

# BJ Cementing Treatment Report

SERVICE SUPERVISOR	Gregory Black	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Scott	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	1,577.00	1,577.00	25.00
Casing	8.92	9.63	36.00	1,567.00	1,567.00	

## HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,516.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	3212.00
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	Rigid	Top Connection Thread	9.625
Landing Collar Depth (ft)	1,516	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	Yes
Circulation Volume (bbls)	480.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

## TEMPERATURE

Ambient Temperature (°F)	30.00	Slurry Cement Temperature (°F)	45.00
Mix Water Temperature (°F)	40.00		

## 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	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
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	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
Tail Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	LBS/SK
Tail Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Displacement Final	Water	Fresh Water	100.0000	PCT

## DISPLACEMENT AND END OF JOB SUMMARY

<b>Displaced By</b>	BJ	<b>Amt of Cement Returned / Reversed</b>	32.00
<b>Calculated Displacement Vol (bbls)</b>	117.00	<b>Method Used to Verify Returns</b>	Flowmeter
<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>	950.00	<b>Total Volume Pumped (bbls)</b>	310.00
<b>Were Returns Planned at Surface</b>	Yes	<b>Top Out Cement Spotted</b>	Yes
<b>Cement Returns During Job</b>	Full	<b>Lost Circulation During Cement Job</b>	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	11/12/2019 09:45	Callout					Called out with a RTS of 04:00.
2	11/13/2019 00:00	Arrive on Location					Arrived on location.
3	11/13/2019 00:00	STEACS Briefing					Pre-rig up and spotting safety meeting
4	11/13/2019 00:05	Rig Up					Crew rigs up.
5	11/13/2019 01:00	Rig					Crew waited for rig to finish running casing and circulating.
6	11/13/2019 05:15	STEACS Briefing					Pre-job safety meeting and job procedure with company man and rig crew.
7	11/13/2019 05:35	Prime Up	8.3400	2.80	2.00	50.00	Primed up iron for pressure test.
8	11/13/2019 05:37	Pressure Test	8.3400			2000.00	Performed pressure test.
9	11/13/2019 05:38	Pump Spacer	8.3400	6.00	20.00	200.00	Pumped water spacer with blue dye.
10	11/13/2019 05:45	Pump Lead Cement	12.0000	6.00	113.50	200.00	Pumped 252 SKS; Yield:2.52; GPS:14.86.
11	11/13/2019 06:02	Pump Tail Cement	12.5000	6.00	57.50	300.00	Pumped 145 SKS; Yield:2.22; GPS:12.59.
12	11/13/2019 06:16	Drop Top Plug					Crew shutdown to drop top plug and start washing up.
13	11/13/2019 06:23	Pump Displacement	8.3400	5.00	20.00	80.00	Crew pumps displacement and washes on the plug.
14	11/13/2019 06:28	Pump Displacement	8.3400	7.50	77.00	250.00	Crew pumps displacement, good returns.
15	11/13/2019 06:38	Spacer Back-to-Surface					Spacer back to surface @ 65 bbls away,20 total bbls back.
16	11/13/2019 06:38	Cement Back-to-Surface					Cement back to surface @85 bbls away,32 total bbls back.
17	11/13/2019 06:38	Pump Displacement	8.3400	2.50	20.00	350.00	Crew slower rate to bump plug.
18	11/13/2019 06:48	Other (See comment)					Crew bumps plug with a final circulation 350 psi of. took to 920 psi.
19	11/13/2019 06:51	Check Floats					Floats held,.5 bbls back.
20	11/13/2019 06:51	STEACS Briefing					Crew holds a rig down safety meeting.
21	11/13/2019 06:55	Rig Down					Crew rigs down.
22	11/13/2019 07:30	STEACS Briefing					Journey management safety meeting.
23	11/13/2019 07:35	Leave Location					Crew leaves location.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT EAST #R-30-29HN / 05-123-50420

Well MD: 1577



Quote #: QUO-38510-N2B1C2

Plan #: ORD-22518-B1G6C3

Execution #: EXC-22518-B1G6C302



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: COT EAST R-30-29HN

