

FORM  
4  
Rev 12/05State of Colorado  
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax: (303)894-2109



## SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 10071	4. Contact Name: Tracey Fallang	Complete the Attachment Checklist
2. Name of Operator: Bill Barrett Corporation	Phone: 303-312-8134	
3. Address: 1099 18th Street, Suite 2300	Fax: 303-291-0420	OP OGCC
City: Denver State: CO Zip: 80202		
5. API Number 05- pending	OGCC Facility ID Number	Survey Plat
6. Well/Facility Name: Gray	7. Well/Facility Number 14N-15-37-17	Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESW, Sec. 15, T37N, R17W, NMPM		Surface Eqpm Diagram
9. County: Montezuma	10. Field Name: 99999	Technical Info Page
11. Federal, Indian or State Lease Number:		Other

## General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> attach directional survey
Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer	
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No <input type="checkbox"/>
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code Spacing order number Unit Acreage Unit configuration
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date:	
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From: NUMBER	
To:	
Effective Date:	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
MIT required if shut in longer than two years. Date of last MIT	
<input type="checkbox"/> SPUD DATE:	
<input checked="" type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)	
<input type="checkbox"/> SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK	
*submit cbl and cement job summaries	
Method used	Cementing tool setting/perf depth Cement volume Cement top Cement bottom Date
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	
<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.	

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done	
Approximate Start Date:	Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input checked="" type="checkbox"/> Casing/Cementing Program Change	<input type="checkbox"/> Other:	for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Tracey Fallang Date: 04/08/2010 Email: tfallang@billbarrettcorp.com

Print Name: Tracey Fallang Title: Regulatory Analyst

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 10071	API Number:
2. Name of Operator: Bill Barrett Corporation	OGCC Facility ID #
3. Well/Facility Name: Gray	Well/Facility Number: 14N-15-37-17
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SESW, Sec. 15, T37N, R17W, NMPM	

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Two options for the casing/cementing design are being requested. As this is still exploratory in nature, BBC would like to have the option to either run an intermediate string in this well or omit it and set only a production string cemented to surface. The horizontal plans submitted with the APD will not change other than the potential omission of the 7" string casing noted. Please see the attached spreadsheet for the two options proposed.

Gray 14N-15-37-17 Casing-Cementing Options

	Size of Hole	Size of Casing	Weight/ft	Setting Depth (MD)	Sx Cement	Cmt Btm	Cmt Top
<b>Option A - Swell Packers in Open Hole</b>							
Conductor	26"	16"	65#	80'	grout	80'	surface
Surface	12 1/4"	9 5/8"	36#	2000'	760	2000'	surface
Intermediate	8 3/4"	7"	26#	5968'	800	5968'	surface
Production	6 1/8"	4 1/2"	11.6# or 15.1#	9808'	N/A	N/A	N/A
<b>Option B - Cemented Production Casing to Surface (no intermediate string)</b>							
Conductor	26"	16"	65#	80'	grout	80'	surface
Surface	12 1/4"	9 5/8"	36#	2000'	760	2000'	surface
Production	6 1/8"	4 1/2"	11.6# or 15.1#	9808'	1320	9808'	surface

BBC will provide cement coverage to surface on either option, for each string cemented. If the cement drops out of eyesight following circulation, BBC will run a temperature log.



# Bill Barrett Corporation

## YELLOW JACKET CEMENT VOLUMES

Well Name: Gray 14N-15-37-17

### Surface Hole Data:

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

### Calculated Data:

Lead Volume:	469.8	ft <sup>3</sup>
Lead Fill:	1,800'	
Tail Volume:	186.6	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	1.98	ft <sup>3</sup> /sk
Tail Yield:	1.15	ft <sup>3</sup> /sk
% Excess:	100%	

### Calculated # of Sacks:

# SK's Lead:	480
# SK's Tail:	250

### Intermediate Hole Data: Option A

Total Depth:	5,968'
Top of Cement:	0'
OD of Hole:	8.750"
OD of Casing:	7.000"

### Calculated Data:

Lead Volume:	897.2	ft <sup>3</sup>
Lead Fill:	5,968'	

### Cement Data:

Lead Yield:	1.47	ft <sup>3</sup> /sk
% Excess:	30%	

### Calculated # of Sacks:

# SK's Lead:	800
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### Production Hole Data: Option B

Total Depth:	9808
Top of Cement:	0
OD of Hole:	6.125
OD of Casing:	4.5

### Calculated Data:

Lead Volume:	1349.67	ft <sup>3</sup>
Lead Fill:	9808	

### Cement Data:

Lead Yield:	1.331	ft <sup>3</sup> /sk
% Excess:	30%	

### Calculated # of Sacks:

# SK's Lead:	1,320
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# **Gray 14N-15-37-17 Proposed Cementing Program**

<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1500' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 12.3 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.98 ft <sup>3</sup> /sk
0.25 lbm/sk Ploy-E-Flake	Total Mixing Fluid: 10.6 Gal/sk
	Top of Fluid: 0'
	Calculated Fill: 1,500'
	Volume: 167.33 bbl
	<b>Proposed Sacks: 480 sks</b>
<b>Tail Cement - (2000' - 1500')</b>	
Premium Cement	Fluid Weight: 15.8 lbm/gal
94 lbm/sk Premium Cement	Slurry Yield: 1.15 ft <sup>3</sup> /sk
1.0% Calcium Chloride	Total Mixing Fluid: 5.2 Gal/sk
0.25 lbm/sk Ploy-E-Flake	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 59.05 bbl
	<b>Proposed Sacks: 280 sks</b>

<u>Job Recommendation</u>	<u>Intermediate Casing</u>
<b>Lead Cement - (5968' - 0')</b>	
50/50 Poz Premium	Fluid Weight: 13 lbm/gal
3.0 % Bentonite Total	Slurry Yield: 1.47 ft <sup>3</sup> /sk
5.0 lbm/sk Gilsomite	Total Mixing Fluid: 6.39 Gal/sk
0.6% Halad®-9	Top of Fluid: 0'
0.3% CFR-3	Calculated Fill: 5,968'
0.125 lbm/sk Flocele	Volume: 207.71 bbl
	<b>Proposed Sacks: 800 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (9808' - 0')</b>	
50/50 Poz Premium	Fluid Weight: 13.5 lbm/gal
4.0 % Bentonite Total	Slurry Yield: 1.33 ft <sup>3</sup> /sk
0.5% Halad®-344	Total Mixing Fluid: 5.818 Gal/sk
0.4% Halad 413	Top of Fluid: 0'
0.3% Econolite	Calculated Fill: 9,808'
0.2% Versaset	
0.4% HR-5 (Retarder)	
0.3% Super CBL (Expander)	Volume: 560.30 bbl
	<b>Proposed Sacks: 1320 sks</b>