



# Bayswater Exploration & Production, LLC

East Ault 12-18-19HNA

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API # 05-123-47065

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## Surface

April 28, 2020

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Quote #: QUO-44915-F3G7Z3

Execution #: EXC-25944-Y4L6F702



# 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	Richard White	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			1,530.00	1,530.00	25.00
Casing	8.92	9.63	36.00	1,530.00	1,530.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,513.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	3520.00
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	818.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	16.00	Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	8 rd
Landing Collar Depth (ft)	1,513	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)	30.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	14.40	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	432.00	Gas Present	No
Lost Circulation Prior to Cement Job	No	30 min SGS	

## TEMPERATURE

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

## 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	1,530.00	650	950.0000	169.2000
Displacement Final	Water	8.3337			0.00			0.0000	115.0000

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	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Water	ResCare CS-2	0.0800	GPB
Displacement Final	Water	Fresh Water	100.0000	PCT
Displacement Final	Water	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water	CORROSION INHIBITORS, CI-27	0.2100	GPB

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amt of Cement Returned / Reversed</b>	27.00
<b>Calculated Displacement Vol (bbls)</b>	117.00	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Vol (bbls)</b>	117.00	<b>Amt of Spacer to Surface</b>	20.00
<b>Did Float Hold?</b>	Yes	<b>Pressure Left on Casing (psi)</b>	0.00
<b>Bump Plug</b>	Yes	<b>Amt Bled Back After Job</b>	0.50
<b>Bump Plug Pressure (psi)</b>	230.00	<b>Total Volume Pumped (bbls)</b>	311.00
<b>Were Returns Planned at Surface</b>	Yes	<b>Top Out Cement Spotted</b>	No
<b>Cement Returns During Job</b>	Full	<b>Lost Circulation During Cement Job</b>	No

# BJ Cementing Event Log

Surface - Cheyenne, WY - Richard White

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	04/27/2020 16:53	Callout					Crew called out checked and verified equipment and materials
2	04/27/2020 18:00	Depart for Location					Steacs meeting and leave for location
3	04/27/2020 19:00	Arrive on Location					Arrive at location
4	04/27/2020 19:05	STEACS Briefing					Pre rig up safety meeting
5	04/27/2020 19:15	Rig Up					Rig up all treating equipment
6	04/27/2020 20:00	Other (See comment)					Wait for rig to finish running casing and circulating
7	04/27/2020 23:00	STEACS Briefing					Pre job safety meeting with customer and rig crew
8	04/27/2020 23:29	Prime Up	8.3300	4.60	5.00	0.00	Fill lines with 5 bbl fresh water
9	04/27/2020 23:31	Pressure Test					Pressure test lines to 3000 psi
10	04/27/2020 23:33	Pump Spacer	8.3300	5.20	20.00	0.00	Pump 20 bbl water with blue dye
11	04/27/2020 23:36	Pumping Cement	14.2000	5.50	84.60	63.00	Pump 84.6 bbl cmt @14.2ppg 325 sks 1.4614y 7.34 gps from tier 3 of ctf-014 wet and dry samples taken and verified
12	04/27/2020 23:51	Pumping Cement	14.2000	5.80	84.60	75.00	Pump 84.6 bbl cmt @14.2ppg 325 sks 1.4614y 7.34 gps from tier 4 of ctf-014 wet and dry samples taken and verified
13	04/28/2020 00:04	Pumping Cement	14.2000	4.40		0.00	Slow rates to finish up bulk cmt
14	04/28/2020 00:06	Pumping Cement	14.2000		169.20		Pump a total of 169.2 bbl cmt@14.2ppg 1.4614y 650 sks 7.34 gps
15	04/28/2020 00:07	Drop Top Plug					Drop top plug
16	04/28/2020 00:11	Pump Displacement	8.3300	7.20	105.00	225.00	Pump 100 bbl disp. Got 27 bbl cmt to surface
17	04/28/2020 00:27	Pump Displacement	8.3300	2.00	12.00	280.00	Pump 17 bbl disp.
18	04/28/2020 00:34	Pump Displacement	8.3300		117.00		Pump a total of 117 bbl disp. With os-30, ci-27, bio-cide, and res care
19	04/28/2020 00:35	Land Plug				818.00	Land plug @ 230 psi took to 818 psi
20	04/28/2020 00:37	Check Floats					Floats held 0.5 bbl back
21	04/28/2020 00:40	STEACS Briefing					Pre rig down safety meeting

Client: Bayswater Exploration & Production, LLC

Well Name / API: EAST AULT 12-18-19HNA / 05-123-47065

Well 1530 MD:



Quote #: QUO-44915-F3G7Z3

Plan #: ORD-25944-Y4L6F7

Execution #: EXC-25944-Y4L6F702

22	04/28/2020 01:10	Rig Down				Rig down treating equipment
23	04/28/2020 01:30	Leave Location				Leave location





JobMaster Program Version 5.01C1

Job Number:

Customer: Bayswater

Well Name: East Ault 12-18-19 HNA

