

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 15-23D-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 Coalbed Methane Well: NO						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) UTU080689			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') 801-707-5120					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 8241 N. TRAILS DR, 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 checked="" type="checkbox"/> (Submit Commingling Application) NO <input 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		275 FSL 2515 FEL		SWSE	23	7.0 S		20.0 E	S		
Top of Uppermost Producing Zone		696 FSL 2021 FEL		SWSE	23	7.0 S		20.0 E	S		
At Total Depth		696 FSL 2021 FEL		SWSE	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 40					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2941			26. PROPOSED DEPTH MD: 7585 TVD: 7500					
27. ELEVATION - GROUND LEVEL 4792			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	9.625	0 - 1500	36.0	J-55 ST&C	9.4	Halliburton Light , Type Unknown		190	3.16	11.0
							Halliburton Premium , Type Unknown		210	1.36	14.8
PROD	7.875	5.5	0 - 7585	17.0	P-110 LT&C	9.5	Unknown		590	2.31	11.0
							Unknown		270	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 06/19/2013			EMAIL briley@billbarrettcorp.com					
API NUMBER ASSIGNED 43047538830000			APPROVAL			 Permit Manager					

BILL BARRETT CORPORATION
DRILLING PLAN

Aurora Federal 15-23D-7-20

SWSE, 275' FSL and 2515' FEL, Section 23, T7S-R20E, SLB & M (surface hole)

SWSE, 696' FSL and 2021' FEL, 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 – MD</u>	<u>Depth – TVD</u>
Green River	3,613'	3,546'
Mahogany	4,758'	4,673'
Lower Green River*	5,765'	5,680'
Douglas Creek	5,945'	5,860'
Black Shale	6,681'	6,596'
Castle Peak	6,862'	6,777'
Uteland Butte	7,076'	6,991'
Wasatch*	7,536'	7,451'
TD	7,585'	7,500'

*PROSPECTIVE PAY

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

Base of Useable Water = 316'

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1500'	No pressure control required (may pre-set 9-5/8" with smaller rig)*
1500' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

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

Bill Barrett Corporation
 Drilling Program
 Aurora Federal 15-23D-7-20
 Uintah County, Utah

5. Cementing Program

16" Conductor Casing	Grout
9 5/8" Surface Casing	Lead: 190 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 75% excess. TOC @ Surface Tail: 210 sx Halliburton Premium Plus cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx), calculated hole volume with 75% excess. TOC @ 1,000'
5 1/2" Production Casing	Lead: 590 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 1,000' Tail: 270sx 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 @ 6181'

6. Mud Program

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

7. Testing, Logging and Core Programs

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

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3705 psi* and maximum anticipated surface pressure equals approximately 2055 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 15-23D-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: DEC 2013
Spud: DEC 2013
Duration: 15 days drilling time
6 days completion time

12. Appendix A

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

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



Bill Barrett Corporation

AURORA CEMENT VOLUMES

Well Name: Aurora Federal 15-23D-7-20

Surface Hole Data:

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

Calculated Data:

Lead Volume:	548.1	ft ³
Lead Fill:	1,000'	
Tail Volume:	274.0	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:	190
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Tail Yield:	1.36	ft ³ /sk
% Excess:	75%	
Top of Tail:	1,000'	

# SK's Tail:	210
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Production Hole Data:

Total Depth:	7,585'
Top of Cement:	1,000'
Top of Tail:	6,181'
OD of Hole:	7.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1346.4	ft ³
Lead Fill:	5,181'	
Tail Volume:	364.9	ft ³
Tail Fill:	1,404'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	590
# SK's Tail:	270

Aurora Federal 15-23D-7-20 Proposed Cementing Program
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<u>Job Recommendation</u>	<u>Surface Casing</u>
Lead Cement - (1000' - 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: 1,000'
	Volume: 97.61 bbl
	Proposed Sacks: 190 sks
Tail Cement - (TD - 1000')	
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: 1,000'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	Proposed Sacks: 210 sks

<u>Job Recommendation</u>	<u>Production Casing</u>
Lead Cement - (6181' - 1000')	
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: 1,000'
	Calculated Fill: 5,181'
	Volume: 239.79 bbl
	Proposed Sacks: 590 sks
Tail Cement - (7585' - 6181')	
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: 6,181'
	Calculated Fill: 1,404'
	Volume: 64.99 bbl
	Proposed Sacks: 270 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.

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

BILL BARRETT CORPORATION

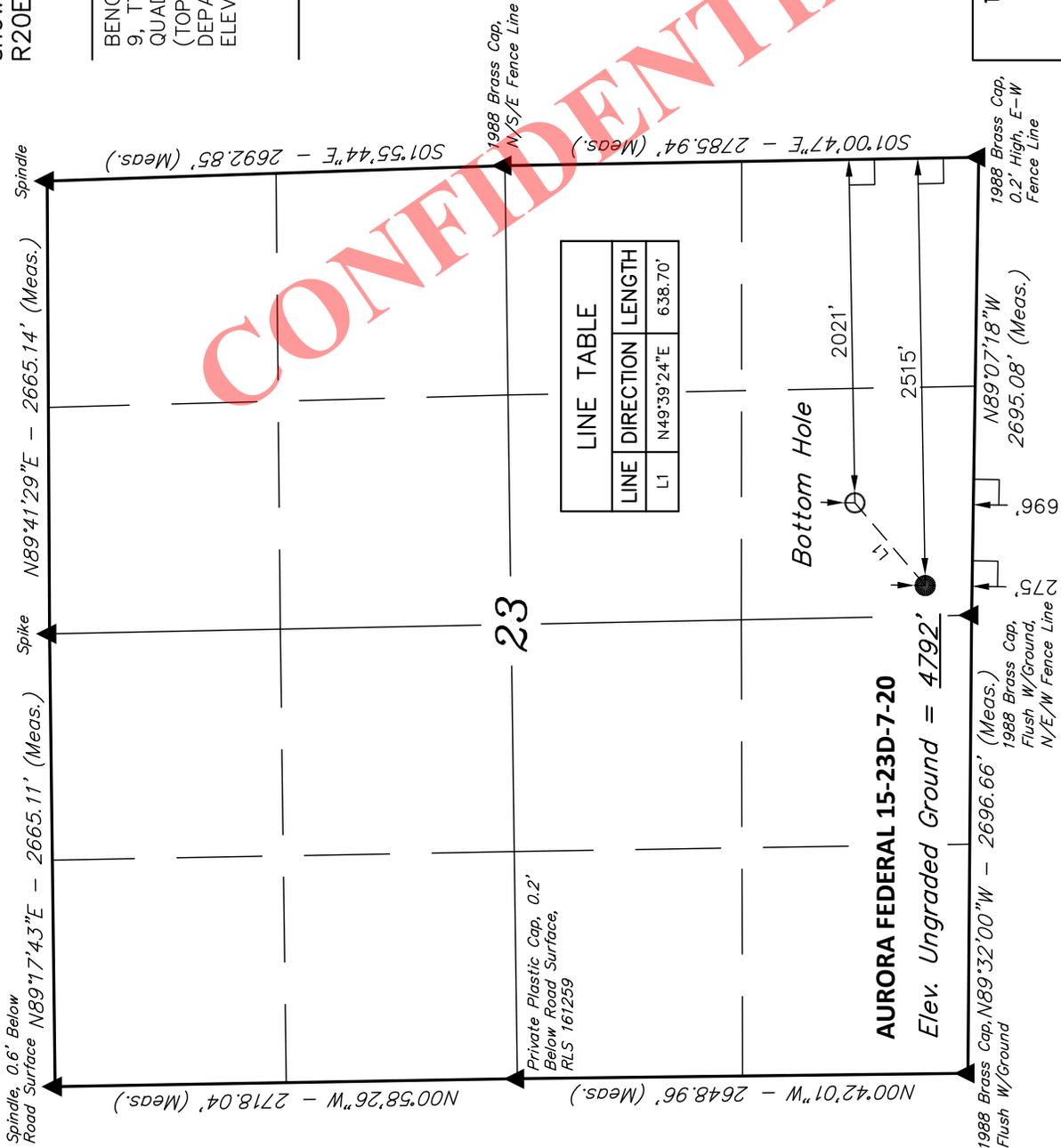
Well location **AURORA FEDERAL 15-23D-7-20** located as shown in the SW 1/4 SE 1/4 of Section 23, T7S, R20E, S.L.B.&M., Uintah County, Utah.

BASIS OF ELEVATION

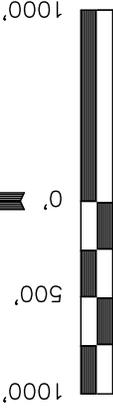
BENCH MARK (38EAM) LOCATED IN THE SW 1/4 OF SECTION 9, T7S, R20E, S.L.B.&M. TAKEN FROM THE PELICAN LAKE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

BASIS OF BEARINGS

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



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S C A L E
C E R T I F I C A T E

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

ROBERT KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH DATE 03-30-12

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

SCALE	1" = 1000'	DATE SURVEYED:	03-14-12	DATE DRAWN:	03-16-12
PARTY	C.R. S.R. J.J.	REFERENCES	G.L.O. PLAT		
WEATHER	WARM	FILE	BILL BARRETT CORPORATION		

LEGEND:

- ◻ = 90° SYMBOL
 - = PROPOSED WELL HEAD.
 - ▲ = SECTION CORNERS LOCATED
- | NAD 83 (TARGET BOTTOM HOLE) | NAD 83 (SURFACE LOCATION) |
|--|--|
| LATITUDE = 40°11'26.45" (40.190681) | LATITUDE = 40°11'22.37" (40.189547) |
| LONGITUDE = 109°38'00.89" (109.633581) | LONGITUDE = 109°38'07.16" (109.635322) |
| NAD 27 (TARGET BOTTOM HOLE) | NAD 27 (SURFACE LOCATION) |
| LATITUDE = 40°11'26.58" (40.190717) | LATITUDE = 40°11'22.50" (40.189583) |
| LONGITUDE = 109°37'58.39" (109.632886) | LONGITUDE = 109°38'04.66" (109.634628) |

BILL BARRETT CORPORATION
AURORA FEDERAL #15-23D-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: WESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHERLY



- Since 1964 -

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

LOCATION PHOTOS	03 MONTH	21 DAY	12 YEAR	PHOTO
TAKEN BY: C.R.	DRAWN BY: C.L.		REV: 06-17-13 A.T.	

BILL BARRETT CORPORATION

LOCATION LAYOUT FOR

AURORA FEDERAL #15-23D-7-20

SECTION 23, T7S, R20E, S.L.B.&M.

275' FSL 2515' FEL

FIGURE #1

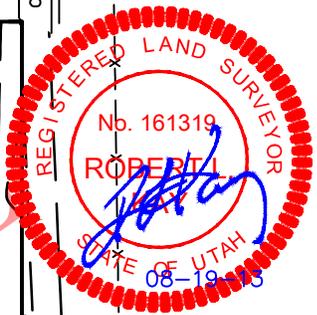
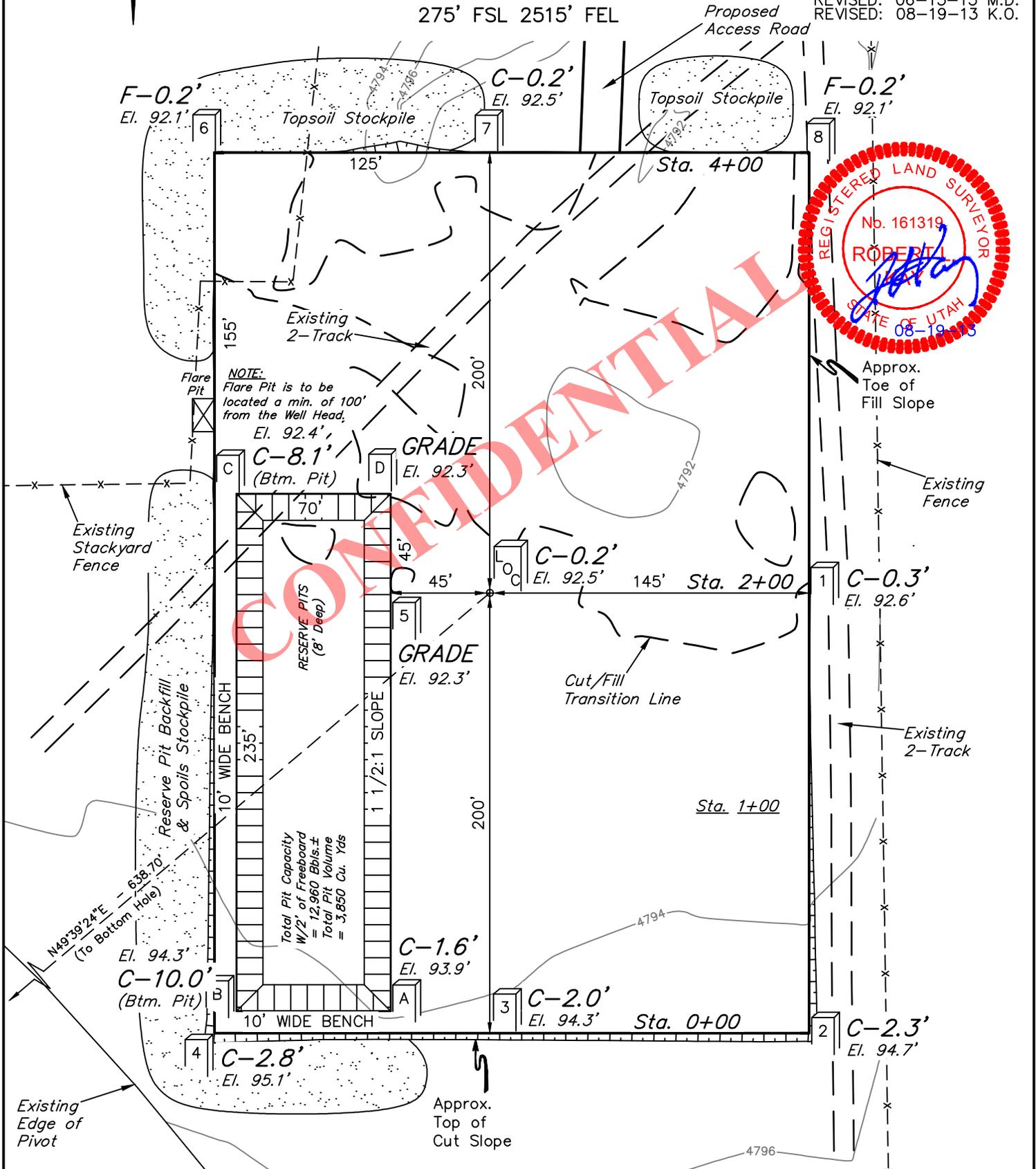
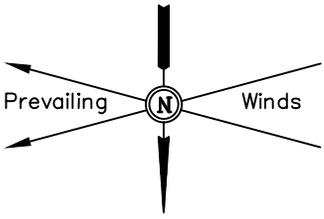
SCALE: 1" = 60'

DATE: 03-16-12

DRAWN BY: J.J.

REVISED: 06-13-13 M.D.

REVISED: 08-19-13 K.O.



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NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.
El. 92.4'

RESERVE PITS (8' Deep)
Total Pit Capacity W/2' of Freeboard = 12,960 Bbls.±
Total Pit Volume = 3,850 Cu. Yds

Elev. Ungraded Ground At Loc. Stake = 4792.5'
FINISHED GRADE ELEV. AT LOC. STAKE = 4792.3'

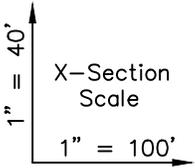
UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: August 26, 2013

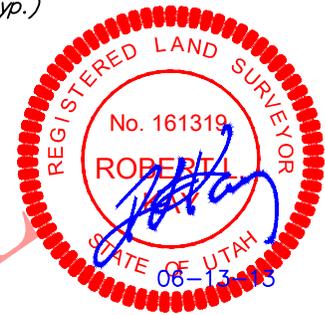
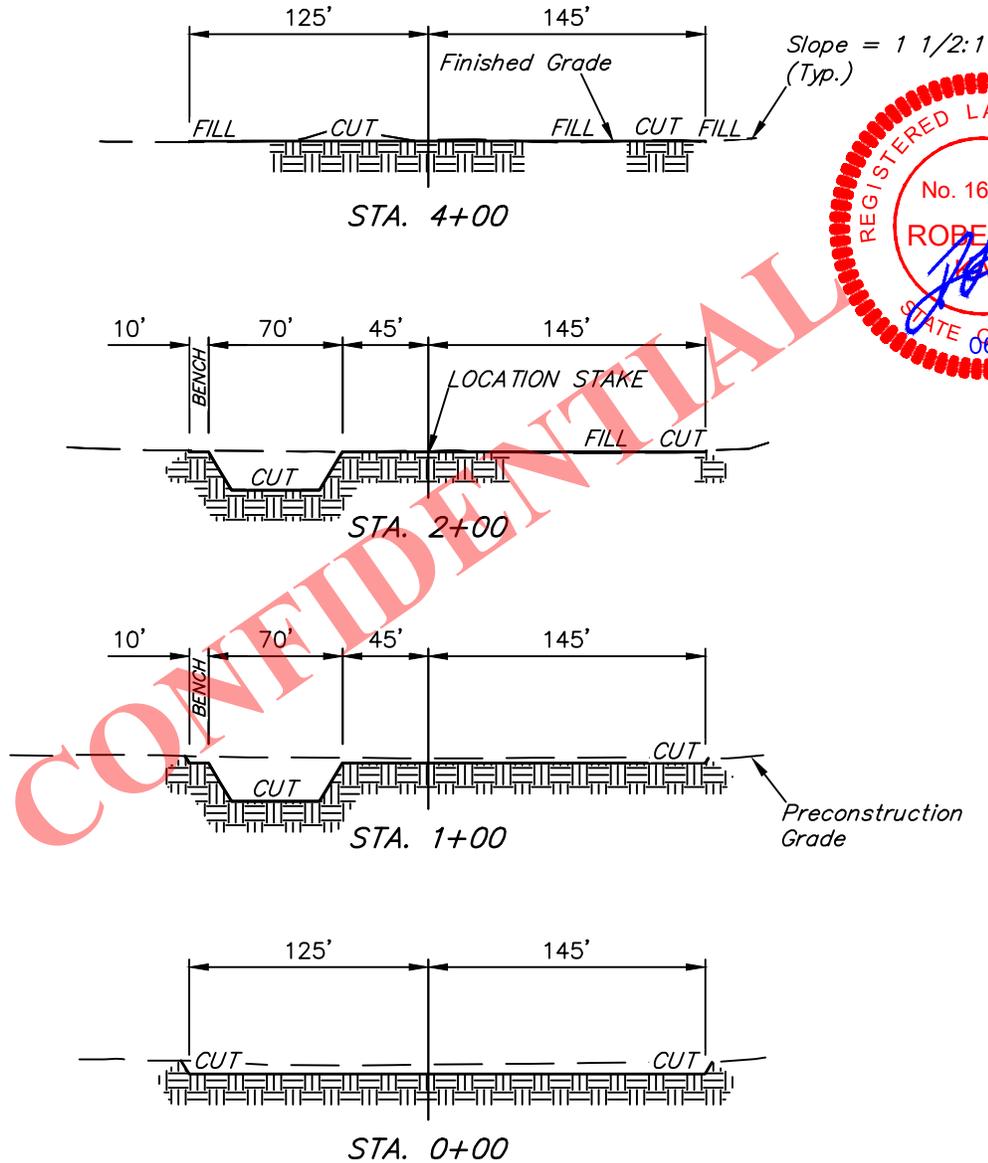
BILL BARRETT CORPORATION

FIGURE #2

TYPICAL CROSS SECTIONS FOR
 AURORA FEDERAL #15-23D-7-20
 SECTION 23, T7S, R20E, S.L.B.&M.
 275' FSL 2515' FEL



DATE: 03-16-12
 DRAWN BY: J.J.
 REVISED: 06-13-13 M.D.



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

APPROXIMATE ACREAGES
 WELL SITE DISTURBANCE = ± 3.306 ACRES
 ACCESS ROAD DISTURBANCE = ± 0.072 ACRES
 PIPELINE DISTURBANCE = ± 0.080 ACRES
 TOTAL = ± 3.458 ACRES

*** NOTE:**
 FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(12") Topsoil Stripping	=	4,130 Cu. Yds.
Remaining Location	=	4,340 Cu. Yds.
TOTAL CUT	=	8,470 CU. YDS.
FILL	=	2,410 CU. YDS.

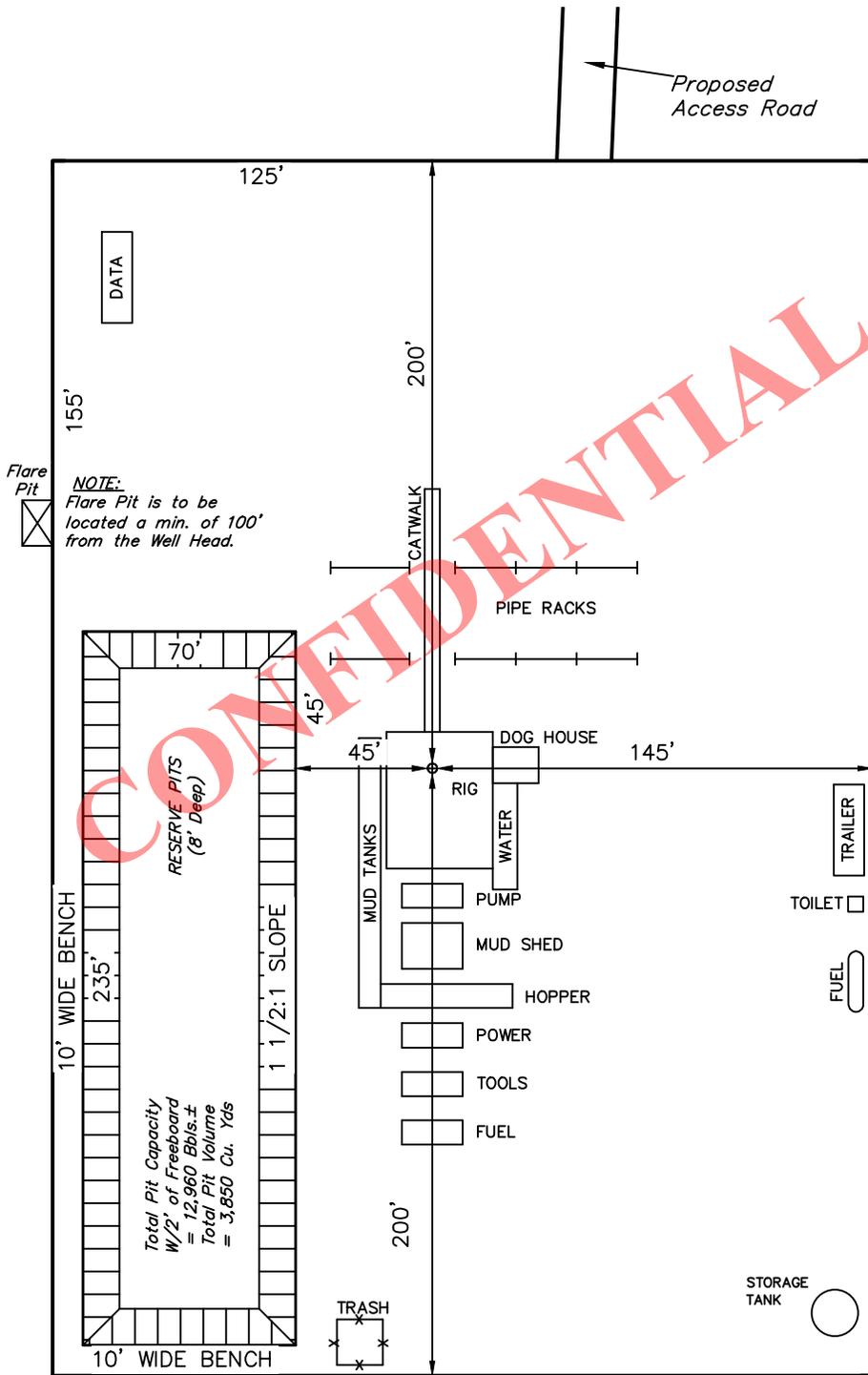
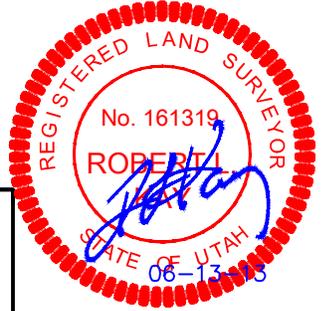
EXCESS MATERIAL	=	6,060 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	6,060 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	=	0 Cu. Yds.

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

BILL BARRETT CORPORATION
 TYPICAL RIG LAYOUT FOR
 AURORA FEDERAL #15-23D-7-20
 SECTION 23, T7S, R20E, S.L.B.&M.
 275' FSL 2515' FEL

FIGURE #3

SCALE: 1" = 60'
 DATE: 03-16-12
 DRAWN BY: J.J.
 REVISED: 06-13-13 M.D.



CONFIDENTIAL

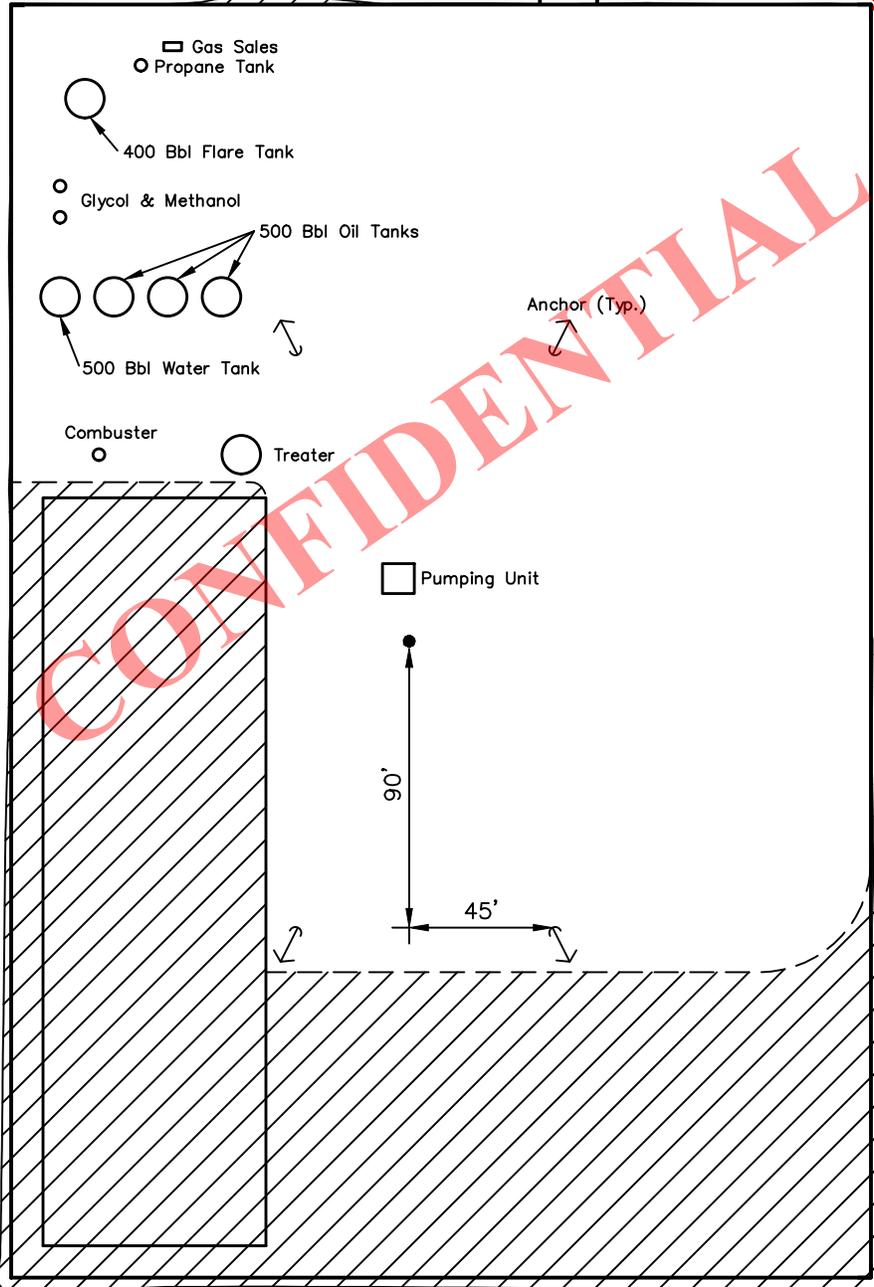
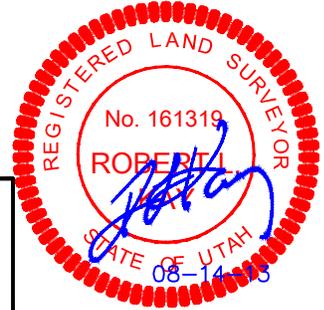
BILL BARRETT CORPORATION
INTERIM RECLAMATION PLAN FOR
AURORA FEDERAL #15-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
275' FSL 2515' FEL

FIGURE #4

SCALE: 1" = 60'
DATE: 08-13-13
DRAWN BY: K.O.



Access Road



CONFIDENTIAL

INTERIM RECLAMATION

APPROXIMATE ACREAGES
UN-RECLAIMED = ± 1.596 ACRES

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

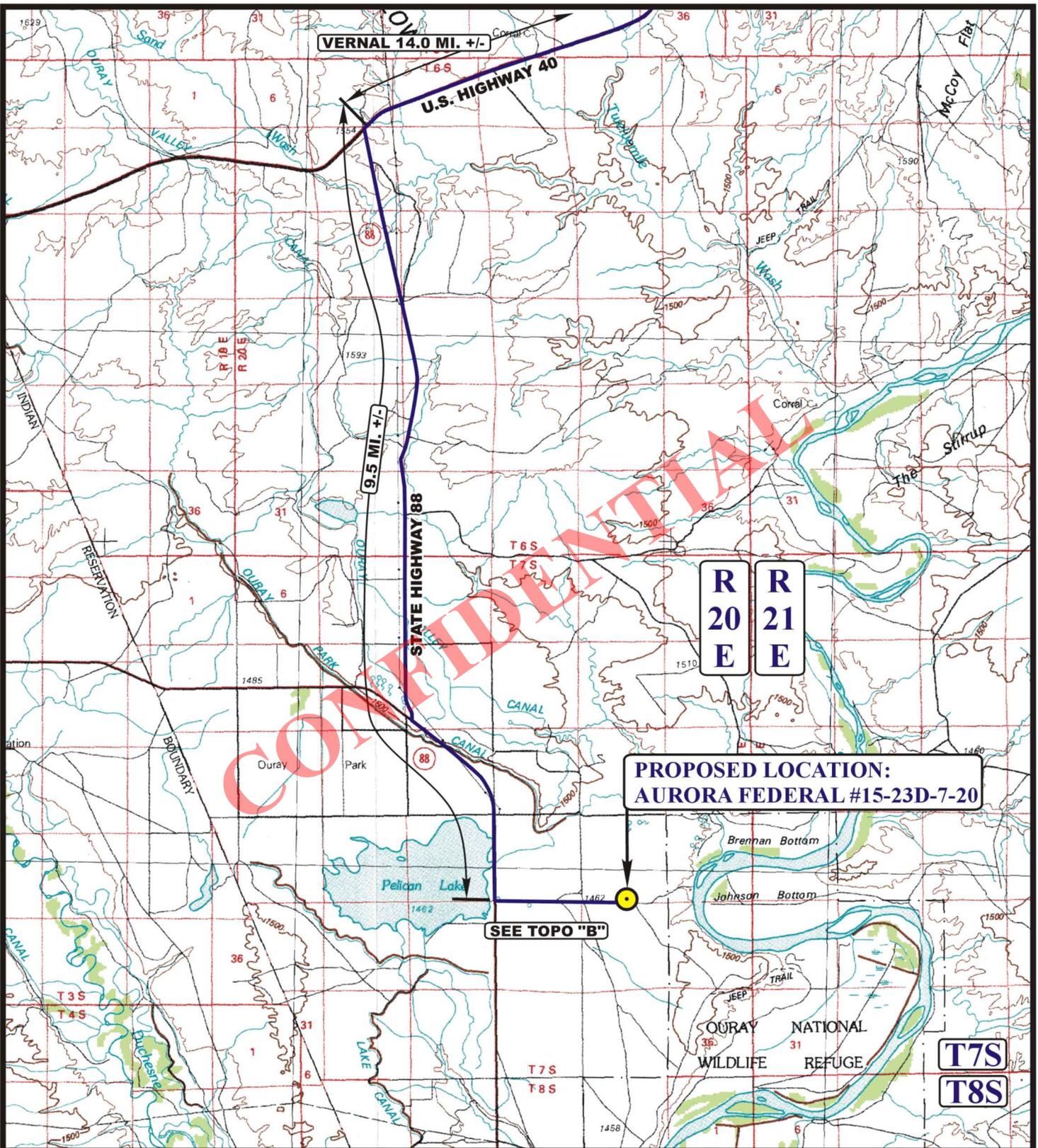
RECEIVED: August 26, 2013

**BILL BARRETT CORPORATION
AURORA FEDERAL #15-23D-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; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 9.5 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 1.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 130' TO THE PROPOSED LOCATON.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 25.0 MILES.

CONFIDENTIAL



**PROPOSED LOCATION:
AURORA FEDERAL #15-23D-7-20**

SEE TOPO "B"

**R
20
E**

**R
21
E**

**T7S
T8S**

LEGEND:

 **PROPOSED LOCATION**



BILL BARRETT CORPORATION

**AURORA FEDERAL #15-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
275' FSL 2515' FEL**



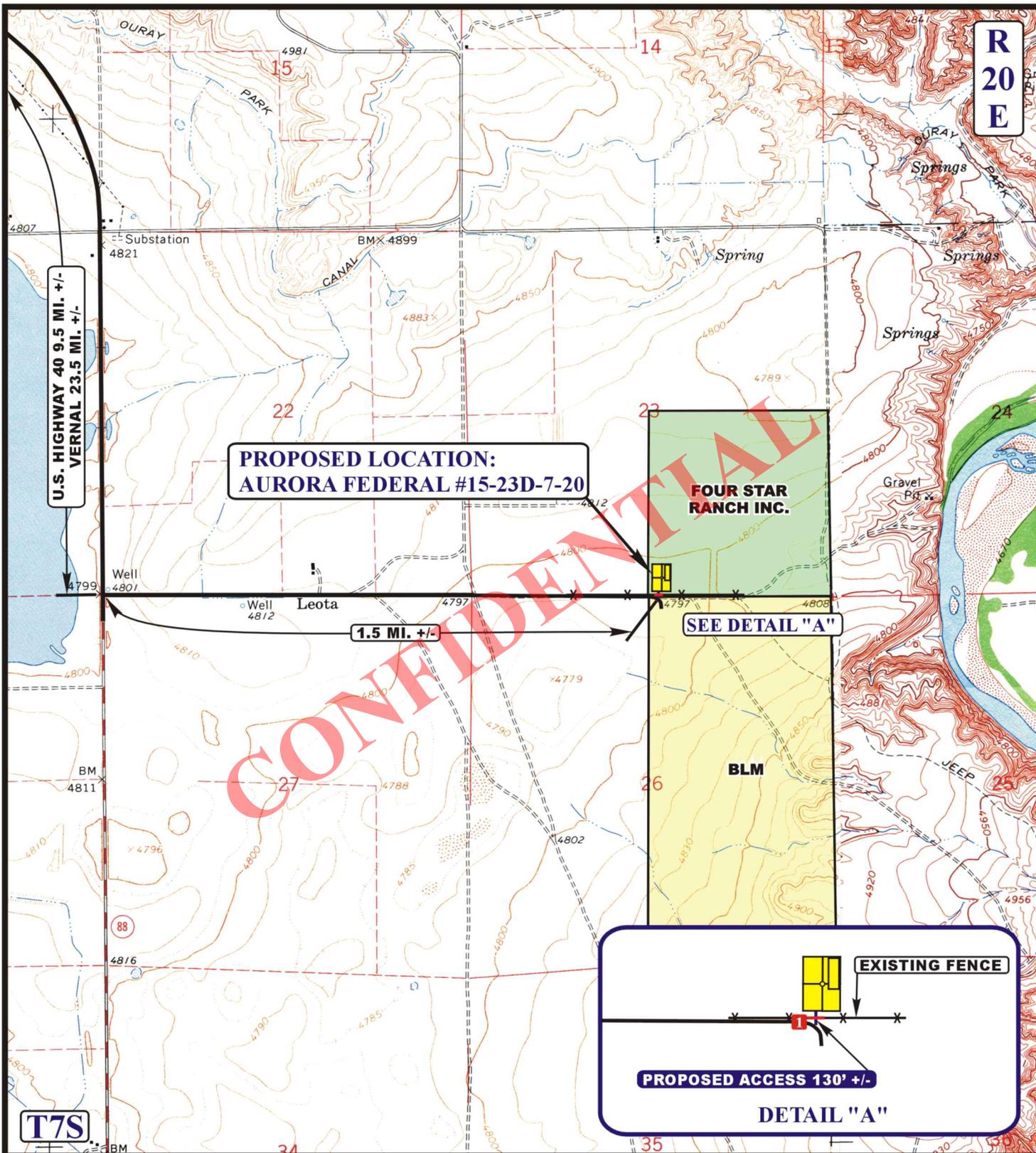
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**ACCESS ROAD
MAP**

03 21 12
MONTH DAY YEAR



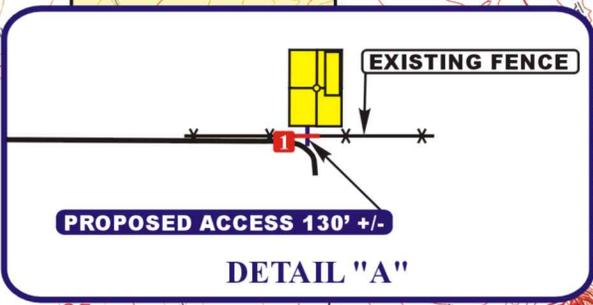
SCALE: 1:100,000 DRAWN BY: C.I. REV: 06-17-13 A.T.



**PROPOSED LOCATION:
AURORA FEDERAL #15-23D-7-20**

FOUR STAR RANCH INC.

BLM



LEGEND:

- EXISTING ROAD
- PROPOSED ACCESS ROAD
- EXISTING FENCE
- INSTALL CATTLE GUARD



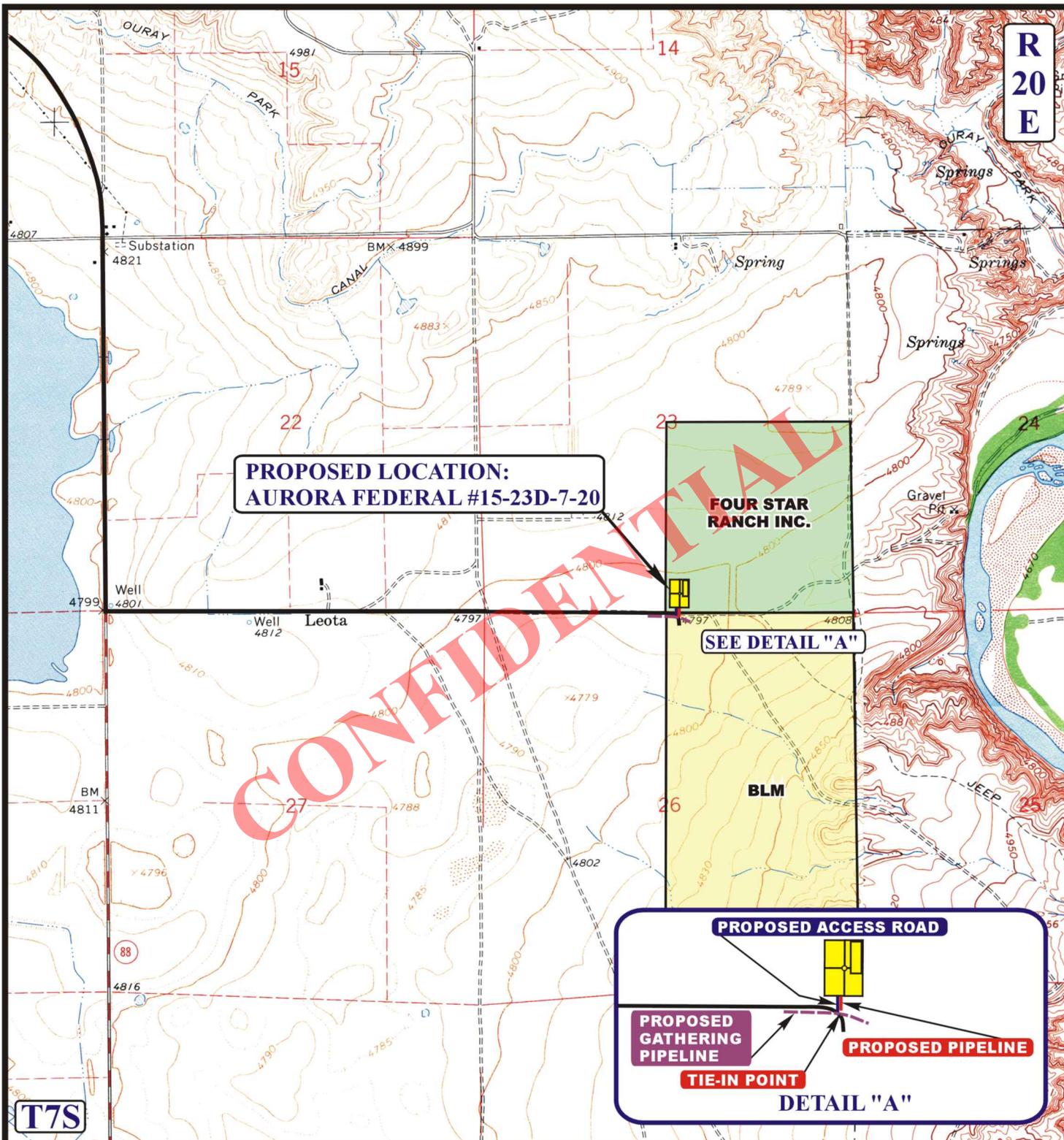
BILL BARRETT CORPORATION

**AURORA FEDERAL #15-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
275' FSL 2515' FEL**



Uints Engineering & Land Surveying
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ACCESS ROAD MAP	03	21	12	B TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.I.		REV: 06-17-13 A.T.	



APPROXIMATE TOTAL PIPELINE DISTANCE = 142' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

BILL BARRETT CORPORATION

**AURORA FEDERAL #15-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
275' FSL 2515' FEL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
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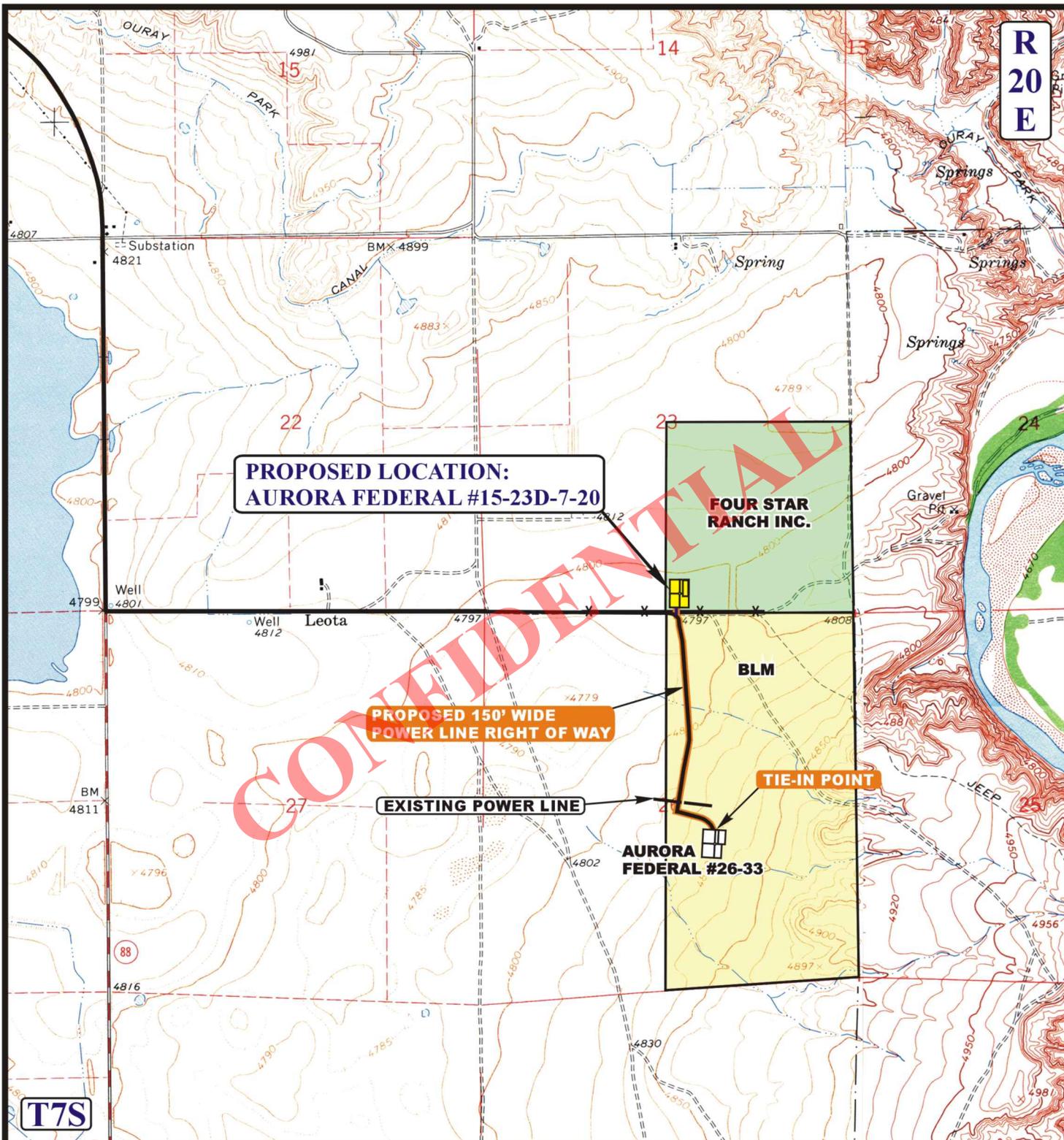


TOPOGRAPHIC MAP

SCALE: 1" = 2000' | DRAWN BY: C.I. | REV: 06-17-13 A.T.

03 21 12
MONTH DAY YEAR





APPROXIMATE TOTAL POWER LINE DISTANCE = 3,703' +/-

LEGEND:

	PROPOSED ACCESS ROAD
	EXISTING POWER LINE
	PROPOSED POWER LINE

BILL BARRETT CORPORATION
AURORA FEDERAL #15-23D-7-20
SECTION 23, T7S, R20E, S.L.B.&M.
275' FSL 2515' FEL



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

TOPOGRAPHIC	06	17	13	D TOPO
MAP	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: A.T.		REV: 08-19-13 S.O.	

BILL BARRETT CORP

UINTAH COUNTY

Aurora 15-23D-7-20

Aurora 15-23D-7-20

Wellbore #1

Plan: Design #1

Standard Planning Report

14 June, 2013

CONFIDENTIAL



SITE DETAILS: Aurora 15-23D-7-20
East Bluebell

Site Latitude: 40° 11' 22.499 N
Site Longitude: 109° 38' 4.661 W

COMPANY DETAILS: BILL BARRETT CORP

Calculation Method: Minimum Curvature
Error System: ISCWSA
Scan Method: Closest Approach 3D
Error Surface: Elliptical Conic
Warning Method: Error Ratio

Positional Uncertainty: 0.0
Convergence: 1.23
Local North: True

WELL DETAILS: Aurora 15-23D-7-20

Ground Level: 4792.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	-46778.82	2521199.88	40° 11' 22.499 N	109° 38' 4.661 W	

WELLBORE TARGET DETAILS (LAT/LONG)

Name	TVD	+N/-S	+E/-W	Latitude	Longitude	Shape
Aurora 15-23D-7-20 BTV	4500.0	413.2	486.8	40° 11' 26.581 N	109° 37' 58.390 W	Rectangle (Sides: L200.0 W200.0)
Aurora 15-23D-7-20 PBHL	7500.0	413.2	486.8	40° 11' 26.581 N	109° 37' 58.390 W	Rectangle (Sides: L200.0 W200.0)

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1600.0	0.00	0.00	1600.0	0.0	0.0	0.00	0.00	0.0	
3	2479.8	17.60	49.67	2466.0	86.7	102.2	2.00	49.67	134.0	
4	3705.1	17.60	49.67	3634.0	326.4	384.6	0.00	0.00	504.4	
5	4584.9	0.00	0.00	4500.0	413.2	486.8	2.00	180.00	638.5	Aurora 15-23D-7-20 BTV
6	7584.9	0.00	0.00	7500.0	413.2	486.8	0.00	0.00	638.5	Aurora 15-23D-7-20 PBHL

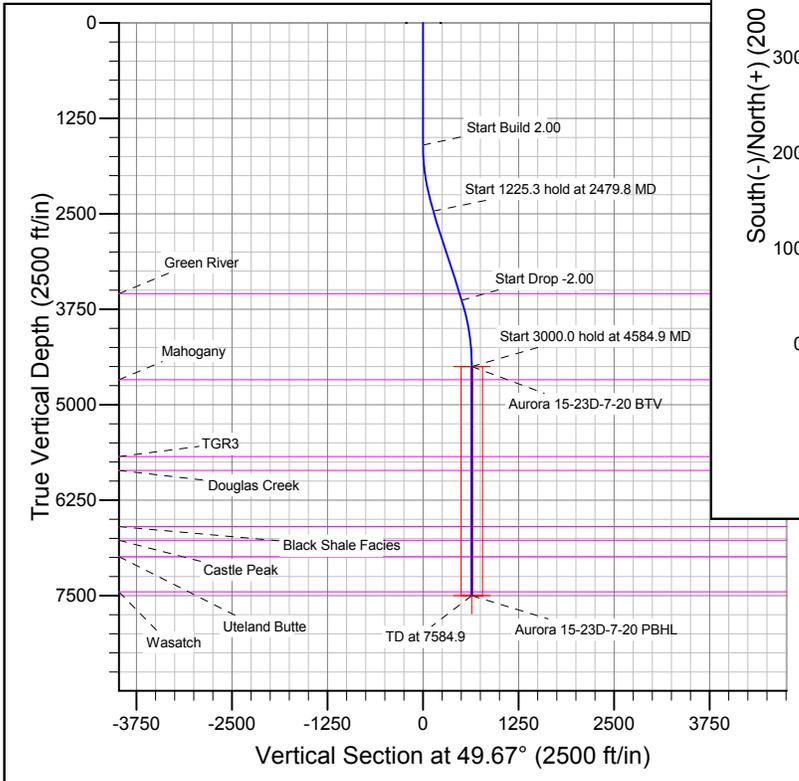
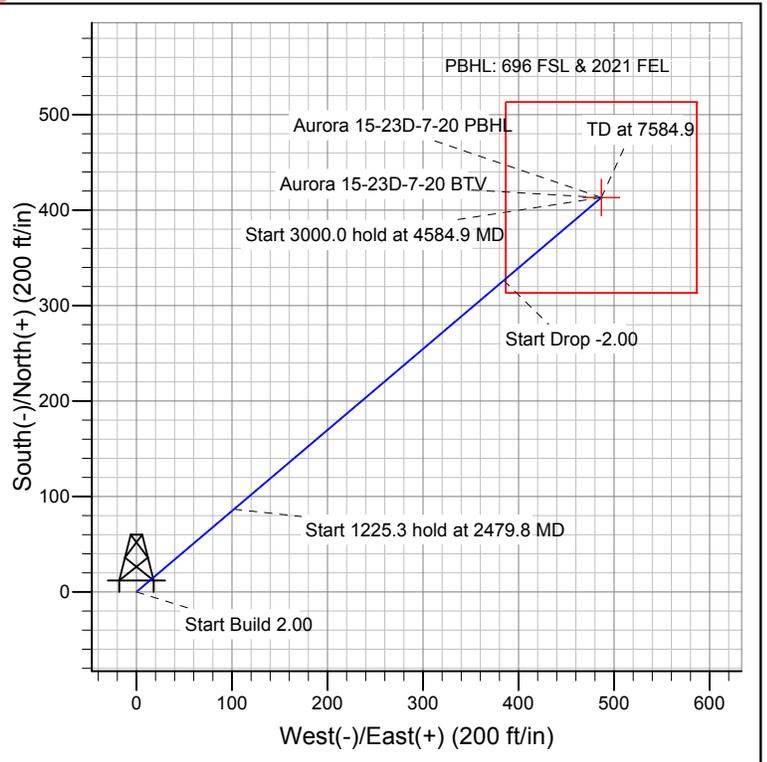
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3546.0	3612.8	Green River
4673.0	4757.9	Mahogany
5680.0	5764.9	TGR3
5860.0	5944.9	Douglas Creek
6596.0	6680.9	Black Shale Facies
6777.0	6861.9	Castle Peak
6991.0	7075.9	Uteland Butte
7451.0	7535.9	Wasatch

CASING DETAILS

No casing data is available

CONFIDENTIAL



Azimuths to True North
Magnetic North: 10.90°

Magnetic Field
Strength: 52215.0snT
Dip Angle: 65.94°
Date: 6/14/2013
Model: IGRF2010

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora 15-23D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4807.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4807.0ft (Original Well Elev)
Site:	Aurora 15-23D-7-20	North Reference:	True
Well:	Aurora 15-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Project	UINTAH COUNTY		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah North 4301		

Site	Aurora 15-23D-7-20				
Site Position:		Northing:	-46,778.81 ft	Latitude:	40° 11' 22.499 N
From:	Lat/Long	Easting:	2,521,199.88 ft	Longitude:	109° 38' 4.661 W
Position Uncertainty:	0.0 ft	Slot Radius:	"	Grid Convergence:	1.23 °

Well	Aurora 15-23D-7-20					
Well Position	+N/-S	0.0 ft	Northing:	-46,778.82 ft	Latitude:	40° 11' 22.499 N
	+E/-W	0.0 ft	Easting:	2,521,199.88 ft	Longitude:	109° 38' 4.661 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level:	4,792.0 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF2010	6/14/2013	(°)	(°)	(nT)
			10.90	65.94	52,215

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	49.67

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,479.8	17.60	49.67	2,466.0	86.7	102.2	2.00	2.00	0.00	49.67	
3,705.1	17.60	49.67	3,634.0	326.4	384.6	0.00	0.00	0.00	0.00	
4,584.9	0.00	0.00	4,500.0	413.2	486.8	2.00	-2.00	0.00	180.00	Aurora 15-23D-7-20 E
7,584.9	0.00	0.00	7,500.0	413.2	486.8	0.00	0.00	0.00	0.00	Aurora 15-23D-7-20 F

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora 15-23D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4807.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4807.0ft (Original Well Elev)
Site:	Aurora 15-23D-7-20	North Reference:	True
Well:	Aurora 15-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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
1,100.0	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
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build 2.00									
1,700.0	2.00	49.67	1,700.0	1.1	1.3	1.7	2.00	2.00	0.00
1,800.0	4.00	49.67	1,799.8	4.5	5.3	7.0	2.00	2.00	0.00
1,900.0	6.00	49.67	1,899.5	10.2	12.0	15.7	2.00	2.00	0.00
2,000.0	8.00	49.67	1,998.7	18.0	21.3	27.9	2.00	2.00	0.00
2,100.0	10.00	49.67	2,097.5	28.2	33.2	43.5	2.00	2.00	0.00
2,200.0	12.00	49.67	2,195.6	40.5	47.7	62.6	2.00	2.00	0.00
2,300.0	14.00	49.67	2,293.1	55.1	64.9	85.1	2.00	2.00	0.00
2,400.0	16.00	49.67	2,389.6	71.8	84.6	111.0	2.00	2.00	0.00
2,479.8	17.60	49.67	2,466.0	86.7	102.2	134.0	2.00	2.00	0.00
Start 1225.3 hold at 2479.8 MD									
2,500.0	17.60	49.67	2,485.3	90.7	106.8	140.1	0.00	0.00	0.00
2,600.0	17.60	49.67	2,580.6	110.2	129.9	170.4	0.00	0.00	0.00
2,700.0	17.60	49.67	2,675.9	129.8	152.9	200.6	0.00	0.00	0.00
2,800.0	17.60	49.67	2,771.3	149.4	176.0	230.8	0.00	0.00	0.00
2,900.0	17.60	49.67	2,866.6	168.9	199.0	261.1	0.00	0.00	0.00
3,000.0	17.60	49.67	2,961.9	188.5	222.1	291.3	0.00	0.00	0.00
3,100.0	17.60	49.67	3,057.2	208.1	245.1	321.5	0.00	0.00	0.00
3,200.0	17.60	49.67	3,152.5	227.6	268.2	351.8	0.00	0.00	0.00
3,300.0	17.60	49.67	3,247.9	247.2	291.2	382.0	0.00	0.00	0.00
3,400.0	17.60	49.67	3,343.2	266.7	314.3	412.2	0.00	0.00	0.00
3,500.0	17.60	49.67	3,438.5	286.3	337.3	442.4	0.00	0.00	0.00
3,600.0	17.60	49.67	3,533.8	305.9	360.4	472.7	0.00	0.00	0.00
3,612.8	17.60	49.67	3,546.0	308.4	363.3	476.5	0.00	0.00	0.00
Green River									
3,700.0	17.60	49.67	3,629.1	325.4	383.4	502.9	0.00	0.00	0.00
3,705.1	17.60	49.67	3,634.0	326.4	384.6	504.4	0.00	0.00	0.00
Start Drop -2.00									
3,800.0	15.70	49.67	3,724.9	344.0	405.3	531.6	2.00	-2.00	0.00
3,900.0	13.70	49.67	3,821.6	360.4	424.6	557.0	2.00	-2.00	0.00
4,000.0	11.70	49.67	3,919.2	374.7	441.4	579.0	2.00	-2.00	0.00
4,100.0	9.70	49.67	4,017.5	386.7	455.6	597.5	2.00	-2.00	0.00
4,200.0	7.70	49.67	4,116.3	396.5	467.1	612.7	2.00	-2.00	0.00
4,300.0	5.70	49.67	4,215.6	404.0	476.0	624.3	2.00	-2.00	0.00
4,400.0	3.70	49.67	4,315.3	409.3	482.2	632.5	2.00	-2.00	0.00
4,500.0	1.70	49.67	4,415.2	412.4	485.8	637.2	2.00	-2.00	0.00
4,584.9	0.00	0.00	4,500.0	413.2	486.8	638.5	2.00	-2.00	0.00

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora 15-23D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4807.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4807.0ft (Original Well Elev)
Site:	Aurora 15-23D-7-20	North Reference:	True
Well:	Aurora 15-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
Start 3000.0 hold at 4584.9 MD										
4,600.0	0.00	0.00	4,515.1	413.2	486.8	638.5	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,615.1	413.2	486.8	638.5	0.00	0.00	0.00	
4,757.9	0.00	0.00	4,673.0	413.2	486.8	638.5	0.00	0.00	0.00	
Mahogany										
4,800.0	0.00	0.00	4,715.1	413.2	486.8	638.5	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,815.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,915.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,015.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,115.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,215.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,315.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,415.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,515.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,615.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,764.9	0.00	0.00	5,680.0	413.2	486.8	638.5	0.00	0.00	0.00	
TGR3										
5,800.0	0.00	0.00	5,715.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,815.1	413.2	486.8	638.5	0.00	0.00	0.00	
5,944.9	0.00	0.00	5,860.0	413.2	486.8	638.5	0.00	0.00	0.00	
Douglas Creek										
6,000.0	0.00	0.00	5,915.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,015.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,115.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,215.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,315.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,415.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,515.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,680.9	0.00	0.00	6,596.0	413.2	486.8	638.5	0.00	0.00	0.00	
Black Shale Facies										
6,700.0	0.00	0.00	6,615.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,715.1	413.2	486.8	638.5	0.00	0.00	0.00	
6,861.9	0.00	0.00	6,777.0	413.2	486.8	638.5	0.00	0.00	0.00	
Castle Peak										
6,900.0	0.00	0.00	6,815.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,915.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,075.9	0.00	0.00	6,991.0	413.2	486.8	638.5	0.00	0.00	0.00	
Uteland Butte										
7,100.0	0.00	0.00	7,015.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,115.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,215.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,315.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,415.1	413.2	486.8	638.5	0.00	0.00	0.00	
7,535.9	0.00	0.00	7,451.0	413.2	486.8	638.5	0.00	0.00	0.00	
Wasatch										
7,584.9	0.00	0.00	7,500.0	413.2	486.8	638.5	0.00	0.00	0.00	
TD at 7584.9										

Bill Barrett Corp

Planning Report

Database:	Compass	Local Co-ordinate Reference:	Site Aurora 15-23D-7-20
Company:	BILL BARRETT CORP	TVD Reference:	KB @ 4807.0ft (Original Well Elev)
Project:	UINTAH COUNTY	MD Reference:	KB @ 4807.0ft (Original Well Elev)
Site:	Aurora 15-23D-7-20	North Reference:	True
Well:	Aurora 15-23D-7-20	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #1		

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Aurora 15-23D-7-20 PB† - hit/miss target - Shape	0.00	0.00	7,500.0	413.2	486.8	-46,355.30	2,521,677.66	40° 11' 26.581 N	109° 37' 58.390 W
- plan hits target - Rectangle (sides W200.0 H200.0 D0.0)									
Aurora 15-23D-7-20 BT\	0.00	0.00	4,500.0	413.2	486.8	-46,355.30	2,521,677.66	40° 11' 26.581 N	109° 37' 58.390 W
- plan hits target - Rectangle (sides W200.0 H200.0 D3,000.0)									

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,612.8	3,546.0	Green River		0.00	
4,757.9	4,673.0	Mahogany		0.00	
5,764.9	5,680.0	TGR3		0.00	
5,944.9	5,860.0	Douglas Creek		0.00	
6,680.9	6,596.0	Black Shale Facies		0.00	
6,861.9	6,777.0	Castle Peak		0.00	
7,075.9	6,991.0	Uteland Butte		0.00	
7,535.9	7,451.0	Wasatch		0.00	

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,600.0	1,600.0	0.0	0.0	Start Build 2.00
2,479.8	2,466.0	86.7	102.2	Start 1225.3 hold at 2479.8 MD
3,705.1	3,634.0	326.4	384.6	Start Drop -2.00
4,584.9	4,500.0	413.2	486.8	Start 3000.0 hold at 4584.9 MD
7,584.9	7,500.0	413.2	486.8	TD at 7584.9

SURFACE USE AGREEMENT
(Aurora 15-23D-7-20)

THIS AGREEMENT Dated April 15, 2013 by and between _____

Four Star Ranch, Inc.

whose address is 8281 N. Trails Drive, Park City, Utah 84098

phone # (801-707-5120)

, 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 owners in fee and in possession of the surface estate for the following described lands in Uintah County, Utah, hereinafter referred to as "Lands", to wit:

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

a. Wellsites and Access. For Ten Dollars (\$10.00) and other adequate consideration the said **Aurora 15-23D-**

additional damage.

b. Power Lines. Grant a Right-of-Way Easement for overhead and/or underground power lines and power line facilities to be exercised by Moon Lake Electric Association, Inc. throughout their service territory.

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:

David R. Yeaman Pres

**By: Four Star Ranch, Inc.
David R. Yeaman, President**

CONFIDENTIAL

STATE of Utah

ACKNOWLEDGEMENT

COUNTY of Uintah

BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 29th day of April, 2013, personally appeared David R. Yeaman, President of Four Star Ranch, Inc.

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

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

My Commission Expires: 11-25-2014

Terra M. Miller

Notary Public



NW 1/4

NE 1/4

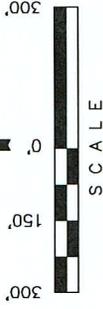
Sec. 23

BILL BARRETT CORPORATION

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

(For AURORA #15-23D-7-20)

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



SCALE

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.	49.36	0.034	2.99

▲ = SECTION CORNERS LOCATED.



CERTIFICATE
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM THE FIELD NOTES OF J. J. S. R. AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

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

SCALE	1" = 300'	DATE	03-16-12
PARTY	C.R. S.R. J.J.	REFERENCES	G.L.O. PLAT
WEATHER	WARM	FILE	5 1 8 1 7

ROAD RIGHT-OF-WAY DESCRIPTION

A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.
BEGINNING AT A POINT ON THE SOUTH LINE OF THE SW 1/4 SE 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M. WHICH BEARS S89°07'18"E 120.87' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE S89°58'47"W 118.97'; THENCE S00°01'13"W 450.00'; SECTION 23, THENCE N02°18'22"E 49.36' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 23, WHICH BEARS N68°52'22"E 131.69' FROM THE SOUTH 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 0.034 ACRES MORE OR LESS.

SURFACE USE AREA DESCRIPTION

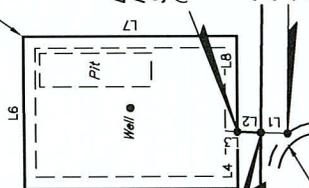
BEGINNING AT A POINT IN THE SW 1/4 SE 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M. WHICH BEARS N64°04'56"W 131.87' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE S89°58'47"W 118.97'; THENCE S00°01'13"W 450.00'; THENCE N89°58'47"E 320.00'; THENCE S00°01'13"E 450.00'; THENCE S89°58'47"W 201.03' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.306 ACRES MORE OR LESS.

BEGINNING OF ROAD ON FEE LANDS STA. 0+55.83 BEARS S89°07'18"E 120.87' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

END OF ROAD STA. 1+05.19 BEARS N68°52'22"E 131.69' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

Four Star Ranch Inc.

SURFACE USE AREA AURORA #15-23D-7-20
Contains 3.306 Acres



BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY ON FEE LANDS STA. 0+55.83 (At Section Line)

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 1+05.19 (At Edge of Surface Use Area)

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

1988 Brass Cap, Flush W/Ground, N/E/W Fence Line Existing Road

1988 Brass Cap, 0.2' High, E-W Fence Line

1/4 Section Line

SW 1/4

SE 1/4

1/16 Section Line

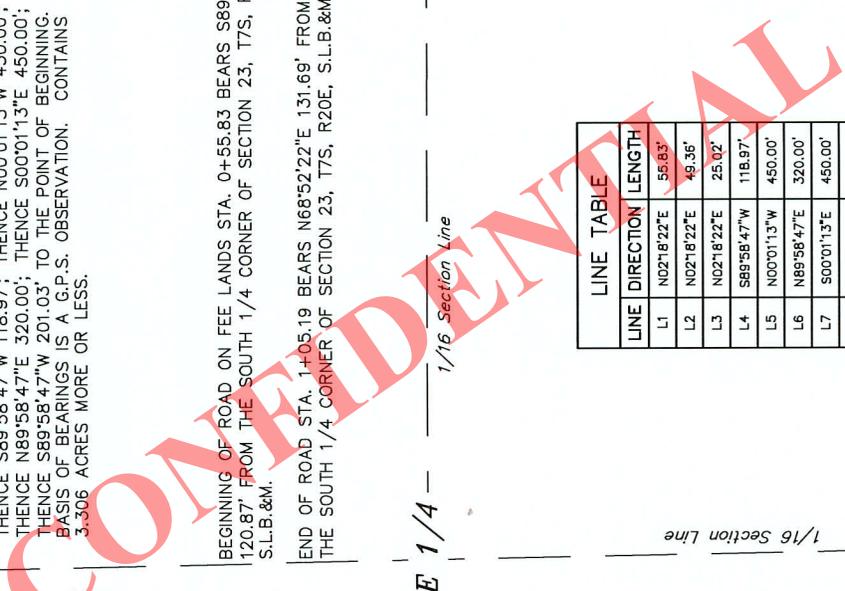
1/16 Section Line

Section Line

S01°00'47"E - 2785.94' (Meas.)

Section Line

LINE	DIRECTION	LENGTH
L1	N02°18'22"E	55.63'
L2	N02°18'22"E	48.36'
L3	N02°18'22"E	25.02'
L4	S89°58'47"W	118.97'
L5	N00°01'13"W	450.00'
L6	N89°58'47"E	320.00'
L7	S00°01'13"E	450.00'
L8	S89°58'47"W	201.03'



MEMORANDUM OF SURFACE USE AGREEMENT

State of Utah)
)
County of Uintah)

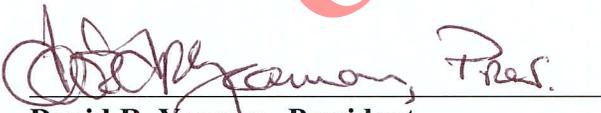
For Ten Dollars (\$10.00) and other adequate consideration, **Four Star Ranch, Inc. of 8281 North Trails Drive, Park City, UT 84098**, hereafter referred to as "Surface Owner" has granted, a Surface Use Agreement, to **Bill Barrett Corporation of 1099 18th Street, #2300, Denver, CO 80202**, hereafter referred to as "Bill Barrett", dated **April 15, 2013**, for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from **Aurora 15-23D-7-20** on the following land (the "Lands") in Uintah County Utah: **A tract of land lying in the SW/4SE/4 of Section 23, Township 7 South, Range 20 East, SLM, Uintah County.**

The Surface Use Agreement is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Use Agreement.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 29th day of April, 2013.

SURFACE OWNER:
Four Star Ranch, Inc.


David R. Yeaman, President

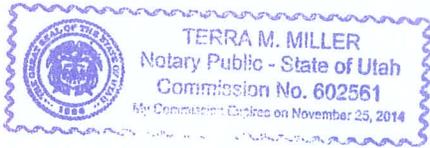
ACKNOWLEDGEMENT

STATE OF UTAH }
 }:SS
COUNTY OF UINTAH }

BEFORE me, the undersigned, a Notary Public in and for said County and State, on this 29th day of April, 2013, personally appeared **David R. Yeaman, President of Four Star Ranch, Inc., 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

Residing At: Yeaman, UT



NW 1/4

Sec. 23

NE 1/4

ROAD RIGHT-OF-WAY DESCRIPTION

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

BEGINNING AT A POINT ON THE SOUTH LINE OF THE SW 1/4 SE 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M. WHICH BEARS S89°07'18"E 120.87' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE S89°07'18"E 120.87' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE N02°18'22"E 49.36' TO A POINT IN THE SW 1/4 SE 1/4 OF SAID SECTION 23, WHICH BEARS N68°52'22"E 131.69' FROM THE SOUTH 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 0.034 ACRES MORE OR LESS.

SURFACE USE AREA DESCRIPTION

BEGINNING AT A POINT IN THE SW 1/4 SE 1/4 OF SECTION 23, T7S, R20E, S.L.B.&M. WHICH BEARS N64°04'56"W 131.87' FROM THE SOUTH 1/4 CORNER OF SAID SECTION 23, THENCE S89°58'47"W 118.97'; THENCE N00°01'13"W 450.00'; THENCE N89°58'47"E 320.00'; THENCE S00°01'13"E 450.00'; THENCE S89°58'47"W 201.03' TO THE POINT OF BEGINNING. BASIS OF BEARINGS IS A G.P.S. OBSERVATION. CONTAINS 3.306 ACRES MORE OR LESS.

BEGINNING OF ROAD ON FEE LANDS STA. 0+55.83 BEARS S89°07'18"E 120.87' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

END OF ROAD STA. 1+05.19 BEARS N68°52'22"E 131.69' FROM THE SOUTH 1/4 CORNER OF SECTION 23, T7S, R20E, S.L.B.&M.

Four Star Ranch Inc.

SURFACE USE AREA
AURORA #15-23D-7-20

Contains 3.306 Acres

END OF PROPOSED ROAD RIGHT-OF-WAY STA. 1+05.19
(At Edge of Surface Use Area)

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

BEGINNING OF PROPOSED ROAD RIGHT-OF-WAY ON FEE LANDS STA. 0+55.83
(At Section Line)

1988 Brass Cap, Flush W/Ground, N/E/W Fence Line

Existing Road

N89°07'18"W - 2695.08' (Meas.)

Section Line

1988 Brass Cap, 0.2' High, E-W Fence Line

Section Line

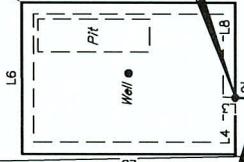
SW 1/4

SE 1/4

1/16 Section Line

1/16 Section Line

1/4 Section Line



LINE	DIRECTION	LENGTH
L1	N02°18'22"E	55.83'
L2	N02°18'22"E	49.36'
L3	N02°18'22"E	25.02'
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L5	N00°01'13"W	450.00'
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L7	S00°01'13"E	450.00'
L8	S89°58'47"W	201.03'

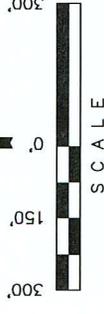
Section Line 501°00'47"E - 2785.94' (Meas.)

BILL BARRETT CORPORATION

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

(For AURORA #15-23D-7-20)

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



SCALE

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.	49.36	0.034	2.99

▲ = SECTION CORNERS LOCATED.

CERTIFICATE

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

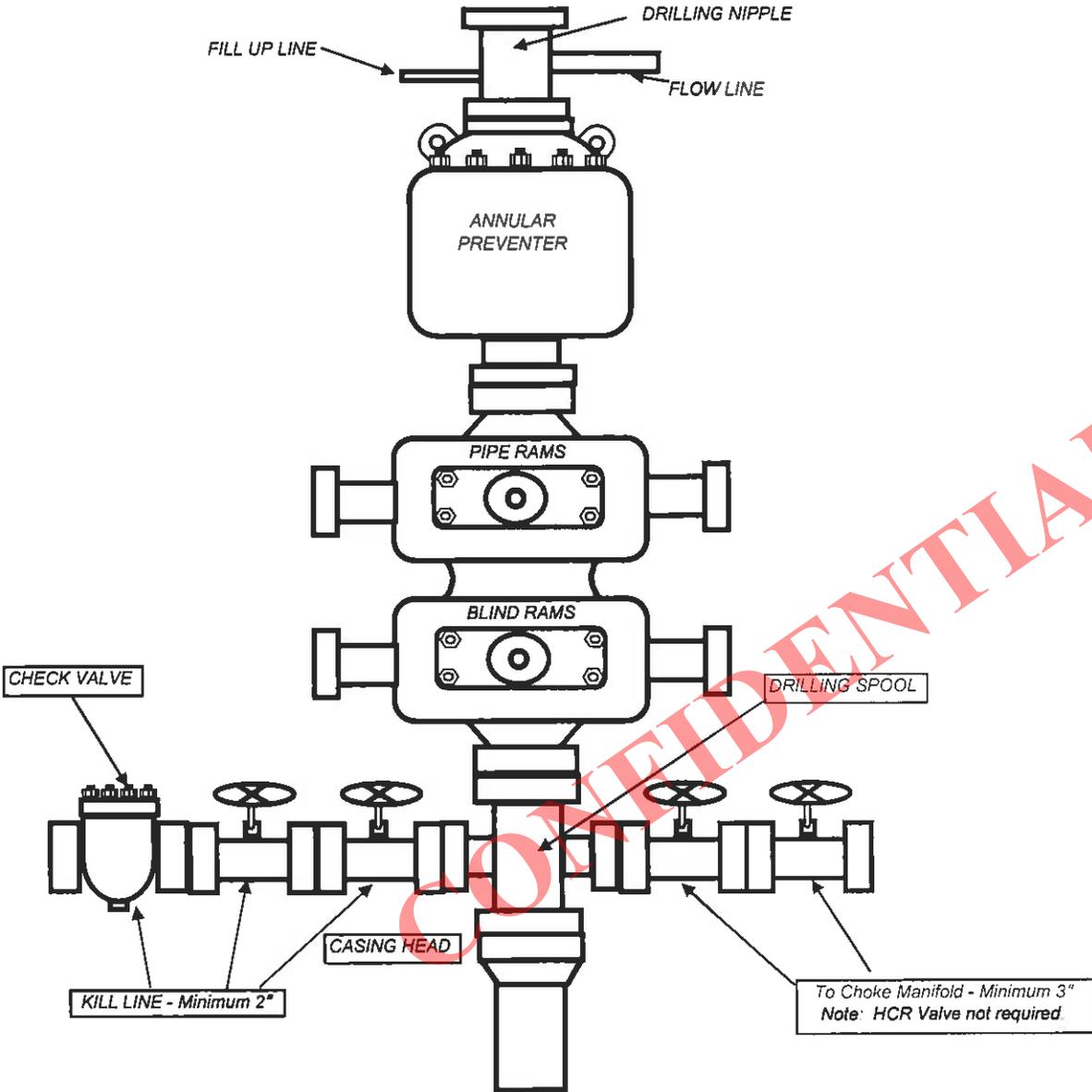


UTAH ENGINEERING & LAND SURVEYING
85 SOUTH - 200 EAST • (435) 789-1017
VERNAL, UTAH - 84078

SCALE	1" = 300'	DATE	03-16-12
PARTY	C.R. S.R. J.J.	REFERENCES	G.L.O. PLAT
WEATHER	WARM	FILE	5 1 8 1 7

BILL BARRETT CORPORATION

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





AFFIDAVIT OF NOTICE

My name is Thomas J. Abell. I am a Landman with Bill Barrett Corporation (BBC). BBC has submitted Sundry Notices to commingle production from the Wasatch and Green River formations in the following well within the Aurora Deep Field:

Aurora Federal 15-23D-7-20 SWSE Section 23 T7S-R20E

In compliance with the Utah OGM regulation R649-3-22, I have provided a copy of the Sundry Notices, by certified mail, to the owners as listed below of all contiguous oil and gas Leases or drilling units overlying the pool.

Lessees

EnCana Oil & Gas (USA) Inc.
Forest Oil Corporation

Date: April 10, 2012

Affiant:

BILL BARRETT CORPORATION

A handwritten signature in blue ink that reads 'Brady Riley' with 'for' written below it.

Thomas J. Abell
Landman



January 16, 2013

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

RE: Sundry Notices
Aurora Deep Unit
Aurora Federal 15-23D-7-20
SWSE Section 23, T7S-R20E
Duchesne County, UT

Dear Mr. Doucet,

Bill Barrett Corporation has submitted Sundry Notices to commingle production from the Wasatch and Green River formations in the subject well located in the Aurora Deep Unit. In compliance with Utah OGM regulation R649-3-22, BBC has enclosed copies of the completed Sundry Notices.

Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION

A handwritten signature in blue ink that reads 'Brady Riley for'. The signature is written in a cursive style.

Thomas J. Abell
Landman

Enclosures



January 16, 2013

EnCana Oil & Gas (USA), Inc.
Attn: Judy Tatham
370 17th Street, Suite 1700
Denver, CO 80202

RE: Sundry Notices
Aurora Federal 15-23D-7-20
Uintah County, UT

Dear Ms. Tatham,

Bill Barrett Corporation has submitted Sundry Notices to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the Sundry Notice together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION

*Brady Riley
for*

Thomas J. Abell
Landman

Enclosures



January 16, 2013

Forest Oil Corporation
Attn: Ken Mcphee
707 17th St # 3600
Denver, CO 80202

RE: Sundry Notices
Aurora Federal 15-23D-7-20
Uintah County, UT

Dear Mr. Mcphee,

Bill Barrett Corporation has submitted Sundry Notices to commingle production from the Wasatch and Green River formations in the subject well. We enclosed herewith copies of the Sundry Notice together with a plat showing the leases and wells in the area and affidavit confirming notice pursuant to the Utah OGM regulations.

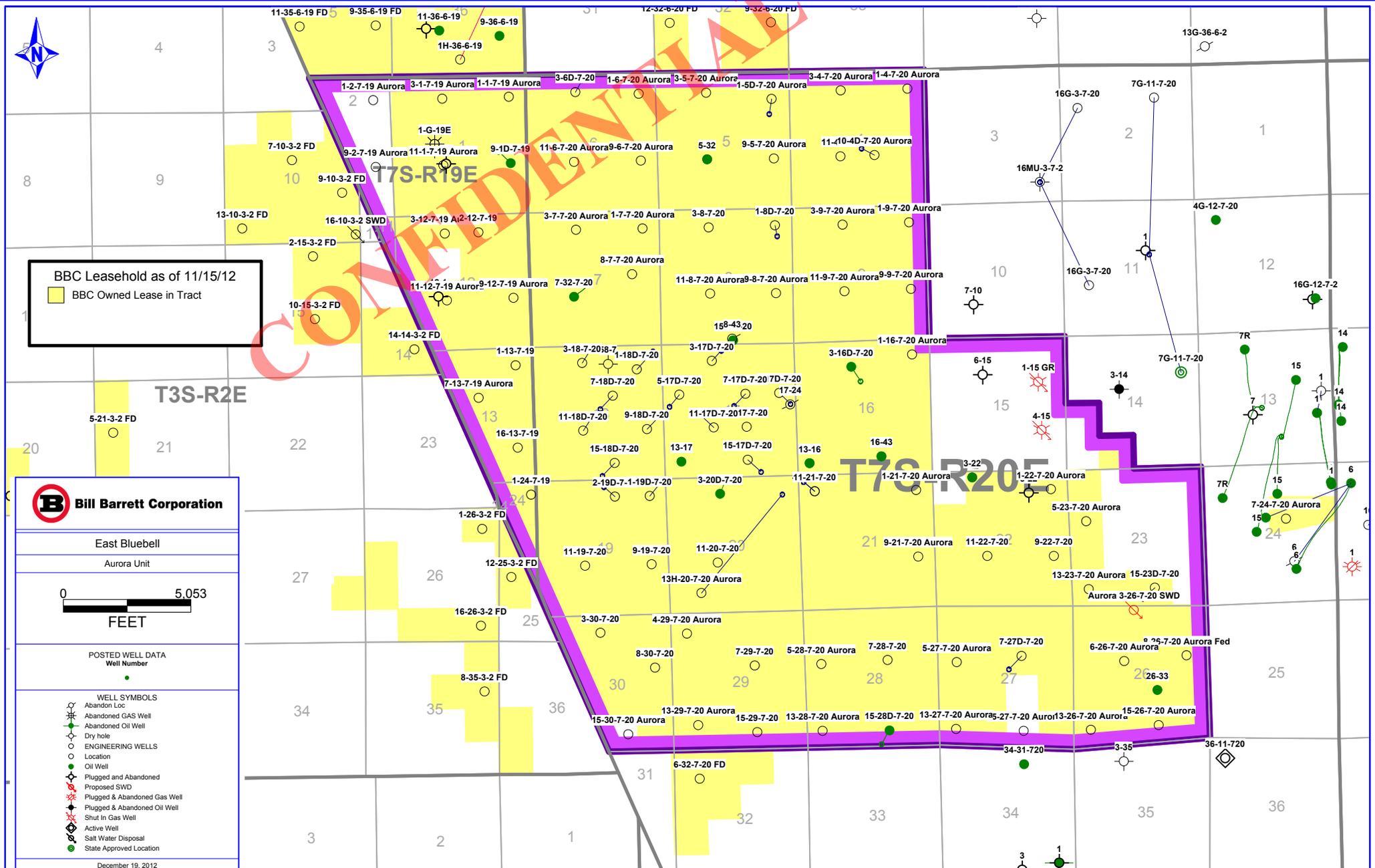
Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION

*Brady Riley
for*

Thomas J. Abell
Landman

Enclosures

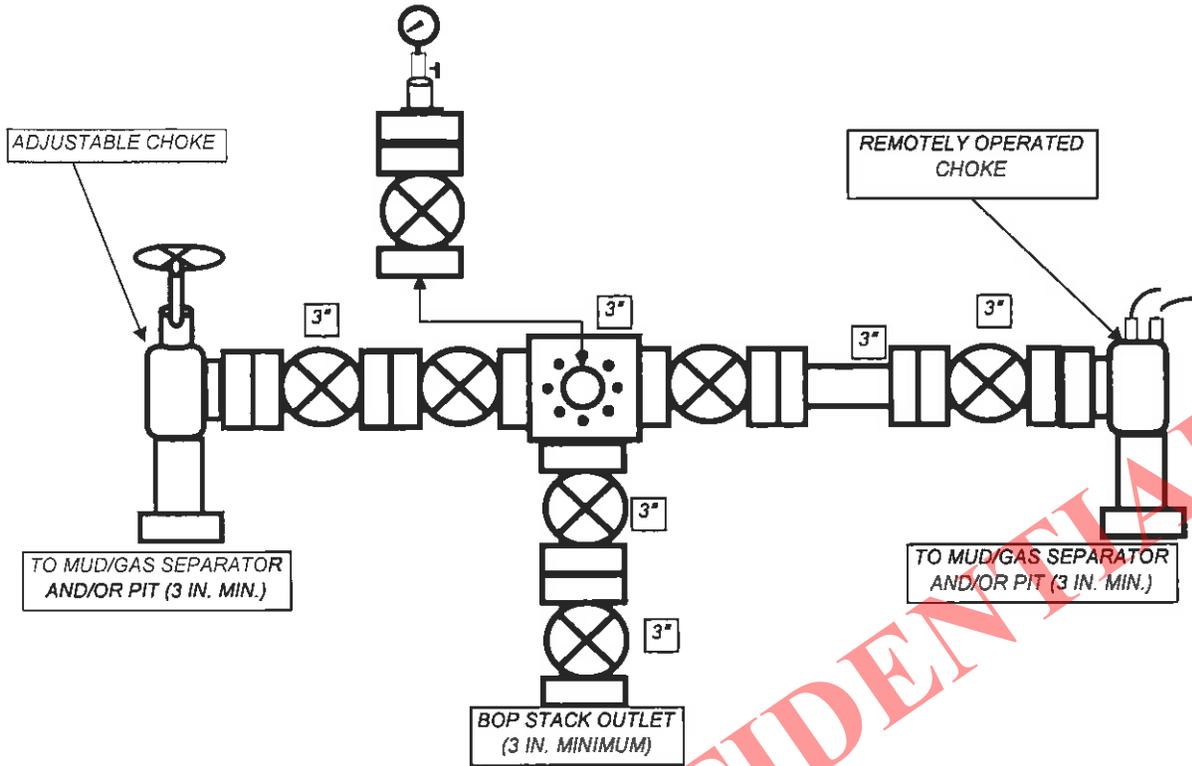


PETRA 12/19/2012 9:26:55 AM

RECEIVED: June 19, 2013

BILL BARRETT CORPORATION

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



CONFIDENTIAL

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 24, 2013

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2013 Plan of Development Aurora (Deep) Unit,
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2013 within the Aurora (Deep) Unit, Uintah County, Utah.

API #	LOCATION	WELL NAME
Proposed PZ	GREEN RIVER-WASATCH)	
43-047-53881	AURORA FEDERAL 7-18D-7-20	Sec 18 T07S R20E 2430 FNL 2506 FEL BHL Sec 18 T07S R20E 1980 FNL 1980 FEL
43-047-53882	AURORA FEDERAL 10-4D-7-20	Sec 04 T07S R20E 2300 FSL 2510 FEL BHL Sec 04 T07S R20E 2013 FSL 1997 FEL
43-047-53883	AURORA FEDERAL 15-23D-7-20	Sec 23 T07S R20E 0275 FSL 2515 FEL BHL Sec 23 T07S R20E 0696 FSL 2021 FEL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael.Coulthard@blm.gov, c=US
Date: 2013.06.24 13:10:10 -0600'

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

MCoulthard:mc:6-24-13

RECEIVED: June 25, 2013

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

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

OCT 24 2013

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU80689
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 of CA Agreement, Name and No. AURORA DEEP UNIT
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 15-23D-7-20
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SWSE 275FSL 2515FEL At proposed prod. zone SWSE 696FSL 2021FEL		9. API Well No. 43 047 53883
14. Distance in miles and direction from nearest town or post office* 25.0 MILES TO VERNAL, UT	15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 674' LEASE LINE; 2021' UNIT LINE	10. Field and Pool, or Exploratory BRENNAN BOTTOM
16. No. of Acres in Lease 840.00	17. Spacing Unit dedicated to this well 40.00	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. 2941'	19. Proposed Depth 7585 MD 7500 TVD	12. County or Parish UINTAH
20. BLM/BIA Bond No. on file WYB000040	21. Elevations (Show whether DF, KB, RT, GL, etc.) 4792 GL	13. State UT
22. Approximate date work will start 06/01/2014	23. Estimated duration 60 D&C	

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BLM Vernal UT

JAN 30 2014

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.

DIV. OF OIL, GAS & MINING

25. Signature (Electronic Submission)	Name (Printed/Typed) BRADY RILEY Ph: 303-312-8115	Date 09/17/2013
Title PERMIT ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date JAN 24 2014
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

Additional Operator Remarks (see next page)

Electronic Submission #220273 verified by the BLM Well Information System
For BILL BARRETT CORPORATION, sent to the Vernal
Committed to AFMSS for processing by LESLIE BUHLER on 10/24/2013 ()

NOTICE OF APPROVAL

UDOGM

**** 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 15-23D-7-20
API No: 43-047-53883

Location: SWSE SEC 23 T07S R20E
Lease No: UTU80689
Agreement: UTU82456C

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)**

- 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.
- 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.
- The private landowner (Four Star Ranch) will be notified by BBC prior to commencement of construction of the well pad and related infrastructure.
- Private landowner access to existing haystack will be maintained by BBC during construction, drilling, and completion, as well as throughout the production phase of the well.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- Noxious 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.
- All above ground production facilities will be painted Covert Green to help blend in with the surrounding habitat, unless otherwise directed by the BLM or landowners.
- 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 shall 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.
- Site reclamation will 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 shall 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.

- Cicer milkvetch is proposed as part of the interim reclamation seed mix for this location. If this species is used it should be seeded in alternate rows from proposed grass species in order to prevent being outcompeted.

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

SITE SPECIFIC DOWNHOLE COAs:

1. A formation integrity test shall be performed at the surface casing shoe.
2. Gamma Ray Log shall be run from Total Depth to Surface.
3. To effectively protect useable water, cement for the long string is required to be brought 200' above the surface casing shoe.
4. A bowl diverter system, which is connected and discharges to a panic or choke blooie line, shall be installed while drilling the surface hole section.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

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

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- 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.

March 7, 2013

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 15-23D-7-20
East Bluebell Area
Surface: 275' FSL and 2515' FEL, Sec. 23, T7S-R20E SLM
Bottom Hole: 696' FSL and 2021' FEL, Sec. 23, T7S-R20E 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 BLM lease UTU-80689.
- 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.

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)312-8757.

Sincerely,



Kevin T. Funk
Land Technician II
BILL BARRETT CORPORATION

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ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator BILL BARRETT CORP
Well Name AURORA FEDERAL 15-23D-7-20
API Number 43047538830000 **APD No** 8211 **Field/Unit** BRENNAN BOTTOM
Location: 1/4,1/4 SWSE **Sec** 23 **Tw** 7.0S **Rng** 20.0E 275 FSL 2515 FEL
GPS Coord (UTM) 616162 4449686 **Surface Owner** FOUR STAR RANCH

Participants

Kary Eldredge and Danny Rasmussen (Bill Barrett Corporation), Cody Rich (surveyor), Jim Burns (permit contractor), Terra Miller (land contractor), Amy Ackman (archeologist), David Yaeman (land owner)

Regional/Local Setting & Topography

This proposed well pad sits in the southwest corner of a large irrigated farm field. The site is just under 1 mile west of the green river and just over 1.5 miles east of Pelican lake in Leota, Utah. The site is flat with very permeable sandy soil.

Surface Use Plan

Current Surface Use

Agricultural

**New Road
Miles**

0.02

Well Pad

Width 270 **Length** 400

Src Const Material

Offsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

various weeds

Soil Type and Characteristics

Sandy loam

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Permeable soils

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

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	TDS>10000	15
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score		50 1 Sensitivity Level

Characteristics / Requirements

The reserve pit is proposed in a cut stable location. Dimensions are 235 x 70 x 10ft. Bill Barrett representative Kary Eldredge stated that a 20 mil reserve pit liner and felt subliner will be used. This liner program appears adequate for this location.

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

Richard Powell
Evaluator

7/10/2013
Date / Time

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

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
8211	43047538830000	LOCKED	OW	P	No
Operator	BILL BARRETT CORP		Surface Owner-APD	FOUR STAR RANCH	
Well Name	AURORA FEDERAL 15-23D-7-20		Unit	AURORA (DEEP)	
Field	BRENNAN BOTTOM		Type of Work	DRILL	
Location	SWSE 23 7S 20E S 275 FSL 2515 FEL GPS Coord (UTM) 616165E 4449688N				

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 reviewing and approving the proposed drilling, casing and cement programs.

Brad Hill
APD Evaluator

7/31/2013
Date / Time

Surface Statement of Basis

This proposed well pad is on fee surface with federal minerals. Mr. James Hereford d of the BLM was present to represent the mineral interests and Mr. David Yaeman, owner of the Four Star Ranch, was present as the surface owner. This well is placed in the southwest corner of a large irrigated farm field out of the way of the pivot irrigation system. There is a hay stack yard on the south of the location which must be moved and Mr. Yaeman expressed that he would like the stack yard fencing saved. Large truck access must be maintained in order to get to the stack yard to haul hay. As the stack yard will need to be moved, placement of the new yard was discussed and Mr. Eldredge of BBC requested that it be moved to the north of the location where the land is already flattened out rather than any other direction which would necessitate much more ground leveling. This seemed to satisfy surface owner David Yaeman. Also, there are beehives which must be moved to accommodate this well. Bill Barrett Corporation agreed to move both the beehives and stack yard to the satisfaction of Mr. Yaeman.

Due to very permeable soils this location must be bermed. Mr. Eldredge of BBC stated that a 20 mil liner will be used for this reserve pit. This appears to be a good site for placement of this well.

Richard Powell
Onsite Evaluator

7/10/2013
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 6/19/2013

API NO. ASSIGNED: 43047538830000

WELL NAME: AURORA FEDERAL 15-23D-7-20

OPERATOR: BILL BARRETT CORP (N2165)

PHONE NUMBER: 303 312-8115

CONTACT: Brady Riley

PROPOSED LOCATION: SWSE 23 070S 200E

Permit Tech Review:

SURFACE: 0275 FSL 2515 FEL

Engineering Review:

BOTTOM: 0696 FSL 2021 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.18955

LONGITUDE: -109.63536

UTM SURF EASTINGS: 616165.00

NORTHINGS: 4449688.00

FIELD NAME: BRENNAN BOTTOM

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU080689

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: 3 - Commingling - ddoucet
 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. HAZA
Division Director

Permit To Drill

Well Name: AURORA FEDERAL 15-23D-7-20
API Well Number: 43047538830000
Lease Number: UTU080689
Surface Owner: FEE (PRIVATE)
Approval Date: 3/20/2014

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

Commingle:

Administrative approval for commingling the production from the Wasatch formation and the Green River formation in this well is hereby granted. Appropriate information has been submitted to DOGM in accordance with R649-3-22. No written objections from owners were received by DOGM.

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: UTU080689
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 15-23D-7-20
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047538830000
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: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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: 5/1/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

Bill Barrett Corporation is requesting permission to revise the surface casing set depth for this well from 1500' to 1200'. Hole size will remain the same. Surface casing size will change from 9-5/8" to 8-5/8". Revised cement amounts will change to 170sx (lead) and 270sx (tail) and the production cement amount will change to 620sx (lead); Tail remains the same. See attached revised drilling plan for additional information.

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

Date: May 01, 2014

By: David K. Quist

NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 5/1/2014	

BILL BARRETT CORPORATION
DRILLING PLAN

Aurora Federal 15-23D-7-20 REVISED

SWSE, 275' FSL and 2515' FEL, Section 23, T7S-R20E, SLB & M (surface hole)

SWSE, 696' FSL and 2021' FEL, 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 – MD</u>	<u>Depth – TVD</u>
Green River	3,613'	3,546'
Mahogany	4,758'	4,673'
Lower Green River*	5,765'	5,680'
Douglas Creek	5,945'	5,860'
Black Shale	6,681'	6,596'
Castle Peak	6,862'	6,777'
Uteland Butte	7,076'	6,991'
Wasatch*	7,536'	7,451'
TD	7,585'	7,500'

*PROSPECTIVE PAY

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

Base of Useable Water = 316'

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 1200'	No pressure control required (may pre-set 9-5/8" with smaller rig)*
1200' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

*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 or K 55	ST&C	New
7 7/8"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

Bill Barrett Corporation
 Drilling Program
 Aurora Federal 15-23D-7-20
 Uintah County, Utah

5. Cementing Program

16" Conductor Casing	Grout
8 5/8" Surface Casing	Lead: 170 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft 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 @ 500'
5 1/2" Production Casing	Lead: 620 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 700' Tail: 270sx 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 @ 6181'

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 - 56	25 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

7. Testing, Logging and Core Programs

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

8. Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 3705 psi* and maximum anticipated surface pressure equals approximately 2055 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 15-23D-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: May 2013
Spud: May 2013
Duration: 5 days drilling time
6 days completion time

12. Appendix A

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

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



Bill Barrett Corporation

AURORA CEMENT VOLUMES

Well Name: Aurora Federal 15-23D-7-20 revised

Surface Hole Data:

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

Calculated Data:

Lead Volume:	505.6	ft 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
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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:	7,585'
Top of Cement:	700'
Top of Tail:	6,181'
OD of Hole:	7.875"
OD of Casing:	5.500"

Calculated Data:

Lead Volume:	1424.4	ft ³
Lead Fill:	5,481'	
Tail Volume:	364.9	ft ³
Tail Fill:	1,404'	

Cement Data:

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

Calculated # of Sacks:

# SK's Lead:	620
# SK's Tail:	270

Aurora Federal 15-23D-7-20 revised Proposed Cementing Program
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<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 - (6181' - 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: 5,481'
	Volume: 253.68 bbl
	Proposed Sacks: 620 sks
Tail Cement - (7585' - 6181')	
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: 6,181'
	Calculated Fill: 1,404'
	Volume: 64.99 bbl
	Proposed Sacks: 270 sks

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080689
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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)
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1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20
-----------------------------	--

2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047538830000
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3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8134 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 07.0S Range: 20.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/5/2014 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>

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

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

Accepted by the Utah Division of Oil, Gas and Mining
 June 17, 2014

Date: _____

By: David K. Quist

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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080689	
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 15-23D-7-20	
2. NAME OF OPERATOR: BILL BARRETT CORP		9. API NUMBER: 43047538830000	
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: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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: 7/15/2014 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
This well was spud on 7/15/2014 at 8:00 am by Triple A Drilling; Rig #TA 4037, Type Soilmec SR/30. Continuous drilling is planned to commence on 8/15/2014.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 16, 2014			
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst	
SIGNATURE N/A	DATE 7/16/2014		



United States Department of the Interior



BUREAU OF LAND MANAGEMENT

Utah State Office

440 West 200 South, Suite 500

Salt Lake City, UT 84101

<http://www.blm.gov/ut/st/en.html>

IN REPLY REFER TO:
3180 (UTU82456X)
UT-922000

RECEIVED

JUL 09 2014

JUL 7 2014

43-047-30539
43-047-52642
43-047-53883

Mr. Kevin Funk
Bill Barrett Corporation
1099 18th Street, Suite 2300
Denver, Colorado 80202

DIV. OF OIL, GAS & MINING

Re: Automatic Contraction
Aurora (Deep) Unit
Uintah County, Utah

Dear Mr. Funk:

Your letter received on May 1, 2014, describes the lands automatically eliminated effective November 11, 2013, from the Aurora (Deep) Unit Area, located in Uintah County, Utah, pursuant to Section 2(e) of the unit agreement and requests our concurrence. The lands you have described contain 12,522.73 acres more or less, and constitute all legal subdivisions, no parts of which are included in the Aurora (Deep) Participating Area "A". As a result of the automatic contraction, the unit is reduced to 1,920.00 acres.

The following Federal Leases are entirely eliminated from the unit area:

UTU 82707	UTU80580
UTU14219	UTU89145
UTU88141*	
UTU85993*	
UTU74417	
UTU74837	
UTU75242	
UTU75675	
UTU78445	
UTU79129	

*Indicates non-committed lease

The following Federal Leases are partially eliminated from the unit area.

UTU75092
UTU75093
UTU75241
UTU76488
UTU80689
UTU85591

You have complied with the requirements of Section 2(e), provided you promptly notify all interested parties.

If you have any questions, please contact Judy Nordstrom at (801) 539-4108.

Sincerely,



Roger L. Bankert
Chief, Branch of Minerals

Enclosure

cc: UDOGM
SITLA
ONRR w/Exhibit "B" (Attn: Jennifer Cortez)
BLM FOM - Vernal w/enclosure

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
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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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Attached is the July 2014 Drilling Activity for this well.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY August 05, 2014			
NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant	
SIGNATURE N/A	DATE 8/5/2014		

**Aurora 15-23D-7-20 7/14/2014 06:00 - 7/15/2014 06:00**

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

Aurora 15-23D-7-20 7/19/2014 12:00 - 7/19/2014 18:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	6.00	18:00	12	RUN CASING & CEMENT	RU Pro Petro. Held pre job safety meeting. Pump 40 bbl FW spacer, 40 bbl gel spacer, 180sx lead cmt @11ppg, 122.4 bbls, 350 sx tail cmt @ 15.8 ppg, 71.6 bbls, drop plug, displace w/73 bbls FW. Bump plug t/700 psi, bled off float held. RD cmtrs.

Aurora 15-23D-7-20 7/24/2014 06:00 - 7/25/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	1	RIGUP & TEARDOWN	MIRU RT'S, INSTALL MAST & RAISE.
17:00	7.00	00:00	14	NIPPLE UP B.O.P	NU Bope & flow line.
00:00	4.00	04:00	15	TEST B.O.P	Held pre job safety meeting w/tester. Test lower Kelly, Upper Kelly, safety valve, Inside BOP, pipe rams, inside valves, blind rams, kill line, HCR, manifold valves t/5000 psig f/10 minutes. Test annular t/1500 psig, test surface casing t/1500 psig f/30 minutes. Chokes tested t/500 psig. RD tester.
04:00	2.00	06:00	20	DIRECTIONAL WORK	Install wear bushing. PU BHA.

Aurora 15-23D-7-20 7/25/2014 06:00 - 7/26/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	20	DIRECTIONAL WORK	PU BHA, scribe tools, install MWD, continue PU BHA.
09:00	4.00	13:00	5	COND MUD & CIRC	Tih, tag cmt @ 1100', drl shoe track & 20' open hole t/1266', condition drlg mud f/EMW test, spot LCM pill on btm.
13:00	1.50	14:30	21	OPEN	Peform EMW test t/10.5 ppg f/10 minutes, held 136 psi. Bled off. Condition drlg mud, 8.5 w/40 visc, fluid loss @ 8.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service
15:00	15.00	06:00	2	DRILL ACTUAL	Directional drl tangent section f/1266' t/2936. IROP 120-280 fph, 60 rpm, 17k wob, 470 gpm, diff 200-30 psi, torque 8800 ft/lbs.

Aurora 15-23D-7-20 7/26/2014 06:00 - 7/27/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	Directional drl tangent section f/2936' t/3732'. IROP 78-240 fph, 60 rpm, 480 gpm, 17k wob.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service
15:00	8.50	23:30	2	DRILL ACTUAL	Directional drl tangent section f/3732' t/4327'. IROP 70-143 fph, 60-70 rpm, 480 gpm, 17-25k wob.
23:30	0.50	00:00	20	DIRECTIONAL WORK	Downlink MWD
00:00	6.00	06:00	2	DRILL ACTUAL	Directional drl tangent section f/4327' t/4666', IROP 60-125 fph rotating 60-79, sliding @30-45 fph, 480 gpm, 25k wob.

Aurora 15-23D-7-20 7/27/2014 06:00 - 7/28/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Directional drl tangent and start drop @ 5100', drl t/5172'. IROP 45-128' fph, 15-25k wob, 60-70 rpm, 480-510 gpm, ave pr 44 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	12.00	06:00	2	DRILL ACTUAL	Directional drl drop and vertical section f/ 5172' t/5800'. IROP 40-190 fph, 25k wob, 60-70 rpm, 500 gpm, 52 fph ave.

Aurora 15-23D-7-20 7/28/2014 06:00 - 7/29/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Directional drl f/5800' t/5970'. IROP 40-140 fph, 480 gpm, 60-70 rpm, 20-25k wob.
10:00	1.00	11:00	21	OPEN	Ream tight hole, lose returns, unable to circulate while rotating, work tight hole, free after one hour.
11:00	5.50	16:30	2	DRILL ACTUAL	Directional drl f/5970' t/6310', ave 61 fph.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service
17:00	11.00	04:00	2	DRILL ACTUAL	Directional drl vertical section f/6310' t/6859', ave 49 fph.
04:00	1.00	05:00	21	OPEN	PU t/ream after connection maxed out on torque unable to go up or down, able to circulate, work stuck drill string for one hour, popped free, lay down one jt in order to work reamers, third time we have been unable to rotate, circulate or move drill stem on this hole, cuttings and fines normal across shakers.
05:00	1.00	06:00	2	DRILL ACTUAL	Directional drl vertical section f/6859' t/6900'. IROP 35-140 fph, 19k wob, 480 gpm, 50-60 rpm, 7-11k ft/lbs rotary torque.

Aurora 15-23D-7-20 7/29/2014 06:00 - 7/30/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	Directional drl vertical section f/6900' t/6943'.
07:00	1.00	08:00	5	COND MUD & CIRC	Ream connection, pulling tight, torque maxed out @12200 ft/lbs on top drive, able to circulate but no pipe movement up or down. Work string free, circ btms up, shakers clean, no signs of caving or heaving.
08:00	8.00	16:00	6	TRIPS	Circulate out 10 jts, pulling tight fist 2 jts, pull 5 jts no pumps or top drive and no drag. Flow check, no flow, pump dry job. Tooh, flow check @ 4800', no flow, tooh t/ casing shoe flow check no flow, Tooh.
16:00	2.00	18:00	20	DIRECTIONAL WORK	LD 3 pt reamers, scribe tools. Wait on electrical storm to pass
18:00	7.00	01:00	6	TRIPS	Tih, ck MM @ 1300', tih w/no issues, wash t/btm w/no fill.
01:00	5.00	06:00	2	DRILL ACTUAL	Directional drl vertical section f/6943' t/7101, no issues reaming w/3 pt reamers on the bank.

CONFIDENTIAL

BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# CAPSTAR 328

Submitted By Jeff Johnson Phone Number 303-353-5425

Well Name/Number AURORA FEDERAL 15-23D-7-20

~~Qtr/Qtr~~ NENW Section 23 Township 7S Range 20E *QTR/QTR SWSE*

Lease Serial Number UTU80689

API Number 430475388300X1

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

Date/Time _____ AM PM

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

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

Date/Time 7/31/2014 11:00 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 _____

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: UTU080689																														
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:																														
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20																														
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047538830000																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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																																
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2014	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; border: none;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; border: none;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; border: none;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="border: none;"><input type="checkbox"/> CHANGE TUBING</td> <td style="border: none;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="border: none;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="border: none;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> DEEPEN</td> <td style="border: none;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="border: none;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="border: none;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="border: none;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="border: none;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="border: none;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="border: none;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="border: none;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> TUBING REPAIR</td> <td style="border: none;"><input type="checkbox"/> VENT OR FLARE</td> <td style="border: none;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="border: none;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="border: none;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="border: none;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="border: none;"><input type="checkbox"/> OTHER</td> <td style="border: none;">OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Attached is the August 2014 Drilling Activity for this well.																																
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 03, 2014																																
NAME (PLEASE PRINT) Christina Hirtler	PHONE NUMBER 303 312-8597	TITLE Administrative Assistant																														
SIGNATURE N/A	DATE 9/3/2014																															

**Aurora 15-23D-7-20 8/1/2014 06:00 - 8/2/2014 06:00**

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	11.50	17:30	12	RUN CASING & CEMENT	Rih w/production casing, wash thru bridges/ledges fr/7250' t/btm, full returns no losses, reciprocate casing one full circulation, land in mandrel, circulate btms up, BGG 300 units. Yield point 10 on drlg mud.	
17:30	4.00	21:30	12	RUN CASING & CEMENT	Held pre job safety meeting w/Halliburton. RU cmt head. Pump 30 bbl Tuned spacer @ 10 ppg, 10 bbls FW, 20 bbls Super flush @ 10 ppg, 10 bbl FW spacer. Mix & pump 400 sx lead cmt @ 11ppg, 615 sx tail cmt @ 13.5 ppg. Drop plug, displace w/172.9 bbls FW w/Biocide and Claweb. Bump plug t/1700 psig, 500 over differential. Held for 5 minutes, bled off, floats held. Lost partial returns @95 bbls into displacement, super flush t/surface, slowed t/2 bpm f/10 minutes, increased t/4 bpm gained partial returns back @130 bbls gone, lost 100% returns w/152 bbls displacement away. RD Halliburton.	
21:30	6.00	03:30	21	OPEN	Cameron install pack off in csg head. ND Bope. Clean pits. Release Rotary tools t/7-12D-47 BTR.	
03:30	2.50	06:00			Wait on production department.	

Aurora 15-23D-7-20 8/3/2014 06:00 - 8/4/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	4.00	10:00	GOP	General Operations	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.	
10:00	20.00	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL	

Aurora 15-23D-7-20 8/6/2014 06:00 - 8/7/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	9.00	15:00	LOGG	Logging	HSM MIRU HES LOGGING. RIH W/ GR/JB TO TAG FILL AT 7397'. DRLG SHOWS FC AT 7452' (95' FILL). RUN RMT/CBL-M LOG. SHOWS GOOD CMT TD TO 6000' RATTY CMT 6000'-5800' GOOD CMT 5800'-4050' FAIR CMT 4050'-2990. TOC EST AT 2990'. SHORT JOINTS AT 5578'-5601' & 6694'-6717' CBL NOT RUN UNDER PRESSURE.	
15:00	1.00	16:00	SRIG	Rig Up/Down	RDMO OUT HES	
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL	

Aurora 15-23D-7-20 8/20/2014 06:00 - 8/21/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	4.00	10:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 6200 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.	
10:00	20.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL	

Aurora 15-23D-7-20 8/28/2014 06:00 - 8/29/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	GOP	General Operations	HEAT FRAC LINE.	

Aurora 15-23D-7-20 8/29/2014 06:00 - 8/30/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	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.	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
07:00	3.50	10:30	SRIG	Rig Up/Down	MIRU CUTTERS WITH BRAND NEW 5" 10K LUBE.
10:30	1.00	11:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 0 PSI. RIH AND CORRELATE TO SJ AT 6694'-6717'. RIH PULL UP & PERF UTELAND BUTTE FORM 7010'-7355' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
11:30	4.00	15:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

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: UTU080689
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20	
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047538830000	
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: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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: 8/30/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
		<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
THIS WELL HAD FIRST PRODUCTION ON 8/30/14 AND FIRST GAS SALES ON 9/1/2014		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 03, 2014		
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/2/2014	

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: UTU080689	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047538830000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/30/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
Attached is the September 2014 Drilling Activity for this well.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY October 06, 2014			
NAME (PLEASE PRINT) Christina Hirtler		PHONE NUMBER 303 312-8597	TITLE Administrative Assistant
SIGNATURE N/A		DATE 10/2/2014	

**Aurora 15-23D-7-20 9/2/2014 06:00 - 9/3/2014 06:00**

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING TO TREATER WITH 125 PSI. PUMP 100 BBLs HOT WTR DOWN CSG.	
07:00	0.50	07:30	RMOV	Rig Move	ROAD RIG FROM 2-15-3-2.	
07:30	1.00	08:30	SRIG	Rig Up/Down	RUSU. LAY FLOOR OVER	
08:30	2.00	10:30	WLWK	Wireline	MIRU CUTTERS. RIH AND SET KILL PLUG AT 5710'. BLEED OFF AS POOH. RDMO CUTTERS. SPOT CATWALK AND PIPE RACKS. UNLOAD 240-JTS 2-7/8" L-80 TBG.	
10:30	2.00	12:30	BOPI	Install BOP's	RAISE FLOOR. ND FRAC VALVES. NU 7" 5K BOP AND HYDRIL. RU FLOOR.	
12:30	2.50	15:00	RUTB	Run Tubing	MU AND RIHW/ 4-3/4" HURRICANE MILL, BIT SUB (BFF), 1-JT TBG, PSN. HOOK UP HOSE AND PUMP THRU BIT SUB. RIH AS MEAS AND PU 178-JTS TBG.	
15:00	1.00	16:00	SRIG	Rig Up/Down	RU DRLG EQUIP. FILL TBG W/ 35-BBLs. PRESSURE TO 2000 PSI BUT UNABLE TO PUMP THRU TBG.	
16:00	2.00	18:00	PULT	Pull Tubing	DROP BAR AND SHEAR PINS. POOH W/ TBG. LAY JT DOWN WITH BIT SUB. NOW ABLE TO PUMP THRU BIT SUB. REPLACE DRAIN PLUGS	
18:00	1.00	19:00	RUTB	Run Tubing	RIH W/ MILL AND 131-JTS 2-7/8" TBG. SDFN W/ EOT AT 4168'.	
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.	

Aurora 15-23D-7-20 9/3/2014 06:00 - 9/4/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.	
07:00	0.75	07:45	PTST	Pressure Test	PUMP THRU TBG AND BIT SUB. PRES TEST BOP AND LINES TO 2000 PSI. GOOD.	
07:45	0.75	08:30	RUTB	Run Tubing	CONT RIH W/ TBG TO PLUGS. RU PWR SWIVEL.	
08:30	5.00	13:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS (PUMP 2 BPM, RETURN 2 BPM) KILL PLUG AT 5710'. 0' FILL. D/O IN 15 MIN. FCP 100 PSI ON 26/64" CHOKE CFP #1 AT 6226'. 50' FILL. D/O IN 15 MIN. FCP 50 PSI ON 20/64" CHOKE. CFP#2 AT 6640'. 45' FILL. D/O IN 10 MIN. FCP 25 PSI ON 48/64" CHOKE. CFP #3 AT 6993'. 0' FILL. D/O IN 10 MIN. FCP 25 PSI ON 48/64" CHOKE. PBDT- C/O 20' FILL TO FC AT 7452'. D/O 30' CMT TO 7482'. CIRC CLEAN. RD PWR SWIVEL.	
13:30	1.00	14:30	PULT	Pull Tubing	POOH AS LD 8-JTS TBG, CONT POOH W/ 46-JTS. SDFN W/ MILL ABOVE PERFS AT 5764'. TURN OVER TO FBC AND PRODUCTION FOR NIGHT. FLOWING 25 PSI ON 48/64 TO FB TANK. TURN TO TREATER.	
14:30	15.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.	

Aurora 15-23D-7-20 9/4/2014 06:00 - 9/5/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL HAS SLIGHT FLOW WITH 25 PSI.	
07:00	2.00	09:00	WKLL	Kill Well	PUMP 150 BBLs WTR DOWN TBG AS CIRC OUT OIL AND GAS. WELL DIED.	
09:00	2.00	11:00	PULT	Pull Tubing	DROP BAR AND SHEAR DRAIN SUB. POOH W/ TBG. LD BIT SUB AND MILL.	

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	1.50	12:30	RUTB	Run Tubing	MU PROD BHA AND RIH W/ TBG. TBG DETAIL KB 13.00 HANGER .85 223-JTS 2-7/8" L-80 7081.21 5-1/2" 1/4 SET TAC 2.71 3-JTS 2-7/8" L-80 95.24 PSN 1.10 4' TBG SUB 4.15 3-1/2" DESANDER 17.10 5-JTS 2-7/8" L-80 158.64 BULL PLUG .75 TAC AT 7097.77', PSN AT 7194.11', EOT AT 7374.75'
12:30	1.00	13:30	BOPR	Remove BOP's	RD FLOOR. ND BOP. SET TAC. LAND HANGER IN 20K TENSION.
13:30	1.00	14:30	HOIL	Hot Oil Well	X-O FOR RODS. FLUSH TBG W/ 70 BBLS.
14:30	3.00	17:30	RURP	Run Rods & Pump	SPOT AND PREP RODS. PU AND PRIME PUMP. BEGIN RIH W/ PMP AS PU RODS. SDFN
17:30	0.50	18:00	GOP	General Operations	RACK OUT RIG PUMP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

Aurora 15-23D-7-20 9/5/2014 06:00 - 9/6/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.00	08:00	RURP	Run Rods & Pump	CONT RIH W/ PMP AS PU RODS. SPACE OUT AND SEAT PUMP. ROD DETAIL 1-1/2" X 30' POLISH ROD 2', 6', 8' X 7/8" PONY RODS 100) 7/8" D 8 PER 153) 3/4" D 8 PER 32) 1" D 4 PER SHEAR CPLG 25-175-RHBC-20-5-21-24' PUMP
08:00	0.50	08:30	PTST	Pressure Test	FILL TBG W/ 2 BBLS AND STROKE TEST PUMP TO 800 PSI. GOOD.
08:30	1.50	10:00	SRIG	Rig Up/Down	HANG HEAD AND RODS ON. RDSU. CLEAN LOCATION. TURN OVER TO PRODUCTION. NEED TO MOVE TO #2 HOLE AND ALIGN UNIT W/ WELL.
10:00	3.00	13:00	RMOV	Rig Move	ROAD RIG TO 12-15-6-19. RUSU. SDFN
13:00	17.00	06:00	GOP	General Operations	WELL TURNED OVER TO PRODUCTION

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU80689

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

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

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

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

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 23 T7S R20E Mer UBM
At surface **SWSE 275FSL 2515FEL 40.190681 N Lat, 109.633580 W Lon**
At top prod interval reported below **SWSE 720FSL 2031FEL**
At total depth **SWSE 679FSL 2010FEL**

6. If Indian, Allottee or Tribe Name _____

7. Unit or CA Agreement Name and No.
UTU82456X

8. Lease Name and Well No.
AURORA FEDERAL 15-23D-7-20

9. API Well No. **43-047-53883**

10. Field and Pool, or Exploratory
UNDESIGNATED

11. Sec., T., R., M., or Block and Survey or Area **Sec 23 T7S R20E Mer UBM**

12. County or Parish **UINTAH** 13. State **UT**

14. Date Spudded **07/15/2014** 15. Date T.D. Reached **07/31/2014** 16. Date Completed D & A Ready to Prod. **08/30/2014**

17. Elevations (DF, KB, RT, GL)*
4792 GL

18. Total Depth: MD **7560** TVD **7507** 19. Plug Back T.D.: MD **7453** TVD **7400** 20. Depth Bridge Plug Set: MD **MD** TVD **TVD**

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

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

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24.000	16.000 COND	84.0		80	80				
12.250	8.625 J55	24.0		1240	1233	530	194		
7.875	5.500 N-80	17.0		7560	7542	1015	326	3090	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	7375							

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	5808	7355	5808 TO 7355	0.380	171	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
5808 TO 7355	GREEN RIVER SEE STAGES 1-4

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/30/2014	09/10/2014	24	→	139.0	72.0	292.0	30.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
8/64	SI 200	35.0	→	139	72	292	518	POW	

28a. Production - Interval B

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

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

ELECTRONIC SUBMISSION #266881 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

28b. Production - Interval C

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

28c. Production - Interval D

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

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

30. Summary of Porous Zones (Include Aquifers):

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

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				GREEN RIVER	3613
				MAHOGANY	4746
				TGR3	5806
				DOUGLAS CREEK	5937
				BLACK SHALE FACIES	6670
				CASTLE PEAK	6750
				UTELAND BUTTE	7008
				WASATCH	7637

32. Additional remarks (include plugging procedure):

TOC was calculated by CBL, Conductor was cemented with grout. Attaches is the treatment data and logs. First gas was on 9/1/2014, first oil sales 9/11/2014.

33. Circle enclosed attachments:

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

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

**Electronic Submission #266881 Verified by the BLM Well Information System.
For BILL BARRETT CORPORATION, sent to the Vernal**

Name (please print) CHRISTINA HIRTLER Title PERMIT ANALYST

Signature (Electronic Submission) Date 09/29/2014

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

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: Sep. 29, 2014

Aurora 15-23D-7-20 Report Continued*

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)				
AMOUNT AND TYPE OF MATERIAL				
<u>Stage</u>	<u>bbls Slurry</u>	<u>lbs Common White 100 Mesh Sand</u>	<u>lbs 20/40 Premium White</u>	<u>gal 15% HCl Acid</u>
1	3069	13750	144300	4400
2	3116	13750	145800	3900
3	2971	13750	147000	3900
4	3152	16070	147460	3400

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

**Aurora 15-23D-7-20 7/14/2014 06:00 - 7/15/2014 06:00**

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com

Aurora 15-23D-7-20 7/19/2014 12:00 - 7/19/2014 18:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	6.00	18:00	12	RUN CASING & CEMENT	RU Pro Petro. Held pre job safety meeting. Pump 40 bbl FW spacer, 40 bbl gel spacer, 180sx lead cmt @11ppg, 122.4 bbls, 350 sx tail cmt @ 15.8 ppg, 71.6 bbls, drop plug, displace w/73 bbls FW. Bump plug t/700 psi, bled off float held. RD cmtrs.

Aurora 15-23D-7-20 7/24/2014 06:00 - 7/25/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.00	17:00	1	RIGUP & TEARDOWN	MIRU RT'S, INSTALL MAST & RAISE.
17:00	7.00	00:00	14	NIPPLE UP B.O.P	NU Bope & flow line.
00:00	4.00	04:00	15	TEST B.O.P	Held pre job safety meeting w/tester. Test lower Kelly, Upper Kelly, safety valve, Inside BOP, pipe rams, inside valves, blind rams, kill line, HCR, manifold valves t/5000 psig f/10 minutes. Test annular t/1500 psig, test surface casing t/1500 psig f/30 minutes. Chokes tested t/500 psig. RD tester.
04:00	2.00	06:00	20	DIRECTIONAL WORK	Install wear bushing. PU BHA.

Aurora 15-23D-7-20 7/25/2014 06:00 - 7/26/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	20	DIRECTIONAL WORK	PU BHA, scribe tools, install MWD, continue PU BHA.
09:00	4.00	13:00	5	COND MUD & CIRC	Tih, tag cmt @ 1100', drl shoe track & 20' open hole t/1266', condition drlg mud f/EMW test, spot LCM pill on btm.
13:00	1.50	14:30	21	OPEN	Peform EMW test t/10.5 ppg f/10 minutes, held 136 psi. Bled off. Condition drlg mud, 8.5 w/40 visc, fluid loss @ 8.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service
15:00	15.00	06:00	2	DRILL ACTUAL	Directional drl tangent section f/1266' t/2936. IROP 120-280 fph, 60 rpm, 17k wob, 470 gpm, diff 200-30 psi, torque 8800 ft/lbs.

Aurora 15-23D-7-20 7/26/2014 06:00 - 7/27/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.50	14:30	2	DRILL ACTUAL	Directional drl tangent section f/2936' t/3732'. IROP 78-240 fph, 60 rpm, 480 gpm, 17k wob.
14:30	0.50	15:00	7	LUBRICATE RIG	Rig service
15:00	8.50	23:30	2	DRILL ACTUAL	Directional drl tangent section f/3732' t/4327'. IROP 70-143 fph, 60-70 rpm, 480 gpm, 17-25k wob.
23:30	0.50	00:00	20	DIRECTIONAL WORK	Downlink MWD
00:00	6.00	06:00	2	DRILL ACTUAL	Directional drl tangent section f/4327' t/4666', IROP 60-125 fph rotating 60-79, sliding @30-45 fph, 480 gpm, 25k wob.

Aurora 15-23D-7-20 7/27/2014 06:00 - 7/28/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Directional drl tangent and start drop @ 5100', drl t/5172'. IROP 45-128' fph, 15-25k wob, 60-70 rpm, 480-510 gpm, ave pr 44 fph.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	12.00	06:00	2	DRILL ACTUAL	Directional drl drop and vertical section f/ 5172' t/5800'. IROP 40-190 fph, 25k wob, 60-70 rpm, 500 gpm, 52 fph ave.

Aurora 15-23D-7-20 7/28/2014 06:00 - 7/29/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	2	DRILL ACTUAL	Directional drl f/5800' t/5970'. IROP 40-140 fph, 480 gpm, 60-70 rpm, 20-25k wob.
10:00	1.00	11:00	21	OPEN	Ream tight hole, lose returns, unable to circulate while rotating, work tight hole, free after one hour.
11:00	5.50	16:30	2	DRILL ACTUAL	Directional drl f/5970' t/6310', ave 61 fph.
16:30	0.50	17:00	7	LUBRICATE RIG	Rig service
17:00	11.00	04:00	2	DRILL ACTUAL	Directional drl vertical section f/6310' t/6859', ave 49 fph.
04:00	1.00	05:00	21	OPEN	PU t/ream after connection maxed out on torque unable to go up or down, able to circulate, work stuck drill string for one hour, popped free, lay down one jt in order to work reamers, third time we have been unable to rotate, circulate or move drill stem on this hole, cuttings and fines normal across shakers.
05:00	1.00	06:00	2	DRILL ACTUAL	Directional drl vertical section f/6859' t/6900'. IROP 35-140 fph, 19k wob, 480 gpm, 50-60 rpm, 7-11k ft/lbs rotary torque.

Aurora 15-23D-7-20 7/29/2014 06:00 - 7/30/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	Directional drl vertical section f/6900' t/6943'.
07:00	1.00	08:00	5	COND MUD & CIRC	Ream connection, pulling tight, torque maxed out @ 12200 ft/lbs on top drive, able to circulate but no pipe movement up or down. Work string free, circ btms up, shakers clean, no signs of caving or heaving.
08:00	8.00	16:00	6	TRIPS	Circulate out 10 jts, pulling tight fist 2 jts, pull 5 jts no pumps or top drive and no drag. Flow check, no flow, pump dry job. Tooh, flow check @ 4800', no flow, tooh t/ casing shoe flow check no flow, Tooh.
16:00	2.00	18:00	20	DIRECTIONAL WORK	LD 3 pt reamers, scribe tools. Wait on electrical storm to pass
18:00	7.00	01:00	6	TRIPS	Tih, ck MM @ 1300', tih w/no issues, wash t/btm w/no fill.
01:00	5.00	06:00	2	DRILL ACTUAL	Directional drl vertical section f/6943' t/7101, no issues reaming w/3 pt reamers on the bank.

Aurora 15-23D-7-20 7/30/2014 06:00 - 7/31/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	10.00	16:00	2	DRILL ACTUAL	Directional drl f/7101' t/7307', samples 90% coarse sandstone & chert, ave rop 20.6'.
16:00	0.50	16:30	7	LUBRICATE RIG	Rig service
16:30	11.50	04:00	2	DRILL ACTUAL	Directional drl vertical section t/CP/TD @ 4:00 a.m 7/31/2014. Hole seeping @ every small drlg brk, rop f/9-90 fph, lost 164 bbls in f/7330' t/7560', no show. Send LCM sweep & add LCM t/actives. Rop ave 21.3 fph, samples same, 90% sandstone.
04:00	0.50	04:30	5	COND MUD & CIRC	Heal losses w/LCM, circ btms up.
04:30	1.50	06:00	6	TRIPS	Pump bit out of hole f/wiper trip, top drive stalled out @ 12k back reaming out, use pumps on first three jts laid down. Tooh t/6900' to wipe new hole after trip to lay down 3 pt reamers.

Aurora 15-23D-7-20 7/31/2014 06:00 - 8/1/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	5	COND MUD & CIRC	Wiper trip t/btm, tight @ 7303', C&C, btms up, no down gas, visc 60.
08:30	1.00	09:30	6	TRIPS	Pull t/7200' wet, tight @7303'. 30 minute flow check, no flow, pumped dry job.
09:30	7.00	16:30	6	TRIPS	Tooh, flow check @ 5993', hole not taking fluid, suspect swabbing w/mud ring, no flow. Tooh, starting taking fluid @ 5100', flow check @ casing shoe, no flow.
16:30	1.00	17:30	20	DIRECTIONAL WORK	LD MWD & MM, brk out bit.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	7.50	01:00	11	WIRELINE LOGS	Held pre job safety meeting w/wire line crew. RU Weatherford for open hole logs. Rih w/quad combo, tight @ 7300', work thru tight spot, log out t/7200', resistivity not recording, correct error, unable to drop below 7250'. Log out, contact BBC geologist f/permission t/continue logging. Log out t/surface casing shoe. RD wireline. Email caliper log t/Halliburton
01:00	1.00	02:00	21	OPEN	Pull wear bushing RU floor t/run casing.
02:00	4.00	06:00	12	RUN CASING & CEMENT	PU FS, 2 shoe jts, FC, rih w/production casing, Shoe depth @ 1795', circulating btms up.

Aurora 15-23D-7-20 8/1/2014 06:00 - 8/2/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	12	RUN CASING & CEMENT	Rih w/production casing, wash thru bridges/ledges fr/7250' t/btm, full returns no losses, reciprocate casing one full circulation, land in mandrel, circulate btms up, BGG 300 units. Yield point 10 on drlg mud.
17:30	4.00	21:30	12	RUN CASING & CEMENT	Held pre job safety meeting w/Halliburton. RU cmt head. Pump 30 bbl Tuned spacer @ 10 ppg, 10 bbls FW, 20 bbls Super flush @ 10 ppg, 10 bbl FW spacer. Mix & pump 400 sx lead cmt @ 11ppg, 615 sx tail cmt @ 13.5 ppg. Drop plug, displace w/172.9 bbls FW w/Biocide and Claweb. Bump plug t/1700 psig, 500 over differential. Held for 5 minutes, bled off, floats held. Lost partial returns @95 bbls into displacement, super flush t/surface, slowed t/2 bpm f/10 minutes, increased t/4 bpm gained partial returns back @130 bbls gone, lost 100% returns w/152 bbls displacement away. RD Halliburton.
21:30	6.00	03:30	21	OPEN	Cameron install pack off in csg head. ND Bope. Clean pits. Release Rotary tools t/7-12D-47 BTR.
03:30	2.50	06:00			Wait on production department.

Aurora 15-23D-7-20 8/3/2014 06:00 - 8/4/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	GOP	General Operations	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.
10:00	20.00	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL

Aurora 15-23D-7-20 8/6/2014 06:00 - 8/7/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	LOGG	Logging	HSM MIRU HES LOGGING. RIH W/ GR/JB TO TAG FILL AT 7397'. DRLG SHOWS FC AT 7452' (95' FILL). RUN RMT/CBL-M LOG. SHOWS GOOD CMT TD TO 6000' RATTY CMT 6000'-5800' GOOD CMT 5800'-4050' FAIR CMT 4050'-2990. TOC EST AT 2990'. SHORT JOINTS AT 5578'-5601' & 6694'-6717' CBL NOT RUN UNDER PRESSURE.
15:00	1.00	16:00	SRIG	Rig Up/Down	RDMO OUT HES
16:00	14.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

Aurora 15-23D-7-20 8/20/2014 06:00 - 8/21/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.00	10:00	GOP	General Operations	HSM. CHECK PRESSURE. ND 7" NIGHT CAP. NU 7" 5K X 5" 10K FRAC MANDREL. NU 5" 10K FRAC VALVES. PRES TEST CSG TO 6200 PSI, TEST FB EQUIP TO 2500/4500 PSI. ALL TEST GOOD. SECURE WELL.
10:00	20.00	06:00	LOCL	Lock Wellhead & Secure	LOCK & SECURE WELL

Aurora 15-23D-7-20 8/28/2014 06:00 - 8/29/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

**Time Log**

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

Aurora 15-23D-7-20 8/29/2014 06:00 - 8/30/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	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	3.50	10:30	SRIG	Rig Up/Down	MIRU CUTTERS WITH BRAND NEW 5" 10K LUBE.
10:30	1.00	11:30	PFRT	Perforating	PU PERF GUNS FOR STG 1. OPEN WITH 0 PSI. RIH AND CORRELATE TO SJ AT 6694'-6717'. RIH PULL UP & PERF UTELAND BUTTE FORM 7010'-7355' WITH 45 HOLES IN 15' NET. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND SECURE WELL.
11:30	4.00	15:30	SRIG	Rig Up/Down	MIRU HES FRAC FLEET.
15:30	14.50	06:00	LOCL	Lock Wellhead & Secure	WELL SECURE.

Aurora 15-23D-7-20 8/30/2014 06:00 - 8/31/2014 06:00

API	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43-047-53883	UT	Uintah	Aurora	PRODUCING	7,560.0	Drilling & Completion

Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.01	06:00	SMTG	Safety Meeting	AOL 04:30. PRIME UP CHEMS AND PUMPS. QC FLUIDS. PRESSURE TEST. HSM-SMOKING, RED ZONE, PPE, PERF GUNS, OVER HEAD LOADS PICKING UP AND LAYING DOWN GUNS MUSTER AREA.
06:00	1.24	07:15	FRAC	Frac. Job	FRAC STG 1 PRESSURE TEST LINES TO 9500 PSI. OPEN WELL W/ 0 PSI AT 6:00 AM BREAK DOWN 3060 PSI AT 9.8 BPM. PMP 3400 GAL 15% HCL ACID W/ 90 BIO BALLS FOR DIVERSION. 10.1 BPM AT 1470 PSI. FLUSH W/ 6845 GAL. 30 BPM AT 2150 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.4 BPM AT 2607 PSI. ISDP 1054 . FG .59. PERFS OPEN 30/45 ISIP 1227, FG .61, MR 70.7 BPM, AR 70.1 BPM, MP 3343 PSI, AP 2197 PSI 100 MESH 13,750 lbs. 0.25 & 0.5 ppg 20/40 WHITE 154,300 lbs 2.0, 2.15-5 RAMP, 5 ppg SLK WTR 1248 BBL, 20# HYBOR G (16) 1273 BBL, BTR 2614 BBL (STAGE SCORE 10) SHUT IN AND TURN OVER TO CUTTERS.
07:15	1.50	08:45	PFRT	Perforating	PERF STG #2- PU HES CFP 5 1/2" 10K CFP AND GUNS FOR STAGE 2 INTO LUBE AND EQUALIZE 750 PSI. OPEN WELL AND RIH. CORRELATE TO SHORT JOINTS @ 6694'-6717'. RIH SET 5 1/2" CFP AT 6993' WITH 700 PSI. PULL UP AND PERF BLACK SHALE & CASTLE PEAK 6673'-6967' WITH 42 HOLES IN 14' NET. ENDING PRESSURE 600 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND TURN WELL OVER TO HES.



Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
08:45	1.25	10:00	FRAC	Frac. Job	<p>FRAC STG 2 PRESSURE TEST LINES TO 7200 PSI. OPEN WELL W/ 588 PSI AT 8:52 AM BREAK DOWN 2187 PSI AT 9.4 BPM. PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 9.8 BPM AT 1495 PSI. FLUSH W/ 6516 GAL. 30 BPM AT 2010 PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 69.8 BPM AT 4264 PSI. ISDP 1647 . FG .68. PERFS OPEN 29/42</p> <p>ISIP 1853 , FG .71, MR 70.7 BPM, AR 69.6 BPM, MP 3517 PSI, AP 2832 PSI 100 MESH 13,750 lbs. 0.25 & 0.5 ppg 20/40 WHITE 155,800 lbs 2.0, 2.15-5 RAMP, 5 ppg SLK WTR 1315 BBL, 20# HYBOR G (16) 1272 BBL, BTR 2680 BBLs</p> <p>(STAGE SCORE 10)</p> <p>SHUT IN AND TURN OVER TO CUTTERS.</p>
10:00	1.24	11:14	PFRT	Perforating	<p>PERF STG #3- PU HES CFP 5 1/2" 10K CFP AND GUNS FOR STAGE 3 INTO LUBE AND EQUALIZE 1420 PSI. OPEN WELL AND RIH. CORRELATE TO SHORT JOINTS @ 5578'-5601' . RIH SET 5 1/2" CFP AT 6640' WITH 1350 PSI. PULL UP AND PERF BLACK SHALE & CASTLE PEAK 6243'-6624' WITH 42 HOLES IN 14' NET. ENDING PRESSURE 1200 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND TURN WELL OVER TO HES.</p>
11:14	1.26	12:30	FRAC	Frac. Job	<p>FRAC STG 3 PRESSURE TEST LINES TO 7700 PSI. OPEN WELL W/ 1240 PSI AT 11:25 AM BREAK DOWN 1823 PSI AT 9.3 BPM. PMP 3400 GAL 15% HCL ACID W/ 84 BIO BALLS FOR DIVERSION. 10.1 BPM AT 1238 PSI. FLUSH W/ 6096 GAL. 30 BPM AT PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL.</p> <p>STAGE FR PAD. STABLE RATE OF 71.5 BPM AT 3489 PSI. ISDP 1477 . FG .67. PERFS OPEN 28/42</p> <p>ISIP 1813 , FG .72, MR 71.7 BPM, AR 70 BPM, MP 3219 PSI, AP 2649 PSI 100 MESH 13,750 lbs. 0.25 & 0.5 ppg 20/40 WHITE 147,00 lbs 2.0, 2.15-5 RAMP, 5 ppg SLK WTR 1223 BBL, 20# HYBOR G (16) 1209 BBL, BTR 2536 BBLs</p> <p>(STAGE SCORE 10)</p> <p>SHUT IN AND TURN OVER TO CUTTERS.</p>
12:30	1.25	13:45	PFRT	Perforating	<p>PERF STG #4- PU HES CFP 5 1/2" 10K CFP AND GUNS FOR STAGE 4 INTO LUBE AND EQUALIZE 1500 PSI. OPEN WELL AND RIH. CORRELATE TO SHORT JOINTS @ 5578'-5601' . RIH SET 5 1/2" CFP AT 6226' WITH 1400 PSI. PULL UP AND PERF TGR3 5808'-6206' WITH 42 HOLES IN 14' NET. ENDING PRESSURE 1230 PSI. POOH AND VERIFY ALL GUNS SHOT. SHUT IN AND TURN WELL OVER TO HES.</p>

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
13:45	1.26	15:00	FRAC	Frac. Job	FRAC STG 4 PRESSURE TEST LINES TO 7500 PSI. OPEN WELL W/ 1250 PSI AT 13:50 BREAK DOWN 3796 PSI AT 9.5 BPM. PMP 3900 GAL 15% HCL ACID W/ 94 BIO BALLS FOR DIVERSION. 10.2 BPM AT 1270 PSI. FLUSH W/ 5671 GAL. BPM AT PSI. BALL OUT. SHUT DOWN PMP. SURGE 3X. WAIT 5 MIN FOR BALLS TO FALL. STAGE FR PAD. STABLE RATE OF 70.1 BPM AT 3629 PSI. ISDP 1564 . FG .71. PERFS OPEN 27/42 ISIP 1685 , FG .72, MR 72.4 BPM, AR 71 BPM, MP 4102 PSI, AP 2667 PSI 100 MESH 16,070 lbs. 0.25 & 0.5 ppg 20/40 WHITE 147,460 lbs 2.0, 2.15-5 RAMP, 5 ppg SLK WTR 1261 BBL, 20# HYBOR G (16) 1372 BBL, BTR 2714 BBLs "SUCKED AIR ON FLUSH STARTED ZONE WITH 122BBL BOTTOMS FLUSHED ZONE AT 53 BPM CREW WASN'T ABLE TO PIN POINT THE PROBLEM" (STAGE SCORE 9) SHUT IN WELL RDMO
15:00	2.00	17:00	SRIG	Rig Up/Down	RDMO CUTTERS & HES
17:00	12.99	06:00	LOCL	Lock Wellhead & Secure	LOCK AND SECURE WELL FOR NIGHT. LEAVE WELL SHUT IN FOR 1HR TURN OVER TO FLOW BACK. OPEN UP WELL @ 16:30 ON A 16/64 CHOKE WITH 1300 PSI

Aurora 15-23D-7-20 9/2/2014 06:00 - 9/3/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL FLOWING TO TREATER WITH 125 PSI. PUMP 100 BBLs HOT WTR DOWN CSG.
07:00	0.50	07:30	RMOV	Rig Move	ROAD RIG FROM 2-15-3-2.
07:30	1.00	08:30	SRIG	Rig Up/Down	RUSU. LAY FLOOR OVER
08:30	2.00	10:30	WLWK	Wireline	MIRU CUTTERS. RIH AND SET KILL PLUG AT 5710'. BLEED OFF AS POOH. RDMO CUTTERS. SPOT CATWALK AND PIPE RACKS. UNLOAD 240-JTS 2-7/8" L-80 TBG.
10:30	2.00	12:30	BOPI	Install BOP's	RAISE FLOOR. ND FRAC VALVES. NU 7" 5K BOP AND HYDRIL. RU FLOOR.
12:30	2.50	15:00	RUTB	Run Tubing	MU AND RIHW/ 4-3/4" HURRICANE MILL, BIT SUB (BFF), 1-JT TBG, PSN. HOOK UP HOSE AND PUMP THRU BIT SUB. RIH AS MEAS AND PU 178-JTS TBG.
15:00	1.00	16:00	SRIG	Rig Up/Down	RU DRLG EQUIP. FILL TBG W/ 35-BBLs. PRESSURE TO 2000 PSI BUT UNABLE TO PUMP THRU TBG.
16:00	2.00	18:00	PULT	Pull Tubing	DROP BAR AND SHEAR PINS. POOH W/ TBG. LAY JT DOWN WITH BIT SUB. NOW ABLE TO PUMP THRU BIT SUB. REPLACE DRAIN PLUGS
18:00	1.00	19:00	RUTB	Run Tubing	RIH W/ MILL AND 131-JTS 2-7/8" TBG. SDFN W/ EOT AT 4168'.
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

Aurora 15-23D-7-20 9/3/2014 06:00 - 9/4/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	0.75	07:45	PTST	Pressure Test	PUMP THRU TBG AND BIT SUB. PRES TEST BOP AND LINES TO 2000 PSI. GOOD.
07:45	0.75	08:30	RUTB	Run Tubing	CONT RIH W/ TBG TO PLUGS. RU PWR SWIVEL.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
08:30	5.00	13:30	DOPG	Drill Out Plugs	EST CIRC AND D/O PLUGS (PUMP 2 BPM, RETURN 2 BPM) KILL PLUG AT 5710'. 0' FILL. D/O IN 15 MIN. FCP 100 PSI ON 26/64" CHOKE CFP #1 AT 6226'. 50' FILL. D/O IN 15 MIN. FCP 50 PSI ON 20/64" CHOKE. CFP#2 AT 6640'. 45' FILL. D/O IN 10 MIN. FCP 25 PSI ON 48/64" CHOKE. CFP #3 AT 6993'. 0' FILL. D/O IN 10 MIN. FCP 25 PSI ON 48/64" CHOKE. PBTD- C/O 20' FILL TO FC AT 7452'. D/O 30' CMT TO 7482'. CIRC CLEAN. RD PWR SWIVEL.
13:30	1.00	14:30	PULT	Pull Tubing	POOH AS LD 8-JTS TBG, CONT POOH W/ 46-JTS. SDFN W/ MILL ABOVE PERFS AT 5764'. TURN OVER TO FBC AND PRODUCTION FOR NIGHT. FLOWING 25 PSI ON 48/64 TO FB TANK. TURN TO TREATER.
14:30	15.50	06:00	FBCK	Flowback Well	CREW TRAVEL. WELL FLOWING TO TREATER.

Aurora 15-23D-7-20 9/4/2014 06:00 - 9/5/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM. WELL HAS SLIGHT FLOW WITH 25 PSI.
07:00	2.00	09:00	WKLL	Kill Well	PUMP 150 BBLs WTR DOWN TBG AS CIRC OUT OIL AND GAS. WELL DIED.
09:00	2.00	11:00	PULT	Pull Tubing	DROP BAR AND SHEAR DRAIN SUB. POOH W/ TBG. LD BIT SUB AND MILL.
11:00	1.50	12:30	RUTB	Run Tubing	MU PROD BHA AND RIH W/ TBG. TBG DETAIL KB 13.00 HANGER .85 223-JTS 2-7/8" L-80 7081.21 5-1/2" 1/4 SET TAC 2.71 3-JTS 2-7/8" L-80 95.24 PSN 1.10 4' TBG SUB 4.15 3-1/2" DESANDER 17.10 5-JTS 2-7/8" L-80 158.64 BULL PLUG .75 TAC AT 7097.77', PSN AT 7194.11', EOT AT 7374.75'
12:30	1.00	13:30	BOPR	Remove BOP's	RD FLOOR. ND BOP. SET TAC. LAND HANGER IN 20K TENSION.
13:30	1.00	14:30	HOIL	Hot Oil Well	X-O FOR RODS. FLUSH TBG W/ 70 BBLs.
14:30	3.00	17:30	RURP	Run Rods & Pump	SPOT AND PREP RODS. PU AND PRIME PUMP. BEGIN RIH W/ PMP AS PU RODS. SDFN
17:30	0.50	18:00	GOP	General Operations	RACK OUT RIG PUMP. SECURE WELL FOR NIGHT.
18:00	12.00	06:00	LOCL	Lock Wellhead & Secure	CREW TRAVEL. WELL SECURE FOR NIGHT.

Aurora 15-23D-7-20 9/5/2014 06:00 - 9/6/2014 06:00

API 43-047-53883	State/Province UT	County Uintah	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 7,560.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HSM.
07:00	1.00	08:00	RURP	Run Rods & Pump	CONT RIH W/ PMP AS PU RODS. SPACE OUT AND SEAT PUMP. ROD DETAIL 1-1/2" X 30' POLISH ROD 2', 6', 8' X 7/8" PONY RODS 100) 7/8" D 8 PER 153) 3/4" D 8 PER 32) 1" D 4 PER SHEAR CPLG 25-175-RHBC-20-5-21-24' PUMP
08:00	0.50	08:30	PTST	Pressure Test	FILL TBG W/ 2 BBLs AND STROKE TEST PUMP TO 800 PSI. GOOD.
08:30	1.50	10:00	SRIG	Rig Up/Down	HANG HEAD AND RODS ON. RDSU. CLEAN LOCATION. TURN OVER TO PRODUCTION. NEED TO MOVE TO #2 HOLE AND ALIGN UNIT W/ WELL.
10:00	3.00	13:00	RMOV	Rig Move	ROAD RIG TO 12-15-6-19. RUSU. SDFN
13:00	17.00	06:00	GOP	General Operations	WELL TURNED OVER TO PRODUCTION



Payzone Directional
End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 15-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Site:	SECTON 23 T7S, R20E	MD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Well:	Aurora Federal 15-23D-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
From:	Lat/Long	Easting:	2,161,785.85 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	40° 11' 22.370 N
		Longitude:	109° 38' 7.160 W
		Grid Convergence:	1.14 °

Well	Aurora Federal 15-23D-7-20, SHL:					
Well Position	+N/-S	0.0 usft	Northing:	11,130,910.11 usft	Latitude:	40° 11' 22.370 N
	+E/-W	0.0 usft	Easting:	2,161,785.85 usft	Longitude:	109° 38' 7.160 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	4,805.0 usft	Ground Level:	4,792.0 usft	

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	7/20/2014	10.76	65.92	52,107

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	51.35	

Survey Program	Date	8/4/2014		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
1,280.0	7,560.0	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 15-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Site:	SECTION 23 T7S, R20E	MD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Well:	Aurora Federal 15-23D-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
1,280.0	0.80	61.92	1,280.0	8.8	4.2	7.9	0.06	0.06	0.00	0.00
1,365.0	1.41	60.86	1,364.9	10.4	5.0	9.3	0.72	0.72	-1.25	-1.25
1,449.0	2.78	48.57	1,448.9	13.5	6.8	11.8	1.71	1.63	-14.63	-14.63
1,533.0	4.29	47.38	1,532.7	18.6	10.3	15.6	1.80	1.80	-1.42	-1.42
1,617.0	5.48	44.34	1,616.4	25.7	15.3	20.7	1.45	1.42	-3.62	-3.62
1,702.0	6.58	46.67	1,700.9	34.6	21.6	27.1	1.33	1.29	2.74	2.74
1,786.0	8.09	49.76	1,784.3	45.3	28.7	35.1	1.86	1.80	3.68	3.68
1,870.0	9.72	54.87	1,867.2	58.3	36.6	45.4	2.16	1.94	6.08	6.08
1,955.0	10.61	53.68	1,950.9	73.3	45.3	57.6	1.08	1.05	-1.40	-1.40
2,039.0	11.40	52.58	2,033.4	89.3	55.0	70.4	0.97	0.94	-1.31	-1.31
2,123.0	11.18	50.95	2,115.7	105.8	65.1	83.3	0.46	-0.26	-1.94	-1.94
2,208.0	11.31	48.17	2,199.1	122.3	75.9	95.9	0.66	0.15	-3.27	-3.27
2,292.0	11.09	46.37	2,281.5	138.6	87.0	107.9	0.49	-0.26	-2.14	-2.14
2,376.0	10.69	46.54	2,364.0	154.4	97.9	119.4	0.48	-0.48	0.20	0.20
2,461.0	10.12	45.75	2,447.6	169.7	108.5	130.5	0.69	-0.67	-0.93	-0.93
2,545.0	10.12	44.96	2,530.3	184.4	118.9	141.0	0.17	0.00	-0.94	-0.94
2,630.0	9.72	45.97	2,614.0	198.9	129.2	151.4	0.51	-0.47	1.19	1.19
2,714.0	9.81	44.16	2,696.8	213.1	139.2	161.5	0.38	0.11	-2.15	-2.15
2,798.0	9.90	42.84	2,779.6	227.3	149.7	171.4	0.29	0.11	-1.57	-1.57
2,882.0	9.41	44.56	2,862.4	241.3	159.9	181.1	0.68	-0.58	2.05	2.05
2,967.0	9.50	46.54	2,946.2	255.2	169.6	191.1	0.40	0.11	2.33	2.33
3,051.0	10.21	48.88	3,029.0	269.5	179.3	201.7	0.97	0.85	2.79	2.79
3,135.0	9.90	47.95	3,111.7	284.2	189.0	212.7	0.42	-0.37	-1.11	-1.11
3,220.0	9.81	48.35	3,195.4	298.7	198.7	223.6	0.13	-0.11	0.47	0.47
3,304.0	9.10	48.75	3,278.3	312.5	207.9	233.9	0.85	-0.85	0.48	0.48
3,388.0	9.59	46.76	3,361.2	326.1	217.0	244.0	0.70	0.58	-2.37	-2.37



Payzone Directional

End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 15-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Site:	SECTION 23 T7S, R20E	MD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Well:	Aurora Federal 15-23D-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)	
3,473.0	9.50	45.88	3,445.0	340.1	226.8	254.2	0.20	-0.11	-1.04	
3,557.0	9.20	42.27	3,527.9	353.7	236.6	263.7	0.78	-0.36	-4.30	
3,641.0	9.72	42.44	3,610.7	367.3	246.8	273.0	0.62	0.62	0.20	
3,726.0	9.72	45.75	3,694.5	381.5	257.1	283.0	0.66	0.00	3.89	
3,810.0	9.41	45.18	3,777.4	395.4	266.9	292.9	0.39	-0.37	-0.68	
3,894.0	9.50	45.04	3,860.2	409.1	276.6	302.7	0.11	0.11	-0.17	
3,978.0	9.10	42.27	3,943.1	422.6	286.4	312.1	0.71	-0.48	-3.30	
4,063.0	8.79	47.38	4,027.1	435.7	295.8	321.4	1.00	-0.36	6.01	
4,147.0	9.82	50.77	4,110.0	449.3	304.7	331.6	1.39	1.23	4.04	
4,231.0	11.89	49.98	4,192.5	465.1	314.8	343.8	2.47	2.46	-0.94	
4,316.0	11.31	48.75	4,275.7	482.2	325.9	356.8	0.74	-0.68	-1.45	
4,400.0	11.00	44.96	4,358.1	498.4	337.0	368.6	0.95	-0.37	-4.51	
4,484.0	9.19	42.84	4,440.8	513.0	347.6	378.9	2.20	-2.15	-2.52	
4,568.0	8.31	39.36	4,523.9	525.5	357.2	387.3	1.22	-1.05	-4.14	
4,653.0	8.09	42.27	4,608.0	537.5	366.4	395.2	0.55	-0.26	3.42	
4,737.0	8.31	49.36	4,691.1	549.4	374.7	403.8	1.23	0.26	8.44	
4,822.0	8.48	47.07	4,775.2	561.7	383.0	413.0	0.44	0.20	-2.69	
4,906.0	9.72	51.26	4,858.2	575.0	391.6	423.1	1.67	1.48	4.99	
4,990.0	8.22	50.46	4,941.1	588.1	399.9	433.2	1.79	-1.79	-0.95	
5,075.0	8.22	51.08	5,025.3	600.3	407.6	442.7	0.10	0.00	0.73	
5,159.0	6.50	48.35	5,108.6	611.0	414.5	450.9	2.09	-2.05	-3.25	
5,243.0	5.39	44.47	5,192.1	619.7	420.5	457.2	1.40	-1.32	-4.62	
5,327.0	5.39	45.35	5,275.7	627.5	426.1	462.8	0.10	0.00	1.05	
5,412.0	4.82	49.05	5,360.4	635.1	431.2	468.3	0.77	-0.67	4.35	
5,496.0	3.80	50.07	5,444.2	641.4	435.3	473.1	1.22	-1.21	1.21	
5,580.0	3.40	48.48	5,528.0	646.6	438.7	477.1	0.49	-0.48	-1.89	
5,665.0	2.39	49.85	5,612.9	650.9	441.6	480.4	1.19	-1.19	1.61	



Payzone Directional

End of Well Report



Company:	Bill Barrett Corporation	Local Co-ordinate Reference:	Well Aurora Federal 15-23D-7-20
Project:	Fort Duchesne	TVD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Site:	SECTION 23 T7S, R20E	MD Reference:	Aurora Federal 15-23D-7-20 @ 4805.0usft (CAPSTAR :
Well:	Aurora Federal 15-23D-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)	
5,749.0	1.59	48.75	5,696.8	653.8	443.5	482.6	0.95	-0.95	-1.31	
5,833.0	0.71	58.44	5,780.8	655.5	444.5	483.9	1.07	-1.05	11.54	
5,918.0	0.71	66.95	5,865.8	656.6	445.0	484.8	0.12	0.00	10.01	
6,002.0	0.62	133.97	5,949.8	657.1	444.9	485.6	0.88	-0.11	79.79	
6,086.0	0.80	140.98	6,033.8	657.2	444.1	486.3	0.24	0.21	8.35	
6,170.0	1.19	150.37	6,117.8	657.0	442.9	487.1	0.50	0.46	11.18	
6,255.0	1.19	169.76	6,202.8	656.5	441.2	487.7	0.47	0.00	22.81	
6,339.0	1.41	171.87	6,286.8	655.5	439.4	488.0	0.27	0.26	2.51	
6,423.0	1.59	176.67	6,370.7	654.3	437.2	488.2	0.26	0.21	5.71	
6,508.0	1.90	182.58	6,455.7	652.7	434.6	488.2	0.42	0.36	6.95	
6,592.0	1.81	171.65	6,539.6	651.1	431.9	488.4	0.43	-0.11	-13.01	
6,676.0	2.12	171.25	6,623.6	649.7	429.0	488.8	0.37	0.37	-0.48	
6,760.0	1.81	163.45	6,707.5	648.4	426.2	489.4	0.49	-0.37	-9.29	
6,845.0	2.21	166.54	6,792.5	647.2	423.4	490.2	0.49	0.47	3.64	
6,922.0	2.21	161.47	6,869.4	646.1	420.5	491.0	0.25	0.00	-6.58	
7,006.0	2.21	163.54	6,953.4	644.9	417.4	492.0	0.10	0.00	2.46	
7,090.0	2.21	167.55	7,037.3	643.6	414.3	492.8	0.18	0.00	4.77	
7,174.0	2.52	151.78	7,121.2	642.5	411.1	494.0	0.85	0.37	-18.77	
7,258.0	2.61	135.34	7,205.2	642.4	408.1	496.2	0.88	0.11	-19.57	
7,343.0	1.81	98.45	7,290.1	643.5	406.5	498.9	1.87	-0.94	-43.40	
7,427.0	1.81	111.15	7,374.1	645.1	405.8	501.5	0.48	0.00	15.12	
7,512.0	1.68	127.27	7,459.0	646.1	404.6	503.7	0.60	-0.15	18.96	
7,560.0	1.68	127.27	7,507.0	646.4	403.7	504.8	0.00	0.00	0.00	

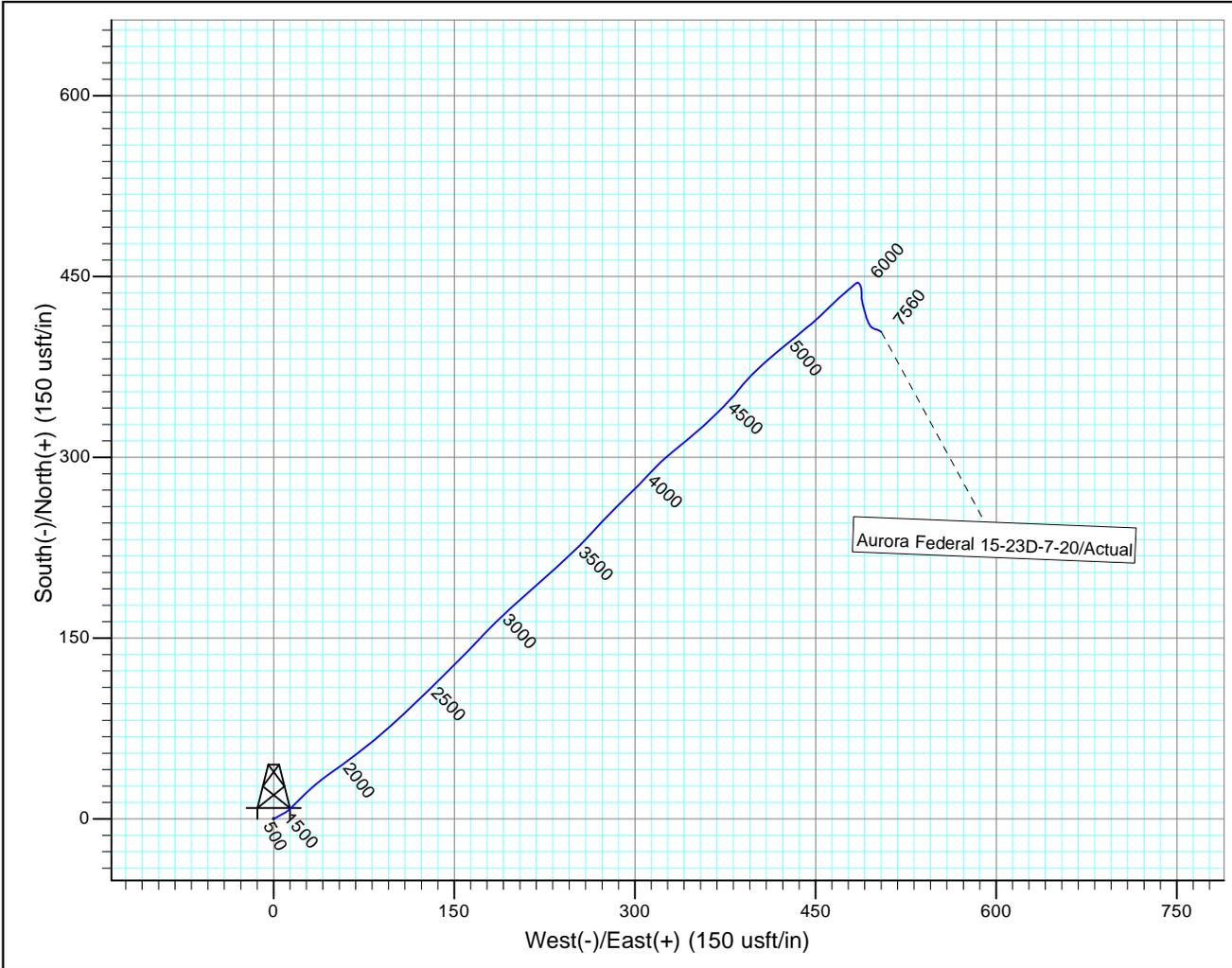
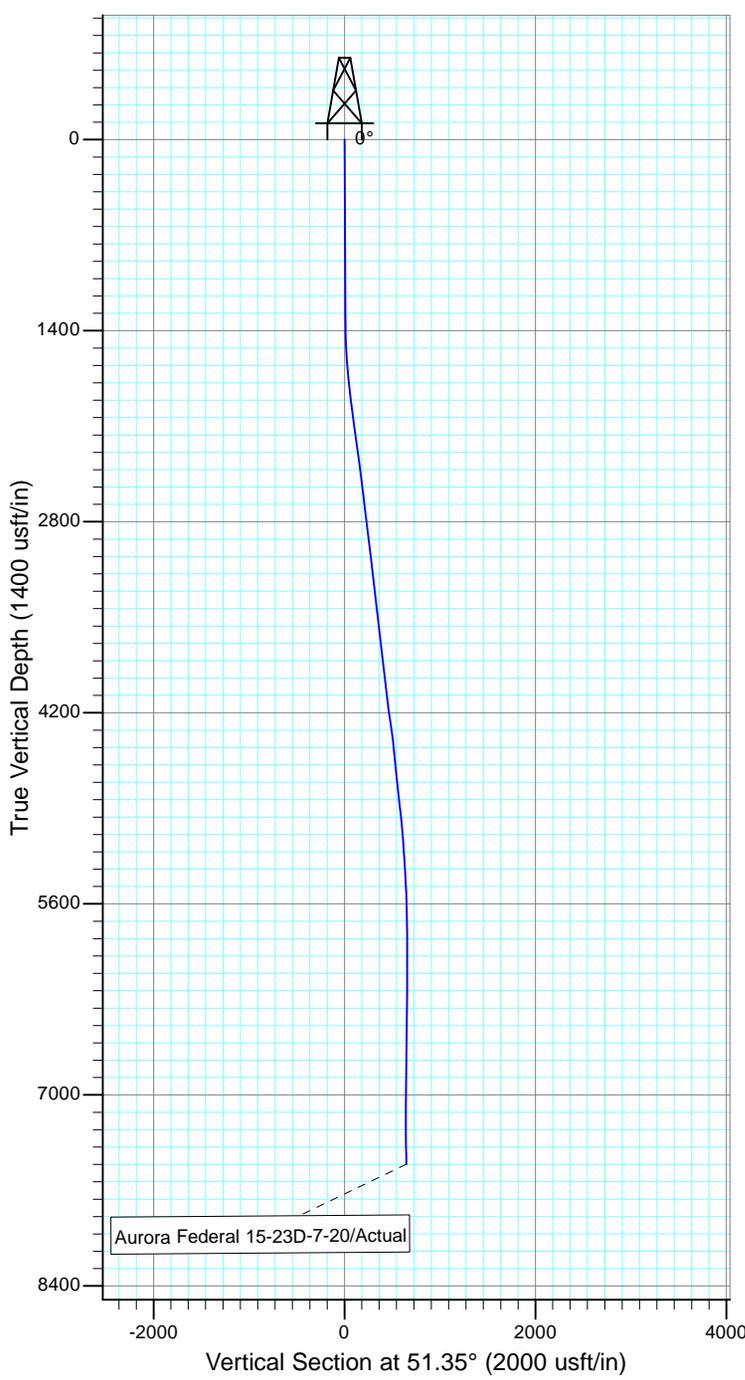
Checked By: _____ Approved By: _____ Date: _____

Sundry Number: 56057 API Well Number: 43047538830000



Project: Fort Duchesne
Site: SECTON 23 T7S, R20E
Well: Aurora Federal 15-23D-7-20
Wellbore: Wellbore #1
Design: Actual

Azimuths to True North
 Magnetic North: 10.76°
 Magnetic Field
 Strength: 52106.9snT
 Dip Angle: 65.92°
 Date: 7/20/2014
 Model: IGRF2010



Design: Actual (Aurora Federal 15-23D-7-20/Wellbore #1)
 Created By: *Matthew Linton* Date: 9:30, August 04 2014
 THIS SURVEY IS CORRECT TO THE BEST OF
 MY KNOWLEDGE AND IS SUPPORTED
 BY ACTUAL FIELD DATA

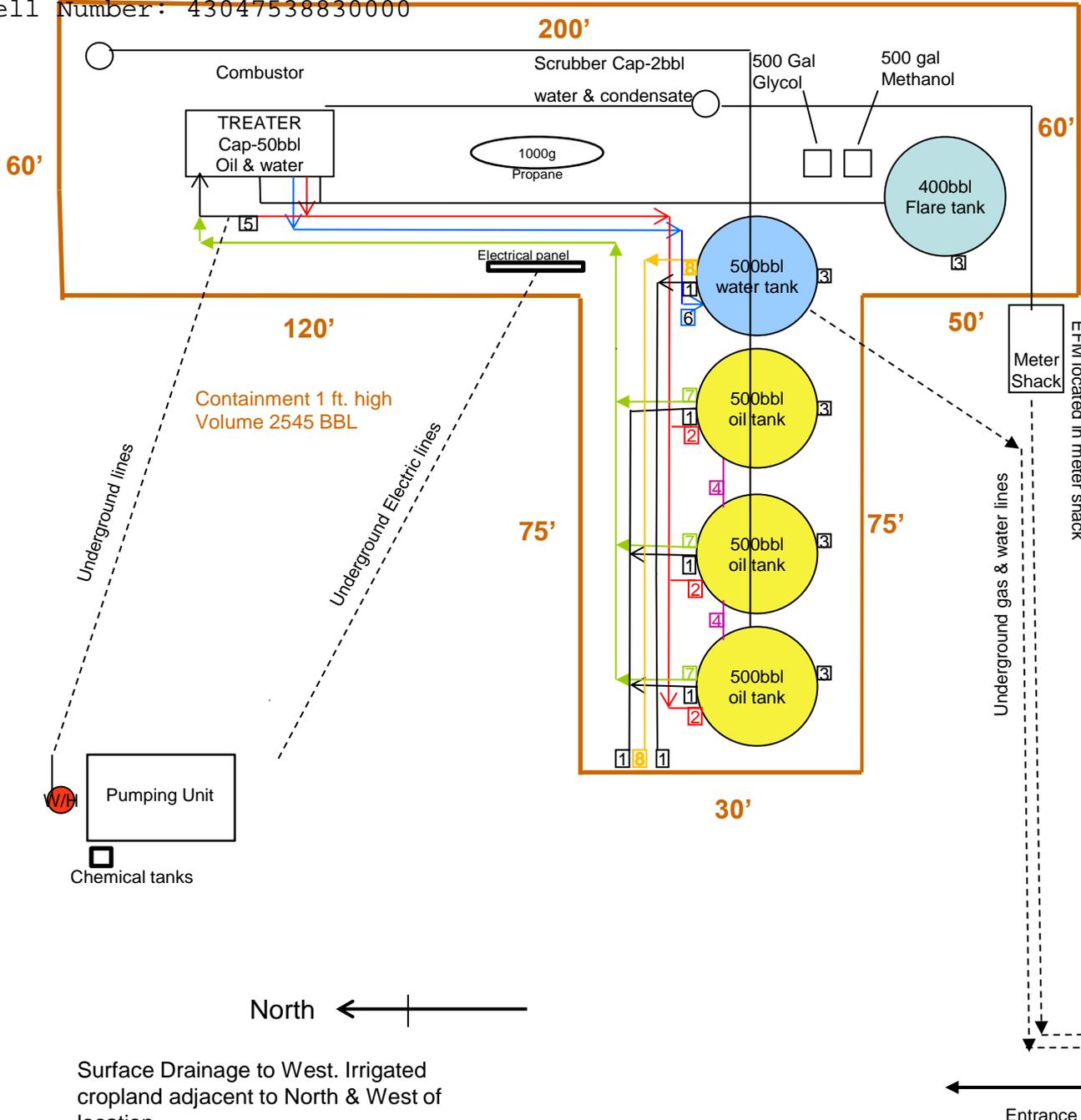
STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU080689
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047538830000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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 checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/6/2014	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input 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 checked="" type="checkbox"/> OTHER	
	OTHER: <input style="width: 100px;" type="text" value="SSD"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. ATTACHED PLEASE FIND THE SITE FACILITY DIAGRAM/SITE SECURITY.		
		Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY November 12, 2014
NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Brady Riley	303 312-8115	Permit Analyst
SIGNATURE	DATE	
N/A	11/6/2014	

Sundry Number: 57574 API Well Number: 43047538830000

BILL BARRETT CORPORATION

Aurora Federal 15-23D-7-20
 SW¼ SE¼, SEC.23,T7S,R20E,
 Lease # UTU 80689
 Unit # UTU 82456
 API # 43-047-53883
 Uintah Co. Utah

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



1 - 4" LOAD LINE
 Production Phase - sealed closed
 Sales Phase - open to load Production bought

2 - 3" OIL LINES
 Production Phase - open
 Sales Phase - sealed close

3 - 4" DRAIN
 Production Phase - sealed closed
 Sales Phase - sealed closed
 Drain water - open

4 - 4" UPPER EQUALIZER
 Production Phase - open
 Sales Phase - sealed close

5 - BYPASS

6 - 3" WATER LINES
 Production Phase - open
 No Sales Phase

7 - 2" RECYCLE
 Production - open
 Sales - sealed closed

8 - 2" WATER TANK SKIM
 Not sealed

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

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: UTU080689	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA FEDERAL 15-23D-7-20	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047538830000	
PHONE NUMBER: 303 312-8134 Ext		9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0275 FSL 2515 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE 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: 12/19/2014 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="pit closed"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.			
<p>THE PIT WAS CLOSED ON THIS WELL ON 12/19/2014. INTERIM RECLAMATION ON THE PAD IS BEING COMPLETED BY THE LANDOWNER PER THE SIGNED SUA.</p>			
<p>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 09, 2015</p>			
NAME (PLEASE PRINT) Brady Riley	PHONE NUMBER 303 312-8115	TITLE Permit Analyst	
SIGNATURE N/A		DATE 1/6/2015	