

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER AURORA FEDERAL 5-23D-7-20					
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 BRENNAN BOTTOM					
4. TYPE OF WELL Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						5. UNIT or COMMUNITIZATION AGREEMENT NAME AURORA (DEEP)					
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) UTU78445			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') FOUR STAR RANCH						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-789-4424					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 8281 NORTH TRAIL DRIVE, PARK CITY, UT 84098						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE	MERIDIAN		
LOCATION AT SURFACE		2562 FNL 249 FWL		SWNW	23	7.0 S		20.0 E	S		
Top of Uppermost Producing Zone		1980 FNL 660 FWL		SWNW	23	7.0 S		20.0 E	S		
At Total Depth		1980 FNL 660 FWL		SWNW	23	7.0 S		20.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4764			26. PROPOSED DEPTH MD: 7660 TVD: 7600					
27. ELEVATION - GROUND LEVEL 4822			28. BOND NUMBER WYB000040			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 49-1645					
Hole, Casing, and Cement Information											
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	8.625	0 - 1200	24.0	J-55 ST&C	8.7	Halliburton Light , Type Unknown		170	3.16	11.0
							Halliburton Premium , Type Unknown		270	1.36	14.8
Prod	7.875	5.5	0 - 7660	17.0	I-80 LT&C	9.5	Unknown		530	2.31	11.0
							Unknown		420	1.42	13.5
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Brady Riley			TITLE Permit Analyst			PHONE 303 312-8115					
SIGNATURE			DATE 06/18/2014			EMAIL briley@billbarrettcorp.com					
API NUMBER ASSIGNED 43047545190000			APPROVAL			 Permit Manager					

BILL BARRETT CORPORATION
DRILLING PLAN

AURORA FEDERAL 5-23D-7-20

SWNW, 2562' FNL and 249' FWL, Section 23, T7S-R20E, SLB&M (surface hole)
SWNW, 1980' FNL and 660' FWL, Section 23, T7S-R20E, SLB&M (bottom hole)
Uintah County, Utah

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

<u>Formation</u>	<u>Depth – TVD</u>	<u>Depth – MD</u>
Green River	3,713'	3,746'
Mahogany	4,828'	4,879'
Lower Green River*	5,837'	5,897'
Douglas Creek	6,023'	6,083'
Black Shale	6,747'	6,807'
Castle Peak	6,910'	6,970'
Wasatch*	7,600'	7,660'
TD	7,600'	7660'

*PROSPECTIVE PAY

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

Base of Useable Water = 1,060'

3. BOP and Pressure Containment Data

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

*See Appendix A

4. Casing Program

<u>Hole Size</u>	<u>SETTING DEPTH</u>		<u>Casing Size</u>	<u>Casing Weight</u>	<u>Casing Grade</u>	<u>Thread</u>	<u>Condition</u>
	<u>(FROM)</u>	<u>(TO)</u>					
26"	Surface	80'	16"	65#			
12 1/4"	Surface	1200'	8 5/8"	24#	J-55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110/I-80	LT&C	New

Bill Barrett Corporation
 Drilling Program
 AURORA FEDERAL 5-23D-7-20
 Uintah County, Utah

5. Cementing Program

16" Conductor Casing	Grout
8 5/8" Surface Casing (may pre-set with spudder rig)	Lead: 170 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 270 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx), calculated hole volume with 75% excess. TOC @ 700'
5 1/2" Production Casing	Lead: 530 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 700' Tail: 420 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 5397'

6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 1200'	8.3 – 8.7	26 – 36	NC	Air/Mist/Freshwater Spud Mud Fluid System
1200'-5500'	9.2 - 9.4	26 – 36	NC	Freshwater Spud Mud Fluid System
5500' – TD	9.4 - 9.5	42 – 58	25 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. Testing, Logging and Core Programs

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

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3754 psi* and maximum anticipated surface pressure equals approximately 2082 psi** (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

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

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

Bill Barrett Corporation
Drilling Program
AURORA FEDERAL 5-23D-7-20
Uintah County, Utah

9. Auxiliary Equipment

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

10. Location and Type of Water Supply

Water for the drilling and completion will be from:

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

11. Drilling Schedule

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

12. Appendix A

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

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



Bill Barrett Corporation

FORT DUCHESNE CEMENT VOLUMES

Well Name: AURORA FEDERAL 5-23D-7-20

Surface Hole Data:

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

Calculated Data:

Lead Volume:	505.6	ft ³
Lead Fill:	700'	
Tail Volume:	361.1	ft ³
Tail Fill:	500'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	170
--------------	-----

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

# SK's Tail:	270
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Production Hole Data:

Total Depth:	7,660'
Top of Cement:	700'
Top of Tail:	5,397'
OD of Hole:	7.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1220.7	ft ³
Lead Fill:	4,697'	
Tail Volume:	588.2	ft ³
Tail Fill:	2,263'	

Cement Data:

Lead Yield:	2.31	ft ³ /sk
Tail Yield:	1.42	ft ³ /sk
% Excess:	50%	

Calculated # of Sacks:

# SK's Lead:	530
# SK's Tail:	420

AURORA FEDERAL 5-23D-7-20 Proposed Cementing Program

<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (700' - 0')	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft ³ /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 700'
	Volume: 90.04 bbl
	Proposed Sacks: 170 sks
Tail Cement - (TD - 700')	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft ³ /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 700'
	Calculated Fill: 500'
	Volume: 64.32 bbl
	Proposed Sacks: 270 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (5397' - 700')	
Tuned Light™ System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft ³ /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 700'
	Calculated Fill: 4,697'
	Volume: 217.39 bbl
	Proposed Sacks: 530 sks
Tail Cement - (7660' - 5397')	
Econocem™ System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft ³ /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 5,397'
	Calculated Fill: 2,263'
	Volume: 104.75 bbl
	Proposed Sacks: 420 sks

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

T7S, R20E, S.L.B.&M.

BILL BARRETT CORPORATION

Well location, AURORA FEDERAL #5-23D-7-20, located as shown in the SW 1/4 NW 1/4 of Section 23, T7S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

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

BASIS OF BEARINGS

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

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N34°21'17"E	710.60'



SCALE

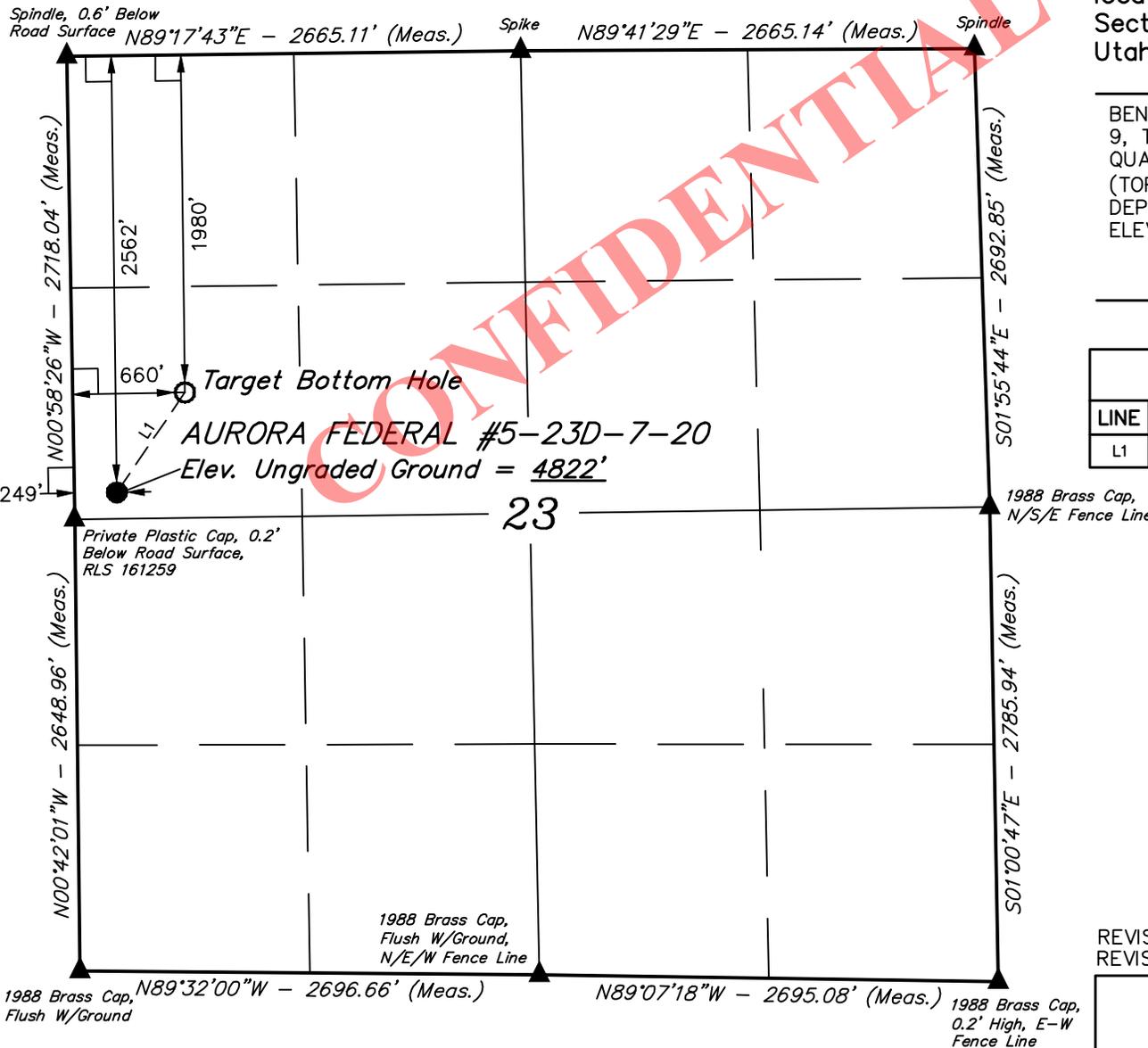
CERTIFICATE

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

[Signature]
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 12-11-13
 REVISED: 12-10-13

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



LEGEND:

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

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°11'53.45" (40.198181)	LATITUDE = 40°11'47.65" (40.196569)
LONGITUDE = 109°38'36.20" (109.643389)	LONGITUDE = 109°38'41.37" (109.644825)
NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°11'53.58" (40.198217)	LATITUDE = 40°11'47.79" (40.196608)
LONGITUDE = 109°38'33.70" (109.642694)	LONGITUDE = 109°38'38.87" (109.644131)

RECEIVED: June 18, 2014

BILL BARRETT CORPORATION
AURORA FEDERAL #5-23D-7-20
 LOCATED IN UTAH COUNTY, UTAH
 SECTION 23, T7S, R20E, S.L.B.&M.

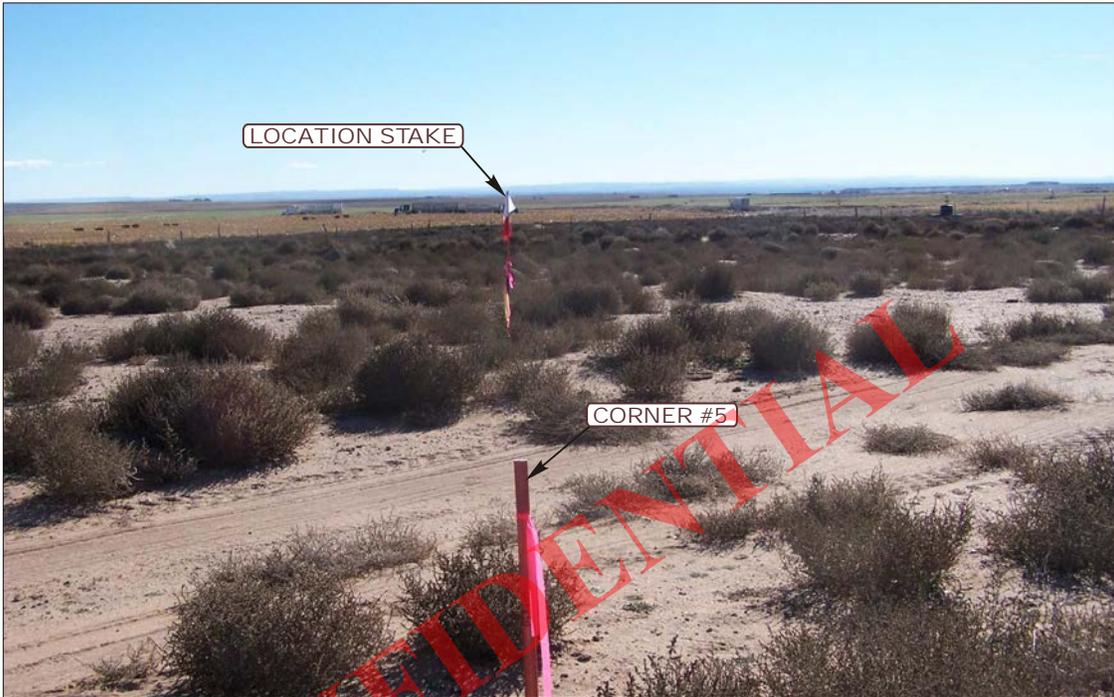


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS	11	12	13	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: T.A.	DRAWN BY: M.M.	REV: 12-11-13 J.M.C.		

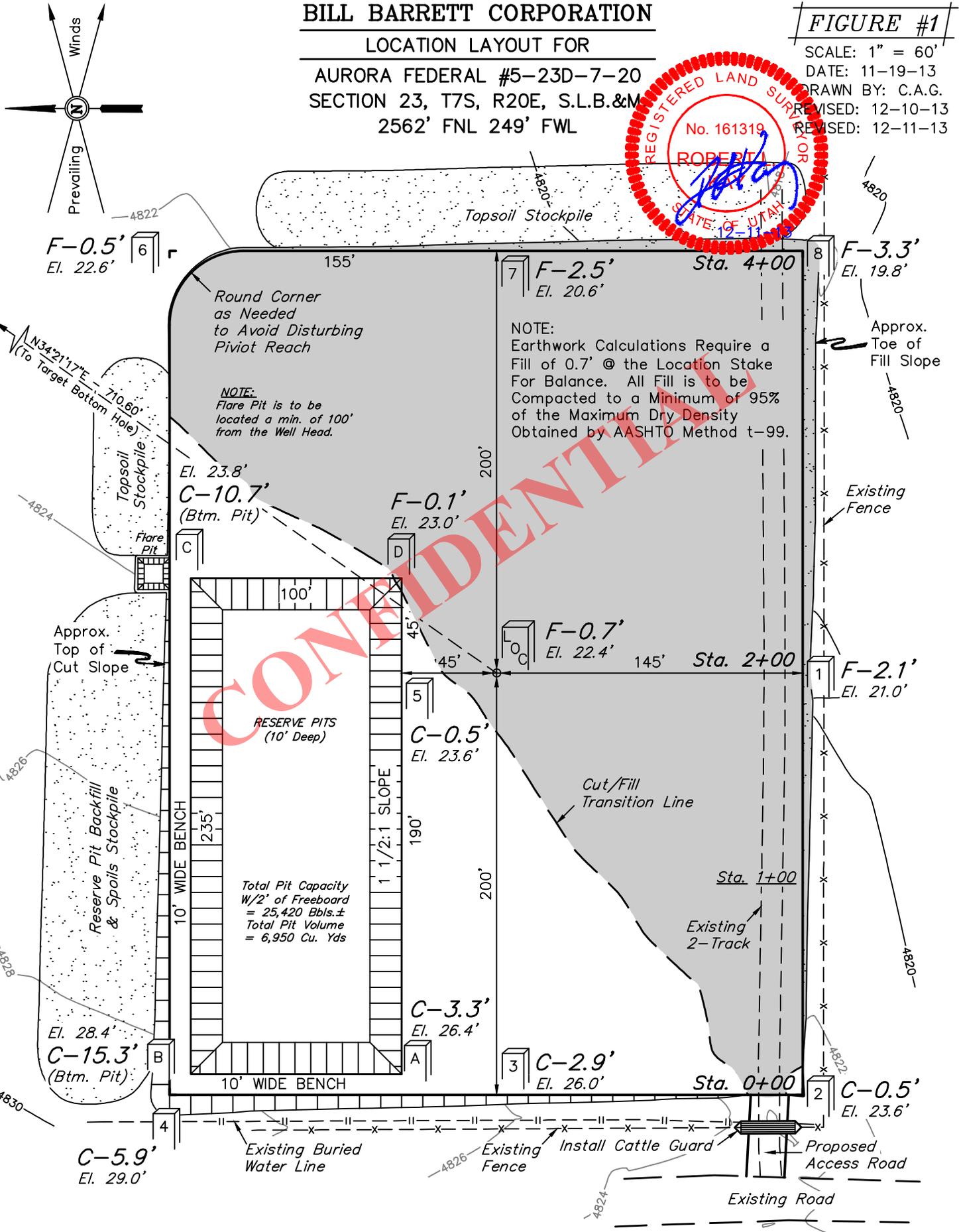
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LOCATION LAYOUT FOR

AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M
2562' FNL 249' FWL

FIGURE #1

SCALE: 1" = 60'
DATE: 11-19-13
DRAWN BY: C.A.G.
REVISED: 12-10-13
REVISED: 12-11-13



Elev. Ungraded Ground At Loc. Stake = 4822.4'
FINISHED GRADE ELEV. AT LOC. STAKE = 4823.1'

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

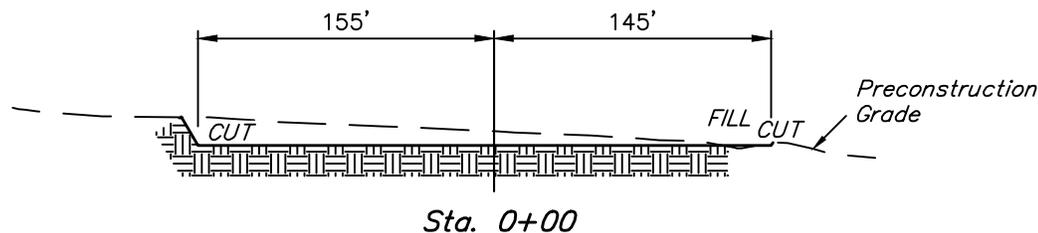
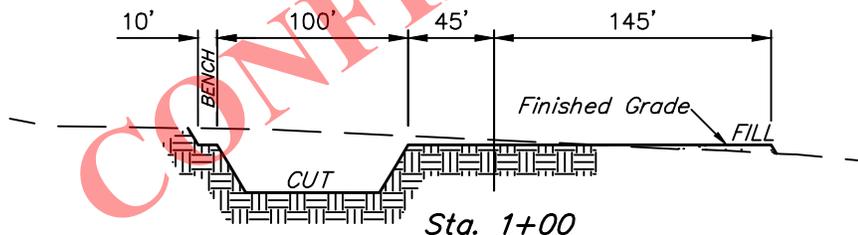
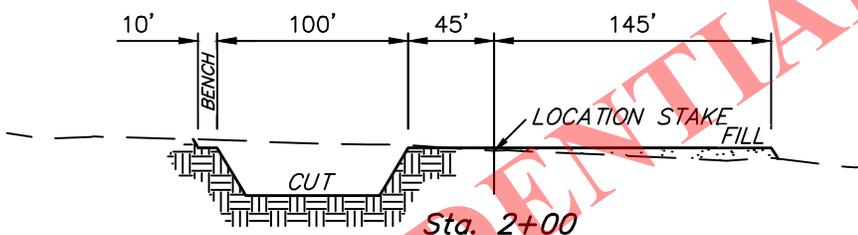
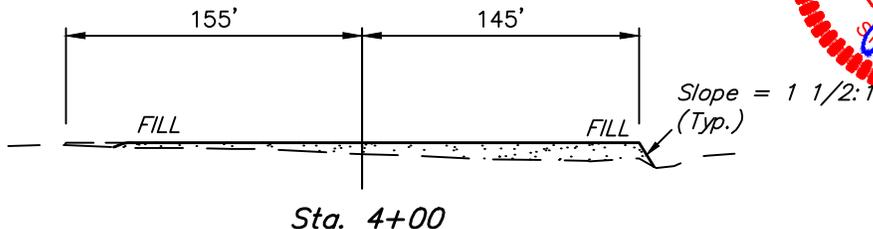
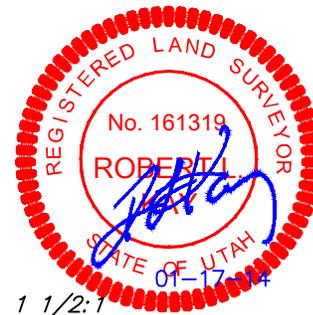
RECEIVED: June 18, 2014

BILL BARRETT CORPORATION
TYPICAL CROSS SECTIONS FOR
AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
2562' FNL 249' FWL

FIGURE #2

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

DATE: 11-19-13
 DRAWN BY: C.A.G.
 REVISED: 12-10-13
 REVISED: 12-11-13
 REV: 01-17-14 M.L.



NOTE:

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

APPROXIMATE ACREAGE

WELL SITE DISTURBANCE = ± 4.168 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.016 ACRES
 PIPELINE DISTURBANCE = ± 1.855 ACRES
 TOTAL = ± 6.039 ACRES

* NOTE:
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 2,320 Cu. Yds.
 Remaining Location = 9,520 Cu. Yds.
TOTAL CUT = 11,840 CU. YDS.
FILL = 6,040 CU. YDS.

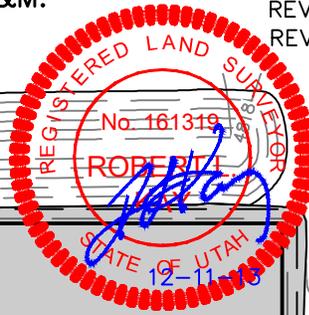
EXCESS MATERIAL = 5,800 Cu. Yds.
 Topsoil & Pit Backfill (1/2 Pit Vol.) = 5,800 Cu. Yds.
 EXCESS UNBALANCE (After Interim Rehabilitation) = 0 Cu. Yds.

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 85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

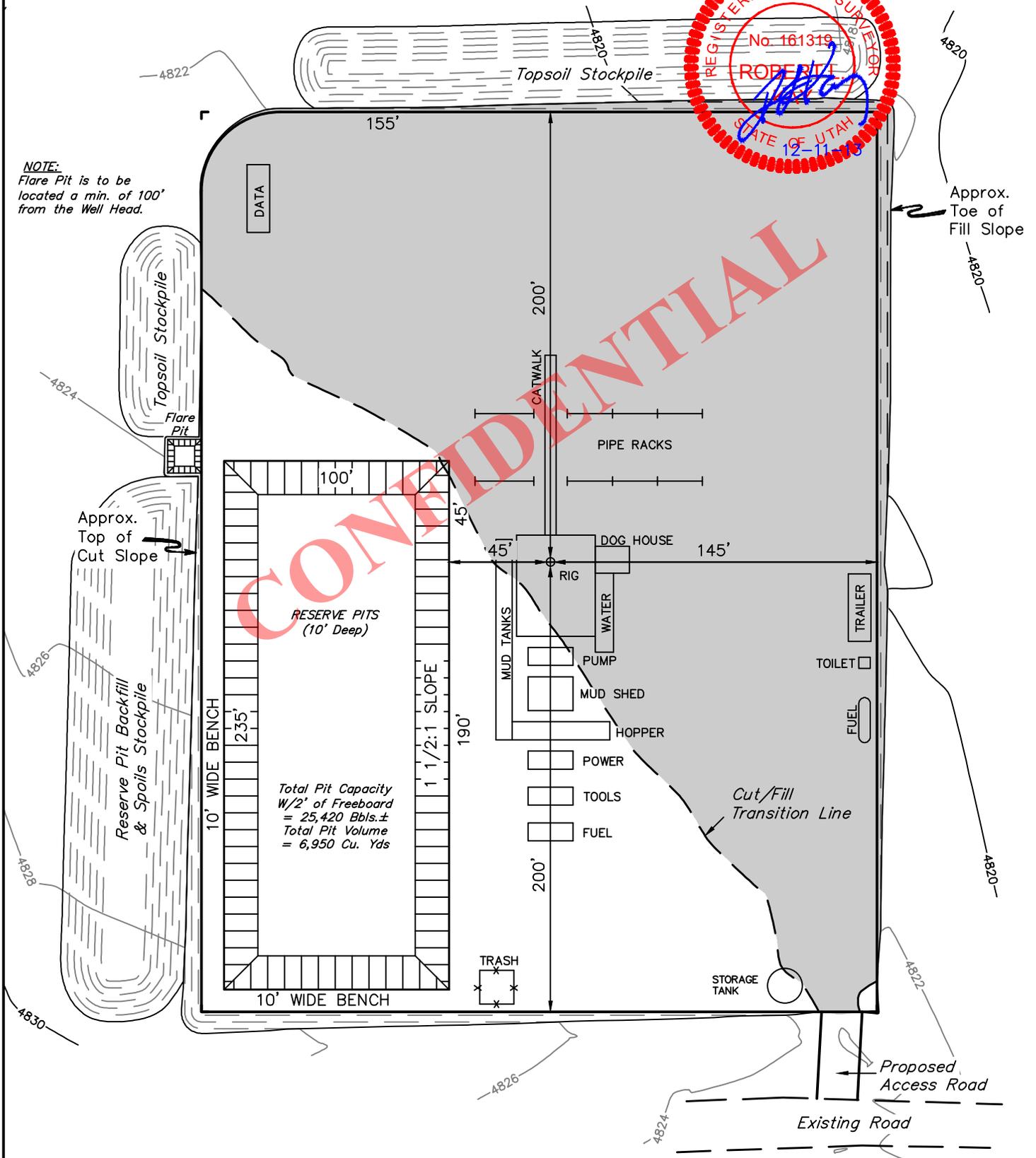
BILL BARRETT CORPORATION
TYPICAL RIG LAYOUT FOR
AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
2562' FNL 249' FWL

FIGURE #3

SCALE: 1" = 60'
DATE: 11-19-13
DRAWN BY: C.A.G.
REVISED: 12-10-13
REVISED: 12-11-13



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



CONFIDENTIAL

RESERVE PITS
(10' Deep)

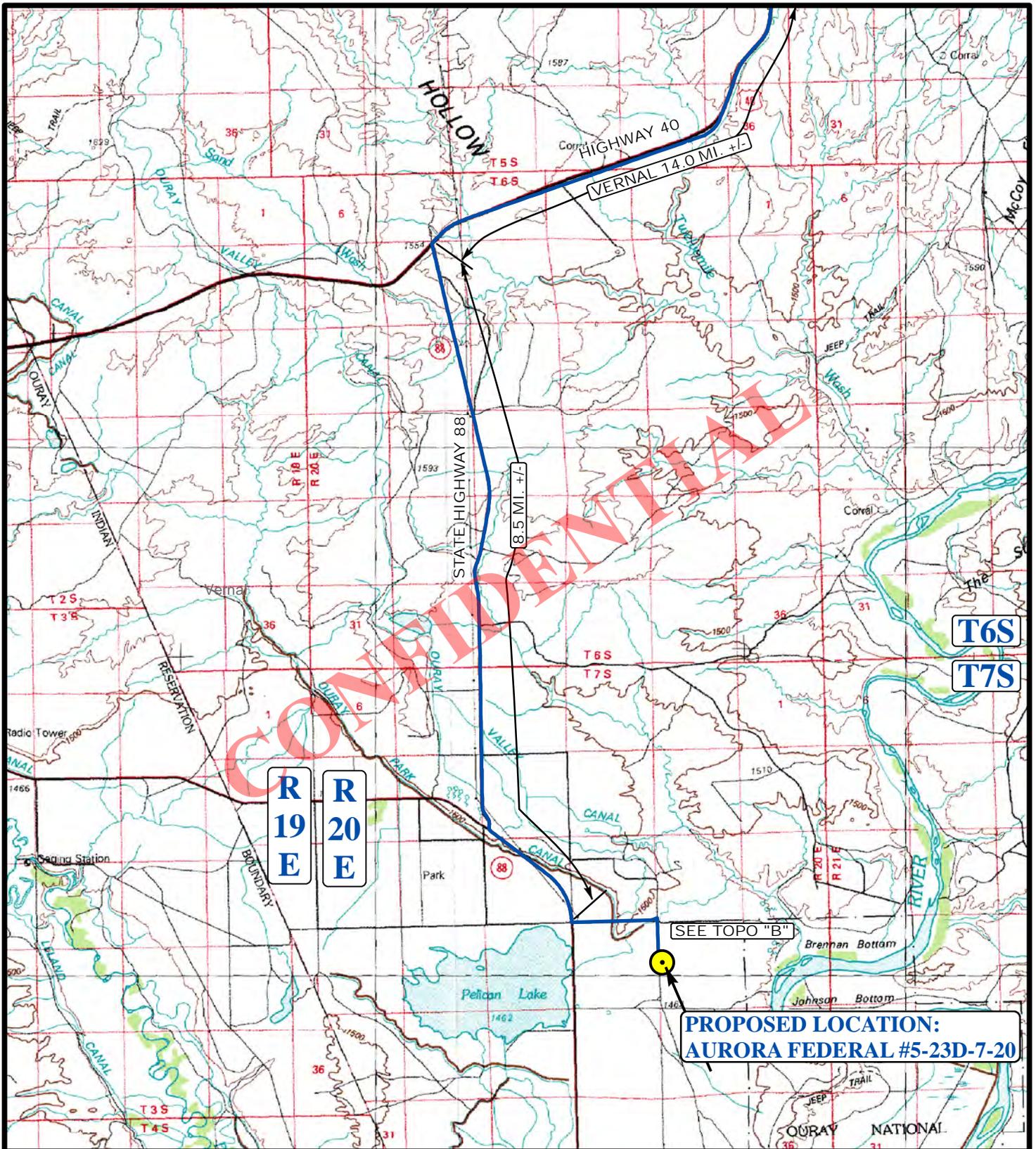
Total Pit Capacity
W/2' of Freeboard
= 25,420 Bbls.±
Total Pit Volume
= 6,950 Cu. Yds

**BILL BARRETT CORPORATION
AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.**

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 8.5 MILES TO THE JUNCTION OF THIS ROAD AND 7000 SOUTH TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.0 MILES TO THE JUNCTION OF THIS ROAD AND 18500 EAST TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 39' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 24.0 MILES.

CONFIDENTIAL



LEGEND:

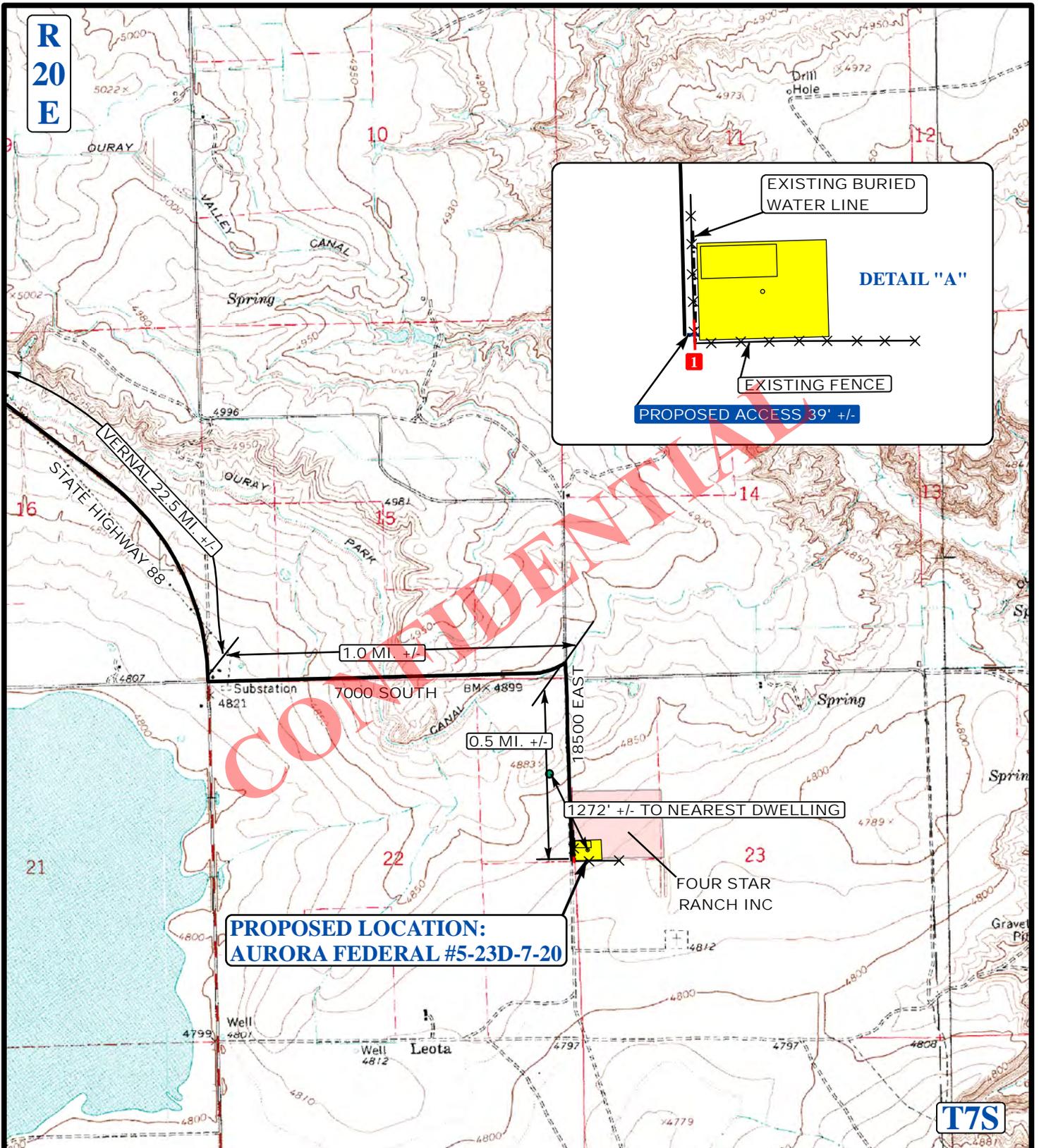
 PROPOSED LOCATION

BILL BARRETT CORPORATION

AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
2562' FNL 249' FWL

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

ACCESS ROAD MAP **11 12 13**
 MONTH DAY YEAR
 SCALE: 1:100,000 DRAWN BY: M.M. REV: 12-11-13 J.M.C. **TOPO**



LEGEND:

- EXISTING ROADS
- - - - - PROPOSED ACCESS ROAD
- x x x x x EXISTING FENCE
- I** INSTALL CATTLE GAIRD

U&L S **Utah Engineering & Land Surveying**
 85 South 200 East Vernal, Utah 84078
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BILL BARRETT CORPORATION

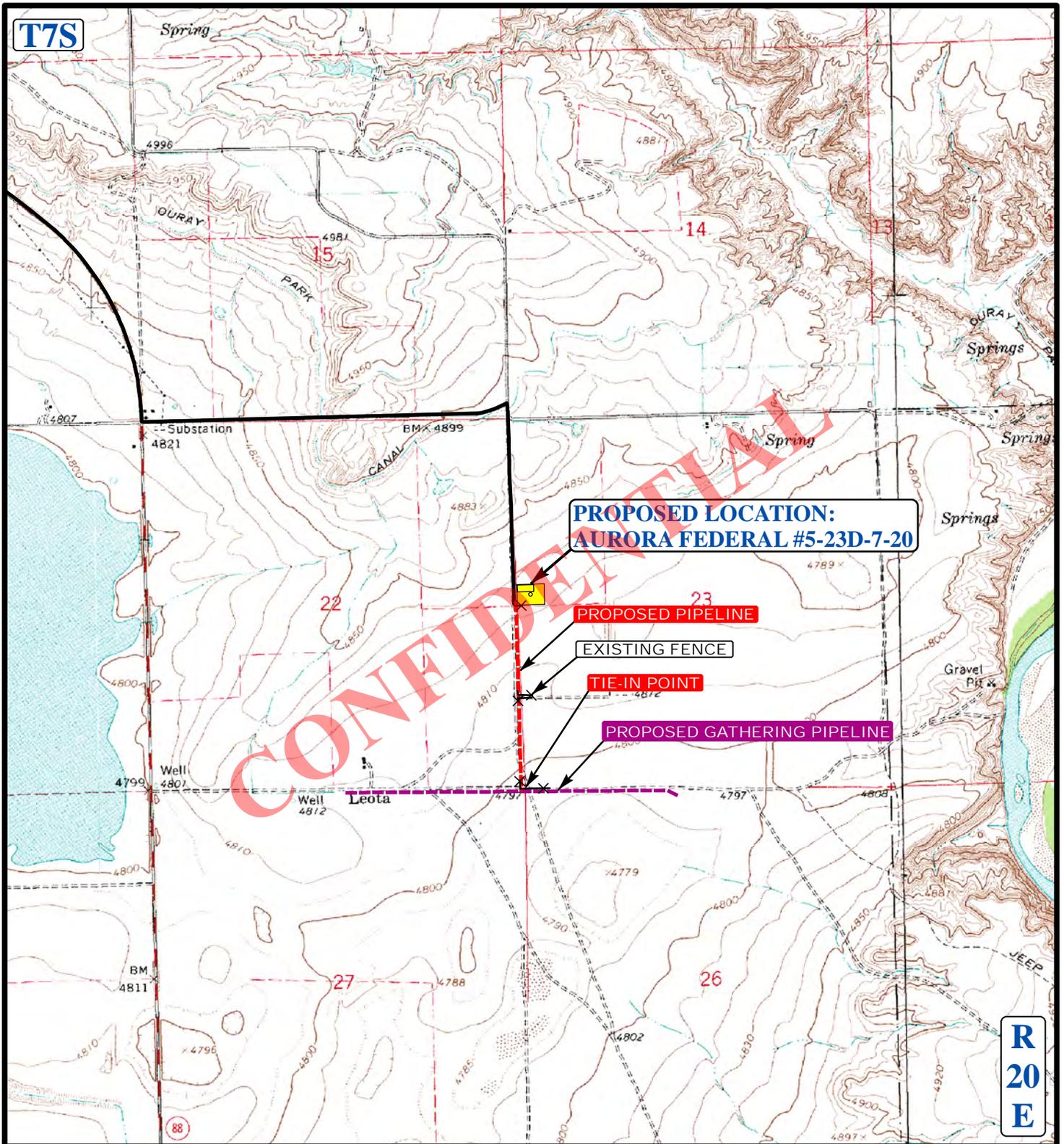
AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
2562' FNL 249' FWL

ACCESS ROAD MAP

11	12	13
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: M.M. REV: 12-11-13 J.M.C.

B TOPO



**PROPOSED LOCATION:
AURORA FEDERAL #5-23D-7-20**

PROPOSED PIPELINE

EXISTING FENCE

TIE-IN POINT

PROPOSED GATHERING PIPELINE

APPROXIMATE TOTAL PIPELINE DISTANCE = 2,767' +/-

LEGEND:

- EXISTING ROADS
- PROPOSED ACCESS ROAD
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SEVICING OTHER WELLS)
- PROPOSED PIPELINE
- EXISTING FENCE



Utah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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BILL BARRETT CORPORATION

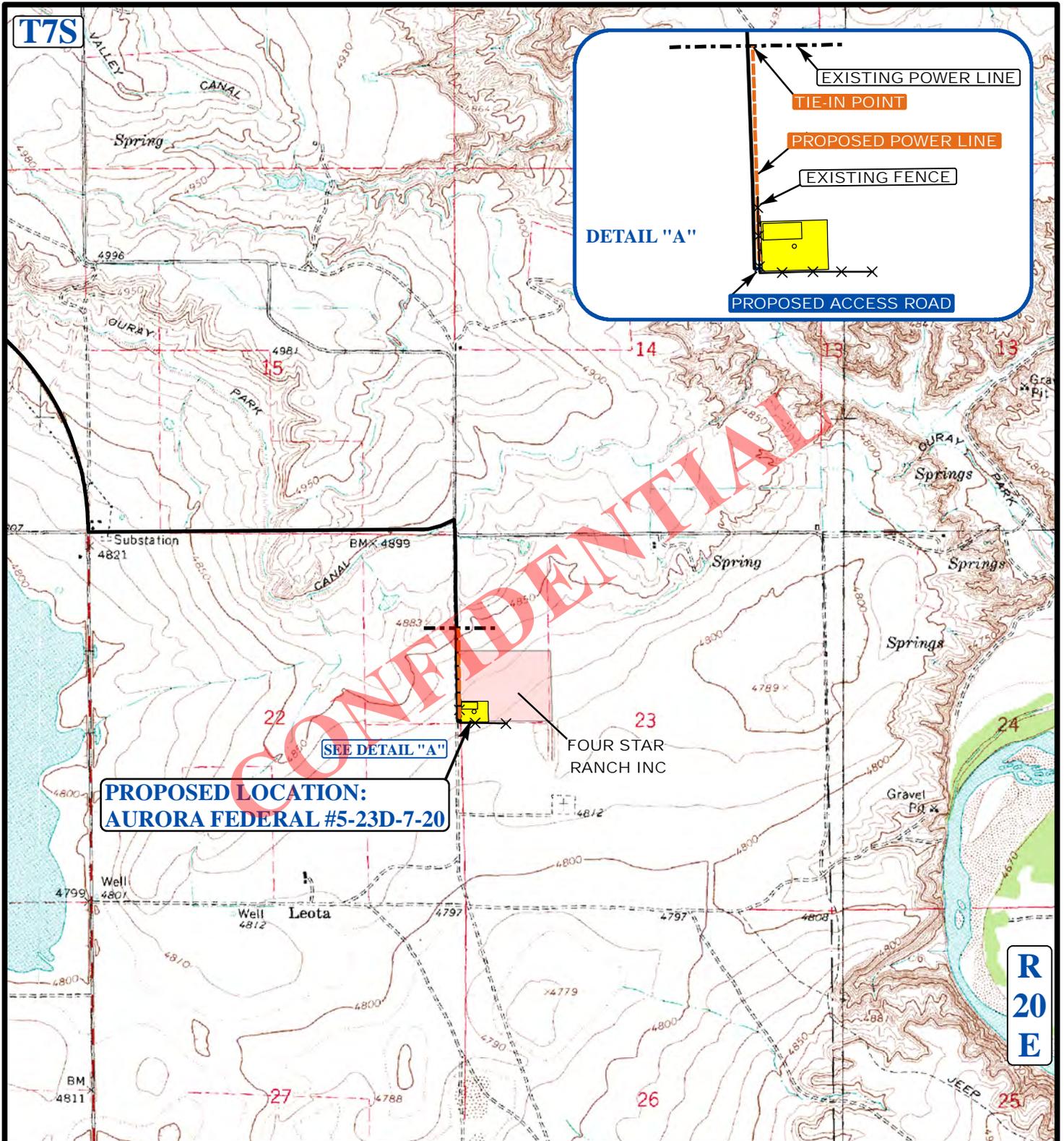
AURORA FEDERAL #5-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
2562' FNL 249' FWL

**TOPOGRAPHIC
MAP**

01	22	14
MONTH	DAY	YEAR

SCALE: 1" = 2000' DRAWN BY: J.M.C. REVISED: 00-00-00





**PROPOSED LOCATION:
AURORA FEDERAL #5-23D-7-20**

SEE DETAIL "A"

FOUR STAR RANCH INC

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

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING POWER LINE
-  PROPOSED POWER LINE

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



BILL BARRETT CORPORATION

**AURORA FEDERAL #5-23D-7-20
 SECTION 23, T7S, R20E, S.L.B.&M.
 2562' FNL 249' FWL**

TOPOGRAPHIC MAP 11 12 13
 MONTH DAY YEAR
 SCALE: 1"= 2000' DRAWN BY: M.M. REV: 12-11-13 J.M.C. **D**
 TOPO



Bill Barrett Corporation

Fort Duchesne
SECTION 23 T7S, R20E
5-23D-7-20

Wellbore #1

Plan: Design #1

Standard Planning Report

12 March, 2014

CONFIDENTIAL





Payzone Directional
Planning Report



Database:	MasterDB	Local Co-ordinate Reference:	Well 5-23D-7-20
Company:	Bill Barrett Corporation	TVD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Project:	Fort Duchesne	MD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Site:	SECTION 23 T7S, R20E	North Reference:	True
Well:	5-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	Fort Duchesne		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Southern Zone		

Site	SECTION 23 T7S, R20E				
Site Position:		Northing:	11,133,417.11 usft	Latitude:	40° 11' 47.650 N
From:	Lat/Long	Easting:	2,159,078.40 usft	Longitude:	109° 38' 41.370 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.14 °

Well	5-23D-7-20, SHL LAT: 40 11 47.65 LONG: -109 38 41.37					
Well Position	+N/-S	0.0 usft	Northing:	11,133,417.10 usft	Latitude:	40° 11' 47.650 N
	+E/-W	0.0 usft	Easting:	2,159,078.40 usft	Longitude:	109° 38' 41.370 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	4,836.1 usft	Ground Level:	4,823.1 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	3/12/2014	(°)	(°)	(nT)
			10.81	65.93	52,145

Design	Design #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.0	0.0	0.0	34.35

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,879.9	10.20	34.35	1,876.3	49.8	34.1	1.50	1.50	0.00	34.35	
5,217.1	10.20	34.35	5,160.8	537.6	367.5	0.00	0.00	0.00	0.00	
5,897.0	0.00	0.00	5,837.1	587.4	401.5	1.50	-1.50	0.00	180.00	5-23D-7-20 TGT
7,660.0	0.00	0.00	7,600.1	587.4	401.5	0.00	0.00	0.00	0.00	



Payzone Directional
Planning Report



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Company:	Bill Barrett Corporation	TVD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Project:	Fort Duchesne	MD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Site:	SECTION 23 T7S, R20E	North Reference:	True
Well:	5-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,058.1	0.00	0.00	1,058.1	0.0	0.0	0.0	0.00	0.00	0.00
Water									
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 1.50									
1,300.0	1.50	34.35	1,300.0	1.1	0.7	1.3	1.50	1.50	0.00
1,400.0	3.00	34.35	1,399.9	4.3	3.0	5.2	1.50	1.50	0.00
1,500.0	4.50	34.35	1,499.7	9.7	6.6	11.8	1.50	1.50	0.00
1,600.0	6.00	34.35	1,599.3	17.3	11.8	20.9	1.50	1.50	0.00
1,700.0	7.50	34.35	1,698.6	27.0	18.4	32.7	1.50	1.50	0.00
1,800.0	9.00	34.35	1,797.5	38.8	26.5	47.0	1.50	1.50	0.00
1,879.9	10.20	34.35	1,876.3	49.8	34.1	60.3	1.50	1.50	0.00
Start 3337.3 hold at 1879.9 MD									
1,900.0	10.20	34.35	1,896.1	52.8	36.1	63.9	0.00	0.00	0.00
2,000.0	10.20	34.35	1,994.5	67.4	46.1	81.6	0.00	0.00	0.00
2,100.0	10.20	34.35	2,092.9	82.0	56.0	99.3	0.00	0.00	0.00
2,200.0	10.20	34.35	2,191.4	96.6	66.0	117.0	0.00	0.00	0.00
2,300.0	10.20	34.35	2,289.8	111.2	76.0	134.7	0.00	0.00	0.00
2,400.0	10.20	34.35	2,388.2	125.8	86.0	152.4	0.00	0.00	0.00
2,500.0	10.20	34.35	2,486.6	140.5	96.0	170.1	0.00	0.00	0.00
2,600.0	10.20	34.35	2,585.0	155.1	106.0	187.8	0.00	0.00	0.00
2,700.0	10.20	34.35	2,683.5	169.7	116.0	205.5	0.00	0.00	0.00
2,800.0	10.20	34.35	2,781.9	184.3	126.0	223.3	0.00	0.00	0.00
2,900.0	10.20	34.35	2,880.3	198.9	136.0	241.0	0.00	0.00	0.00
3,000.0	10.20	34.35	2,978.7	213.5	146.0	258.7	0.00	0.00	0.00
3,100.0	10.20	34.35	3,077.1	228.2	156.0	276.4	0.00	0.00	0.00
3,200.0	10.20	34.35	3,175.6	242.8	165.9	294.1	0.00	0.00	0.00
3,300.0	10.20	34.35	3,274.0	257.4	175.9	311.8	0.00	0.00	0.00
3,400.0	10.20	34.35	3,372.4	272.0	185.9	329.5	0.00	0.00	0.00
3,500.0	10.20	34.35	3,470.8	286.6	195.9	347.2	0.00	0.00	0.00
3,600.0	10.20	34.35	3,569.2	301.2	205.9	364.9	0.00	0.00	0.00
3,700.0	10.20	34.35	3,667.7	315.9	215.9	382.6	0.00	0.00	0.00
3,746.2	10.20	34.35	3,713.1	322.6	220.5	390.8	0.00	0.00	0.00
Green River									
3,800.0	10.20	34.35	3,766.1	330.5	225.9	400.3	0.00	0.00	0.00
3,900.0	10.20	34.35	3,864.5	345.1	235.9	418.0	0.00	0.00	0.00
4,000.0	10.20	34.35	3,962.9	359.7	245.9	435.7	0.00	0.00	0.00
4,100.0	10.20	34.35	4,061.3	374.3	255.9	453.4	0.00	0.00	0.00
4,200.0	10.20	34.35	4,159.8	388.9	265.8	471.1	0.00	0.00	0.00
4,300.0	10.20	34.35	4,258.2	403.6	275.8	488.8	0.00	0.00	0.00
4,400.0	10.20	34.35	4,356.6	418.2	285.8	506.5	0.00	0.00	0.00
4,500.0	10.20	34.35	4,455.0	432.8	295.8	524.2	0.00	0.00	0.00
4,600.0	10.20	34.35	4,553.4	447.4	305.8	541.9	0.00	0.00	0.00



Payzone Directional
Planning Report



Database:	MasterDB	Local Co-ordinate Reference:	Well 5-23D-7-20
Company:	Bill Barrett Corporation	TVD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Project:	Fort Duchesne	MD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Site:	SECTION 23 T7S, R20E	North Reference:	True
Well:	5-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,700.0	10.20	34.35	4,651.9	462.0	315.8	559.6	0.00	0.00	0.00
4,800.0	10.20	34.35	4,750.3	476.6	325.8	577.3	0.00	0.00	0.00
4,879.1	10.20	34.35	4,828.1	488.2	333.7	591.3	0.00	0.00	0.00
Mahogany									
4,900.0	10.20	34.35	4,848.7	491.3	335.8	595.1	0.00	0.00	0.00
5,000.0	10.20	34.35	4,947.1	505.9	345.8	612.8	0.00	0.00	0.00
5,100.0	10.20	34.35	5,045.5	520.5	355.8	630.5	0.00	0.00	0.00
5,200.0	10.20	34.35	5,144.0	535.1	365.8	648.2	0.00	0.00	0.00
5,217.1	10.20	34.35	5,160.8	537.6	367.5	651.2	0.00	0.00	0.00
Start Drop -1.50									
5,300.0	8.95	34.35	5,242.5	549.0	375.2	665.0	1.50	-1.50	0.00
5,400.0	7.45	34.35	5,341.5	560.8	383.3	679.3	1.50	-1.50	0.00
5,500.0	5.95	34.35	5,440.8	570.4	389.9	690.9	1.50	-1.50	0.00
5,600.0	4.45	34.35	5,540.4	577.9	395.0	700.0	1.50	-1.50	0.00
5,700.0	2.95	34.35	5,640.2	583.2	398.7	706.5	1.50	-1.50	0.00
5,777.0	1.80	34.35	5,717.1	585.9	400.5	709.7	1.50	-1.50	0.00
Pelican Bench									
5,800.0	1.45	34.35	5,740.1	586.4	400.8	710.3	1.50	-1.50	0.00
5,897.0	0.00	0.00	5,837.1	587.4	401.5	711.5	1.50	-1.50	0.00
Start 1763.0 hold at 5897.0 MD - TGR3 - 5-23D-7-20 TGT									
5,900.0	0.00	0.00	5,840.1	587.4	401.5	711.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,940.1	587.4	401.5	711.5	0.00	0.00	0.00
6,083.0	0.00	0.00	6,023.1	587.4	401.5	711.5	0.00	0.00	0.00
Douglas Creek									
6,100.0	0.00	0.00	6,040.1	587.4	401.5	711.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,140.1	587.4	401.5	711.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,240.1	587.4	401.5	711.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,340.1	587.4	401.5	711.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,440.1	587.4	401.5	711.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,540.1	587.4	401.5	711.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,640.1	587.4	401.5	711.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,740.1	587.4	401.5	711.5	0.00	0.00	0.00
6,807.0	0.00	0.00	6,747.1	587.4	401.5	711.5	0.00	0.00	0.00
Black Shale Facies									
6,900.0	0.00	0.00	6,840.1	587.4	401.5	711.5	0.00	0.00	0.00
6,970.0	0.00	0.00	6,910.1	587.4	401.5	711.5	0.00	0.00	0.00
Castle Peak									
7,000.0	0.00	0.00	6,940.1	587.4	401.5	711.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,040.1	587.4	401.5	711.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,140.1	587.4	401.5	711.5	0.00	0.00	0.00
7,211.0	0.00	0.00	7,151.1	587.4	401.5	711.5	0.00	0.00	0.00
Uteland Butte									
7,300.0	0.00	0.00	7,240.1	587.4	401.5	711.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,340.1	587.4	401.5	711.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,440.1	587.4	401.5	711.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,540.1	587.4	401.5	711.5	0.00	0.00	0.00
7,660.0	0.00	0.00	7,600.1	587.4	401.5	711.5	0.00	0.00	0.00
TD at 7660.0 - Wasatch									



Payzone Directional Planning Report



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Project:	Fort Duchesne	MD Reference:	5-23D-7-20 @ 4836.1usft (Original Well Elev)
Site:	SECTION 23 T7S, R20E	North Reference:	True
Well:	5-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

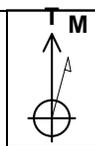
Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
5-23D-7-20 TGT - hit/miss target - Shape	0.00	0.00	5,837.1	587.4	401.5	11,134,012.38	2,159,468.19	40° 11' 53.450 N	109° 38' 36.200 W
- plan hits target center - Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,058.1	1,058.1	Water		0.00		
3,746.2	3,713.1	Green River		0.00		
4,879.1	4,828.1	Mahogany		0.00		
5,777.0	5,717.1	Pelican Bench		0.00		
5,897.0	5,837.1	TGR3		0.00		
6,083.0	6,023.1	Douglas Creek		0.00		
6,807.0	6,747.1	Black Shale Facies		0.00		
6,970.0	6,910.1	Castle Peak		0.00		
7,211.0	7,151.1	Uteland Butte		0.00		
7,660.0	7,600.1	Wasatch		0.00		

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
1,200.0	1,200.0	0.0	0.0	Start Build 1.50	
1,879.9	1,876.3	49.8	34.1	Start 3337.3 hold at 1879.9 MD	
5,217.1	5,160.8	537.6	367.5	Start Drop -1.50	
5,897.0	5,837.1	587.4	401.5	Start 1763.0 hold at 5897.0 MD	
7,660.0	7,600.1	587.4	401.5	TD at 7660.0	



Well Name: 5-23D-7-20
 Surface Location: SECTION 23 T7S, R20E
 North American Datum 1983 US State Plane 1983 Utah Southern Zone
 Ground Elevation: 4823.1
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.0 0.0 11133417.10 2159078.40 40° 11' 47.650 N 109° 38' 41.370 W
 Original Well Elev 5-23D-7-20 @ 4836.1usft (Original Well Elev)



Azimuths to True North
 Magnetic North: 10.81°
 Magnetic Field
 Strength: 52144.5snT
 Dip Angle: 65.93°
 Date: 3/12/2014
 Model: IGRF2010

SECTION 23 T7S, R20E
 5-23D-7-20
 Design #1
 14:39, March 12 2014

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

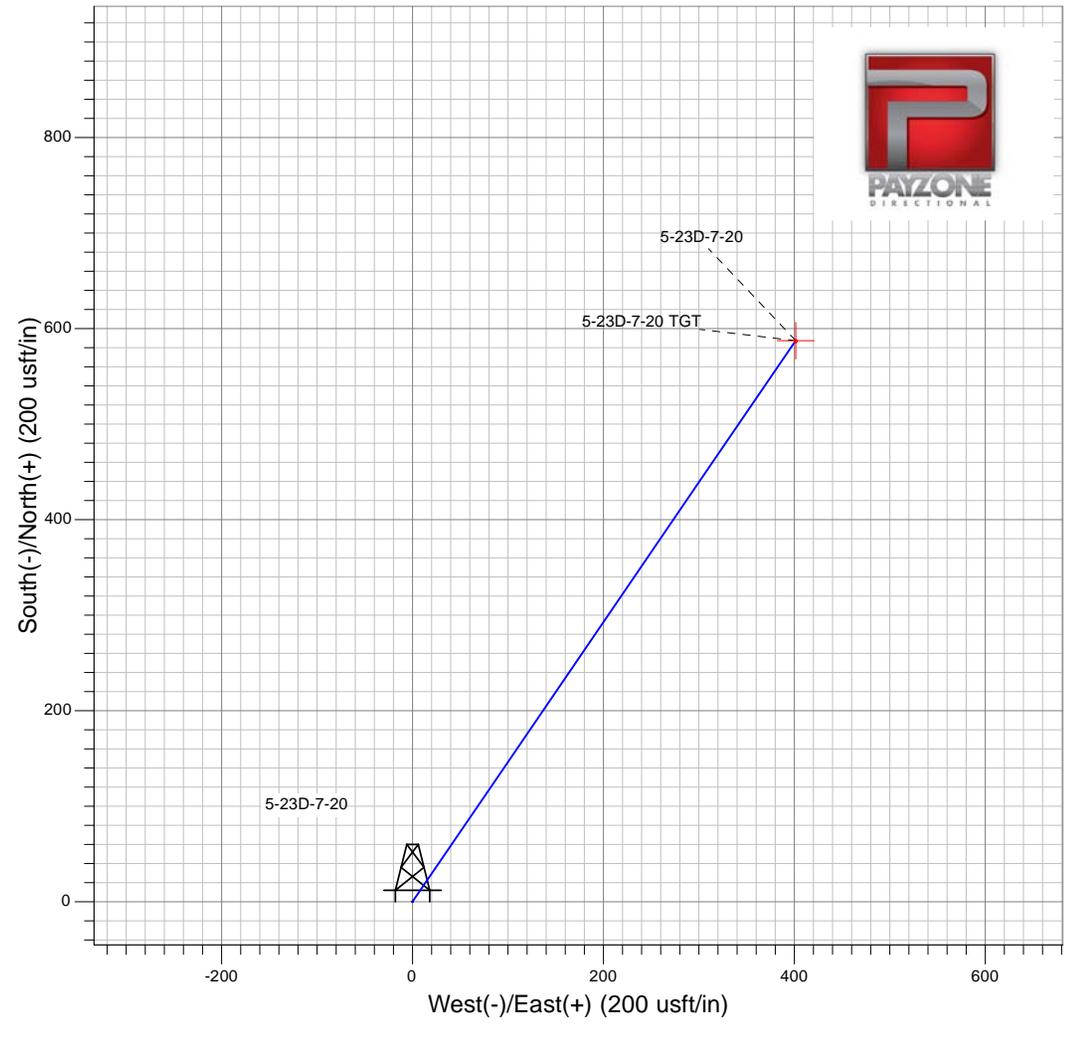
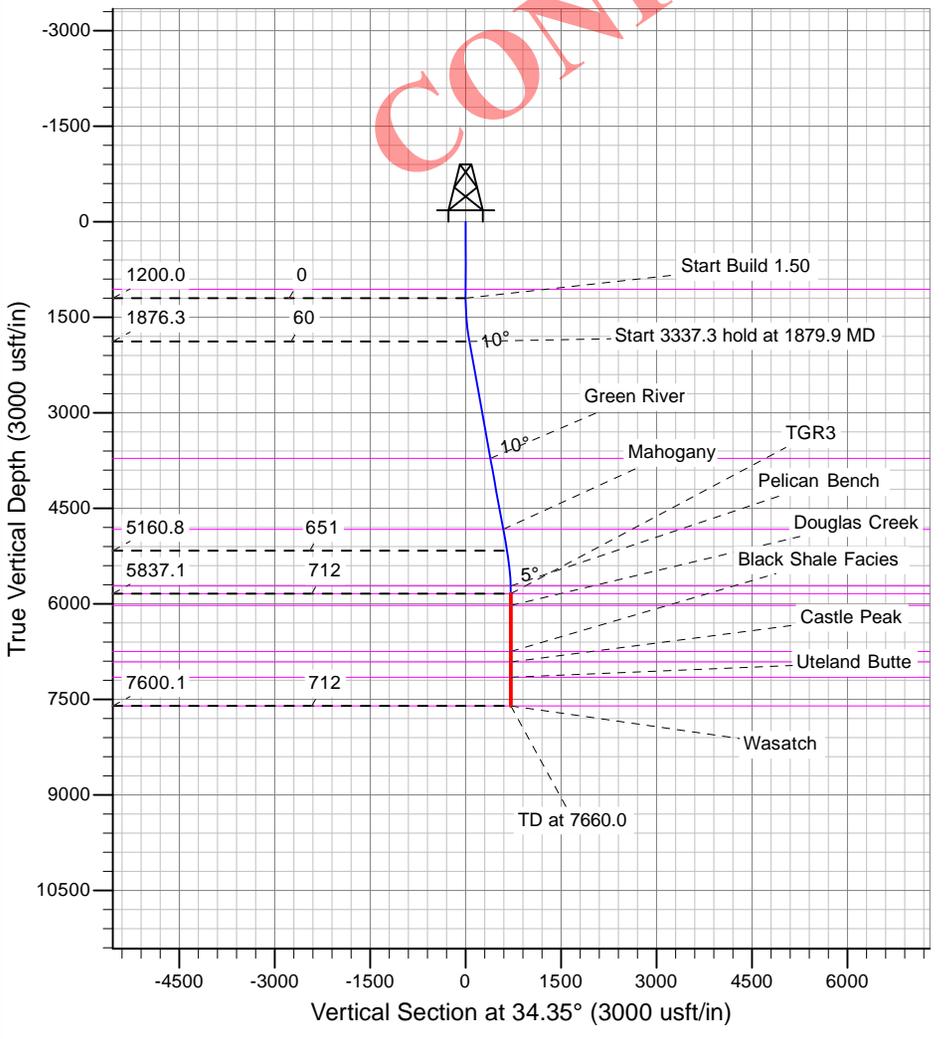
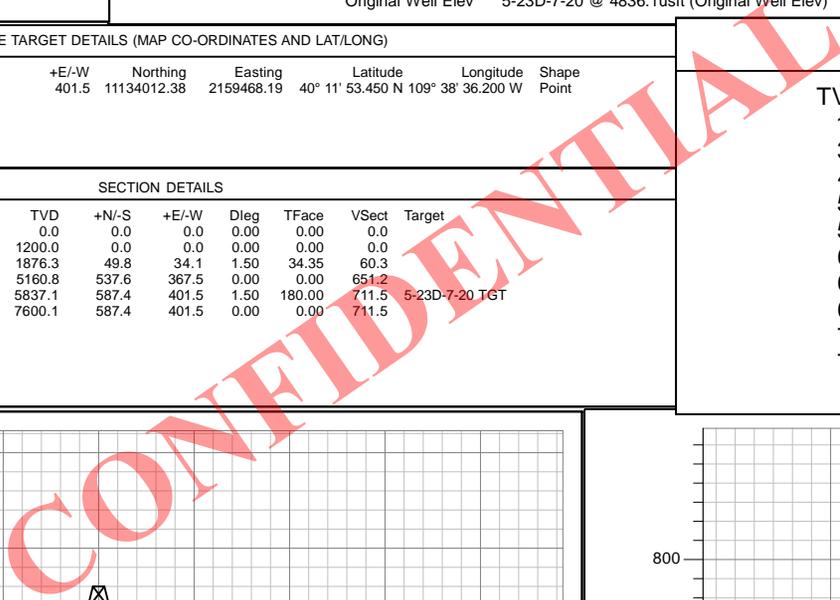
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape Point
5-23D-7-20 TGT	5837.1	587.4	401.5	11134012.38	2159468.19	40° 11' 53.450 N 109° 38' 36.200 W		

FORMATION TOP DETAILS

TVDPPath	MDPath	Formation	DipAngle	DipDir
1058.1	1058.1	Water	0.00	
3713.1	3746.2	Green River	0.00	
4828.1	4879.1	Mahogany	0.00	
5717.1	5777.0	Pelican Bench	0.00	
5837.1	5897.0	TGR3	0.00	
6023.1	6083.0	Douglas Creek	0.00	
6747.1	6807.0	Black Shale Facies	0.00	
6910.1	6970.0	Castle Peak	0.00	
7151.1	7211.0	Uteland Butte	0.00	
7600.1	7660.0	Wasatch	0.00	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Vsect	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	1879.9	10.20	34.35	1876.3	49.8	34.1	1.50	34.35	60.3	
4	5217.1	10.20	34.35	5160.8	537.6	367.5	0.00	0.00	651.2	
5	5897.0	0.00	0.00	5837.1	587.4	401.5	1.50	180.00	711.5	5-23D-7-20 TGT
6	7660.0	0.00	0.00	7600.1	587.4	401.5	0.00	0.00	711.5	



SURFACE USE AGREEMENT
(Aurora Federal 5-23D-7-20)

THIS AGREEMENT Dated May 8, 2014 by and between _____

Four Star Ranch, Inc.

whose address is 8281 North Trails Drive, Park City, Utah 84098
phone # (435-789-4424)

_____ , hereinafter referred to as "Surface Owner", and
Bill Barrett Corporation and its Subsidiaries , whose address is _____ 1099 18th Street, #2300, Denver, CO 80202
hereinafter referred to as "Operator".

WITNESSETH:

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

Township 7 South, Range 20 East, SLM
Section 23: A tract of land lying in the SW/4NW/4

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

WHEREAS, Operator has or will acquire certain leasehold interests within the next five (5) years 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.

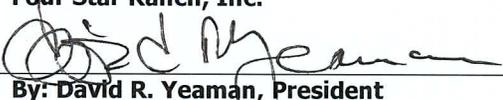
9. This Agreement shall remain in full force and effect from the date hereof and for so long thereafter as Operator's oil and gas operations affecting the Lands are in effect.

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:
Four Star Ranch, Inc.


By: **David R. Yeaman, President**

OPERATOR:
Bill Barrett Corporation


Mitchell J. Reneau, Vice President – Land

CONFIDENTIAL

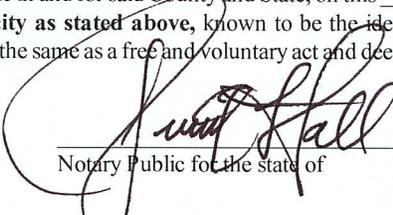
ACKNOWLEDGEMENT

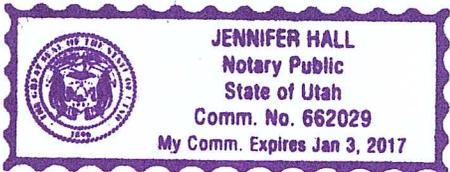
STATE OF UTAH

}
SS

COUNTY OF UTAH

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 8th day of May, 2014, personally appeared **David R. Yeaman, in the capacity as stated above**, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.


Notary Public for the state of _____
Residing at: VERMILION, UTAH



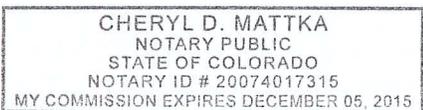
ACKNOWLEDGEMENT

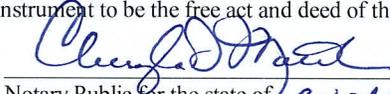
STATE OF COLORADO

}
SS

CITY & COUNTY OF DENVER

On the 15th day of May, 2014, before me the undersigned authority, appeared **Mitchell J. Reneau**, to me personally known, who, being sworn, did say that they are the Vice President – Land for Bill Barrett Corporation, and that the foregoing instrument was signed on behalf of said corporation and Appearer acknowledged to me that said instrument to be the free act and deed of the corporation.




Notary Public for the state of COLORADO
Residing at: Jefferson Co., Colorado

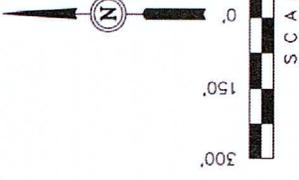
BILL BARRETT CORPORATION

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

(For AURORA FEDERAL #5-23D-7-20)

LOCATED IN SECTION 23, T7S, R20E, S.L.B.&M., UTAH COUNTY, UTAH

LINE	DIRECTION	LENGTH
L1	S87°36'08"E	23.47'
L2	S87°36'08"E	15.24'
L3	N00°56'34"W	371.49'
L4	N90°00'00"E	332.90'
L5	S51°05'34"E	190.36'
L6	S01°45'42"E	273.36'
L7	S89°12'47"W	482.91'
L8	N00°56'34"W	27.98'



BASIS OF BEARINGS

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

RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
FOUR STAR RANCH INC.	23.47	0.016	1.42

▲ = SECTION CORNERS LOCATED.



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

REV: C1-17-14 M.L.
REVISED: 12-11-13
REVISED: 12-10-13

REGISTERED LAND SURVEYOR
STATE OF UTAH - 01/17/17
REGISTRATION NO. 191319

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

SCALE	DATE
1" = 300'	11-19-13
PARTY	REFERENCES
T.A. J.L. C.A.G.	G.L.O. PLAT
WEATHER	FILE
COLD	5 5 6 2 8

Section Line

Spike

BEGINNING OF ROAD STA. 0+00 BEARS N17°06'13"E 30.77' FROM THE WEST 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.
END OF ROAD STA. 0+23.47 BEARS N48°49'30"E 43.18' FROM THE WEST 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

ROAD RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT IN THE SW 1/4 NW 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M., WHICH BEARS N17°06'13"E 30.77' FROM THE WEST 1/4 CORNER OF SAID SECTION 23, THENCE S87°36'08"E 23.47' TO A POINT IN THE SW 1/4 NW 1/4 OF SAID SECTION 23, WHICH BEARS N48°49'30"E 43.18' FROM THE WEST 1/4 CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.016 ACRES MORE OR LESS.

1/16 Section Line NE 1/4

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE SW 1/4 NW 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M., WHICH BEARS N48°49'30"E 43.18' FROM THE WEST 1/4 CORNER OF SAID SECTION 23, THENCE N00°56'34"W 371.49'; THENCE N90°00'00"E 332.90'; THENCE S51°05'34"E 190.36'; THENCE S01°45'42"E 273.36'; THENCE S89°12'47"W 482.91'; THENCE N00°56'34"W 27.98' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 4.168 ACRES MORE OR LESS.

NW 1/4

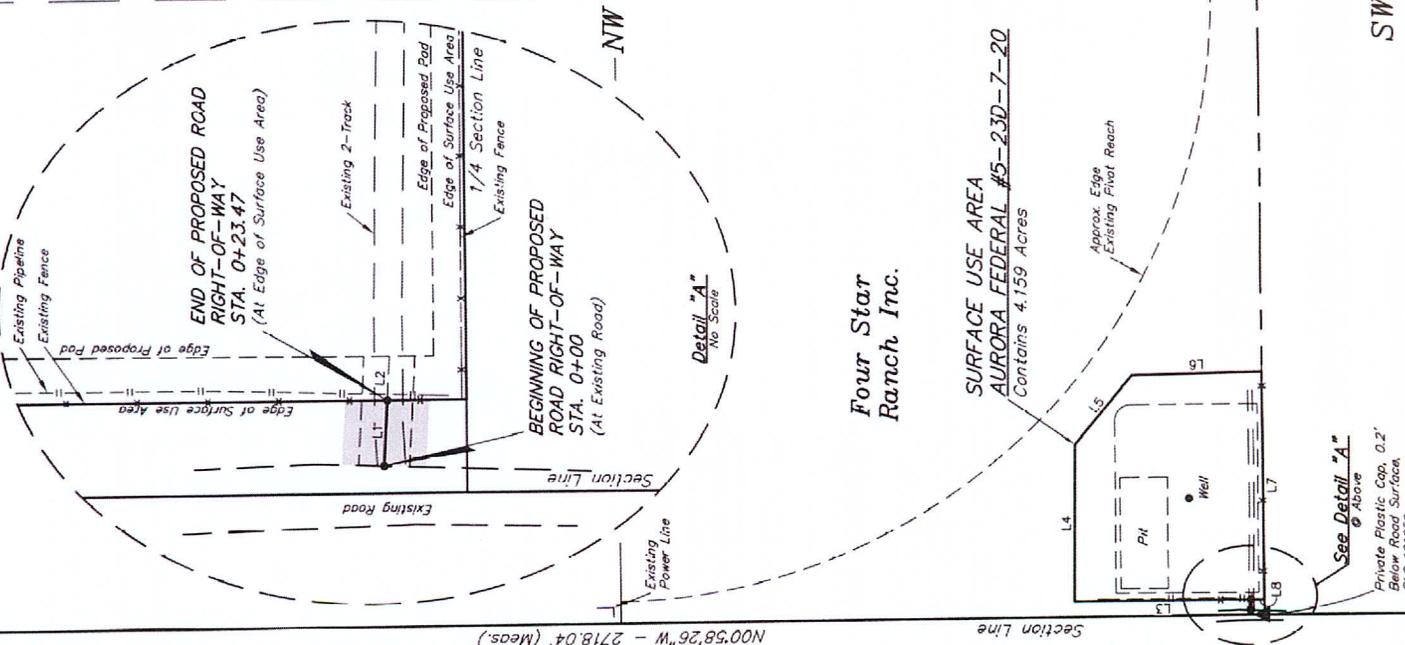
1/16 Section Line

1/4 Section Line

Sec. 23

SW 1/4

SE 1/4



Spike, 0.5' Below Road Surface

N00°58'26"W - 2718.04' (Meas.)

Section Line

See Detail "A" Above
Private Plastic Cap, 0.2' Below Road Surface, PLS 161259

Four Star Ranch Inc.

SURFACE USE AREA AURORA FEDERAL #5-23D-7-20 Contains 4.159 Acres

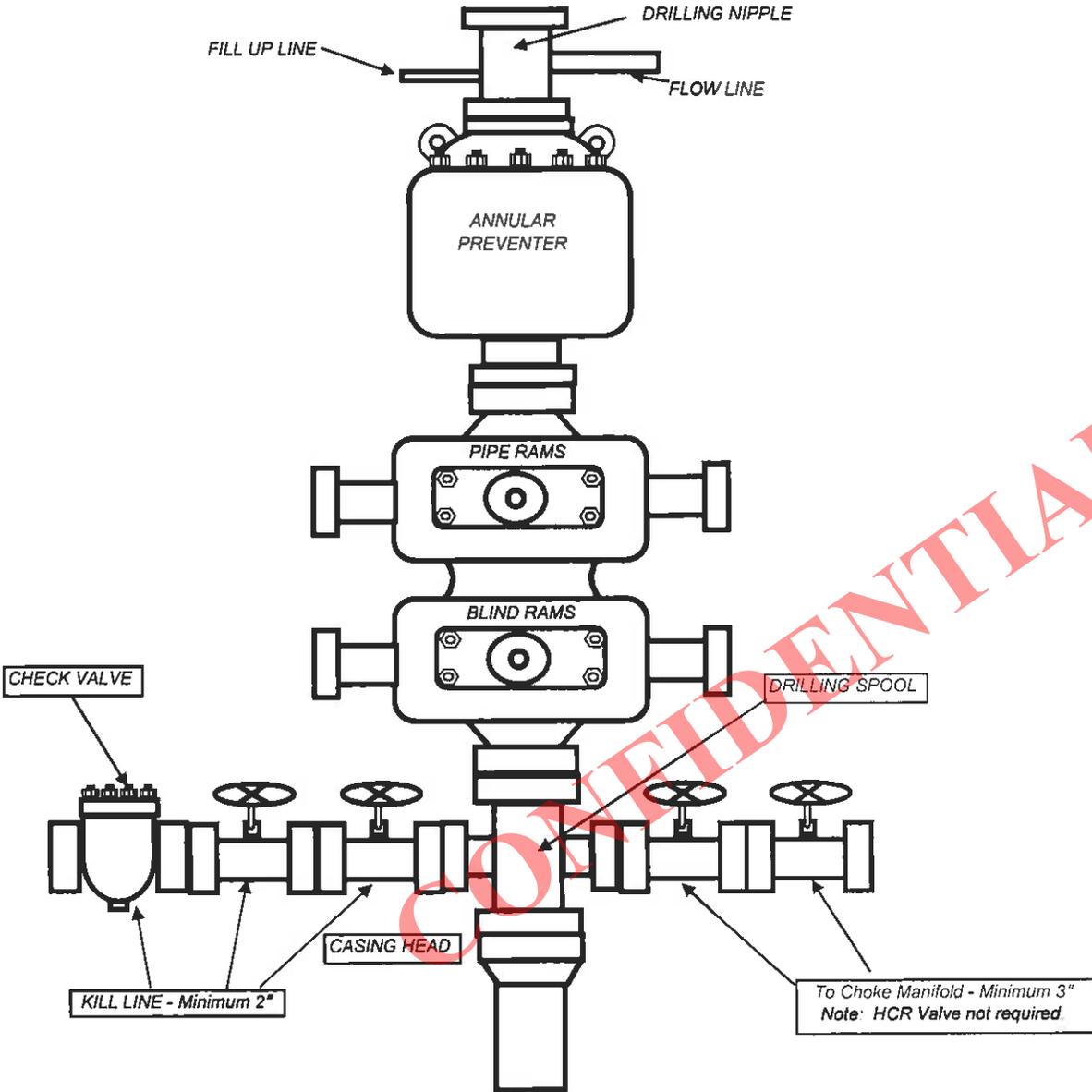
Approx. Edge Existing Pivot Reach

PH

Well

BILL BARRETT CORPORATION

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





May 19, 2014

Ms. Diana Mason – Petroleum Technician
State of Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P. O. Box 145801
Salt Lake City, Utah 84114-5801

Re: Directional Drilling Location- Aurora Federal 5-23D-7-20
East Bluebell Area
Surface: 249' FWL and 2562' FNL, Sec. 23, 7S-20E SLM
Bottom Hole: 660' FWL and 1980' FNL, Sec. 23, 7S-20E SLM

Uintah County, Utah

Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Sitting of Wells.

- The proposed location is within our East Bluebell Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under UTU-75093.
- BBC certifies that it is the owner of oil and gas in tracts within 460 feet from all points along the intended well bore and that all owners, now known, to the proposed directional drilling program, have been notified of BBC's intention to drill a directional well. BBC further certifies that it has obtained written consent from all owners in each tract within 460 feet of the intended well bore in which BBC is not an owner. The captioned well is subject to statewide citing.



Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8164.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Kevin T. Funk', is written over a light-colored background.

Kevin T. Funk
Land Technician II
BILL BARRETT CORPORATION

CONFIDENTIAL



May 20, 2014

Ms. Nicole Bailey
Crescent Point Energy Corporation
555 17th Street, Suite 1800
Denver, CO 80202

Re: Notification of Directional Drilling Program
Aurora Federal 5-23D-7-20 Well
Surface Location: 249' FWL, 2562' FNL, Sec 23-T7S-R20E
Bottom Hole Location: 660' FWL, 1980' FNL, Sec 23-T7S-R20E
Uintah County, Utah

Dear Ms. Bailey:

Bill Barrett Corporation ("BBC") is filing an Application for Permit to Drill for the referenced well. A recent search of the Uintah County records indicated that you are an "owner" within 460 feet of all points along the proposed wellbore in Section 23, T7S-R20E. In accordance with Utah Oil & Gas Conservation Rule R649-3-11.1.1, we are hereby notifying you of BBC's intent to directionally drill the Aurora Federal 5-23D-7-20 well at the surface and bottom hole locations set forth above and depicted on the attached plat.

BBC will be drilling this well as a directional well in order to accommodate topographic features and to minimize surface disturbance. Please indicate your consent by signing and returning one copy of the enclosed letter to my attention

Should you have any questions or need further information, please contact me at 303-312-8164 or via email at kfunk@billbarrettcorp.com.

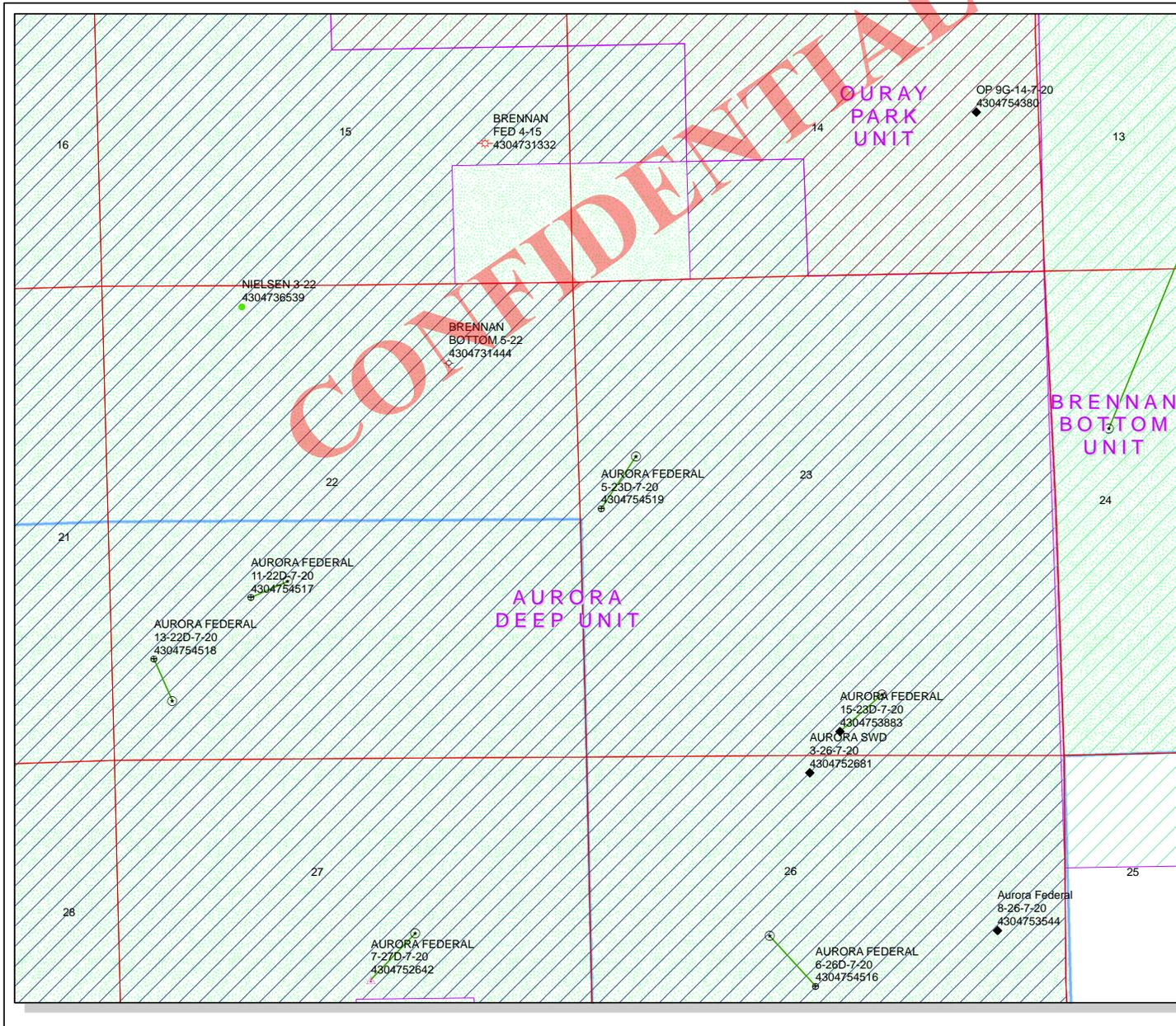
Very truly yours,

A handwritten signature in blue ink that reads 'Kevin T. Funk'.

Kevin T. Funk
Land Technician II
BILL BARRETT CORPORATION

Consent is hereby given to BBC to directionally drill the Aurora Federal 5-23D-7-20 well as described above:

By: N Bailey
Date: 5/27/14



API Number: 4304754519

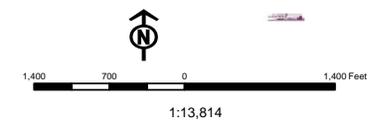
Well Name: AURORA FEDERAL 5-23D-7-20

Township: T07.0S Range: R20.0E Section: 23 Meridian: S

Operator: BILL BARRETT CORP

Map Prepared: 6/20/2014
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
◆ APD - Approved Permit		ACTIVE	
○ DRL - Spudded (Drilling Commenced)		EXPLORATORY	
↗ GRW - Gas Injection		GAS STORAGE	
★ GS - Gas Storage		NF PP OIL	
⊕ LOC - New Location		NF SECONDARY	
⊖ OPS - Operation Suspended		PI OIL	
⊘ PA - Plugged Abandoned		PP GAS	
⊙ PGW - Producing Gas Well		PP GEOTHERML	
⊙ POW - Producing Oil Well		PP OIL	
⊙ SGW - Shut-in Gas Well		SECONDARY	
⊙ SOW - Shut-in Oil Well		TERMINATED	
⊙ TA - Temp. Abandoned			
○ TW - Test Well		Fields	
○ WDW - Water Disposal		Unknown	
○ WW - Water Injection Well		ABANDONED	
● WSW - Water Supply Well		ACTIVE	
		COMBINED	
		INACTIVE	
		STORAGE	
		TERMINATED	



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:

**3160
(UT-922)**

June 23, 2014

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Aurora (Deep) Unit,
Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Aurora (Deep) Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
Proposed PZ (GREEN RIVER-WASATCH)		
43-047-54511	AURORA FEDERAL 6-28D-7-20	Sec 28 T07S R20E 1931 FNL 2252 FWL
		BHL Sec 28 T07S R20E 1980 FNL 1980 FWL
43-047-54512	AURORA FEDERAL 13-28D-7-20	Sec 28 T07S R20E 1300 FSL 0253 FWL
		BHL Sec 28 T07S R20E 0700 FSL 0700 FWL
43-047-54513	AURORA FEDERAL 12-28D-7-20	Sec 28 T07S R20E 1300 FSL 0269 FWL
		BHL Sec 28 T07S R20E 1980 FSL 0700 FWL
43-047-54514	AURORA FEDERAL 4-17D-7-20	Sec 17 T07S R20E 0293 FNL 0267 FWL
		BHL Sec 17 T07S R20E 0660 FNL 0660 FWL
43-047-54515	AURORA FEDERAL 13-26D-7-20	Sec 26 T07S R20E 0235 FSL 1148 FWL
		BHL Sec 26 T07S R20E 0660 FSL 0660 FWL
43-047-54516	AURORA FEDERAL 6-26D-7-20	Sec 26 T07S R20E 2600 FNL 2525 FWL
		BHL Sec 26 T07S R20E 2034 FNL 2022 FWL
43-047-54517	AURORA FEDERAL 11-22D-7-20	Sec 22 T07S R20E 1832 FSL 1585 FWL
		BHL Sec 22 T07S R20E 2009 FSL 2006 FWL
43-047-54518	AURORA FEDERAL 13-22D-7-20	Sec 22 T07S R20E 1150 FSL 0473 FWL
		BHL Sec 22 T07S R20E 0670 FSL 0670 FWL
43-047-54519	AURORA FEDERAL 5-23D-7-20	Sec 23 T07S R20E 2562 FNL 0249 FWL
		BHL Sec 23 T07S R20E 1980 FNL 0660 FWL
43-047-54521	AURORA FEDERAL 9-27D-7-20	Sec 27 T07S R20E 2523 FSL 1091 FEL
		BHL Sec 27 T07S R20E 1980 FSL 0660 FEL

RECEIVED: June 24, 2014

Please be advised that effective November 11, 2013, the Aurora (Deep) Unit contracted to lands in or entitled to be in a participating area. The final participating area boundaries have been determined and we are currently processing the contraction application. The subject wells will not be in the contracted unit area.

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land
Management, ou=Division of Minerals,
email=mcoultha@blm.gov, c=US
Date: 2014.06.23 14:05:11 -06'00'

CONFIDENTIAL

bcc: File - Aurora Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:6-23-14

RECEIVED: June 24, 2014

Berm Required? Y

Permeable soil, nearby crop fields

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

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	25 to 75	15
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		40 1 Sensitivity Level

Characteristics / Requirements

The reserve pit as proposed is 200' x 100' x 10' deep and is placed in a cut stable location. According to Bill Barrett Corporation representative Kary Eldredge a 20 mil reserve pit liner and felt subliner is typically used and this will adequate for the site.

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

Richard Powell
Evaluator

6/25/2014
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
9881	43047545190000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	FOUR STAR RANCH	
Well Name	AURORA FEDERAL 5-23D-7-20		Unit	AURORA (DEEP)	
Field	BRENNAN BOTTOM		Type of Work	DRILL	
Location	SWNW 23 7S 20E S 2562 FNL (UTM) 615344E 4450457N		249 FWL GPS Coord		

Geologic Statement of Basis

The mineral rights for the proposed well are owned by the Federal Government. The BLM will be the agency responsible for evaluating and approving the drilling, casing and cement programs.

Brad Hill
APD Evaluator

7/7/2014
Date / Time

Surface Statement of Basis

This well is on fee surface with federal minerals. Surface owner David Yaeman of the Four-Star ranch was in attendance for this and several other onsite inspections on Four-Star Ranch property. Mr. Yaeman stated that prior to placement of the wells on the Four-Star Ranch land, he was consulted by Bill Barrett Corporation and all locations were placed such that his farming and livestock operation would not be disturbed. This well sits in the corner of a large irrigated farm field out of the reach of a large circular pivot irrigation system. Mr. Yaeman stated no objections to drilling at this site. Christine Cimiluca of the BLM was also in attendance and stated no objections or concerns to drilling at this site. According to Kary Eldredge a 20 mil liner and felt subliner will be used for this reserve pit and this appears adequate for the site. Due to permeable soils this well pad must be bermed to keep any leaked or spilled fluids contained to the pad.

Richard Powell
Onsite Evaluator

6/25/2014
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 entering or leaving the pad.
Surface	Measures (BMP's) shall be taken to protect steep slopes and topsoil pile from erosion, sedimentation and stability issues.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/18/2014

API NO. ASSIGNED: 43047545190000

WELL NAME: AURORA FEDERAL 5-23D-7-20

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SWNW 23 070S 200E

Permit Tech Review:

SURFACE: 2562 FNL 0249 FWL

Engineering Review:

BOTTOM: 1980 FNL 0660 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.19659

LONGITUDE: -109.64485

UTM SURF EASTINGS: 615344.00

NORTHINGS: 4450457.00

FIELD NAME: BRENNAN BOTTOM

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU78445

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000040
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 49-1645
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: AURORA (DEEP)
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: R649-3-11
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 1 - Exception Location - bhll
4 - Federal Approval - dmason
5 - Statement of Basis - bhll
15 - Directional - dmason
23 - Spacing - dmason



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: AURORA FEDERAL 5-23D-7-20
API Well Number: 43047545190000
Lease Number: UTU78445
Surface Owner: FEE (PRIVATE)
Approval Date: 7/8/2014

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 R649-3-11. The expected producing formation or pool is the 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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

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

Conditions of Approval:

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

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

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled,

completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

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

Notification Requirements:

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047545190000
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: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM 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: 7/21/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input 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 checked="" 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.

In accordance with Utah Division of Oil, Gas, and Mining's Rule 649-3-22, completion into two or more pools, BBC is submitting this sundry to request commingling approval for the Green River and Wasatch formations. Oil and associated gas composition is similar across all formations. The pressure profile across the formations is similar and BBC does not anticipate any cross flow. Production is considered to be from one pool. In the event that allocation by zone or interval is required, BBC would use representative sampling obtained from production logs and allocate on a percentage basis by zone or interval. A letter and affidavit of notice is attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining**
 August 28, 2014
Date: _____
By: Dark Quist

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 7/21/2014	



July 16, 2014

Utah Division of Oil, Gas and Mining
Attention: Dustin Doucet
1594 West North Temple, Suite 1120
Salt Lake City, UT 84116

RE: Commingling Notice
East Bluebell Area
AURORA FEDERAL 5-23D-7-20
SWNW, Section 23 T7S-R20E
Uintah County, Utah

Dear Mr. Doucet,

Bill Barrett Corporation (BBC) has submitted Notices to commingle production from the Wasatch and Green River Formations in the subject well located in East Bluebell Area. BBC has notified all owners of oil and gas leases contiguous to the drilling unit.

Should you require additional information in this please feel free to contact me at 303-312-8164. Your earliest attention to this matter is appreciated.

Regards,

A handwritten signature in black ink that reads 'Kevin T. Funk' with a stylized 'K' and 'F'. Below the name, there is a small signature that appears to be 'KTF'.

Kevin T. Funk
Landman I
BILL BARRETT CORPORATION

Enclosures



AFFIDAVIT OF NOTICE

My name is Kevin T. Funk. I am a Landman with Bill Barrett Corporation (BBC). BBC has submitted An application to commingle production from the Wasatch and Green River formations in the following well within our East Bluebell Field:

AURORA FEDERAL 5-23D-7-20 SWNW Section 23 T7S-R20E

Bill Barrett Corporation has notified all owners in lands contiguous to drilling unit. The Lessees are listed below.

Lessees:
Crescent Point Energy Corporation
Robert Bayless Producer, LLC

Date: July 16, 2014

Affiant

Regards,

A handwritten signature in black ink that reads 'Kevin T. Funk' with 'for' written below it.

Kevin T. Funk
Landman I
BILL BARRETT CORPORATION

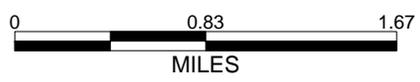


BBC Leasholds as of 5/15/2013



East Bluebell

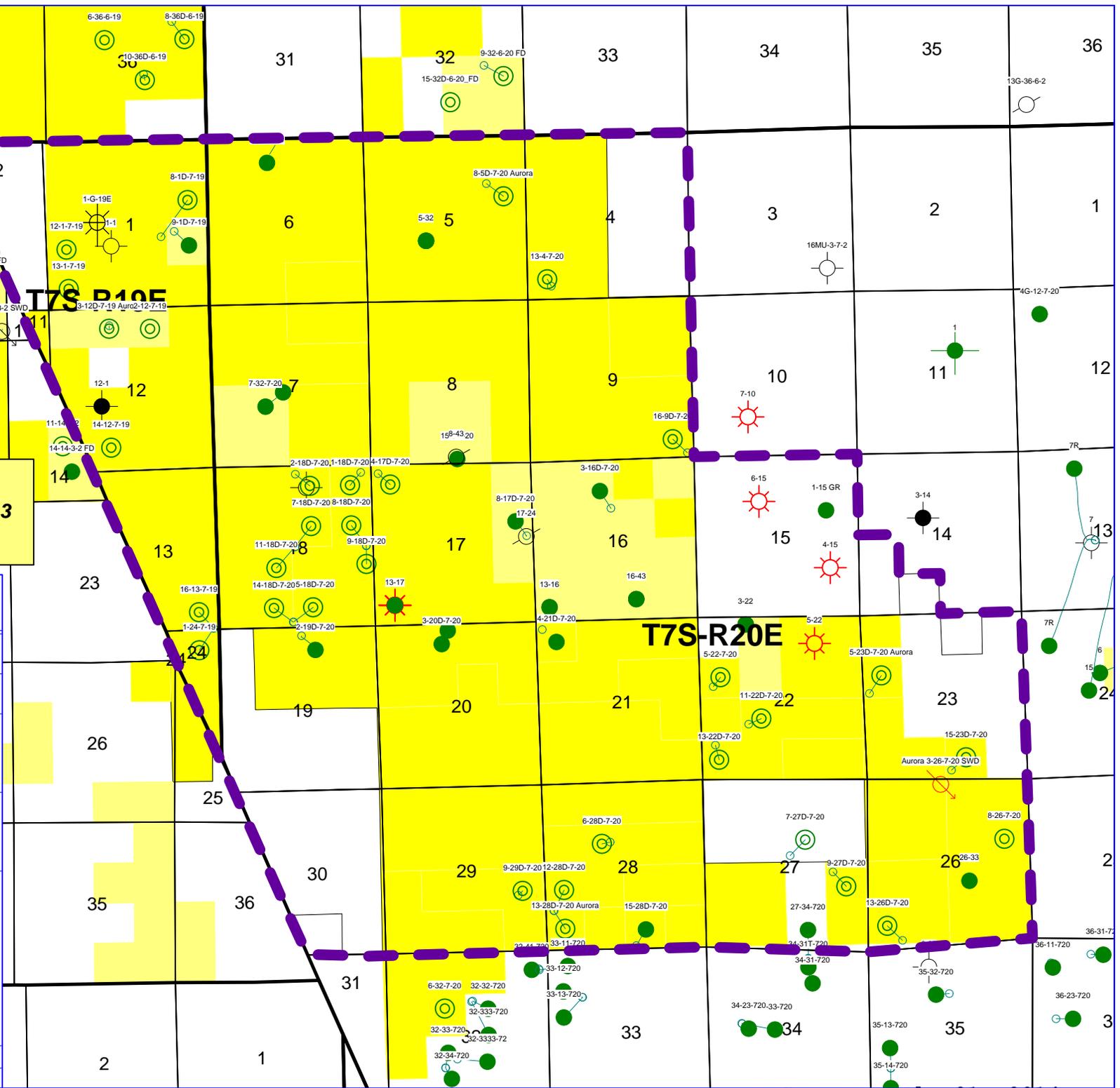
Aurora



POSTED WELL DATA
Well Number

- WELL SYMBOLS**
- Abandon Loc
 - Abandoned GAS Well
 - Abandoned Oil Well
 - Dry hole
 - Gas Well
 - Oil Well
 - Proposed SWD
 - Plugged & Abandoned Oil Well
 - Salt Water Disposal
 - State Approved Location

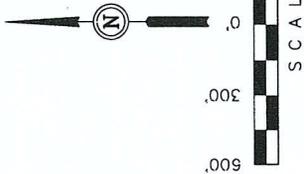
By: DSM
July 21, 2014



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047545190000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/27/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. ATTACHED PLEASE FIND THE PIPELINE ROW AGREEMENT FOR THE APPROVED PIPELINE ROUTE ASSOCIATED WITH THIS WELL.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 28, 2014
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 8/27/2014

BILL BARRETT CORPORATION
PIPELINE RIGHT-OF-WAY
ON FEE LANDS

(For **AURORA FEDERAL**
#5-23D-7-20)
 LOCATED IN
 SECTION 23, T7S, R20E, S.L.B.&M.,
 JUNTAH COUNTY, UTAH



SCALE

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

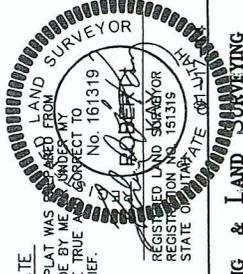
RIGHT-OF-WAY LENGTHS

PROPERTY OWNER	FEET	ACRES	RODS
LEE AND DUSTY OLSEN	2649.72	1.825	150.58
FOUR STAR RANCH INC.	42.86	0.030	2.50

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

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



VERNAL ENGINEERING & LAND SURVEYING
 35 SOUTH - 2ND EAST • (435) 739-1177
 VERNAL, UTAH - 84078

SCALE	DATE
1" = 500'	01-17-14
PARTY	REFERENCES
T.A. J.L. M.L.	G.L.O. PLAT
WEATHER	FILE
COLD	5 5 5 2 9

NE 1/4

23 PIPELINE RIGHT-OF-WAY DESCRIPTION
ON LEE & DUSTY OLSEN LANDS

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

BEGINNING AT A POINT ON THE NORTH LINE OF THE NW 1/4 SW 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M., WHICH BEARS N89°13'01"E 33.66' FROM THE WEST 1/4 CORNER OF SAID SECTION 23, THENCE S00°41'59"E 2613.81'; THENCE S02°21'28"E 35.91' TO A POINT ON THE SOUTH LINE OF THE SW 1/4 SW 1/4 OF SAID SECTION 23, WHICH BEARS S89°32'00"E 34.68' FROM THE SOUTHWEST CORNER OF SAID SECTION 23. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 1.825 ACRES MORE OR LESS.

SE 1/4

LINE	DIRECTION	LENGTH
L1	N89°31'34"W	14.35'
L2	S00°41'28"E	60.18'
L3	S00°41'59"E	2613.81'
L4	S02°21'28"E	35.91'
L5	S02°21'28"E	42.86'

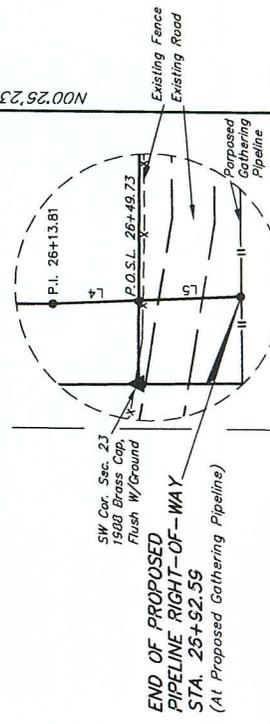
TYPICAL RIGHT-OF-WAY DETAIL
 NO SCALE

1500 Brass Cap, Flush W/Ground, N/E/W Fenceline
 N89°07'18"W - 2695.08' (Meas.)
 1500 Brass Cap, 0.2' High, E-W Fenceline

BEGINNING OF PIPELINE STA. 0+00 BEARS N89°13'01"E 33.66' FROM THE WEST 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

P.O.S.L. STA 26+49.73 BEARS S89°32'00"E 34.68' FROM THE WEST 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

END OF PIPELINE STA. 25+92.59 BEARS S40°12'39"E 56.45' FROM THE SOUTHWEST CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.



1500 Brass Cap, 0.5' High, Pile of Stones, N-S Fenceline
 SW Cor. Sec. 23
 1500 Brass Cap, Flush W/Ground
 P.O.S.L. 26+49.73
 P.I. 26+13.81
END OF PROPOSED PIPELINE RIGHT-OF-WAY
STA. 25+92.59
 (At Proposed Gathering Pipeline)
 Alum. Cap
 S89°55'52"W - 2677.55' (Meas.)
 Detail "g"
 No Scale

NW 1/4

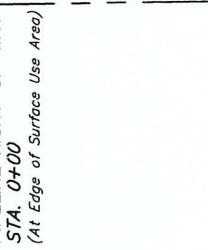
Four Star Ranch Inc.

PIPELINE RIGHT-OF-WAY DESCRIPTION
ON FOUR STAR RANCH LANDS

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

BEGINNING AT A POINT ON THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SECTION 25, T7S, R20E, S.L.B.&M., WHICH BEARS S89°32'00"E 34.68' FROM THE NORTHWEST CORNER OF SAID SECTION 25, THENCE S02°21'28"E 42.86' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 25, WHICH BEARS S40°12'39"E 56.45' FROM THE NORTHWEST CORNER OF SAID SECTION 25. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.030 ACRES MORE OR LESS.

SW 1/4



See Detail "g" @ Bottom Right

Section Line
 N89°32'00"W - 2695.56' (Meas.)

Four Star Ranch Inc.

PIPELINE RIGHT-OF-WAY DESCRIPTION
ON FOUR STAR RANCH LANDS

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

BEGINNING AT A POINT ON THE NORTH LINE OF THE NW 1/4 NW 1/4 OF SECTION 25, T7S, R20E, S.L.B.&M., WHICH BEARS S89°32'00"E 34.68' FROM THE NORTHWEST CORNER OF SAID SECTION 25, THENCE S02°21'28"E 42.86' TO A POINT IN THE NW 1/4 NW 1/4 OF SAID SECTION 25, WHICH BEARS S40°12'39"E 56.45' FROM THE NORTHWEST CORNER OF SAID SECTION 25. THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 0.030 ACRES MORE OR LESS.

1500 Brass Cap, 0.3' High, Steel Post
 S89°55'44"W - 2677.34' (Meas.)
Sec. 26

Private Plastic Cap, 0.2' Below Road Surface, RLS 151255

See Detail "A" @ Below Right

Section Line N00°42'01"W - 2648.55' (Meas.)

Section Line N00°22'34"W - 2712.42' (Meas.)

Section Line S89°55'52"W - 2677.55' (Meas.)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
JUL 07 2014

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM Vernal UT
CONFIDENTIAL

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU78445
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: BRADY RILEY E-Mail: briley@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8115	8. Lease Name and Well No. AURORA FEDERAL 5-23D-7-20
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface SWNW 2562FNL 249FWL 40.196589 N Lat, 109.644825 W Lon At proposed prod. zone SWNW 1980FNL 660FWL		9. API Well No. 4304784519
14. Distance in miles and direction from nearest town or post office* 24.0 MILES TO VERNAL, UTAH		10. Field and Pool, or Exploratory BRENNAN BOTTOM
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660 FEET TO NEAREST LEASE LINE	16. No. of Acres in Lease 80.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 23 T7S R20E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 4764 FEET TO NEAREST PRODUCING WELL	19. Proposed Depth ON 7600 TD 7600 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4822 GL	22. Approximate date work will start 11/01/2014	13. State UT
		17. Spacing Unit dedicated to this well 80.00
		20. BLM/BIA Bond No. on file WYB000040
		23. Estimated duration 60 DAYS (D&C)

24. Attachments

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

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) BRADY RILEY Ph: 303-312-8115	Date 07/02/2014
Title PERMIT ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date AUG 26 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

RECEIVED

AUG 29 2014

DIV. OF OIL, GAS & MINING

Additional Operator Remarks (see next page)

Electronic Submission #251540 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal

NOTICE OF APPROVAL

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

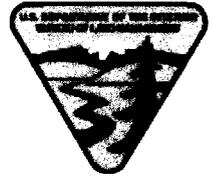


UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: BILL BARRETT CORPORATION
Well No: AURORA FEDERAL 5-23D-7-20
API No: 43-047-54519

Location: SWNW, Sec. 23, T7S, R20E
Lease No: UTU-78445
Agreement:

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

STIPULATIONS / CONDITIONS OF APPROVAL

Company/Operator: Bill Barrett Corporation (BBC)
Well Name & Number: Aurora Federal 11-22D-7-20, 13-22D-7-20, 5-23D-7-20,
6-26D-7-20, 13-26D-7-20, and 6-28D-7-20
Surface Ownership: Private (Four Star Ranch)
Lease Number: UTU-75093, UTU-78445, UTU-74417, and UTU-85591
Location(s): Sec. 22, 23, 26, and 28 of T7S, R20E, SL B&M

CONDITIONS OF APPROVAL:

- In the case of any deviation from the submitted APD(s), which includes BBC's surface use plan and any applicable ROW applications, the operator will notify the BLM in writing and will receive written authorization of any such change with appropriate authorization.
- The operator will implement "Safety and Emergency Plan." The operator's safety director will ensure its compliance.

Construction

- The private landowner (Four Star Ranch) will be notified by BBC prior to commencement of construction of the well pad and related infrastructure.
- All operator employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COAs, and ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Roads shall be crown and ditched to divert any runoff from pooling on the road surface itself, this also aids in lessening erosion on the road and disturbed area. Wing ditches can be installed to also

aid in controlling runoff from affecting the proposed road. These should be spaced to adequately catch any runoff along the ditches and aid in diverted water to the surrounding vegetation.

- The operator must conduct operations to minimize adverse effects to surface and subsurface resources, prevent unnecessary surface disturbance, and conform to currently available technologies and practices.
- If cattleguards or gates are required along the access roads construction will be to BLM/USFS Gold Book standards or better.
- If culverts are required along the proposed access road(s), they will be a minimum of 18 inches in diameter and installed to meet BLM/USFS Gold Book standards.
- A minimum 16 mil liner is required for the reserve pits.
- No construction or soil disturbing activities will occur during times of saturated soils (usually spring runoff and fall rains).

Reclamation and Vegetation

- Noxious and invasive weeds will be treated, monitored, and controlled along both the access road and pipeline routes, and on the well pad.
- Minimal vegetation removal will occur around the well pad to lessen the visual impact and to aid in re-vegetation efforts in the future.
- Operator will ensure topsoil stability on location and use topsoil for interim reclamation as soon as possible to maintain viability of topsoil resource. Topsoil piles will be "track-walked," crusted and seeded to prevent topsoil erosion.
- Whenever feasible, tanks and other equipment needed for production activities should be located toward the entrance (front) of the well pad in order to maximize interim reclamation.
- Site reclamation would be accomplished for portions of the well pad not needed for production, within 6 months of completion, weather permitting. This also includes any roads, and pipeline areas that have been disturbed as well. Roads and pipeline disturbances can undergo reclamation immediately after the pipeline is installed and after the roads are built. Please contact the landowner or the BLM for possible seed mixes to use in the project area. Seeds should be planted in August and prior to ground freeze. Non-natives can be used; however lbs/ac must be kept low to minimize the chance of a monoculture.

Visual Resources

- All permanent (on site for 6 months or longer) structures constructed or installed (including pumping units) will be painted Covert Green in order to blend with the surrounding vegetation. All facilities will be painted within 6 months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) are excluded.

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

SITE SPECIFIC DOWNHOLE COAs:

- Aurora Federal: 6-28D-7-20, 11-22D-7-20, 9-27D-7-20, 13-22D-7-20, 5-23D-7-20, 6-26D-7-20, 13-26D-7-20

Site Specific Drilling Plan COA's

- Cement for long-string shall be circulated to 200' above the surface casing shoe.
- Cement for surface casing shall be circulated to surface
- Lead cement for surface casing shall be a minimum of 12 ppg
- Tail cement for surface casing shall be 15.8 ppg

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	
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.	
1. TYPE OF WELL Oil Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
2. NAME OF OPERATOR: BILL BARRETT CORP	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S	8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
PHONE NUMBER: 303 312-8134 Ext	9. API NUMBER: 43047545190000
9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	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: 7/8/2015	<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 this APD through 7/8/2016

Approved by the
June 08, 2015
Oil, Gas and Mining

Date: _____
By:

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 6/1/2015	



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 43047545190000

API: 43047545190000

Well Name: AURORA FEDERAL 5-23D-7-20

Location: 2562 FNL 0249 FWL QTR SWNW SEC 23 TWNP 070S RNG 200E MER S

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 7/8/2014

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: Brady Riley

Date: 6/1/2015

Title: Permit Analyst Representing: BILL BARRETT CORP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
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.		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047545190000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input 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: 7/24/2015 <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.		
This well was spud on 7/24/2015 at 7:00 am by Triple A Drilling, Rig #TA 4037, Rig Type Soilmec SR/30. Continuous drilling is planned to commence on 9/25/2015.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 27, 2015		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A		DATE 7/27/2015

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS 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: UTU78445
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047545190000
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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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/1/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well was spud on 7/24/2015. Continuous drilling is planned to commence on 9/25/2015.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 04, 2015		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 8/3/2015	

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# ProPetro 8 Submitted By
Jack Warr Phone Number 970-261-4665
Well Name/Number Aurora Fed 5-23D-7-20
Qtr/Qtr SW/NW Section 23 Township 7S Range 20E
Lease Serial Number _____
API Number 43-047-54519

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 8-6-15 04:00 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 1200' OF 8 5/8", 24#, J-55, STC csg & cmt

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS 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: UTU78445
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047545190000
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached find the monthly drilling activity for this well in August of 2015.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 01, 2015		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/1/2015	

**Aurora Federal 5-23D-7-20 8/5/2015 10:00 - 8/6/2015 06:00**

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 1,240.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
10:00	6.00	16:00	1	RIGUP & TEARDOWN	MI/RU ProPetro Rig #8
16:00	13.00	05:00	2	DRILL ACTUAL	DRLG F/ 118'-1240' 12 1/4" Hole
05:00	1.00	06:00	5	COND MUD & CIRC	Circ - Blow Hole Prep to TOH For 8-5/8" casing

Aurora Federal 5-23D-7-20 8/6/2015 06:00 - 8/7/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 1,240.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	6	TRIPS	TOH For 8-5/8" surface Casing
07:30	1.00	08:30	12	RUN CASING & CEMENT	R/U to Run Casing
08:30	1.50	10:00	12	RUN CASING & CEMENT	Run 28 Jts 8-5/8" Csg = Float shoe; 1 Jt Csg; Float Collar: 27 Jts Csg. Total 1231.6'
10:00	1.00	11:00	12	RUN CASING & CEMENT	Wait On Halliburton - Approval To Pump Thru Rig Equipment (Kelly Hose Rated For 3000 Psi - Finally Got approval. To wash Down Last 3 Jts. to Btm
11:00	1.00	12:00	3	REAMING	Wash 120' to Btm f/ 1120'
12:00	3.00	15:00	12	RUN CASING & CEMENT	R/U Halliburton & Cement = 10 Bbl H2O, 40Bbl Super Flush, 10 Bbl H2O, 250 sx (106 Bbl) Lead @ 12.0 ppg, 2.37 yld, 13.95 gps water, 2% ca/cl2, 1/4# / sk Flocele - Tail w/ 365 sx (75 Bbl) 15.8 ppg, 1.16 yld, 5.14 gps water. Displace w/ 76 Bbl Fresh Water, Bump Plug, Floats Held - Final lift Pressure 500 psi Bumped w/ 500 psi over = 1000 psi 80 Bbl Cement Back to surface.
15:00	0.50	15:30	13	WAIT ON CEMENT	W.O.C.
15:30	0.50	16:00	12	RUN CASING & CEMENT	R/U & Run 140' of 1" pipe Down Annulus, Top Out w/ 100 sx 15.8 ppg (15.72 Bbl) Cement Did Not Fall Back - Release Halliburton.
16:00	14.00	06:00	1	RIGUP & TEARDOWN	Rig Released - Move to AF 13-28D-7-20

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445	
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
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.		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20	
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047545190000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/1/2015	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Attached find the monthly drilling activity for this well in September of 2015.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 02, 2015			
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst	
SIGNATURE N/A	DATE 10/1/2015		

**Aurora Federal 5-23D-7-20 9/2/2015 06:00 - 9/3/2015 06:00**

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	18.00	00:00	1	RIGUP & TEARDOWN	MIRU.
00:00	4.00	04:00	14	NIPPLE UP B.O.P	NUBOP. Rig on daywork @ 00:00.
04:00	2.00	06:00	15	TEST B.O.P	HSM. Test BOP with B&C Quicktest. Test dart valve. Bottom flange leaking. Notified BLM, UDOGM & BBC Regulatory 9-2-15 @ 06:20 of BOP test.

Aurora Federal 5-23D-7-20 9/3/2015 06:00 - 9/4/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	15	TEST B.O.P	HSM. Test BOP with BC Quicktest. Test pipe rams, blind rams, fosv, inside bop, choke line & valves, choke manifold, kill line, inside & outside valve, hcr, manual valve @ 5000 psi high f/10 min, annular @ 1500 psi f/10 min high, csg @ 1500 psi f/30 min. Accumulator function test. Notified BLM, UDOGM & BBC Regulatory 9-2-15 @ 06:20 of BOP test. Test witnessed by Mitch of Vernal BLM.
11:30	2.00	13:30	21	OPEN	Finish rigging up flowline, chase down leaks.
13:30	1.50	15:00	20	DIRECTIONAL WORK	PU bit, mm, scribe and orient tools.
15:00	2.50	17:30	8	REPAIR RIG	Repair iron roughneck, replace hook load sensor.
17:30	0.50	18:00	20	DIRECTIONAL WORK	Finish picking up dir tools.
18:00	4.50	22:30	6	TRIPS	Tih. tag cement @ 1188'.
22:30	1.00	23:30	21	OPEN	Drill cmt and fit equip plus 20' new hole to 1260'.
23:30	0.50	00:00	21	OPEN	FIT to 138 psi f/10.5 EMW.
00:00	6.00	06:00	2	DRILL ACTUAL	Steerable drlg 1260' - 1906' . Spp 1400 psi, DP 300 psi, Gpm 450, Rpm 56, Wob 22k, Rop 111 fph. Spud well @ 00.00. BOP drill morning tour.

Aurora Federal 5-23D-7-20 9/4/2015 06:00 - 9/5/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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 1906' - 3030' . Spp 1600 psi, DP 300 psi, Gpm 450, Rpm 56, Wob 22k, Rop 107 fph. BOP drill daylights.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	13.00	06:00	2	DRILL ACTUAL	Steerable drlg 3030' - 3898' . Spp 1600 psi, DP 250 psi, Gpm 440, Rpm 56, Wob 19k, Rop 67 fph. Started 15 ppb/10 bbl sweeps Strata Flex fine @ 3500'.

Aurora Federal 5-23D-7-20 9/5/2015 06:00 - 9/6/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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 3898' - 4400' . Spp 1600 psi, DP 250 psi, Gpm 440, Rpm 56, Wob 23k, Rop 48 fph. 15 ppb/10 bbl sweeps Strata Flex fine every 90'.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	13.00	06:00	2	DRILL ACTUAL	Steerable drlg 4400' - 4807' . Spp 1600 psi, DP 200 psi, Gpm 460, Rpm 56, Wob 20k, Rop 31 fph. 15 ppb/10 bbl sweeps Strata Flex fine every 90'.

Aurora Federal 5-23D-7-20 9/6/2015 06:00 - 9/7/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Steerable drlg 4807' - 5127' .Spp 1600 psi, DP 200 psi, Gpm 460, Rpm 56, Wob 20k, Rop 34 fph. 15 ppb/10 bbl sweeps Strata Flex fine every 90'.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service.
16:00	14.00	06:00	2	DRILL ACTUAL	Steerable drlg 5127' - 5355' .Spp 1600 psi, DP 200 psi, Gpm 460, Rpm 56, Wob 20k, Rop 16 fph. 15 ppb/10 bbl sweeps Strata Flex fine every 90'.

Aurora Federal 5-23D-7-20 9/7/2015 06:00 - 9/8/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	5	COND MUD & CIRC	C&C, build & pump pill.
06:30	5.50	12:00	6	TRIPS	Toh. Tight @ 5300', 2112'.
12:00	2.00	14:00	20	DIRECTIONAL WORK	LD bit, MM, reamers. PU new bit, MM. Scribe tools.
14:00	5.50	19:30	6	TRIPS	Tih.
19:30	10.50	06:00	2	DRILL ACTUAL	Steerable drlg 5355' - 6027' .Spp 1850 psi, DP 250 psi, Gpm 470, Rpm 50, Wob 22k, Rop 64 fph. 15 ppb/10 bbl sweeps Strata Flex fine every 90' to 5500'.

Aurora Federal 5-23D-7-20 9/8/2015 06:00 - 9/9/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.50	16:30	2	DRILL ACTUAL	Steerable drlg 6027' - 6807' .Spp 1850 psi, DP 250 psi, Gpm 470, Rpm 50, Wob 22k, Rop 74 fph.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig Service.
17:00	11.00	04:00	2	DRILL ACTUAL	Steerable drlg 6807' - 7485' .Spp 2150 psi, DP 300 psi, Gpm 470, Rpm 50, Wob 22k, Rop 62 fph.
04:00	1.00	05:00	5	COND MUD & CIRC	C&C, build volume.
05:00	1.00	06:00	2	DRILL ACTUAL	Steerable drlg 7485' - 7500' .Spp 2150 psi, DP 120 psi, Gpm 460, Rpm 50, Wob 22k, Rop 15 fph.

Aurora Federal 5-23D-7-20 9/9/2015 06:00 - 9/10/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Steerable drlg 7500' - 7716' .Spp 2150 psi, DP 120 psi, Gpm 460, Rpm 50, Wob 22k, Rop 23 fph.
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service. Function pipe rams.
16:00	2.00	18:00	2	DRILL ACTUAL	Steerable drlg 7716' - 7768' .Spp 2150 psi, DP 120 psi, Gpm 460, Rpm 50, Wob 22k, Rop 26 fph. TD well @ 7768'(7705' tvd).
18:00	2.00	20:00	5	COND MUD & CIRC	Sweep hole. C&C mud.
20:00	5.00	01:00	6	TRIPS	ST to 5300'. Hole sticky
01:00	1.00	02:00	5	COND MUD & CIRC	Sweep hole, C&C mud.
02:00	4.00	06:00	6	TRIPS	Toh.

Aurora Federal 5-23D-7-20 9/10/2015 06:00 - 9/11/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	6	TRIPS	Toh.
09:00	1.00	10:00	20	DIRECTIONAL WORK	LD dir tools, mm, bit.
10:00	6.50	16:30	6	TRIPS	PU log-through bit, x/o, tih.
16:30	1.50	18:00	3	REAMING	Wash 7523' - 7768'.
18:00	2.50	20:30	5	COND MUD & CIRC	Sweep hole, C&C mud.
20:30	1.50	22:00	6	TRIPS	Toh to 5600'.
22:00	8.00	06:00	11	WIRELINE LOGS	RU Weatherford loggers, run quad combo 5600' - 7389' (bridged out @ 7389'). Log gamma to surface.

Aurora Federal 5-23D-7-20 9/11/2015 06:00 - 9/12/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	11	WIRELINE LOGS	Finish logging gamma to surface.
08:00	1.50	09:30	11	WIRELINE LOGS	RD loggers.
09:30	1.50	11:00	5	COND MUD & CIRC	Spot 150 bbl pill w/15 ppb Strata Vanguard, 15 ppb Strata flex medium across 3500' - 5500'.
11:00	4.00	15:00	6	TRIPS	Toh, LD bit and x.o.
15:00	0.50	15:30	21	OPEN	Remove wear bushing.
15:30	9.00	00:30	12	RUN CASING & CEMENT	RU CRT, run 175 jts 5 1/2", 17#, I-80, LTC csg, 3 MJs. PU jt # 176, tag @ 7768'.
00:30	2.00	02:30	5	COND MUD & CIRC	C&C mud f/cement. Pump 40 bbl pill w/20 ppb Strata Vanguard, 20 ppb Strata flex fine ahead of cement.
02:30	0.50	03:00	12	RUN CASING & CEMENT	LD jt # 176, PU LJ, land mandrel in wellhead.
03:00	3.00	06:00	12	RUN CASING & CEMENT	HSM. RU HES, pump cement as follows: Press test to 5000 psi, pump 30 bbl tuned spacer @ 10 ppg, 8.75 yld, 57.2 gps H2O, 8 bbl H2O spacer, 30 bbl Super flush @ 10 ppg, 8 bbl H2O spacer. Mix and pump 370 sx (154 bbls) Tuned lite lead cement @ 11 ppg, 2.34 yld, 10.11 gps H2O, tail in with 800 sx(206 bbls) Expandacem @ 13.5 ppg, 1.45 yld, 6.89 gps H2O. Wash up to pit, drop top plug, displace w/ 178 bbls Claweb/Aldacide H2O @ 8.33 ppg. Notified BLM, UDOGM & BBC regulatory of csg & cmt job 9-10-15 @ 09:15.

Aurora Federal 5-23D-7-20 9/12/2015 06:00 - 9/13/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.50	07:30	12	RUN CASING & CEMENT	Finish cementing. Max pressure 1200 psi, bump plug to 2000 psi. Bled back 1.5 bbls, floats held. RD HES. Lost circ 20 bbls into Superflush, no cement to surface.
07:30	1.00	08:30	21	OPEN	LD csg mandrel running tool, set packoff and test.
08:30	3.50	12:00	21	OPEN	NDBOPE, Clean pits. Release rig @ 12:00 noon.
12:00	18.00	06:00	1	RIGUP & TEARDOWN	MIRU 5 miles to AF 13-28D-7-20.

Aurora Federal 5-23D-7-20 9/14/2015 06:00 - 9/15/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	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.

Aurora Federal 5-23D-7-20 9/15/2015 06:00 - 9/16/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	0.25	07:15	SMTG	Safety Meeting	SAFTEY MEETING.
07:15	3.75	11:00	LOGG	Logging	MIRU EXTREME WIRELINE. HSM. RIH W/ GR/JB TO TAG FILL AT 7605' CORRELATED TD. DRILLING SHOWING FC @ 7659' WITH (54') OF FILL. RUN CBL LOG. GOOD CMT FROM TD-4000' FAIR/RATTY SPOTS CMT 4000'-1350' ETOC TOP OF CMT AT 1350'. MARKER JTS AT 5259'-5277' & 5849'-5871' & 6792'-6814'. RD EXTREME WIRELINE. CBL RUN WITH OUT PSI. LOCK & SECURE WELL. BATTERY UNDER CONSTRUCTION.
11:00	19.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL. CREW TRAVEL.

Aurora Federal 5-23D-7-20 9/25/2015 06:00 - 9/26/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL
07:00	0.25	07:15	SMTG	Safety Meeting	SAFETY MEETING
07:15	4.25	11:30	GOP	General Operations	HSM. SET & R/U FB PACKAGE. 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 WITH METHANOL, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
11:30	18.50	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL. CREW TRAVEL	

Aurora Federal 5-23D-7-20 9/28/2015 06:00 - 9/29/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	CREW TRAVEL. SET & TEST ANCHORS, GROUND & BOND TANKS, SET UP LEL TRAILER.	

Aurora Federal 5-23D-7-20 9/29/2015 06:00 - 9/30/2015 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-54519	Utah	Uintah	Aurora	COMPLETION	7,768.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	FINSH SETTING FRAC LINE. FINISH GROUNDING & BONDING TANKS. MET WITH LAND OWNER "DAVID YEAMEN" ON WATER TRANSFERING.	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445	
SUNDRY NOTICES AND REPORTS ON WELLS		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
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.		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
1. TYPE OF WELL Oil Well		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20	
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047545190000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		COUNTY: UINTAH	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/6/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
THIS WELL HAD FIRST PRODUCTION ON 10/6/2015			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 07, 2015			
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst	
SIGNATURE N/A		DATE 10/7/2015	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20	
9. API NUMBER: 43047545190000	
9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	
1. TYPE OF WELL Oil Well	
2. NAME OF OPERATOR: BILL BARRETT CORP	
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: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S	
COUNTY: UINTAH	
STATE: UTAH	

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input 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: 10/17/2015	<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 style="width: 100px;" type="text" value="SSD"/>

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

ATTACHED PLEASE FIND THE SITE SECURITY DIAGRAM FOR THIS LOCATION

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 October 26, 2015

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 10/19/2015	

Sundry Number: 67081 API Well Number: 43047545190000

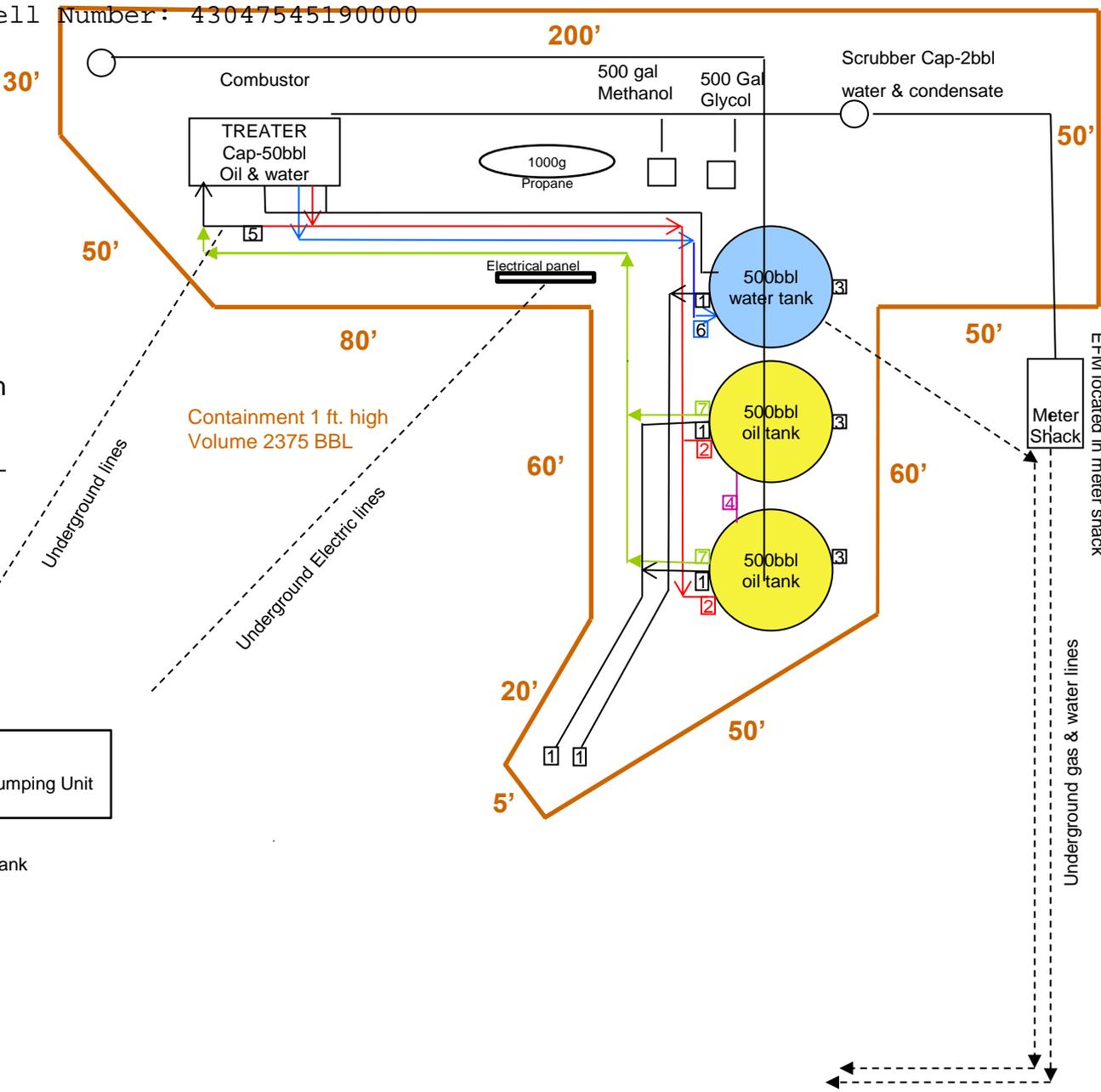
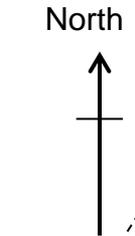
BILL BARRETT CORPORATION
FEE SURFACE
 Aurora Federal 5-23D-7-20
 SW ¼ NW ¼ Sec 23,T7S, R20E,
 Lease # UTU 78445
 API # 43-047-54519
 Uintah Co. Utah

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

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

Entrance →



Surface Drainage to South.
 Irrigated crop land to South & East.
 Gravel County road along West side.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 2562 FNL 0249 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWNW Section: 23 Township: 07.0S Range: 20.0E Meridian: S		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
		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"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/1/2015	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CHANGE WELL NAME	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
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	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached find the monthly drilling activity for this well in October of 2015.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 02, 2015
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Brady Riley	303 312-8115	Permit Analyst
SIGNATURE		DATE
N/A		11/2/2015

**Aurora Federal 5-23D-7-20 10/2/2015 06:00 - 10/3/2015 06:00**

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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	ROCK WATER FILLING FRAC LINE. CURRENTLY GETTING 38 BPM OUT OF SUPPLIED WATER SOURCE FROM LAND OWNER. FRAC LINE SHOULD BE FULL BY 1800 THIS EVENING.

Aurora Federal 5-23D-7-20 10/3/2015 06:00 - 10/4/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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	MIRU WILLIES 5 SUPER HEATERS. HEAT 40) 500S TO 100* RDMO

Aurora Federal 5-23D-7-20 10/4/2015 06:00 - 10/5/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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
07:00	6.00	13:00	SRIG	Rig Up/Down	MIRU HES FRAC FLEET
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL
06:00		06:00			

Aurora Federal 5-23D-7-20 10/5/2015 06:00 - 10/6/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.56	06:33	PFRT	Perforating	W/L Stage #1 Perf as Per design 1' Guns/ 3 Shots Per foot. Phasing 120 Deg.
06:33	0.50	07:03	SMTG	Safety Meeting	Held Location Safety Meeting
07:03	1.06	08:07	GOP	General Operations	Stand By For Frac
08:07	2.13	10:15	FRAC	Frac. Job	Frac stage # 1 XL Fluid System- Hybor G 20# Pressure Test- 7,200 psi Avg Rate- 64 bpm Avg pressure- 2,287 psi 100 Mesh - 6,880 # 0.75 ppg 20/40 white - 154,581 # .5 - 4 ppg Total Slickwater- 3,807 bbls Total XL fluid- 632 bbls Linear Gel- 915 bbls Acid- 12 bbls Total Fluid Pumped- 5,366 bbls ISIP- 1,199 psi FG- 0.610 psi/ft Stage Score- 10
10:15	1.00	11:15	PFRT	Perforating	W/L Stage #2 Set Composite Frac Plug @ 7,377'. Perf as Per design 1' Guns/ 3 Shots Per foot. Phasing 120 Deg. Open well @ 885 psi. Set Plug @ 876 psi. Last shot fired @ 854 psi.
11:15	0.31	11:33	GOP	General Operations	Stand By For Frac



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
11:33	1.79	13:21	FRAC	Frac. Job	Frac stage # 2 XL Fluid System- Hybor G 20# Pressure Test- 7,200 psi Avg Rate- 70 bpm Avg pressure- 2,416 psi 100 Mesh - 6,637 # 0.75 ppg 20/40 white - 147,349 # .5 - 4 ppg Total Slickwater- 3,697 bbls Total XL fluid- 593 bbls Linear Gel- 777 bbls Acid- 12 bbls Total Fluid Pumped- 5,079 bbls ISIP- 1,369 psi FG- 0.640 psi/ft Stage Score- 10
13:21	1.13	14:28	PFRT	Perforating	W/L Stage #3 Set Composite Frac Plug @ 7,160'. Perf as Per design 1' Guns/ 3 Shots Per foot. Phasing 120 Deg. Open well @ 1,200 psi. Set Plug @ 1,050 psi. Last shot fired @ 1,135 psi.
14:28	0.12	14:36	GOP	General Operations	Stand By For Frac
14:36	1.82	16:25	FRAC	Frac. Job	Frac stage # 3 XL Fluid System- Hybor G 20# Pressure Test- 7,200 psi Avg Rate- 64 bpm Avg pressure- 3,123 psi 100 Mesh - 6,490 # 0.75 ppg 20/40 white - 151,591 # .5 - 4 ppg Total Slickwater- 3,032 bbls Total XL fluid- 583 bbls Linear Gel- 1,430 bbls Acid- 12 bbls Total Fluid Pumped- 5,057 bbls ISIP- 2,028 psi FG- 0.740 psi/ft Stage Score- 10 Had to swap to Linear Gel 595 bbls early due to an increase in treating pressure.
16:25	1.00	17:25	PFRT	Perforating	W/L Stage #4 Set Composite Frac Plug @ 6,826'. Perf as Per design 1' Guns/ 3 Shots Per foot. Phasing 120 Deg. Open well @ 1,650 psi. Set Plug @ 1,350 psi. Last shot fired @ 950 psi.
17:25	0.25	17:40	GOP	General Operations	Stand By For Frac



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
17:40	2.00	19:40	FRAC	Frac. Job	FRAC STAGE- # 4. TEST LINES TO 7200 PSI. OPEN WELL- 905 PSI. AVG RATE- 69.9, MAX RATE- 70.2. AVG PSI- 2766, MAX PSI- 3710. TOTAL HYBOR G 20#- 886 BBLS. TOTAL SLICK WATER- 3535 BBLS. LINER GEL 20#- 886 BBLS. TOTAL ACID- 12 BBLS TOTAL FLUID- 5039 BBLS. 100 MESH- 6755 LBS. PREMIUM WHITE 20/40- 144502. FRAC GRADIENT- .70, ISIP- 1803.
19:40	1.50	21:10	PFRT	Perforating	R/U EXTREME W/L. PERF STAGE # 5. OPEN WELL- 1750 PSI. SET 10K CFP @ 6565'. PERF CSG F/ 6551' TO 6348'. 3 SPF, 120 DEG PHASING, 45 HOLES. FINAL WELL PSI- 900. R/D W/L. HAD A MISS RUN.
21:10	2.00	23:10	FRAC	Frac. Job	FRAC STAGE- # 5. TEST LINES TO 7200 PSI. OPEN WELL- 1169 PSI. AVG RATE- 70.6, MAX RATE- 70.9. AVG PSI- 3563, MAX PSI- 4119. TOTAL HYBOR G 20#- 601 BBLS. TOTAL SLICK WATER- 3615 BBLS. LINER GEL 20#- 801 BBLS. TOTAL ACID- 12 BBLS TOTAL FLUID- 5029 BBLS. 100 MESH- 7376 LBS. PREMIUM WHITE 20/40- 151983. FRAC GRADIENT- .86, ISIP- 2737.
23:10	1.00	00:10	PFRT	Perforating	R/U EXTREME W/L. PERF STAGE # 6. OPEN WELL- 2250 PSI. SET 10K CFP @ 6320'. PERF CSG F/ 6300' TO 6105'. 3 SPF, 120 DEG PHASING, 45 HOLES. FINAL WELL PSI- 1600. R/D W/L.
00:10	1.00	01:10	FRAC	Frac. Job	FRAC STAGE- # 6. TEST LINES TO 7200 PSI. OPEN WELL- 1228 PSI. AVG RATE- 70.4, MAX RATE- 70.6. AVG PSI- 3431, MAX PSI- 4828. TOTAL HYBOR G 20#- 609 BBLS. TOTAL SLICK WATER- 3175 BBLS. LINER GEL 20#- 1218 BBLS. TOTAL ACID- 12 BBLS TOTAL FLUID- 5015 BBLS. 100 MESH- 6890 LBS. PREMIUM WHITE 20/40- 149611. FRAC GRADIENT- .71, ISIP- 1724.
01:10	1.00	02:10	PFRT	Perforating	R/U EXTREME W/L. PERF STAGE # 7. OPEN WELL- 1500 PSI. SET 10K CFP @ 6099'. PERF CSG F/ 6079' TO 5823'. 3 SPF, 120 DEG PHASING, 45 HOLES. FINAL WELL PSI- 1500. R/D W/L.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
02:10	2.00	04:10	FRAC	Frac. Job	FRAC STAGE- # 7. TEST LINES TO 7200 PSI. OPEN WELL- 1428 PSI. AVG RATE- 70.2, MAX RATE- 71. AVG PSI- 2668, MAX PSI- 5897. TOTAL HYBOR G 20#- 0 BBLS. TOTAL SLICK WATER- 6994 BBLS. LINER GEL 20#- 0 BBLS. TOTAL ACID- 12 BBLS TOTAL FLUID- 7006 BBLS. 100 MESH- 7901 LBS. PREMIUM WHITE 20/40- 135248. FRAC GRADIENT- .65, ISIP- 1286.
04:10	0.83	05:00	CTUW	W/L Operation	R/U EXTREME W/L. OPEN WELL- 1400 PSI. SET 10K CBP @ 5723'. R/D W/L. BLEED WELL OFF. SWIFN.
05:00	1.00	06:00	SRIG	Rig Up/Down	R/D & MOVE HALLIBURTON & W/L OFF LOCATION.

Aurora Federal 5-23D-7-20 10/6/2015 06:00 - 10/7/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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	GOP	General Operations	TRAVEL
07:00	5.00	12:00	GOP	General Operations	WAIT ON FRAC CREW TO MOVE TO GET ON LOCATION
12:00	2.00	14:00	GOP	General Operations	MOVE IN R/U N/D FRAC TREN/U BOP R/U PUMP LINE UNLOAD TUBING
14:00	4.00	18:00	RUTB	Run Tubing	P/U BIT DRAIN SUBS XN NIPPLE RIH P/U 186 JTS PRESSURE TEST STACK TO 2500 PSI
18:00	3.00	21:00	CTU	Clean Out	DRILL OUT KILL PLUG @ 6723' 1000 PSI RIH TAG SAND 6049' 50' SAND DRILL OUT PLUG 2 950 PSI FOWBCAK 2 BPM RIH TAG SAND @ 6170' CLEAN OUT 6080 CIRC FOR 20 MIN TURN OVER TO FLOW BACK
21:00	9.00	06:00	FBCK	Flowback Well	FLOW WELL BACK @ 60-70 BBLS AND HOUR

Aurora Federal 5-23D-7-20 10/7/2015 06:00 - 10/8/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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	GOP	General Operations	TRAVEL
07:00	6.00	13:00	CTU	Clean Out	WELL FLOW 800 PSI DRILL PLUG @ 6230 900 PSI SINGLE IN HOLR DRILL PLUG @ 6565 900 PSI 75' SAND ON PLUG DRILL PLUG @ 6826 900 PSI 135' SAND ON PLUG DRILL PLUG @ 7160 900 PSI 125' SAND ON PLUG DRILL @ 7377 850 PSI 90' SAND ON PLUG SINGLE IN HOLE TAG SAND @ 7489 TAG SAND CLEAN OUT TO FLOAT COLLAR @ 7659 DRILL OUT TO 7710' CIRC FOR 30 MIN

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:00	4.00	17:00	PULT	Pull Tubing	R/D SWIVEL POOH L/D 36 JTS LAND TUBINN/D BOP STACK N/U WELL HEAD HOOK UP WELL HEAD DROP BAR 775 PSI ON TUBING RACK OUT EQ MOVE RIG OFF LOCATION TUBING IN HOLE 221 JTS XN NIPPLE 1 DRAIN SUB D-CHECK 4 3/4 ROCK BIT TURN WELL TO FLOW BACK
17:00	13.00	06:00	FBCK	Flowback Well	FLOW WELL

Aurora Federal 5-23D-7-20 10/14/2015 06:00 - 10/15/2015 06:00

API 43-047-54519	State/Province Utah	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,768.0	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	GOP	General Operations	TRAVEL
07:00	2.00	09:00	GOP	General Operations	MOVE IN R/U KILL WELL
09:00	2.00	11:00	PULT	Pull Tubing	POOH W/ TUBING
11:00	4.00	15:00	RUTB	Run Tubing	RIH W/ TUBING WELL START FLOWING KILL WELL FINISH RUNNUING IN HOLE W/ TUBING SET ANCHOR W/ 18K TENSION N/D BOP N/U WELL HEAD FLUSH TUBING W/ 70 BBLs TUBING AS FOLLOWS 188 JTS ANCHOR 8 RD 13 JTS 2 1/4 TUBING BARREL 3 JTS
15:00	3.00	18:00	RURP	Run Rods & Pump	RIH W/ RODS AS FOLLOWS 90 1" MMS 4 PER 84 7/8 MMS 4 PER 45 3/4 MMS 4 PER 28 1" MMS 4 PER S.C PLUNGER
18:00	12.00	06:00	GOP	General Operations	DOWN TIL MORNING

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU78445
1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME
2. NAME OF OPERATOR: Bill Barrett Corporation		8. WELL NAME and NUMBER: AURORA FEDERAL 5-23D-7-20
3. ADDRESS OF OPERATOR: 1099 18th St Ste 2300 CITY Denver STATE CO ZIP 80202		9. API NUMBER: 4304754519
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2562 FNL 0249 FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: 1964 FNL 0637 FWL AT TOTAL DEPTH: 1989 FNL 0647 FWL		10 FIELD AND POOL, OR WILDCAT BRENNAN BOTTOM
14. DATE SPURRED: 7/24/2015		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNW 23 7S 20E S
15. DATE T.D. REACHED: 9/9/2015		12. COUNTY Uintah
16. DATE COMPLETED: 10/6/2015 ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>		13. STATE UTAH
17. ELEVATIONS (DF, RKB, RT, GL): 4822 GL		
18. TOTAL DEPTH: MD 7,768 TVD 7,705	19. PLUG BACK T.D.: MD 7,661 TVD 7,555	20. IF MULTIPLE COMPLETIONS, HOW MANY? *
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL, MUD, QUICKLOOK		21. DEPTH BRIDGE MD PLUG SET: TVD
23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis)		
WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report)		
DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input checked="" type="checkbox"/> (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
26	16 Conq	65#	0	118	118			0	
12 1/4	8 5/8 J-55	24#	0	1,240	1,232	Lead 250	106	0	
						Tail 365	75		
7 7/8	5 1/2 L80	17#	0	7,768	7,751	Tuned 370	154	1342	
						expand 800	206		

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 7/8	6,312							

26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Green River	5,823	7,589			5,823 7,589	.38	315	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
5823-7589	Green River: See attached Stages 1-7

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

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 10/6/2015		TEST DATE: 10/21/2015		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 130	GAS - MCF: 72	WATER - BBL: 926	PROD. METHOD: Flowing
CHOKE SIZE: 64/64	TBG. PRESS. 400	CSG. PRESS. 175	API GRAVITY 31.92	BTU - GAS 63	GAS/OIL RATIO 554	24 HR PRODUCTION RATES: →	OIL - BBL: 130	GAS - MCF: 72	WATER - BBL: 926	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	3,748
				Mahogany	4,913
				TGR3	5,985
				Douglas Creek	6,122
				Black Shale Facies	6,836
				Castle Peak	6,912
				Uteland Butte	7,159
				Wasatch	7,769

TOC calculated by CBL. Conductor cemented with grout. First gas sales 10/7/2015 and first oil sales 10/19/2015. Completion data attached.

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

NAME (PLEASE PRINT) BRADY RILEY TITLE Permit Analyst
 SIGNATURE Electronic Signature DATE 10/22/2015

This report must be submitted within 30 days of

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

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

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

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

Aurora Federal 5-23D-7-20 Report Continued*

ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>bbls total Fluid</u>	<u>lbs 100 Common Mesh</u>	<u>lbs 20/40 Prem. White</u>	<u>gal 15% HCl Acid</u>
1	5,388	6,880	154,581	500
2	5,096	6,637	147,349	500
3	5,069	6,490	151,591	500
4	5,057	6,755	144,502	500
5	5,048	7,376	151,983	500
6	5,028	6,890	149,611	500
7	7,016	7,901	135,248	500

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



Bill Barrett Corporation

Fort Duchesne

SECTON 23 T7S, R20E

Aurora Federal 5-23D-7-20

Wellbore #1

Design: Actual

End of Well Report

15 September, 2015





Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 5-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Site:	SECTON 23 T7S, R20E	MD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Well:	Aurora Federal 5-23D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Project	Fort Duchesne		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Southern Zone		

Site	SECTON 23 T7S, R20E				
Site Position:	Northing:	11,130,910.12 usft	Latitude:	40° 11' 22.370 N	
From: Lat/Long	Easting:	2,161,785.85 usft	Longitude:	109° 38' 7.160 W	
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	1.14 °

Well	Aurora Federal 5-23D-7-20, SHL: 40° 11' 47.650 -109° 38' 41.370					
Well Position	+N/-S	0.0 usft	Northing:	11,133,417.09 usft	Latitude:	40° 11' 47.650 N
	+E/-W	0.0 usft	Easting:	2,159,078.40 usft	Longitude:	109° 38' 41.370 W
Position Uncertainty	0.0 usft		Wellhead Elevation:	4,838.0 usft	Ground Level:	4,823.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	8/24/2015	10.62	65.89	52,000

Design	Actual				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	34.82	

Survey Program	Date	9/15/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,216.0	7,768.0	Survey #1 (Wellbore #1)	MWD	MWD v3:standard declination



Payzone Directional

End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 5-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Site:	SECTION 23 T7S, R20E	MD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Well:	Aurora Federal 5-23D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	0.00
1,216.0	0.22	10.61	1,216.0	2.1	2.3	0.4	0.02	0.02	0.00	0.00
1,300.0	0.31	184.51	1,300.0	2.1	2.2	0.4	0.63	0.11	207.02	207.02
1,384.0	1.02	89.50	1,384.0	2.3	2.0	1.2	1.30	0.85	-113.11	-113.11
1,469.0	1.81	59.93	1,469.0	4.0	2.7	3.1	1.24	0.93	-34.79	-34.79
1,553.0	2.92	39.84	1,552.9	7.3	5.0	5.6	1.63	1.32	-23.92	-23.92
1,638.0	4.60	34.11	1,637.7	12.9	9.5	8.9	2.02	1.98	-6.74	-6.74
1,722.0	4.60	31.82	1,721.4	19.6	15.1	12.6	0.22	0.00	-2.73	-2.73
1,806.0	5.30	34.33	1,805.1	26.8	21.2	16.5	0.87	0.83	2.99	2.99
1,890.0	6.32	34.42	1,888.7	35.3	28.2	21.3	1.21	1.21	0.11	0.11
1,975.0	6.81	30.71	1,973.1	45.1	36.4	26.6	0.76	0.58	-4.36	-4.36
2,059.0	8.09	32.30	2,056.4	55.9	45.7	32.3	1.54	1.52	1.89	1.89
2,150.0	9.59	32.74	2,146.3	69.9	57.5	39.8	1.65	1.65	0.48	0.48
2,242.0	11.18	34.72	2,236.8	86.5	71.3	49.0	1.77	1.73	2.15	2.15
2,333.0	11.71	34.33	2,326.0	104.5	86.1	59.2	0.59	0.58	-0.43	-0.43
2,424.0	11.40	31.02	2,415.2	122.7	101.5	69.1	0.80	-0.34	-3.64	-3.64
2,516.0	10.78	32.78	2,505.5	140.4	116.5	78.4	0.77	-0.67	1.91	1.91
2,607.0	11.40	31.20	2,594.8	157.9	131.3	87.7	0.76	0.68	-1.74	-1.74
2,698.0	11.18	31.73	2,684.0	175.7	146.5	97.0	0.27	-0.24	0.58	0.58
2,790.0	10.52	33.31	2,774.4	193.0	161.1	106.3	0.79	-0.72	1.72	1.72
2,881.0	11.09	32.83	2,863.7	210.0	175.4	115.6	0.63	0.63	-0.53	-0.53
2,972.0	10.78	32.12	2,953.1	227.3	190.0	124.9	0.37	-0.34	-0.78	-0.78
3,064.0	11.49	33.62	3,043.4	245.0	204.9	134.5	0.83	0.77	1.63	1.63
3,155.0	11.40	33.80	3,132.5	263.1	219.9	144.5	0.11	-0.10	0.20	0.20
3,246.0	11.00	34.02	3,221.8	280.8	234.6	154.4	0.44	-0.44	0.24	0.24
3,337.0	10.52	34.24	3,311.2	297.7	248.7	163.9	0.53	-0.53	0.24	0.24
3,429.0	11.09	33.31	3,401.6	315.0	263.0	173.5	0.65	0.62	-1.01	-1.01



Payzone Directional

End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 5-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Site:	SECTION 23 T7S, R20E	MD Reference:	Aurora Federal 5-23D-7-20 @ 4838.0usft (Plan KB)
Well:	Aurora Federal 5-23D-7-20	North Reference:	True
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
3,520.0	11.62	30.71	3,490.8	332.9	278.2	183.0	0.81	0.58	-2.86	
3,612.0	11.18	30.63	3,581.0	351.0	293.8	192.3	0.48	-0.48	-0.09	
3,703.0	10.69	30.41	3,670.3	368.2	308.7	201.0	0.54	-0.54	-0.24	
3,794.0	11.09	33.54	3,759.7	385.4	323.3	210.2	0.78	0.44	3.44	
3,885.0	11.31	33.40	3,849.0	403.1	338.0	219.9	0.24	0.24	-0.15	
3,977.0	10.61	32.12	3,939.3	420.5	352.7	229.4	0.81	-0.76	-1.39	
4,068.0	9.90	30.80	4,028.8	436.7	366.5	237.8	0.82	-0.78	-1.45	
4,159.0	10.30	32.52	4,118.4	452.6	380.1	246.2	0.55	0.44	1.89	
4,250.0	11.18	31.64	4,207.8	469.6	394.5	255.2	0.98	0.97	-0.97	
4,342.0	11.18	34.02	4,298.1	487.4	409.5	264.9	0.50	0.00	2.59	
4,433.0	10.30	37.24	4,387.5	504.4	423.3	274.7	1.17	-0.97	3.54	
4,521.0	11.09	32.52	4,474.0	520.7	436.7	284.1	1.34	0.90	-5.36	
4,612.0	10.38	31.90	4,563.4	537.6	451.0	293.1	0.79	-0.78	-0.68	
4,703.0	10.78	31.64	4,652.8	554.3	465.2	301.9	0.44	0.44	-0.29	
4,795.0	11.09	32.43	4,743.1	571.7	480.0	311.1	0.37	0.34	0.86	
4,886.0	10.78	30.14	4,832.5	589.0	494.8	320.1	0.59	-0.34	-2.52	
4,977.0	9.59	30.32	4,922.1	605.0	508.7	328.2	1.31	-1.31	0.20	
5,069.0	9.50	33.14	5,012.8	620.2	521.6	336.2	0.52	-0.10	3.07	
5,160.0	9.19	33.93	5,102.6	635.0	533.9	344.4	0.37	-0.34	0.87	
5,251.0	9.59	36.93	5,192.4	649.8	546.0	353.0	0.69	0.44	3.30	
5,335.0	8.00	38.03	5,275.4	662.7	556.2	360.8	1.90	-1.89	1.31	
5,427.0	7.91	36.53	5,366.5	675.4	566.4	368.5	0.25	-0.10	-1.63	
5,518.0	6.98	35.03	5,456.7	687.2	575.9	375.4	1.04	-1.02	-1.65	
5,609.0	6.32	30.71	5,547.1	697.7	584.8	381.2	0.91	-0.73	-4.75	
5,701.0	4.42	30.01	5,638.7	706.3	592.2	385.5	2.07	-2.07	-0.76	
5,792.0	3.31	25.43	5,729.5	712.4	597.6	388.4	1.27	-1.22	-5.03	
5,883.0	2.21	36.93	5,820.4	716.7	601.4	390.6	1.35	-1.21	12.64	



Payzone Directional
End of Well Report



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Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 5000.1 Single User Db

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	
5,975.0	1.10	51.51	5,912.3	719.3	603.3	392.3	1.28	-1.21	15.85	
6,066.0	1.02	74.21	6,003.3	720.8	604.1	393.8	0.47	-0.09	24.95	
6,157.0	0.80	75.93	6,094.3	721.9	604.5	395.2	0.24	-0.24	1.89	
6,249.0	0.62	123.74	6,186.3	722.4	604.4	396.2	0.65	-0.20	51.97	
6,340.0	0.71	155.68	6,277.3	722.1	603.6	396.9	0.41	0.10	35.10	
6,431.0	0.80	165.83	6,368.3	721.4	602.4	397.3	0.18	0.10	11.15	
6,523.0	1.02	177.33	6,460.3	720.3	601.0	397.5	0.31	0.24	12.50	
6,614.0	1.10	163.31	6,551.3	719.1	599.4	397.7	0.30	0.09	-15.41	
6,705.0	1.59	182.31	6,642.2	717.5	597.3	397.9	0.72	0.54	20.88	
6,796.0	1.59	173.01	6,733.2	715.5	594.7	398.0	0.28	0.00	-10.22	
6,888.0	1.50	167.41	6,825.2	713.8	592.3	398.5	0.19	-0.10	-6.09	
6,979.0	1.19	169.84	6,916.1	712.3	590.2	398.9	0.35	-0.34	2.67	
7,070.0	1.19	162.61	7,007.1	711.0	588.4	399.3	0.16	0.00	-7.95	
7,161.0	1.50	159.44	7,098.1	709.8	586.4	400.0	0.35	0.34	-3.48	
7,253.0	1.41	165.21	7,190.1	708.4	584.1	400.7	0.19	-0.10	6.27	
7,344.0	1.19	190.33	7,281.1	706.8	582.1	400.9	0.66	-0.24	27.60	
7,435.0	1.02	190.41	7,372.0	705.2	580.4	400.6	0.19	-0.19	0.09	
7,527.0	1.41	194.03	7,464.0	703.4	578.5	400.1	0.43	0.42	3.93	
7,618.0	1.50	203.81	7,555.0	701.2	576.3	399.4	0.29	0.10	10.75	
7,709.0	1.41	191.52	7,646.0	699.0	574.1	398.7	0.36	-0.10	-13.51	
7,768.0	1.41	191.52	7,704.9	697.6	572.7	398.4	0.00	0.00	0.00	

Checked By: _____ Approved By: _____ Date: _____

Sundry Number: 67194 API Well Number: 43047545190000

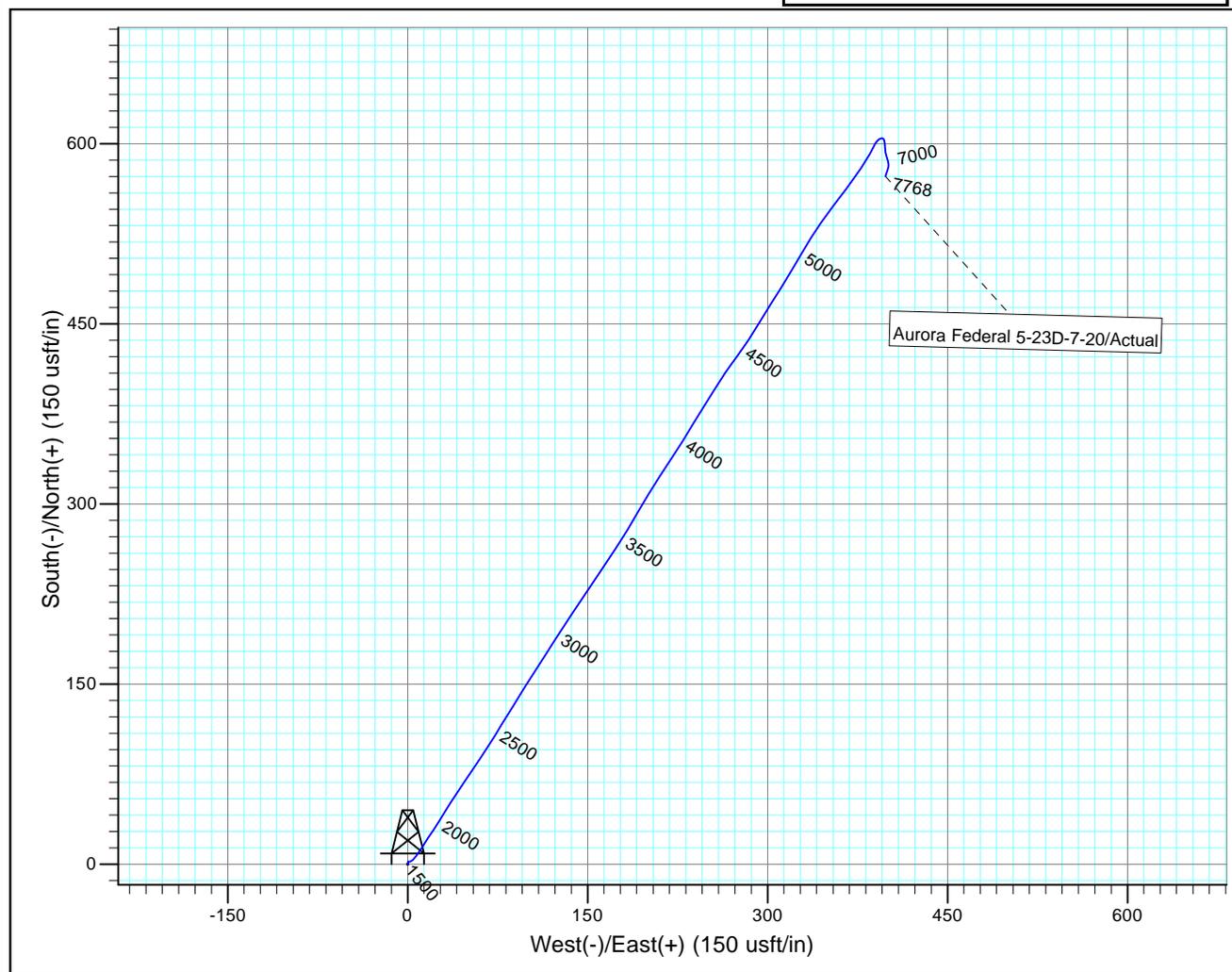
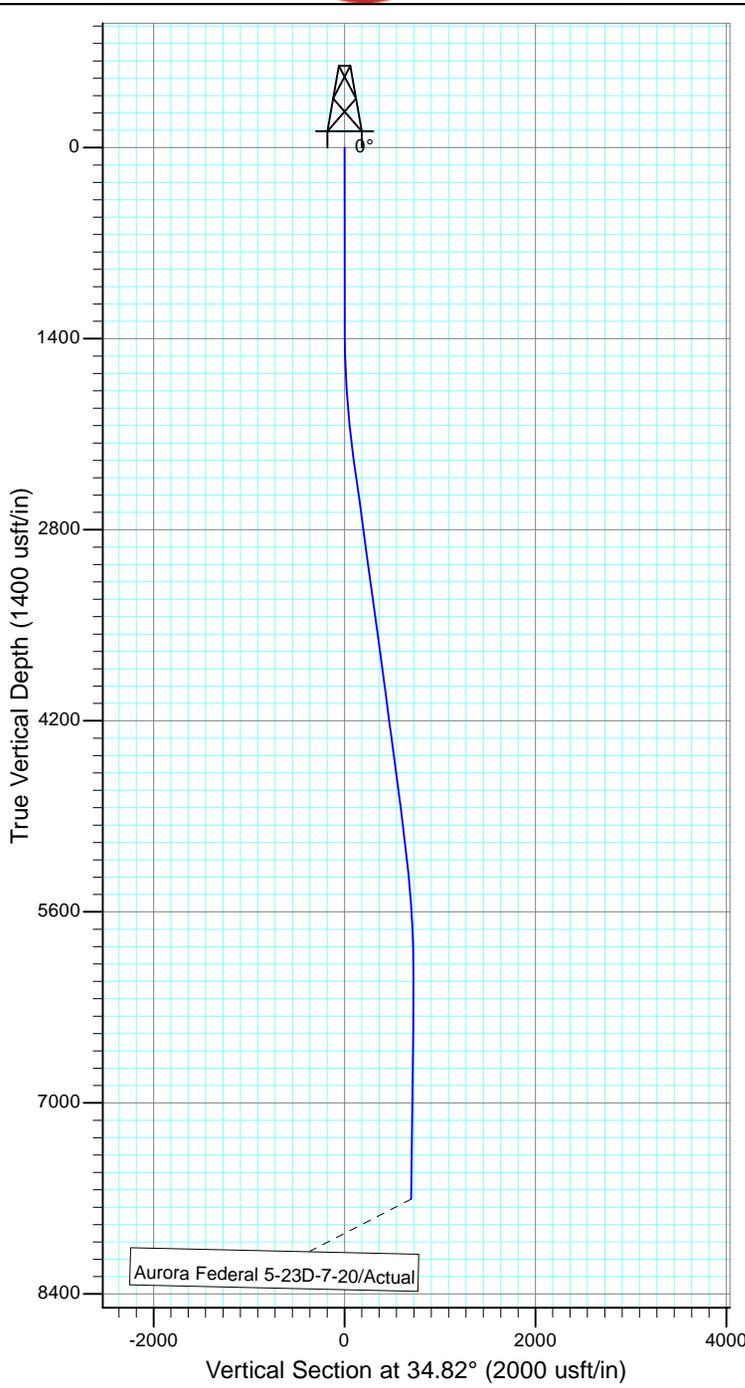


Project: Fort Duchesne
Site: SECTON 23 T7S, R20E
Well: Aurora Federal 5-23D-7-20
Wellbore: Wellbore #1
Design: Actual



Azimuths to True North
Magnetic North: 10.62°

Magnetic Field
Strength: 52000.3snT
Dip Angle: 65.89°
Date: 8/24/2015
Model: IGRF2010



Design: Actual (Aurora Federal 5-23D-7-20/Wellbore #1)

Created By: *Matthew Linton*

Date: 11:25, September 15 2015

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