



HighPoint Operating Corporation

Anschutz Equus Farms 5-61-35-6457B

API # 05-123-45957

Production

October 21, 2019

Quote #: QUO-37930-Y4W6F4

Execution #: EXC-21968-Q5R8Y802



HighPoint Operating Corporation

Attention: Mr. Matthew Schwartz | (303) 312-8142 | mschwartz@hpres.com

HighPoint Operating 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,
Jason Creel
Field Engineer I | (307) 365-9038 | jason.creel@bjservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007
Phone: (307) 459-6487

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

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Edgar Rodriguez	RIG	Cade 23
DISTRICT	Cheyenne, WY	COUNTY	WELD
SERVICE	Cementing	STATE / PROVINCE	CO

WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE
Open Hole	6.13	0.00	0.00	16,035.00	5,854.00	10.00	
Casing	4.00	4.50	11.60	16,031.00	5,854.00		P-110
Previous Casing	6.37	7.00	23.00	6,298.00	6,298.00		J-55

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	16,024.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	8500.00
Top Plug Size	4.500	Max Casing Pressure - Operated (psi)	2200.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	123.00	Job Pumped Through	No Manifold
Centralizers Type	Bow	Top Connection Thread	8RD
Landing Collar Depth (ft)	16,024	Top Connection Size	4.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	1
Circulation Prior to Job	Yes	YP Mud In	3
Circulation Time (min)	120.00	YP Mud Out	3
Circulation Rate (bpm)	5.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	700.00	10 sec SGS	1
Lost Circulation Prior to Cement Job	No	10 min SGS	2
Mud Density In (ppg)	8.90	30 min SGS	0
Mud Density Out (ppg)	8.90	Flare Prior to / during the Cement Job	No
PV Mud In	1	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	40.00	Slurry Cement Temperature (°F)	65.00
Mix Water Temperature (°F)	65.00		

Client: HighPoint Operating Corporation

Well: ANSCHUTZ EQUUS FARMS #5-61-35-6457B

Well API: 05-123-49224

Start Date: 10/20/2019

End Date: 10/21/2019



FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H ₂ O REQ (gals/sk)	PLN TOP FLD (ft)	LENGTH (ft)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Spacer / Pre Flush / Flush	Fresh Water	8.3300			1,470.00				40.0000
Tail Slurry	BJCem P50.6.01C	13.5000	1.5930	7.95	3,500.00	12,532.00	830	1323.0000	235.5000
Displacement 1	Retarded Water	8.3300			14,740.00			0.0000	20.0000
Displacement Final	Water + Chems	8.3300			0.00			0.0000	228.0000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Tail Slurry	BJCem P50.6.01C	BONDING AGENT, BA-90	3.0000	LBS/SK
Tail Slurry	BJCem P50.6.01C	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem P50.6.01C	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem P50.6.01C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.01C	IntegraCare EC-2	3.0000	BWOB
Tail Slurry	BJCem P50.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.01C	RETARDER, SR-20	0.2000	BWOB
Tail Slurry	BJCem P50.6.01C	IntegraGuard GW-86	0.1000	BWOB
Displacement Final	Water + Chems	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water + Chems	BIOCIDE, BIOC11139W	0.0210	GPB
Displacement Final	Water + Chems	CORROSION INHIBITORS, CI-27	0.2100	GPB

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	0.00
Calculated Displacement Vol (bbls)	248.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	248.00	Amt of Spacer to Surface	0.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	1.00
Bump Plug Pressure (psi)	2100.00	Total Volume Pumped (bbls)	248.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	None	Lost Circulation During Cement Job	No

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Well: ANSCHUTZ EQUUS FARMS #5-61-35-6457B

Well API: 05-123-49224

Start Date: 10/20/2019

End Date: 10/21/2019



BJ Cementing Event Log

Long String - Cheyenne, WY - Edgar Rodriguez

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	10/20/2019 18:00	Callout					CALLED OUT TO BE ON LOCATION @23:00
2	10/20/2019 20:30	Depart for Location					LEAVE FOR LOCATION
3	10/20/2019 22:30	Arrive on Location					ARRIVE ON LOCATION
4	10/20/2019 22:35	Other (See comment)					GET NUMBERS FROM CUSTOMER REP / RIG RUNNING CASING
5	10/20/2019 22:40	STEACS Briefing					STEACS BRIEFING
6	10/20/2019 22:45	Rig Up					RIG UP
7	10/20/2019 23:15	Rig					RIG WASHING DOWN LAST JOINT OF CASING
8	10/21/2019 00:10	Rig					RIG RIGGING DOWN CASING CREW
9	10/21/2019 00:35	STEACS Briefing					STEACS BRIEFING
10	10/21/2019 00:40	Spot Units					SPOT EQUIPMENT
11	10/21/2019 00:45	Rig					RIG CIRCULATING
12	10/21/2019 01:10	STEACS Briefing					JOB STEACS BRIEFING
13	10/21/2019 01:25	Rig					RIG CIRCULATING
14	10/21/2019 02:05	Rig Up					SWITCH LINES TO PUMP
15	10/21/2019 02:20	Other (See comment)	8.3000	3.00	3.00	500.00	LOAD LINES
16	10/21/2019 02:24	Pressure Test	8.3000	1.00	1.00	5100.00	TEST LINES
17	10/21/2019 02:27	Pump Spacer	8.3000	5.00	40.00	500.00	PUMPING FRESH WATER
18	10/21/2019 02:37	Pumping Cement	13.5000	5.00	235.50	800.00	PUMPING 830 SKS 50/50 CLASS G CEMENT / 13.5 LBS/GAL -- 1.59 CUFT/SK -- 7.95 GAL/SK / 2616' TOP OF CEMENT
19	10/21/2019 03:27	End Pumping					SHUTDOWN
20	10/21/2019 03:27	Wash Pumps and Lines					WASH PUMPS AND LINES
21	10/21/2019 03:33	Drop Top Plug					DROP TOP PLUG
22	10/21/2019 03:38	Pump Displacement	8.3300				PUMPING DISPLACEMENT / 1ST 20 BBLs WITH RETARDER
23	10/21/2019 03:39	Pump Displacement	8.3000	8.00	20.00	300.00	PUMPING DISPLACEMENT / REST OF DISPLACEMENT WITH BIOCID, CORROSION INHIBITOR, OXYGEN SCAVANGER
24	10/21/2019 03:41	Pump Displacement	8.3000	8.00	28.00	1500.00	DISPLACEMENT REACHED CEMENT

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Well Name / API: ANSCHUTZ EQUUS FARMS #5-61-35-6457B / 05-123-49224

Well 16035
MD:



Quote #: QUO-37930-Y4W6F4

Plan #: ORD-21968-Q5R8Y8

Execution #: EXC-21968-Q5R8Y802

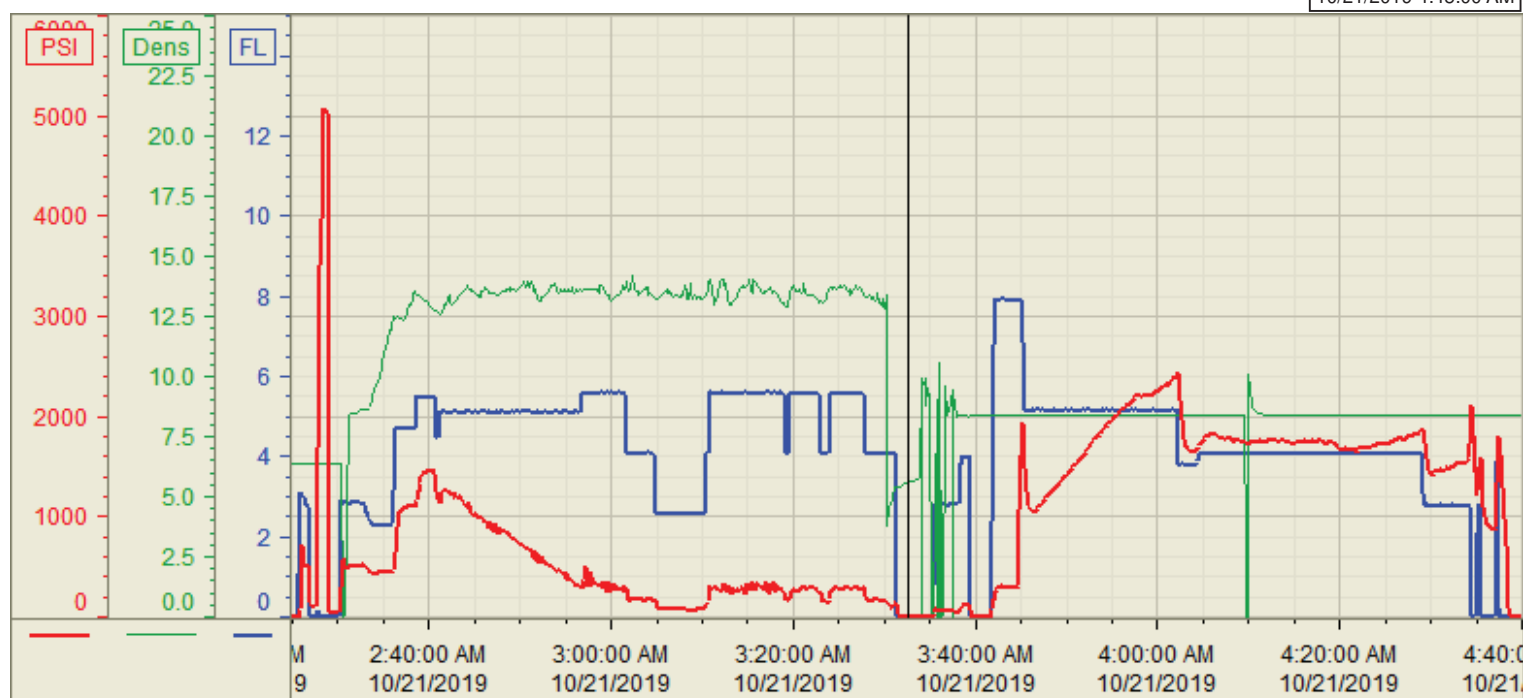
25	10/21/2019 03:42	Pump Displacement	8.3000	5.00	30.00	2300.00	SLOW RATE
26	10/21/2019 03:58	Pump Displacement	8.3000	4.00	118.00	2700.00	SLOW RATE
27	10/21/2019 04:25	Pump Displacement	8.3000	3.00	230.00	1900.00	SLOW RATE TO BUMP PLUG
28	10/21/2019 04:30	Land Plug	8.3000	3.00	248.00	2100.00	LANDED PLUG AT 1600 PSI AND TOOK UP TO 2100 PSI
29	10/21/2019 04:31	Other (See comment)	8.3000	4.00	1.50	2100.00	RUPTURE PLUG AT 2100 PSI AND STABILIZED AT 1690 PSI / PUMP 2 BBLs FOR WET SHOE
30	10/21/2019 04:33	Check Floats					FLOATS HOLDING / 1 BBL BACK
31	10/21/2019 04:35	End Pumping					END JOB / FULL CIRCULATION ENTIRE JOB
32	10/21/2019 04:35	STEACS Briefing					STEACS BRIEIGIN
33	10/21/2019 04:40	Rig Down					RIG DOWN
34	10/21/2019 05:00	Leave Location					LEAVE LOCATION

Customer: HighPoint Operating
Well Number: 5-61-35-6457B
Lease Info: Anschutz Equus Farms



Print Date/Time

10/21/2019 4:45:00 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	-1.3 i.	10/21/2019 3:32:33 AM i.	CementerDS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	5.60 i.	10/21/2019 3:32:33 AM i.	CementerDENSITY_ACTUAL_RATE
3	Combined pump rate	0.00 i.	10/21/2019 3:32:33 AM i.	CementerFlow_Combined
4				
5				

Source: Control1 4:44:59 AM