



HighPoint Operating Corporation

Fox Creek 33-0362D

API # 05-123-48706-01

Production

August 28, 2019

Quote #: QUO-35768-L8W9R8

Execution #: EXC-20708-P7Z4Y602



HighPoint Operating Corporation

Attention: Mr. Tim Brown | (303) 312-8756 | tibrown@hpres.com

HighPoint Operating Corporation | 555 17th Street, Suite 3700 | Denver, CO. 80202

Dear Mr. Tim Brown,

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) 256-0306 | jason.creel@bjsservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007
Phone: (307) 222-3975

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
CLIENT FIELD REPRESENTATIVE	Bob Sato	COUNTY	WELD
DISTRICT	Cheyenne, WY	STATE / PROVINCE	CO
SERVICE	Cementing		

WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE
Open Hole	6.13	0.00	0.00	18,068.00		15.00	
Casing	4.00	4.50	11.60	18,064.00			P-110
Casing	3.92	4.50	13.50	8,174.00			P-110
Previous Casing	6.37	7.00	23.00	8,174.00			J-55

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	18,048.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	7800.00
Top Plug Size	4.500	Max Casing Pressure - Operated (psi)	2850.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	130.00	Job Pumped Through	No Manifold
Centralizers Type	Bow	Top Connection Thread	8RD
Landing Collar Depth (ft)	18,048	Top Connection Size	4.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	11
Circulation Prior to Job	Yes	YP Mud In	23
Circulation Time (min)	180.00	YP Mud Out	23
Circulation Rate (bpm)	7.50	Solids Present at End of Circulation	No
Circulation Volume (bbls)	1100.00	10 sec SGS	10
Lost Circulation Prior to Cement Job	No	10 min SGS	19
Mud Density In (ppg)	9.00	30 min SGS	19
Mud Density Out (ppg)	9.00	Flare Prior to / during the Cement Job	No
PV Mud In	11	Gas Present	No

Client: HighPoint Operating Corporation

Well: FOX CREEK #33-0362D

Well API: 05-123-48706

Start Date: 8/28/2019

End Date: 8/28/2019

Field Ticket #: FT-20708-P7Z4Y60201-727005908



TEMPERATURE

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

Slurry Cement Temperature (°F)	65.00
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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			5,229.00				40.0000
Tail Slurry	BJCem P50.6.01C	13.5000	1.5930	7.95	6,500.00	11,569.00	790	1258.0000	224.0000
Displacement 1	Retarded Water	8.3300			16,769.00			0.0000	20.0000
Displacement Final	Water + Chems	8.3300			0.00			0.0000	255.0000

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

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ
Calculated Displacement Vol (bbls)	275.00
Actual Displacement Vol (bbls)	275.00
Did Float Hold?	Yes
Bump Plug	Yes
Bump Plug Pressure (psi)	1450.00
Were Returned Planned at Surface	Yes

Cement Returns During Job	None
Method Used to Verify Returns	Visual
Pressure Left on Casing (psi)	0.00
Amt Bled Back After Job	0.50
Total Volume Pumped (bbls)	275.00
Top Out Cement Spotted	No
Lost Circulation During Cement Job	No

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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	08/28/2019 03:00	Callout					CALLED OUT TO BE ON LOCATION AT 09:00
2	08/28/2019 05:30	Depart for Location					LEAVE YARD
3	08/28/2019 06:30	Arrive on Location					ARRIVE TO LOCATION
4	08/28/2019 06:30	Other (See comment)					GET NUMBERS FROM CUSTOMER REP / RIG RUNNING CASING
5	08/28/2019 06:40	Rig					RIG RUNNING CASING
6	08/28/2019 14:00	STEACS Briefing					STEACS BRIEFING
7	08/28/2019 14:10	Spot Units					SPOT EQUIPMENT
8	08/28/2019 14:20	STEACS Briefing					STEACS BRIEFING
9	08/28/2019 14:30	Rig Up					RIG UP GROUND
10	08/28/2019 15:00	Rig					RIG RUNNING CASING
11	08/28/2019 15:45	Rig					CASING ON BOTTOM / CIRCULATING / CASING CREW RIGGING DOWN
12	08/28/2019 16:45	Rig					RIG UP FLOOR / RIG CIRCULATING
13	08/28/2019 18:30	STEACS Briefing					JOB STEACS BRIEFING
14	08/28/2019 18:55	Rig Up					SWITCH LINES TO PUMP
15	08/28/2019 19:00	Other (See comment)	8.3000	3.00	3.00	600.00	LOAD LINES
16	08/28/2019 19:03	Pressure Test	8.3000	1.00	1.00	6000.00	TEST LINES
17	08/28/2019 19:07	Pump Spacer	8.3000	5.00	60.00	1800.00	PUMPING FRESH WATER
18	08/28/2019 19:20	Batch Mix Cement	13.5000				BATCH MIX CEMENT
19	08/28/2019 19:26	Pumping Cement	13.5000	5.00	224.00	1650.00	PUMPING 790 SKS 50/50 CLASS G CEMENT / 13.5 LBS/GAL -- 1.59 CUFT/SK -- 7.95 GAL/SK / 5229' TOP OF CEMENT
20	08/28/2019 19:53	Pumping Cement	13.5000	5.00		350.00	PRESSURE STABILIZED AT 128 BBLs GONE TO 350 PSI
21	08/28/2019 20:03	Pumping Cement	13.5000				SHUTDOWN / KNIFEGATE GOT STUCK AND LINE WAS PACKED OFF / DOWN FOR 11 MINUTES
22	08/28/2019 20:14	Pumping Cement	13.5000	4.00		350.00	PUMPING REST OF CEMENT
23	08/28/2019 20:32	End Pumping					SHUTDOWN
24	08/28/2019 20:34	Drop Top Plug					DROP TOP PLUG
25	08/28/2019 20:38	Wash Pumps and Lines	8.3000				WASH PUMPS AND LINES
26	08/28/2019 20:45	Pump Displacement	8.3000	5.00		680.00	PUMPING DISPLACEMENT WITH RETARDER

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Well: FOX CREEK #33-0362D

Well 05-123-48706

API:



Plan #: ORD-20708-P7Z4Y6

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27	08/28/2019 20:49	Pump Displacement	8.3000	5.00		680.00	PUMPING DISPLACEMENT WITH BIOCID, OXYGEN SCAVENGER, CORROSION INHIBITORS
28	08/28/2019 20:49	Other (See comment)	8.3000	4.00	25.00	450.00	SLOW RATE
29	08/28/2019 21:46	Other (See comment)	8.3000	2.50	255.00	1350.00	SLOW RATE TO BUMP PLUG
30	08/28/2019 21:51	Land Plug	8.3000	2.50	275.00	1450.00	LANDED PLUG AT 950 PSI AND TOOK UP TO 1450 PSI
31	08/28/2019 21:54	Land Plug	8.3000	1.50	1.00	2800.00	RUPTURE PLUG AT 2800 PSI AND PUMP 1 BBLS FOR WET SHOE
32	08/28/2019 21:57	Check Floats					FLOATS HOLDING / 0.5 BBLS BACK
33	08/28/2019 21:58	End Pumping					END JOB / FULL CIRCULATION ENTIRE JOB / DOWN FOR 11 MINUTES WHILE LINE WAS CLEANED OUT / CUSTOMER REP PRESENT WHEN THIS HAPPENED
34	08/28/2019 22:00	STEACS Briefing					STEACS BRIEFING
35	08/28/2019 22:10	Rig Down					RIG DOWN
36	08/28/2019 22:40	Leave Location					CREW LEAVE LOCATION



JobMaster Program Version 4.02C1

Job Number:

Customer: HighPoint Operating

Well Name: Fox Creek 33-0362D

