



HighPoint Operating Corporation

RSU Anschutz Fed 4-61-5-0909CN

API # 05-123-50078

Intermediate

September 10, 2019

Quote #: QUO-36364-R3P0M2

Execution #: EXC-21074-Y7T6T302



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	Gregory Black	RIG	Cade 23
CLIENT FIELD REPRESENTATIVE	Matt Schwartz	COUNTY	WELD
DISTRICT	Cheyenne, WY	STATE / PROVINCE	CO
SERVICE	Cementing		

WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lbs/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE
Previous Casing	8.92	9.63	36.00	840.00			
Open Hole	8.75	0.00	0.00			25.00	
Casing	6.37	7.00	23.00	6,382.00			J-55

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	6,381
Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	6,381.00
Top Plug Size	7.000	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	13.00	Top Connection Thread	LTC
Centralizers Type	Rigid	Top Connection Size	7

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	7
Circulation Prior to Job	Yes	YP Mud In	6
Circulation Time (min)	1.50	YP Mud Out	6
Circulation Rate (bpm)	8.80	Solids Present at End of Circulation	No
Circulation Volume (bbls)	747.00	10 sec SGS	1.00
Lost Circulation Prior to Cement Job	No	10 min SGS	4.00
Mud Density In (ppg)	10.00	30 min SGS	4.00
Mud Density Out (ppg)	10.00	Flare Prior to / during the Cement Job	No
PV Mud In	7	Gas Present	No

Client: HighPoint Operating Corporation

Well: RSU ANSCHUTZ FED #4-61-5-0909CN

Well API: 05-123-50078

Start Date: 9/9/2019

End Date: 9/10/2019

Field Ticket #: FT-21074-Y7T6T30201-1777885501



TEMPERATURE

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

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			0.00				40.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0726	11.83	0.00	5,365.00	480	995.0000	177.2000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1560	4.98	5,365.00	1,000.00	175	203.0000	36.0000
Displacement Final	Water	8.3300			0.00			0.0000	249.6000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Lead Slurry	BJCem I100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	FLUID LOSS, FL-24	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	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem I100.6.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	RETARDER, R-6	0.2000	BWOB

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	2.00
Calculated Displacement Vol (bbls)	249.60	Method Used to Verify Returns	Flowmeter
Actual Displacement Vol (bbls)	249.60	Amt of Spacer to Surface	40.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	2.00
Bump Plug Pressure (psi)	2,021.00	Total Volume Pumped (bbls)	503.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

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BJ Cementing Event Log

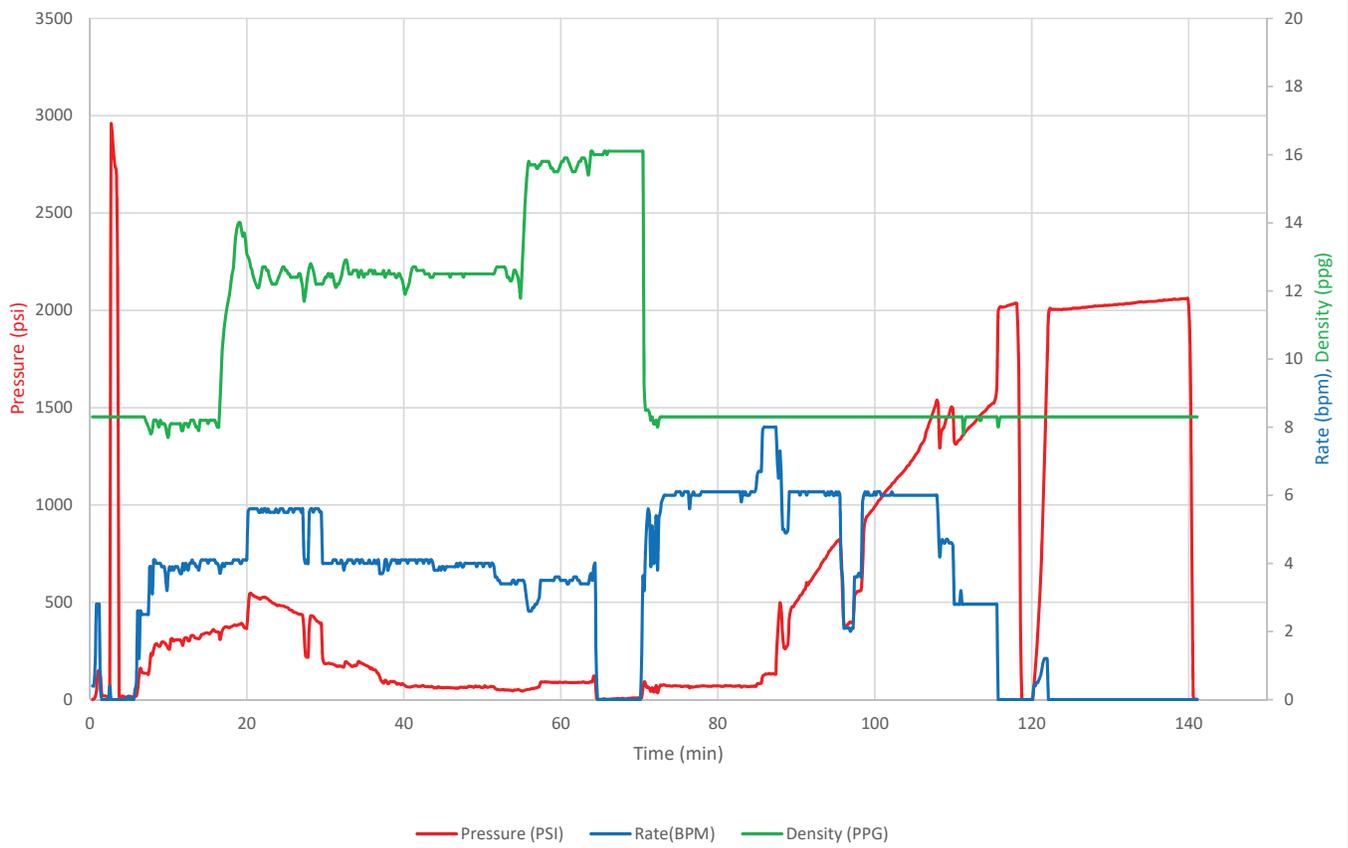
Intermediate - Cheyenne, WY - Gregory Black

SEQ	START DATE / TIME	EVENT	EQUIPMENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	09/09/2019 17:00	Callout						called out for a loc time of 23:00
2	09/09/2019 17:00	Depart for Location						crew leaves for location after steacs
3	09/09/2019 22:50	Arrive on Location						crew arrives
4	09/09/2019 23:00	STEACS Briefing						rig up safety meeting
5	09/09/2019 23:05	Rig Up						crew riges up ground iron
6	09/10/2019 00:30	STEACS Briefing						safety meeting and job procedure with rig crew and company man
7	09/10/2019 00:48	Rig Up						rig up swedge and get pump ready
8	09/10/2019 00:51	Prime Up		8.3400	2.80	2.00	250.00	load lines for pressure test
9	09/10/2019 00:53	Pressure Test		8.3400				pressure test to 2972psi. lined out at 2730psi.
10	09/10/2019 00:56	Pump Spacer		8.3400	4.20	40.00	250.00	pumped dyed water spacer
11	09/10/2019 01:07	Pump Lead Cement		12.5000	5.60	177.00	500.00	yield:2.07; Mix water:11.83
12	09/10/2019 01:47	Pump Tail Cement		15.8000	3.00	36.00	90.00	Yield:1.15; Mix water:4.98
13	09/10/2019 01:55	Other (See comment)						shutdown to drop top plug and get pump ready to washup and displace
14	09/10/2019 01:59	Drop Top Plug						dropped top plug
15	09/10/2019 02:01	Pump Displacement		8.3400		229.60	400.00	pump displacement
16	09/10/2019 02:40	Spacer Back-to-Surface		8.3400				spacer back at away
17	09/10/2019 02:40	Cement Back-to-Surface		8.3400				2 bbls of cement to surface
18	09/10/2019	Pump		8.3400	3.00	20.00	1510.00	slow rate to 2.8 bpm to bump



	02:40	Displacement						plug
19	09/10/2019 02:47	Land Plug						final circulating pressure:1558 psi ; took to:2021 psi held for 3 minutes
20	09/10/2019 02:47	Other (See comment)						2 bbls back
21	09/10/2019 02:53	Pressure Test						15 minute casing test started at 2010 psi; ended 2059 psi
22	09/10/2019 03:10	Other (See comment)						bleed off pressure
23	09/10/2019 03:10	STEACS Briefing						rig down safety meeting
24	09/10/2019 03:31	Pressure Test						re do casing pressure test (needs to be minimum of 30 minutes) for 32 minutes started @ 1987 psi;Ended @ 2082 psi
25	09/10/2019 04:03	Rig Down						crew rigs down floor and ground iron
26	09/10/2019 04:33	STEACS Briefing						journey management
27	09/10/2019 04:35	Leave Location						crew leaves

HighPoint - RSU Anschutz Fed 4-61-5-0909CN Intermediate



Highpoint Casing Test - RSU Anschutz Fed 4-61-5-0909CN Intermediate

