



Bayswater Exploration & Production, LLC

East Ault 13-18-19HC

API # 05-123-47059

Surface

April 27, 2020

Quote #: QUO-44906-D2B3L0

Execution #: EXC-25943-C1P0W202



Bayswater Exploration & Production, LLC

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

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

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

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

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 (%)
Casing	8.92	9.63	36.00	1,558.00	1,530.00	
Open Hole	13.50	0.00	0.00	1,558.00	1,530.00	25.00

HARDWARE

Bottom Plug Used?	No	Tool Depth (ft)	1,515.00
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	3520.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	917.00
Top Plug Size	9.630	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	8 rd
Landing Collar Depth (ft)	1,515	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)	432.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

TEMPERATURE

Ambient Temperature (°F)	55.00	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 ₂ 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	ResCare CS-2	0.0800	GPB
Displacement Final	Water	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Water	CORROSION INHIBITORS, CI-27	0.2100	GPB
Displacement Final	Water	OXYGEN SCAVENGER, OS-30	0.1680	GPB
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	27.00
Calculated Displacement Vol (bbls)	117.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	117.00	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)	322.00	Total Volume Pumped (bbls)	311.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	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 23:32	Callout					Crew called out checked and verified equipment and materials
2	04/26/2020 23:59	Depart for Location					Steacs briefing and leave for location
3	04/27/2020 01:00	Arrive on Location					Arrive at location
4	04/27/2020 01:05	STEACS Briefing					Pre-rig up and spot safety briefing
5	04/27/2020 01:15	Rig Up					Rig up all treating equipment
6	04/27/2020 01:55	Other (See comment)					Wait for rig to finish running casing and circulating
7	04/27/2020 07:00	STEACS Briefing					Pre job safety meeting with rig crew and customer
8	04/27/2020 07:08	Prime Up	8.3300	4.80	5.00	0.00	Fill lines with 5 bbl water
9	04/27/2020 07:10	Pressure Test					Pressure test surface lines to 28500 psi
10	04/27/2020 07:14	Pump Spacer	8.3300	4.90	20.00	0.00	Pump 20 bbl water spacer with blue dye
11	04/27/2020 07:19	Pumping Cement	14.2000	6.00	84.60	190.00	Pump 84.6 bbl cmt@14.2ppg 1.4614y 325sks 7.34gps from tier 3 of ctf-014 wet and dry samples taken and verified
12	04/27/2020 07:31	Pumping Cement	14.2000	4.80		40.00	Slowed rates to finish of bulk tier
13	04/27/2020 07:35	Pumping Cement	14.2000	6.00	84.60	416.00	Pump 84.6 bbl cmt@14.2ppg 1.4614y 325sks 7.34gps from tier 4 of ctf-014 wet and dry samples taken and verified
14	04/27/2020 07:49	Pumping Cement	14.2000	4.80		30.00	Slowed rates to finish bulk tier
15	04/27/2020 07:52	Pumping Cement	14.2000		169.20		Pump a total of 169.2 bbl cmt @14.2ppg 1.4614y 650sks 7.34gps
16	04/27/2020 07:53	Drop Top Plug					Drop top plug
17	04/27/2020 07:57	Pump Displacement	8.3300	7.20	105.00	385.00	Pump 105 bbl disp. Saw 27 bbl cmt to surface
18	04/27/2020 08:12	Pump Displacement	8.3300	3.00	12.00	365.00	Pump 12 bbl disp.
19	04/27/2020 08:13	Pump Displacement	8.3300		117.00		Pump a total of 117 bbl disp. With biocide, ci-27, os-30, and ResCare though out
20	04/27/2020 08:14	Land Plug					Land plug @ 322 psi took to 917 psi
21	04/27/2020 08:17	Check Floats					Floats held 0.5 bbl back

Client: Bayswater Exploration & Production, LLC

Well Name / API: EAST AULT 13-18-19HC / 05-123-47059

Well MD: 1558



Quote #: QUO-44906-D2B3L0

Plan #: ORD-25943-C1P0W2

Execution #: EXC-25943-C1P0W202

22	04/27/2020 08:20	STEACS Briefing					Pre rig down safety meeting
23	04/27/2020 08:30	Rig Down					Rig down all treating equipment
24	04/27/2020 08:45	Leave Location					Leave location



JobMaster Program Version 5.01C1

Job Number:

Customer: Bayswater

Well Name: East Ault 13-18-19HC

