

# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Gregory Black	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Tyler Bond	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 (%)
Open Hole	13.50	0.00	0.00	1,534.00	1,534.00	25.00
Casing	8.92	9.63	36.00	1,532.00	1,532.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,481.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	3012.00
Top Plug Size	9.625	Max Casing Pressure - Operated (psi)	2020.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	17.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	9.625
Landing Collar Depth (ft)	1,481	Top Connection Size	9.625

## CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.80
Circulation Prior to Job	Yes	Mud Density Out (ppg)	8.80
Circulation Time (min)	0.30	Solids Present at End of Circulation	No
Circulation Rate (bpm)	8.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	240.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

## TEMPERATURE

Ambient Temperature (°F)	51.00	Slurry Cement Temperature (°F)	60.00
Mix Water Temperature (°F)	55.00		

## 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
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1,030.00	252	638.0000	113.5000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2255	12.59	1,030.00	500.00	145	323.0000	57.5000
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
Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Displacement Final	Water	Fresh Water	100.0000	PCT

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	40.00
Calculated Displacement Vol (bbls)	114.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	114.00	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)	950.00	Total Volume Pumped (bbls)	310.00
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 - Gregory Black

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	11/15/2019 13:30	Callout					Crew called out with a RTS of 19:30.
2	11/15/2019 16:20	Arrive on Location					Crew arrived on location.
3	11/15/2019 16:30	STEACS Briefing					Pre rig up and spotting procedure with crew.
4	11/15/2019 16:35	Rig Up					Crew rigs up.
5	11/15/2019 17:00	Rig					Crew waiting on rig to finish run casing and circulate.
6	11/15/2019 20:40	STEACS Briefing					Crew holds a safety meeting and job procedure with company man and rig crew.
7	11/15/2019 20:43	Prime Up	8.3400	2.80	2.00	50.00	Crew primes treating iron for pressure test.
8	11/15/2019 20:45	Pressure Test	8.3400			1900.00	Crew performs pressure test.
9	11/15/2019 20:48	Pump Spacer	8.3400	5.00	20.00	172.00	Crew pumps dyed water spacer.
10	11/15/2019 20:54	Pump Lead Cement	12.0000	6.20	113.50	400.00	Crew pumps 252 SKS; Yield: 2.52; GPS: 14.86.
11	11/15/2019 21:09	Pump Tail Cement	12.5000	6.80	57.50	470.00	Crew pumps 145 SKS; Yield:2.22; GPS:12.59.
12	11/15/2019 21:18	Drop Top Plug					Crew drops top plug and preps pump to washup on the plug and displace.
13	11/15/2019 21:25	Pump Displacement	8.3400	5.00	20.00	130.00	Crew pumps displacement while washing up on the plug. (Good returns).
14	11/15/2019 21:29	Pump Displacement	8.3400	7.70	74.00	300.00	Crew pumps displacement (good returns).
15	11/15/2019 21:39	Spacer Back-to-Surface					Spacer to surface @ 54 bbls away, 20 total bbls to surface.
16	11/15/2019 21:39	Cement Back-to-Surface					Cement to surface @ 74 bbls away, 40 total bbls to surface.
17	11/15/2019 21:39	Pump Displacement	8.3400	2.80	20.00	350.00	Crew slows rate to land plug. (Good returns).
18	11/15/2019 21:46	Land Plug					Crew lands plug with a final circulation of 375 psi. Took to 970 Psi. Total 114 displacement of bbls.
19	11/15/2019 21:49	Check Floats					Checked floats, floats held .5 bbls back.
20	11/15/2019 21:50	STEACS Briefing					Rig down safety meeting.
21	11/15/2019 21:54	Rig Down					Crew rigs down.
22	11/15/2019 22:30	STEACS Briefing					Crew holds a return journey meeting.
23	11/15/2019 22:35	Leave Location					Crew pulls off location.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT EAST #O-30-29HN / 05-123-50408

Well MD: 1534



Quote #: QUO-38513-S1B5C6

Plan #: ORD-22520-L6Q3T7

Execution #: EXC-22520-L6Q3T702



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: COT EAST O-30-29HN

Bayswater True 38 surface 11

