

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 Argyle 8-43					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT UNDESIGNATED					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME AURORA (DEEP)					
6. NAME OF OPERATOR ELK RESOURCES, LLC						7. OPERATOR PHONE 303 296-4505					
8. ADDRESS OF OPERATOR 1401 17th Street, Suite 700, Denver, CO, 80202						9. OPERATOR E-MAIL jwhisler@elkresources.net					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Blaine M. Argyle & Ellen T. Argyle						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-545-2437					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 69, Box 143, ,						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		212 FSL 2432 FEL		SWSE	8	7.0 S	20.0 E	S			
Top of Uppermost Producing Zone		212 FSL 2432 FEL		SWSE	8	7.0 S	20.0 E	S			
At Total Depth		212 FSL 2432 FEL		SWSE	8	7.0 S	20.0 E	S			
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 212			23. NUMBER OF ACRES IN DRILLING UNIT 40					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4863			26. PROPOSED DEPTH MD: 15700 TVD: 15700					
27. ELEVATION - GROUND LEVEL 4879			28. BOND NUMBER B000969			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE MUNICIPAL					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement		Sacks	Yield	Weight
Surf	17.5	13.375	0 - 500	48.0	H-40 ST&C	8.3	Halliburton Light , Type Unknown		185	1.78	12.8
							Type V		225	1.2	15.6
I1	12.25	9.625	0 - 5000	40.0	J-55 ST&C	8.6	50/50 Poz		705	1.25	14.3
							50/50 Poz		750	1.98	12.5
							Premium Plus		125	1.19	15.6
I2	8.75	7	0 - 10500	26.0	P-110 LT&C	9.0	50/50 Poz		160	1.41	14.4
							Unknown		315	3.81	11.0
							50/50 Poz		480	1.41	14.4
Prod	6.25	4.5	0 - 15700	13.5	P-110 LT&C	12.0	50/50 Poz		365	1.41	14.35
							50/50 Poz		145	1.41	14.35
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 checked="" type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Merrell Olsen				TITLE Engineer I				PHONE 303 339-1919			
SIGNATURE				DATE 03/02/2011				EMAIL molsen@delekenegyus.com			

<p>API NUMBER ASSIGNED 43047515090000</p>	<p>APPROVAL</p> <p></p> <p>Permit Manager</p>
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DRILLING PLAN

Elk Resources, Inc.
Argyle 8-43
SW/SE of Section 8, T-7-S, R-20-E, S.L.B. & M.
Uintah County, Utah

1,2,3 **Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth</u>
Uinta	1365'
Green River	3720'*
Wasatch	7600'*
Mesaverde	11200'*
Castlegate	14385'
Mancos	14565'
Mancos B	15229'*
Proposed TD	15700'

PROSPECTIVE PAY* oil and gas

4 **Casing Program**

<u>HOLE SIZE</u>	<u>SETTING DEPTH</u>		<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>COND.</u>
	<u>from</u>	<u>to</u>					
26"	surface	40'	20"				
17 1/2"	surface	500'	13 3/8"	48#	H-40	ST&C	New
12 1/4"	surface	5,000'	9 5/8"	40#	J-55	ST&C	New
8 3/4"	surface	10,500'	7"	26#	P-110	LT&C	New
6 1/4"	surface	15,700'	4 1/2"	13.5#	P-110	LT&C	New

5 **Cementing Program** (Volumes other than tail volumes will be calculated from caliper logs.)

20" Conductor Ready mix

13-3/8" Surface Lead: 185 sx light wt. with 1% CaCl and 1/4 lb/sx celloflake mixed 12.8 lb/gal., 1.78 cf/sk yield (75% excess on total volume).
Tail: 225 sx Type V with 2% CaCl and 1/4 lb/sx celloflake mixed 15.6 lb/gal., 1.2 cf/sk yield.

9 5/8" Intermediate Stage 1: 705 sx 50-50 Pozmix with 2% CaCl and LCM mixed at 14.3 ppg, 1.25 cf/sk yield.

DV @ ±3200' Stage 2: Lead 750 sx 50-50 Pozmix with 8% bentonite and 10% Cal-Seal mixed at 12.5 ppg, 1.98 cf/sk yield; Second stage tail: 125 sx Premium Plus V with 1% CaCl mixed at 15.6 ppg, 1.19 cf/sk yield.
(Estimated top of cement second stage at surface with 65% excess).

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7" Stage 1: 160 sx 50/50 Poz + 2% gel + 6% Halad-322 + 1 pps Granulite + 5% salt + ¼ pps Flocele; 14.4 ppg, 1.41 cf/sk (no excess).
 DV @ ±9000' Stage 2: Lead 315 sx HiFill + 16% gel + 0.75% Econolite + 7.5 pps gilsonite + ¼ Flocele; 11.0 ppg, 3.81 cf/sx (200% excess).
 Tail 480 sx 50/50 Poz + 2% gel + 6% Halad-322 + 1 pps Granulate + 5% salt + ¼ pps Flocele; 14.4 ppg, 1.41 cf/sk. Cement top to be 500' into 9-5/8" protection string.

4 1/2" Stage 1: 365 sx 50/50 Poz 2% gel + 0.3% CFR-3 + 0.15% HR+ 12 + 20% SSA-1 + 0.4% Halad-344; 14.35 ppg, 1.41 cf/sk (35% excess).
 DV @ ±12,000' Stage 2: 145 sx 50/50 Poz 2% gel + 0.3% CF-3 + 0.15% HR + 12 + 20% SSA-1 + 0.4% Halad-344, 14.35 ppg, 1.41 cf/sk (35% excess). Cement top to be a minimum of 500' into 7" intermediate string.

6 Mud Program

Elk Resources, Inc. will record slow pump speed on daily drilling report after mudding up.

Elk shall use electronic/mechanical mud monitoring equipment, which shall include a pit volume totalizer (PVT); stroke counter; and flow sensor.

A mud test will be performed at least every 24 hours after mudding up to determine density, viscosity, gel strength, filtration, and pH.

Gas-detecting equipment will be installed and operated in the mud-return system.

A flare system will be used that gathers and burns all gas. The flare line(s) shall discharge at least 100 feet from the well head with straight lines and shall be positioned downwind of the prevailing wind direction and shall be anchored.

A mud-gas separator (gas buster) shall be used from surface casing to TD.

As per 43 CFR 3160, Onshore Oil and Gas Order No. 2, Drilling Operations, C. Mud Program Requirements.

<u>INTERVAL</u>	<u>WEIGHT</u>	<u>VISCOSITY</u>	<u>FLUID LOSS</u>	<u>REMARKS</u>
Surf. - 880'	N/A			Water
880 - 4500'	8.4 / 8.6 ppg	32	NC	Spud Mud
4500 - 10000'	8.4 / 9.0 ppg	28	NC	KCL Water/Gel
10000 - 15700'	9.0/12.0 ppg	34	10	KCL/Gel/Polymer

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7 BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
Surf. - 1000'	None
1000' – 10000'	5000# Ram type double BOP and annular
10000' – TD	10,000# Ram type double BOP and 5000# annular

Drilling spool to accommodate choke and kill lines.

Estimated bottom-hole pressure at TD will be 9500 psi. Drilling spool to accommodate choke and kill lines.

ANCILLARY EQUIPMENT AND CHOKE MANIFOLD RATED AT 5,000# OR 10,000# AS NEEDED TO MATCH BOPE. ALL BOP AND BOPE TESTS WILL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE OF UTAH.

THE STATE OF UTAH, DIVISION OF OIL, GAS AND MINING WILL BE NOTIFIED 24 HOURS IN ADVANCE OF ALL BOP PRESSURE TESTS.

8 Auxiliary equipment

- a) Upper and Lower Kelly cock
- b) Floor stabbing valve 5000#
- c) Safety valve(s) and subs to fit all string connections in use

9 Testing, Logging and Core Programs

Cores None anticipated
 Testing None anticipated
 Sampling 10' samples; surface casing to TD.
 Surveys Run every 1000' and on trips
 Logging Resistivity, neutron density, and caliper from TD to surface casing. Gamma ray from TD to surface

10 Anticipated Abnormal Pressures or Temperatures

None anticipated.

11 Drilling Schedule

Spud Approximately February 1, 2007
 Duration 30 days drilling time
 30 days completion time

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HAZARDOUS MATERIAL DECLARATION

Argyle 8-43

Elk Resources, Inc. guarantees that during the drilling and completion of the above referenced well, we will not use, produce, or store, transport or dispose 10,000# annually of any of the hazardous chemicals contained in the Environmental Protection Agency's consolidated list of chemicals subject to reporting under Title III Super Amendments and Reauthorization Act (SARA) of 1986.

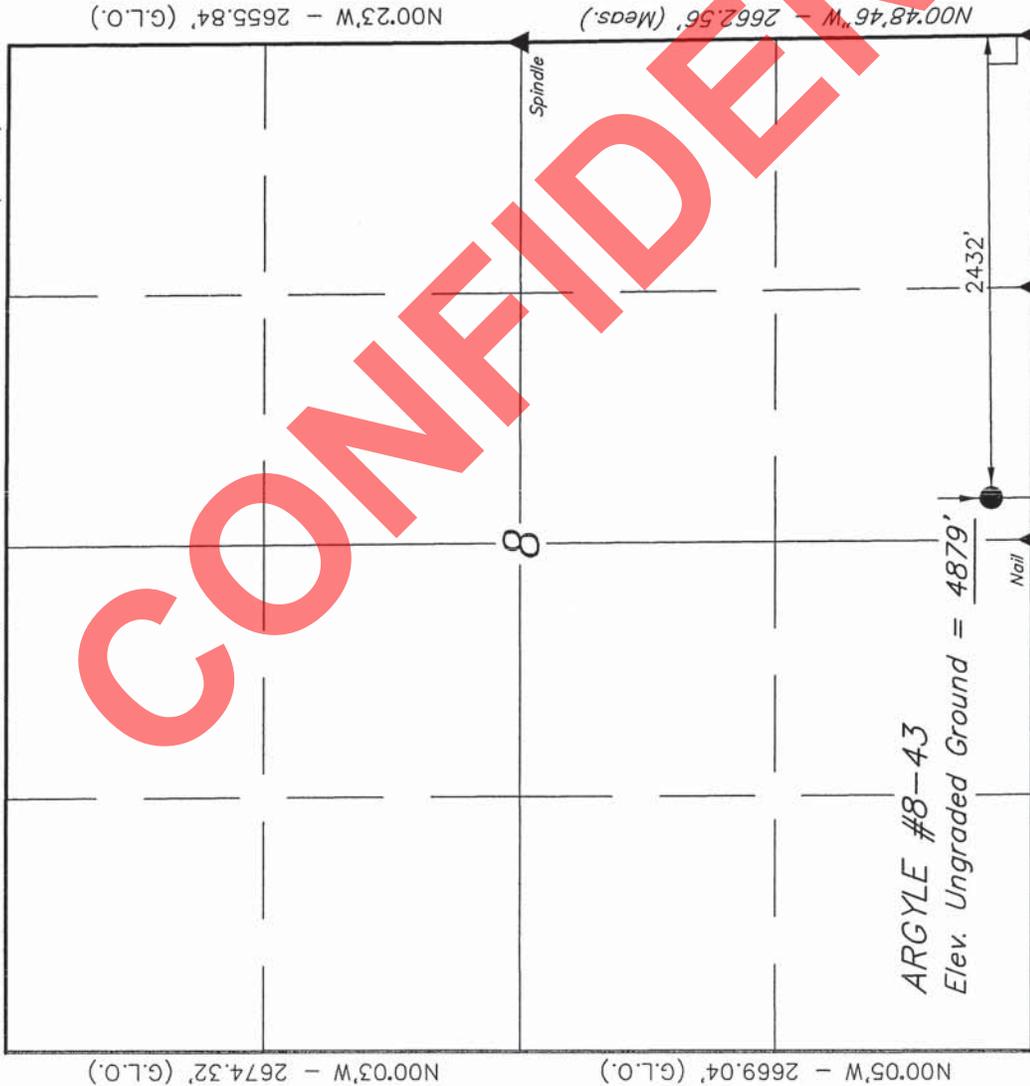
Elk Resources, Inc. guarantees that during the drilling and completion of the above referenced well, we will use, produce, store, transport, or dispose less than the threshold planning quantity (TPQ) of any extremely hazardous substances as defined in 40 CFR 355.

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

N89°55'W - 2639.34' (G.L.O.)

N89°57'W - 2630.76' (G.L.O.)



S89°53'W - 1329.90' (G.L.O.)
S89°53'W - 1329.90' (G.L.O.)

ARGYLE #8-43
Elev. Ungraded Ground = 4879'

N89°48'58"E - 1330.14' (Meas.)
1988 Brass Cap
0.8' Below Ground,
Gravel Road

N89°41'17"E - 1325.64' (Meas.)
Private Plastic Cap,
PLS #161250

(AUTONOMOUS NAD 83)
LATITUDE = 40°13'06.47" (40.218464)
LONGITUDE = 109°41'34.45" (109.692903)
(AUTONOMOUS NAD 27)
LATITUDE = 40°13'06.61" (40.218503)
LONGITUDE = 109°41'31.94" (109.692206)

LEGEND:

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

ELK RESOURCES, INC.

Well location, ARGYLE #8-43, located as shown in the SW 1/4 SE 1/4 of Section 8, 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 SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

BASIS OF BEARINGS

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



SCALE

CERTIFICATE

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

Richard A. ...
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

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

SCALE	1" = 1000'	DATE SURVEYED:	01-26-06	DATE DRAWN:	02-15-06
PARTY	D.A. C.F. P.M.	REFERENCES	G.L.O. PLAT		
WEATHER	COLD	FILE	ELK RESOURCES, INC.		



**PROPOSED LOCATION:
ARGYLE #8-43**

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LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED



ELK RESOURCES, INC.

ARGYLE #8-43
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL



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

TOPOGRAPHIC 02 23 06
MAP MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00



SURFACE DAMAGE AGREEMENT (ARGYLE #8-43 LOCATION)

THIS AGREEMENT dated April, 2006 between Blaine M. Argyle and Ellen T. Argyle, whose address is HC 69, Box 143, Randlett, Utah 84063, hereinafter referred to as "Surface Owner", and Elk Resources, Inc., whose address is 1401 17th Street, Suite 700, 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 Utah County, Utah, hereinafter referred to as "Lands", to wit:

A Tract of land lying in the **SW/4SE/4 of Section 8, Township 7 South, Range 20 East** containing **3.887** acres, more or less and more fully described on Exhibit "A" attached hereto and made a part hereof.

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

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

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

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

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

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

a. Wellsites and Access. \$12,000.00 for the said Argyle #8-43 wellsite and the new access road to be constructed and located on the Lands, together with any lands used for production facilities or other necessary facilities in connection with the wellsites. If, by reasons directly resulting from the operations of Operator, there is damage to real or personal property upon the Lands which is not associated with usual and customary operations, such as (but not limited to) damage to livestock, structures, buildings, fences, culverts, cement ditches, irrigation systems, and natural water ways, such damage will be repaired or replaced by Operator, or Operator will pay reasonable compensation to Surface Owner for such additional damage.

b. Power Lines and Pipelines. For each new power line or new pipeline installed by Operator, Operator shall pay to Owner the sum of Ten dollars (\$10.00) per rod for each such line. Operator shall be responsible for back filling, re-packing, re-seeding, and re-contouring the surface so as not to interfere with Owner's operations. Operator shall provide Owner with a survey showing the location of all power lines, pipelines and gathering systems promptly after their installation. All pipelines and gathering systems located by Operator on the Lands shall be buried to a depth of at least three (3) feet below the surface, and surface marked in accordance with industry standards. All easements and rights-of-way for power lines and pipelines shall be fifty (50) feet in width during initial construction and reclamation activities, and after completion of initial construction and reclamation activities such easements and rights-of-way shall revert to twenty-five (25) feet in width being twelve and one-half (12.5) feet on each side of the centerline of the line. Notwithstanding, Operator shall have the right to temporarily lay pipelines on the surface for a period not to exceed three years with the consent of the Owner, which consent shall not be unreasonably withheld. All power lines shall be installed underground to a depth of at least three (3) feet below the surface whenever reasonably practical to do so.

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:

-Operator agrees to fence its location prior to any construction activities and the fencing shall in equal quality to the other fences on Surface Owners property. The fence on the west side of the location shall connect with existing fence.

SURFACE OWNER:

Blaine M. Argyle
By: **Blaine M. Argyle**

Ellen T. Argyle
By: **Ellen T. Argyle**

SS/Tax ID# _____

STATE of Utah

COUNTY of Uintah

BEFORE ME, the undersigned, a Notary Public, in and for said County and State, on this 8 day of August, 2006, personally appeared Blaine M. Argyle

identical person _____, described in and who executed the within and foregoing instrument of writing and acknowledged to me _____, to me known to be the executed same as _____, that _____ he _____ duly
IN WITNESS WHEREOF, I have hereunto set my hand and affixed my notarial seal the day and year last above written.

My Commission Expires: April 19 2010

Notary Public: Maureen G. Mangun
Address: 7580 N. Sawtooth
Vernal, ut 84078



DESIGNATION OF AGENT OR OPERATOR

The undersigned is, on record, the holder of oil and gas lease

LEASE NAME: _____ Fee _____
LEASE NUMBER: Argyle 8-43 _____

and hereby designates

NAME: Elk Resources, Inc.
ADDRESS: 1401 17th St., Suite 700
city Denver state CO zip 80202

as his (check one) agent / operator , with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the Division Director or Authorized Agent may serve written or oral instructions in securing compliance with the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah with respect to:

(Describe acreage to which this designation is applicable. Identify each oil and gas well by API number and name. Attach additional pages as needed.)
T7S R20E SLB&M, Section 8 W/2SE

It is understood that this designation of agent/operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Conservation General Rules and Procedural Rules of the Board of Oil, Gas and Mining of the State of Utah. It is also understood that this designation of agent or operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated agent/operator, the lessee will make full and prompt compliance with all rules, lease terms or orders of the Board of Oil, Gas and Mining of the State of Utah or its authorized representative.

The lessee agrees to promptly notify the Division Director or Authorized Agent of any change in this designation.

Effective Date of Designation: 5-30-06

BY: (Name) _____ OF: (Company) EnCana Oil & Gas (USA) Inc.
(Signature) *Douglas W Jones* 8W
(Title) Douglas W Jones Attorney in Fact 370 17th Street, Suite 1700
(Phone) _____ city Denver
state CO zip 80202

RECEIVED: May. 11, 2011

SURFACE USE PLAN

Argyle 8-43

Attachment to Permit to Drill

The dirt contractor will be provided with an approved copy of the surface use plan of operations before initiating construction.

The onsite inspection for the referenced well is pending with the Division of Oil, Gas and Mining and the landowner:

1. Existing Roads:

- a. The proposed well site is located approximately 21.55 miles South-southwesterly of Vernal, Utah.
- b. The following are directions to the proposed well site:
Proceed in a Southerly direction from Vernal, Utah along U.S. Highway 40 approximately 14 miles; go South on State Highway 88 for 7.0 miles to an existing road; head Northwesterly for 200'±, and then South on an existing road for approximately 0.15 miles to another existing road; then proceed West 0.4 miles to the access road; head North 30'± on the access road to the drilling location.
- c. The use of roads under Federal, State and County Road Department maintenance are necessary to access the Argyle 8-43 location. All existing roads will be maintained and kept in good repair during all phases of operation.
- d. Vehicle operators will obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions.
- e. Since no improvements are anticipated to the State, County, or BLM access roads, no topsoil striping will occur.

2. Planned Access Roads:

- a. From the existing surface county road, a new access is proposed trending easterly approximately 30 feet to the proposed well site. The access consists of entirely new disturbance across previously cultivated ground and crosses no significant drainages.
- b. The proposed access road crosses surface owned by Blaine M. Argyle and Ellen T. Argyle. A copy of the fee surface damage agreement is attached.
- c. The proposed access road will consist of a 14' travel surface within a 30' disturbed area.

- d. A maximum grade of 4% will be maintained throughout the project with no cuts and fills required to access the well.
- e. No turnouts are proposed since the access road is only 30 feet long and adequate site distance exists in all directions.
- f. No low water crossings are anticipated. Adequate drainage structures will be incorporated into the road.
- g. No surfacing material will come from Federal or SITLA lands.
- h. One gate is anticipated at this time as the fence is crossed leaving the paved surface.
- i. Surface disturbance and vehicular travel will be limited to the approved location access road.
- j. All access roads and surface disturbing activities will conform to the standards outlined in the pending fee surface use agreement.
- k. The operator will be responsible for all maintenance of the access road including drainage structures.

3. Location of Existing Wells:

- a. Enclosed is a map reflecting a one-mile radius of the proposed well; there is one producing well within this radius.

4. Location of Production Facilities:

- a. All permanent structures will be painted a flat, non-reflective Desert Brown to match the standard environmental colors. All facilities will be painted within six month of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- b. If productive, a gas meter run will be constructed and located on lease within 500 feet of the wellhead. Meter runs will be housed and/or fenced. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- c. If productive, a tank battery will be constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain the storage capacity of the largest tank. All loading lines and valves will be placed inside the berm surrounding the tank battery. All liquid hydrocarbons production and measurement shall conform to the provisions of 43 CFR 3162.7-3 and Onshore Oil and Gas Order No. 4 and Onshore Oil and Gas Order No. 5 for oil and natural gas production and measurement.
- d. Any necessary pits will be properly fenced to prevent any wildlife and livestock entry.
- e. All access roads will be maintained as necessary to prevent erosion and accommodate year-round traffic. The road will be maintained in a safe useable condition.
- f. The site will require periodic maintenance to ensure that drainages are kept open and free of debris, ice, and snow, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water:

- a. Water for construction and drilling will be obtained through a direct purchase agreement with the local municipal water company.

6. Source of Construction Material:

- a. No construction materials will be removed from Ute Tribal, SITLA or BLM lands.
- b. If any gravel is used, it will be obtained from a State-approved gravel pit.

7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application will be contained and disposed of utilizing approved facilities.
- b. Drill cuttings will be contained and buried onsite.
- c. The reserve pit will be located outboard of the location and along the northwest side of the pad.
- d. The reserve pit will be constructed so as not to leak, break, or allow any discharge.
- e. The reserve pit will be lined with 12-mil minimum thickness plastic nylon-reinforced liner material. The liner will overlay a felt pad only if rock is encountered during excavation. The pit liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash, scrap pipe, etc., that could puncture the liner will be disposed of in the pit. Pit walls will be sloped no greater than 2:1. A minimum 2-foot freeboard will be maintained in the pit at all times during the drilling and completion operation.
- f. The reserve pit has been located in cut material. Three sides of the reserve pit will be fenced before drilling starts. The fourth side will be fenced as soon as drilling is completed, and shall remain until the pit is dry. After the reserve pit has dried, all areas not needed for production will be rehabilitated.
- g. Trash will be contained in a trash cage and hauled away to an approved disposal site as necessary but no later than at the completion of drilling operations. The contents of the trash container will be hauled off periodically to the approved Uintah County Landfill near Vernal, Utah.
- h. Produced fluids from the well other than water will be produced into a test tank until such time as construction of production facilities is completed. Any spills of oil, gas, saltwater or other produced fluids will be cleaned up and removed.
- i. Any salts and/or chemicals, which are an integral part of the drilling system, will be disposed of in the same manner as the drilling fluid.
- j. Sanitary facilities will be onsite at all times during operations. Sewage will be placed in a portable chemical toilet and the toilet replaced periodically utilizing a licensed contractor to transport by truck the portable chemical toilet so that its contents can be delivered to the Vernal Wastewater Treatment Facility in accordance with State and County regulations.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets are the only ancillary facilities proposed in this application.

9. Well Site Layout:

- a. The well will be properly identified in accordance with State regulations.
- b. Access to the well pad will be from the south and west.
- c. The pad and road designs are consistent with State and Federal specifications.
- d. A pre-construction meeting with responsible company representative, contractors, landowner representatives and the Utah Division of Oil, Gas and Mining will be conducted at the project site prior to commencement of surface-disturbing activities. The pad and road will be construction-staked prior to this meeting.
- e. The pad has been staked at its maximum size; however, it will be constructed smaller if possible, depending upon rig availability. Should the layout change, this application will be amended and approved utilizing a sundry notice.
- f. All surface disturbing activities will be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specification in the approved plans.
- g. All cut and fill slopes will be such that stability can be maintained for the life of the activity.
- h. The site surface will be graded to drain away from the pit to avoid pit spillage during large storm events.
- i. The stockpiled topsoil (first 6 inches or maximum available) will be stored in a window on the uphill side of the location to prevent any possible contamination. All topsoil will be stockpiled for reclamation in such a way as to prevent soil loss and contamination.
- j. Pits will remain fenced until site cleanup.
- k. The blooie line will be located at least 100 feet from the well head.
- l. Water injection may be implemented if necessary to minimize the amount of fugitive dust.

10. Plans for Restoration of the Surface:

- a. Sit reclamation for a producing well will be accomplished for portions of the site not required for the continued operation of the well.
- b. The Operator will control noxious weeds along access road use authorizations, well sites, or other applicable facilities by spraying or mechanical removal. A list of noxious weeds may be obtained from the Utah Division of Oil, Gas and Mining or the appropriate County Extension Office.
- c. Upon well completion, any hydrocarbons in the pit shall be removed. Once the reserve pit is dry, the plastic nylon-reinforced liner shall be torn and perforated before backfilling of the reserve pit. The reserve pit and

that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours.

- d. The cut and fill slopes and all other disturbed areas not needed for the production operation will be top soiled and re-vegetated. The stockpiled topsoil will be evenly distributed over the disturbed area.
- e. Prior to reseeding the site, all disturbed areas, including the access road, will be scarified and left with a rough surface. The site will then be seeded and/or planted as prescribed by the landowner. The landowner recommended seed mix will be detailed within their surface-use documents.

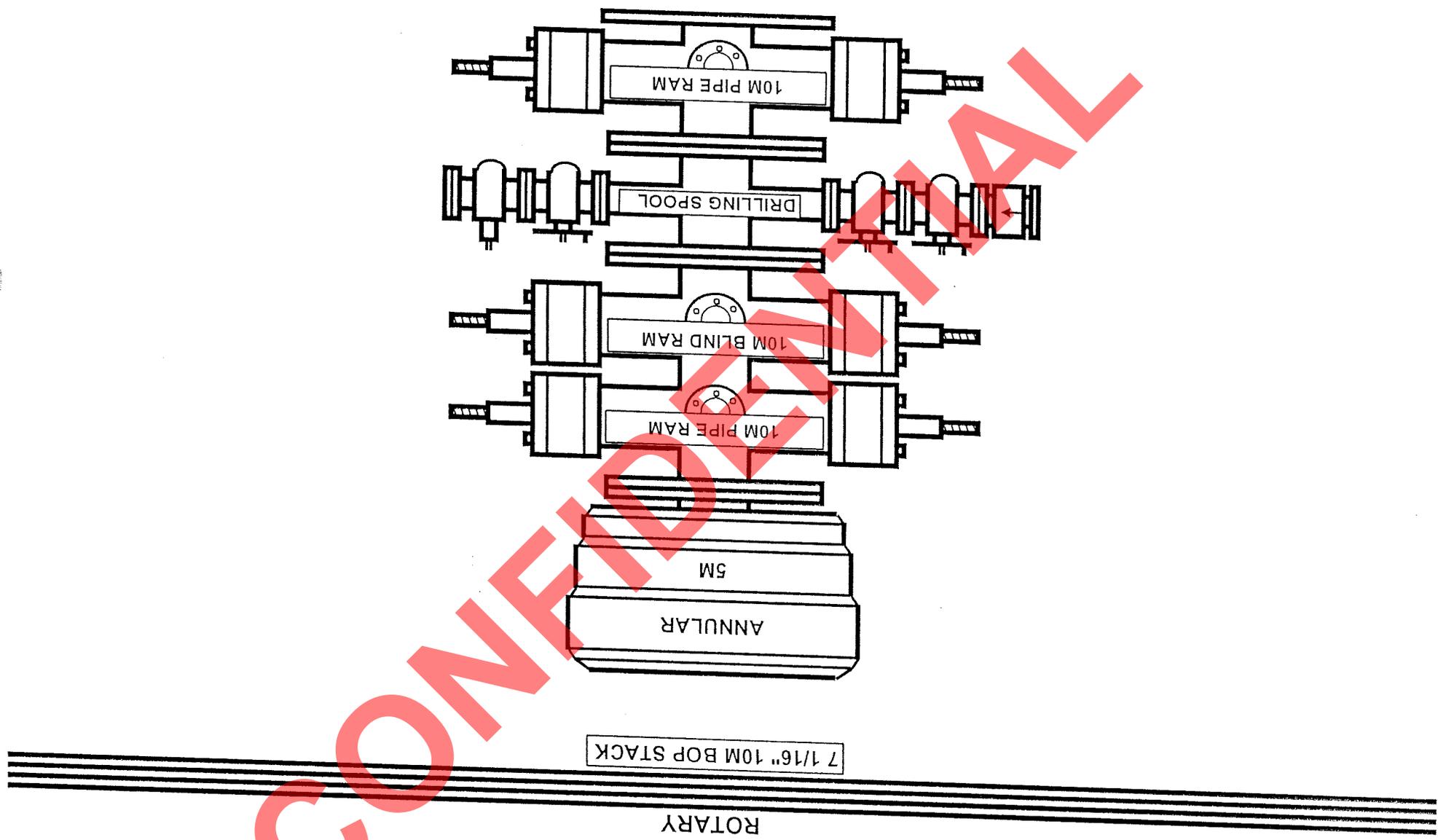
11. Surface and Mineral Ownership:

- a. Surface Ownership: Blaine M. Argyle and Ellen T. Argyle, HC 69, Box 143, Randlett, Utah, 84063, (435) 545-2437
- b. Mineral Ownership: Blaine M. Argyle and Ellen T. Argyle

12. Other Information:

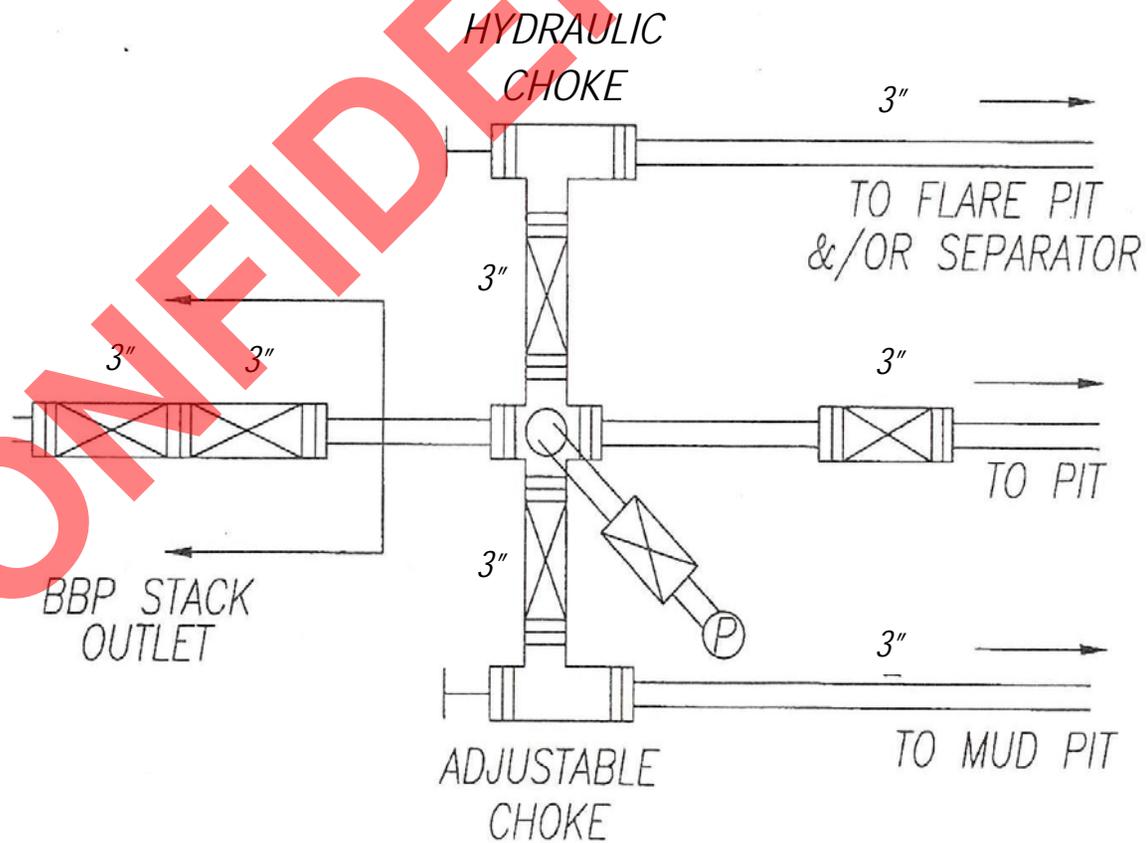
- a. A fee surface damage agreement with Blaine M. Argyle and Ellen T. Argyle

CONFIDENTIAL



TYPICAL BLOWOUT PREVENTER

CHOKE MANIFOLD





March 3, 2011

Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

RE: Exception Location
Argyle 8-43
212' FSL, 2432' FEL
SWSE Section 8-7S-20E
Uintah County, UT

To Whom It May Concern:

Please refer to the State Oil & Gas Conservation Rule R649-3-3. The Argyle 8-43 is an exception to siting requirements of R649-3-2 because it is not located within 200 feet from the center of the 40-acre quarter-quarter section.

The exception is necessary to accommodate the request of the surface owner to avoid placing the well and access road in the center of an irrigated hay pasture.

This proposed well location is within the Aurora "Deep" Unit which Elk Resources, LLC is the operator and controls 100% of the working interest ownership of the adjacent working interest tracts pursuant to a Farmout Agreement with EnCana Oil & Gas (USA), Inc. and the Aurora Deep Unit Operating Agreement. EnCana's Concurrence to this 8-43 location is noted in the Designation of Agent or Operator form (Form 5). There are no additional lease owners within 460 feet of the proposed well location. The proposed well is not being drilled less than 920 feet from any other well capable of producing oil or gas. See attached plat.

If you have any questions, please contact me.

Thank you,

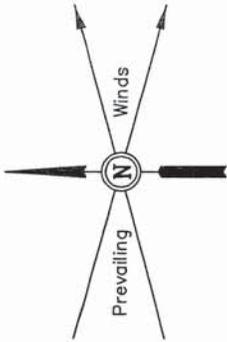
Merrell Olsen
Engineer I

ELK RESOURCES, INC.

LOCATION LAYOUT FOR

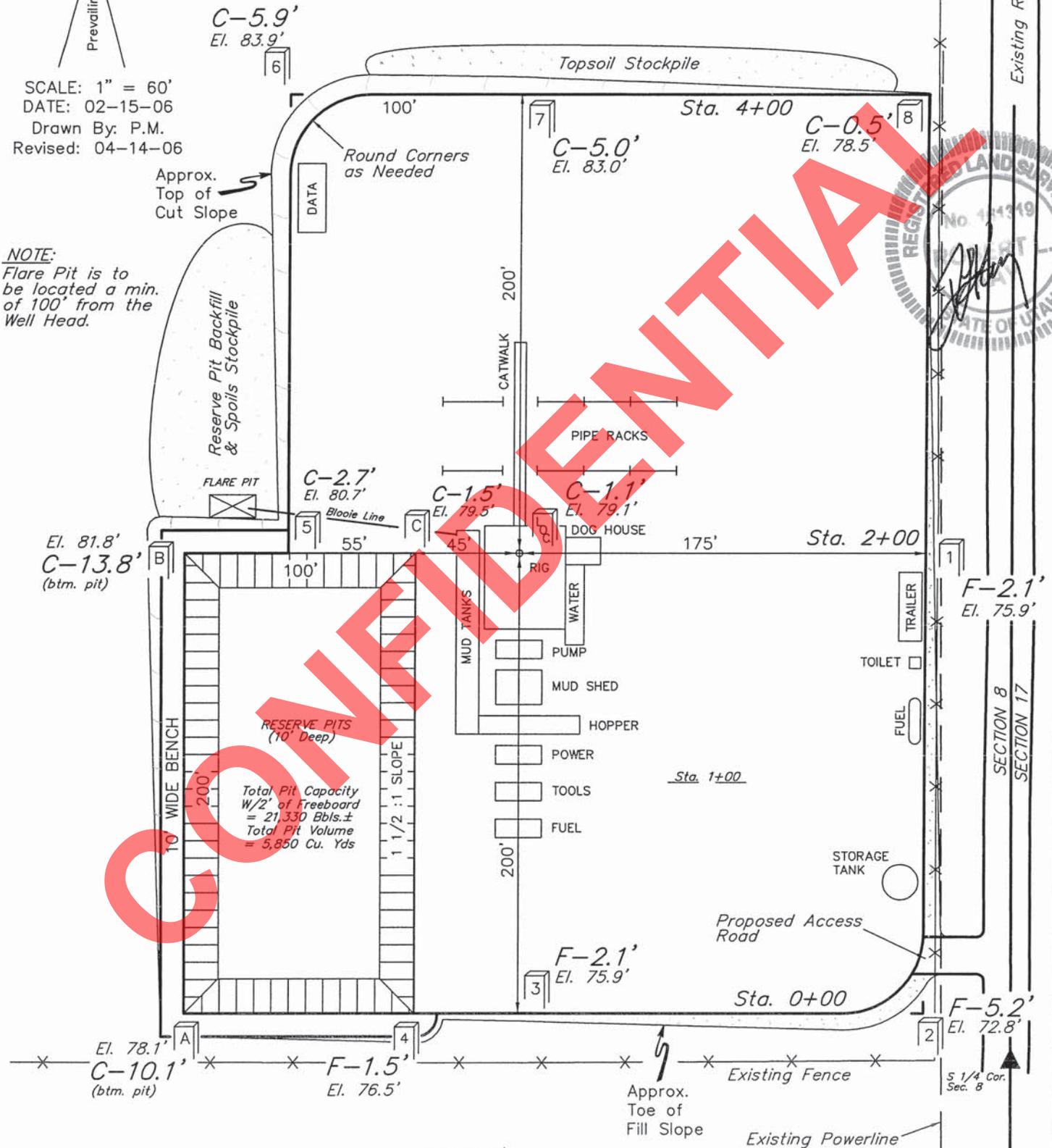
ARGYLE #8-43
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL

FIGURE #1



SCALE: 1" = 60'
DATE: 02-15-06
Drawn By: P.M.
Revised: 04-14-06

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



Elev. Ungraded Ground at Location Stake = 4879.1'
Elev. Graded Ground at Location Stake = 4878.0'

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

ELK RESOURCES, INC.

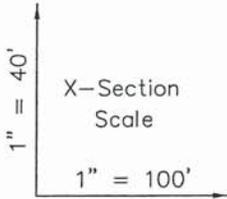
FIGURE #2

TYPICAL CROSS SECTIONS FOR

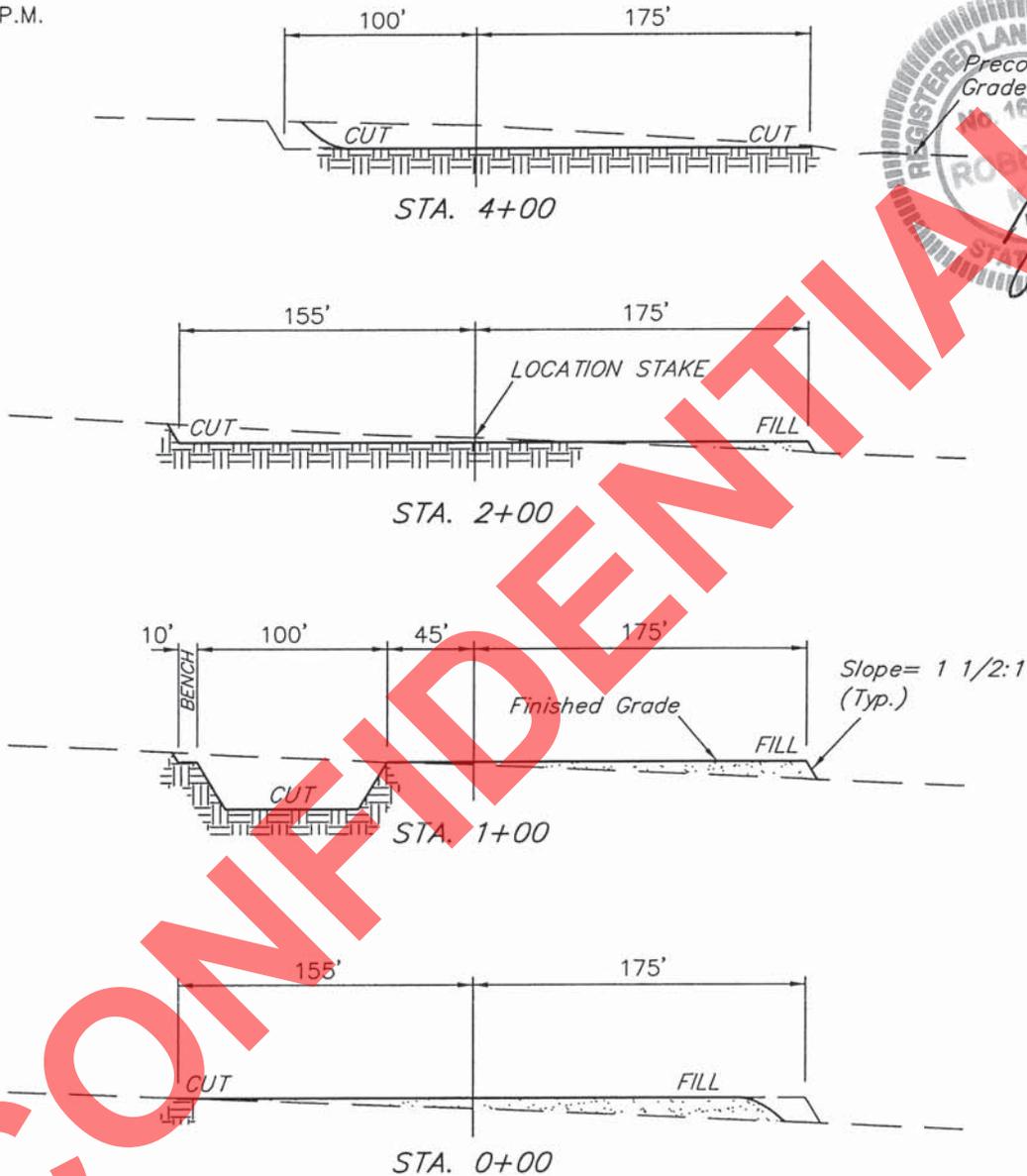
ARGYLE #8-43

SECTION 8, T7S, R20E, S.L.B.&M.

212' FSL 2432' FEL



DATE: 02-15-06
Drawn By: P.M.



NOTE:

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

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT		
(12") Topsoil Stripping	=	4,870 Cu. Yds.
Remaining Location	=	8,780 Cu. Yds.
TOTAL CUT	=	13,650 CU.YDS.
FILL	=	5,850 CU.YDS.

EXCESS MATERIAL	=	7,800 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	=	7,800 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	=	0 Cu. Yds.

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

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

March 3, 2011

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2011 Plan of Development Aurora 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 well is planned for calendar year 2011 within the Aurora Unit, Uintah Counties, Utah.

API#	WELL NAME	LOCATION
(Proposed PZ MANCOS)		
43-047-51509	Argyle 8-43 Sec 08 T07S R20E 0212 FSL 2432 FEL	

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, ou=Bureau of Land Management, ou=Branch of Minerals,
email=Michael_Coulthard@blm.gov, c=US
Date: 2011.03.03 11:10:36 -0700

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

MCoulthard:mc:3-3-11

RECEIVED: May. 11, 2011

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 Argyle 8-43							
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT							
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME AURORA (DEEP)							
6. NAME OF OPERATOR ELK RESOURCES, LLC						7. OPERATOR PHONE 303 296-4505							
8. ADDRESS OF OPERATOR 1401 17th Street, Suite 700, Denver, CO, 80202						9. OPERATOR E-MAIL jwhisler@elkresources.net							
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Blaine M. Argyle & Ellen T. Argyle						14. SURFACE OWNER PHONE (if box 12 = 'fee') 435-545-2437							
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') HC 69, Box 143, Randlett, UT84063						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')							
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
20. LOCATION OF WELL		FOOTAGES		QTR-QTR		SECTION		TOWNSHIP		RANGE		MERIDIAN	
LOCATION AT SURFACE		212 FSL 2432 FEL		SWSE		8		7.0 S		20.0 E		S	
Top of Uppermost Producing Zone		212 FSL 2432 FEL		SWSE		8		7.0 S		20.0 E		S	
At Total Depth		212 FSL 2432 FEL		SWSE		8		7.0 S		20.0 E		S	
21. COUNTY UINTAH				22. DISTANCE TO NEAREST LEASE LINE (Feet) 212				23. NUMBER OF ACRES IN DRILLING UNIT 40					
				25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 4863				26. PROPOSED DEPTH MD: 15700 TVD: 15700					
27. ELEVATION - GROUND LEVEL 4879				28. BOND NUMBER B000969				29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE MUNICIPAL					

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	17.5	13.375	0-500	48.0	H-40 ST&C	8.3	Halliburton Light , Type Unknown	185	1.78	12.8
							Type V	225	1.2	15.6
I1	12.25	9.625	0-5000	40.0	J-55 ST&C	8.6	50/50 Poz	705	1.25	14.3
							50/50 Poz	750	1.98	12.5
							Premium Plus	125	1.19	15.6
I2	8.75	7	0-10500	26.0	P-110 LT&C	9.0	50/50 Poz	160	1.41	14.4
							Unknown	315	3.81	11.0
							50/50 Poz	480	1.41	14.4
Prod	6.25	4.5	0-15700	13.5	P-110 LT&C	12.0	50/50 Poz	365	1.41	14.35
							50/50 Poz	145	1.41	14.35

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORCANCE 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 checked="" type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Merrell Olsen	TITLE Engineer I	PHONE 303 339-1919
SIGNATURE	DATE 03/02/2011	EMAIL molsen@delekenegyus.com
API NUMBER ASSIGNED 43047515090000		APPROVAL

DRILLING PLAN

Elk Resources, Inc.
Argyle 8-43
SW/SE of Section 8, T-7-S, R-20-E, S.L.B. & M.
Uintah County, Utah

1,2,3 **Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<u>Formation</u>	<u>Depth</u>
Uinta	1365'
Green River	3720'*
Wasatch	7600'*
Mesaverde	11200'*
Castlegate	14385'
Mancos	14565'
Mancos B	15229'*
Proposed TD	15700'

PROSPECTIVE PAY* oil and gas

4 **Casing Program**

<u>HOLE SIZE</u>	<u>SETTING DEPTH</u>		<u>SIZE</u>	<u>WEIGHT</u>	<u>GRADE</u>	<u>THREAD</u>	<u>COND.</u>
	<u>from</u>	<u>to</u>					
26"	surface	40'	20"				
17 1/2"	surface	500'	13 3/8"	48#	H-40	ST&C	New
12 1/4"	surface	5,000'	9 5/8"	40#	J-55	ST&C	New
8 3/4"	surface	10,500'	7"	26#	P-110	LT&C	New
6 1/4"	surface	15,700'	4 1/2"	13.5#	P-110	LT&C	New

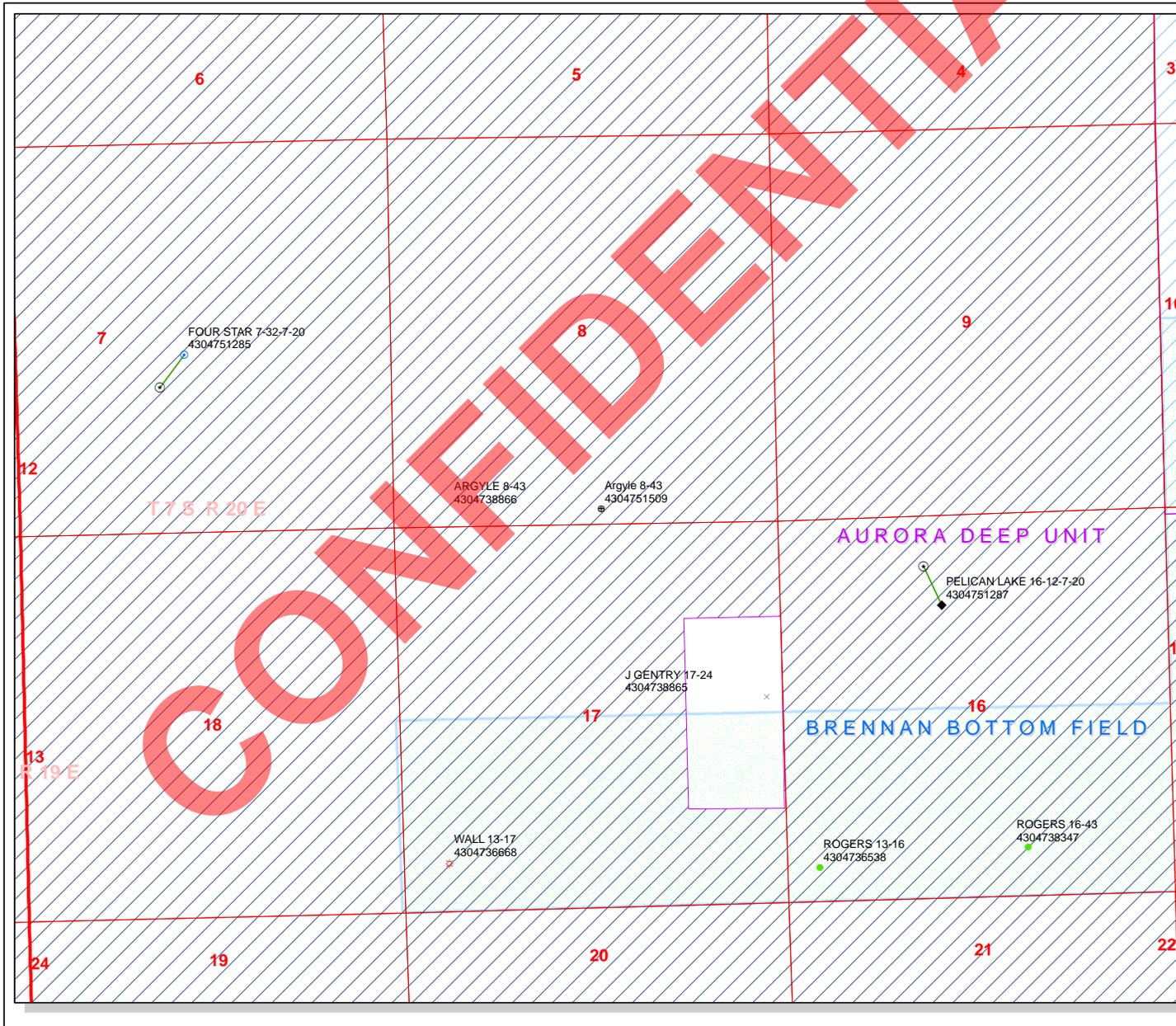
5 **Cementing Program** (Volumes other than tail volumes will be calculated from caliper logs.)

20" Conductor Ready mix

13-3/8" Surface Lead: 185 sx light wt. with 1% CaCl and 1/4 lb/sx celloflake mixed 12.8 lb/gal., 1.78 cf/sk yield (75% excess on total volume).
Tail: 225 sx Type V with 2% CaCl and 1/4 lb/sx celloflake mixed 15.6 lb/gal., 1.2 cf/sk yield.

9 5/8" Intermediate Stage 1: 705 sx 50-50 Pozmix with 2% CaCl and LCM mixed at 14.3 ppg, 1.25 cf/sk yield.

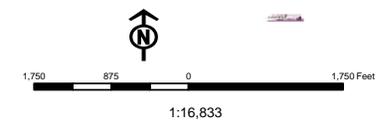
DV @ ±3200' Stage 2: Lead 750 sx 50-50 Pozmix with 8% bentonite and 10% Cal-Seal mixed at 12.5 ppg, 1.98 cf/sk yield; Second stage tail: 125 sx Premium Plus V with 1% CaCl mixed at 15.6 ppg, 1.19 cf/sk yield.
(Estimated top of cement second stage at surface with 65% excess).



API Number: 4304751509
Well Name: Argyle 8-43
Township T0.7 . Range R2.0 . Section 08
Meridian: SLBM
 Operator: ELK RESOURCES, INC.

Map Prepared:
 Map Produced by Diana Mason

- | Units | Wells Query |
|---------------|------------------------------------|
| STATUS | Status |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LA - Location Abandoned |
| PI OIL | LOC - New Location |
| PP GAS | OPS - Operation Suspended |
| PP GEOTHERML | PA - Plugged Abandoned |
| PP OIL | PGW - Producing Gas Well |
| SECONDARY | POW - Producing Oil Well |
| TERMINATED | RET - Returned APD |
| Fields | SGW - Shut-in Gas Well |
| Unknown | SOW - Shut-in Oil Well |
| ABANDONED | TA - Temp. Abandoned |
| ACTIVE | TW - Test Well |
| COMBINED | WDW - Water Disposal |
| INACTIVE | WIW - Water Injection Well |
| STORAGE | WSW - Water Supply Well |
| TERMINATED | |
| Sections | |
| Township | |



Well Name	ELK RESOURCES, LLC Argyle 8-43 43047515090000			
String	Surf	I1	I2	Prod
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	500	5000	10500	15700
Previous Shoe Setting Depth (TVD)	0	500	5000	10500
Max Mud Weight (ppg)	8.3	8.6	9.0	12.0
BOPE Proposed (psi)	0	5000	5000	10000
Casing Internal Yield (psi)	1730	3950	9950	12410
Operators Max Anticipated Pressure (psi)	9500			11.6

Calculations	Surf String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	216	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	156	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	106	NO Reasonable depth
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	106	NO
Required Casing/BOPE Test Pressure=		500	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2236	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1636	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1136	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1246	NO Reasonable
Required Casing/BOPE Test Pressure=		2765	psi
*Max Pressure Allowed @ Previous Casing Shoe=		500	psi *Assumes 1psi/ft frac gradient

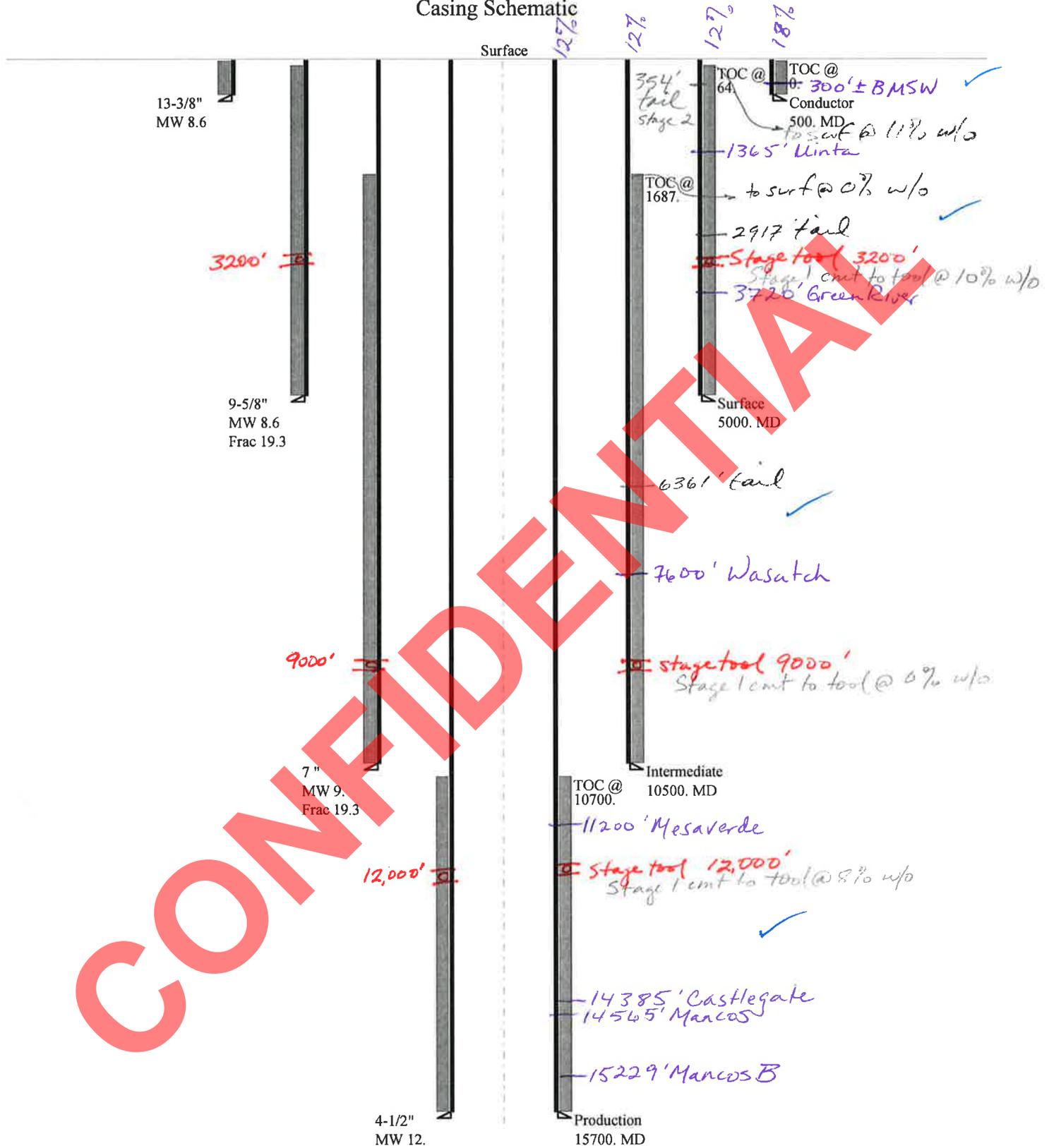
Calculations	I2 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4914	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3654	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2604	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	3704	YES OK
Required Casing/BOPE Test Pressure=		6965	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3950	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	9797	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7913	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	6343	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	8653	YES OK
Required Casing/BOPE Test Pressure=		8687	psi

CONFIDENTIAL

43047515090000 Argyle 8-43

Casing Schematic



Well name:	43047515090000 Argyle 8-43		
Operator:	ELK RESOURCES, LLC	Project ID:	43-047-51509
String type:	Conductor		
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 8.600 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 81 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: Surface

Burst

Max anticipated surface pressure: 163 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 223 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 437 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	500	13.375	48.00	H-40	ST&C	500	500	12.59	6201
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	223	740	3.313	223	1730	7.74	24	322	13.42 J

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

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

Date: May 3, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047515090000 Argyle 8-43		
Operator:	ELK RESOURCES, LLC	Project ID:	43-047-51509
String type:	Surface		
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 8.600 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 144 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 64 ft

Burst

Max anticipated surface pressure: 2,599 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 3,699 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 4,360 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 10,500 ft
 Next mud weight: 9.000 ppg
 Next setting BHP: 4,909 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 5,000 ft
 Injection pressure: 5,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5000	9.625	40.00	J-55	ST&C	5000	5000	8.75	43527
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2234	2570	1.151	3699	3950	1.07	200	452	2.26 J

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

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

Date: May 3, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5000 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047515090000 Argyle 8-43		
Operator:	ELK RESOURCES, LLC	Project ID:	43-047-51509
String type:	Intermediate		
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 9.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 221 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: 1,687 ft

Burst

Max anticipated surface pressure: 6,333 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 8,643 psi

No backup mud specified.

Tension:

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

Tension is based on air weight.
 Neutral point: 9,074 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 15,700 ft
 Next mud weight: 12.000 ppg
 Next setting BHP: 9,787 psi
 Fracture mud wt: 19.250 ppg
 Fracture depth: 10,500 ft
 Injection pressure: 10,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10500	7	26.00	P-110	LT&C	10500	10500	6.151	109145
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4909	6230	1.269	8643	9950	1.15	273	693	2.54 J

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

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

Date: May 3, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10500 ft, a mud weight of 9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047515090000 Argyle 8-43		
Operator:	ELK RESOURCES, LLC		Project ID:
String type:	Production		43-047-51509
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 294 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: 10,700 ft

Burst

Max anticipated surface pressure: 6,333 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 9,787 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
 Neutral point: 12,919 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	15700	4.5	13.50	P-110	LT&C	15700	15700	3.795	87972
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	8971	10680	1.190	9787	12410	1.27	174.4	338	1.94 J

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

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

Date: May 3, 2011
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 15700 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator ELK RESOURCES, LLC
Well Name Argyle 8-43
API Number 43047515090000 **APD No** 3499 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SWSE **Sec** 8 **Tw** 7.0S **Rng** 20.0E 212 **FSL** 2432 **FEL**
GPS Coord (UTM) 611205 4452617 **Surface Owner** Blaine M. Argyle & Ellen T. Argyle

Participants

Floyd Bartlett (DOGM) Craig Parker (Elk Resources, INC).

Regional/Local Setting & Topography

The general location is in Ouray Park north of the northwest end of Pelican Lake. Ouray Park forms a large gentle valley which slopes southeasterly to the Green River several miles south of the proposed well site. The park continues northerly about 1 mile and abruptly ends at the base of steep elevated hills rimmed with reddish sandstone bedrock. Pelican Lake is augmented by a storage dam and stores irrigation water. Much of the area in the north end Ouray Park is used for agricultural lands irrigated with sprinkler systems. Pelican Lake is a very popular warm water fishery. Distance to the location is southwesterly from Vernal, Utah approximately 21.5 miles over State of Utah and Uintah County highways or roads to within 30 feet.

Surface Use Plan

Current Surface Use

Grazing
Agricultural
Recreational
Wildlfe Habitat

New Road Miles

0.01

Well Pad

Width 330 **Length** 400

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation has reverted from alfalfa to somewhat native pasture vegetation. Common plants include fox tail, orchard grass, salt grass, sporobolous, milkweed and annual weeds.

Prairie dogs, deer, small mammals and waterfowl.

Soil Type and Characteristics

Surface soil is a deep sandy loam. Cobble rock may be within the depth of the reserve pit.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources?

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	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
Final Score		30	1 Sensitivity Level

Characteristics / Requirements

A reserve pit will be constructed in the northwest corner of the location. It will be lined with a 20-mil liner and a felt sub-liner.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

Other Observations / Comments

Floyd Bartlett
Evaluator

3/22/2011
Date / Time

Application for Permit to Drill

Statement of Basis

5/11/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3499	43047515090000	LOCKED	OW	P	No
Operator	ELK RESOURCES, LLC		Surface Owner-APD	Blaine M. Argyle & Ellen T. Argyle	
Well Name	Argyle 8-43		Unit	AURORA (DEEP)	
Field	UNDESIGNATED		Type of Work	DRILL	
Location	SWSE 8 7S 20E S 212 FSL 2432 FEL GPS Coord (UTM) 611285E 4452621N				

Geologic Statement of Basis

Elk proposes to set 500 feet of surface pipe, cemented to surface. The depth to the base of the moderately saline water at this location is estimated to be at approximately 300 feet. A search of Division of Water Rights records shows 20 water wells within a 10,000 foot radius of the proposed location. The nearest well is approximately 1/2 mile northeast of the proposed location with a depth of 36 feet. Wells in the area are listed for domestic use, irrigation, oil field use and stock watering. Depths of the wells ranges from 16 to 500 feet. Listed wells probably produce from alluvial sediments and the Uinta Formation. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. Wells in the alluvial sediments are probably a more significant source of ground water. The proposed casing and cement should adequately protect any useable ground water.

Brad Hill
APD Evaluator

5/2/2011
Date / Time

Surface Statement of Basis

The general location is in Ouray Park north of the northwest end of Pelican Lake. Ouray Park forms a large gentle valley which slopes southeasterly to the Green River several miles south of the proposed well site. The park continues northerly about 1 mile and abruptly ends at the base of steep elevated hills rimmed with reddish sandstone bedrock. Pelican Lake is augmented by a storage dam and stores irrigation water. Much of the area in the north end Ouray Park is used for agricultural lands irrigated with sprinkler systems. Pelican Lake is a very popular warm water fishery. Distance to the location is southwesterly from Vernal, Utah approximately 21.5 miles over State of Utah and Uintah County highways or roads to within 30 feet.

Terrain at the location is reasonably flat, sloping slightly to the south toward Pelican Lake. Distance from the location to the high waterline of the lake is about 1 1/4 mile. Surface soils are a deep sandy loam probably formed as alluvium in the valley. The site is a wheel-line sprinkled agricultural field. The pad is located in the southwest corner of the field with fences on both the south and west sides. Maximum cut is 5.9 feet at Location Corner 5 and maximum fill is 5.2 feet at Location Corner 2. The Surface of the site is private owned by Blaine and Ellen Argyle. A surface use agreement exists. The minerals are FEE owned by the Argyles. The Argyles residence is about 800 feet to the east. The location was previously permitted in 1996 but never drilled. Mr. Argyle attended this pre-site and was met at his house the morning of the re-pre-site. He said he did not care to go the site with us. He requested the pad be fenced on the east and north with a 48 inch high field fence before any construction occurs. He grazes the area with alpacas. The original and preferred location was staked to the north and east near the center of his pasture land. Through negotiations with Elk Resources it was moved to a corner of his pasture. The well is outside the normal drilling window. Craig Parker of Elk Resources agreed to construct the fence as requested by Mr. Argyle and berm the storage tanks and the outside of the location to reduce potential on-site spills from leaving the location. The selected location appears to be suitable and stable for drilling and operating the well. A signed surface use agreement exists.

Application for Permit to Drill Statement of Basis

5/11/2011

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

3/22/2011
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.

CONFIDENTIAL

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/2/2011

API NO. ASSIGNED: 43047515090000

WELL NAME: Argyle 8-43

OPERATOR: ELK RESOURCES, LLC (N3480)

PHONE NUMBER: 303 339-1919

CONTACT: Merrell Olsen

PROPOSED LOCATION: SWSE 08 070S 200E

Permit Tech Review:

SURFACE: 0212 FSL 2432 FEL

Engineering Review:

BOTTOM: 0212 FSL 2432 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.21852

LONGITUDE: -109.69216

UTM SURF EASTINGS: 611285.00

NORTHINGS: 4452621.00

FIELD NAME: UNDESIGNATED

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): MANCOS

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - B000969
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: MUNICIPAL
- 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: R649-3-3
- Effective Date:
- Siting:
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

- 1 - Exception Location - bhill
- 5 - Statement of Basis - bhill
- 11 - Cement Productive Zones - hmacdonald
- 23 - Spacing - dmason
- 25 - Surface Casing - hmacdonald

RECEIVED: May. 11, 2011



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Argyle 8-43
API Well Number: 43047515090000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 5/11/2011

Issued to:

ELK RESOURCES, LLC, 1401 17th Street, Suite 700, 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 R649-3-3. The expected producing formation or pool is the MANCOS Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

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

General:

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

Conditions of Approval:

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.

Production casing shall be cemented 100' minimum above producing formations encountered while drilling and 100' minimum above any zones tested.

Surface casing shall be cemented to the surface.

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

Additional Approvals:

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

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

Notification Requirements:

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

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

Contact Information:

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

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

Reporting Requirements:

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

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

Approved By:

Approved by:

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

For John Rogers
Associate Director, Oil & Gas

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

FORM 9

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. LEASE DESIGNATION AND SERIAL NUMBER:
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
		7. UNIT or CA AGREEMENT NAME: Aurora (Deep) Unit
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		8. WELL NAME and NUMBER:
2. NAME OF OPERATOR: Elk Resources, LLC N3480		9. API NUMBER:
3. ADDRESS OF OPERATOR: 1401 17th Street, Suite 700 CITY Denver STATE CO ZIP 80202		10. FIELD AND POOL, OR WILDCAT:
PHONE NUMBER: (303) 296-4505		
4. LOCATION OF WELL FOOTAGES AT SURFACE: _____		COUNTY: Uintah
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: _____ 7S 20E S _____		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 (Submit in Duplicate) Approximate date work will start: _____ _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____ _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

Please see the attached "Transfer of APD" forms and list of wells that are included in this change of operator.
Effective Jan 1, 2011

Previous Operator: Elk Resources, LLC 1401 17th Street, Suite 700 Denver, Colorado 80202 303-296-4505 Utah DOGM Bond # B000969 BLM Bond # B000971	New Operator: N2165 Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, Colorado 80202 303-293-9100 Utah DOGM Bond # WYB 000040 BLM Bond # LPM 4138148
---	---

Bill Barrett Corp. Representative:
 NAME (PLEASE PRINT) Huntington T Walker TITLE Sr. VP - Prod.
 SIGNATURE [Signature] DATE 6/8/11

NAME (PLEASE PRINT) John Whisler TITLE CEO
 SIGNATURE [Signature] DATE 6/8/11

(This space for State use only)

APPROVED 7/11/2011
Earlene Russell
 Division of Oil, Gas and Mining
 Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUL 11 2011

DIV. OF OIL, GAS & MINING

ELK RESOURCES, LLC (N3480) to BILL BARRETT CORPORATION (N2165)
 effective January 1, 2011

well name	sec	twp	rng	api	entity	Lease	well	stat	conf	unit	lease no	zone
ROGERS 13-16	16	070S	200E	4304736538	14989	Fee	OW	P		AURORA (DEEP)	FEE	GR-WS
NIELSEN 3-22	22	070S	200E	4304736539	14806	Fee	OW	P		AURORA (DEEP)	FEE	GRRV
WALL 13-17	17	070S	200E	4304736668	15363	Federal	GW	P		AURORA (DEEP)	UTU-75092	BLKHK
ROGERS 16-43	16	070S	200E	4304738347	16977	Fee	OW	P		AURORA (DEEP)	FEE	GR-WS
AURORA FED 5-32	05	070S	200E	4304738463	17120	Federal	OW	P		AURORA (DEEP)	UTU-75241	GR-WS
AURORA FED 26-33	26	070S	200E	4304738468	17226	Federal	OW	P		AURORA (DEEP)	UTU-80689	GRRV
FOUR STAR 7-32-7-20	07	070S	200E	4304751285	17881	Fee	OW	P	C	AURORA (DEEP)	Patent	WSTC
PELICAN LAKE 16-12-7-20	16	070S	200E	4304751287		Fee	OW	APD	C	AURORA (DEEP)	Patent	
ARGYLE 8-43	08	070S	200E	4304751509		Fee	OW	APD	C	AURORA (DEEP)	Fee	

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

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	Argyle 8-43
API number:	43047515090000
Location:	Qtr-Qtr: SWSE Section: 8 Township: 7S Range: 20E
Company that filed original application:	Elk Production, LLC
Date original permit was issued:	05/11/2011
Company that permit was issued to:	Elk Production, LLC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>LPM 4138148</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Tracey Fallang Title Regulatory Manager
 Signature Tracey Fallang Date 7/12/11
 Representing (company name) Bill Barrett Corporation

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on its application for Permit to Drill.

(3/2004)

RECEIVED

JUL 12 2011

DIV. OF OIL, GAS & MINING

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: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
2. NAME OF OPERATOR: BILL BARRETT CORP	8. WELL NAME and NUMBER: AURORA 15-8-7-20
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	9. API NUMBER: 43047515090000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: UNDESIGNATED
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/1/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input checked="" type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

In accordance with Utah Division of Oil, Gas, and Mining's Rule 649-3-22, completion into two or more pools, BBC is submitting this sundry to request commingling approval for the Green River and Wasatch formations. Oil and associated gas composition is similar across all formations. The pressure profile across the formations is similar and BBC does not anticipate any cross flow. Production is considered to be from one pool. In the event that allocation by zone or interval is required, BBC would use representative sampling obtained from production logs and allocate on a percentage basis by zone or interval. A letter and affidavit of notice is attached. Please note, a sundry notice was submitted on 9/12/2011 requesting a name change to the Aurora 15-8-7-20.

Approved by the Utah Division of Oil, Gas and Mining

Date: 10/06/2011

By: *Dark K. Quist*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 9/14/2011	



September 14, 2011

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

RE: Sundry Notices
Aurora Deep Unit
Aurora 15-8-7-20
SWSE, Section 8 T7S R20E
Uintah 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 regard, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION

Veneria Gangmacker
for

Thomas J. Abell
Landman

Enclosures



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 Unit:

Aurora 15-8-7-20 Well SWSE 8 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.

Lessors

BLM State Office
N.J. Meagher, III
A-M, Inc.
Leah Mae. P Chandler
Bert A. Young and Vonnae P. Young

Date: September 14, 2011

Affiant



Thomas J. Abell
Landman



September 14, 2011

Bert A. Young and Vonnae P. Young
PO Box 111
La Point, UT 84039

RE: Sundry Notices
Aurora 15-8-7-20
Uintah County, UT

Dear Sir or Madam,

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

A handwritten signature in blue ink that reads 'Veneva Hangmacker for Thomas J. Abell'. The signature is written in a cursive style.

Thomas J. Abell
Landman

Enclosures



September 14, 2011

BLM State Office
PO Box 45155
Salt Lake City, Utah 84145

RE: Sundry Notices
Aurora 15-8-7-20
Uintah County, UT

Dear Sir or Madam,

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

Venevia Gangmacker
for

Thomas J. Abell
Landman

Enclosures



September 14, 2011

Leah Mae P. Chandler
3004 West South Point Road
South Jordan, UT 84095

RE: Sundry Notices
Aurora 15-8-7-20
Uintah County, UT

Dear Sir or Madam,

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

Venevia Spangmacker
for

Thomas J. Abell
Landman

Enclosures



September 14, 2011

N.J. Meagher, III
9229 HWY 73
Evergreen, CO 80439

RE: Sundry Notices
Aurora 15-8-7-20
Uintah County, UT

Dear Sir or Madam,

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

Veneva Gaymacker
for

Thomas J. Abell
Landman

Enclosures



September 14, 2011

A-M, Inc.
6 Bret Hart Avenue
Reno, NV 89509

RE: Sundry Notices
Aurora 15-8-7-20
Uintah County, UT

Dear Sir or Madam,

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.

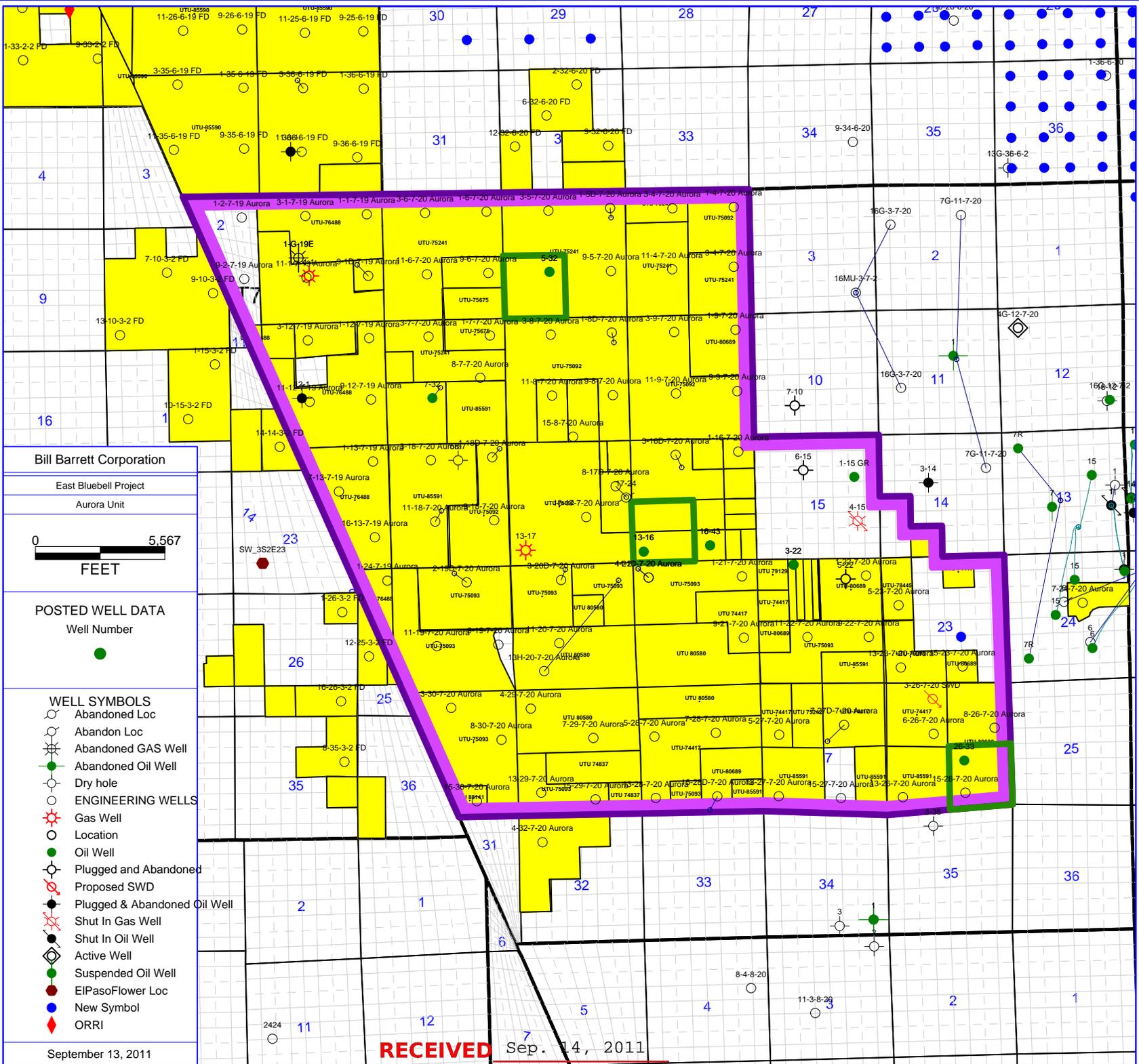
Should you require additional information in this regards, please feel free to contact me at 303-299-9935. Your earliest attention to this matter is appreciated.

BILL BARRETT CORPORATION

A handwritten signature in blue ink that reads 'Thomas J. Abell' with a small 'for' written below it.

Thomas J. Abell
Landman

Enclosures



Bill Barrett Corporation
 East Bluebell Project
 Aurora Unit



POSTED WELL DATA

Well Number
●

- WELL SYMBOLS**
- Abandoned Loc
 - ⊗ Abandon Loc
 - ⊗ Abandoned GAS Well
 - Abandoned Oil Well
 - Dry hole
 - ENGINEERING WELLS
 - ★ Gas Well
 - Location
 - Oil Well
 - ⊗ Plugged and Abandoned
 - Proposed SWD
 - Plugged & Abandoned Oil Well
 - Shut In Gas Well
 - Shut In Oil Well
 - ⊗ Active Well
 - Suspended Oil Well
 - ElPasoFlower Loc
 - New Symbol
 - ◆ ORRI

September 13, 2011

RECEIVED Sep. 14, 2011

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: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
2. NAME OF OPERATOR: BILL BARRETT CORP	8. WELL NAME and NUMBER: AURORA 15-8-7-20
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	9. API NUMBER: 43047515090000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: UNDESIGNATED
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/1/2011	<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 checked="" 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: 50px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

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

BBC is requesting to change the well name from Argyle 8-43 to Aurora 15-8-7-20. Along with this name change, BBC would like to change the objective formation from the Mancos to Green River and Wasatch. A commingling sundry was submitted on 9/14/2011. Attached please find the revised drilling program along with the proposed water use/disposal. Also attached are the revised survey plats reflecting the name change and BBC as operator.

Approved by the Utah Division of Oil, Gas and Mining

Date: 10/12/2011

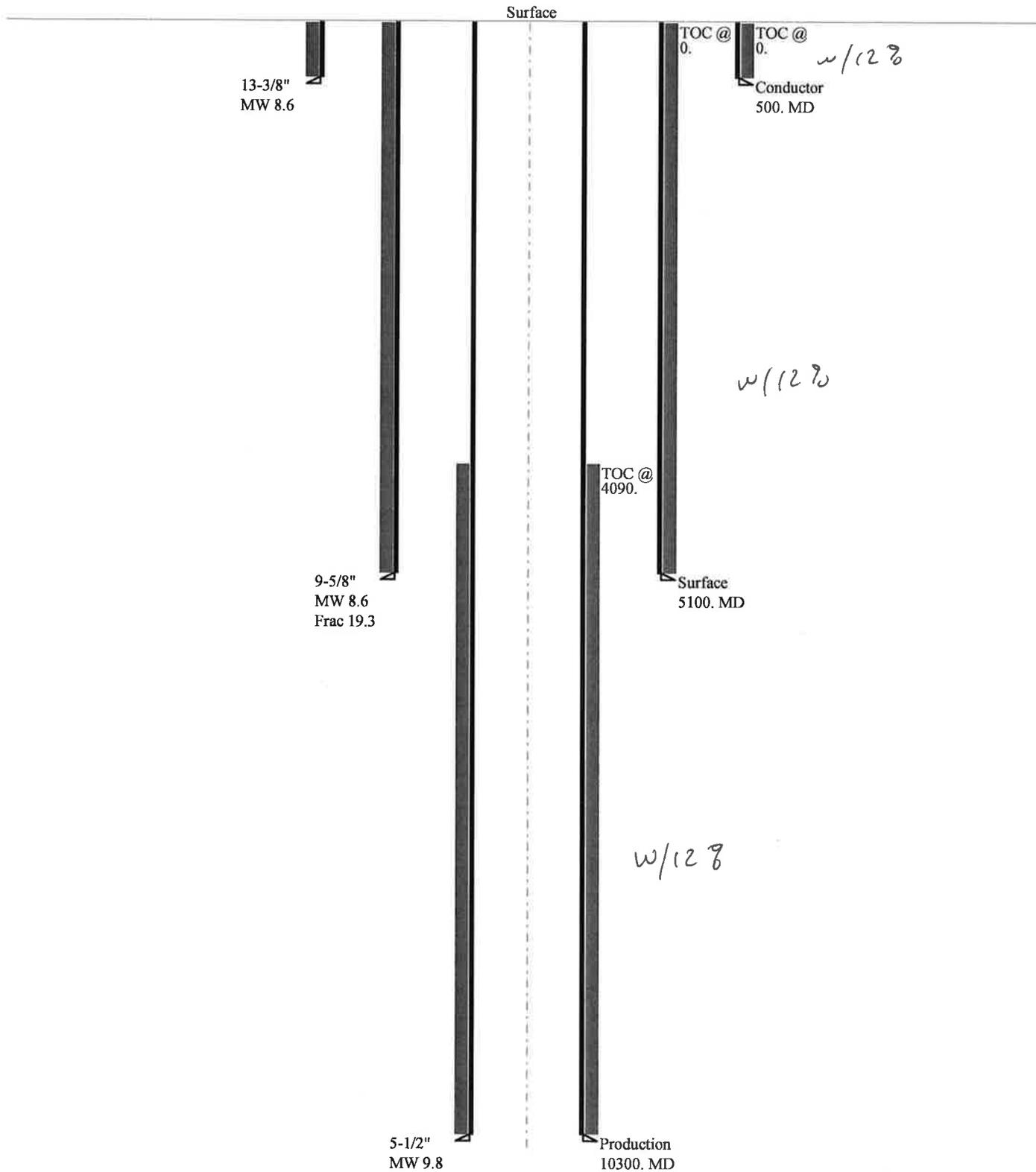
By: *Derek Duff*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 9/30/2011	

43047515090000

rev.

Casing Schematic



Well name:	43047515090000		3rev.
Operator:	Bill Barrett Corp		Project ID:
String type:	Conductor		43-047-51509
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 81 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 163 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 223 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on air weight.
Neutral point: 436 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	500	13.375	54.50	J-55	ST&C	500	500	12.49	6203
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	223	1130	5.060 ✓	223	2730	12.22 ✓	27.2	514	18.87 J ✓

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED Sep. 30, 2011

Well name:	43047515090000	rev.
Operator:	Bill Barrett Corp	
String type:	Surface	Project ID: 43-047-51509
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 145 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 3,035 psi → 5m
Internal gradient: 0.220 psi/ft
Calculated BHP 4,157 psi

Tension:

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

Non-directional string.

Annular backup: 1.00 ppg

Tension is based on air weight.
Neutral point: 4,448 ft

Re subsequent strings:

Next setting depth: 10,500 ft
Next mud weight: 9.800 ppg
Next setting BHP: 5,345 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,100 ft
Injection pressure: 5,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5100	9.625	40.00	J-55	LT&C	5100	5100	8.75	46282
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2278	2570	1.128 ✓	3893	3950	1.01 ✓	204	520	2.55 J ✓

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5100 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43047515090000	rev.
Operator:	Bill Barrett Corp	
String type:	Production	Project ID: 43-047-51509
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 9.800 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 218 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: 4,090 ft

Burst

Max anticipated surface pressure: 2,978 psi *5M*
Internal gradient: 0.220 psi/ft
Calculated BHP 5,244 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 8,769 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10300	5.5	17.00	P-110	LT&C	10300	10300	4.767	67844

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4709	7480	1.589	5244	10640	2.03	149.1	445	2.98 J

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 10300 ft, a mud weight of 9.8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

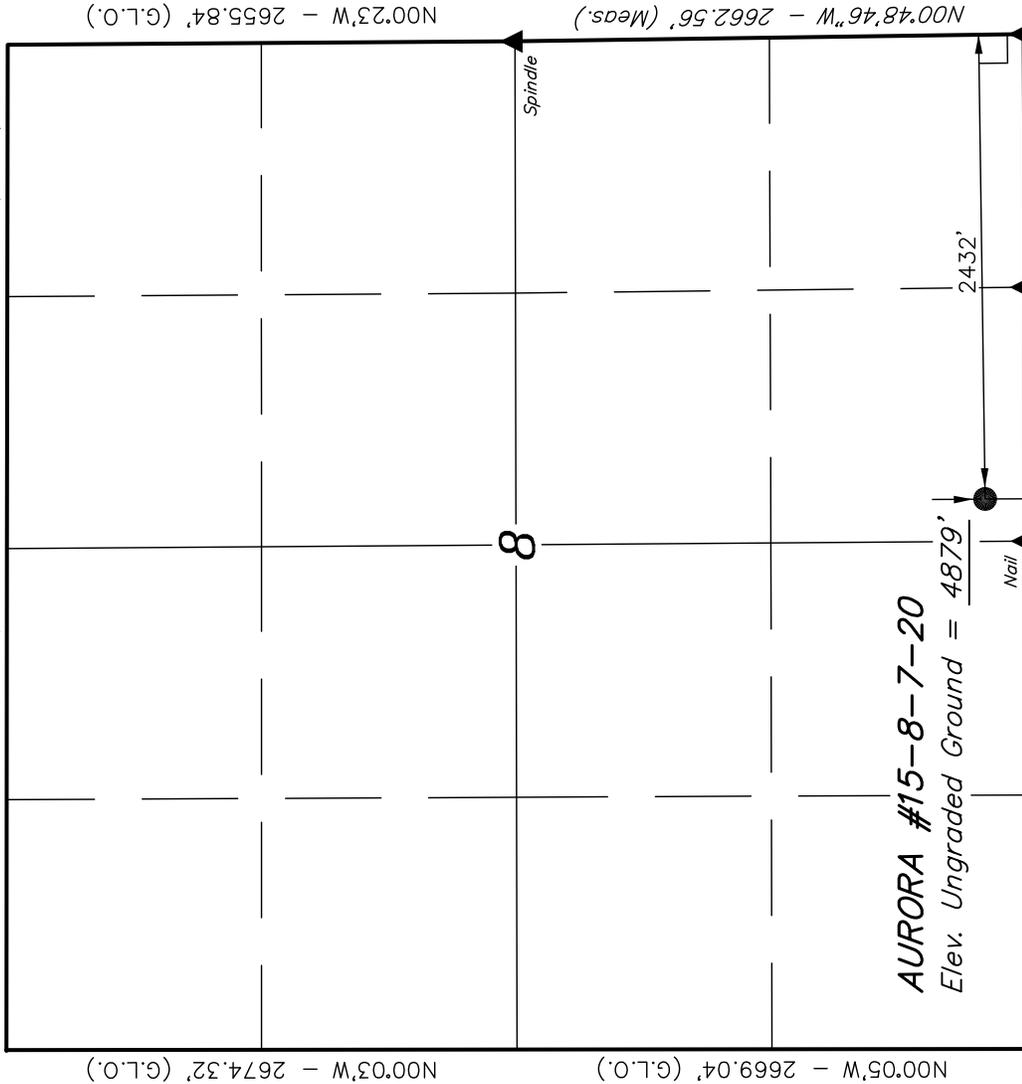
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED Sep. 30, 2011

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

N89°57'W - 2630.76' (G.L.O.) N89°55'W - 2639.34' (G.L.O.)



(AUTONOMOUS NAD 83)
 LATITUDE = 40°13'06.47" (40.218464)
 LONGITUDE = 109°41'34.45" (109.692903)
 (AUTONOMOUS NAD 27)
 LATITUDE = 40°13'06.61" (40.218503)
 LONGITUDE = 109°41'31.94" (109.692206)

LEGEND:
 — = 90° SYMBOL
 ● = PROPOSED WELL HEAD.
 ▲ = SECTION CORNERS LOCATED.

BILL BARRETT CORPORATION

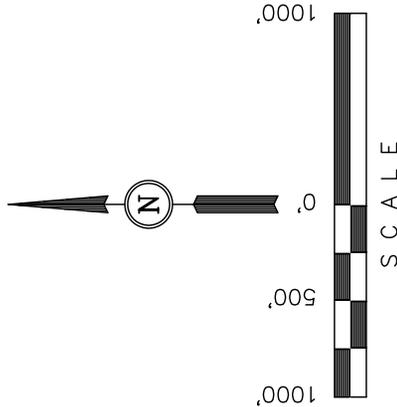
Well location, AURORA #15-8-7-20, located as shown in the SW 1/4 SE 1/4 of Section 8, T7S, R20E, S.L.B.&M. Uintah County, Utah.

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 SERIES (TOPOGRAPHICAL MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 4942 FEET.

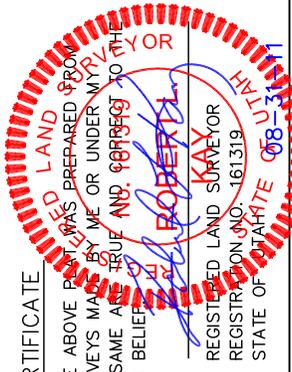
BASIS OF BEARINGS

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



CERTIFICATE

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



REGISTERED LAND SURVEYOR
 REGISTRATION NO. 161319
 STATE OF UTAH

REVISED: 08-31-11 S.L.

UINTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078
 (435) 789-1017

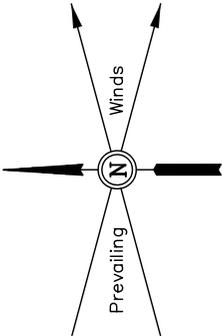
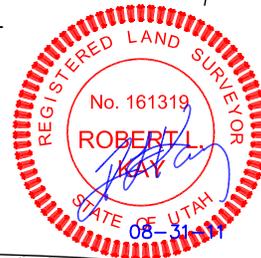
SCALE 1" = 1000'	DATE SURVEYED: 01-26-06	DATE DRAWN: 02-15-06
PARTY D.A. C.F. P.M.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE	BILL BARRETT CORPORATION

BILL BARRETT CORPORATION

FIGURE #1

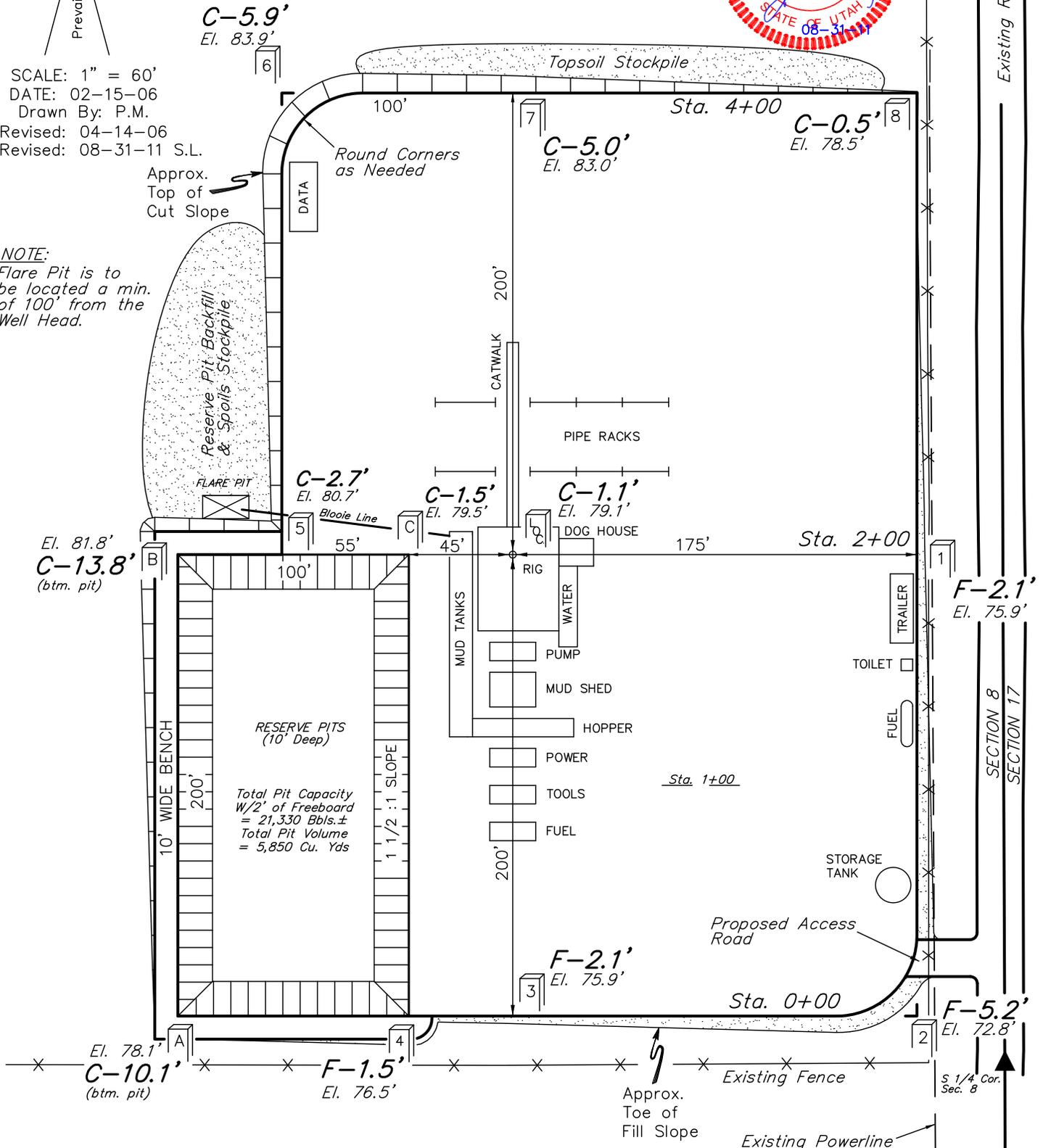
LOCATION LAYOUT FOR

AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL



SCALE: 1" = 60'
DATE: 02-15-06
Drawn By: P.M.
Revised: 04-14-06
Revised: 08-31-11 S.L.

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



Elev. Ungraded Ground at Location Stake = 4879.1'
Elev. Graded Ground at Location Stake = 4878.0'

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

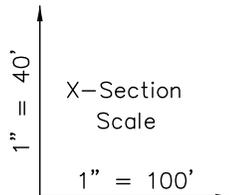
RECEIVED Sep. 30, 2011

BILL BARRETT CORPORATION

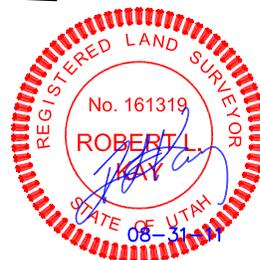
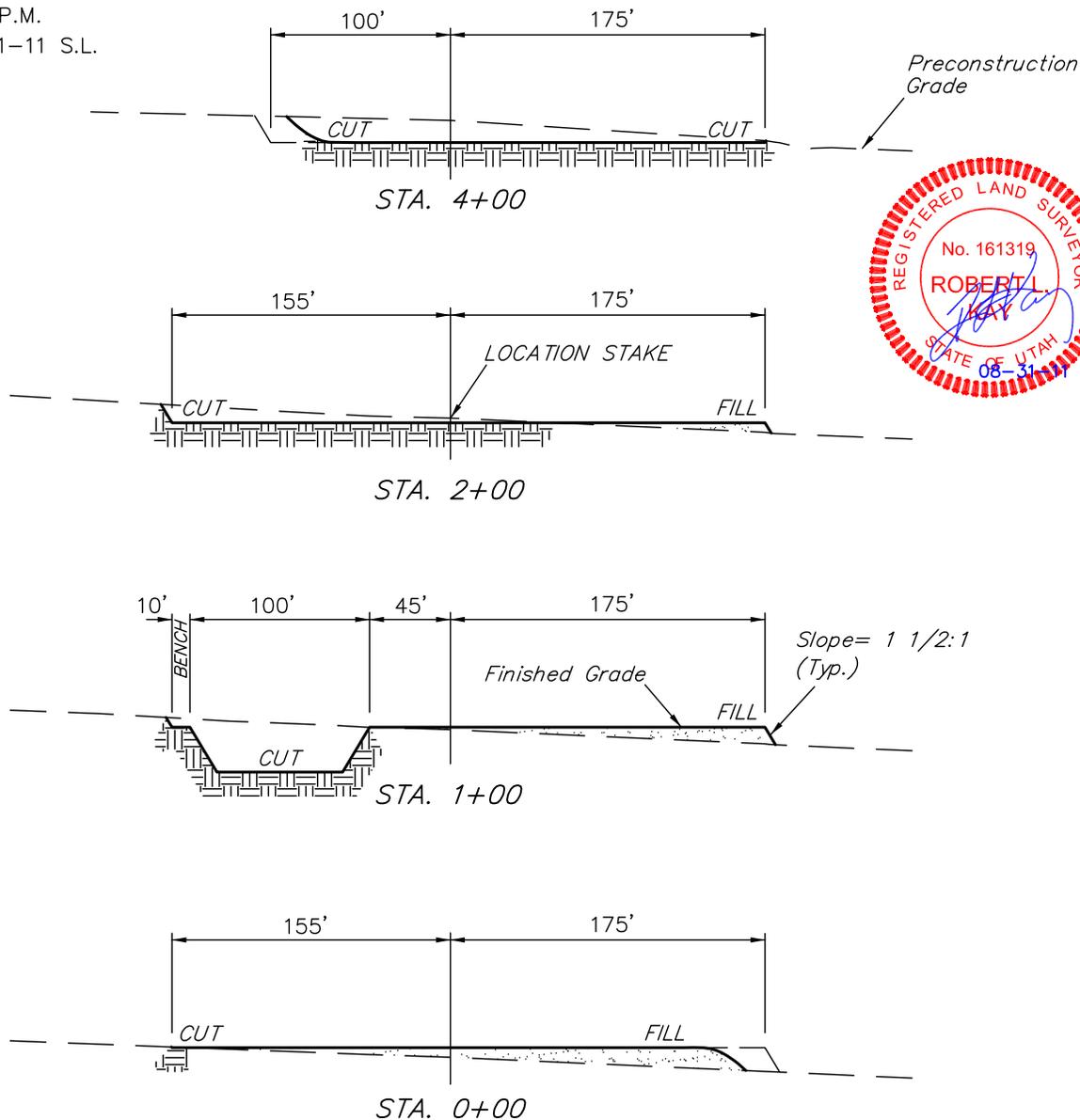
FIGURE #2

TYPICAL CROSS SECTIONS FOR

AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL



DATE: 02-15-06
Drawn By: P.M.
Revised: 08-31-11 S.L.



NOTE:

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

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(12") Topsoil Stripping	= 4,870 Cu. Yds.
Remaining Location	= 8,780 Cu. Yds.
TOTAL CUT	= 13,650 CU.YDS.
FILL	= 5,850 CU.YDS.

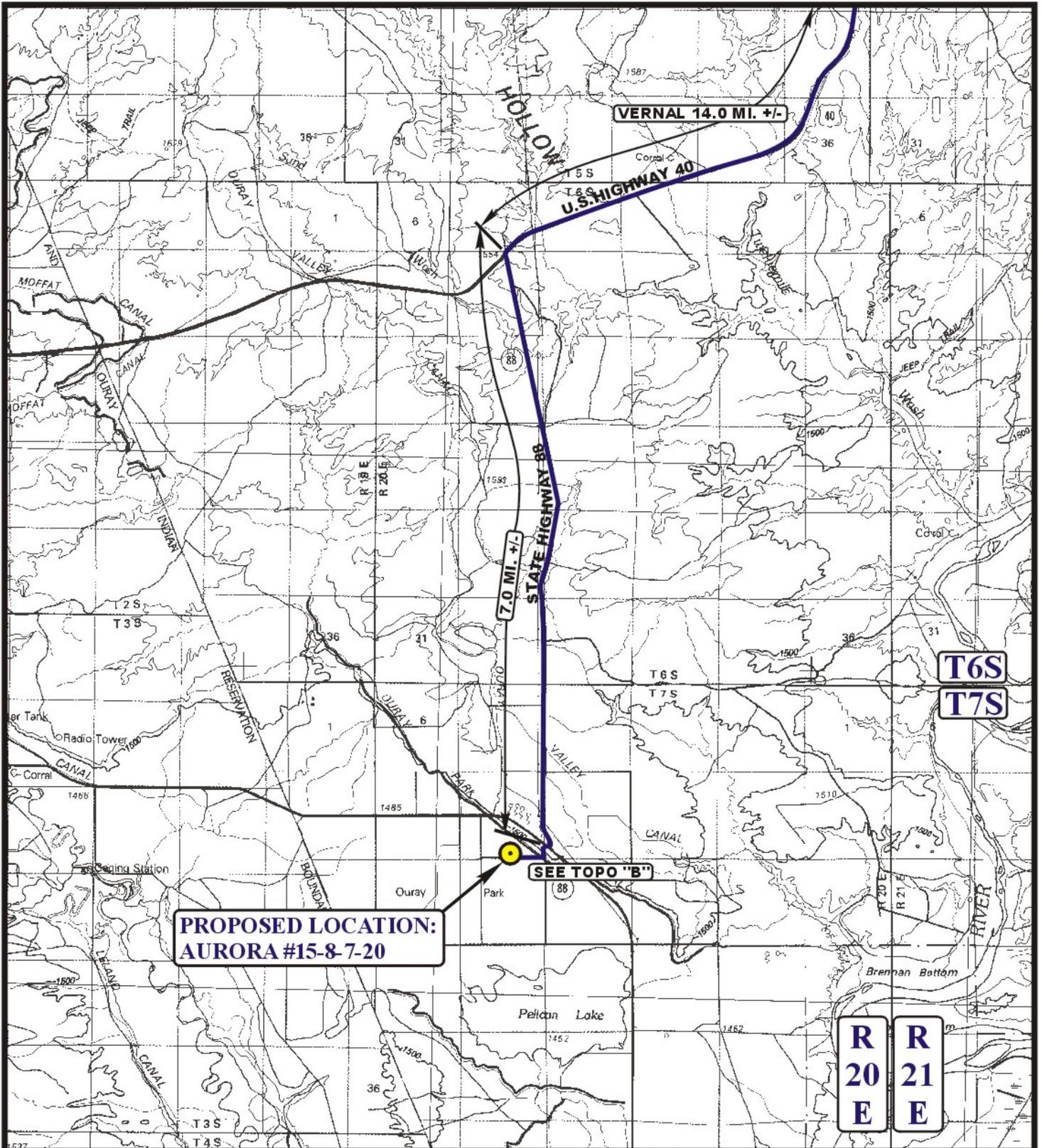
EXCESS MATERIAL	= 7,800 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 7,800 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 0 Cu. Yds.

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

BILL BARRETT CORPORATION
AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.

PROCEED IN A SOUTHWESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 88 TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 7.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 200' TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 0.15 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN RIGHT AND PROCEED IN A WESTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE JUNCTION OF THIS AND THE PROPOSED ACCESS ROAD TO THE NORTH; FOLLOW ROAD FLAGS IN A NORTHERLY DIRECTION APPROXIMATELY 30' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 21.6 MILES.



**PROPOSED LOCATION:
AURORA #15-8-7-20**

SEE TOPO "B"

**T6S
T7S**

**R
20
E** **R
21
E**

LEGEND:

 **PROPOSED LOCATION**



BILL BARRETT CORPORATION

**AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL**



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

**TOPOGRAPHIC
MAP**

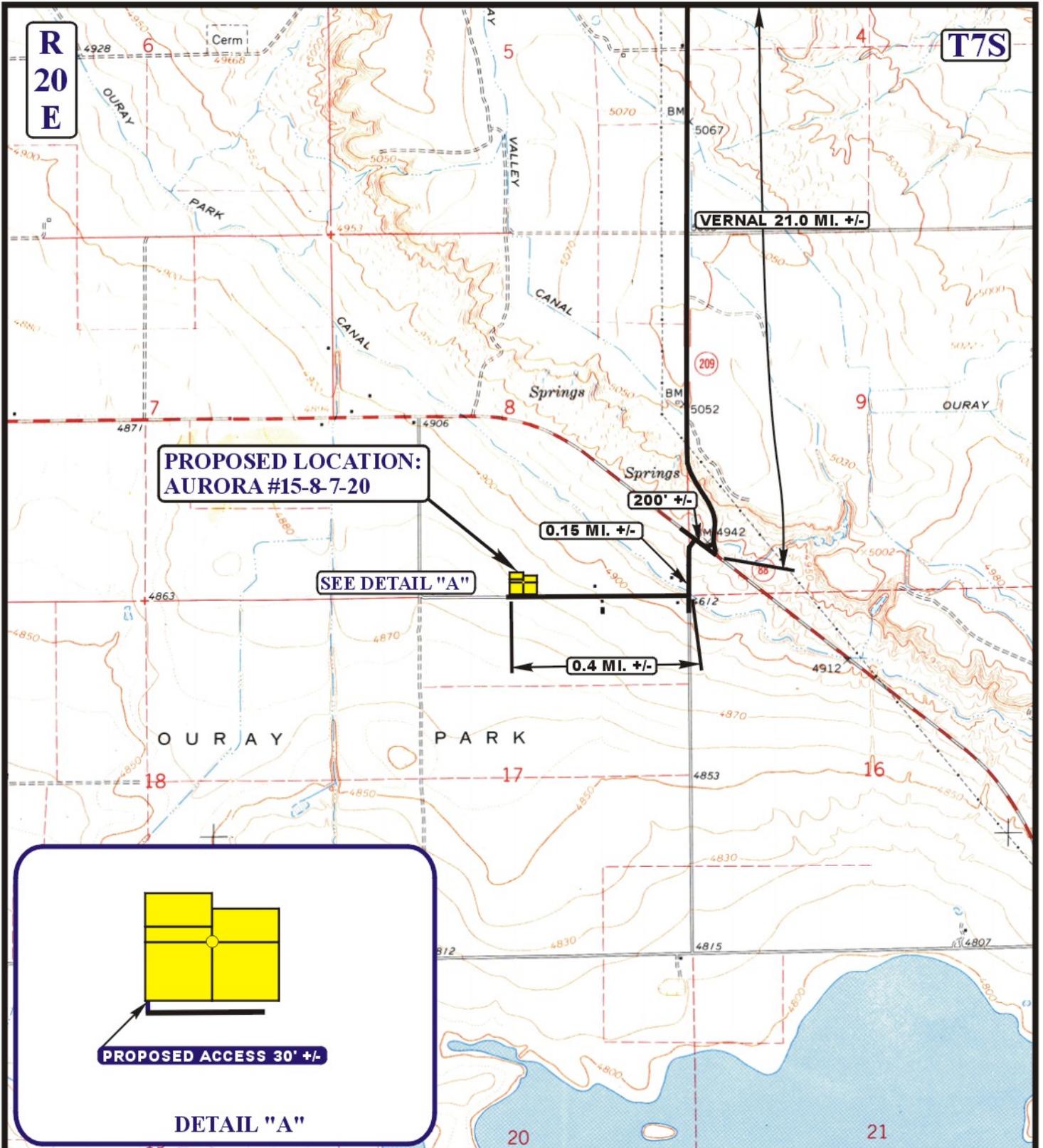
02 23 06
MONTH DAY YEAR



SCALE: 1:100,000 DRAWN BY: C.P. REV: 08-31-11 C.I.

RECEIVED

Sep. 30, 2011



LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD



BILL BARRETT CORPORATION

AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL

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

TOPOGRAPHIC MAP **02 23 06**
 MONTH DAY YEAR
 SCALE: 1" = 2000' DRAWN BY: C.P. REV: 08-31-11 C.I. **B TOPO**

RECEIVED

Sep. 30, 2011

BILL BARRETT CORPORATION
DRILLING PLAN

Aurora #15-8-7-20

SWSE, 212' FSL, 2432' FEL, Section 8, T7S, R20E, USB&M
Duchesne County, UT

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/TVD</u>
Green River (upper)*	4173'
T/ UGR Saline Zone	4548'
B/ UGR Saline Zone	4973'
TGR3 (lower Green River)*	6393'
Black Shale*	7203'
Wasatch*	8183'
TD	10300'

*PROSPECTIVE PAY

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

3. BOP and Pressure Containment Data

<u>Depth Intervals</u>	<u>BOP Equipment</u>
0 – 500'	No pressure control required (may pre-set 13-3/8")
500' – 5100'	13-5/8" 5000# Annular Diverter plumbed through the rigs choke manifold
5100' – TD	13-5/8" or 11" 5000# Ram Type BOP 13-5/8" or 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

4. Casing Program

<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'	20"	94#			
17-1/2"	surface	500'	13-3/8"	54.50#	J or K 55	ST&C	New
12-1/4"	surface	5100'	9-5/8"	40#	J55	LT&C	New
8-3/4"	surface	10300	5-1/2"	17#	P110	LTC	New

Note: May pre-set 13-3/8" surface casing with spudder rig.

Bill Barrett Corporation
 Drilling Program
 Aurora #15-8-7-20
 Uintah County, Utah

5. **Cementing Program**

<u>Casing</u>	<u>Cement</u>
20" Conductor Casing	Grout
17-1/2" hole for 13-3/8" Surface Casing (may pre-set with spudder rig)	Approximately 450 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx). Calculated hole volume with 75% excess.
12-1/4" hole for 9-5/8" intermediate casing	Lead with approximately 700 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft ³ /sx) circulated to surface with 50% excess. 4100' fill. Tail with approximately 350 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft ³ /sx). Calculated hole volume with 50% excess. 1000' fill.
8-3/4" hole for 5-1/2" production casing	Lead with approximately 350 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). Tail with approximately 1000 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Planned TOC @ 4300'. 50% excess over gauge hole.

6. **Mud Program**

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 500'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
500' - 5100'	8.3 – 8.8	26 – 36	NC	Freshwater Mud Fluid System
5100' – TD	8.6 – 9.8	42-52	20 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, GEM, HFDT to be run at geologist's discretion.

8. **Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Bill Barrett Corporation
Drilling Program
Aurora #15-8-7-20
Uintah County, Utah

Maximum anticipated bottom hole pressure equals approximately 5248 psi* and maximum anticipated surface pressure equals approximately 2983 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 TVD = A (bottom hole pressure)

**Maximum surface pressure = A - (0.22 x TVD)

9. Auxiliary Equipment

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

10. Location and Type of Water Supply

Water for the drilling and completion will be trucked from the Green River located in Sec. 33, T8S, R20E.

11. Drilling Schedule

Location Construction: November 2011
Spud: November 2011
Duration: 18 days drilling time
45 days completion time

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).

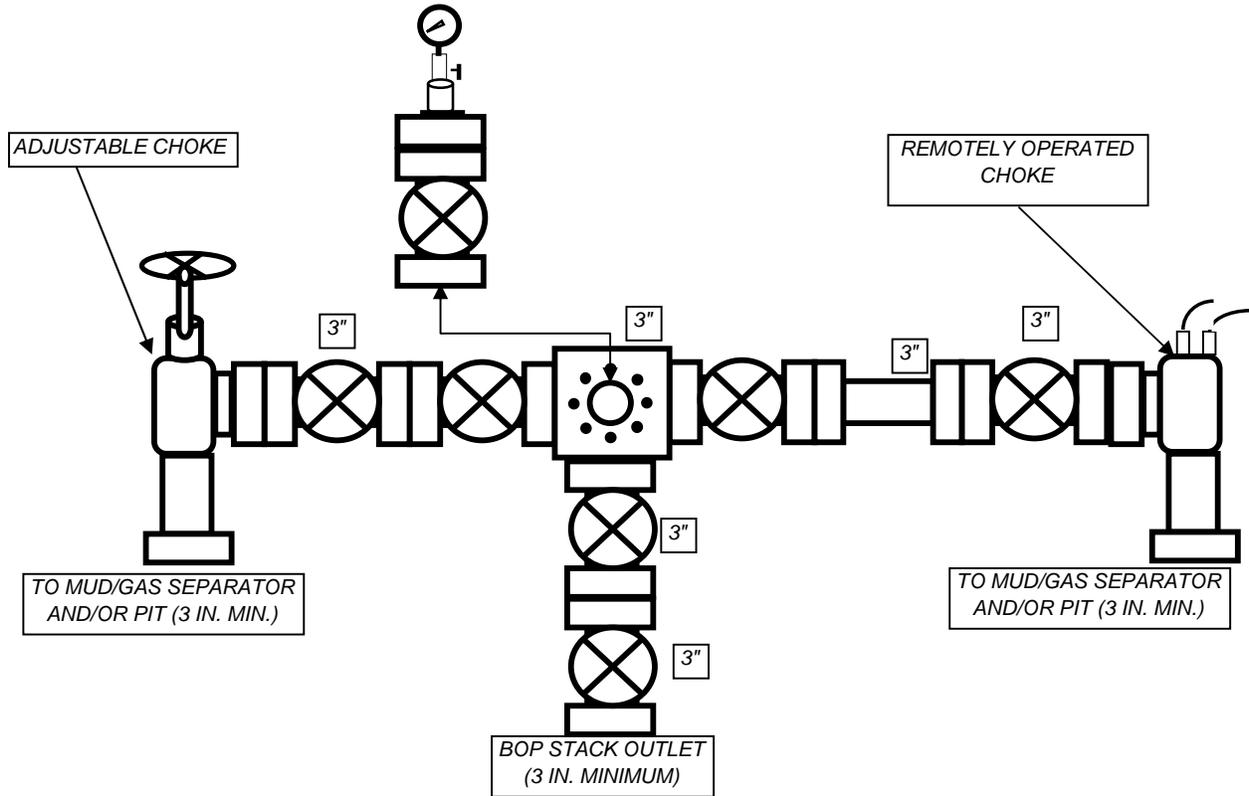
F. Miscellaneous Information:

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.

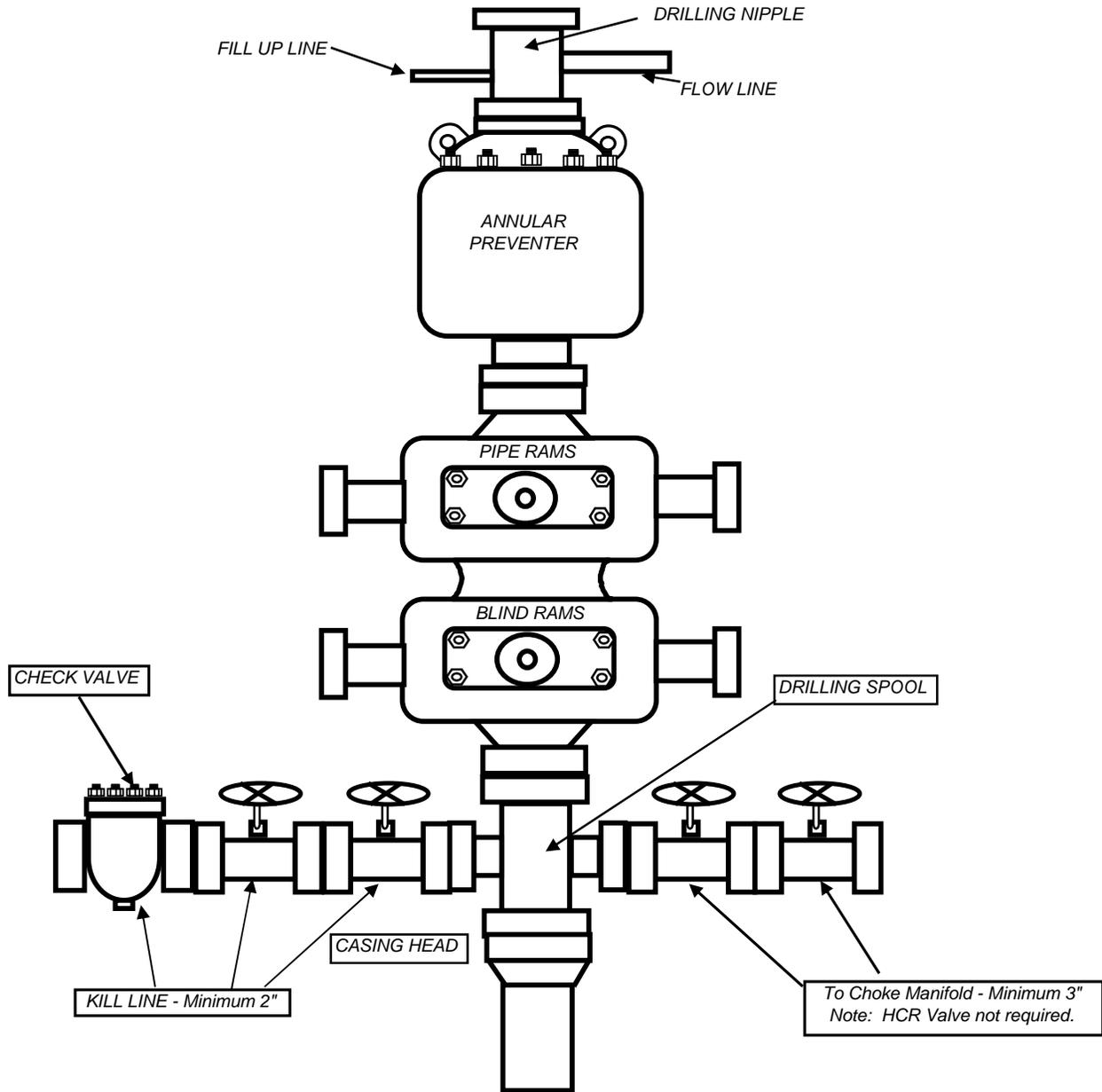
BILL BARRETT CORPORATION

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



BILL BARRETT CORPORATION

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



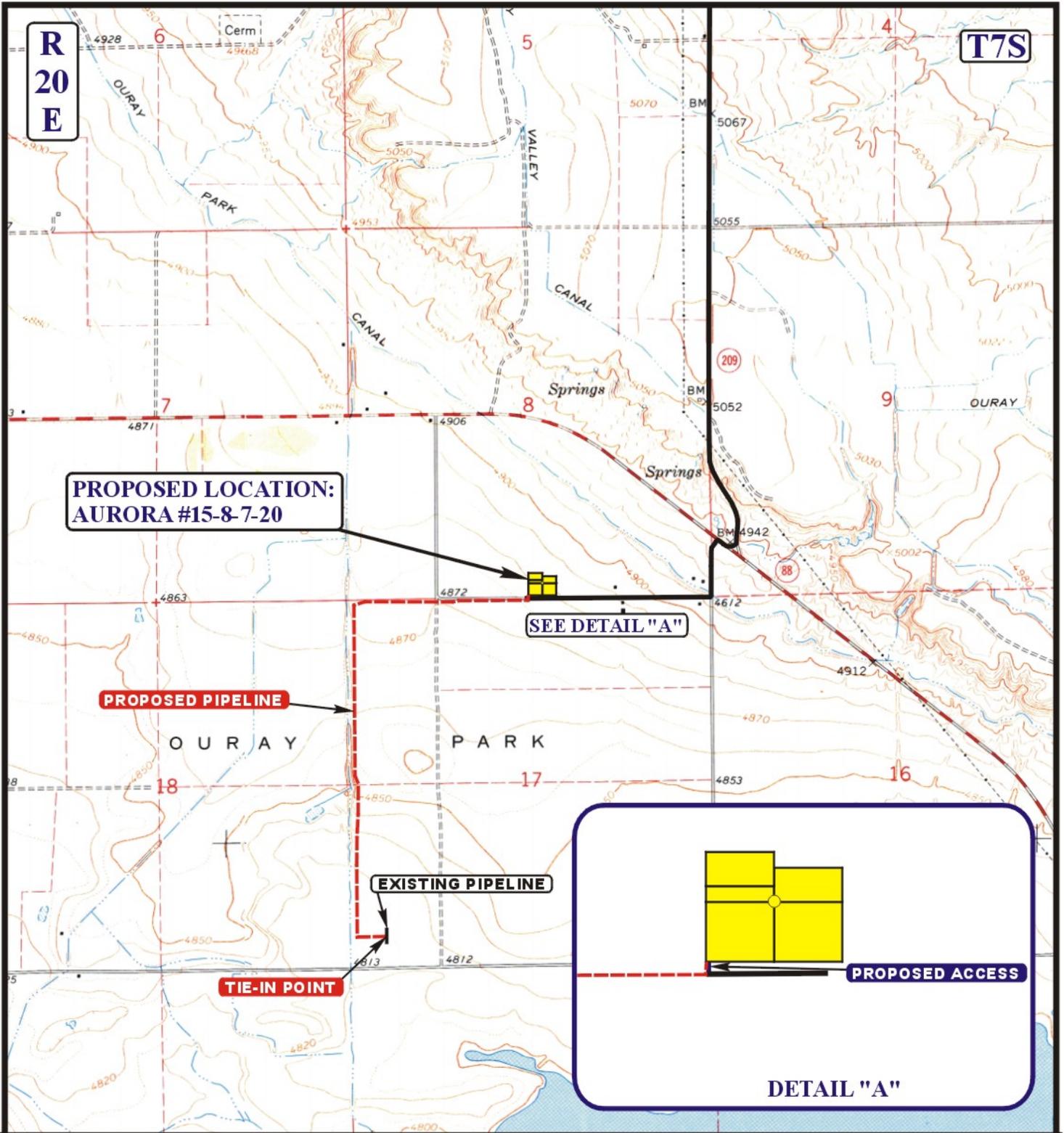
Water for the drilling and completion would be trucked from any of the following locations:

Water Right No. and Application or Change No.	Applicant	Allocation	Priority Date	Point of Diversion	Source
49-1645 (A35800)	RN Industries, Inc.	50 ac-ft	4/10/2011	Sec 9, T8S, R20E, SLB&M	Underground Well
49-2336 (t78808)	RN Industries, Inc.	20 ac-ft	4/7/2011	Sec 33, T8S, R20E, SLB&M	Green River
43-8496 (A53617)	A-1 Tank Rental	0.015 cfs	8/17/1979	Sec 32, T4S, R3E, USB&M	Underground Well
43-10288 (A65273)	Nile Chapman (RNI)	0.45 ac-ft	4/4/1991	Sec 9, T2S, R2W, USB&M	Underground Well

Water Disposal:

Disposal Facilities
1. LaPoint Recycle & Storage – Sec. 12, T5S-R19E
2. Dalbo, Inc. Ace Disposal, Sec. 35, T5S-R20W & Sec. 2, T6S-R20W

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: Fee																														
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:																														
2. NAME OF OPERATOR: BILL BARRETT CORP		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)																														
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		8. WELL NAME and NUMBER: AURORA 15-8-7-20																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047515090000																														
PHONE NUMBER: 303 312-8164 Ext		9. FIELD and POOL or WILDCAT: UNDESIGNATED																														
COUNTY: UINTAH		STATE: UTAH																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																																
TYPE OF SUBMISSION	TYPE OF ACTION																															
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/15/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input checked="" type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 80px;" type="text" value="Pipeline"/></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 checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 80px;" type="text" value="Pipeline"/>
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12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This is being submitted for informational purposes that BBC plans to construct a pipeline for the subject well location. The entire route of the pipeline is located on fee lands. Attached please find the pipeline map and surface use agreement.																																
NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst																														
SIGNATURE N/A	DATE 11/14/2011																															



APPROXIMATE TOTAL PIPELINE DISTANCE = 7,851' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING PIPELINE
-  PROPOSED PIPELINE

BILL BARRETT CORPORATION

**AURORA #15-8-7-20
SECTION 8, T7S, R20E, S.L.B.&M.
212' FSL 2432' FEL**



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



**TOPOGRAPHIC
MAP**

02 23 06
MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REV: 08-31-11 C.I.



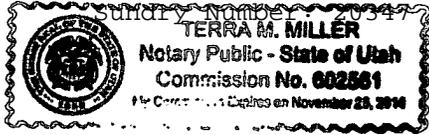
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Nov. 14, 2011

ACKNOWLEDGEMENT

STATE OF Utah)
COUNTY OF Uintah) SS

On the 8th day of November, 2011, before me the undersigned authority, appeared **David R. Yeaman**, to me personally known, who, being sworn, did say that they are the President of Four Star Ranch, Inc., and that the foregoing instrument was signed in behalf of said partnership and Appearer acknowledged to me that said instrument to be the free act and deed of the partnership.



Terra M. Miller
Notary Public for the State of

Residing at Vernal, UT

ACKNOWLEDGEMENT

STATE OF _____)
COUNTY OF _____) SS

On the ___ day of _____, 2011, before me the undersigned authority, appeared **Huntington T. Walker**, to me personally known, who, being sworn, did say that they are the SVP Land for Aurora Gathering, LLC, and that the foregoing instrument was signed in behalf of said partnership and Appearer acknowledged to me that said instrument to be the free act and deed of the partnership.

Notary Public for the State of

Residing at _____

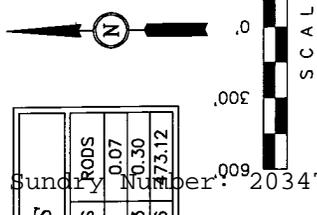
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BILL BARRETT CORPORATION
PIPELINE RIGHT-OF-WAY
ON FEE LANDS

(For AURORA #15-8-7-20)

LOCATED IN
 SECTIONS 8 & 17, T7S, R20E, S.L.B.&M.
 UINTAH COUNTY, UTAH

RIGHT-OF-WAY LENGTHS			
PROPERTY OWNER	FEET	ACRES	FRODS
BLAINE M. & ELLEN T. ARGYLE	1.14	0.001	0.07
THOMAS GEORGE PERRY	4.92	0.003	0.30
FOUR STAR RANCH INC.	7806.47	5.376	373.12



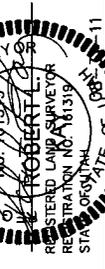
PIPELINE RIGHT-OF-WAY DESCRIPTION FOUR STAR RANCH INC. LANDS
 A 30' WIDE RIGHT-OF-WAY 15' ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE.
 BEGINNING AT A POINT ON THE NORTH LINE OF THE NE 1/4 SW 1/4 OF SAID SECTION 17, WHICH BEARS S89°53'55"W 2.61' FROM THE NORTH 1/4 CORNER OF SAID SECTION 17, THENCE S31°41'56"W 40.26'; THENCE N89°59'58"W 1011.71'; THENCE S79°59'00"W 98.00'; THENCE S69°49'01"W 1264.16'; THENCE S71°48'18"W 174.15'; THENCE S01°17'17"E 564.10'; THENCE S00°18'34"E 1709.70'; THENCE S01°03'58"W 185.41'; THENCE S01°05'24"E 92.67'; THENCE S03°03'08"W 407.15'; THENCE S00°18'22"E 1368.37'; TO A POINT IN THE SW 1/4 SW 1/4 OF SAID SECTION 17, WHICH BEARS N49°58'54"E 652.53' FROM THE SOUTHEAST CORNER OF SAID SECTION 17, THE SIDE LINES OF SAID DESCRIBED RIGHT-OF-WAY BEING SHORTENED OR ELONGATED TO MEET THE GRANTOR'S PROPERTY LINES.
 CONTAINS 5.376 ACRES MORE OR LESS.

BASES OF BEARINGS

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

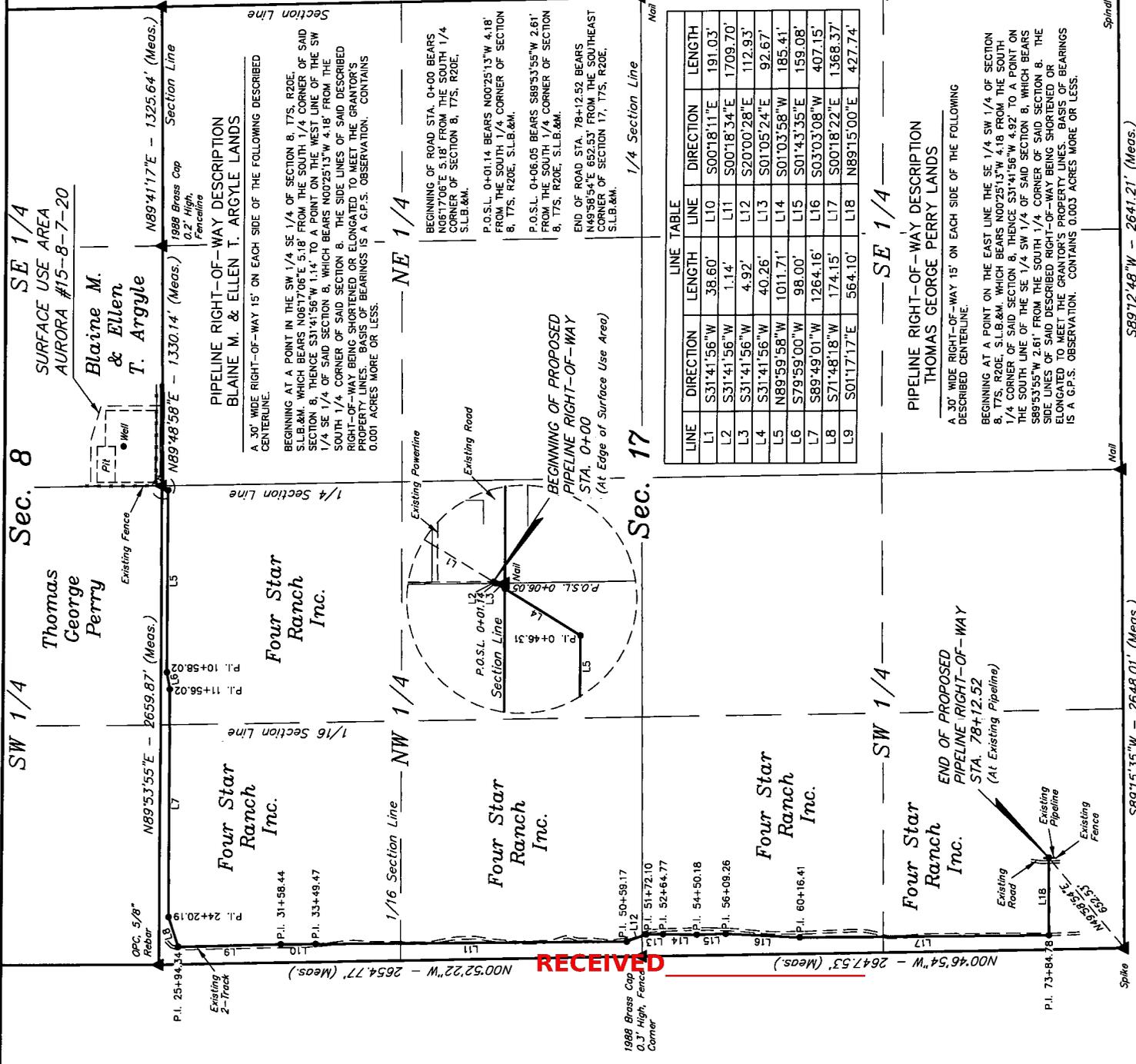
CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE WAS MADE 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.



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

SCALE	DATE
1" = 600'	08-31-11
PARTY	REFERENCES
C.R. S.R. S.L.	G.L.O. PLAT
WEATHER	FILE
WARM	5 1 0 3 6



LINE TABLE

LINE	DIRECTION	LENGTH	DIRECTION	LENGTH
L1	S31°41'56"W	38.60'	S00°18'11"E	191.03'
L2	S31°41'56"W	1.14'	S00°18'34"E	1709.70'
L3	S31°41'56"W	4.92'	S20°00'28"E	112.93'
L4	S31°41'56"W	40.26'	S01°05'24"E	92.67'
L5	N89°59'58"W	1011.71'	S01°03'58"W	185.41'
L6	S79°59'00"W	98.00'	S01°43'35"E	159.08'
L7	S89°49'01"W	1264.16'	S03°03'08"W	407.15'
L8	S71°48'18"W	174.15'	S00°18'22"E	1368.37'
L9	S01°17'17"E	564.10'	N89°15'00"E	427.74'

Section Corner
 Re-Established using
 Reference Markers

▲ = SECTION CORNERS LOCATED.

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: Fee
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	8. WELL NAME and NUMBER: AURORA 15-8-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	9. API NUMBER: 43047515090000
9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	COUNTY: UINTAH
	STATE: UTAH

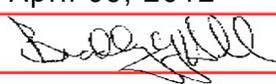
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This sundry is being submitted to request a one year extension of the subject APD. Drilling operations are scheduled to begin on 05/15/2012 for this well.

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

Date: April 09, 2012
By: 

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 4/2/2012	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047515090000

API: 43047515090000

Well Name: AURORA 15-8-7-20

Location: 0212 FSL 2432 FEL QTR SWSE SEC 08 TWP 070S RNG 200E MER S

Company Permit Issued to: BILL BARRETT CORP

Date Original Permit Issued: 5/11/2011

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

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Venessa Langmacher

Date: 4/2/2012

Title: Senior Permit Analyst Representing: BILL BARRETT CORP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
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9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	COUNTY: UINTAH
STATE: UTAH	

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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

BBC plans to drill this well 1500' shallower than originally permitted (new TD 8800'). We would like to revise the well design based on a shallower TD and BBC's recent experience drilling in the area on the FD 9-36-6-19, FD 11-36-6-19, Aurora 15-28D-7-20 and Aurora 3-20D-7-20, along with the recent drilling results on the 4 offset Axia wells. Please see revised casing and cementing programs attached.

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

Date: May 09, 2012

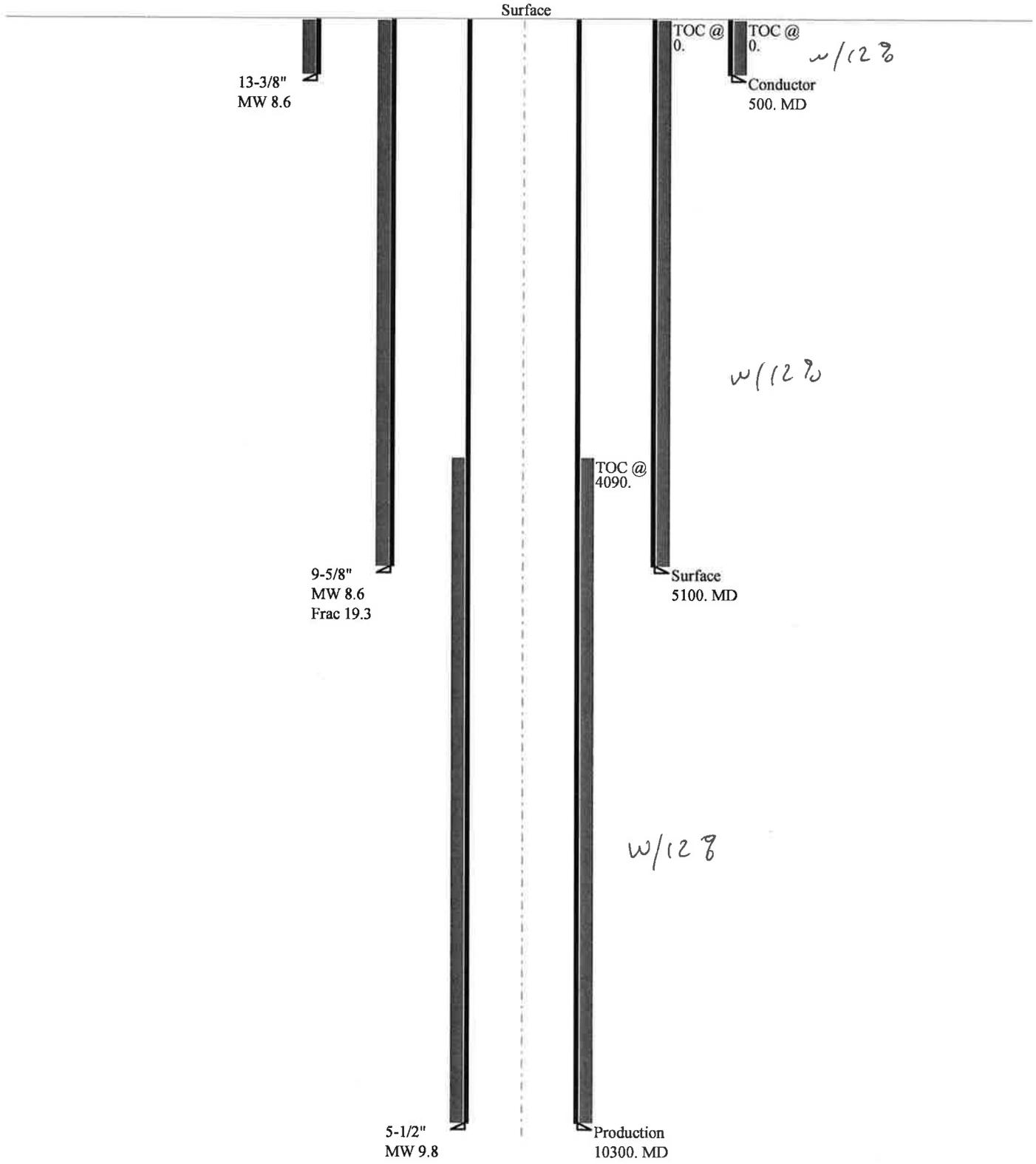
By: *D. K. Quist*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 4/19/2012	

43047515090000

rev.

Casing Schematic



Well name:	43047515090000		rev.
Operator:	Bill Barrett Corp		Project ID:
String type:	Conductor		43-047-51509
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 81 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft
Cement top: Surface

Burst

Max anticipated surface pressure: 163 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 223 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on air weight.
Neutral point: 436 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	500	13.375	54.50	J-55	ST&C	500	500	12.49	6203
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	223	1130	5.060 ✓	223	2730	12.22 ✓	27.2	514	18.87 J ✓

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43047515090000	rev.
Operator:	Bill Barrett Corp	
String type:	Surface	Project ID: 43-047-51509
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 145 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 3,035 psi → 5m
Internal gradient: 0.220 psi/ft
Calculated BHP: 4,157 psi
Annular backup: 1.00 ppg

Tension:

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

Non-directional string.

Tension is based on air weight.
Neutral point: 4,448 ft

Re subsequent strings:

Next setting depth: 10,500 ft
Next mud weight: 9.800 ppg
Next setting BHP: 5,345 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 5,100 ft
Injection pressure: 5,100 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	5100	9.625	40.00	J-55	LT&C	5100	5100	8.75	46282
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2278	2570	1.128 ✓	3893	3950	1.01 ✓	204	520	2.55 J ✓

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 5100 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43047515090000	rev.
Operator:	Bill Barrett Corp	
String type:	Production	Project ID: 43-047-51509
Location:	UINTAH COUNTY	

Design parameters:

Collapse

Mud weight: 9.800 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 218 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: 4,090 ft

Burst

Max anticipated surface pressure: 2,978 psi *5M*
Internal gradient: 0.220 psi/ft
Calculated BHP 5,244 psi

No backup mud specified.

Tension:

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

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 8,769 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10300	5.5	17.00	P-110	LT&C	10300	10300	4.767	67844
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4709	7480	1.589	5244	10640	2.03	149.1	445	2.98 J

Prepared by: Dustin K. Doucet
Div of Oil, Gas & Mining

Phone: 801 538-5281
FAX: 801-359-3940

Date: October 12, 2011
Salt Lake City, Utah

Remarks:

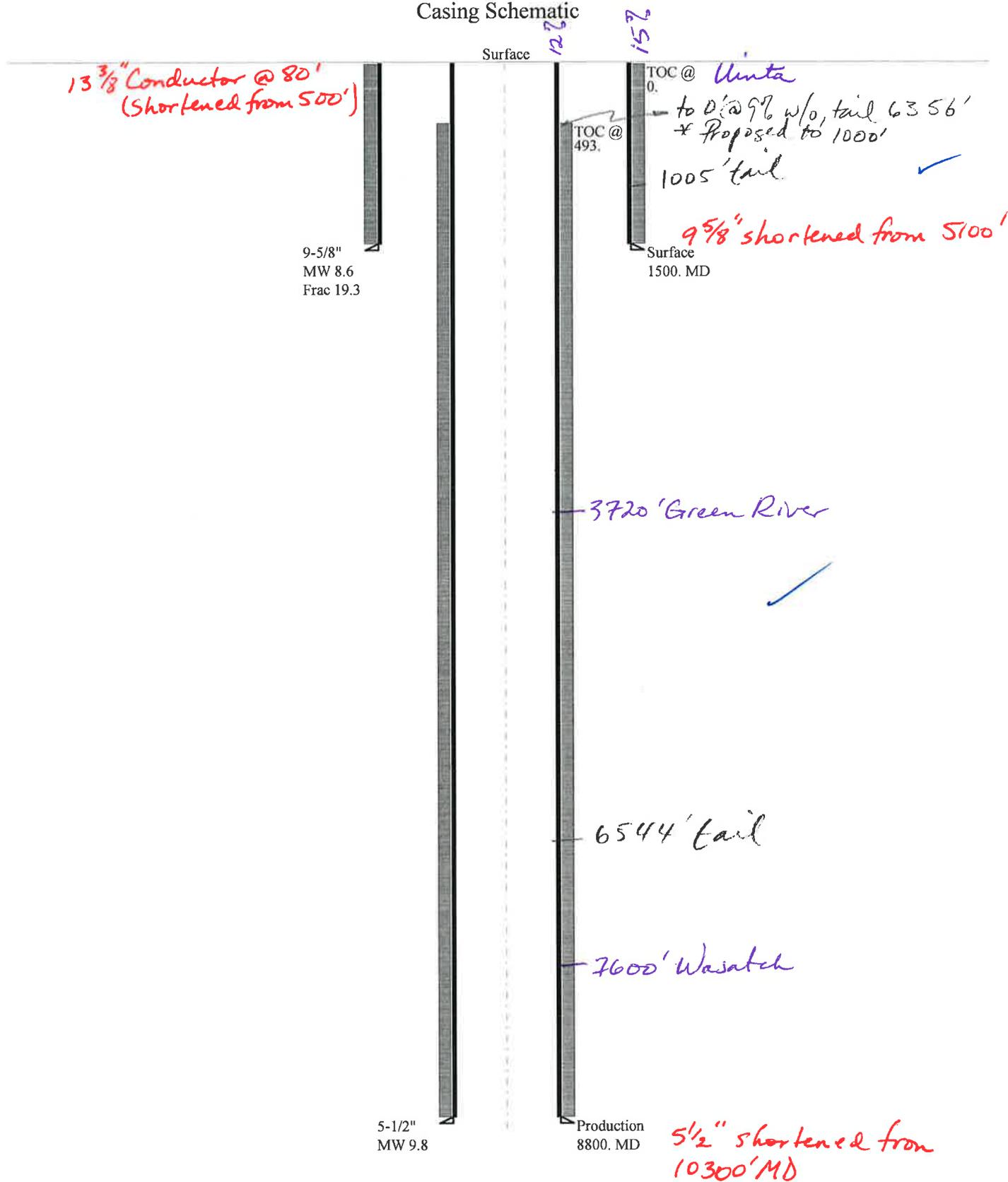
Collapse is based on a vertical depth of 10300 ft, a mud weight of 9.8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

original name Argyle 8-43

43047515090000 Aurora 15-8-7-20rev

Casing Schematic



Well name:	43047515090000 Aurora 15-8-7-20rev		
Operator:	Bill Barrett Corp	Project ID:	43-047-51509
String type:	Surface		
Location:	UINTAH COUNTY		

Design parameters:**Collapse**

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

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

Cement top: Surface

Burst

Max anticipated surface pressure: 1,170 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 1,500 psi

Annular backup: 1.00 ppg

Tension:

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

Tension is based on air weight.

Neutral point: 1,309 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 8,800 ft
Next mud weight: 9.800 ppg
Next setting BHP: 4,480 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 1,500 ft
Injection pressure: 1,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1500	9.625	36.00	J-55	ST&C	1500	1500	8.796	13038
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	670	2020	3.014	1422	3520	2.48	54	394	7.30 J

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

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

Date: May 1, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1500 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43047515090000 Aurora 15-8-7-20rev		
Operator:	Bill Barrett Corp	Project ID:	43-047-51509
String type:	Production		
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 9.800 ppg
 Internal fluid density: 1.000 ppg

Burst

Max anticipated surface pressure: 2,544 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 4,480 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

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

Tension is based on buoyed weight.
 Neutral point: 7,492 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 197 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 493 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8800	5.5	17.00	P-110	LT&C	8800	8800	4.767	57964
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4023	7480	1.859	4480	10640	2.37	127.4	445	3.49 J

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

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

Date: May 1, 2012
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8800 ft, a mud weight of 9.8 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Aurora 15-8-7-20**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	1,500'	9 5/8"	36#	J or K 55	ST&C	New
8 3/4"	Surface	TD	5 1/2"	17#	P-110	LT&C	New

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: 940 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft ³ /sx). TOC @ 1,000' Tail: 570 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft ³ /sx). Top of cement to be determined by log and sample evaluation; estimated TOC @ 6,703'

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
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2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA 15-8-7-20
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047515090000
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		COUNTY: Uintah
		STATE: UTAH

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TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/15/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Preset Surface Casing"/>

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

BBC requests permission to pre-set the 9-5/8" casing with a spudder rig. 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 a minimum of 100 feet from the well bore - Mud circulating equipment, water, and mud materials (does not have to be premixed) sufficient to maintain the capacity of the hole and circulating tanks or pits

Approved by the Utah Division of Oil, Gas and Mining

Date: May 24, 2012

By: *Derek Duff*

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 5/11/2012	

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: Fee	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)	
2. NAME OF OPERATOR: BILL BARRETT CORP		8. WELL NAME and NUMBER: AURORA 15-8-7-20	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202		9. API NUMBER: 43047515090000	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 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 checked="" type="checkbox"/> SPUD REPORT Date of Spud: 6/11/2012 <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 by Triple A Drilling on 6/11/2012 at 8:00 am.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY June 15, 2012			
NAME (PLEASE PRINT) Venessa Langmacher		PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A		DATE 6/12/2012	

CONFIDENTIAL

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; BILL BARRETT CORP

Well Name: AURORA 15-8-7-20

Api No: 43-047-51509 Lease Type FEE

Section 08 Township 07S Range 20E County UINTAH

Drilling Contractor TRIPLE A DRILLING RIG #

SPUDDED:

Date 06/06/2012

Time 8:00 AM

How DRY

**Drilling will
Commence:**

Reported by VANESSA LANGMACHER

Telephone # (303) 312-8172

Date 06/06/2012 Signed CHD

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

FORM 6

ENTITY ACTION FORM

Operator: Bill Barrett Corporation Operator Account Number: N 2165
 Address: 1099 18th Street, Suite 2300
city Denver
state CO zip 80202 Phone Number: (303) 312-8172

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751509	Aurora 15-8-7-20		SWSE	8	7S	20E	Uintah
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18569	6/11/2012		6/20/2012		
Comments: Spudding Operation was conducted by Triple A Drilling @ 8:00 am. <u>GR-WS</u>							CONFIDENTIAL

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A							
Comments:							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

Title

6/12/2012

Date

RECEIVED

JUN 13 2012

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: FEE
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: AURORA 15-8-7-20	
2. NAME OF OPERATOR: ELK PRODUCTION UINTAH, LLC	9. API NUMBER: 43047515090000	
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8128 Ext	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/30/2012	<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.		
June 2012 monthly drilling activity report is attached.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY July 05, 2012		
NAME (PLEASE PRINT) Tracey Fallang	PHONE NUMBER 303 312-8134	TITLE Regulatory Manager
SIGNATURE N/A	DATE 7/3/2012	

**Aurora 15-8-7-20 6/23/2012 06:00 - 6/24/2012 00:00**

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	Move camps, layover derrick tear down backyard
18:00	12.00	06:00	1	RIGUP & TEARDOWN	wait on daylight

Aurora 15-8-7-20 6/24/2012 06:00 - 6/25/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	break down derrick set matting boards and sub set back yard
18:00	12.00	06:00	1	RIGUP & TEARDOWN	Wait on daylight

Aurora 15-8-7-20 6/25/2012 06:00 - 6/26/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	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	1	RIGUP & TEARDOWN	rig up floor

Aurora 15-8-7-20 6/26/2012 06:00 - 6/27/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	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	1	RIGUP & TEARDOWN	Finish rigging up floor, pick up and make up kelly
10:00	2.00	12:00	14	NIPPLE UP B.O.P	Nipple up conductor & flowline
12:00	1.00	13:00	1	RIGUP & TEARDOWN	Test mud pumps and mud lines
13:00	1.00	14:00	7	LUBRICATE RIG	Rig Service
14:00	1.00	15:00	1	RIGUP & TEARDOWN	Pre spud insp.
15:00	3.00	18:00	21	WO Dirc tools	W/O Dirc. Tools
18:00	4.00	22:00	20	DIRECTIONAL WORK	Strap BHA
22:00	3.00	01:00	20	DIRECTIONAL WORK	PU BHA and orient tools
01:00	1.50	02:30	8	REPAIR RIG	Repair triplock on Blocks
02:30	1.00	03:30	20	DIRECTIONAL WORK	Test Equip.
03:30	1.00	04:30	21		Replace shaker screens & trouble shoot charge pumps
04:30	1.00	05:30	22	OPEN	plug in Pason
05:30	0.50	06:00	2	DRILL ACTUAL	Drilling 148'-190'

Aurora 15-8-7-20 6/27/2012 06:00 - 6/28/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	2	DRILL ACTUAL	Drill f/169-384
10:30	0.50	11:00	7	LUBRICATE RIG	Rig Service
11:00	5.00	16:00	2	DRILL ACTUAL	Drill f/ 384-656
16:00	2.00	18:00	21	OPEN	Pull 1 STD. hook up circ swedge and repair o-ring on standpipe
18:00	12.00	06:00	2	DRILL ACTUAL	Drilling 656-1387

Aurora 15-8-7-20 6/28/2012 06:00 - 6/29/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status DRILLING	Total Depth (ftKB) 4,598.0	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	2	DRILL ACTUAL	drilling 1387-1534
09:00	0.50	09:30	5	COND MUD & CIRC	pump sweep and circ. out
09:30	2.00	11:30	6	TRIPS	short trip to DC
11:30	0.50	12:00	7	LUBRICATE RIG	rig service
12:00	1.50	13:30	5	COND MUD & CIRC	pump sweep circ out, pump dry job
13:30	4.50	18:00	6	TRIPS	trip out, rig up LD truck, LD BHA

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
18:00	4.50	22:30	12	RUN CASING & CEMENT	Rig up casers run 9 5/8 casing to 1529'
22:30	1.50	00:00	12	RUN CASING & CEMENT	rig down casers&rig up Halliburton
00:00	2.50	02:30	12	RUN CASING & CEMENT	Pumped20 bbl fresh water spacer,pump40.5 bbl super flush,pump21 bbl fresh water spacer,200sks HLC PremiumLead @ 11.0 #/g,3.16cuft/sk,19.48 gal/sk. 230 sks PremiumPlusIII Tail@ 14.8#/g 1.33 cuft/sk,6.31 gal/sk drop plug,displace bump plug Returns with 85 bbls of displacementgone.approximately 30 bbl of good cement to surface.bump plug 500psi over FCP 1395 psi held for 4 min floats held 1 bbl back
02:30	2.00	04:30	13	WAIT ON CEMENT	Wait on cement 2 hrs.
04:30	1.50	06:00	14	NIPPLE UP B.O.P	nipple down flowline & conductor

TOGS R20E S-08 43-049-51509

From: Frontier15 Rig <frontier15@billbarrettcorp.com>
To: "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" ...
CC: Tracey Fallang <tfallang@billbarrettcorp.com>, Venessa Langmacher <vlang...>
Date: 7/13/2012 8:47 AM
Subject: Bill Barrett Corp. - Aurora 15-8-7-20 Production Casing

We are currently TD'd and logging the well. Should be running 5-1/2" casing approximately 09:30 hrs Saturday 7/14/2012. Cementing approximately 19:00 hrs Saturday 7/15/2012.

Regards,
Howard Leeper
Drilling Supervisor
Frontier 15
303-353-5312
frontier15@billbarrettcorp.com<mailto:frontier15@billbarrettcorp.com>

CONFIDENTIAL

RECEIVED

JUL 13 2012

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
1. TYPE OF WELL Oil Well	5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: BILL BARRETT CORP	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	8. WELL NAME and NUMBER: AURORA 15-8-7-20
PHONE NUMBER: 303 312-8164 Ext	9. API NUMBER: 43047515090000
9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

July 2012 monthly drilling activity report is attached.

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

FOR RECORD ONLY

August 08, 2012

NAME (PLEASE PRINT) Megan Finnegan	PHONE NUMBER 303 299-9949	TITLE Permit Analyst
SIGNATURE N/A	DATE 8/2/2012	

**Aurora 15-8-7-20 7/1/2012 06:00 - 7/2/2012 06:00**

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drilling 3119'-3749'
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service
16:00	14.00	06:00	2	DRILL ACTUAL	Drilling 3749'-4314

Aurora 15-8-7-20 7/2/2012 06:00 - 7/3/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drilling f/ 4314-4534
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service
16:00	3.00	19:00	2	DRILL ACTUAL	Drilling f/ 4534-4598
19:00	4.00	23:00	6	TRIPS	circ btms up , pump pill TOO for mwd
23:00	1.00	00:00	20	DIRECTIONAL WORK	change MWD,Gap Sub & Bit
00:00	2.00	02:00	6	TRIPS	TIH to 4520'
02:00	1.50	03:30	20	DIRECTIONAL WORK	Regama 4520'-4598'
03:30	2.50	06:00	2	DRILL ACTUAL	Drilling 4598'-4661'

Aurora 15-8-7-20 7/3/2012 06:00 - 7/4/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.50	15:30	2	DRILL ACTUAL	Drilling 4661 - 4788
15:30	0.50	16:00	7	LUBRICATE RIG	Rig Service
16:00	14.00	06:00	2	DRILL ACTUAL	Drilling 4788 - 5134

Aurora 15-8-7-20 7/4/2012 06:00 - 7/5/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	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	2	DRILL ACTUAL	Drilling 5134-5701 full signal back on gama

Aurora 15-8-7-20 7/5/2012 06:00 - 7/6/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Steerable drill 5701' to 5953'. (252' @ 22 fph, WOB 16/22k, RPM 60/85, GPM 500, SPP 1950, DIFF 75)
17:30	0.50	18:00	7	LUBRICATE RIG	Rig Service
18:00	9.00	03:00	2	DRILL ACTUAL	Steerable drill 5953' to 6210'. (257' @ 29 fph, WOB 22k, RPM 65/85, GPM 525, SPP 2200, DIFF 75)
03:00	1.50	04:30	5	COND MUD & CIRC	Pump 30 bbl sweep around and circulate hole clean. Flow Check. Pump 30 bbl weighted slug.
04:30	1.50	06:00	6	TRIPS	TOOH for core barrel.

Aurora 15-8-7-20 7/6/2012 06:00 - 7/7/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	6	TRIPS	TIH free from 3718' to bottom. Precautionary wash and ream 35' to bottom.
08:30	0.50	09:00	2	DRILL ACTUAL	Rotary drill 6210' to 6225'.
09:00	1.50	10:30	5	COND MUD & CIRC	Circulate hole clean, survey and re-log with gamma tool. Max bottoms up gas = 8526u.
10:30	5.50	16:00	6	TRIPS	TOOH to directional tools. Flow check on bottom and at casing shoe.

**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	1.00	17:00	6	TRIPS	Handle directional tools. Remove MWD probe. L/D bit, motor and reamers. Function tested blind rams and pipe rams.
17:00	3.00	20:00	6	TRIPS	M/U coring tools. (Coring BHA #1)
20:00	4.50	00:30	6	TRIPS	TIH with Coring BHA #1.
00:30	1.00	01:30	3	REAMING	Wash & ream 3 joints to bottom. Circulate out 8915u of trip gas. Tag bottom and space out for full kelly with pup joints.
01:30	0.50	02:00	4	CORING	Drop ball.
02:00	4.00	06:00	4	CORING	Cut Core #1 from 6225' to 6245'. (20' @ 5 fph, WOB 7k, RPM 52, GPM 315, SPP 750)

Aurora 15-8-7-20 7/7/2012 06:00 - 7/8/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.50	12:30	4	CORING	Core 6245' to 6262'. (17' @ 2.6 fph) Core barrel jammed during connection at 6262'.
12:30	0.50	13:00	5	COND MUD & CIRC	Flow check. Mix and pump weighted slug.
13:00	6.00	19:00	6	TRIPS	TOOH with Core #1.
19:00	0.50	19:30	6	TRIPS	L/D Core #1. Cut 38.9', Recovered 38.9'.
19:30	1.00	20:30	6	TRIPS	M/U Coring Assembly #2.
20:30	3.00	23:30	6	TRIPS	TIH with Coring Assembly #2.
23:30	1.50	01:00	5	COND MUD & CIRC	Circulate out trip gas. (8388u) Drop ball and pick up pup joints.
01:00	5.00	06:00	4	CORING	Cut Core #2 from 6262' to 6284'. (22' @ 4.4 fph)

Aurora 15-8-7-20 7/8/2012 06:00 - 7/9/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	4	CORING	Core 6284' to 6308'. (24' @ 5.3 fph)
10:30	1.00	11:30	5	COND MUD & CIRC	Circulate bottoms up. Flow Check.
11:30	4.50	16:00	6	TRIPS	Pump weighted slug, TOOH.
16:00	2.00	18:00	6	TRIPS	Lay down core and core tools. Cut 45', Recovered
18:00	1.50	19:30	6	TRIPS	Pick up directional tools. Surface test motor. Orient MWD/Motor.
19:30	4.50	00:00	6	TRIPS	TIH with BHA #6. Fill pipe and break circulation at 1500' (casing shoe) and 4000'.
00:00	0.50	00:30	3	REAMING	Precautionary wash and ream 70' to bottom. No fill.
00:30	5.50	06:00	2	DRILL ACTUAL	Steerable drill 6308' to 6458'. (150' @ 27 fph, WOB 16k, RPM 60/85, GPM 525, SPP 2250, DIFF 150)

Aurora 15-8-7-20 7/9/2012 06:00 - 7/10/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	Steerable drill 6458' to 6992'. (534' @ 46 fph, WOB 18k, RPM 60/85, GPM 525, SPP 2250, DIFF 150) Slid 15' or 3%.
17:30	0.50	18:00	7	LUBRICATE RIG	Rig service.
18:00	12.00	06:00	2	DRILL ACTUAL	Steerable drill 6992' to 7430'. (438' @ 37 fph, WOB 15/20k, RPM 45/85, GPM 465, SPP 2000, DIFF 250) Slid 113' or 26%.

Aurora 15-8-7-20 7/10/2012 06:00 - 7/11/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	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	2	DRILL ACTUAL	Steerable drill 7430' to 7775'. (345' @ 31 fph, WOB 20/25k, RPM 60/85, GPM 490, SPP 2200, DIFF 250/350) Slid 33' or 10%.
17:00	0.50	17:30	7	LUBRICATE RIG	Rig service.
17:30	6.00	23:30	2	DRILL ACTUAL	Steerable drill 7775' to 7933'. (158' @ 26 fph, WOB 20/25k, RPM 60/85, GPM 490, SPP 2200, DIFF 250/350) Slid 10' or 6%.
23:30	4.00	03:30	3	REAMING	Work very tight hole from 7854' to 7933'. Bad spot at 7930'. Stuck several times but with good circulation. Not differentially stuck. Rubble encroaching into wellbore. Raise MW to 9.5 ppg, VIS to 48 sec. Work pipe and ream bad spot until free.



Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
03:30	1.50	05:00	2	DRILL ACTUAL	Rotary drill 7933' to 7965'. (32' @ 21 fph, WOB 25k, RPM 70, GPM 525, SPP 2350, DIFF 100/200)	
05:00	1.00	06:00	5	COND MUD & CIRC	Circulate bottoms up.	

Aurora 15-8-7-20 7/11/2012 06:00 - 7/12/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	5.50	11:30	6	TRIPS	TOOH for bit.	
11:30	2.50	14:00	6	TRIPS	Change mud moter, bit and MWD electronics.	
14:00	0.50	14:30	7	LUBRICATE RIG	Rig service.	
14:30	1.50	16:00	6	TRIPS	TIH with BHA #7 to the 9-5/8" casing shoe.	
16:00	2.00	18:00	9	CUT OFF DRILL LINE	Slip and cut drilling line.	
18:00	4.50	22:30	6	TRIPS	TIH free to 7905'.	
22:30	1.00	23:30	3	REAMING	Fill pipe and precautionary wash and ream to bottom at 7965'.	
23:30	6.50	06:00	2	DRILL ACTUAL	Steerable drill 7965' to 8186'. (221' @ 34 fph, WOB 18/20k, RPM 65, GPM 490, SPP 2250, DIFF 150) Slid 26' or 12%.	

Aurora 15-8-7-20 7/12/2012 06:00 - 7/13/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	9.50	15:30	2	DRILL ACTUAL	Steerable drill 8186' to 8469'. (283' @ 30 fph, WOB 25/30k, RPM 65/80, GPM 490, SPP 2250, DIFF 250)	
15:30	0.50	16:00	7	LUBRICATE RIG	Rig service.	
16:00	4.50	20:30	2	DRILL ACTUAL	Steerable drill 8469' to 8600'. (131' @ 29 fph, WOB 30k, RPM 65/80, GPM 490, SPP 2300, DIFF 250) Decision from Denver office to stop drilling short of planned TD. (Planned TD = 8945')	
20:30	1.50	22:00	5	COND MUD & CIRC	Circulate 30 bbl hi-vis sweep around.	
22:00	1.50	23:30	6	TRIPS	Made 10 stand wiper trip w/o problems.	
23:30	2.50	02:00	5	COND MUD & CIRC	Circulate 30 bbl hi-vis sweep around. Circulate and condition.	
02:00	4.00	06:00	6	TRIPS	Flow check, pump weighted slug TOOH to log.	

Aurora 15-8-7-20 7/13/2012 06:00 - 7/14/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	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	6	TRIPS	TOOH to log.	
07:00	1.00	08:00	6	TRIPS	Lay down directional tools.	
08:00	1.50	09:30	11	WIRELINE LOGS	Conduct safety meeting with Halliburton loggers and Frontier rig crew. R/U logging equipment.	
09:30	5.50	15:00	11	WIRELINE LOGS	Run wireline logs. Loggers TD @ 8604'. No tight spots or stand-ups.	
15:00	3.00	18:00	6	TRIPS	M/U bit and bit sub. TIH to 9-5/8" casing shoe and fill pipe. TIH free and slowly to 5137'. Fill pipe - no circulation.	
18:00	1.00	19:00	5	COND MUD & CIRC	Pump 50 bbl LCM sweep around to get returns.	
19:00	2.00	21:00	6	TRIPS	TIH free to bottom.	
21:00	3.00	00:00	5	COND MUD & CIRC	Circulate and pump 40 bbl sweep around. Conduct safety meeting with Frank's laydow crew/Frontier drilling crew. Rig up laydown equipment. Pump weighted slug.	
00:00	6.00	06:00	6	TRIPS	Lay down drill string.	

Aurora 15-8-7-20 7/14/2012 06:00 - 7/15/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.50	06:30	6	TRIPS	Break kelly connections.	
06:30	1.00	07:30	6	TRIPS	Lay down BHA.	
07:30	0.50	08:00	21	OPEN	Pull wear bushing.	
08:00	1.50	09:30	12	RUN CASING & CEMENT	Rig up Frank's Westates casing running equipment.	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
09:30	0.50	10:00	12	RUN CASING & CEMENT	M/U and pump through shoe track.
10:00	10.50	20:30	12	RUN CASING & CEMENT	Run 195 jts 5-1/2" OD, 17 ppf, HCP-110, LT&C casing to 8587'. Run casing slowly, fill and attempt to circulate every 15 joints.
20:30	1.50	22:00	12	RUN CASING & CEMENT	Install casing swage. Fill pipe and attempt to establish circulation. Pump two 70 bbl LCM sweeps with 600 bbl drilling mud. Established intermittent circulation.
22:00	1.00	23:00	12	RUN CASING & CEMENT	Conduct cementing safety meeting with Halliburton, Frontier Drilling and ZECO. Rig up Halliburton to cement.
23:00	3.50	02:30	12	RUN CASING & CEMENT	Cement 5-1/2" casing. See cementing report for details.
02:30	0.50	03:00	12	RUN CASING & CEMENT	Rig down Halliburton.
03:00	3.00	06:00	12	RUN CASING & CEMENT	N/D BOPE. Set casing slips with 135k weight on slips. Cut off 5-1/2" landing joint.

Aurora 15-8-7-20 7/15/2012 06:00 - 7/16/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	12.00	18:00	1	RIGUP & TEARDOWN	Continue de-watering 650 bbl drilling mud. Rig down and move out Frontier #15. Rig is 60% rigged down and 50% moved. Moved pipe tubs, beaver slide, catwalk, 3 x 400 bbl water tanks, bulk silos, mud pumps, change house, light plant, water tank, dog house, one mud tank, rig floor components, rotary table and tubulars. Laid derrick over at 15:00 hrs. Finished cleaning mud tanks at 17:30 hrs. Rig released at 17:30 hrs 7/15/2012.

Aurora 15-8-7-20 7/16/2012 06:00 - 7/17/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	1	RIGUP & TEARDOWN	Continue moving Frontier Rig #15 to FD 3-36D-6-19. Rig 100% moved off by noon 7/16/2012. LAST REPORT.

Aurora 15-8-7-20 7/19/2012 06:00 - 7/20/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	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	LOCL	Lock Wellhead & Secure	Well head tech traveled to location.
07:00	1.25	08:15	IWHD	Install Wellhead	Cameron Arrvied on location. Safety Meeting, Check pressures on surface Csg & 5.5" casing. 0 psi on both side. Removed 11' x 5k night cap. Dressed 5.5" casing top. Installed 11" x 7 1/16" x 5k B-section. Pressure tested hanger seals to 5k. Good test. Installed 7 1/16" night cap. Secured Well head.
08:15	1.00	09:15	SRIG	Rig Up/Down	MIRU SLB Wire line, N/up wireline flange adapter. P/up 4.56" Gauge Ring & Junk Basket.
09:15	0.75	10:00	WLWK	Wireline	RIH with 4.56" Gauge Ring & Junk Basket. Tagged PBTD @ 8436'. Pooh with e-line, GR/ Junk Basket.
10:00	0.50	10:30	WLWK	Wireline	L/D GR/Junk Basket, P/up VDL/CBL/CCL/GR logging tools. RIH with CBL logging tools.
10:30	3.50	14:00	LOGG	Logging	Tagged PBTD @ 8436', Completed depth correction using HES log reference ran on 7/13/12, (Spectral Density Dual Spaced Neutron) Ran repeat pass from 8436' to 8150', completed GR adjustments to open hole log. verified depth correction. Dropped down to adjusted PBTD @ 8445'. Applied 1000 psi to 5.5' casing. Started logging main pass @ 60' fpm. Seen good cement from PBTD 8445' to 4100' Fair Cement from 4100 to 3100', Poor Cement from 3100' to 2477' called top of cement @ 2475'. Con't to log from 2475' to Surface. Located 3 Short jts from 4804' to 4824', 6528' to 6550', 7290' to 7310'.
14:00	0.75	14:45	SRIG	Rig Up/Down	Bled off casing pressure, L/D logging tools. N/D wireline flange adapter. N/up night cap, secured well head. RDMO e-line. Construction crews con't to work on production facility throughout the day.
14:45	15.25	06:00	LOCL	Lock Wellhead & Secure	Secured location for the night.

Aurora 15-8-7-20 7/20/2012 06:00 - 7/21/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status COMPLETION	Total Depth (ftKB) 8,600.0	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	LOCL	Lock Wellhead & Secure	Well head shut in and secured. Construction crews continued to work on production facility. Started hauling on BBC Frac tanks.	

Aurora 15-8-7-20 7/21/2012 06:00 - 7/22/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

Aurora 15-8-7-20 7/22/2012 06:00 - 7/23/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	

Aurora 15-8-7-20 7/23/2012 06:00 - 7/24/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Finish setting frac tanks, 40 tanks total on location, Con't to filling frac tanks with 3% kcl. Spot in flow back tanks, Set sand trap and R/up flow back equipment.	

Aurora 15-8-7-20 7/24/2012 06:00 - 7/25/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Con't to fill frac tanks with 3% kcl.	

Aurora 15-8-7-20 7/25/2012 06:00 - 7/26/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	FRAC	Frac. Job	FILLING 42 FRAC TANKS W/ 3% KCL.	

Aurora 15-8-7-20 7/26/2012 06:00 - 7/27/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	24.00	06:00	FRAC	Frac. Job	NU ISOLATION MANDRELL AND 5-1/2" 10K FRAC VALVES. PLUMB IN SAND TRAP AND FBT.	

Aurora 15-8-7-20 7/28/2012 00:00 - 7/29/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
00:00	1.00	01:00	SMTG	Safety Meeting	HOLD SAFETY MEETING W/ ALL CONTRACTORS ON DAILY OPERATION.	
01:00	3.00	04:00	PFRT	Perforating	R/U SLB WIRELINE. RIH W/ 3-1/8 3104 PJO PERF GUN'S, 16 GRAMS, 120 PHASING PERF STG #1 F/ 8212' TO 8440'. 48 HOLES TOTAL.	
04:00	3.00	07:00	SRIG	Rig Up/Down	MIRU HALCO FRAC CREW.	
07:00	17.00	00:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE.	

Aurora 15-8-7-20 7/29/2012 06:00 - 7/30/2012 06:00

API/UWI	State/Province	County	Field Name	Well Status	Total Depth (ftKB)	Primary Job Type
43047515090000	UT		Aurora	COMPLETION	8,600.0	Drilling & Completion

Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	0.50	06:30	SMTG	Safety Meeting	HELD SAFETY MEETING W/ ALL CONTRACTORS ON DAILY OPERATION.	



Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:30	1.00	07:30	FRAC	Frac. Job	R/U HALCO FRAC CREW. PRESSURE TEST LINE'S & EQUIPMENT TO 9500 PSI. OPEN WELL 0 PSI. BREAK DOWN FORMATION @ 10.5. BPM, 3113 PSI. PUMPED 93 BBL'S 15 % HCL & 96 BIO-BALLS. ISIP- 1276. EST HOLE'S OPEN 37. FRAC GRADIENT .59. PUMP X- LINK FRAC. AVG RATE- 70.4. MAX RATE- 73. AVG PSI- 2618. MAX- PSI- 3159. TOTAL BBL'S 3% KCL - 2767. TOTAL X- LINK FLUID - 50.672 GAL. TOTAL 100 MESH SAND - 9,600# TOTAL 20/40 SAND- 141,200#. ISIP- 1429. FRAC GRADIENT .61.
07:30	1.50	09:00	PFRT	Perforating	R/U SLB E-LINE. RIH W/ 10K 5-1/2 CBP & 3-1/8 3104 PJO PERF GUN'S, 16 GRAMS, 120 PHASING. SET 5-1/2 10K CBP @ 8201' PERF STG #2 F/ 7914' TO 8181'. POOH W/ PERF GUN & SETTING TOOL. ALL GUNS FIRED. TOTAL HOLE'S 42. R/D SLB E-LINE.
09:00	1.00	10:00	FRAC	Frac. Job	R/U HALCO FRAC CREW. PRESSURE TEST LINE'S & EQUIPMENT TO 9500 PSI. OPEN WELL 875 PSI. BREAK DOWN FORMATION @ 9.9. BPM, 2306 PSI. PUMPED 93 BBL'S 15 % HCL & 84 BIO-BALLS. ISIP-971. EST HOLE'S OPEN 42. FRAC GRADIENT .56. PUMP X- LINK FRAC. AVG RATE- 70.1. MAX RATE- 72.4. AVG PSI- 2269. MAX- PSI- 2650. TOTAL BBL'S 3% KCL - 2609. TOTAL X- LINK FLUID - 54.884 GAL. TOTAL 100 MESH SAND - 10,800# TOTAL 20/40 SAND- 150,800#. ISIP- 1411. FRAC GRADIENT .62,
10:00	1.50	11:30	PFRT	Perforating	R/U SLB E-LINE. RIH W/ 10K 5-1/2 CBP & 3-1/8 3104 PJO PERF GUN'S, 16 GRAMS, 120 PHASING. SET 5-1/2 10K CBP @ 7880. 'PERF STG #2 F/ 7914' TO 8181'. POOH W/ PERF GUN & SETTING TOOL. ALL GUNS FIRED. TOTAL HOLE'S 45. R/D SLB E-LINE.
11:30	1.00	12:30	FRAC	Frac. Job	R/U HALCO FRAC CREW. PRESSURE TEST LINE'S & EQUIPMENT TO 9500 PSI. OPEN WELL 213 PSI. BREAK DOWN FORMATION @ 10.6. BPM, 834 PSI. PUMPED 93 BBL'S 15 % HCL & 90 BIO-BALLS. ISIP-763. EST HOLE'S OPEN 32. FRAC GRADIENT .54. PUMP X- LINK FRAC. AVG RATE- 70.3. MAX RATE- 71.1. AVG PSI- 2608. MAX- PSI- 3197. TOTAL BBL'S 3% KCL - 2871. TOTAL X- LINK FLUID - 58,830 GAL. TOTAL 100 MESH SAND - 12,1001# TOTAL 20/40 SAND- 156,900#. ISIP- 1028. FRAC GRADIENT .58,
12:30	1.50	14:00	PFRT	Perforating	R/U SLB E-LINE. RIH W/ 10K 5-1/2 CBP & 3-1/8 3104 PJO PERF GUN'S, 16 GRAMS, 120 PHASING. SET 5-1/2 10K CBP @ 7601' PERF STG #4 F/ 7291' TO 7581'. POOH W/ PERF GUN & SETTING TOOL. ALL GUNS FIRED. TOTAL HOLE'S 45. R/D SLB E-LINE.
14:00	1.00	15:00	FRAC	Frac. Job	R/U HALCO FRAC CREW. PRESSURE TEST LINE'S & EQUIPMENT TO 9500 PSI. OPEN WELL 692 PSI. BREAK DOWN FORMATION @ 9.8. BPM, 1527 PSI. PUMPED 93 BBL'S 15 % HCL & 90 BIO-BALLS. ISIP-763. EST HOLE'S OPEN 45. FRAC GRADIENT .59. PUMP X- LINK FRAC. AVG RATE- 70.1. MAX RATE- 75.5. AVG PSI- 2618. MAX- PSI- 2961. TOTAL BBL'S 3% KCL - 2889. TOTAL X- LINK FLUID - 50,243 GAL. TOTAL 100 MESH SAND - 9200# TOTAL 20/40 SAND- 161,100#. ISIP- 1616. FRAC GRADIENT .66,
15:00	1.50	16:30	PFRT	Perforating	R/U SLB E-LINE. RIH W/ 10K 5-1/2 CBP & 3-1/8 3104 PJO PERF GUN'S, 16 GRAMS, 120 PHASING. SET 5-1/2 10K CBP @ 7280'. PERF STG #5 F/ 6967' TO 7260'. POOH W/ PERF GUN & SETTING TOOL. ALL GUNS FIRED. TOTAL HOLE'S 45. R/D SLB E-LINE.
16:30	13.50	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE.

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: FEE
1. TYPE OF WELL Oil Well	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: BILL BARRETT CORP	7. UNIT or CA AGREEMENT NAME: AURORA (DEEP)
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	8. WELL NAME and NUMBER: AURORA 15-8-7-20
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	9. API NUMBER: 43047515090000
9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 8/24/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

This well had first oil sales on 8/24/2012. It is not currently producing any gas.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 August 30, 2012**

NAME (PLEASE PRINT) Venessa Langmacher	PHONE NUMBER 303 312-8172	TITLE Senior Permit Analyst
SIGNATURE N/A	DATE 8/29/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
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 15-8-7-20
2. NAME OF OPERATOR: BILL BARRETT CORP	9. API NUMBER: 43047515090000
3. ADDRESS OF OPERATOR: 1099 18th Street Ste 2300 , Denver, CO, 80202	PHONE NUMBER: 303 312-8164 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0212 FSL 2432 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 08 Township: 07.0S Range: 20.0E Meridian: S	9. FIELD and POOL or WILDCAT: BRENNAN BOTTOM COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

August 2012 monthly drilling activity report is attached.

**Accepted by the
 Utah Division of
 Oil, Gas and Mining
 FOR RECORD ONLY
 September 07, 2012**

NAME (PLEASE PRINT) Megan Finnegan	PHONE NUMBER 303 299-9949	TITLE Permit Analyst
SIGNATURE N/A	DATE 9/4/2012	

**Aurora 15-8-7-20 8/1/2012 06:00 - 8/2/2012 06:00**

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.	
07:00	12.00	19:00	DOPG	Drill Out Plugs	R/U POWER SWIVEL. BREAK CIRC. D/O KILL PLUG @ 6200'. CFP- 700. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 6538'. CFP- 750. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 6868'. CFP- 600. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 7280'. CFP- 400. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 7601'. CFP- 300. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 7880'. CFP- 400. SWIVEL IN HOLE. C/O SAND ON TOP OF PLUG. D/O CBP @ 7880'. CFP- 350 C/O SOILD SAND F/ 8201 TO FLOAT COLLAR @ 8499'. CIRC WELL CLEAN. R/D SWIVEL.	
19:00	1.00	20:00	PULT	Pull Tubing	PULL ABOVE PERFS STANDING BACK TBG. CFP- 250 ON 32/64 CHOKE. SWIFN.	
20:00	10.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE. CREW TRAVEL.	

Aurora 15-8-7-20 8/2/2012 06:00 - 8/3/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
06:00	1.00	07:00	CTRL	Crew Travel	CREW TRAVEL. HOLD SAFETY MEETING.	
07:00	1.00	08:00	RUTB	Run Tubing	SICP- 450, STTP- 0. RIH F/ TOP OF PERFS W/ 4-3/4 BIT, TAG SAND 60' HIGH @ 8439'.	
08:00	3.00	11:00	CLN	Clean Out Hole	R/U POWER SWIVEL. BREAK CIRC. C/O SAND & D/O FLOAT COLLAR @ 8499'. C/O CMT TO 8562' PBDT. CIRC WELL CLEAN. R/D SWIVEL.	
11:00	2.00	13:00	PULT	Pull Tubing	PULL ABOVE PERFS L/D 2-7/8 TBG TO 6212' & LAND TBG. 195 JTS IN HOLE.	
13:00	2.00	15:00	IWHD	Install Wellhead	R/D FLOOR & EQUIPMENT. N/D BOP. N/U WELLHEAD. DROP BALL DOWN TBG & PUMPED BIT OFF @ 2500 PSI. R/U TBG TO SALES LINE. TURN WELL OVER TO FLOW BACK.	
15:00	2.50	17:30	SRIG	Rig Up/Down	R/D RIG & EQUIPMENT. CLEAN LOCATION. ROAD RIG TO 13H-31-36.	
17:30	1.50	19:00	SRIG	Rig Up/Down	R/U RIG & EQUIPMENT ON 13H-31. SDFN.	
19:00	11.00	06:00	LOCL	Lock Wellhead & Secure	WELL SHUT IN & SECURE. CREW TRAVEL.	

Aurora 15-8-7-20 8/9/2012 00:00 - 8/10/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,600.0	Primary Job Type Drilling & Completion
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Time Log						
Start Time	Dur (hr)	End Time	Code	Category	Com	
00:00	1.00	01:00	CTRL	Crew Travel	Crew travel, safety meeting	
01:00	2.00	03:00	RMOV	Rig Move	MOVE RIG TO THE AURORA 15 -8-7-20	
03:00	1.00	04:00	SRIG	Rig Up/Down	SIRU/ DERRICK INSPECTION	
04:00	2.00	06:00	BOPI	Install BOP's	SHOW HOT OILER HOW TO KILL WELL, GET WELL KILLED , NU BOP, FUNCTION TEST, RU WORKFLOOR, RU TBG TONGS	
06:00	2.00	08:00	PULT	Pull Tubing	POOH W/ 193 JNTS, XN NIPPLE , 1 JNT, TOP OF POBS	
08:00	1.50	09:30	RUTB	Run Tubing	RIH W/ BULL PLUG, 5 JNTS, D -SANDER, 4 FT SUB, TBG PUMP, TAC, 194 MORE JNTS	
09:30	1.00	10:30	LOCL	Lock Wellhead & Secure	RD WORKFLOOR, ND BOP, SET TAC W/ 20,000 PULLED INTO IT, LAND WELL, SWIFN, CLEAN UP, SDFN	
10:30	1.00	11:30	CTRL	Crew Travel	Crew travel	

Aurora 15-8-7-20 8/10/2012 06:00 - 8/11/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,600.0	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, safety meeting
07:00	6.00	13:00	RURP	Run Rods & Pump	PU RIH W/25 -225 -THBC -24 -4-26 TBG PUMP, SHEAR SUB, 22 - 1" 4 PER KD RODS, 106 3/4" KD RODS, 117 7/8" KD RODS, 8FT, 4FT, AND 2FT 7/8" PONIES, PU 30 FT X 1 1/2" POLISH ROD
13:00	1.00	14:00	GOP	General Operations	STROKE W/ RIG UP TO 800 PSI, HANG HORSE HEAD, NU UNIT
14:00	1.00	15:00	SRIG	Rig Up/Down	RIG / EQUIPMENT DOWN
15:00	1.00	16:00	RMOV	Rig Move	MOVE RIG / EQUIPMENT OVER TO THE 3 -20, SI LEVEL UP RIG
16:00	1.00	17:00	CTRL	Crew Travel	Crew travel

Aurora 15-8-7-20 8/16/2012 06:00 - 8/17/2012 06:00

API/UWI 43047515090000	State/Province UT	County	Field Name Aurora	Well Status PRODUCING	Total Depth (ftKB) 8,600.0	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			MIRU RIG & EQUIPMENT. R/D HORSE HEAD. ADD 4' 7/8 PONY BELOW POLISH ROD. STROKE W/ RIG HOLDING GOOD PRESSURE. R/U HORSE HEAD. R/D RIG. PUT WELL ON PRODUCTION.

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER: FEE			
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						7. UNIT OR CA AGREEMENT NAME AURORA (DEEP)			
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						8. WELL NAME AND NUMBER: AURORA 15-8-7-20			
2. NAME OF OPERATOR: BILL BARRETT CORPORATION						9. API NUMBER: 4304751509			
3. ADDRESS OF OPERATOR: 1099 18TH ST STE 2300 CITY DENVER STATE CO ZIP 80202				PHONE NUMBER: (303) 299-9949		10. FIELD AND POOL, OR WILDCAT BRENNAN BOTTOM			
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 212 FSL 2432 FEL AT TOP PRODUCING INTERVAL REPORTED BELOW: 171FSL 2425 FEL AT TOTAL DEPTH: 133 FSL 2427 FEL						11. QTR/QR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 8 7S 20E S			
						12. COUNTY UINATH	13. STATE UTAH		
14. DATE SPUNDED: 6/11/2012		15. DATE T.D. REACHED: 7/12/2012		16. DATE COMPLETED: 8/24/2012		17. ELEVATIONS (DF, RKB, RT, GL): 4879' GL			
18. TOTAL DEPTH: MD 8,600 TVD 8,599		19. PLUG BACK T.D.: MD 8,495 TVD 8,494		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD PLUG SET: TVD			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL Triple Combo, Mud						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)			
24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/L)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
26	16 cond	65#	0	148	148			0	
14 3/4	9 5/8 J-55	45.5#	0	1,534	1,529	430	155	0	
12 1/4	5 1/2 P110	17	0	8,600	8,587	1,475	461	2478	
25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2 7/8	6,376								
26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) GREEN RIVER	6,242	8,028			6,242 8,028			Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B) WASATCH	8,047	8,440			8,047 8,440			Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.								RECEIVED	
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL							
6242' to 8028'		GREEN RIVER: SEE TREATMENT STAGES 3-7						OCT 19 2012	
8047' to 8440'		WASATCH: SEE TREATMENT STAGES 1-2							
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:	
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS		<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY		POW	
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION		<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____					

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #25)

DATE FIRST PRODUCED: 8/24/2012		TEST DATE: 9/3/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL - BBL: 115	GAS - MCF: 22	WATER - BBL: 264	PROD. METHOD: Flowing
CHOKE SIZE: 6/64	TBG. PRESS. 200	CSG. PRESS. 60	API GRAVITY	BTU - GAS	GAS/OIL RATIO 191	24 HR PRODUCTION RATES: →	OIL - BBL: 115	GAS - MCF: 22	WATER - BBL: 264	INTERVAL STATUS: Producing	

INTERVAL B (As shown in Item #26)

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

INTERVAL C (As shown in Item #26)

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

INTERVAL D (As shown in Item #26)

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

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	3,937
				MAHOGANY	5,331
				DOUGLAS CREEK	6,604
				BLACK SHALE	7,204
				CASTLE PEAK	7,467
				UTELAND BUTTE	7,733
				WASATCH	8,036
				TD	8,600

35. ADDITIONAL REMARKS (include plugging procedure)

TOC was calculated by CBL. Treatment data attached.

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

NAME (PLEASE PRINT) Julie Webb

TITLE Permit Analyst

SIGNATURE *Julie Webb*

DATE 9/27/2012

This report must be submitted within 30 days of

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

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

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

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>BBLs Slurry</u>	<u>lbs 100 Mesh Sand</u>	<u>lbs 20/40 White Sand</u>
1	2,930	9,600	141,200
2	2,783	10,800	150,400
3	2,826	9,000	150,000
4	3,072	9,200	161,100
5	2,874	9,000	155,400
6	2,590	7,800	140,900
7	2,830	4,640	147,140

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

RECEIVED

OCT 19 2012

DIV. OF OIL, GAS & MINING

CONFIDENTIAL



Bill Barrett Corporation

Bill Barrett Corp. (II)

Uintah Co., UT (NAD27)

Sec.8-T7S-R20E

Aurora #15-8-7-20

Wellbore #1

Survey: MWD

Standard Survey Report

23 July, 2012

RECEIVED

OCT 19 2012

DIV. OF OIL, GAS & MINING





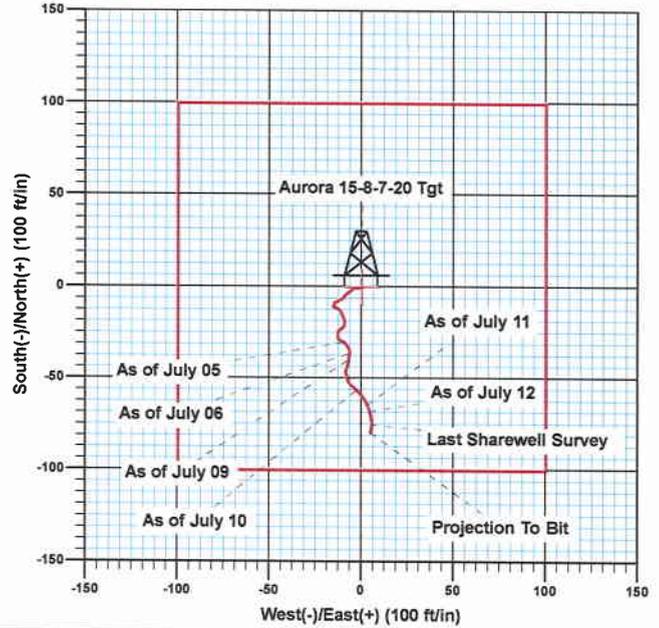
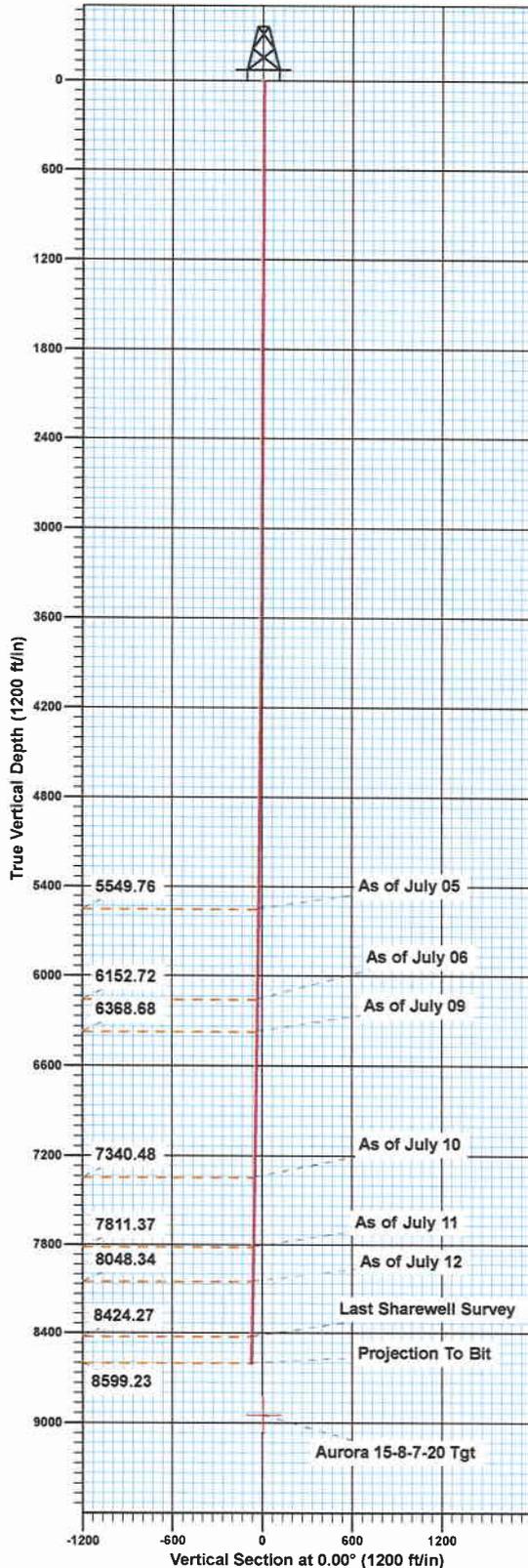
Bill Barrett Corporation

Aurora #15-8-7-20

US State Plane 1927 (Exact solution) Utah Central 4302
 +N/-S +E/-W Northing Easting Latitude Longitude
 0.00 0.00 691737.42 2504798.15 40° 13' 6.61 N 109° 41' 31.94 W



Sec.8-T7S-R20E
 GL @ 4878.00



ANNOTATIONS

TVD	MD	Inc	Azi	+N/-S	+E/-W	Vsect	Departure	Annotation
5549.76	5550.00	0.800	129.30	-30.29	-9.35	-30.29	47.54	As of July 05
6152.72	6153.00	0.841	194.48	-36.57	-6.97	-36.57	54.89	As of July 06
6368.68	6369.00	0.900	181.00	-40.27	-7.38	-40.27	58.61	As of July 09
7340.48	7341.00	1.600	134.30	-56.68	-2.55	-56.68	77.72	As of July 10
7811.37	7812.00	0.700	159.90	-64.90	3.16	-64.90	87.83	As of July 11
8048.34	8049.00	0.900	159.70	-68.41	4.07	-68.41	91.48	As of July 12
8424.27	8425.00	1.300	189.70	-75.57	5.29	-75.57	98.86	Last Sharewell Survey
8599.23	8600.00	1.300	188.10	-79.49	4.67	-79.49	102.83	Projection To Bit

T

M Azimuths to True North
 Magnetic North: 11.05°

Magnetic Field
 Strength: 52318.7snT
 Dip Angle: 65.98°
 Date: 06/27/2012
 Model: IGRF2010

Company: Bill Barrett Corp. (II)
Project: Uintah Co., UT (NAD27)
Site: Sec.8-T7S-R20E
Well: Aurora #15-8-7-20
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Aurora #15-8-7-20
TVD Reference: WELL @ 4895.01ft
MD Reference: WELL @ 4895.01ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: CompassVM

Project	Uintah Co., UT (NAD27)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	Sec.8-T7S-R20E		
Site Position:		Northing:	691,737.42 usft
From:	Lat/Long	Easting:	2,504,798.15 usft
Position Uncertainty:	0.00 ft	Slot Radius:	1.10 ft
		Latitude:	40° 13' 6.61 N
		Longitude:	109° 41' 31.94 W
		Grid Convergence:	1.16 °

Well	Aurora #15-8-7-20		
Well Position	+N/-S	0.00 ft	Northing: 691,737.42 usft
	+E/-W	0.00 ft	Easting: 2,504,798.15 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	40° 13' 6.61 N
		Longitude:	109° 41' 31.94 W
		Ground Level:	4,878.01 ft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2012/06/27	11.05	65.98	52,319

Design	Wellbore #1				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00		0.00

Survey Program	Date	2012/07/23			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
180.00	8,600.00	MWD (Wellbore #1)	MWD	MWD - Standard	

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)	
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
180.00	0.500	261.00	180.00	-0.12	-0.78	-0.12	0.28	0.28	0.00	
First Sharewell Survey										
211.00	0.500	265.20	211.00	-0.16	-1.04	-0.16	0.12	0.00	13.55	
241.00	0.600	267.30	241.00	-0.17	-1.33	-0.17	0.34	0.33	7.00	
272.00	0.400	260.10	271.99	-0.20	-1.60	-0.20	0.67	-0.65	-23.23	
302.00	0.400	261.20	301.99	-0.23	-1.81	-0.23	0.03	0.00	3.67	
332.00	0.400	260.40	331.99	-0.27	-2.01	-0.27	0.02	0.00	-2.67	
362.00	0.400	258.60	361.99	-0.31	-2.22	-0.31	0.04	0.00	-6.00	
453.00	0.400	268.60	452.99	-0.38	-2.85	-0.38	0.08	0.00	10.99	
544.00	0.400	278.50	543.99	-0.34	-3.48	-0.34	0.08	0.00	10.88	

Company: Bill Barrett Corp. (II)
Project: Uintah Co., UT (NAD27)
Site: Sec.8-T7S-R20E
Well: Aurora #15-8-7-20
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Aurora #15-8-7-20
TVD Reference: WELL @ 4895.01ft
MD Reference: WELL @ 4895.01ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: CompassVM

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)
634.00	0.400	279.00	633.99	-0.24	-4.10	-0.24	0.00	0.00	0.56
726.00	0.400	240.40	725.98	-0.35	-4.70	-0.35	0.29	0.00	-41.96
817.00	0.400	233.40	816.98	-0.70	-5.23	-0.70	0.05	0.00	-7.69
878.00	0.400	215.40	877.98	-1.00	-5.52	-1.00	0.21	0.00	-29.51
973.00	0.400	224.80	972.98	-1.50	-5.95	-1.50	0.07	0.00	9.89
1,066.00	0.400	233.40	1,065.98	-1.93	-6.44	-1.93	0.06	0.00	9.25
1,160.00	0.500	236.90	1,159.97	-2.35	-7.05	-2.35	0.11	0.11	3.72
1,255.00	0.600	223.50	1,254.97	-2.93	-7.73	-2.93	0.17	0.11	-14.11
As of June 28									
1,349.00	0.500	236.10	1,348.97	-3.52	-8.41	-3.52	0.17	-0.11	13.40
1,443.00	0.500	224.10	1,442.96	-4.04	-9.04	-4.04	0.11	0.00	-12.77
1,464.00	0.500	220.70	1,463.96	-4.18	-9.16	-4.18	0.14	0.00	-16.19
As of June 29									
1,553.00	0.600	221.00	1,552.96	-4.82	-9.72	-4.82	0.11	0.11	0.34
1,584.00	0.500	208.50	1,583.96	-5.06	-9.89	-5.06	0.50	-0.32	-40.32
1,678.00	0.500	207.90	1,677.95	-5.79	-10.28	-5.79	0.01	0.00	-0.64
1,773.00	0.300	244.60	1,772.95	-6.26	-10.70	-6.26	0.33	-0.21	38.63
1,867.00	0.300	257.60	1,866.95	-6.42	-11.16	-6.42	0.07	0.00	13.83
1,962.00	0.300	239.90	1,961.95	-6.60	-11.62	-6.60	0.10	0.00	-18.63
2,055.00	0.400	260.10	2,054.95	-6.78	-12.15	-6.78	0.17	0.11	21.72
2,149.00	0.500	223.80	2,148.94	-7.13	-12.76	-7.13	0.31	0.11	-38.62
2,242.00	0.500	231.40	2,241.94	-7.67	-13.36	-7.67	0.07	0.00	8.17
2,336.00	0.800	257.90	2,335.94	-8.07	-14.32	-8.07	0.44	0.32	28.19
2,430.00	0.200	169.20	2,429.93	-8.37	-14.93	-8.37	0.87	-0.64	-94.36
2,524.00	0.000	219.00	2,523.93	-8.53	-14.90	-8.53	0.21	-0.21	0.00
2,620.00	0.000	246.30	2,619.93	-8.53	-14.90	-8.53	0.00	0.00	0.00
2,715.00	0.300	188.70	2,714.93	-8.77	-14.94	-8.77	0.32	0.32	0.00
2,810.00	0.100	167.00	2,809.93	-9.10	-14.95	-9.10	0.22	-0.21	-22.84
2,905.00	0.400	218.80	2,904.93	-9.44	-15.14	-9.44	0.37	0.32	54.53
2,999.00	0.600	213.30	2,998.92	-10.11	-15.62	-10.11	0.22	0.21	-5.85
3,093.00	0.200	132.10	3,092.92	-10.63	-15.77	-10.63	0.64	-0.43	-86.38
3,187.00	0.200	106.50	3,186.92	-10.78	-15.49	-10.78	0.09	0.00	-27.23
3,282.00	0.200	77.70	3,281.92	-10.80	-15.17	-10.80	0.10	0.00	-30.32
3,376.00	0.400	107.80	3,375.92	-10.86	-14.70	-10.86	0.26	0.21	32.02
3,470.00	0.400	123.00	3,469.92	-11.14	-14.11	-11.14	0.11	0.00	16.17
3,563.00	0.500	115.20	3,562.91	-11.49	-13.47	-11.49	0.13	0.11	-8.39
3,657.00	0.600	133.30	3,656.91	-12.00	-12.74	-12.00	0.21	0.11	19.26
3,753.00	0.700	137.00	3,752.90	-12.78	-11.97	-12.78	0.11	0.10	3.85
3,848.00	0.700	147.40	3,847.90	-13.69	-11.27	-13.69	0.13	0.00	10.95
3,943.00	1.000	165.70	3,942.88	-14.98	-10.75	-14.98	0.42	0.32	19.26
4,035.00	0.700	162.50	4,034.87	-16.29	-10.38	-16.29	0.33	-0.33	-3.48
4,130.00	0.600	154.40	4,129.87	-17.30	-9.99	-17.30	0.14	-0.11	-8.53
4,225.00	0.900	169.90	4,224.86	-18.48	-9.65	-18.48	0.38	0.32	16.32

Company: Bill Barrett Corp. (II)
Project: Uintah Co., UT (NAD27)
Site: Sec.8-T7S-R20E
Well: Aurora #15-8-7-20
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Aurora #15-8-7-20
TVD Reference: WELL @ 4895.01ft
MD Reference: WELL @ 4895.01ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: CompassVM

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)
As of July 02									
4,320.00	0.600	185.30	4,319.85	-19.71	-9.56	-19.71	0.38	-0.32	16.21
4,414.00	0.900	193.80	4,413.84	-20.92	-9.78	-20.92	0.34	0.32	9.04
4,509.00	0.700	230.80	4,508.84	-22.01	-10.41	-22.01	0.57	-0.21	38.95
As of July 03									
4,541.00	0.600	234.40	4,540.83	-22.23	-10.70	-22.23	0.34	-0.31	11.25
4,604.00	0.400	252.80	4,603.83	-22.49	-11.18	-22.49	0.40	-0.32	29.21
4,699.00	0.400	246.90	4,698.83	-22.71	-11.80	-22.71	0.04	0.00	-6.21
4,795.00	0.500	222.60	4,794.83	-23.15	-12.39	-23.15	0.22	0.10	-25.31
4,889.00	0.400	216.70	4,888.82	-23.72	-12.86	-23.72	0.12	-0.11	-6.28
4,982.00	0.700	183.10	4,981.82	-24.55	-13.09	-24.55	0.46	0.32	-36.13
5,077.00	1.000	180.10	5,076.81	-25.95	-13.12	-25.95	0.32	0.32	-3.16
5,172.00	1.100	171.90	5,171.79	-27.69	-12.99	-27.69	0.19	0.11	-8.63
5,267.00	0.400	101.90	5,266.78	-28.66	-12.54	-28.66	1.09	-0.74	-73.68
5,361.00	0.700	109.80	5,360.78	-28.92	-11.68	-28.92	0.33	0.32	8.40
5,456.00	0.900	120.80	5,455.77	-29.50	-10.49	-29.50	0.26	0.21	11.58
5,550.00	0.800	129.30	5,549.76	-30.29	-9.35	-30.29	0.17	-0.11	9.04
As of July 05									
5,644.00	0.700	165.90	5,643.75	-31.26	-8.70	-31.26	0.51	-0.11	38.94
5,739.00	0.400	113.10	5,738.75	-31.96	-8.26	-31.96	0.59	-0.32	-55.58
5,833.00	0.900	143.60	5,832.74	-32.68	-7.52	-32.68	0.63	0.53	32.45
5,928.00	0.600	166.50	5,927.74	-33.76	-6.96	-33.76	0.44	-0.32	24.11
6,023.00	0.800	172.30	6,022.73	-34.91	-6.75	-34.91	0.22	0.21	6.11
6,117.00	0.700	197.20	6,116.72	-36.10	-6.83	-36.10	0.36	-0.11	26.49
6,153.00	0.841	194.48	6,152.72	-36.57	-6.97	-36.57	0.40	0.39	-7.55
As of July 06									
6,168.00	0.900	193.60	6,167.72	-36.79	-7.02	-36.79	0.40	0.39	-5.87
6,274.00	1.100	184.60	6,273.70	-38.61	-7.30	-38.61	0.24	0.19	-8.49
6,369.00	0.900	181.00	6,368.68	-40.27	-7.38	-40.27	0.22	-0.21	-3.79
As of July 09									
6,400.00	0.900	189.70	6,399.68	-40.75	-7.43	-40.75	0.44	0.00	28.06
6,494.00	0.800	204.40	6,493.67	-42.08	-7.82	-42.08	0.25	-0.11	15.64
6,589.00	1.000	192.00	6,588.66	-43.49	-8.27	-43.49	0.29	0.21	-13.05
6,684.00	1.000	204.10	6,683.64	-45.06	-8.78	-45.06	0.22	0.00	12.74
6,778.00	0.800	175.90	6,777.64	-46.30	-9.08	-46.30	0.59	-0.43	-30.00
6,872.00	1.000	149.90	6,871.63	-47.50	-8.64	-47.50	0.56	0.43	-27.66
6,965.00	1.400	171.10	6,964.61	-49.33	-8.05	-49.33	0.64	0.43	22.80
7,059.00	1.100	162.00	7,058.58	-51.32	-7.60	-51.32	0.38	-0.32	-9.68
7,153.00	1.500	136.10	7,152.56	-53.06	-6.46	-53.06	0.75	0.43	-27.55
7,247.00	1.700	130.50	7,246.52	-54.86	-4.55	-54.86	0.27	0.21	-5.96
7,341.00	1.600	134.30	7,340.48	-56.68	-2.55	-56.68	0.16	-0.11	4.04
As of July 10									
7,435.00	1.500	144.20	7,434.45	-58.59	-0.89	-58.59	0.30	-0.11	10.53
7,529.00	1.300	138.40	7,528.42	-60.39	0.54	-60.39	0.26	-0.21	-6.17
7,623.00	1.100	147.60	7,622.40	-61.95	1.73	-61.95	0.29	-0.21	9.79

Company: Bill Barrett Corp. (II)
Project: Uintah Co., UT (NAD27)
Site: Sec.8-T7S-R20E
Well: Aurora #15-8-7-20
Wellbore: Wellbore #1
Design: Wellbore #1

Local Co-ordinate Reference: Well Aurora #15-8-7-20
TVD Reference: WELL @ 4895.01ft
MD Reference: WELL @ 4895.01ft
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: CompassVM

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)
7,717.00	1.100	155.60	7,716.38	-63.53	2.58	-63.53	0.16	0.00	8.51
7,812.00	0.700	159.90	7,811.37	-64.90	3.16	-64.90	0.43	-0.42	4.53
As of July 11									
7,907.00	0.800	158.70	7,906.36	-66.07	3.60	-66.07	0.11	0.11	-1.26
7,986.00	1.100	175.90	7,985.35	-67.34	3.85	-67.34	0.52	0.38	21.77
8,049.00	0.900	159.70	8,048.34	-68.41	4.07	-68.41	0.55	-0.32	-25.71
As of July 12									
8,143.00	1.000	158.10	8,142.33	-69.86	4.63	-69.86	0.11	0.11	-1.70
8,237.00	1.200	173.70	8,236.31	-71.60	5.04	-71.60	0.38	0.21	16.60
8,332.00	1.200	170.90	8,331.29	-73.57	5.31	-73.57	0.06	0.00	-2.95
8,425.00	1.300	189.70	8,424.27	-75.57	5.29	-75.57	0.45	0.11	20.22
Last Sharewell Survey									
8,600.00	1.300	188.10	8,599.23	-79.49	4.67	-79.49	0.02	0.00	-0.91
Projection To Bit									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
180.00	180.00	-0.12	-0.78	First Sharewell Survey
1,255.00	1,254.97	-2.93	-7.73	As of June 28
1,464.00	1,463.96	-4.18	-9.16	As of June 29
4,225.00	4,224.86	-18.48	-9.65	As of July 02
4,509.00	4,508.84	-22.01	-10.41	As of July 03
5,550.00	5,549.76	-30.29	-9.35	As of July 05
6,153.00	6,152.72	-36.57	-6.97	As of July 06
6,369.00	6,368.68	-40.27	-7.38	As of July 09
7,341.00	7,340.48	-56.68	-2.55	As of July 10
7,812.00	7,811.37	-64.90	3.16	As of July 11
8,049.00	8,048.34	-68.41	4.07	As of July 12
8,425.00	8,424.27	-75.57	5.29	Last Sharewell Survey
8,600.00	8,599.23	-79.49	4.67	Projection To Bit

Checked By: _____ Approved By: _____ Date: _____

4304751285,
4304752006,
4304752005,

4304751509,
4304752129,
4304752394



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)
UT922000

April 19, 2013

RECEIVED
JUN 14 2013
Div. of Oil, Gas & Mining

Mr. Thomas Abell
Bill Barrett Corporation
1099 18th Street, Suite 2300
Denver, Colorado 80202

Re: Initial Green River-Wasatch
Participating Areas
"C" "D" "E" "F" "G" and "H"
Aurora (Deep) Unit
Uintah County, Utah

Dear Mr. Abell:

The Initial Green River-Wasatch Participating Area "C", Aurora (Deep) Unit, UTU82456E, is hereby approved effective as of February 24, 2011, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "C" contains 151.15 acres and is based on the completion of Unit Well No. Four Star 7-32-7-20, API No. 43-047-51285, located in the NE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 7, Township 7 South, Range 20 East, SLB&M, Unit Tract No. 24, Fee Lease, as a well capable of producing unitized substances in paying quantities.

The Initial Green River-Wasatch Participating Area "D", Aurora (Deep) Unit, UTU82456F, is hereby approved effective as of April 16, 2012, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "D" contains 160.00 acres and is based on the completion of Unit Well No. Aurora 15-28D-7-20, API No. 43-047-52006, located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 28, Township 7 South, Range 20 East, SLB&M, Unit Tract No. 16, Lease No. UTU80689, as a well capable of producing unitized substances in paying quantities.

The Initial Green River-Wasatch Participating Area "E", Aurora (Deep) Unit, UTU82456G, is hereby approved effective as of May 5, 2012, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "E" contains 160.00 acres and is based on the completion of Unit Well No. Aurora 3-20D-7-20, API No. 43-047-52005, located in the NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 20, Township 7 South, Range 20 East, SLB&M, Unit Tract No. 8, Lease No. UTU75093, as a well capable of producing unitized substances in paying quantities.

Please be advised that the Unit Well No. Wall 13-17 API No. 43-047-36668, located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 17, Township 7 South, Range 20 East, SLB&M, was recompleted in the Green River-Wasatch Formation on July 18, 2012, and determined to be a well capable of producing unitized substances in paying quantities by our office on April 1, 2013. The first revision of the Green River-Wasatch Participating Area "E", when submitted by your office, will be effective July 1, 2012.

The Initial Green River-Wasatch Participating Area "F", Aurora (Deep) Unit, UTU82456H, is hereby approved effective as of August 24, 2012, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "F" contains 160.00 acres and is based on the completion of Unit Well No. Aurora 15-8-7-20, API No. 43-047-51509, located in the SW $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 8, Township 7 South, Range 20 East, SLB&M, Unit Tract No. 25, Fee Lease, as a well capable of producing unitized substances in paying quantities.

The Initial Green River-Wasatch Participating Area "G", Aurora (Deep) Unit, UTU82456I, is hereby approved effective as of October 31, 2012, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "G" contains 160.00 acres and is based on the completion of Unit Well No. Aurora 3-16D-7-20, API No. 43-047-⁵²¹²⁹~~51129~~, located in the SE $\frac{1}{4}$ NW $\frac{1}{4}$ of Section 16, Township 7 South, Range 20 East, SLB&M, Unit Tract No. 32, Fee Lease, as a well capable of producing unitized substances in paying quantities.

The Initial Green River-Wasatch Participating Area "H", Aurora (Deep) Unit, UTU82456J, is hereby approved effective as of November 12, 2012, pursuant to Section 11 of the Aurora (Deep) Unit Agreement, Uintah County, Utah.

The Initial Green River-Wasatch Participating Area "H" contains 160.00 acres and is based on the completion of Unit Well No. Aurora 9-1D-7-20¹⁹, API No. 43-047-52394, located in the NE¼SE¼ of Section 1, Township 7 South, Range 20¹⁹ East, SLB&M, Unit Tract No. 20, Fee Lease, as a well capable of producing unitized substances in paying quantities.

Copies of the approved requests are being distributed to the appropriate regulatory agencies and one copy is returned herewith. Please advise all interested parties of the approval of the Initial Green River-Wasatch Participating Areas "C" "D" "E" "F" "G" and "H", Aurora (Deep) Unit and their effective dates.

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

Sincerely,

/s/ Roger L. Bankert

Roger L. Bankert
Chief, Branch of Minerals

Enclosure

cc: ONRR w/Exhibit "B" (Attn: Nancy McCarty)
BLM FOM - Vernal w/enclosure

bcc: Unit file – Aurora (Deep) Unit w/enclosure
Fluids – Mickey
Fluids - Becky
Fluids - Judy
Agr. Sec. Chron.
Reading File
Central Files

JNordstrom:4/18/2013

43-04751509



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

MAR 18 2014

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

RECEIVED

MAR 20 2014

DIV. OF OIL, GAS & MINING

Re: Initial Green River – Wasatch
Formation Participating Area (PA)
“F” Aurora (Deep) Unit
Uintah County, Utah

Dear Mr. Funk:

TS ZDE 8

We have received your letter dated January 27, 2014, requesting that the previous approval of the Green River – Wasatch Formation Participating Area “F”, UTU82456H, Aurora (Deep) Unit be rescinded and a new participating area be approved. The request is necessitated by the close proximity of the Aurora (Deep) Unit Well No. 15-8-7-20 to adjacent Fee Mineral Estates.

The new approval is effective August 24, 2012, the same date as the prior approval.

Copies of the approved request are being distributed to the appropriate agencies and one copy is returned herewith. Please advise all interested parties of the approval of the Initial Green River - Wasatch Formation PA “F”, Aurora (Deep) Unit and its effective date.

If there are any questions regarding this decision, please contact Judy Nordstrom at (801) 539-4108.

Roger L. Bankert
Chief, Branch of Minerals