



Bill Barrett Corporation

Liner Post Job Report

Anschutz State 5-62-26-4956C

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

Quote #:

| Execution #:





Bill Barrett Corporation

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

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

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@bjsservices.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

Cementing Treatment



Start Date 4/29/18 **Well** 5-62-26-4956C ANSCHUTZ STATE
End Date 4/29/18 **County** WELD
Client HighPoint Operating Corporation **State/Province** CO
Service Supervisor Andrew Hyde **API** 05-123-46080
District Cheyenne, WY **Rig** Cade 24
Type of Job Liner

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	6.37	7.00	23.00	6,673.00		
Open Hole	6.13			16,533.00		10.00
Drill Pipe	3.34	4.00	14.00	5,730.00		
Liner	4.00	4.50	11.60	16,533.00		

Shoe Length (ft): 62

HARDWARE

Bottom Plug Used? No **Landing Collar Depth (ft)** 16,471
Top Plug Used? Yes **Job Pumped Through** Iron/Hose
Top Plug Provided By Weatherford **Top Connection Thread** LTC
Centralizers Used No **Top Connection Size** 4in

Cementing Treatment



CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	YP Mud In	3
Circulation Prior to Job	Yes	YP Mud Out	3
Lost Circulation Prior to Cement Job	No	Solids Present at End of Circulation	No
Mud Density In (ppg)	10	10 sec SGS	1
Mud Density Out (ppg)	10	10 min SGS	4
PV Mud In	4	Flare Prior to/during the Cement Job	No
PV Mud Out	4	Gas Present	No

TEMPERATURE

Ambient Temperature (66°F)

Slurry Cement Temperature (70°F)

Mix Water Temperature (65°F)

Flow Line Temperature (75°F)

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			4,735.00				20.0000
Tail Slurry	BJCem L50.6.01C	13.5000	1.5930	7.95	5,750.00	10,785.00	710	1,128.0000	200.8000
Displacement 1	Retarded Water	8.3300			15,206.00			0.0000	20.0000
Displacement 2	Water + Chems	8.3300			6,589.00	0.00	0	0.0000	140.0000
Displacement 2	Retarded Water	8.3300			13,577.00	0.00	0	0.0000	20.0000
Displacement Final	Water	8.3300			0.00			0.0000	69.4000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.4000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	0.6000	PPB
Tail Slurry	BJCem L50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem L50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem L50.6.01C	GELLANT WATER, GW-86	0.1000	BWOB
Tail Slurry	BJCem L50.6.01C	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem L50.6.01C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, EC-2	3.0000	BWOB
Tail Slurry	BJCem L50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
Tail Slurry	BJCem L50.6.01C	RETARDER, SR-20	0.2000	BWOB
Displacement 1	Retarded Water	CLAY STABILIZER ResCare CS	0.0800	GPB
Displacement 1	Retarded Water	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement 1	Retarded Water	RETARDER, R-8L	0.5000	GPB
Displacement 2	Water + Chems	CLAY STABILIZER ResCare CS	0.0800	GPB
Displacement 2	Water + Chems	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement 2	Retarded Water	RETARDER, R-8L	0.5000	GPB

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	20
Calculated Displacement Volume (bbls)	204	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	204	Amount of Spacer to Surface	20
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	No	Amount Bled Back After Job	1
Bump Plug Pressure (psi)	1900	Total Volume Pumped (bbls)	584
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement returns During Job	Yes	Lost Circulation During Cement Job	No

EVENT LOG

Service Line Cementing

Client HighPoint Operating Corporation
 District Cheyenne, WY



Quotes: QUO-10881-S6D6T0
 Plans: ORD-06256-Z7S3Y5
 Executions: EXC-06256-Z7S3Y502

Seq.	Well	Job Type	BJ Sup.	Start Dt./Time	End Dt./Time	Category	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 5:30	04/29/2018 5:31	Mobilization	Callout					BJ crew gets called out and requested on location at 11:00
2	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 7:30	04/29/2018 7:59	Operational	Safety Meeting					BJ crew talks about the hazards of driving to location
3	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 8:00	04/29/2018 8:01	Operational	Other (See comment)					Depart yard
4	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 10:00	04/29/2018 10:01	Mobilization	Arrive on Location					Arrive on location
5	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 10:05	04/29/2018 10:15	Operational	Safety Meeting					BJ crew talks about the hazards of spotting in equipment and rigging up
6	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 10:20	04/29/2018 10:55	Operational	Rig Up					Rig up
7	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 10:57	04/29/2018 11:20	Operational	Safety Meeting					BJ and rig crew talk about the hazards of pumping the job
8	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 11:28	04/29/2018 11:30	Operational	Prime Up	8.3300	2.00	2.00	500.00	Pump 3 bbls of water to fill lines
9	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 11:33	04/29/2018 11:34	Operational	Pressure Test					Pressure test pumps and lines to 5000 psi
10	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 11:35	04/29/2018 11:40	Operational	Pump Spacer	8.3300	3.00	10.00	550.00	Pump 10 bbls of water spacer
11	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 11:40	04/29/2018 11:46	Operational	Pump Spacer	11.0000	3.00	20.00	800.00	Pump 20 bbls of spacer at 11 ppg
12	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 11:46	04/29/2018 12:25	Operational	Pumping Cement	13.5000	5.50	200.00	1,100.00	Mix up and pump 710 sks of BJ Cem L50.6.01C at 13.5 ppg, yield 1.59, 7.95 gal/sk, 200 bbls
13	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 12:26	04/29/2018 12:27	Operational	Other (See comment)					Shutdown to line out manifold to wash pumps and lines
14	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 12:28	04/29/2018 12:31	Operational	Clean Pumps and Lines					Wash pumps and lines to the pit

EVENT LOG

Service Line Cementing

Client HighPoint Operating Corporation
 District Cheyenne, WY

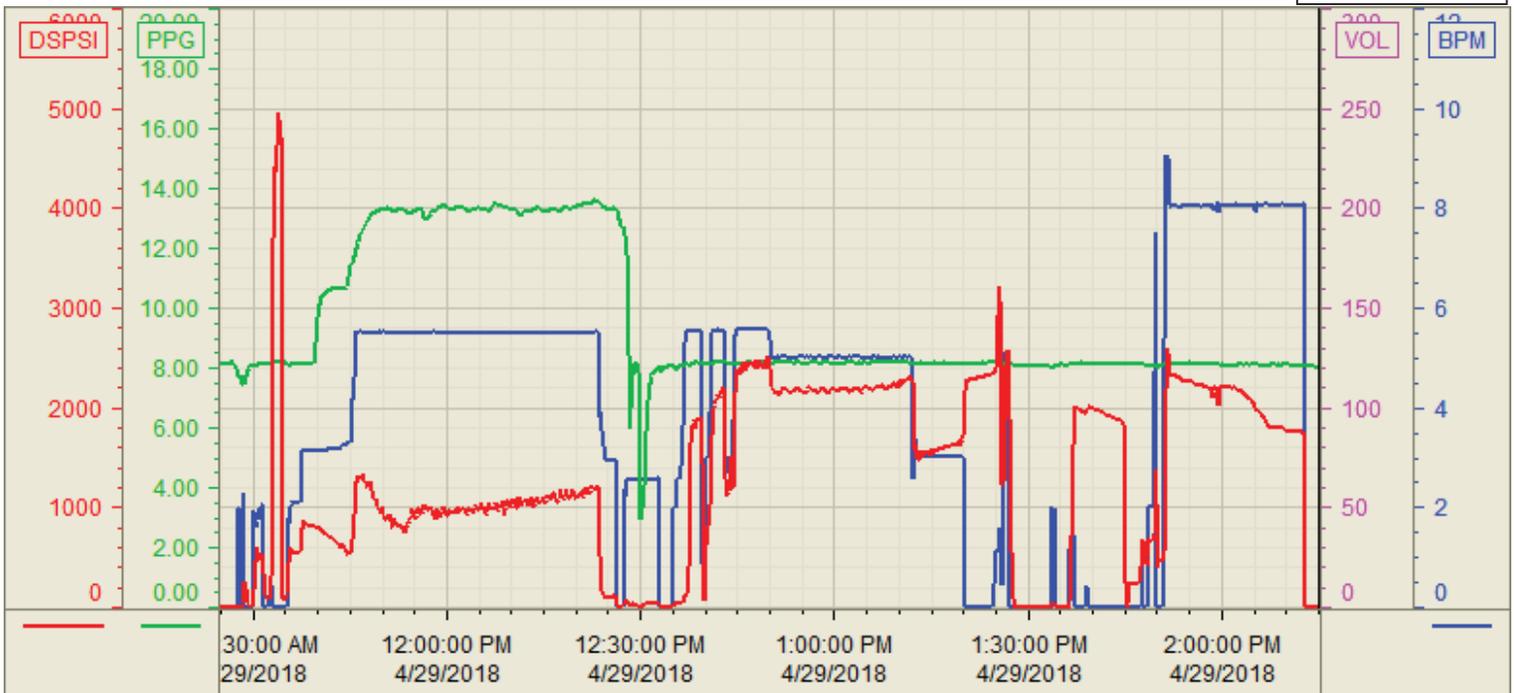


15	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 12:32	04/29/2018 12:33	Operational	Drop Top Plug						Tool hand dropped plug
16	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 12:35	04/29/2018 13:20	Operational	Pump Displacement	8.3300	5.50	174.00	2,500.00		Pump 204 bbls of displacement
17	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 12:43	04/29/2018 12:46	Operational	Other (See comment)	8.3300	3.00	10.00	1,100.00		Slow to 3 bpm to watch plug go thought liner tool
18	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:12	04/29/2018 13:19	Operational	Other (See comment)	8.3300	3.00	20.00	2,500.00		Slow rate the last 20 bbls to 3 bpm to bump plug
19	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:20	04/29/2018 13:23	Operational	Land Plug						Bump plug at 1900 psi, took it up to 2400 psi
20	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:24	04/29/2018 13:25	Operational	Other (See comment)						Pressure up to 3400 psi to burst plug
21	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:26	04/29/2018 13:27	Operational	Other (See comment)	8.3300	5.00	5.00	2,500.00		Pump 5 bbls of water
22	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:28	04/29/2018 13:29	Operational	Check Floats						Check floats got 1 bbl back
23	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:36	04/29/2018 13:42	Operational	Other (See comment)						Pressure test backside to 2000 psi for 5 mins
24	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:48	04/29/2018 13:48	Operational	Other (See comment)						Pressure up to 700 psi while the rig stings out
25	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 13:49	04/29/2018 14:12	Operational	Pump Displacement	8.3300	8.00	160.00	2,200.00		Pump 160 bbls to clean out above the liner
26	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 14:13	04/29/2018 14:14	Operational	Other (See comment)						Shutdown
27	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 14:20	04/29/2018 14:30	Operational	Safety Meeting						BJ crew talks about the hazards of rigging down
28	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 14:35	04/29/2018 15:00	Operational	Rig Down						Rig down
29	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 15:30	04/29/2018 15:31	Mobilization	Leave Location						Depart location
30	5-62-26-4956C ANSCHUTZ STATE	Liner	Andrew Hyde	04/29/2018 15:32	04/29/2018 15:33	Operational	Other (See comment)						Estimated top of cement at 5726 ft, got 20 bbls of cement to surface

Customer: Bill Barrett
 Well Number: 5-62-26-4956C
 Lease Info: Anschutz state



Print Date/Time
 4/29/2018 2:24:52 PM



Name	Y value	X value/time stamp	Tag name Y
1 DS - Press(Psi)		4/29/2018 2:15:00 PM i.	CementerDS_DISCHARGE_PRESS_DIAL
2 DH - Density (PPG)	8.02	4/29/2018 2:15:03 PM	CementerDENSITY2_ACTUAL_RATE
3 Combined rate (BPM)	0.00	4/29/2018 2:15:03 PM	CementerFlow_Combined
4			
5			

Source: Control1 2:24:46 PM