



# Bayswater Exploration & Production

East Ault 9-18-19HNB

API # 05-123-47067

Surface

April 30, 2020

Quote #: QUO-44918-G5Z8J4

Execution #: EXC-25964-Q3T6Y602



# Bayswater Exploration & Production, LLC

Attention: Mr. Trevor Smith | (720) 335-9045 | [trevor.smith@iptenergyservices.com](mailto:trevor.smith@iptenergyservices.com)

Bayswater Exploration & Production | 730 17th Street, Suite 610 | Denver, CO. 80202

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Dear Mr. Trevor Smith,

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](mailto: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

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# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Jason Ertl	RIG	True 38
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 (%)
Open Hole	13.50	0.00	0.00	1,555.00	1,550.00	25.00
Casing	8.92	9.63	36.00	1,545.00	1,545.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,502.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	2816.00
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	1616.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	17.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,545.00	Top Connection Size	9.625

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.40
Circulation Prior to Job	Yes	Mud Density Out (ppg)	8.40
Circulation Time (min)	45.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	10.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	450.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

## TEMPERATURE

Ambient Temperature (°F)	62.00	Slurry Cement Temperature (°F)	68.00
Mix Water Temperature (°F)	66.00		

## FLUID DETAILS

FLUID TYPE	FLUID NAME	DENSITY (ppg)	YIELD (Cu Ft/sk)	H <sub>2</sub> O REQ (gals/sk)	PLN TOP FLD (ft)	LENGTH (ft)	VOL (sk)	VOL (Cu Ft)	VOL (bbls)
Spacer / Pre Flush / Flush	Water	8.3337			0.00				20.0000
Tail Slurry	BJCem S100.03.1C	14.2000	1.4614	7.34	0.00	1,545.00	650	950.0000	169.2000
Displacement Final	Water	8.3337			0.00			0.0000	116.1000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Displacement Final	Water	CORROSION INHIBITORS, CI-27	0.2100	GPB
Displacement Final	Water	ResCare CS-2	0.0800	GPB
Displacement Final	Water	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water	BIOCIDE, BIOC11139W	0.0100	GPB

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	29.00
Calculated Displacement Vol (bbls)	116.10	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	116.10	Amt of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	0.50
Bump Plug Pressure (psi)	1053.00	Total Volume Pumped (bbls)	310.30
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

# BJ Cementing Event Log

Surface - Cheyenne, WY

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	04/29/2020 16:00	Callout					Crew called out, requested on location at 20:00 on 4/29/2020
2	04/29/2020 17:00	STEACS Briefing					Journey management STEACS briefing with BJ crew about the hazards of driving to location.
3	04/29/2020 17:20	Depart for Location					BJ Crew departed for location.
4	04/29/2020 18:45	Arrive on Location					BJ Crew arrived on location and conducted a STEACS briefing with BJ crew about the hazards of spotting equipment in
5	04/29/2020 18:50	STEACS Briefing					STEACS Briefing with BJ crew about the hazards of rigging up water, bulk and high pressure lines.
6	04/29/2020 19:00	Rig Up					BJ crew rig up water, bulk and high pressure lines.
7	04/29/2020 19:40	Circulate Well					Wait for casing to be run and well to be circulated.
8	04/29/2020 23:40	STEACS Briefing					STEACS Briefing with BJ crew and rig crew about the hazards of rigging up the floor and pumping the job.
9	04/29/2020 23:53	Other (See comment)	8.3300	4.00	5.00	72.00	Pump 5 bbls water spacer ahead to fill lines for pressure test.
10	04/29/2020 23:55	Pressure Test	8.3300			2953.00	Pressure Test BJ lines and valves to 2500 psi. Good Test no leaks
11	04/29/2020 23:57	Pump Spacer	8.3300	5.70	20.00	157.00	Pump 15 bbls water spacer at 4 bpm
12	04/30/2020 00:03	Pump Tail Cement	14.2000	6.30	71.00	193.00	Mix and pump 84.6 bbls BJcem at 14.2 lb/gal, 1.4614 cuft/sk and 7.34 gals/sk 5 bpm. 325 sacks From Teir 4 on CTF-014
13	04/30/2020 00:13	Pump Tail Cement	14.2000	4.80	84.60	223.00	Slow rate for pod switch
14	04/30/2020 00:16	Pump Tail Cement	14.2000	6.40	169.20	189.00	Mix and pump 84.6 bbls BJcem at 14.2 lb/gal, 1.4614 cuft/sk and 7.34 gals/sk 5 bpm. 325 sacks From Teir 3 on CTF-014. Slow rate to 4.8 bpm to blow down last pod with 160 bbls away.
15	04/30/2020 00:31	Drop Top Plug					Shutdown / Drop top plug.
16	04/30/2020 00:35	Pump Displacement	8.3300	7.30	0.00	167.00	Pump 116.1 bbls water displacement with Biocide, Corrosion Inhibitor, O2 Scavenger, FP28L and Res-Care CS-2 throughout.
17	04/30/2020 00:45	Pump Displacement	8.3300	7.30	69.00	381.00	Blue dye to surface

Client: Bayswater Exploration & Production, LLC

Well Name / API: EAST AULT 9-18-19HNB / 05-123-47067

Well MD: 1555



Quote #: QUO-44918-G5Z8J4

Plan #: ORD-25964-Q3T6Y6

Execution #: EXC-25964-Q3T6Y602

18	04/30/2020 00:47	Pump Displacement	8.3300	5.50	80.00	389.00	Slow rate
19	04/30/2020 00:48	Pump Displacement	8.3300	5.50	87.00	402.00	Cement to surface
20	04/30/2020 00:49	Pump Displacement	8.3300	2.70	90.00	453.00	Slow rate last 26 bbls of displacement.
21	04/30/2020 00:57	Land Plug	8.3300	0.00	116.10	1053.00	FCP was 500 psi brought pressure up to 1053 for 2 minutes.
22	04/30/2020 00:59	Check Floats					Floats held with .5 bbls back.
23	04/30/2020 01:00	STEACS Briefing					STEACS Briefing with BJ crew and rig crew about the hazards of rigging down the head, water, bulk and high pressure lines.
24	04/30/2020 01:10	Rig Down					BJ crew and rig crew start rigging down the head, water, bulk and high pressure lines.
25	04/30/2020 02:00	STEACS Briefing					BJ Journey management STEACS briefing with BJ crew about the hazards of driving to the yard.
26	04/30/2020 02:10	Leave Location					Job Completed, BJ Crew leave Location.



JobMaster Program Version 5.00C1

Job Number: 22196

Customer: Great Western

Well Name: East Ault 9-18-19HNB

