



# Bill Barrett Corporation

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## Intermediate Post Job Report

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Anschutz State 5-62-26-3340C

S:27 T:5N R:62W Weld CO

Quote #:

| Execution #:





# Bill Barrett Corporation

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Attention: Mr. Matthew Schwartz | (303) 312-8142 | [maschwartz@billbarrettcorp.com](mailto:maschwartz@billbarrettcorp.com)

Bill Barrett Corporation | 1099 18th St. | Denver, CO. 80202

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Dear Mr. Matthew Schwartz,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely,  
Jacob Ojeda  
Field Engineer I | (763) 516-3012 | [jacob.ojeda@bjservices.com](mailto:jacob.ojeda@bjservices.com)

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

Sales Office 999 18th St. Suite 1200 Denver, CO 80202  
Phone: (281) 408-2361

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# Cementing Treatment



**Start Date** 4/12/18 **Well** Anschutz State 5-62-26-3340C  
**End Date** 4/12/18 **County** WELD  
**Client** BILL BARRETT CORPORATION **State/Province** CO  
**Service Supervisor** C. Johnson **API** 05-123-46084  
**District** Cheyenne, WY **Type of Job** Intermediate

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade
Open Hole	8.75			6,755.00		18.00	
Casing	6.37	7.00	23.00	6,740.00			J-55
Previous Casing	8.92	9.63	36.00	817.00			

**Shoe Length (ft):** 47

## HARDWARE

**Top Plug Used?** Yes **Top Plug Size** 7"  
**Top Plug Provided By** BBC **Landing Collar Depth (ft)** 6,693

## CIRCULATION PRIOR TO JOB

**Well Circulated By** Rig **PV Mud Out** 13  
**Circulation Prior to Job** Yes **YP Mud In** 8  
**Circulation Time (min)** 30 **YP Mud Out** 8  
**Circulation Rate (bpm)** 6 **Solids Present at End of Circulation** No  
**Circulation Volume (bbls)** 180 **10 sec SGS** 2  
**Mud Density In (ppg)** 10 **10 min SGS** 6  
**Mud Density Out (ppg)** 10 **Flare Prior to/during the Cement Job** No  
**PV Mud In** 13 **Gas Present** No

## TEMPERATURE

**Ambient Temperature (°F)** 75 **Mix Water Temperature (°F)** 70

# Cementing Treatment



## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	11.0000			0.00				20.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0735	11.83	600.00	4,400.00	380	779.0000	138.6000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1550	4.98	5,000.00	1,750.00	280	320.0000	56.9000
Displacement Final	Water	8.3300			0.00			0.0000	264.1000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	1.0200	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	Spacer Surfactant, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.6000	PPB
Lead Slurry	BJCem I100.3.01C	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem I100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.4000	BWOB
Tail Slurry	BJCem I100.6.01C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	BJCem I100.6.01C	DISPERSANT, CD-31	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.1000	BWOB
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	0.2000	BWOB

# Cementing Treatment



## TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
IntegraGuard EZ Spacer	4.00	20.00	200
BJCem I100.3.01C	6.00	138.60	500
BJCem I100.6.01C	6.00	56.90	300
Water	8.00	264.10	1000

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amount of Cement Returned/Reversed</b>	13
<b>Calculated Displacement Volume (bbls)</b>	263	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Volume (bbls)</b>	263	<b>Amount of Spacer to Surface</b>	20
<b>Did Float Hold?</b>	Yes	<b>Pressure Left on Casing (psi)</b>	0
<b>Bump Plug</b>	Yes	<b>Amount Bled Back After Job</b>	2
<b>Bump Plug Pressure (psi)</b>	1800	<b>Total Volume Pumped (bbls)</b>	520
<b>Were Returns Planned at Surface</b>	Yes	<b>Top Out Cement Spotted</b>	No
<b>Cement returns During Job</b>	Yes	<b>Lost Circulation During Cement Job</b>	No

Customer Name BBC  
 Well Name Anschutz State 5-62-26-3340C  
 Job Type Intermediate

District Cheyenne  
 Supervisor C. Johnson  
 Engineer \_\_\_\_\_

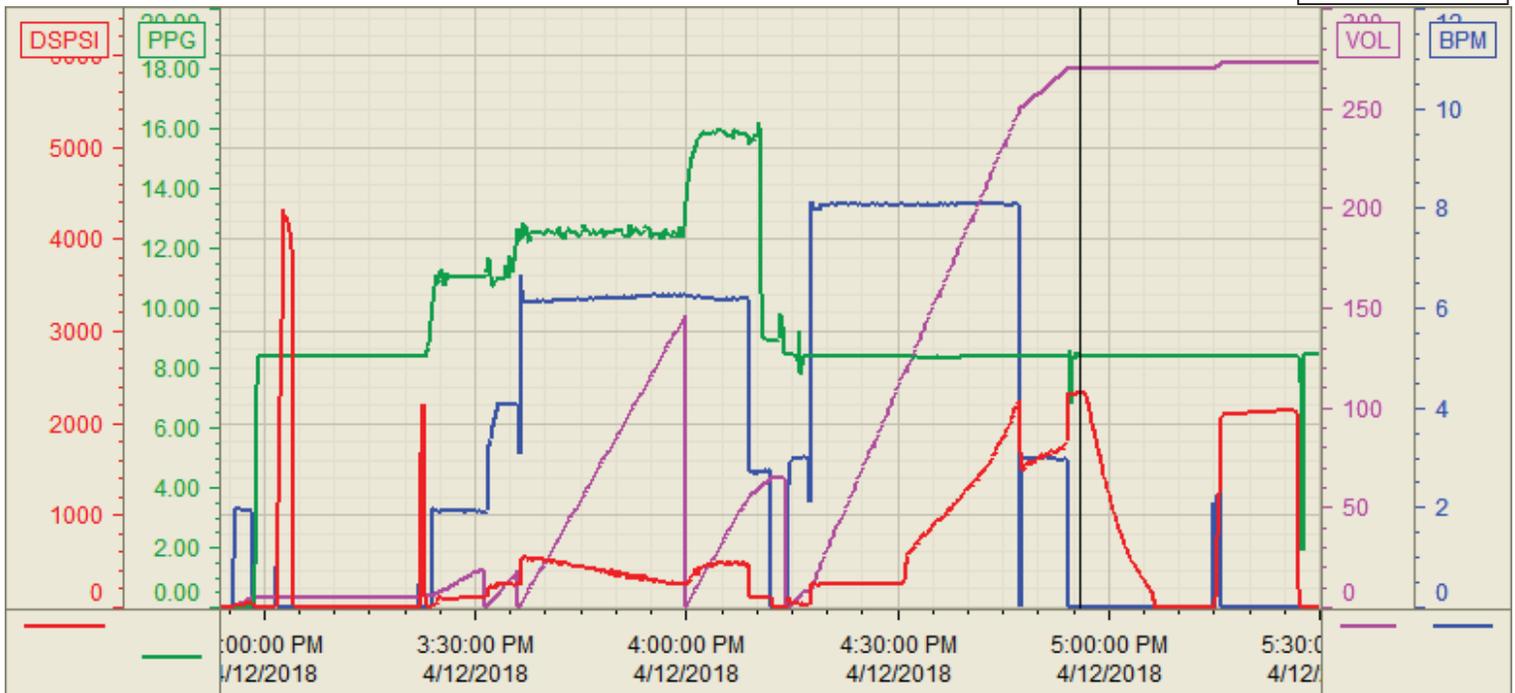


Seq No.	Start Date/Time	Category	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	4/12/18 0800	Mobilization	Callout	1					Crew called out requested on location for 1300
2	4/12/18 1230	Mobilization	Arrive on Location	48					Crew arrived on location at 1230
3	4/12/18 1240	Operational	Safety Meeting	53					Safety meeting
4	4/12/18 1250	Operational	Spot Units	49					Crew spotted all equipment
5	4/12/18 1300	Operational	Rig Up	50					Rigged up all equipment
6	4/12/18 1430	Operational	Safety Meeting	53					Safety meeting
7	4/12/18 1456	Operational	Prime Up	52	8.34	2	5	50	Fill lines with 5 bbls fresh water
8	4/12/18 1502	Operational	Pressure Test	54					Pressure test ines to 4000 psi
9	4/12/18 1522	Operational	Pump Spacer	56	8.34	2	20	100	Pump 20 bbls water spacer
10	4/12/18 1531	Operational	Pump Spacer	56	11	4	20	200	Pump 20 bbls spacer at 11 ppg
11	4/12/18 1536	Operational	Pump Lead Cement	58	12.5	6	140	500	Pump 140 bbls lead cement at 12.5 ppg (380 sks, 2.07 Y, 11.83 gal/sk)
12	4/12/18 1600	Operational	Pump Tail Cement	60	15.8	6	58	300	Pump 58 bbls tail cement at 15.8 ppg (280 sks, 1.16 Y, 4.98 gal/sk)
13	4/12/18 1612	Operational	Other (See comments)	76					Shutdown
14	4/12/18 1613	Operational	Drop Top Plug	63					Drop top plug
15	4/12/18 1614	Operational	Pump Displacement	64	8.34	8	240	1000	Pump 263 bbls water displacement
16	4/12/18 1646	Operational	Spacer Back to Surface	65					Spacer to surface at 230bbls away, 20 bbls spacer to surface
17	4/12/18 1648	Operational	Other (See comments)	76	8.34	3	23	1700	Slow rate to 3 bpm at 240 bbls away
18	4/12/18 1651	Operational	Cement Back to Surface	66					Cement back to surface at 250 bbls away, 13 bbls cement to surface
19	4/12/18 1654	Operational	Land Plug	67					Land plug at 1800 psi, took to 2300 psi
20	4/12/18 1657	Operational	Check Floats	68					Check floats, floats holding, 2 bbls back
21	4/12/18 1616	Operational	Other (See comments)	76					Pressure up to 2000 psi for 10 min casing test
22	4/12/18 1630	Operational	Safety Meeting	53					Safety meeting
23	4/12/18 1645	Operational	Rig Down	73					Rigged down all equipment
24	4/12/18 1730	Mobilization	Leave Location	74					Crew departed location

Customer: BBC  
 Well Number: 5-62-26-3340C  
 Lease Info: Anschutz State



Print Date/Time  
 4/12/2018 5:41:16 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)	2323.4	4/12/2018 4:55:52 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	8.43	4/12/2018 4:55:46 PM	Cementer\DENSITY_ACTUAL_RATE
3	Down Hole Total (BBLs)	270.0 i.	4/12/2018 4:55:49 PM i.	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined rate (BPM)	0.00	4/12/2018 4:55:52 PM	Cementer\Flow_Combined
5				

Source: Control1 5:41:11 PM