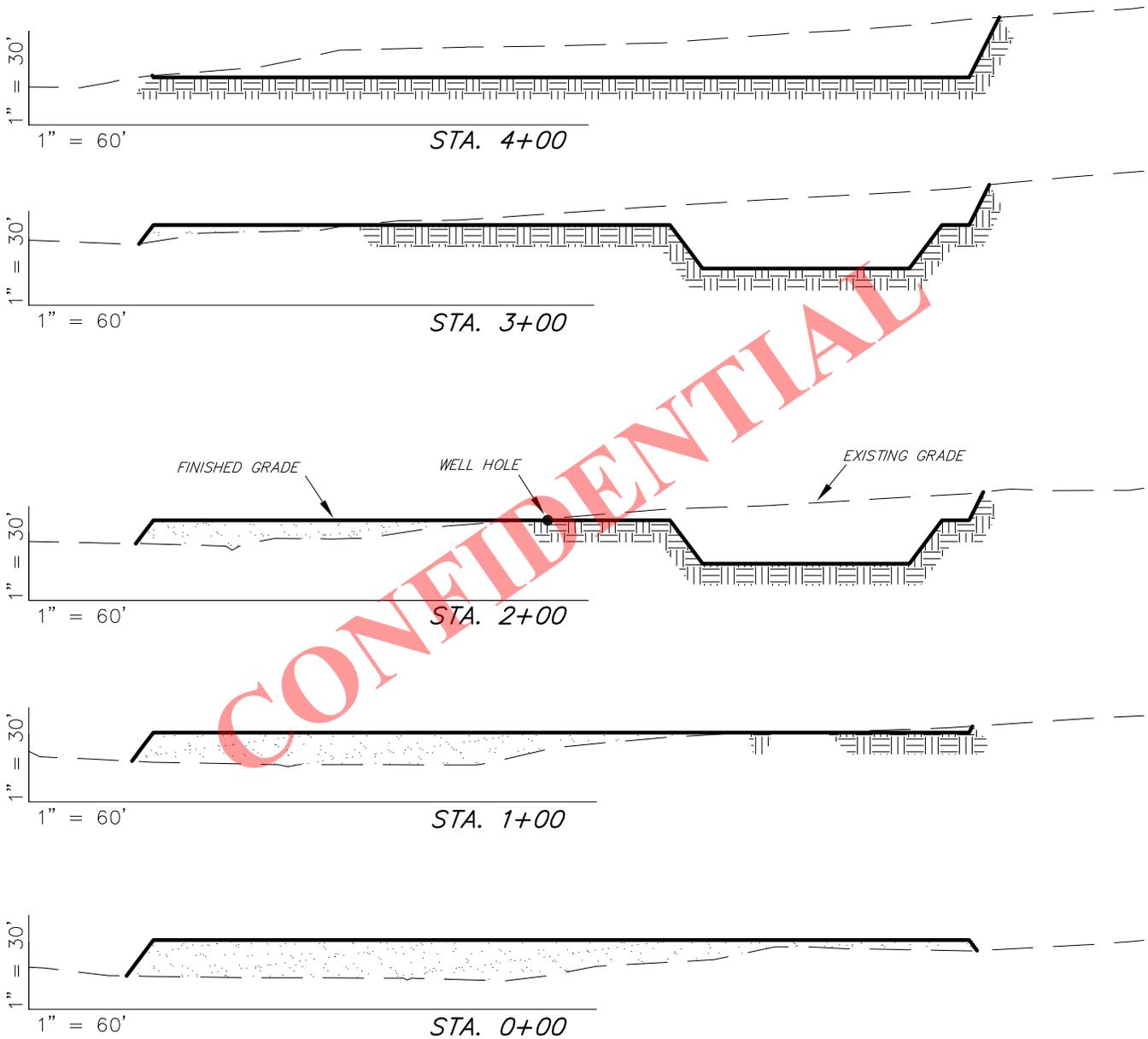
**SHEET 2**

**BILL BARRETT CORPORATION**

**FIGURE #2**

**TYPICAL CROSS SECTIONS**

FD #12-21-2-2  
Section 21, T2S, R2E, S.L.B.&M.



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

APPROXIMATE PROPOSED SURFACE USE AREA		
	DISTANCE	ACRES
WELL SITE DISTURBANCE	NA	±4.565 ACRES
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±1,255'	±0.864 ACRES
30' WIDE PIPELINE R-O-W DISTURBANCE	±1,250'	±0.860 ACRES
TOTAL SURFACE USE AREA	±2,505'	±6.289 ACRES

ESTIMATED EARTHWORK QUANTITIES (No Shrink or swell adjustments have been used) (Expressed in Cubic Yards)				
ITEM	CUT	FILL	6" TOPSOIL	EXCESS
PAD	6,800	9,520	Topsoil is not included in Pad Cut	-2,720
PIT	5,440	0		5,440
TOTALS	12,240	9,520	2,380	2,720

SURVEYED BY: C.D.S.	DATE SURVEYED: 11-08-12
DRAWN BY: D.COX	DATE DRAWN: 11-09-12
SCALE: 1" = 60'	REVISED:

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

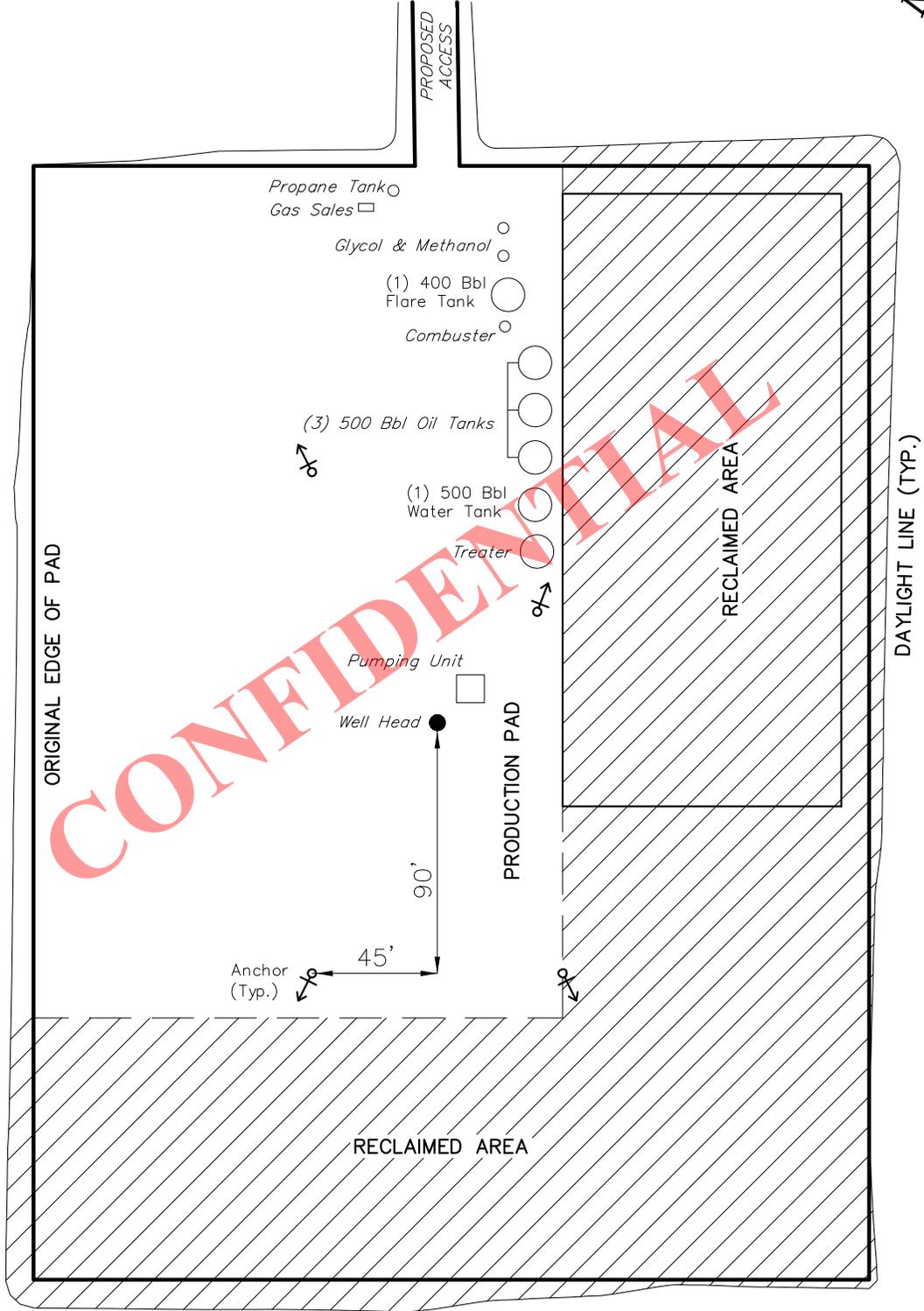
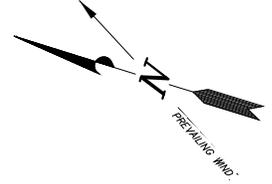
**SHEET 3**

**BILL BARRETT CORPORATION**

**INTERIM RECLAMATION PLAN**

FD #12-21-2-2  
Section 21, T2S, R2E, S.L.B.&M.

FIGURE #4



**DISTURBED AREA:**  
 TOTAL DISTURBED AREA = 4.565 ACRES  
 TOTAL RECLAIMED AREA = 3.174 ACRES  
 UNRECLAIMED AREA = 1.391 ACRES

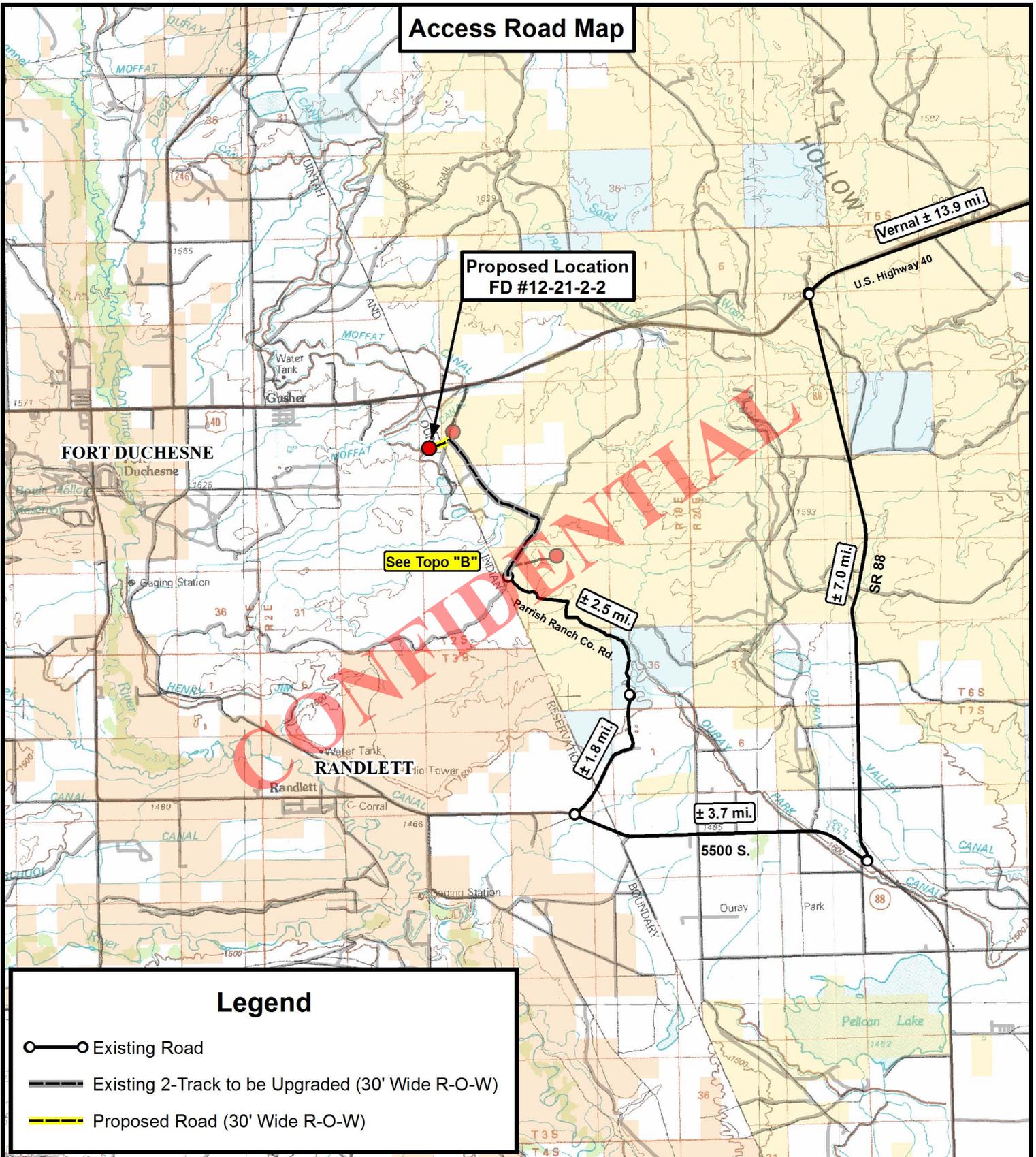
NOTE: RECLAIMED AREA TO INCLUDE SEEDING OF APPROVED VEGETATION AND SUFFICIENT STORM WATER MANAGEMENT SYSTEM.

SURVEYED BY: C.D.S.	DATE SURVEYED: 11-08-12
DRAWN BY: D.COX	DATE DRAWN: 11-09-12
SCALE: 1" = 60'	REVISED:

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

SHEET  
5

**Access Road Map**



**Legend**

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

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Land Surveying, Inc.**  
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P: (435) 781-2501  
F: (435) 781-2518



**BILL BARRETT CORPORATION**

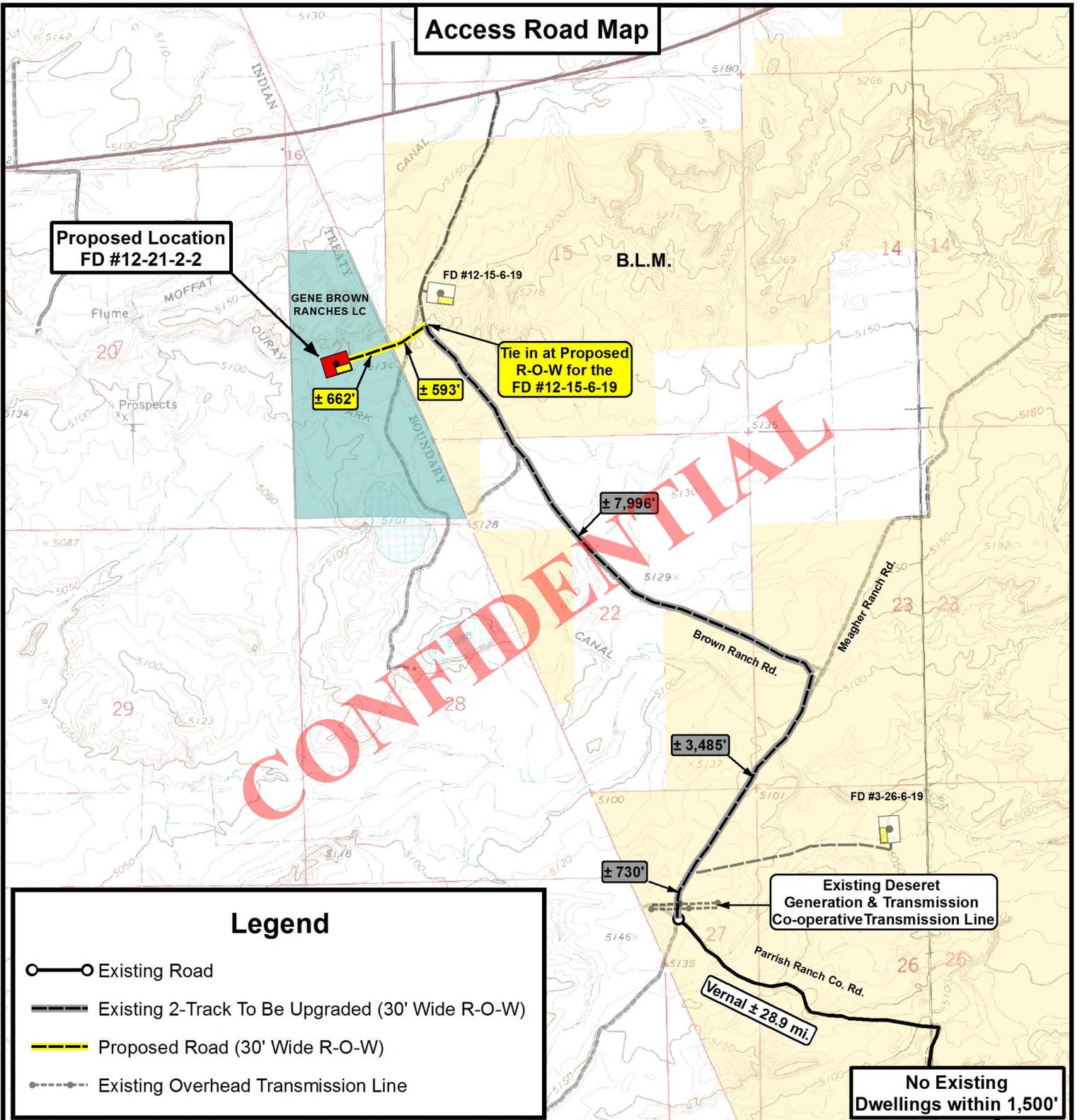
**FD #12-21-2-2  
SEC. 21, T2S, R2E, U.S.B.&M.  
Uintah County, UT.**

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	05-31-2012		
SCALE:	1:100,000		

**TOPOGRAPHIC MAP**

SHEET  
**A**

**Access Road Map**



**Legend**

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

Existing Deseret Generation & Transmission Co-operative Transmission Line

No Existing Dwellings within 1,500'

**TOTAL PROPOSED ROAD DISTANCE: ± 1,255'**

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**

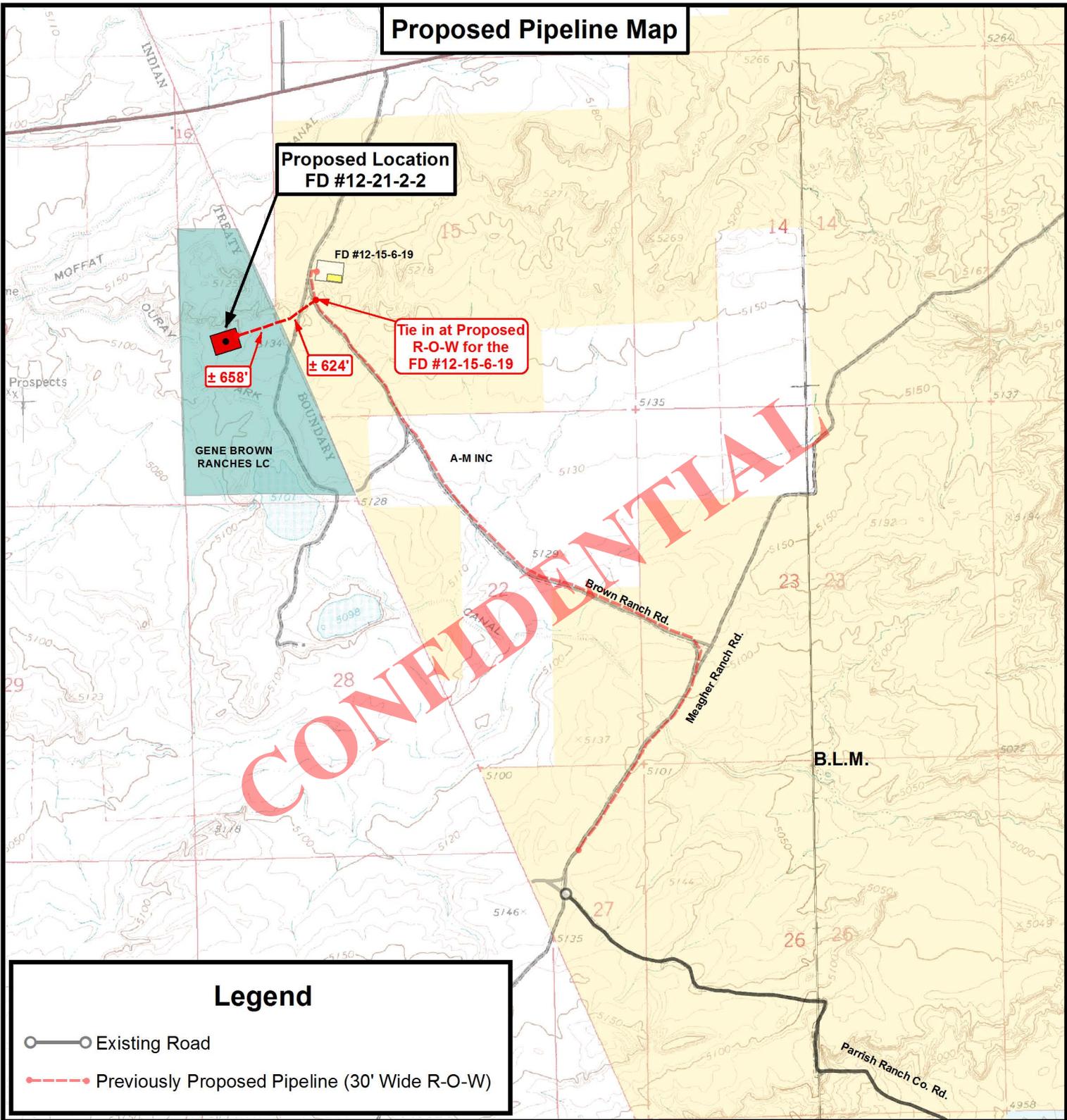
FD #12-21-2-2  
SEC. 21, T2S, R2E, U.S.B.&M.  
Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	05-31-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**B**

**Proposed Pipeline Map**



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**TOTAL PIPELINE DISTANCE:  $\pm 1,282'$**

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**

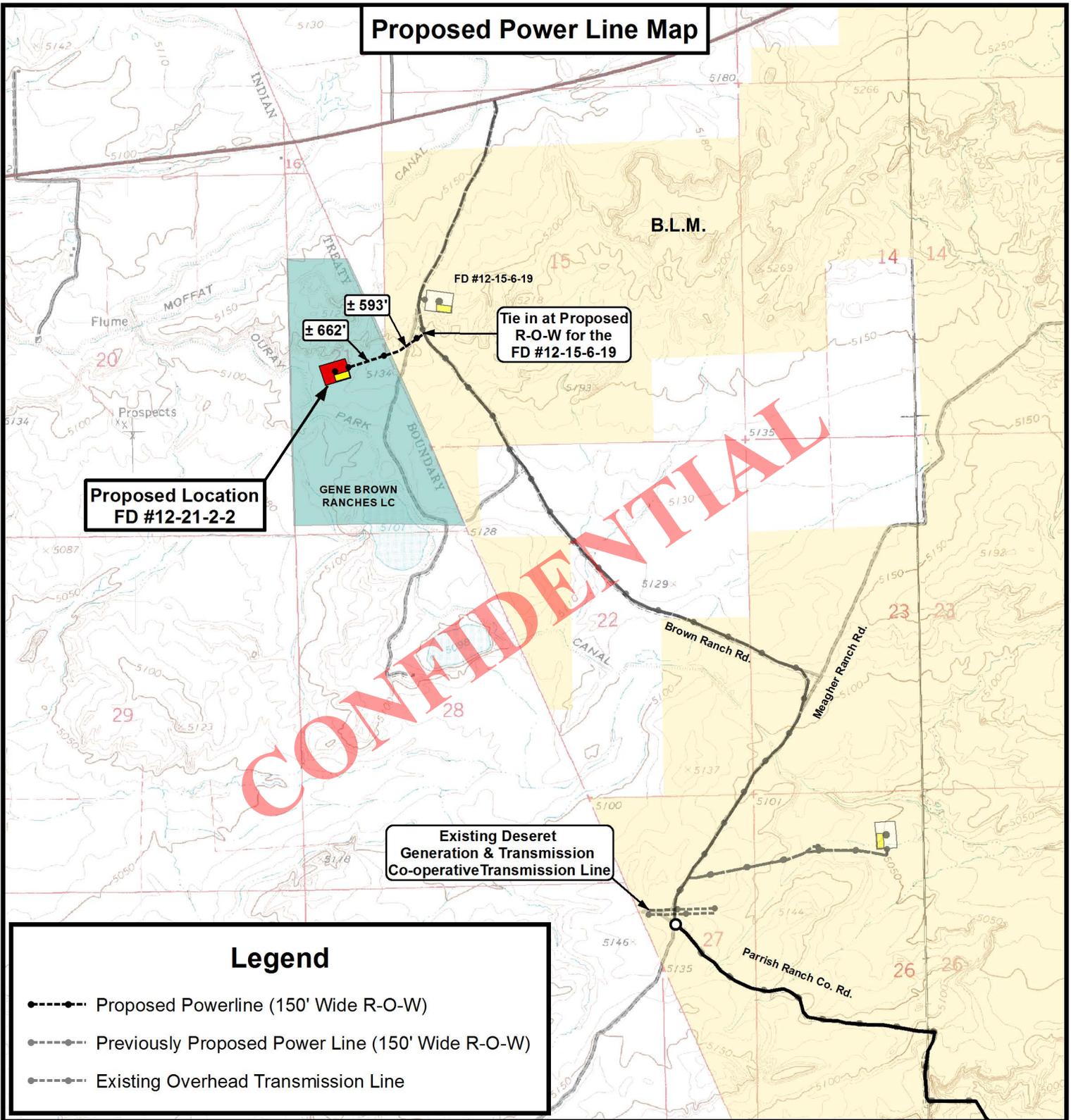
**FD #12-21-2-2  
SEC. 21, T2S, R2E, U.S.B.&M.  
Uintah County, UT.**

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	05-31-2012		
SCALE:	1" = 2,000'		

**TOPOGRAPHIC MAP**

SHEET  
**C**

**Proposed Power Line Map**



**Proposed Location  
FD #12-21-2-2**

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

**Existing Deseret  
Generation & Transmission  
Co-operative Transmission Line**

**Legend**

- - - - Proposed Powerline (150' Wide R-O-W)
- - - - Previously Proposed Power Line (150' Wide R-O-W)
- - - - Existing Overhead Transmission Line

**TOTAL POWER LINE DISTANCE: ± 1,255'**

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.



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

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



**BILL BARRETT CORPORATION**

**FD #12-21-2-2  
SEC. 21, T2S, R2E, U.S.B.&M.  
Uintah County, UT.**

DRAWN BY:	J.A.S.	REVISED:
DATE:	06-26-2013	
SCALE:	1" = 2,000'	

**TOPOGRAPHIC MAP**

SHEET  
**D**

**Location  
Photos**

**Center Stake**

Looking Northwesterly

Date Photographed:	03/09/2012
Photographed By :	D. Slaugh



**Access**

Looking Northwesterly

Date Photographed:	03/09/2012
Photographed By :	D. Slaugh



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

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

**BILL BARRETT CORPORATION**

FD #12-21-2-2  
 SEC. 21, T2S, R2E, U.S.B.&M.  
 Uintah County, UT.

DRAWN BY:	J.A.S.	REVISED:	12-07-2012 J.A.S.
DATE:	03-09-2012		

**COLOR PHOTOGRAPHS**

SHEET

**P**

**BILL BARRETT CORPORATION**

**FD #12-21-2-2**

**SECTION 21, T2S, R2E, U.S.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 7,996' ( $\pm 1.5$  MILES) TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE FD #12-21-6-19. FOLLOW ROAD FLAGS IN A WESTERLY DIRECTION APPROXIMATELY 1,255' PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 31.5 MILES

## SURFACE USE AGREEMENT

(FD 12-21-2-2)

**THIS AGREEMENT** Dated March 11, 2013 by and between \_\_\_\_\_

**Gene Brown Ranches, LC**

whose address is HC 69 Box 160 Randlett, UT 84063 (435-545-2519), hereinafter referred to as "Surface Owner", and

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

WITNESSETH:

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

A Tract of land lying in the **NW/4SW/4, N/2 Lot 3 in Section 21, Township 2 South, Range 2 East, USM** as further described on Exhibit "A" attached hereto and made a part hereof.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

ADDITIONAL PROVISIONS:

**SURFACE OWNER:**

William E. Brown  
By: **William E. Brown, President**  
**of Gene Brown Ranches, LC**

**CONFIDENTIAL**

STATE of Utah ACKNOWLEDGEMENT

COUNTY of Uintah

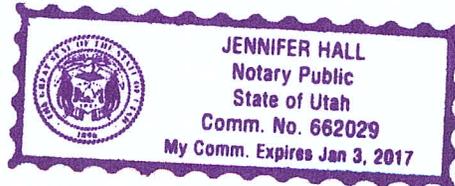
BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 12 day of March, 2013, personally appeared William E. Brown, in the capacity as stated above

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

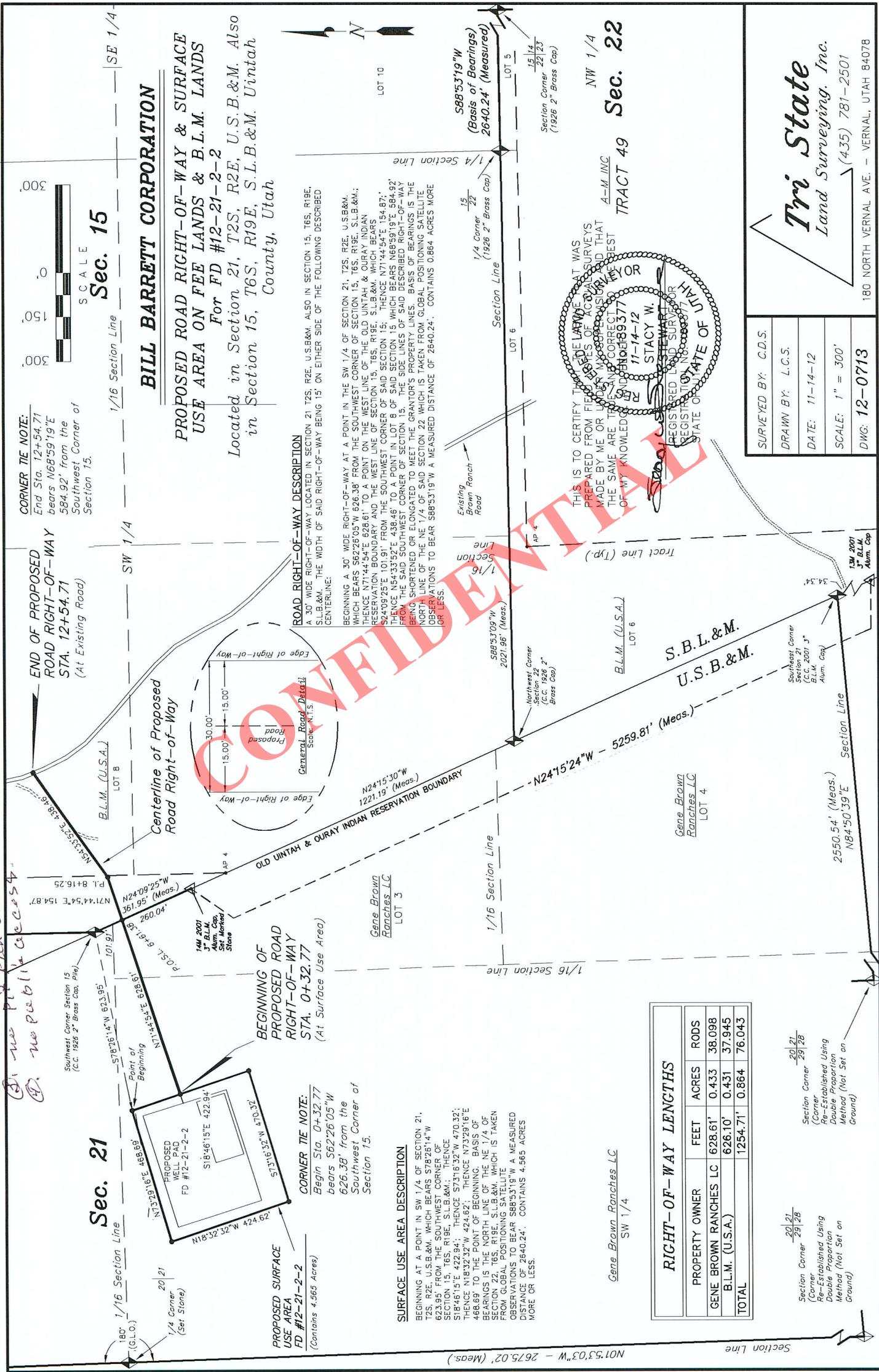
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

My Commission Expires: 1-03-2017

Jennifer Hall  
Notary Public



1- Battle Guard with ...  
 2- Gate for Livestock Access next to east leg road  
 3- no pub (1/4 acre) 54-  
 4- no pub (1/4 acre) 54-



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

SURVEYED BY: C.D.S.  
 DRAWN BY: L.C.S.  
 DATE: 11-14-12  
 SCALE: 1" = 300'  
 DWG: 12-0713

**RIGHT-OF-WAY LENGTHS**

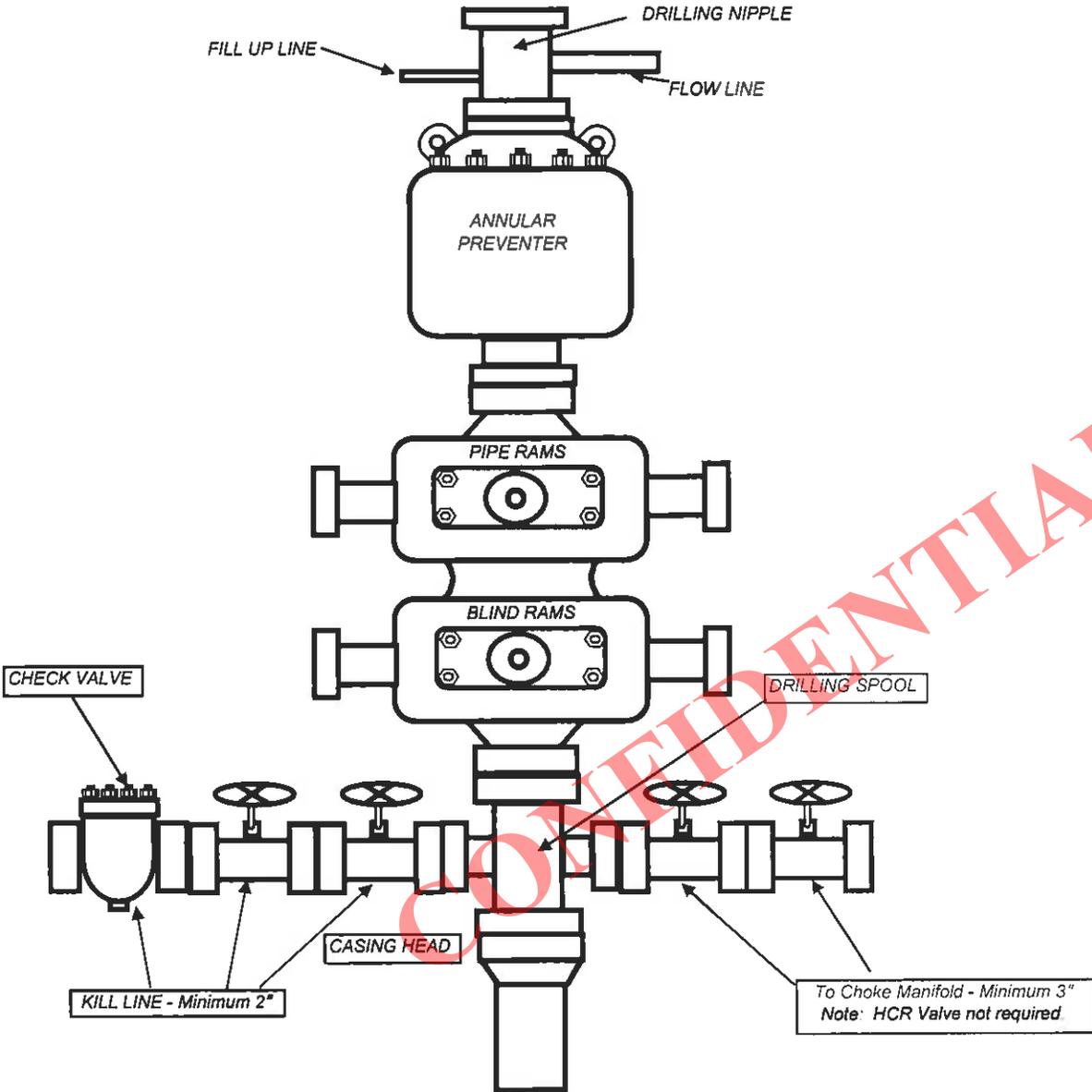
PROPERTY OWNER	FEET	ACRES	RODS
GENE BROWN RANCHES LC	628.61'	0.433	38.098
B.L.M. (U.S.A.)	626.10'	0.431	37.945
<b>TOTAL</b>	<b>1254.71'</b>	<b>0.864</b>	<b>76.043</b>

Section Corner 20/21 (Corner) 29/28  
 Re-Established Using Double Proportion Method (Not Set on Ground)

Section Corner 20/21 (Corner) 29/28  
 Re-Established Using Double Proportion Method (Not Set on Ground)

# BILL BARRETT CORPORATION

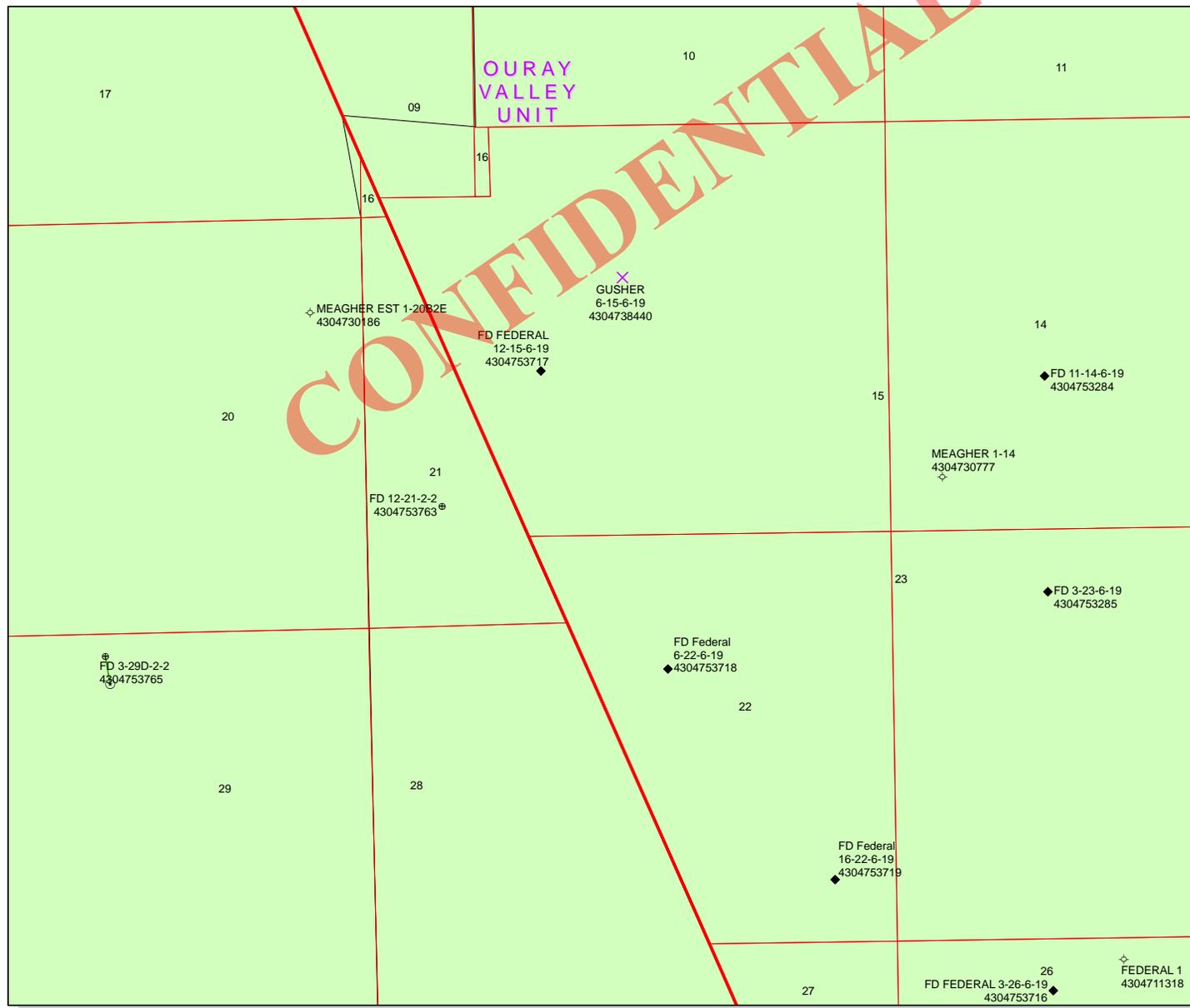
## TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER





OURAY  
VALLEY  
UNIT

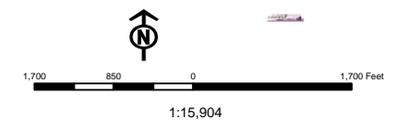
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**API Number: 4304753763**  
**Well Name: FD 12-21-2-2**  
**Township T02.0S Range R02.0E Section 21**  
**Meridian: UBM**  
 Operator: BILL BARRETT CORP

Map Prepared:  
 Map Produced by Diana Mason

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



Well Name	BILL BARRETT CORP FD 12-21-2-2 43047537630000			
String	COND	SURF	PROD	
Casing Size(")	16.000	9.625	5.500	
Setting Depth (TVD)	80	1500	10357	
Previous Shoe Setting Depth (TVD)	0	80	1500	
Max Mud Weight (ppg)	8.7	9.4	9.5	
BOPE Proposed (psi)	0	0	5000	
Casing Internal Yield (psi)	1000	3520	10640	
Operators Max Anticipated Pressure (psi)	5116		9.5	

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

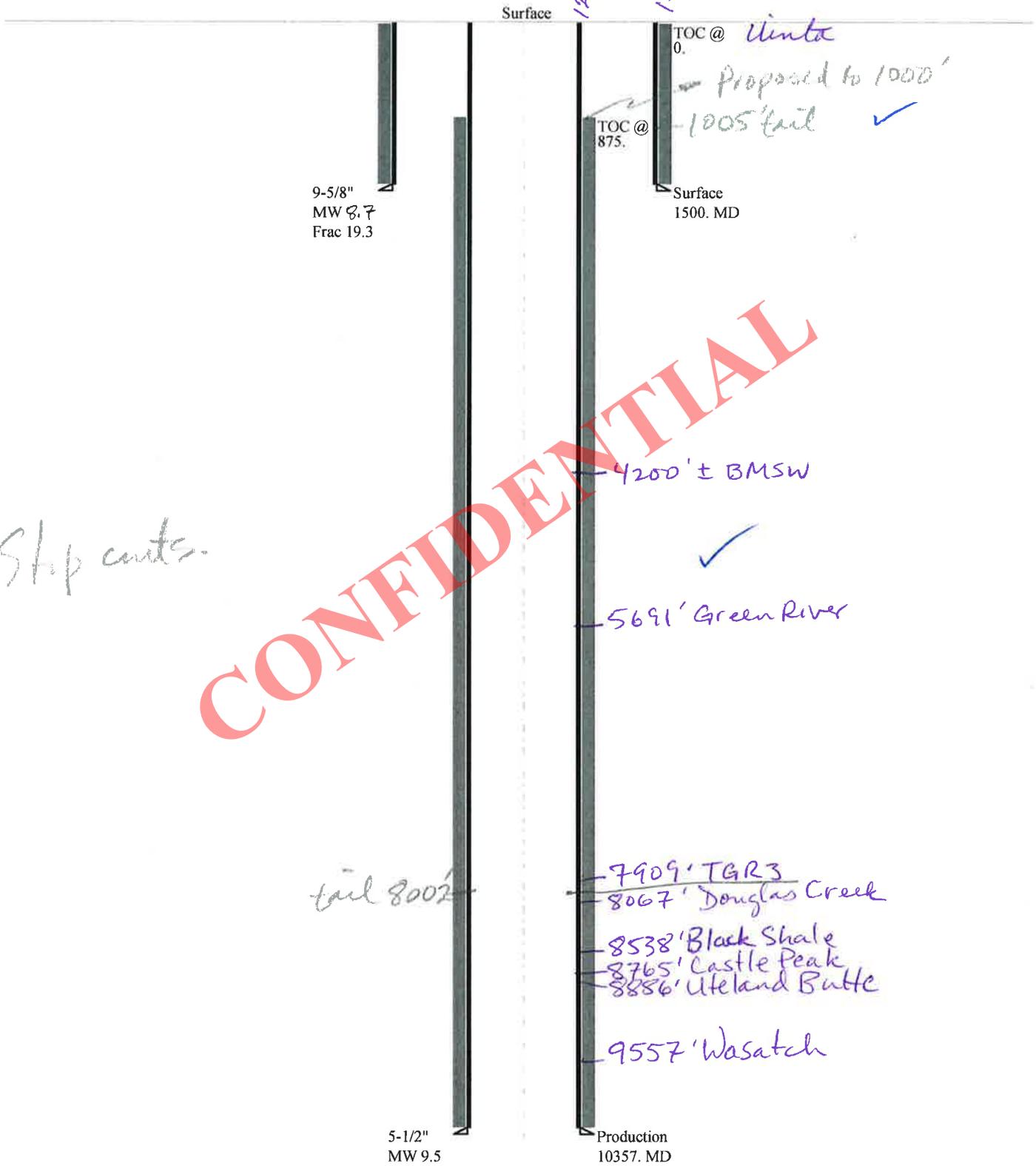
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	733	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	553	NO Fresh wtr spud mud
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	403	NO No expected pressure
			*Can Full Expected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

Calculations	PROD String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	5116	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3873	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2837	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3167	NO OK
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1500	psi *Assumes 1psi/ft frac gradient

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

43047537630000 FD 12-21-2-2

Casing Schematic



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Step counts.

tail 8002

9-5/8"  
MW 8.7  
Frac 19.3

5-1/2"  
MW 9.5

Surface

12.76

15.7

TOC @ 0. *Uinta*

*Proposed to 1000'*  
*1005' tail* ✓

Surface  
1500. MD

TOC @  
875.

*4200' ± BMSW* ✓

*5691' Green River*

*7909' TGR3*

*8067' Douglas Creek*

*8538' Black Shale*

*8765' Castle Peak*

*8886' Uteland Butte*

*9557' Wasatch*

Production  
10357. MD

Well name:	<b>43047537630000 FD 12-21-2-2</b>		
Operator:	<b>BILL BARRETT CORP</b>		
String type:	Surface	Project ID:	43-047-53753
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 8.700 ppg  
 Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 1,320 psi  
 Internal gradient: 0.120 psi/ft  
 Calculated BHP: 1,500 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor: 1.125

**Burst:**

Design factor: 1.00

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.70 (J)  
 Buttress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.50 (B)

Tension is based on buoyed weight.  
 Neutral point: 1,307 ft

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 95 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 100 ft

Cement top: Surface

**Non-directional string.**

**Re subsequent strings:**

Next setting depth: 10,357 ft  
 Next mud weight: 9.500 ppg  
 Next setting BHP: 5,111 psi  
 Fracture mud wt: 19.250 ppg  
 Fracture depth: 1,500 ft  
 Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1500	9.625	36.00	J-55	ST&C	1500	1500	8.796	13037
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	678	2020	2.980	1500	3520	2.35	47	394	8.37 J

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

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

Date: August 1, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43047537630000 FD 12-21-2-2</b>		
Operator:	<b>BILL BARRETT CORP</b>	Project ID:	43-047-537 43
String type:	Production		
Location:	UINTAH COUNTY		

**Design parameters:**

**Collapse**

Mud weight: 9.500 ppg  
 Design is based on evacuated pipe.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
 Surface temperature: 74 °F  
 Bottom hole temperature: 219 °F  
 Temperature gradient: 1.40 °F/100ft  
 Minimum section length: 1,000 ft

**Burst:**

Design factor 1.00

Cement top: 875 ft

**Burst**

Max anticipated surface pressure: 2,833 psi  
 Internal gradient: 0.220 psi/ft  
 Calculated BHP 5,111 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
 8 Round LTC: 1.80 (J)  
 Butress: 1.60 (J)  
 Premium: 1.50 (J)  
 Body yield: 1.60 (B)

**Non-directional string.**

Tension is based on air weight.  
 Neutral point: 8,865 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10357	5.5	17.00	P-110	LT&C	10357	10357	4.767	68219
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5111	7480	1.463	5111	10640	2.08	176.1	445	2.53 J

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

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

Date: July 18, 2013  
 Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10357 ft, a mud weight of 9.5 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

# ON-SITE PREDRILL EVALUATION

## Utah Division of Oil, Gas and Mining

**Operator** BILL BARRETT CORP  
**Well Name** FD 12-21-2-2  
**API Number** 43047537630000      **APD No** 7991    **Field/Unit** UNDESIGNATED  
**Location: 1/4,1/4NWSW**    **Sec** 21    **Tw** 2.0S    **Rng** 2.0E    2359 FSL 692 FWL  
**GPS Coord (UTM)** 603566 4461084      **Surface Owner** GENE BROWN RANCHES, LC

### Participants

Jake Woodland, Kary Eldredge (Bill Barrett Corporation), Jim Burns (permit contractor), Dayton Slaugh (surveyor)

### Regional/Local Setting & Topography

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

### Surface Use Plan

**Current Surface Use**  
Wildlfe Habitat

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.23	<b>Width</b> 300 <b>Length</b> 400	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?**      Y

### Environmental Parameters

**Affected Floodplains and/or Wetlands** N

#### **Flora / Fauna**

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

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

Sandy loam, some gravel on surface

**Erosion Issues** N

**Sedimentation Issues** N

**Site Stability Issues** N

**Drainage Diverson Required?** Y

around north side of location

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

<b>Distance to Groundwater (feet)</b>	75 to 100	10	
<b>Distance to Surface Water (feet)</b>	>1000	0	
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0	
<b>Distance to Other Wells (feet)</b>	>1320	0	
<b>Native Soil Type</b>	High permeability	20	
<b>Fluid Type</b>	TDS>10000	15	
<b>Drill Cuttings</b>	Normal Rock	0	
<b>Annual Precipitation (inches)</b>		0	
<b>Affected Populations</b>			
<b>Presence Nearby Utility Conduits</b>	Not Present	0	
<b>Final Score</b>		45	1 Sensitivity Level

**Characteristics / Requirements**

The reserve pit is proposed in a cut stable location. Dimensions are 220 x 100 x 8ft. Bill Barrett representative Kary Eldredge stated that a 20 mil reserve pit liner and felt subliner will be used. This liner program appears adequate for this location.

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

Richard Powell  
**Evaluator**

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

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
7991	43047537630000	LOCKED	OW	P	No
<b>Operator</b>	BILL BARRETT CORP		<b>Surface Owner-APD</b>	GENE BROWN RANCHES, LC	
<b>Well Name</b>	FD 12-21-2-2		<b>Unit</b>		
<b>Field</b>	UNDESIGNATED		<b>Type of Work</b>	DRILL	
<b>Location</b>	NWSW 21 2S 2E U 2359 FSL 692 FWL GPS Coord (UTM) 603657E 4460875N				

### Geologic Statement of Basis

Bill Barrett proposes to set 80 feet of conductor and 2,500 feet of surface casing at this location. The entire surface hole will be drilled with fresh water mud. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 4,200'. A search of Division of Water Rights records shows 1 water well within a 10,000 foot radius of the center of Section 21. The dpth for this well is listed as 250 feet. Listed use is stock watering. The well probably produces water from the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Production casing cement should be brought up to or above the base of the moderately saline ground water in order to isolate it from fresher waters uphole.

Brad Hill  
APD Evaluator

7/3/2013  
Date / Time

### Surface Statement of Basis

This proposed well is on fee surface with fee minerals. Surface owner Gene Brown was invited but was not in attendance at the presite. Mr. Brown did meet with me afterward and stated that he is OK with the placement of the well site but he would like to have seen the access road moved to the north on the rock ledge and out of the grass covered area where it is staked. The well was moved at the request of Mr. Brown as far north as possible and still be able to reroute the drainage and stay away from the rock ledges to the north because Mr. Brown plans to install a pivot irrigation sprinkler to the south of the location. This is an area of open desert with sandy soils, small broken and rugged hills and some exposed ledge rock. According to BBC representative Kary Eldredge a 20 mil liner and felt subliner will be used for this reserve pit. Due to very permeable soils and rugged terrain this well pad must be bermed to keep any leaked or spilled fluids contained to the pad. This appears to be a good site for placement of this well. A drainage diversion will be needed around the north side of this location but it appears to be a good site for this well.

Richard Powell  
Onsite Evaluator

6/19/2013  
Date / Time

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

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

Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

**CONFIDENTIAL**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 5/16/2013

API NO. ASSIGNED: 43047537630000

WELL NAME: FD 12-21-2-2

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: NWSW 21 020S 020E

Permit Tech Review: 

SURFACE: 2359 FSL 0692 FWL

Engineering Review: 

BOTTOM: 2359 FSL 0692 FWL

Geology Review: 

COUNTY: UINTAH

LATITUDE: 40.29385

LONGITUDE: -109.78045

UTM SURF EASTINGS: 603657.00

NORTHINGS: 4460875.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: fee

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

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

## RECEIVED AND/OR REVIEWED:

## LOCATION AND SITING:

- PLAT
- Bond: STATE - LPM4138148
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-1645
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

 R649-2-3.

Unit:

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

Board Cause No: Cause 139-42

Effective Date: 4/12/1985

Siting: 660' Fr Ext U Bdry &amp; 1320' Fr Other Wells

 R649-3-11. Directional Drill

Commingle Approved

Comments: Presite Completed

Stipulations: 3 - Commingle - dducet  
5 - Statement of Basis - bhill  
12 - Cement Volume (3) - hmacdonald  
25 - Surface Casing - hmacdonald



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 12-21-2-2  
**API Well Number:** 43047537630000  
**Lease Number:** fee  
**Surface Owner:** FEE (PRIVATE)  
**Approval Date:** 8/12/2013

### 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

### Commingle:

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

### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

### Conditions of Approval:

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

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

Surface casing shall be cemented to the surface.

**Additional Approvals:**

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

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

**Notification Requirements:**

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

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

**Contact Information:**

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

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

**Reporting Requirements:**

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

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

Approved By:

**Approved by:**

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

For John Rogers  
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> FD 12-21-2-2
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047537630000
<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> 2359 FSL 0692 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/4/2014  <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: 6/4/14 Spud Time: 2:30 PM Commence Drilling approximate start date: 6/30/2014		
<b>Accepted by the Utah Division of Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> June 04, 2014		
<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 6/4/2014

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9  5. LEASE DESIGNATION AND SERIAL NUMBER: fee
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: FD 12-21-2-2
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047537630000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2359 FSL 0692 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U		9. FIELD and POOL or WILDCAT: UNDESIGNATED
		COUNTY: UINTAH
		STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>8/12/2015</b>	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC hereby request a one year extension for APD

**Approved by the**  
**July 09, 2014**  
**Oil, Gas and Mining**

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

NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A	DATE 7/9/2014	



**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 43047537630000**

API: 43047537630000

Well Name: FD 12-21-2-2

Location: 2359 FSL 0692 FWL QTR NWSW SEC 21 TWNP 020S RNG 020E MER U

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 8/12/2013

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: 7/9/2014

Title: Administrative Assistant Representing: BILL BARRETT CORP

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BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# CAPSTAR 330 Submitted  
By Ricky Kuhr Phone Number 303-353-5374  
Well Name/Number FD 12-21-2-2  
Qtr/Qtr NW/SW Section 21 Township 2S Range 2E  
Lease Serial Number \_\_\_\_\_  
API Number 43-047-53763

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

Date/Time 7/13/2014 100 AM  PM

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

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

Date/Time 7/13/2014 100 AM  PM

BOPE

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

Date/Time 7-1-14 10:00 AM  PM

Remarks Running 1500' of 9 5/8", 36#, J-55, ST&C csg. PLEASE CALL WITH ANY QUESTIONS CONCERNS

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# CAPSTAR 330 Submitted  
By Pat Clark Phone Number 303-353-5374  
Well Name/Number FD 12-21-2-2  
Qtr/Qtr NW/SW Section 21 Township 2S Range 2E  
Lease Serial Number FEK  
API Number 43-047-53763

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 7-25 21:00 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 Running 9550' of 5 1/2", 17#, P-110, LT&C csg.  
PLEASE CALL WITH ANY QUESTIONS CONCERNS

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 12-21-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2359 FSL 0692 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: MOFFAT CANAL
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached is the July 2014 Drilling Activity for this well.

**Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
 FOR RECORD ONLY**  
 August 05, 2014

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/5/2014	

**FD 12-21-2-2 7/11/2014 16:00 - 7/12/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	14.00	06:00	1	RIGUP & TEARDOWN	MOVE RIG FROM 7-18-2-2 BLM NOTIFIED ON 7/11/2014 @ 630 FOR SURFACE CASING AND B.O.Ps TESTING RDRT 75% MOVED

**FD 12-21-2-2 7/12/2014 06:00 - 7/13/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	1	RIGUP & TEARDOWN	FINISH MOVING RIG AND RIGGING UP
15:00	15.00	06:00	1	RIGUP & TEARDOWN	WORK ON DRAW WORKS REPLACE KICK PADS AND WORN OUT BREAK PADS AND LINKAGE

**FD 12-21-2-2 7/13/2014 06:00 - 7/14/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	WORK ON DRAW TOOL (BRAKE BANDS HOSES) WORK ON IORN ROUGH NECK
19:00	1.00	20:00	1	RIGUP & TEARDOWN	RIG UP REST OF FLOOR AND PREP TOP DRIVE FOR SURFACE DRILLING
20:00	2.50	22:30	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS, REAMERS, SHOCK SUB RIG ON DAY WORK @ 19:00
22:30	7.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 91'-735' (644') 105' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=20K OFF BOTTOM PRESSURE=1193 PSI DIFF PRESS=150-300PSI TQ=7K

**FD 12-21-2-2 7/14/2014 06:00 - 7/15/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 735'-1540' (805') 134' FPH AVG GPM=691 TOPDRIVE RPM=40 MOTOR RPM=117 TOTAL RPM=157 WT ON BIT=20K OFF BOTTOM PRESSURE=1193 PSI DIFF PRESS=150-300PSI TQ=7K
12:00	1.00	13:00	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND
13:00	1.00	14:00	6	TRIPS	SHORT TRIP TO 8"
14:00	1.00	15:00	6	TRIPS	CIRCULATE AROUND SWEEP
15:00	3.00	18:00	6	TRIPS	TRIP OUT FOR CASING RUN
18:00	2.50	20:30	21	OPEN	RIG UP TO RUN 9 5/8 CASING
20:30	5.50	02:00	12	RUN CASING & CEMENT	RUN 9 5/8 J-55 36# ST&C CASING GUIDE SHOE 1 JNT CASING FLOAT 36 JNTS 10 CENTRALIZERS
02:00	1.50	03:30	12	RUN CASING & CEMENT	WASH LAST 100' OF CASING TO BOTTOM
03:30	2.50	06:00	12	RUN CASING & CEMENT	CIRCULATE AND WORK PIPE FOR CEMENT JOB RIG UP CEMENTERS

**FD 12-21-2-2 7/15/2014 06:00 - 7/16/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	12	RUN CASING & CEMENT	SAFETY MEETING WITH HALLIBURTON CEMENT CREW - TEST LINES @ 5000 PSI, 20 BBLS FRESH WATER 40 BBLS SUPER FLUSH @ 10 PPG 20 BBLS WATER 112 BBLS LEAD CEMENT 200 SKS @ 11 PPG YP 3.15 GAL/SK 19.38 57 BBLS TAIL CEMENT 240 SKS @ 14.8 PPG YP 1.48 GAL/SK 6.33 SHUT DOWN WASH UP LINES DROP PLUG DISPLACE WITH 115.4 FRESH WATER FINAL LIFT PRESURE 480 PSI BUMP THE PLUG @ 1080 PSI 50 BBLS OF CEMENT BACK TO SURFACE FLOATS HELD
08:30	1.00	09:30	12	RUN CASING & CEMENT	RIG DOWN CEMENT HEAD RIG UP 1' LINE AND TOP OUT WITH 15.6 20 BBLS OF CEMENT
09:30	3.50	13:00	13	WAIT ON CEMENT	WOC, RELEASE HALLIBURTON AFTER ONE HOUR
13:00	2.00	15:00	21	OPEN	PICK UP CONDUTOR CUT CASING AND LAY DOWN INSTALL AND WELD CAMERON 11" 5M X 9-5/8" SOW CASING HEAD

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	4.00	19:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.Ps
19:00	4.50	23:30	15	TEST B.O.P	TEST B.O.Ps TEST 5000 HIGH F/10 MINS LOWER AND UPPER KELLY VALVE F.O.S.V AND DART VALVE PIPE RAMS INSIDE VALVES HCR, KILL LINE CHOKE LINE, CHECK VALVE INSIDE MANIFOLD VALVES BLIND RAMS SUPER CHOKE TEST 2500 PSI HIGH ANNULAR TEST SURFACE CASING TO 1500 PSI FOR 30 MINS) BLM/UDOG NOTIFIED OF TEST 7/13/14 @ 7:30
23:30	0.50	00:00	21	OPEN	INSTALL WARE BUSHING
00:00	3.50	03:30	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS SCRIBE
03:30	1.50	05:00	6	TRIPS	TRIP IN THE HOLE
05:00	1.00	06:00	2	DRILL ACTUAL	DRILL OUT CEMENT, FLOAT & SHOE DRILL 20' NEW HOLE

**FD 12-21-2-2 7/16/2014 06:00 - 7/17/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	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	21	OPEN	PUMP LCM SWEEP PERFORM EMW TEST 148 PSI 10.5 PPG MUD WEIGHT
06:30	11.00	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 1560'-3381' (1821') 165' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=20K OFF BOTTOM PRESSURE=1400 PSI DIFF PRESS=150-300PSI TQ=3K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE FUNCTION TEST PIPE RAMS, B.O.P DRILL @ 1730 1 MIN EQU
18:00	11.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 3381'-4925' (1544') 134' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=23K OFF BOTTOM PRESSURE=1500 PSI DIFF PRESS=150-300PSI TQ=3K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE MORNING TOUR B.O.P DRILL @ 5:30 1 MIN 10 SECS

**FD 12-21-2-2 7/17/2014 06:00 - 7/18/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	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	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 4925'-5416' (501') 44' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=23K OFF BOTTOM PRESSURE=1500 PSI DIFF PRESS=150-300PSI TQ=3K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	2.00	20:00	21	OPEN	CHANGE OUT SWIVEL PACKING
20:00	9.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5416'-5664' (248') 28' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=4K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/18/2014 06:00 - 7/19/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5664'-5836' (172') 24' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	5.50	19:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5836'-5942 (104') 18' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
19:30	2.00	21:30	5	COND MUD & CIRC	PULL 5 JOINTS CIRCULATE AND GET MUD PROPERTIES CORRECT BRING UP LCM CONTENT TO 15% TO SLOW DOWN SEEPAGE TRIP TO BOTTOM DISPALCE 15 BBLs LCM PILL ON BOTTOM
21:30	7.00	04:30	6	TRIPS	TRIP OUT OF HOLE FOR BIT PULL TEN JOINTS FLOW CHECK
04:30	1.50	06:00	20	DIRECTIONAL WORK	LAY DOWN B.H.A

**FD 12-21-2-2 7/19/2014 06:00 - 7/20/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	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	20	DIRECTIONAL WORK	MAKE UP BIT AND DIRECTIONAL TOOLS SCRIBE MOTOR
07:00	4.50	11:30	6	TRIPS	TRIP IN THE HOLE
11:30	1.00	12:30	3	REAMING	WSAH AND REAM LAST 500' TO BOTTOM
12:30	2.00	14:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5942'-5992' (50') 14' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
14:30	1.00	15:30	5	COND MUD & CIRC	PICK UP BUILD VOLUME FLOW 30% TRAIN LCM 30 PPB SWEEPS DOWN HOLE RUBBLE AND BED ROCK COMING ACROSSED THE SHAKERS
15:30	14.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5992'-6470' (478') 33' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K (DRILL WITH 30% RETURNS @ 6140 REGAIN FULL RETURNS)
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/20/2014 06:00 - 7/21/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	COMPLETION	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6470'-6865' (395') 41' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6865'-7423' (558') 43' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/21/2014 06:00 - 7/22/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	COMPLETION	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7423'-7904' (558') 43' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=25K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=3-5K ( WELL SEEPING 20-30 BBLS A HOUR BBG 120-200 UNITS)
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	10.00	04:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7904'-8343' (439') 44' FPH AVG GPM=350 TOPDRIVE RPM=40 MOTOR RPM=56 TOTAL RPM=96 WT ON BIT=27K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=3-5K  (WELL SEEPING WITH 78% RETURNS BETWEEN 30-40 BBLS AN HOUR BYPASS SHAKERS @ 21:30 AND BRING UP LCM CONTENT TO 20% BBG 112-600 UNITS)
04:00	1.00	05:00	5	COND MUD & CIRC	PICK UP CIRCULATE AND MONITOR WELL FOR LOSSES AND BBG
05:00	1.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ -8343'-8410' (67') 67' FPH AVG GPM=350 TOPDRIVE RPM=40 MOTOR RPM=56 TOTAL RPM=96 WT ON BIT=27K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=3-5K

**FD 12-21-2-2 7/22/2014 06:00 - 7/23/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	COMPLETION	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	STEERABLE DRILLING F/ 8410'-8427'
07:00	8.50	15:30	3	REAMING	BACK REAM OUT OF THE HOLE DUE TO LOSSES AND FLUCTUATION IN FLOW BACK REAM WITH 70 SPM 50%-70% RETURNS TO SHOE @ 1540' TIGHT SPOT @ 6000'-5800
15:30	2.00	17:30	6	TRIPS	TRIP OUT ON TRIP TANKS FROM 1540'-0

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	1.50	19:00	6	TRIPS	LAY DOWN B.H.A HWDP AND DCs ON TRIP TANKS TAKING CORRECT DISPALCEMENT. Bit was severely balled up
19:00	2.00	21:00	21	OPEN	CHANGE OUT BITS AND MUD MOTOR SCRIBE MOTOR
21:00	1.50	22:30	6	TRIPS	TRIP IN B.H.A
22:30	1.00	23:30	9	CUT OFF DRILL LINE	SLIP AND CUT 60'
23:30	1.50	01:00	6	TRIPS	TRIP IN HOLE TO 1800'
01:00	2.50	03:30	3	REAMING	WASH AND REAM FROM 1800'-2926' 70 SPM FULL RETURNS
03:30	2.00	05:30	6	TRIPS	TRIP IN TO THE HOLE TAKING CORRECT DISPLACMENT
05:30	0.50	06:00	3	REAMING	WASH AND REAM LOST RETURNS STAGE OUT OF HOLE TO REGAIN RETURNS

**FD 12-21-2-2 7/23/2014 06:00 - 7/24/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	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	6	TRIPS	Tih. W&R w/85 strokes. Torquey and tight @ 5800'-6000'. Stage in breaking circ every 500' from 7000'.
14:00	3.50	17:30	2	DRILL ACTUAL	Steerable drlg 8427' - 8514'. Wob 20k, rpm 40-60/65, spp 1600 psi, dp 100 psi, 380 gpm, rop 25 fph. Losses minimized, shake out lcm and put in fresh - 8%.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	11.50	05:30	2	DRILL ACTUAL	Steerable drlg 8514' - 8899'. Wob 25k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 37 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 12-21-2-2 7/24/2014 06:00 - 7/25/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Steerable drlg 8899' - 9158'. Wob 28k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 25 fph. Well seeping, losing 40 bbls/hr.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	12.50	05:30	2	DRILL ACTUAL	Steerable drlg 9158' - 9368'. Wob 28k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 17 fph. Well seeping, losing 40 bbls/hr. Pull shaker screens, bring lcm to 20% @ 22:00 hrs.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 12-21-2-2 7/25/2014 06:00 - 7/26/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable drlg 9368' - 9400'. Wob 28k, rpm 40-60/70, spp 2600 psi, dp 100 psi, 410 gpm, rop 16 fph. Well stable, full circulation.
08:00	1.50	09:30	21	OPEN	Plugged drill string w/sweep, worked free. Remove and clean SPP transducer.
09:30	3.00	12:30	2	DRILL ACTUAL	Steerable drlg 9400' - 9428'. Wob 28k, rpm 40-60/70, spp 2600 psi, dp 100 psi, 410 gpm, rop 9 fph. Well stable, full circulation.
12:30	1.50	14:00	5	COND MUD & CIRC	C&C mud. Build clean mud f/dp, pump pill.
14:00	8.00	22:00	6	TRIPS	Toh. Tight @ 6000'.
22:00	1.00	23:00	20	DIRECTIONAL WORK	LD dir tools, XO bit.
23:00	7.00	06:00	6	TRIPS	Tih.

**FD 12-21-2-2 7/26/2014 06:00 - 7/27/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Finish tih. Wash through tight spots @ 6000', 7250'.
09:00	7.00	16:00	2	DRILL ACTUAL	Drilling 9428' - 9557'. Wob 20k, rpm 40-60/70, spp 2600 psi, dp 300 psi, 410 gp, rop 18 fph. Well stable, full circulation. TD well @ 9557' @ 16:00.
16:00	1.50	17:30	5	COND MUD & CIRC	C&C mud, sweep hole, pump pill.
17:30	8.50	02:00	6	TRIPS	TOH. LD BHA.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:00	0.50	02:30	21	OPEN	Pull wear bushing, LD cushion sub.
02:30	3.50	06:00	12	RUN CASING & CEMENT	Rig up & start running 5 1/2", P-110, 17#, LT&C csg - details on next report.

**FD 12-21-2-2 7/27/2014 06:00 - 7/28/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	12	RUN CASING & CEMENT	Run 5 1/2", 17#, P-110, LT&C casing as follows: flt shoe, 2 jts csg, flt sub, 18 jts csg, mj @ 8641', 14 jts csg, mj @ 7956', 180 jts csg(214 total), 22' spacer jt. PU jt #215, tag bottom @ 9557'.
13:00	3.50	16:30	5	COND MUD & CIRC	Reciprocate csg, C&C mud f/cement job.LD stroke jt, PU LJ. Good circulation, seeping 10 bbls/hr.
16:30	5.00	21:30	12	RUN CASING & CEMENT	HSM. Cement prod csg as follows: Test lines to 5000 psi. Pump 20 bbls H2O spacer, 20 bbl flush @ 10 ppg, 20 bbl H2O spacer, 40 bbl Tuned spacer @ 10 ppg. Mix and pump 855 sx (356 bbls) tuned lite lead @ 11 ppg, 2.34 yld, 10.1 gps h2o. Tail in with 1055 sx (272 bbls) Expandacem @ 13.5 ppg, 1.45 yld, 6.91 gps h2o. Wash up to pit, drop plug, displace with 214 bbls Cla-web/Aldicide @ 8.34 ppg. Max pressure 1750 psi, bump plug to 2250 psi. Bled back 1.5 bbls, floats held. Partial returns, lost returns @ 10 bbls into displacement, got back 20% returns 120 bbls in, no cement to surface. R/D HES.
21:30	2.50	00:00	21	OPEN	NDBOP. Packoff and test hanger.
00:00	6.00	06:00	21	OPEN	Clean pits. Rig released @ 06:00.

**FD 12-21-2-2 7/29/2014 06:00 - 7/30/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status COMPLETION	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	IWHD	Install Wellhead	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN HANGER MANDREL. NU 7" 5K TBG HEAD. PRES TEST VOID AND SEALS. GOOD. NU 7" NIGHT CAP. WELL SECURE.
08:00	9.00	17:00	LOGG	Logging	HSM MIRU HES LOGGING. RIH W/ GR/JB TO TAG FILL AT 9358'. DRLG SHOWS FC AT 9464' (106' FILL). RUN RMT/CBL-M LOG. SHOWS GOOD CMT TD TO 4950' FAIR CMT 4950'-4853'. TOC EST AT 4850'. SHORT JOINTS AT 7992'-8014' & 8633'-8655' DID NOT HOLD PSI
17:00	1.00	18:00	SRIG	Rig Up/Down	RDMO OUT HES
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE 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> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> FD 12-21-2-2
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047537630000
<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> MOFFAT CANAL
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2359 FSL 0692 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/17/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THIS WELL HAD FIRST PRODUCTION ON 8/17/14 AND FIRST GAS SALES  
ON 8/18/14

**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
August 18, 2014**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/18/2014	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: FD 12-21-2-2
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047537630000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2359 FSL 0692 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U	9. FIELD and POOL or WILDCAT: MOFFAT CANAL  COUNTY: UINTAH  STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2014	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Attached is the August 2014 Drilling Activity for this well.

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

<b>NAME (PLEASE PRINT)</b> Christina Hirtler	<b>PHONE NUMBER</b> 303 312-8597	<b>TITLE</b> Administrative Assistant
<b>SIGNATURE</b> N/A	<b>DATE</b> 9/3/2014	

**FD 12-21-2-2 8/12/2014 06:00 - 8/13/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	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.  HEATED FRAC LINE
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 12-21-2-2 8/13/2014 06:00 - 8/14/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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

**FD 12-21-2-2 8/14/2014 06:00 - 8/15/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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 CASED HOLE SOLUTIONS WITH 5" 10K LUBE.
08:30	1.00	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 50 PSI. RIH AND CORRELATE TO SJ AT 7992'-8014' & 8633'-8655'. RUN DOWN & PERF 8911'-8323' WITH 48 HOLES IN 16' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:30	3.00	12:30	SRIG	Rig Up/Down	RU HES FRAC FLEET.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**FD 12-21-2-2 8/15/2014 06:00 - 8/16/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.01	06:00	SMTG	Safety Meeting	AOL 04:30. 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
06:00	1.08	07:05	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7100 PSI. OPEN WELL W/ 30 PSI AT 5:55AM BREAK DOWN 3118 PSI AT 10.1 BPM. PMP 3900 GAL 15% HCL ACID W/ 96 BIO BALLS FOR DIVERSION. 9.9 BPM AT 2450 PSI. FLUSH W/ 8701 GAL. 29.6 BPM AT 2980 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.  STAGE FR PAD. STABLE RATE OF 69.7 BPM AT 3785 PSI. ISDP 2434 . FG .70. PERFS OPEN 42/48  ISIP 2479 , FG .71, MR 69.9 BPM, AR 69.5 BPM, MP 3699 PSI, AP 3315 PSI 100 MESH 13,700 lbs. .75 ppg 20/40 WHITE 145,900 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 2007 BBL, 20# HYBOR G (15) 953 BBL, BTR 3065 BBL  (STAGE SCORE 9.5 )  SHUT IN AND TURN OVER TO CASED HOLE.
07:05	1.41	08:30	PFRT	Perforating	PERF STG #2- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8589'-8607'. RUN DOWN AND SET 5-1/2" CBP AT 8869' WITH 2150 PSI. PULL UP AND PERF BLACK SHALE & CASTLE PEAK 8579'-8849' WITH 42 HOLES IN 14' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1400 PSI. TURN WELL OVER TO HES.



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
08:30	1.17	09:40	FRAC	Frac. Job	<p>FRAC STG 2            PRESSURE TEST LINES TO 6900 PSI.            OPEN WELL W/ 890 PSI AT 8:35AM            BREAK DOWN 4286 PSI AT 9.7 BPM.            PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10 BPM AT 2780 PSI.            FLUSH W/ 8377 GAL. 29.3 BPM AT 3846 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 69.5 BPM AT 4465 PSI. ISDP 2886 . FG .77            PERFS OPEN 36/42</p> <p>ISIP 3219 , FG .81, MR 69.7 BPM, AR 69.4 BPM, MP 4181 PSI, AP 3871 PSI            100 MESH 14,300 lbs. .5 ppg            20/40 WHITE 145,300 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 1608 BBL, 20# HYBOR G (16) 1111 BBL, BTR 2812 BBLS</p> <p>(STAGE SCORE 10 )            SHUT IN AND TURN OVER TO CASEDHOLE.</p>
09:40	1.10	10:46	PFRT	Perforating	<p>PERF STG #3- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2900 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7992'-8014'.            RUN DOWN AND SET 5-1/2" CBP AT 8562' WITH 2800 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8282'-8542' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2600 PSI. TURN WELL OVER TO HES.</p>
10:46	1.23	12:00	FRAC	Frac. Job	<p>FRAC STG 3            PRESSURE TEST LINES TO 6800 PSI.            OPEN WELL W/ 2590 PSI AT 11:00            BREAK DOWN 3451 PSI AT 10 BPM.            PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2550 PSI.            FLUSH W/ 8087 GAL. 29.7 BPM AT 3090 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 69.5 BPM AT 4518 PSI. ISDP 2793 . FG .77.            PERFS OPEN 33/45</p> <p>ISIP 3130 , FG .81, MR 69.8 BPM, AR 69.5 BPM, MP 4410 PSI, AP 3977 PSI            100 MESH 13,800 lbs. .75 ppg            20/40 WHITE 145,700 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 1744 BBL, 20# HYBOR G (15) 943 BBL, BTR 2780 BBLS</p> <p>(STG SCORE 7 )            TREATER START GELLING AND XLINK IN 20/40 SLICK WATER STG. LEFT CHEMS AND GEL RUNNING FOR REMAINDER OF THE STG AS XLINK.</p> <p>SHUT IN AND TURN OVER TO CASEDHOLE.</p>
12:00	4.34	16:20	PFRT	Perforating	<p>PERF STG #4- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 2650 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7992'-8014'.</p> <p>(MISRUN PLUG DID NOT TRY TO SET POOH FOUND WATER IN GUN# 8            CONFIRMED WITH DENVER ABOUT RIH WITH 14 GUNS INSTEAD OF DESIGN OF 15)</p> <p>RUN DOWN AND SET 5-1/2" CBP AT 8272' WITH 2650 PSI. PULL UP AND PERF TGR3 FORM 7955'-8252' WITH 42 HOLES IN 14' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2600 PSI. TURN WELL OVER TO HES.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:20	1.33	17:40	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7000 PSI. OPEN WELL W/ 2580 PSI AT 16:25 BREAK DOWN 3250 PSI AT 9.7 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2440 PSI. FLUSH W/ 7767 GAL. 29.5 BPM AT 3020 PSI BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.  STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 4768 PSI. ISDP 2633 . FG .77. PERFS OPEN 31/42  ISIP 2652 , FG .77, MR 73.7 BPM, AR 72.9 BPM, MP 4676 PSI, AP 3821 PSI 100 MESH 14,080 lbs. .75 ppg 20/40 WHITE 131,340 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1827 BBL, 20# HYBOR G (16) 1180 BBL, BTR 3088 BBLs  (STG SCORE 10)  SHUT IN, REMOVE STAND PIPES AND TURN OVER TO CASEDHOLE.
17:40	1.00	18:40	WLWK	Wireline	KILL PLUG- PU 5-1/2" HES PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 2450 PSI. RIH AND SET KILL PLUG AT 7855' WITH 2400 PSI. BLEED OFF AS POOH.
18:40	2.50	21:10	SRIG	Rig Up/Down	RDMO HES AND CASEDHOLE.
21:10	8.83	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE

**FD 12-21-2-2 8/16/2014 06:00 - 8/17/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	0.50	07:30	SRIG	Rig Up/Down	ROAD RIG TO LOCATION.
07:30	1.00	08:30	BOPI	Install BOP's	ND FRAC VALVES. NU BOP AND STRIP HEAD.
08:30	1.00	09:30	SRIG	Rig Up/Down	RUSU. RU FLOOR. PU PWR SWIVEL.
09:30	2.00	11:30	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 303-JTS 2-7/8" L-80 TBG.
11:30	3.00	14:30	RUTB	Run Tubing	MU 4-3/4" BIT, POBS, 1-JT TBG, AND PSN. RIH AS MEAS AND PU 248-JTS 2-7/8" L-80 TBG.
14:30	0.50	15:00	PTST	Pressure Test	RU PWR SWIVEL. FILL TBG. PRES TEST BOP AND LINES TO 1000 PSI.
15:00	2.00	17:00	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS  CBP #1 AT 7855'. 0' FILL. D/O IN 10 MIN. 1250 PSI ON 32/64" CBP #2 AT 8272'. 18' FILL. D/O IN 5 MIN. 1150 PSI ON 33/64" CBP #3 AT 8562'. 20' FILL. D/O IN 5 MIN. 1050 PSI ON 32/64" CBP #4 AT 8869'. 13' FILL. D/O IN 4 MIN. 1200 PSI ON 30/64"
17:00	0.50	17:30	CTU	Clean Out	CIRC CLEAN. RD PWR SWIVEL.
17:30	12.50	06:00	FBCK	Flowback Well	CREW TRAVEL. TURN TO FBC AND TREATER AT 18:00 - 1750 PSI ON 16/64".

**FD 12-21-2-2 8/17/2014 06:00 - 8/18/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING 750 PSI ON 20/64".
07:00	1.50	08:30	CTU	Clean Out	RIH W/ BIT AND POBS ON TBG. C/O 22' FILL TO FC AT 9463'. D/O 58' CMT TO 9521' (PBSD).
08:30	0.50	09:00	SRIG	Rig Up/Down	RD PWR SWIVEL AS CIRC CLEAN.
09:00	1.00	10:00	PULT	Pull Tubing	POOH AS LD 53-JTS TBG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	1.00	11:00	BOPR	Remove BOP's	LUBE IN AND LAND HANGER. RD FLOOR. ND BOP. NU WH.  TBG DETAIL KB 13.00 HANGER .85 245-JTS 2-7/8" L-80 7790.88 PSN 1.10 1-JT 2-7/8" L-80 31.83 POBS .64  EOT AT 7838.31
11:00	0.50	11:30	GOP	General Operations	POBS AT 2800 PSI. PLUMB IN WELL HEAD. TURN OVER TO FBC AND PROD. FTP 800 PSI ON 12/64. SICP 950 PSI.
11:30	18.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED OVER TO FBC AND SALES.

**FD 12-21-2-2 8/20/2014 06:00 - 8/21/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	BOPI	Install BOP's	PUMP 250 BBLs HOT WTR DOWN TBG. ND WH. NU BOP. RU FLOOR
08:30	2.50	11:00	PULT	Pull Tubing	POOH W/ TBG AND POBS.
11:00	2.50	13:30	RUTB	Run Tubing	MU PROD BHA AND RIH W/ TBG.  TBG DETAIL KB 13.00 HANGER .85 STRETCH 2.87 242-JTS 2-7/8" L-80 7690.76 5-1/2" 8RD TAC 2.75 3-JTS 2-7/8" L-80 95.34 PSN 1.10 4' TBG SUB 4.15 3-1/2" DESANDER 18.20 5-JTS 2-7/8" L-80 158.90 BULL PLUG .60  TAC AT 7707.48', PSN AT 7805.57', EOT AT 7988.52'.
13:30	1.50	15:00	BOPR	Remove BOP's	SET TAC. RD FLOOR. ND BOP. LAND HANGER IN 20K TENSION. NU WH. X-O FOR RODS.
15:00	0.50	15:30	HOIL	Hot Oil Well	FLUSH TBG W/ 75 BBLs HOT WTR. PU AND PRIME PUMP.
15:30	2.50	18:00	RURP	Run Rods & Pump	RIH W/ PMP AS PU RODS. EOP 5000'. SDFN
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

**FD 12-21-2-2 8/21/2014 06:00 - 8/22/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	2.50	09:30	RURP	Run Rods & Pump	CONT RIH W/ PMP AS PU RODS. SPACE OUT AND SEAT PUMP.  ROD DETAIL 1-1/2" X 30' POLISH ROD 4', 6', 8' X 1" PONY RODS 120) 7/8" D 4 PER 153-3/4" D 4 PER 36) 1" D 4 PER SHEAR CPLG 25-175-RHBC-20-5-21-24' PUMP
09:30	0.50	10:00	PTST	Pressure Test	FILL TBG W/ 3 BBLs. STROKE TEST PUMP TO 800 PSI. GOOD.
10:00	1.00	11:00	GOP	General Operations	HANG HEAD AND RODS ON.
11:00	1.00	12:00	SRIG	Rig Up/Down	RDSU. TURN WELL OVER TO PRODUCTION.
12:00	18.00	06:00	GOP	General Operations	ROAD RIG TO 13-22-22. WELL ON PRODUCTION

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

AMENDED REPORT  FORM 8  
(highlight changes)

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:  
**FD 12-21-2-2**

9. API NUMBER:  
**4304753763**

10 FIELD AND POOL, OR WILDCAT  
**Moffat Canal**

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:  
**NWSW 21 2S 2E U**

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

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  OTHER \_\_\_\_\_

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

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

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

4. LOCATION OF WELL (FOOTAGES)  
AT SURFACE: **2359 FSL 1692 FWL**  
AT TOP PRODUCING INTERVAL REPORTED BELOW: **2352 FSL 719 FWL**  
AT TOTAL DEPTH: **2330 FSL 723 FWL**

14. DATE SPURRED: **6/4/2014** 15. DATE T.D. REACHED: **7/26/2014** 16. DATE COMPLETED: **8/17/2014** ABANDONED  READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):  
**5121 GL**

18. TOTAL DEPTH: MD **9,557** 19. PLUG BACK T.D.: MD **9,465** 20. IF MULTIPLE COMPLETIONS, HOW MANY? \*  
TVD **9,556** TVD **9,464** 21. DEPTH BRIDGE MD \_\_\_\_\_ PLUG SET: TVD \_\_\_\_\_

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

**CBL/TRIPLE COMBO/MUD**

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
24	16 Conq	65#	0	80	80			0	
12 1/4	9 5/8 J-55	36#	0	1,540	1,536	Lead 200	225	0	
						Tail 240	60		
7 7/8	5 1/2 P110	17#	0	9,557	9,554	Tuned 855	356	5322	
						ECON 1,000	272		

**25. TUBING RECORD**

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	7,989							

**26. PRODUCING INTERVALS**

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Green River	7,995	9,349		
(B)				
(C)				
(D)				

**27. PERFORATION RECORD**

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,995 9,323	.38	216	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7995 - 9323	Green River: See attached Stage 1-4

**29. ENCLOSED ATTACHMENTS:**

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

**30. WELL STATUS:**

**POW**

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 8/9/2014		TEST DATE: 8/24/2014		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 206	GAS – MCF: 22	WATER – BBL: 140	PROD. METHOD: Flowing
CHOKE SIZE: 48/64	TBG. PRESS. 500	CSG. PRESS. 50	API GRAVITY 40.00	BTU – GAS 1	GAS/OIL RATIO 107	24 HR PRODUCTION RATES: →	OIL – BBL: 206	GAS – MCF: 22	WATER – BBL: 14,056	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

Sold

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Green River	5,653
				Mahogany	6,753
				TGR3	6,749
				Douglas Creek	8,100
				Black Shale Facies	8,572
				Castle Peak	8,664
				Uteland Butte	8,931
				Wasatch	9,474
				TD	9,557

35. ADDITIONAL REMARKS (Include plugging procedure)

TOC calculated by CBL. Conductor cemented with grout. First oil sales 8/23/2014, first gas sales 8/18/2014

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

NAME (PLEASE PRINT) Christina Hirtler TITLE Permit Analyst  
 SIGNATURE \_\_\_\_\_ DATE 9/15/2014

This report must be submitted within 30 days of

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

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

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

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

**12-21-2-2FD Completion Report Continued\***

<b>44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)</b>				
<b>AMOUNT AND TYPE OF MATERIAL</b>				
<u>Stage</u>	<u>BBLs Slurry</u>	<u>lbs 100 Common Mesh</u>	<u>lbs 20/40 Prem White Sand</u>	<u>gal 15% HCl Acid</u>
1	3065	13,700	145,900	4,400
2	2812	14,300	145,300	3,900
3	2780	13,800	145,700	3,900
4	3088	14,080	131,340	3,400

\*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 12-21-2-2		
<b>Project:</b> Fort Duchesne	FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)		
<b>Site:</b> SECTION 21 T2S, R2E	FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)		
<b>Well:</b> FD 12-21-2-2	True		
<b>Wellbore:</b> Wellbore #1	Minimum Curvature		
<b>Design:</b> Actual	EDM 5000.1 Single User Db		
<b>Project:</b> Fort Duchesne	<b>System Datum:</b> Mean Sea Level		
<b>Map System:</b> US State Plane 1983			
<b>Geo Datum:</b> North American Datum 1983			
<b>Map Zone:</b> Utah Southern Zone			
<b>Site:</b> SECTION 21 T2S, R2E			
<b>Site Position:</b> From: Lat/Long	<b>Northing:</b> 11,168,162.71 usft	<b>Latitude:</b> 40° 17' 37.970 N	
<b>Position Uncertainty:</b> 0.0 usft	<b>Easting:</b> 2,120,212.90 usft	<b>Longitude:</b> 109° 46' 53.490 W	
	<b>Slot Radius:</b> 13-3/16 "	<b>Grid Convergence:</b> 1.05 °	
<b>Well:</b> FD 12-21-2-2, SHL: 40° 17' 37.970 -109° 46' 53.490			
<b>Well Position</b> +N/-S 0.0 usft	<b>Northing:</b> 11,168,162.71 usft	<b>Latitude:</b> 40° 17' 37.970 N	
+E/-W 0.0 usft	<b>Easting:</b> 2,120,212.90 usft	<b>Longitude:</b> 109° 46' 53.490 W	
<b>Position Uncertainty</b> 0.0 usft	<b>Wellhead Elevation:</b> 5,134.0 usft	<b>Ground Level:</b> 5,121.0 usft	
<b>Wellbore</b> Wellbore #1			
<b>Magnetics</b>	<b>Model Name</b> IGRF2010	<b>Sample Date</b> 7/2/2014	<b>Dip Angle (°)</b> 10.84
			<b>Field Strength (nT)</b> 65.98
			<b>52.146</b>
<b>Design</b> Actual			
<b>Audit Notes:</b> Version: 1.0	<b>Phase:</b> ACTUAL	<b>Tie On Depth:</b> 0.0	
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b> 0.0	<b>+N/-S (usft)</b> 0.0	<b>Direction (°)</b> 132.97
		<b>+E/-W (usft)</b> 0.0	
<b>Survey Program</b>	<b>Date</b> 7/29/2014		
<b>From (usft)</b> 139.0	<b>To (usft)</b> 9,557.0	<b>Survey (Wellbore)</b> Survey #1 (Wellbore #1)	<b>Description</b> MWD v3:standard declination
		<b>Tool Name</b> MWD	



# Payzone Directional

## End of Well Report



**Company:** Bill Bairrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 21 T2S, R2E  
**Well:** FD 12-21-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well FD 12-21-2-2  
**MD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**North Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 5000.1 Single User Db

**Well:** FD 12-21-2-2  
**MD:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**North Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
0.0	0.00	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00
139.0	0.40	267.66	139.0	-0.3	0.0	-0.5	0.29	0.29	0.00
207.0	0.26	316.66	207.0	-0.7	0.1	-0.8	0.44	-0.21	72.06
269.0	0.48	312.00	269.0	-1.1	0.4	-1.1	0.36	0.35	-7.52
331.0	0.26	313.89	331.0	-1.5	0.6	-1.4	0.36	-0.35	3.05
393.0	0.31	18.00	393.0	-1.7	0.9	-1.5	0.49	0.08	103.40
454.0	0.31	355.94	454.0	-1.9	1.2	-1.4	0.19	0.00	-36.16
515.0	0.22	335.02	515.0	-2.1	1.5	-1.5	0.21	-0.15	-34.30
575.0	0.31	4.16	575.0	-2.3	1.7	-1.5	0.27	0.15	48.57
636.0	0.53	78.08	636.0	-2.2	2.0	-1.2	0.88	0.36	121.18
727.0	0.35	110.46	727.0	-1.7	2.0	-0.6	0.33	-0.20	35.58
818.0	0.26	74.03	818.0	-1.4	1.9	-0.1	0.23	-0.10	-40.03
892.0	0.31	77.99	892.0	-1.2	2.0	0.3	0.07	0.07	5.35
977.0	0.59	32.42	977.0	-1.1	2.4	0.7	0.51	0.33	-53.61
1,063.0	0.44	56.50	1,063.0	-1.1	3.0	1.2	0.30	-0.17	28.00
1,148.0	0.48	65.20	1,148.0	-0.9	3.3	1.8	0.09	0.05	10.24
1,234.0	0.44	78.78	1,234.0	-0.6	3.5	2.5	0.13	-0.05	15.79
1,319.0	0.31	81.42	1,319.0	-0.3	3.6	3.0	0.15	-0.15	3.11
1,406.0	0.40	98.47	1,406.0	0.1	3.6	3.6	0.16	0.10	19.60
1,558.0	0.31	149.12	1,558.0	1.0	3.2	4.3	0.21	-0.06	33.32
1,644.0	0.49	99.86	1,644.0	1.5	2.9	4.8	0.43	0.21	-57.28
1,731.0	0.80	83.42	1,731.0	2.2	2.9	5.7	0.41	0.36	-18.90
1,818.0	0.40	351.35	1,818.0	2.4	3.3	6.3	1.04	-0.46	-105.83
1,904.0	0.49	357.34	1,904.0	1.9	4.0	6.2	0.12	0.10	6.97
1,991.0	0.40	343.15	1,991.0	1.3	4.6	6.1	0.16	-0.10	-16.31
2,076.0	0.88	286.76	2,076.0	0.5	5.1	5.4	0.87	0.56	-66.34
2,162.0	0.62	307.72	2,161.9	-0.6	5.6	4.4	0.43	-0.30	24.37

RECEIVED: Sep. 16, 2014



# Payzone Directional

## End of Well Report



**Company:** Bill Bairrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 21 T2S, R2E  
**Well:** FD 12-21-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** Well FD 12-21-2-2  
**MD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**North Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**Survey Calculation Method:** True  
**Database:** Minimum Curvature  
 EDM 5000.1 Single User Db

Well FD 12-21-2-2  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
2,248.0	0.71	287.14	2,247.9	-1.5	6.0	3.5	0.29	0.10	-23.93
2,334.0	0.62	287.76	2,333.9	-2.4	6.3	2.6	0.10	-0.10	0.72
2,420.0	0.40	150.23	2,419.9	-2.5	6.2	2.3	1.11	-0.26	-159.92
2,505.0	0.31	184.02	2,504.9	-2.1	5.7	2.4	0.26	-0.11	39.75
2,591.0	0.40	202.93	2,590.9	-1.9	5.2	2.3	0.17	0.10	21.99
2,676.0	0.62	160.45	2,675.9	-1.4	4.5	2.3	0.50	0.26	-49.98
2,761.0	0.62	170.32	2,760.9	-0.6	3.6	2.6	0.13	0.00	11.61
2,847.0	0.62	157.85	2,846.9	0.2	2.7	2.8	0.16	0.00	-14.50
2,932.0	0.49	168.56	2,931.9	0.9	1.9	3.1	0.20	-0.15	12.60
3,018.0	0.62	142.16	3,017.9	1.7	1.2	3.4	0.33	0.15	-30.70
3,104.0	0.49	144.63	3,103.9	2.5	0.5	3.9	0.15	-0.15	2.87
3,192.0	0.62	163.23	3,191.9	3.3	-0.2	4.3	0.25	0.15	21.14
3,277.0	0.49	144.23	3,276.9	4.0	-1.0	4.6	0.26	-0.15	-22.35
3,362.0	0.80	163.45	3,361.9	4.9	-1.8	5.0	0.44	0.36	22.61
3,448.0	0.80	148.86	3,447.9	6.0	-2.9	5.5	0.24	0.00	-16.97
3,534.0	0.62	170.54	3,533.9	6.9	-3.9	5.9	0.37	-0.21	25.21
3,619.0	0.31	183.14	3,618.9	7.5	-4.6	5.9	0.38	-0.36	14.82
3,704.0	0.71	177.64	3,703.9	8.0	-5.3	5.9	0.47	0.47	-6.47
3,792.0	0.22	134.36	3,791.9	8.5	-6.0	6.1	0.65	-0.56	-49.18
3,878.0	0.40	195.04	3,877.9	8.8	-6.4	6.1	0.41	0.21	70.56
3,963.0	0.40	174.55	3,962.9	9.2	-7.0	6.1	0.17	0.00	-24.11
4,050.0	0.09	221.92	4,049.9	9.4	-7.3	6.1	0.40	-0.36	54.45
4,135.0	0.31	41.03	4,134.9	9.4	-7.2	6.2	0.47	0.26	210.72
4,221.0	0.62	7.83	4,220.9	9.2	-6.6	6.4	0.46	0.36	-38.60
4,308.0	0.80	19.74	4,307.8	8.6	-5.5	6.7	0.27	0.21	13.69
4,393.0	0.88	14.45	4,392.8	8.1	-4.3	7.0	0.13	0.09	-6.22
4,479.0	0.88	35.34	4,478.8	7.7	-3.2	7.6	0.37	0.00	24.29



# Payzone Directional

## End of Well Report



**Company:** Bill Bairrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 21 T2S, R2E  
**Well:** FD 12-21-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**MD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

Well FD 12-21-2-2  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
4,564.0	0.62	51.73	4,563.8	7.7	-2.3	8.3	0.39	-0.31	19.28
4,651.0	0.31	5.76	4,650.8	7.6	-1.8	8.7	0.53	-0.36	-52.84
4,737.0	0.09	309.84	4,736.8	7.4	-1.5	8.7	0.31	-0.26	-65.02
4,823.0	0.80	317.02	4,822.8	6.7	-1.1	8.2	0.83	0.83	8.35
4,908.0	0.71	305.03	4,907.8	5.6	-0.3	7.4	0.21	-0.11	-14.11
4,995.0	0.88	305.12	4,994.8	4.4	0.4	6.4	0.20	0.20	0.10
5,080.0	0.62	298.95	5,079.8	3.3	1.0	5.4	0.32	-0.31	-7.26
5,166.0	0.71	286.26	5,165.8	2.4	1.3	4.5	0.20	0.10	-14.76
5,251.0	0.49	267.53	5,250.8	1.7	1.5	3.7	0.34	-0.26	-22.04
5,342.0	0.31	267.22	5,341.8	1.2	1.4	3.0	0.20	-0.20	-0.34
5,433.0	0.71	224.83	5,432.8	1.0	1.0	2.4	0.58	0.44	-46.58
5,518.0	0.49	199.54	5,517.8	1.2	0.3	1.9	0.40	-0.26	-29.75
5,604.0	0.31	149.83	5,603.8	1.5	-0.2	1.9	0.43	-0.21	-57.80
5,690.0	0.71	129.56	5,689.8	2.3	-0.8	2.4	0.50	0.47	-23.57
5,776.0	0.71	114.44	5,775.8	3.3	-1.3	3.3	0.22	0.00	-17.58
5,861.0	0.80	84.83	5,860.8	4.2	-1.5	4.4	0.47	0.11	-34.84
5,983.0	1.10	163.14	5,982.7	5.8	-2.5	5.6	1.00	0.25	64.19
6,074.0	2.30	69.36	6,073.7	7.4	-2.7	7.5	2.87	1.32	-103.05
6,154.0	2.92	52.53	6,153.6	8.4	-0.9	10.6	1.22	0.77	-21.04
6,240.0	2.30	33.14	6,239.5	8.5	1.8	13.3	1.24	-0.72	-22.55
6,325.0	1.68	10.25	6,324.5	7.5	4.5	14.5	1.17	-0.73	-26.93
6,413.0	1.19	350.95	6,412.5	6.1	6.7	14.6	0.77	-0.56	-21.93
6,498.0	0.80	358.05	6,497.4	5.0	8.1	14.4	0.48	-0.46	8.35
6,588.0	0.31	8.23	6,587.4	4.4	9.0	14.4	0.55	-0.54	11.31
6,673.0	0.22	354.74	6,672.4	4.2	9.4	14.4	0.13	-0.11	-15.87
6,761.0	0.31	10.25	6,760.4	3.9	9.8	14.5	0.13	0.10	17.62
6,846.0	0.22	126.83	6,845.4	3.9	9.9	14.6	0.53	-0.11	137.15

RECEIVED: Sep. 16, 2014



# Payzone Directional

## End of Well Report



**Company:** Bill Bairrett Corporation  
**Project:** Fort Duchesne  
**Site:** SECTION 21 T2S, R2E  
**Well:** FD 12-21-2-2  
**Wellbore:** Wellbore #1  
**Design:** Actual

**Local Co-ordinate Reference:**  
**TVD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**MD Reference:** FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** EDM 5000.1 Single User Db

Well FD 12-21-2-2  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)  
 True  
 Minimum Curvature  
 EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	D/Leg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	6,931.0	0.40	142.25	6,930.4	4.4	9.6	15.0	0.23	0.21	18.14
	7,020.0	0.80	130.22	7,019.4	5.3	8.9	15.6	0.47	0.45	-13.52
	7,107.0	1.28	140.05	7,106.4	6.9	7.8	16.7	0.59	0.55	11.30
	7,192.0	1.50	129.34	7,191.4	8.9	6.4	18.2	0.40	0.26	-12.60
	7,278.0	1.90	174.86	7,277.4	11.1	4.2	19.2	1.59	0.47	52.93
	7,365.0	1.90	181.16	7,364.3	13.2	1.4	19.3	0.24	0.00	7.24
	7,453.0	1.28	169.04	7,452.3	14.9	-1.1	19.4	0.80	-0.70	-13.77
	7,538.0	1.41	154.72	7,537.3	16.7	-2.9	20.1	0.42	0.15	-16.85
	7,626.0	1.41	157.44	7,625.2	18.7	-4.9	20.9	0.08	0.00	3.09
	7,711.0	1.19	145.55	7,710.2	20.5	-6.6	21.8	0.41	-0.26	-13.99
	7,799.0	1.02	112.24	7,798.2	22.1	-7.7	23.1	0.74	-0.19	-37.85
	7,890.0	1.19	78.53	7,889.2	23.4	-7.8	24.8	0.73	0.19	-37.04
	7,977.0	1.59	65.22	7,976.2	24.4	-7.1	26.7	0.59	0.46	-15.30
	8,065.0	1.28	44.33	8,064.1	24.9	-5.9	28.5	0.69	-0.35	-23.74
	8,153.0	0.71	348.22	8,152.1	24.5	-4.6	29.1	1.21	-0.65	-63.76
	8,238.0	0.31	267.75	8,237.1	23.9	-4.1	28.8	0.85	-0.47	-94.67
	8,324.0	0.71	137.64	8,323.1	24.2	-4.5	28.9	1.09	0.47	-151.29
	8,412.0	1.28	143.04	8,411.1	25.7	-5.7	29.9	0.66	0.65	6.14
	8,497.0	1.19	142.73	8,496.1	27.5	-7.2	31.0	0.11	-0.11	-0.36
	8,583.0	0.62	186.05	8,582.1	28.7	-8.4	31.4	0.99	-0.66	50.37
	8,668.0	1.02	206.63	8,667.1	29.2	-9.5	31.1	0.58	0.47	24.21
	8,753.0	1.10	177.33	8,752.0	30.0	-11.0	30.8	0.64	0.09	-34.47
	8,841.0	1.10	180.46	8,840.0	31.2	-12.7	30.8	0.07	0.00	3.56
	8,927.0	1.41	172.83	8,926.0	32.5	-14.5	30.9	0.41	0.36	-8.87
	9,012.0	0.88	168.82	9,011.0	33.9	-16.2	31.2	0.63	-0.62	-4.72
	9,055.0	1.19	185.43	9,054.0	34.4	-17.0	31.2	1.00	0.72	38.63
	9,140.0	1.19	177.94	9,139.0	35.6	-18.8	31.1	0.18	0.00	-8.81



# Payzone Directional

## End of Well Report



<b>Company:</b> Bill Bairrett Corporation	<b>Local Co-ordinate Reference:</b> Well FD 12-21-2-2
<b>Project:</b> Fort Duchesne	<b>TVD Reference:</b> FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)
<b>Site:</b> SECTION 21 T2S, R2E	<b>MD Reference:</b> FD 12-21-2-2 @ 5134.0usft (CAPSTAR 330)
<b>Well:</b> FD 12-21-2-2	<b>North Reference:</b> True
<b>Wellbore:</b> Wellbore #1	<b>Survey Calculation Method:</b> Minimum Curvature
<b>Design:</b> Actual	<b>Database:</b> EDM 5000.1 Single User Db

Survey	MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)
	9,225.0	1.28	184.25	9,223.9	36.8	-20.6	31.1	0.19	0.11	7.42
	9,311.0	1.50	178.43	9,309.9	38.2	-22.7	31.1	0.30	0.26	-6.77
	9,557.0	1.50	178.43	9,555.8	42.7	-29.1	31.2	0.00	0.00	0.00

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



**FD 12-21-2-2 7/11/2014 16:00 - 7/12/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	14.00	06:00	1	RIGUP & TEARDOWN	MOVE RIG FROM 7-18-2-2 BLM NOTIFIED ON 7/11/2014 @ 630 FOR SURFACE CASING AND B.O.Ps TESTING RDRT 75% MOVED

**FD 12-21-2-2 7/12/2014 06:00 - 7/13/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	1	RIGUP & TEARDOWN	FINISH MOVING RIG AND RIGGING UP
15:00	15.00	06:00	1	RIGUP & TEARDOWN	WORK ON DRAW WORKS REPLACE KICK PADS AND WORN OUT BREAK PADS AND LINKAGE

**FD 12-21-2-2 7/13/2014 06:00 - 7/14/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	13.00	19:00	1	RIGUP & TEARDOWN	WORK ON DRAW TOOL (BRAKE BANDS HOSES) WORK ON IORN ROUGH NECK
19:00	1.00	20:00	1	RIGUP & TEARDOWN	RIG UP REST OF FLOOR AND PREP TOP DRIVE FOR SURFACE DRILLING
20:00	2.50	22:30	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS, REAMERS,SHOCK SUB RIG ON DAY WORK @ 19:00
22:30	7.50	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 91'-735' (644') 105' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=20K OFF BOTTOM PRESSURE=1193 PSI DIFF PRESS=150-300PSI TQ=7K

**FD 12-21-2-2 7/14/2014 06:00 - 7/15/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	2	DRILL ACTUAL	STEERABLE DRILLING 12 1/4 SURFACE F/ 735'-1540' (805') 134' FPH AVG GPM=691 TOPDRIVE RPM=40 MOTOR RPM=117 TOTAL RPM=157 WT ON BIT=20K OFF BOTTOM PRESSURE=1193 PSI DIFF PRESS=150-300PSI TQ=7K
12:00	1.00	13:00	5	COND MUD & CIRC	CIRCULATE SWEEP AROUND
13:00	1.00	14:00	6	TRIPS	SHORT TRIP TO 8"
14:00	1.00	15:00	6	TRIPS	CIRCULATE AROUND SWEEP
15:00	3.00	18:00	6	TRIPS	TRIP OUT FOR CASING RUN
18:00	2.50	20:30	21	OPEN	RIG UP TO RUN 9 5/8 CASING
20:30	5.50	02:00	12	RUN CASING & CEMENT	RUN 9 5/8 J-55 36# ST&C CASING GUIDE SHOE 1 JNT CASING FLOAT 36 JNTS 10 CENTRALIZERS
02:00	1.50	03:30	12	RUN CASING & CEMENT	WASH LAST 100' OF CASING TO BOTTOM
03:30	2.50	06:00	12	RUN CASING & CEMENT	CIRCULATE AND WORK PIPE FOR CEMENT JOB RIG UP CEMENTERS

**FD 12-21-2-2 7/15/2014 06:00 - 7/16/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	12	RUN CASING & CEMENT	SAFETY MEETING WITH HALLIBURTON CEMENT CREW -TEST LINES @ 5000 PSI, 20 BBLS FRESH WATER 40 BBLS SUPER FLUSH @ 10 PPG 20 BBLS WATER 112 BBLS LEAD CEMENT 200 SKS @ 11 PPG YP 3.15 GAL/SK 19.38 57 BBLS TAIL CEMENT 240 SKS @ 14.8 PPG YP 1.48 GAL/SK 6.33 SHUT DOWN WASH UP LINES DROP PLUG DISPLACE WITH 115.4 FRESH WATER FINAL LIFT PRESURE 480 PSI BUMP THE PLUG @ 1080 PSI 50 BBLS OF CEMENT BACK TO SURFACE FLOATS HELD
08:30	1.00	09:30	12	RUN CASING & CEMENT	RIG DOWN CEMENT HEAD RIG UP 1' LINE AND TOP OUT WITH 15.6 20 BBLS OF CEMENT
09:30	3.50	13:00	13	WAIT ON CEMENT	WOC, RELEASE HALLIBURTON AFTER ONE HOUR
13:00	2.00	15:00	21	OPEN	PICK UP CONDUTOR CUT CASING AND LAY DOWN INSTALL AND WELD CAMERON 11" 5M X 9-5/8" SOW CASING HEAD

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:00	4.00	19:00	14	NIPPLE UP B.O.P	NIPPLE UP B.O.Ps
19:00	4.50	23:30	15	TEST B.O.P	TEST B.O.Ps TEST 5000 HIGH F/10 MINS LOWER AND UPPER KELLY VALVE F.O.S.V AND DART VALVE PIPE RAMS INSIDE VALVES HCR, KILL LINE CHOKE LINE, CHECK VALVE INSIDE MANIFOLD VALVES BLIND RAMS SUPER CHOKE TEST 2500 PSI HIGH ANNULAR TEST SURFACE CASING TO 1500 PSI FOR 30 MINS) BLM/UDOG NOTIFIED OF TEST 7/13/14 @ 7:30
23:30	0.50	00:00	21	OPEN	INSTALL WARE BUSHING
00:00	3.50	03:30	20	DIRECTIONAL WORK	PICK UP DIRECTIONAL TOOLS SCRIBE
03:30	1.50	05:00	6	TRIPS	TRIP IN THE HOLE
05:00	1.00	06:00	2	DRILL ACTUAL	DRILL OUT CEMENT, FLOAT & SHOE DRILL 20' NEW HOLE

**FD 12-21-2-2 7/16/2014 06:00 - 7/17/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	21	OPEN	PUMP LCM SWEEP PERFORM EMW TEST 148 PSI 10.5 PPG MUD WEIGHT
06:30	11.00	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 1560'-3381' (1821') 165' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=20K OFF BOTTOM PRESSURE=1400 PSI DIFF PRESS=150-300PSI TQ=3K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE FUNCTION TEST PIPE RAMS, B.O.P DRILL @ 1730 1 MIN EQU
18:00	11.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 3381'-4925' (1544') 134' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=23K OFF BOTTOM PRESSURE=1500 PSI DIFF PRESS=150-300PSI TQ=3K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE MORNING TOUR B.O.P DRILL @ 5:30 1 MIN 10 SECS

**FD 12-21-2-2 7/17/2014 06:00 - 7/18/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 4925'-5416' (501') 44' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=23K OFF BOTTOM PRESSURE=1500 PSI DIFF PRESS=150-300PSI TQ=3K
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	2.00	20:00	21	OPEN	CHANGE OUT SWIVEL PACKING
20:00	9.50	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5416'-5664' (248') 28' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=4K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/18/2014 06:00 - 7/19/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.50	13:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5664'-5836' (172') 24' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
13:30	0.50	14:00	7	LUBRICATE RIG	RIG SERVICE
14:00	5.50	19:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5836'-5942' (104') 18' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
19:30	2.00	21:30	5	COND MUD & CIRC	PULL 5 JOINTS CIRCULATE AND GET MUD PROPERTIES CORRECT BRING UP LCM CONTENT TO 15% TO SLOW DOWN SEEPAGE TRIP TO BOTTOM DISPALCE 15 BBLs LCM PILL ON BOTTOM
21:30	7.00	04:30	6	TRIPS	TRIP OUT OF HOLE FOR BIT PULL TEN JOINTS FLOW CHECK
04:30	1.50	06:00	20	DIRECTIONAL WORK	LAY DOWN B.H.A

**FD 12-21-2-2 7/19/2014 06:00 - 7/20/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	20	DIRECTIONAL WORK	MAKE UP BIT AND DIRECTIONAL TOOLS SCRIBE MOTOR
07:00	4.50	11:30	6	TRIPS	TRIP IN THE HOLE
11:30	1.00	12:30	3	REAMING	WSAH AND REAM LAST 500' TO BOTTOM
12:30	2.00	14:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5942'-5992' (50') 14' FPH AVG GPM=466 TOPDRIVE RPM=40 MOTOR RPM=79 TOTAL RPM=119 WT ON BIT=24K OFF BOTTOM PRESSURE=1750 PSI DIFF PRESS=150-300PSI TQ=3-5K
14:30	1.00	15:30	5	COND MUD & CIRC	PICK UP BUILD VOLUME FLOW 30% TRAIN LCM 30 PPB SWEEPS DOWN HOLE RUBBLE AND BED ROCK COMING ACROSSED THE SHAKERS
15:30	14.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 5992'-6470' (478') 33' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K (DRILL WITH 30% RETURNS @ 6140 REGAIN FULL RETURNS)
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/20/2014 06:00 - 7/21/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6470'-6865' (395') 41' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K
16:00	0.50	16:30	7	LUBRICATE RIG	RIG SERVICE
16:30	13.00	05:30	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 6865'-7423' (558') 43' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=18K OFF BOTTOM PRESSURE=1450 PSI DIFF PRESS=150-300PSI TQ=3-5K
05:30	0.50	06:00	7	LUBRICATE RIG	RIG SERVICE

**FD 12-21-2-2 7/21/2014 06:00 - 7/22/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7423'-7904' (558') 43' FPH AVG GPM=410 TOPDRIVE RPM=40 MOTOR RPM=69 TOTAL RPM=109 WT ON BIT=25K OFF BOTTOM PRESSURE=1820 PSI DIFF PRESS=150-300PSI TQ=3-5K ( WELL SEEPING 20-30 BBLS A HOUR BBG 120-200 UNITS)
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	10.00	04:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ 7904'-8343' (439') 44' FPH AVG GPM=350 TOPDRIVE RPM=40 MOTOR RPM=56 TOTAL RPM=96 WT ON BIT=27K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=3-5K  (WELL SEEPING WITH 78% RETURNS BETWEEN 30-40 BBLS AN HOUR BYPASS SHAKERS @ 21:30 AND BRING UP LCM CONTENT TO 20% BBG 112-600 UNITS)
04:00	1.00	05:00	5	COND MUD & CIRC	PICK UP CIRCULATE AND MONITOR WELL FOR LOSSES AND BBG
05:00	1.00	06:00	2	DRILL ACTUAL	STEERABLE DRILLING 8 3/4 PRODUCTION F/ -8343'-8410' (67') 67' FPH AVG GPM=350 TOPDRIVE RPM=40 MOTOR RPM=56 TOTAL RPM=96 WT ON BIT=27K OFF BOTTOM PRESSURE=1600 PSI DIFF PRESS=150-300PSI TQ=3-5K

**FD 12-21-2-2 7/22/2014 06:00 - 7/23/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	2	DRILL ACTUAL	STEERABLE DRILLING F/ 8410'-8427'
07:00	8.50	15:30	3	REAMING	BACK REAM OUT OF THE HOLE DUE TO LOSSES AND FLUCTUATION IN FLOW BACK REAM WITH 70 SPM 50%-70% RETURNS TO SHOE @ 1540' TIGHT SPOT @ 6000'-5800
15:30	2.00	17:30	6	TRIPS	TRIP OUT ON TRIP TANKS FROM 1540'-0

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	1.50	19:00	6	TRIPS	LAY DOWN B.H.A HWDP AND DCs ON TRIP TANKS TAKING CORRECT DISPALCEMENT. Bit was severely balled up
19:00	2.00	21:00	21	OPEN	CHANGE OUT BITS AND MUD MOTOR SCRIBE MOTOR
21:00	1.50	22:30	6	TRIPS	TRIP IN B.H.A
22:30	1.00	23:30	9	CUT OFF DRILL LINE	SLIP AND CUT 60'
23:30	1.50	01:00	6	TRIPS	TRIP IN HOLE TO 1800'
01:00	2.50	03:30	3	REAMING	WASH AND REAM FROM 1800'-2926' 70 SPM FULL RETURNS
03:30	2.00	05:30	6	TRIPS	TRIP IN TO THE HOLE TAKING CORRECT DISPLACMENT
05:30	0.50	06:00	3	REAMING	WASH AND REAM LOST RETURNS STAGE OUT OF HOLE TO REGAIN RETURNS

**FD 12-21-2-2 7/23/2014 06:00 - 7/24/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	6	TRIPS	Tih. W&R w/85 strokes. Torquey and tight @ 5800'-6000'. Stage in breaking circ every 500' from 7000'.
14:00	3.50	17:30	2	DRILL ACTUAL	Steerable drlg 8427' - 8514'. Wob 20k, rpm 40-60/65, spp 1600 psi, dp 100 psi, 380 gpm, rop 25 fph. Losses minimized, shake out lcm and put in fresh - 8%.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service.
18:00	11.50	05:30	2	DRILL ACTUAL	Steerable drlg 8514' - 8899'. Wob 25k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 37 fph.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 12-21-2-2 7/24/2014 06:00 - 7/25/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Steerable drlg 8899' - 9158'. Wob 28k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 25 fph. Well seeping, losing 40 bbls/hr.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	12.50	05:30	2	DRILL ACTUAL	Steerable drlg 9158' - 9368'. Wob 28k, rpm 40-60/70, spp 1600 psi, dp 100 psi, 410 gpm, rop 17 fph. Well seeping, losing 40 bbls/hr. Pull shaker screens, bring lcm to 20% @ 22:00 hrs.
05:30	0.50	06:00	7	LUBRICATE RIG	Rig Service.

**FD 12-21-2-2 7/25/2014 06:00 - 7/26/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	2	DRILL ACTUAL	Steerable drlg 9368' - 9400'. Wob 28k, rpm 40-60/70, spp 2600 psi, dp 100 psi, 410 gpm, rop 16 fph. Well stable, full circulation.
08:00	1.50	09:30	21	OPEN	Plugged drill string w/sweep, worked free. Remove and clean SPP transducer.
09:30	3.00	12:30	2	DRILL ACTUAL	Steerable drlg 9400' - 9428'. Wob 28k, rpm 40-60/70, spp 2600 psi, dp 100 psi, 410 gpm, rop 9 fph. Well stable, full circulation.
12:30	1.50	14:00	5	COND MUD & CIRC	C&C mud. Build clean mud f/dp, pump pill.
14:00	8.00	22:00	6	TRIPS	Toh. Tight @ 6000'.
22:00	1.00	23:00	20	DIRECTIONAL WORK	LD dir tools, XO bit.
23:00	7.00	06:00	6	TRIPS	Tih.

**FD 12-21-2-2 7/26/2014 06:00 - 7/27/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Finish tih. Wash through tight spots @ 6000', 7250'.
09:00	7.00	16:00	2	DRILL ACTUAL	Drilling 9428' - 9557'. Wob 20k, rpm 40-60/70, spp 2600 psi, dp 300 psi, 410 gp, rop 18 fph. Well stable, full circulation. TD well @ 9557' @ 16:00.
16:00	1.50	17:30	5	COND MUD & CIRC	C&C mud, sweep hole, pump pill.
17:30	8.50	02:00	6	TRIPS	TOH. LD BHA.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:00	0.50	02:30	21	OPEN	Pull wear bushing, LD cushion sub.
02:30	3.50	06:00	12	RUN CASING & CEMENT	Rig up & start running 5 1/2", P-110, 17#, LT&C csg - details on next report.

**FD 12-21-2-2 7/27/2014 06:00 - 7/28/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	12	RUN CASING & CEMENT	Run 5 1/2", 17#, P-110, LT&C casing as follows: fit shoe, 2 jts csg, fit sub, 18 jts csg, mj @ 8641', 14 jts csg, mj @ 7956', 180 jts csg(214 total), 22' spacer jt. PU jt #215, tag bottom @ 9557'.
13:00	3.50	16:30	5	COND MUD & CIRC	Reciprocate csg, C&C mud f/cement job.LD stroke jt, PU LJ. Good circulation, seeping 10 bbls/hr.
16:30	5.00	21:30	12	RUN CASING & CEMENT	HSM. Cement prod csg as follows: Test lines to 5000 psi. Pump 20 bbls H2O spacer, 20 bbl flush @ 10 ppg, 20 bbl H2O spacer, 40 bbl Tuned spacer @ 10 ppg. Mix and pump 855 sx (356 bbls) tuned lite lead @ 11 ppg, 2.34 yld, 10.1 gps h2o. Tail in with 1055 sx (272 bbls) Expandacem @ 13.5 ppg, 1.45 yld, 6.91 gps h2o. Wash up to pit, drop plug, displace with 214 bbls Cla-web/Aldicide @ 8.34 ppg. Max pressure 1750 psi, bump plug to 2250 psi. Bled back 1.5 bbls, floats held. Partial returns, lost returns@ 10 bbls into displacement, got back 20% returns 120 bbls in, no cement to surface. R/D HES.
21:30	2.50	00:00	21	OPEN	NDBOP. Packoff and test hanger.
00:00	6.00	06:00	21	OPEN	Clean pits. Rig released @ 06:00.

**FD 12-21-2-2 7/29/2014 06:00 - 7/30/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	IWHD	Install Wellhead	HSM. CHECK PRESSURE. ND 11" NIGHT CAP. CLEAN HANGER MANDREL. NU 7" 5K TBG HEAD. PRES TEST VOID AND SEALS. GOOD. NU 7" NIGHT CAP. WELL SECURE.
08:00	9.00	17:00	LOGG	Logging	HSM MIRU HES LOGGING. RIH W/ GR/JB TO TAG FILL AT 9358'. DRLG SHOWS FC AT 9464' (106' FILL). RUN RMT/CBL-M LOG. SHOWS GOOD CMT TD TO 4950' FAIR CMT 4950'-4853'. TOC EST AT 4850'. SHORT JOINTS AT 7992'-8014' & 8633'-8655' DID NOT HOLD PSI
17:00	1.00	18:00	SRIG	Rig Up/Down	RDMO OUT HES
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 12-21-2-2 8/12/2014 06:00 - 8/13/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	7.00	13:00	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.  HEATED FRAC LINE
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

**FD 12-21-2-2 8/13/2014 06:00 - 8/14/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

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

**FD 12-21-2-2 8/14/2014 06:00 - 8/15/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	SRIG	Rig Up/Down	MIRU CASED HOLE SOLUTIONS WITH 5" 10K LUBE.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:30	1.00	09:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 50 PSI. RIH AND CORRELATE TO SJ AT 7992'-8014' & 8633'-8655'. RUN DOWN & PERF 8911'-8323' WITH 48 HOLES IN 16' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
09:30	3.00	12:30	SRIG	Rig Up/Down	RU HES FRAC FLEET.
12:30	17.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

**FD 12-21-2-2 8/15/2014 06:00 - 8/16/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.01	06:00	SMTG	Safety Meeting	AOL 04:30. 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
06:00	1.08	07:05	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 7100 PSI. OPEN WELL W/ 30 PSI AT 5:55AM BREAK DOWN 3118 PSI AT 10.1 BPM. PMP 3900 GAL 15% HCL ACID W/ 96 BIO BALLS FOR DIVERSION. 9.9 BPM AT 2450 PSI. FLUSH W/ 8701 GAL. 29.6 BPM AT 2980 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.  STAGE FR PAD. STABLE RATE OF 69.7 BPM AT 3785 PSI. ISDP 2434 . FG .70. PERFS OPEN 42/48  ISIP 2479 , FG .71, MR 69.9 BPM, AR 69.5 BPM, MP 3699 PSI, AP 3315 PSI 100 MESH 13,700 lbs. .75 ppg 20/40 WHITE 145,900 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 2007 BBL, 20# HYBOR G (15) 953 BBL, BTR 3065 BBL  (STAGE SCORE 9.5 )  SHUT IN AND TURN OVER TO CASEDHOLE.
07:05	1.41	08:30	PFRT	Perforating	PERF STG #2- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 2200 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 8589'-8607'. RUN DOWN AND SET 5-1/2" CBP AT 8869' WITH 2150 PSI. PULL UP AND PERF BLACK SHALE & CASTLE PEAK 8579'-8849' WITH 42 HOLES IN 14' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 1400 PSI. TURN WELL OVER TO HES.
08:30	1.17	09:40	FRAC	Frac. Job	FRAC STG 2 PRESSURE TEST LINES TO 6900 PSI. OPEN WELL W/ 890 PSI AT 8:35AM BREAK DOWN 4286 PSI AT 9.7 BPM. PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10 BPM AT 2780 PSI. FLUSH W/ 8377 GAL. 29.3 BPM AT 3846 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.  STAGE FR PAD. STABLE RATE OF 69.5 BPM AT 4465 PSI. ISDP 2886 . FG .77 PERFS OPEN 36/42  ISIP 3219 , FG .81, MR 69.7 BPM, AR 69.4 BPM, MP 4181 PSI, AP 3871 PSI 100 MESH 14,300 lbs. .5 ppg 20/40 WHITE 145,300 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg SLK WTR 1608 BBL, 20# HYBOR G (16) 1111 BBL, BTR 2812 BBL  (STAGE SCORE 10 )  SHUT IN AND TURN OVER TO CASEDHOLE.
09:40	1.10	10:46	PFRT	Perforating	PERF STG #3- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 2900 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7992'-8014'. RUN DOWN AND SET 5-1/2" CBP AT 8562' WITH 2800 PSI. PULL UP AND PERF DOUGLAS CREEK FORM 8282'-8542' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN WITH 2600 PSI. TURN WELL OVER TO HES.



## Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
10:46	1.23	12:00	FRAC	Frac. Job	<p>FRAC STG 3            PRESSURE TEST LINES TO 6800 PSI.            OPEN WELL W/ 2590 PSI AT 11:00            BREAK DOWN 3451 PSI AT 10 BPM.            PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10.2 BPM AT 2550 PSI.            FLUSH W/ 8087 GAL. 29.7 BPM AT 3090 PSI. BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 69.5 BPM AT 4518 PSI. ISDP 2793 . FG .77.            PERFS OPEN 33/45</p> <p>ISIP 3130 , FG .81, MR 69.8 BPM, AR 69.5 BPM, MP 4410 PSI, AP 3977 PSI            100 MESH 13,800 lbs. .75 ppg            20/40 WHITE 145,700 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 1744 BBL, 20# HYBOR G (15) 943 BBL, BTR 2780 BBL</p> <p>(STG SCORE 7 )            TREATER START GELLING AND XLINK IN 20/40 SLICK WATER STG. LEFT CHEMS            AND GEL RUNNING FOR REMAINDER OF THE STG AS XLINK.</p> <p>SHUT IN AND TURN OVER TO CASED HOLE.</p>
12:00	4.34	16:20	PFRT	Perforating	<p>PERF STG #4- PU HES 5-1/2" 10K CBP AND GUNS FOR STAGE 4 INTO LUBE AND            EQUALIZE 2650 PSI. OPEN WELL AND RIH. CORRELATE TO SJ AT 7992'-8014'.</p> <p>(MISRUN PLUG DID NOT TRY TO SET POOH FOUND WATER IN GUN# 8            CONFIRMED WITH DENVER ABOUT RIH WITH 14 GUNS INSTEAD OF DESIGN OF            15)</p> <p>RUN DOWN AND SET 5-1/2" CBP AT 8272' WITH 2650 PSI. PULL UP AND PERF            TGR3 FORM 7955'-8252' WITH 42 HOLES IN 14' NET. POOH AND VERIFY ALL            GUNS SHOT. SHUT IN WITH 2600 PSI. TURN WELL OVER TO HES.</p>
16:20	1.33	17:40	FRAC	Frac. Job	<p>FRAC STG 4            PRESSURE TEST LINES TO 7000 PSI.            OPEN WELL W/ 2580 PSI AT 16:25            BREAK DOWN 3250 PSI AT 9.7 BPM.            PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10 BPM AT 2440            PSI.            FLUSH W/ 7767 GAL. 29.5 BPM AT 3020 PSI BALL OUT.            SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 70.9 BPM AT 4768 PSI. ISDP 2633 . FG .77.            PERFS OPEN 31/42</p> <p>ISIP 2652 , FG .77, MR 73.7 BPM, AR 72.9 BPM, MP 4676 PSI, AP 3821 PSI            100 MESH 14,080 lbs. .75 ppg            20/40 WHITE 131,340 lbs 2.0, 2.0-5.0 RAMP, 5.0 ppg            SLK WTR 1827 BBL, 20# HYBOR G (16) 1180 BBL, BTR 3088 BBL</p> <p>(STG SCORE 10)</p> <p>SHUT IN, REMOVE STAND PIPES AND TURN OVER TO CASED HOLE.</p>
17:40	1.00	18:40	WLWK	Wireline	KILL PLUG- PU 5-1/2" HES PLUG AND SETTING TOOLS INTO LUBE. EQUALIZE 2450 PSI. RIH AND SET KILL PLUG AT 7855' WITH 2400 PSI. BLEED OFF AS POOH.
18:40	2.50	21:10	SRIG	Rig Up/Down	RDMO HES AND CASED HOLE.
21:10	8.83	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN AND SECURE

## FD 12-21-2-2 8/16/2014 06:00 - 8/17/2014 06:00

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	0.50	07:30	SRIG	Rig Up/Down	ROAD RIG TO LOCATION.
07:30	1.00	08:30	BOPI	Install BOP's	ND FRAC VALVES. NU BOP AND STRIP HEAD.
08:30	1.00	09:30	SRIG	Rig Up/Down	RUSU. RU FLOOR. PU PWR SWIVEL.
09:30	2.00	11:30	GOP	General Operations	SPOT CATWALK AND PIPE RACKS. UNLOAD 303-JTS 2-7/8" L-80 TBG.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:30	3.00	14:30	RUTB	Run Tubing	MU 4-3/4" BIT, POBS, 1-JT TBG, AND PSN. RIH AS MEAS AND PU 248-JTS 2-7/8" L-80 TBG.
14:30	0.50	15:00	PTST	Pressure Test	RU PWR SWIVEL. FILL TBG. PRES TEST BOP AND LINES TO 1000 PSI.
15:00	2.00	17:00	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS  CBP #1 AT 7855'. 0' FILL. D/O IN 10 MIN. 1250 PSI ON 32/64" CBP #2 AT 8272'. 18' FILL. D/O IN 5 MIN. 1150 PSI ON 33/64" CBP #3 AT 8562'. 20' FILL. D/O IN 5 MIN. 1050 PSI ON 32/64" CBP #4 AT 8869'. 13' FILL. D/O IN 4 MIN. 1200 PSI ON 30/64"
17:00	0.50	17:30	CTU	Clean Out	CIRC CLEAN. RD PWR SWIVEL.
17:30	12.50	06:00	FBCK	Flowback Well	CREW TRAVEL. TURN TO FBC AND TREATER AT 18:00 - 1750 PSI ON 16/64".

**FD 12-21-2-2 8/17/2014 06:00 - 8/18/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING 750 PSI ON 20/64".
07:00	1.50	08:30	CTU	Clean Out	RIH W/ BIT AND POBS ON TBG. C/O 22' FILL TO FC AT 9463'. D/O 58' CMT TO 9521' (PBTB).
08:30	0.50	09:00	SRIG	Rig Up/Down	RD PWR SWIVEL AS CIRC CLEAN.
09:00	1.00	10:00	PULT	Pull Tubing	POOH AS LD 53-JTS TBG.
10:00	1.00	11:00	BOPR	Remove BOP's	LUBE IN AND LAND HANGER. RD FLOOR. ND BOP. NU WH.  TBG DETAIL KB 13.00 HANGER .85 245-JTS 2-7/8" L-80 7790.88 PSN 1.10 1-JT 2-7/8" L-80 31.83 POBS .64  EOT AT 7838.31
11:00	0.50	11:30	GOP	General Operations	POBS AT 2800 PSI. PLUMB IN WELL HEAD. TURN OVER TO FBC AND PROD. FTP 800 PSI ON 12/64. SICP 950 PSI.
11:30	18.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL TURNED OVER TO FBC AND SALES.

**FD 12-21-2-2 8/20/2014 06:00 - 8/21/2014 06:00**

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53763	UT	Uintah	Fort Duchesne	PRODUCING	9,557.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.50	08:30	BOPI	Install BOP's	PUMP 250 BBLs HOT WTR DOWN TBG. ND WH. NU BOP. RU FLOOR
08:30	2.50	11:00	PULT	Pull Tubing	POOH W/ TBG AND POBS.
11:00	2.50	13:30	RUTB	Run Tubing	MU PROD BHA AND RIH W/ TBG.  TBG DETAIL KB 13.00 HANGER .85 STRETCH 2.87 242-JTS 2-7/8" L-80 7690.76 5-1/2" 8RD TAC 2.75 3-JTS 2-7/8" L-80 95.34 PSN 1.10 4' TBG SUB 4.15 3-1/2" DESANDER 18.20 5-JTS 2-7/8" L-80 158.90 BULL PLUG .60  TAC AT 7707.48', PSN AT 7805.57', EOT AT 7988.52'.
13:30	1.50	15:00	BOPR	Remove BOP's	SET TAC. RD FLOOR. ND BOP. LAND HANGER IN 20K TENSION. NU WH. X-O FOR RODS.
15:00	0.50	15:30	HOIL	Hot Oil Well	FLUSH TBG W/ 75 BBLs HOT WTR. PU AND PRIME PUMP.
15:30	2.50	18:00	RURP	Run Rods & Pump	RIH W/ PMP AS PU RODS. EOP 5000'. SDFN
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.


**FD 12-21-2-2 8/21/2014 06:00 - 8/22/2014 06:00**

API 43-047-53763	State/Province UT	County Uintah	Field Name Fort Duchesne	Well Status PRODUCING	Total Depth (ftKB) 9,557.0	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	2.50	09:30	RURP	Run Rods & Pump	CONT RIH W/ PMP AS PU RODS. SPACE OUT AND SEAT PUMP.  ROD DETAIL 1-1/2" X 30' POLISH ROD 4', 6', 8' X 1" PONY RODS 120) 7/8" D 4 PER 153-3/4" D 4 PER 36) 1" D 4 PER SHEAR CPLG 25-175-RHBC-20-5-21-24' PUMP
09:30	0.50	10:00	PTST	Pressure Test	FILL TBG W/ 3 BBLS. STROKE TEST PUMP TO 800 PSI. GOOD.
10:00	1.00	11:00	GOP	General Operations	HANG HEAD AND RODS ON.
11:00	1.00	12:00	SRIG	Rig Up/Down	RDSU. TURN WELL OVER TO PRODUCTION.
12:00	18.00	06:00	GOP	General Operations	ROAD RIG TO 13-22-22. WELL ON PRODUCTION

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>8. WELL NAME and NUMBER:</b> FD 12-21-2-2
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. API NUMBER:</b> 43047537630000
<b>PHONE NUMBER:</b> 303 312-8134 Ext		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2359 FSL 0692 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH

11.

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/5/2014	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="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.

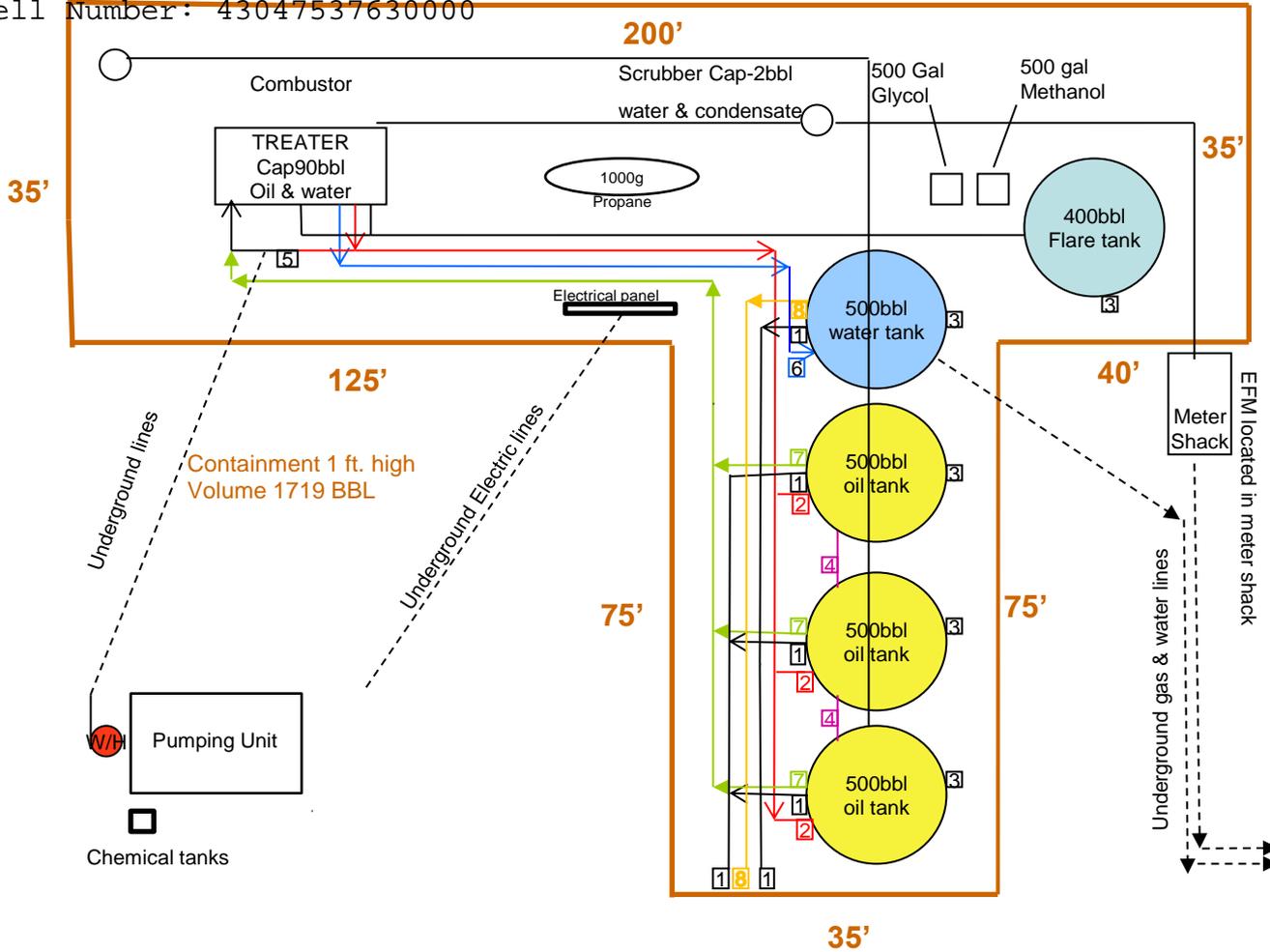
**Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY  
November 10, 2014**

<b>NAME (PLEASE PRINT)</b> Brady Riley	<b>PHONE NUMBER</b> 303 312-8115	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/5/2014	

Sundry Number: 57480 API Well Number: 43047537630000

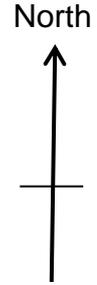
**BILL BARRETT CORPORATION**  
 FD 12-21-2-2  
 NW¼ SW¼, SEC.21,T2S, R2E,  
 Lease # FEE  
 API # 43-047-53763  
 Uintah Co. Utah

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 Southwest into dry drainages. Irrigation pond ½ mile to South.



EFM located in meter shack

Underground gas & water lines

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> fee
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>7. UNIT or CA AGREEMENT NAME:</b>
		<b>8. WELL NAME and NUMBER:</b> FD 12-21-2-2
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43047537630000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> MOFFAT CANAL
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2359 FSL 0692 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWSW Section: 21 Township: 02.0S Range: 02.0E Meridian: U		<b>COUNTY:</b> UINTAH
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/20/2014  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input 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 checked="" 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 type="text" value="INTERIM REC COMPLETE"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
INTERIM RECLAMATION WAS COMPLETED ON 11/20/2014 AND THE PIT WAS CLOSED ON 11/17/2014.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 08, 2015</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> 1/6/2015