



HighPoint Operating Corporation

Intermediate Post-Job Report

Critter Creek 15-6104BE (API 05-123-47302)

S:15 T:11N R:63W Weld, CO

Quote #:

Execution #:



HighPoint Operating Corporation

Attn: Mr. Matthew Schwartz | (303) 293-9100 | mschwartz@hpres.com

HighPoint Resources | 1099 18th ST, Suite 2300 | Denver, CO 80202

Dear Mr. 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,
Karl Griesser
Field Engineer I | (713) 829-7498 | karl.griesser@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	8/24/2018	Project ID	PRJ1009976
End Date	8/24/2018	Field Ticket#	FT-10162-D1X5P60202-68494
Client	HighPoint Operating Corporation	Well	CRITTER CREEK 15-6104BE
Service Sup.	Andrew Hyde	API#	05-123-47302
District	Cheyenne, WY	County	WELD
Type of Job	Intermediate	State/Province	CO
Execution ID	EXC-10162-D1X5P602	Rig	Cade 24

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade
Previous Casing	8.92	9.63	36.00	1,551.00	1,551.00		
Open Hole	8.75			7,960.00	7,329.00	18.00	
Casing	6.37	7.00	23.00	7,945.00	7,329.00		J-55

Shoe Length (ft): 41.00

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	7,904
Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	7,904.00
Top Plug Size	7.000	Pipe Movement	None
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	12.00	Top Connection Size	7
Centralizers Type	Bow		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	4.00
Lost Circulation Prior to Cement Job	No	10 min SGS	6.00
Mud Density In (ppg)	9.90		
Mud Density Out (ppg)	9.90	Flare Prior to/during the Cement Job	No
PV Mud In	9	Gas Present	No
PV Mud Out	9		
YP Mud In	5		
YP Mud Out	5		

Cementing Treatment



TEMPERATURE

Ambient Temperature (°F)	86.00	Flow Line Temperature (°F)	113.00
Mix Water Temperature (°F)	65.00		

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			627.00				20.0000
Lead Slurry	BJCem I100.3.01C	12.5000	2.0735	11.83	1,300.00	6160	505	1,091.0000	194.1000
Tail Slurry	BJCem I100.6.01C	15.8000	1.1550	4.98	7,460.00	500	87	98.0000	17.4000
Displacement Final	Water	8.3300			0.00			0.0000	311.7000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.6000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, SR-20	1.0200	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Lead Slurry	BJCem I100.3.01C	RETARDER, SR-20	0.4000	BWOB
Lead Slurry	BJCem I100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem I100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem I100.3.01C	BONDING AGENT, BA-60	0.3000	BWOB
Tail Slurry	BJCem I100.6.01C	BONDING AGENT, BA-60	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	FLUID LOSS, FL-24	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	0.1000	BWOB

Cementing Treatment



TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
IntegraGuard EZ Spacer	4.00	20.00	230
BJCem I100.3.01C	6.00	194.10	300
BJCem I100.6.01C	4.00	17.40	178
Water	7.00	311.70	1800

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	311.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	311.00	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	2.50
Bump Plug Pressure (psi)	1,800.00	Total Volume Pumped (bbls)	562
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

EVENT LOG



Customer Name: HighPoint Operating Corporation

Well Name: CRITTER CREEK 15-6104BE

Job Type: Intermediate

Quote ID: QUO-17764-F8L7V3

Plan ID: ORD-10162-D1X5P6

Execution ID: EXC-10162-D1X5P602

District: Cheyenne, WY

BJ Supervisor: Andrew Hyde

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	08/24/2018 09:00	Callout					BJ crew gets called out and requested on location at 15:00
2	08/24/2018 10:30	Safety Meeting					BJ crew talks about the hazards of driving to location
3	08/24/2018 11:01	Other (See comment)					Depart yard
4	08/24/2018 12:30	Arrive on Location					Arrive on location
5	08/24/2018 12:40	Safety Meeting					BJ crew talks about the hazards of spotting in equipment and rigging up
6	08/24/2018 13:05	Rig Up					Rig up
7	08/24/2018 19:45	Safety Meeting					BJ and rig crew talk about the hazards of pumping the job
8	08/24/2018 20:21	Prime Up	8.3300	2.00	3.00	200.00	Pump 3 bbls of water ahead
9	08/24/2018 20:23	Pressure Test					Pressure test pumps and lines to 4000 psi
10	08/24/2018 20:26	Pump Spacer	8.3300	4.00	20.00	230.00	Pump 20 bbls of water spacer
11	08/24/2018 20:31	Pump Spacer	11.0000	4.00	20.00	230.00	Pump 20 bbls of spacer at 11 ppg, with 10 gals of SS-247
12	08/24/2018 20:36	Pump Lead Cement	12.5000	6.00	194.00	300.00	Mix up and pump 530 sks of BJCem I100.3.01C lead cement at 12.5 ppg, yield 2.07, 11.83 gal/sk, 194 bbls
13	08/24/2018 21:08	Pump Tail Cement	15.8000	4.00	17.40	178.00	Mix up and pump 90 sks of BJCem I100.6.01C tail cement at 15.8 ppg, yield 1.15, 4.98 gal/sk, 17.4 bbls
14	08/24/2018 21:13	Other (See comment)					Shutdown line out manifold to drop top plug
15	08/24/2018 21:15	Pump Displacement	8.3300	7.00	291.00	1,750.00	Pump 311 bbls of water displacement
16	08/24/2018 22:01	Pump Displacement	8.3300	3.00	20.00	1,800.00	Slow rate the last 20 bbls to 3 bpm

EVENT LOG

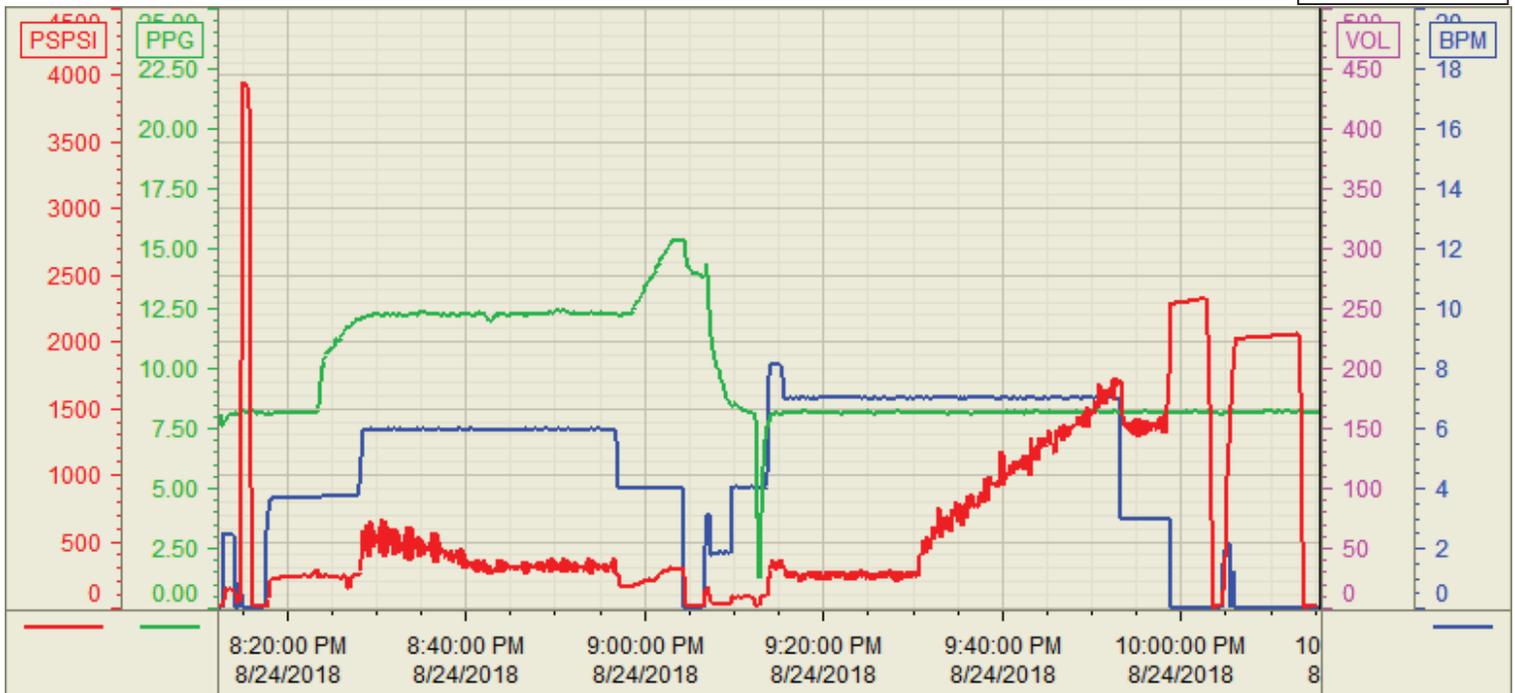


17	08/24/2018 22:07	Land Plug					Bump plug at 1800 psi, took it up to 2300 psi
18	08/24/2018 22:11	Check Floats					got bbls back to the truck
19	08/24/2018 22:15	Pressure Test					Pressure up to 2000 psi for 5 min casing test
20	08/24/2018 22:25	Safety Meeting					BJ crew talks about the hazards of rigging down
21	08/24/2018 22:40	Rig Down					Rig down
22	08/24/2018 23:30	Leave Location					Depart location
23	08/24/2018 23:32	Other (See comment)					Estimated top of tail at 7355 ft, lead at 237 ft, 20 bbls water spacer to surface

Customer: High Point
 Well Number: 15-6104BE
 Lease Info: Critter Creek



Print Date/Time
 8/24/2018 10:28:44 PM



Name	Y value	X value/time stamp	Tag name Y
1 PS - Press (PSI)		8/24/2018 10:15:30 PM i.	Cementer\PS_DISCHARGE_PRESS_DIAL
2 DH - Density (PPG)	8.17	8/24/2018 10:15:33 PM	Cementer\DENSITY2_ACTUAL_RATE
3 Combined rate (BPM)	0.00	8/24/2018 10:15:33 PM	Cementer\Flow_Combined
4			
5			

Source: Control1 10:28:31 PM