POST JOB REPORT

Bill Barrett Corporation

Intermediate Post Job Report

Anschutz Equus Farms 4-62-28-1609C

S:28 T:4N R:62W Weld CO

Quote #: 05911 | Execution #: 03239

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@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	1/30/2018	**Well**	ANSCHUTZ EQUUS FARMS 4-62-28-1609C
End Date	1/31/2018	**County**	WELD
Client	BILL BARRETT CORPORATION	**State/Province**	CO
Client Field Rep	Robert	**API**	05-123-42740
Service Supervisor	C. Johnson	**Type of Job**	Intermediate
District	Cheyenne, WY		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade
Open Hole	8.75			6,633.00	6,600.00	18.00	
Casing	6.37	7.00	23.00	6,613.00	6,600.00		J-55
Previous Casing	8.92	9.63	36.00	878.00	878.00		

Shoe Length (ft): 49

HARDWARE

Bottom Plug Used?	No	**Top Plug Size**	7.0
Top Plug Used?	Yes	**Centralizers Used**	No
Top Plug Provided By	BBC	**Landing Collar Depth (ft)**	6,564

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	**Mud Density Out (ppg)**	10.3
Circulation Prior to Job	Yes	**Solids Present at End of Circulation**	No
Lost Circulation Prior to Cement Job	No	**Flare Prior to/during the Cement Job**	No
Mud Density In (ppg)	10.3	**Gas Present**	No

TEMPERATURE

Ambient Temperature (°F)	33	**Mix Water Temperature (°F)**	75

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	377	778.0000	138.5000
Tail Slurry	I100-X1	15.8000	1.1550	4.98	258	294.0000	52.2000
Displacement Final	Water	8.3300				0.0000	258.2000

Cementing Treatment

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	CD Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.6000	PPB
Spacer / Pre Flush / Flush	CD Spacer	AR-20	1.0200	PPB
Spacer / Pre Flush / Flush	CD Spacer	GELLANT WATER, GW-86	0.8000	PPB
Spacer / Pre Flush / Flush	CD Spacer	Spacer Surfactant, SS-247	0.5000	GPB
Lead Slurry	I100-X2	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	I100-X2	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	I100-X2	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	I100-X2	AR-20	0.4000	BWOB
Lead Slurry	I100-X2	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	I100-X1	DISPERSANT, CD-31	0.2000	BWOB
Tail Slurry	I100-X1	CEMENT, CLASS G	100.0000	PCT
Tail Slurry	I100-X1	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	I100-X1	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	I100-X1	R-6 LOW TEMP RETARDER 50 LB BAG BJS	0.1000	BWOB
Tail Slurry	I100-X1	FLUID LOSS, FL-24	0.2000	BWOB

TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
CD Spacer	6.00	20.00	400
I100-X2	7.00	138.50	600
I100-X1	7.00	52.20	700
Water	8.00	258.20	1200

	Min	Max	Avg
Pressure (psi)	200	2600	700
Rate (bpm)	2	8	6

Cementing Treatment

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	**Amount of Cement Returned/Reversed**	18
Calculated Displacement Volume (bbls)	258	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	258	**Amount of Spacer to Surface**	20
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	0
Bump Plug	No	**Amount Bled Back After Job**	2.5 bbls
Bump Plug Pressure (psi)	2600	**Total Volume Pumped (bbls)**	490
Were Returns Planned at Surface	No	**Top Out Cement Spotted**	No
Cement returns During Job	Yes	**Lost Circulation During Cement Job**	No

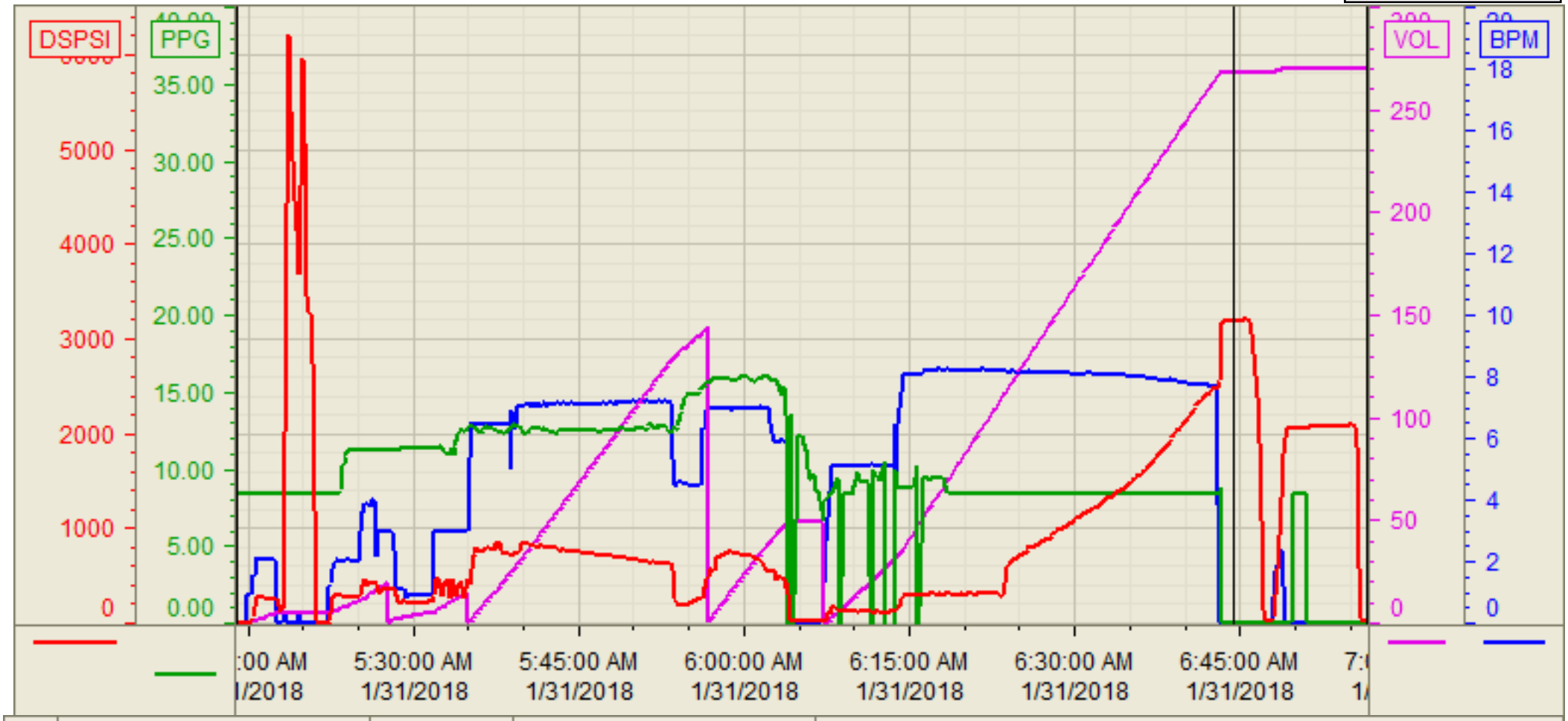
Customer Name BBC
Well Name Anschutz Equus Farms 4-62-28-1609C
Job Type Intermediate

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	1/30/18 1530	Mobilization	Callout	1					Crew called out requested on ocation at 2130
2	1/30/18 2000	Mobilization	Arrive on Location	48					Crew arrived on location at 2000
3	1/30/18 2015	Operational	Safety Meeting	53					Safety meeting
4	1/30/18 2030	Operational	Spot Units	49					Spotted all equipment
5	1/30/18 2045	Operational	Rig Up	50					Rigged up all equipment
6	1/30/18 2130	StandBy	Customer	85					Waiting on rig to finish running casingand circulate well
7	1/31/18 0445	Operational	Safety Meeting	53					Safety meeting
8	1/31/18 0514	Operational	Prime Up	52	8.34	2	5	200	Fill lines with 5 bbls fresh water
9	1/31/18 0518	Operational	Pressure Test	54					Pressure test lines to 5000 psi
10	1/31/18 0522	Operational	Pump Spacer	56	8.34	4	15	400	Pump 15 bbls water spacer
11	.1/31/18 0527	Operational	Pump Spacer	56	11	6	20	400	Pump 20 bbls spacer @ 11 ppg
12	1/31/18 0538	Operational	Pump Lead Cement	58	12.5	7	139	700	Pump 139bblss lead cement @ 12.5 ppg (377sks, 2.07 Y, 11.83 gal/sk)
13	1/31/18 0556	Operational	Pump Tail Cement	60	15.8	7	54	600	Pump 54 bbls tail cement @15.8 ppg (258 sks, 1.16 Y, 4.98 gal/sk)
14	1/31/18 0604	Operational	Other (See comments)	76					Shutdown
15	1/31/18 0606	Operational	Drop Top Plug	63					Drop top plug
16	1/31/18 0607	Operational	Pump Displacement	64	8.34	8	240	1500	Pump 258 bbls water displacement
17	1/31/18 0638	Operational	Spacer Back to Surface	65					Spacer back to surface at 220 bbls away, 20 bbls spacer back to surface
18	1/31/18 0640	Operational	Other (See comments)	76	8.34	2	18	2300	Slow rate to 2 bpm at 240 bbls away
19	1/31/18 0642	Operational	Cement Back to Surface	66					Cement back to surface at 240 bbls away, 18 bbls cement to surface
20	1/31/18 0644	Operational	Land Plug	67				2600	Land plug at 2600 psi took to 3200 psi
21	1/31/18 0645	Operational	Check Floats	68					Check floats, floats holding, bbls back
22	1/31/18 0646	Operational	Other (See comments)	76	8.34			2000	Casing test 2000 psi for 15 mins
23	1/31/18 0651	Operational	Other (See comments)	76					Release pressure
24	1/31/18 0700	Operational	Safety Meeting	53					Safety meeting
25	1/31/18 0715	Operational	Rig Down	73					rigged down all equipment
26	1/31/18 0800	Mobilization	Leave Location	74					Crew departed location

Customer: BBC
Well Number: 4-62-28-1609C
Lease Info: Anschutz Equus Farms

Print Date/Time
1/31/2018 7:08:16 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)	3191.0	1/31/2018 6:44:24 AM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	0.0	1/31/2018 6:44:22 AM	Cementer\DENSITY_ACTUAL_RATE
3	Down Hole Total (BBLS)	268.3 i.	1/31/2018 6:44:24 AM i.	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined rate (BPM)	0.00 i.	1/31/2018 6:44:24 AM i.	Cementer\Flow_Combined
5				

Source: Control1 7:08:12 AM