POST JOB REPORT

Bill Barrett Corporation

Intermediate Post Job Report

Anschutz-Williams 5-61-27-4956B

S:27 T:5N R:61W Weld CO

Quote #: 03720 | Execution #: 01958

Bill Barrett Corporation

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

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

Dear Mr. Matt 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

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	10/20/2017	**Well**	ANSCHUTZ-WILLIAMS 5-61-27-4956B
End Date	10/23/2017	**County**	WELD
Client	BILL BARRETT CORPORATION	**State/Province**	CO
Client Field Rep	Robert	**API**	05-123-45729
Service Supervisor	Chad Johnson		
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			6,434.00	6,434.00	18.00	
Casing	6.28	7.00	23.00	6,413.00	6,413.00		J-55
Previous Casing	8.92	9.63	36.00	843.00	843.00		

Shoe Length (ft): 49

HARDWARE

Bottom Plug Used?	No
Top Plug Used?	Yes
Top Plug Provided By	BBC
Top Plug Size	7.0
Centralizers Used	No
Landing Collar Depth (ft)	

Cementing Treatment

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	**Solids Present at End of Circulation**	No
Circulation Prior to Job	No	**10 sec SGS**	6
Lost Circulation Prior to Cement Job	No	**10 min SGS**	15
Mud Density In (ppg)	10.0	**30 min SGS**	
Mud Density Out (ppg)	10.0	**Flare Prior to/during the Cement Job**	No
PV Mud In	25	**Gas Present**	No
PV Mud Out	25		
YP Mud In	9		
YP Mud Out	9		

TEMPERATURE

Ambient Temperature (°F)	41	**Flow Line Temperature (°F)**	75
Mix Water Temperature (°F)	70		

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	CD Spacer	11.0000					20.0000
Lead Slurry	I100-X2	12.5000	2.0735	11.83	384	795.0000	141.5000
Tail Slurry	I100-X1	15.8000	1.1550	4.98	223	258.0000	45.8000
Displacement Final	Water	8.3300				0.0000	243.3000

Cementing Treatment

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	CD Spacer	AR-20	1.02	PPB
Spacer / Pre Flush / Flush	CD Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.60	PPB
Spacer / Pre Flush / Flush	CD Spacer	ASF-20	0.50	GPB
Spacer / Pre Flush / Flush	CD Spacer	GELLANT WATER, GW-86	0.80	PPB
Lead Slurry	I100-X2	CEMENT, ASTM TYPE III	100.00	PCT
Lead Slurry	I100-X2	BONDING AGENT, BA-60	0.30	BWOB
Lead Slurry	I100-X2	FP-25, Dry Foam Preventer (BJS Only)	0.30	BWOB
Lead Slurry	I100-X2	AR-20	0.40	BWOB
Lead Slurry	I100-X2	FLUID LOSS, FL-24, (BJS Only)	0.30	BWOB
Tail Slurry	I100-X1	R-6 LOW TEMP RETARDER 50 LB BAG BJS	0.10	BWOB
Tail Slurry	I100-X1	FLUID LOSS, FL-24, (BJS Only)	0.20	BWOB
Tail Slurry	I100-X1	DISPERSANT, CD-31	0.20	BWOB
Tail Slurry	I100-X1	CEMENT, CLASS G	100.00	PCT
Tail Slurry	I100-X1	FP-25, Dry Foam Preventer (BJS Only)	0.30	BWOB
Tail Slurry	I100-X1	BONDING AGENT, BA-60	0.20	BWOB

Cementing Treatment

TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
CD Spacer	5.00	20.00	400
I100-X2	5.00	141.50	400
I100-X1	5.00	45.80	300
Water	5.00	243.30	2000

	Min	Max	Avg
Pressure (psi)	300	2000	600
Rate (bpm)	4	8	6

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	**Amount of Cement Returned/Reversed**	32
Calculated Displacement Volume (bbls)	242	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	242	**Amount of Spacer to Surface**	20
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	
Bump Plug	yes	**Amount Bled Back After Job**	2.5
Bump Plug Pressure (psi)	2000	**Total Volume Pumped (bbls)**	451
Were Returned Planned at Surface	yes	**Top Out Cement Spotted**	No
Cement returns During Job	yes	**Lost Circulation During Cement Job**	No

CEMENT PLUG

Bottom of Cement Plug?	No	**Wiper Balls Used?**	No
		Plug Catcher	No

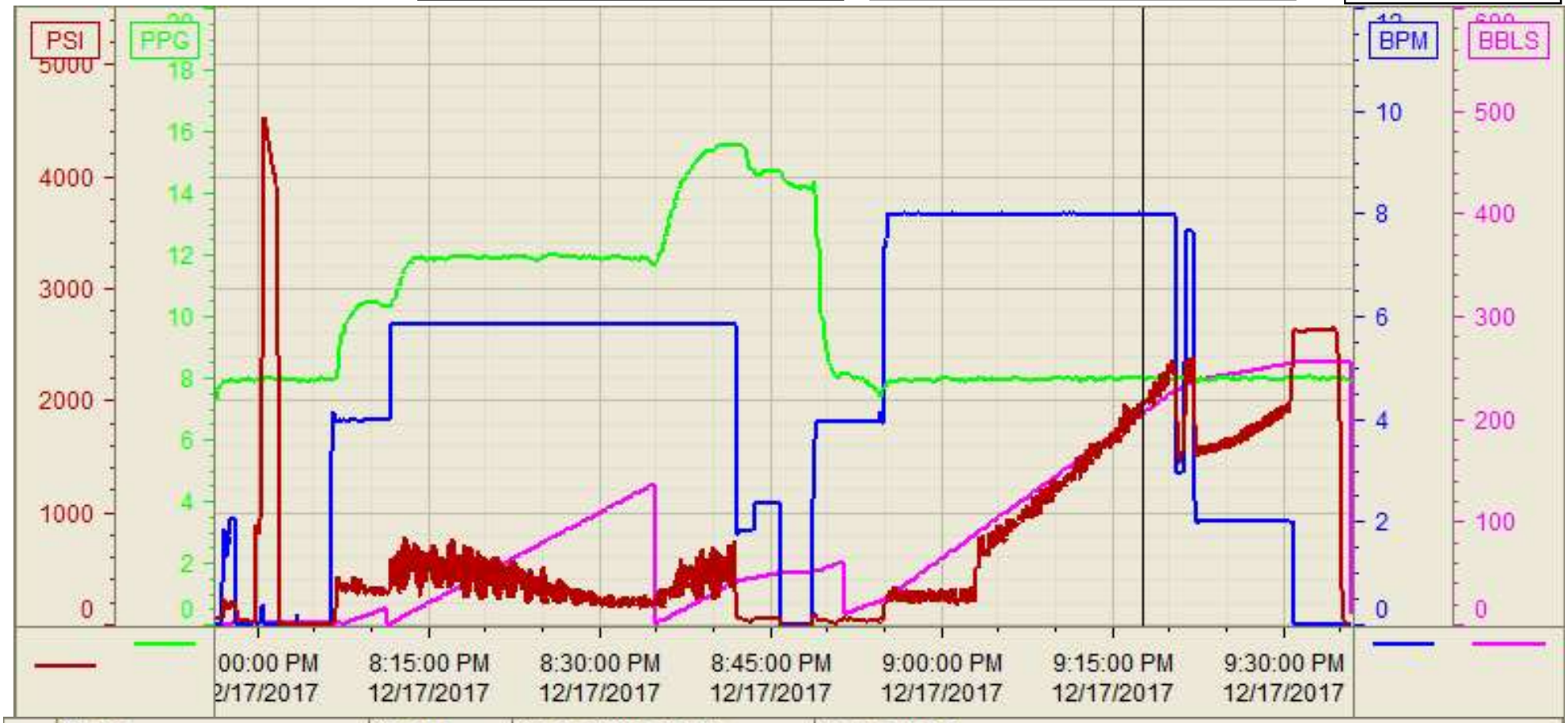
Customer Name Bill Barrett Corporation
Well Name Anschutz-Williams 5-61-27-4956B
Job Type Intermediate

District Cheyenne
Supervisor Chad 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	12/17/2017 11:00	Mobilization	Callout	1					Crew called out for on location 16:00
2	12/17/2017 14:30	Mobilization	Arrive on Location	48					Crew arrived on location
3	12/17/2017 14:45	Operational	Safety Meeting	53					Pre rig up safety meeting
4	12/17/2017 15:00	Operational	Spot Units	49					Crew spotted all equipment.
5	12/17/2017 15:15	Operational	Rig Up	50					Crew rigged up pump and iron.
6	12/17/2017 16:00	StandBy	Customer	85					Crew waiting on customer to finish running casing and circulate well.
7	12/17/2017 19:30	Operational	Safety Meeting	53					Pre job safety meeting
8	12/17/2017 20:03	Operational	Prime Up	52	8.34	2	3	60	Fill lines with 3 bbls of water
9	12/17/2017 20:06	Operational	Pressure Test	54					Pressure test pumps and iron to 5000 psi.
10	12/17/2017 20:13	Operational	Pump Spacer	56	11	4	20	400	Pump 20 bbls of spacer at 11 ppg.
11	12/17/2017 20:18	Operational	Pump Lead Cement	58	12.5	6	141	300	Pump 141 bbls of lead cement at 12.5 ppg. (384 sks 2.07 yld 11.83 gps)
12	12/17/2017 20:42	Operational	Pump Tail Cement	60	15.8	6	45	300	Pump 45 bbls of tail cement at 15.8 ppg. (223 sks 1.15 yld 4.98 gps)
13	12/17/2017 20:53	Operational	Other (See comments)	76					Shut down
14	12/17/2017 20:54	Operational	Drop Top Plug	63					Dropped top plug.
15	12/17/2017 20:55	Operational	Pump Displacement	64	8.34	8	220	800	Pumped 220 bbls of water displacement
16	12/17/2017 21:15	Operational	Spacer Back to Surface	65					Spacer back to surface at 190 bbls away, 20 bbls spacer to surfcace
17	12/17/2017 21:18	Operational	Cement Back to Surface	66					Cement back to surface at 210 bbls away, 32 bbls cement to surface
18	12/17/2017 21:29	Operational	Other (See comments)	76	8.34	2	22	1600	Slow rate to 2 bpm for last 22 bbls displacement
19	12/17/2017 21:38	Operational	Land Plug	67				2000	Land plug at 242 bbls away, landed at 2000 psi took to 2500 psi
20	12/17/2017 21:41	Operational	Check Floats	68					Check floats, floats holding 2.5 bbls back
21	12/17/2017 21:55	Operational	Safety Meeting	53					Pre rig down safety meeting
22	12/17/2017 22:10	Operational	Rig Down	73					Rigged down all equipment
23	12/17/2017 23:45	Mobilization	Leave Location	74					Crew departed location

Customer: Bill Barrett
Well Number: 5-61-27-4956B
Lease Info: Anschutz Williams

Print Date/Time
12/17/2017 9:56:30 PM



	Name	Y value	X value/time stamp	Tag name Y
1	PS - Press (PSI)	1943.2	12/17/2017 9:17:36 PM	Cementer\PS_DISCHARGE_PRESS_DIAL
2	DH - Density (PPG)	8.03	12/17/2017 9:17:38 PM	Cementer\DENSITY2_ACTUAL_RATE
3	Combined Rate (BPM)	7.99 i.	12/17/2017 9:17:37 PM i.	Cementer\Flow_Combined
4	Down Hole Total (BBLS)	204.9	12/17/2017 9:17:38 PM	Cementer\DOWNHOLE_FLOW_TOTAL
5				

Source: Control1 9:56:25 PM