



# Bayswater Exploration & Production, LLC

East Ault 14-18-19HNB

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API # 05-123-47061

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## Surface

April 26, 2020

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Quote #: QUO-44904-D2J4F5

Execution #: EXC-25927-F4H3B002



# 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@bjsservices.com](mailto:jason.creel@bjsservices.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 Depth (ft)	1,512.00
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	3520.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	1100.00
Top Plug Size	9.630	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	8rd
Landing Collar Depth (ft)	1,512	Top Connection Size	9.625
Tool Type	Float Collar		

## 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)	433.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

## TEMPERATURE

Ambient Temperature (°F)	70.00	Slurry Cement Temperature (°F)	65.00
Mix Water Temperature (°F)	68.00	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	116.8000

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	OXYGEN SCAVENGER, OS-30	0.1680	GPB
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	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>	41.00
<b>Calculated Displacement Vol (bbls)</b>	116.80	<b>Method Used to Verify Returns</b>	Visual
<b>Actual Displacement Vol (bbls)</b>	116.80	<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>	1.00
<b>Bump Plug Pressure (psi)</b>	500.00	<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	04/26/2020 07:00	Callout					Called out crew check and verified equipment and materials
2	04/26/2020 08:00	Depart for Location					Steacs and leave for location
3	04/26/2020 10:00	Arrive on Location					Arrive at location
4	04/26/2020 10:01	STEACS Briefing					Pre rig up safety meeting
5	04/26/2020 10:05	Rig Up					Rig up all treating equipment
6	04/26/2020 11:30	Other (See comment)					Wait for rig to finish running casing and circulating
7	04/26/2020 14:00	STEACS Briefing					Safety meeting with rig crew and customer
8	04/26/2020 14:21	Prime Up	8.3300	4.00	5.00	50.00	Fill lines with 5 bbl fresh water
9	04/26/2020 14:25	Pressure Test					Pressure test lines to 3000 psi
10	04/26/2020 14:27	Pump Spacer	8.3300	7.80	20.00	480.00	Pump 20 bbl fresh water spacer with blue dye
11	04/26/2020 14:31	Pumping Cement	14.2000	7.80	84.60	470.00	Pump 84.6 bbl cmt@14.2ppg 1.4614y 325 sks 7.34 gps from tier 4 of ctf-014, wet and dry samples taken and verified
12	04/26/2020 14:42	Pumping Cement	14.2000	7.80	84.60	550.00	Pump 84.6 bbl cmt@14.2ppg 1.4614y 325 sks 7.34 gps from tier 3 of ctf-014, wet and dry samples taken and verified
13	04/26/2020 14:54	Pumping Cement					Shutdown due to knife gate issues
14	04/26/2020 15:07	Pumping Cement		2.80		50.00	Start pumping again
15	04/26/2020 15:10	Pumping Cement			169.20		Pump a total of 169.2 bbl cmt@ 14.2ppg 1.4614y 7.34gps 650 sks
16	04/26/2020 15:11	Drop Top Plug					Drop top plug
17	04/26/2020 15:16	Pump Displacement	8.3300	7.90	105.00	480.00	Pump 105 bbl disp. 41 bbl good cmt to surface
18	04/26/2020 15:34	Pump Displacement	8.3300	4.00	11.80	425.00	Pump 11.8 bbl disp.
19	04/26/2020 15:36	Pump Displacement			116.20		Pump a total of 116.2 bbl disp with os-30, cl-27, bio-cide, rescare though out all of disp
20	04/26/2020 15:37	Land Plug					Land plug @ 500 psi took to 1100 psi
21	04/26/2020 15:40	Check Floats					Floats held 1 bbl back

Client: Bayswater Exploration & Production, LLC

Well Name / API: EAST AULT 14-18-19HNB / 05-123-47061

Well 1530 MD:



Quote #: QUO-44904-D2J4F5

Plan #: ORD-25927-F4H3B0

Execution #: EXC-25927-F4H3B002

22	04/26/2020 15:43	STEACS Briefing					Pre-rig down safety meeting
23	04/26/2020 15:50	Rig Down					Rig down equipment
24	04/26/2020 16:10	Leave Location					Leave location





JobMaster Program Version 5.01C1

Job Number:

Customer: Bayswater

Well Name: East Ault 14-18-19HNB

