

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Gregory Black	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Gary Doke	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	1,584.00	1,584.00	25.00
Casing	8.92	9.63	36.00	1,574.00	1,574.00	

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,533.00
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	19.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,533	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.70
Circulation Prior to Job	Yes	Mud Density Out (ppg)	8.70
Circulation Time (min)	30.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	6.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	180.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

TEMPERATURE

Ambient Temperature (°F)	35.00	Slurry Cement Temperature (°F)	45.00
Mix Water Temperature (°F)	45.00		

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
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 EXTENDER, GYPSUM, A-10	5.0000	BWOB
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
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	21.00
Calculated Displacement Vol (bbls)	118.50	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	112.00	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	1.00
Bump Plug Pressure (psi)	1150.00	Total Volume Pumped (bbls)	310.50
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	01/29/2020 15:00	Callout					Called out with a RTS of 20:30.
2	01/29/2020 18:30	Arrive on Location					Crew arrived on location.
3	01/29/2020 18:30	STEACS Briefing					Performed a pre rig up and procedure safety meeting.
4	01/29/2020 18:35	Rig Up					Rigged up.
5	01/29/2020 19:00	Rig					Waited on rig to run casing and circulate.
6	01/29/2020 22:15	STEACS Briefing					Pre job safety meeting and pump procedure with company man and rig crew.
7	01/29/2020 22:32	Prime Up	8.3400	3.00	2.00	100.00	Primed up iron for pressure test.
8	01/29/2020 22:34	Pressure Test	8.3400				Performed pressure test.
9	01/29/2020 22:37	Pump Spacer	8.3400	7.00	20.00	250.00	Pumped water spacer with blue dye.
10	01/29/2020 22:42	Pump Lead Cement	12.0000	7.00	113.50	300.00	Pumped 252 sks; Yield:2.52; GPS: 14.86.
11	01/29/2020 22:59	Pump Tail Cement	12.5000	7.00	57.50	350.00	Pumped 145 sks; Yield: 2.22; GPS:12.59.
12	01/29/2020 23:08	Drop Top Plug					Dropped top plug while pumper got ready to displace and washup on the plug.
13	01/29/2020 23:11	Pump Displacement	8.3400	7.00	20.00	280.00	Pumped water displacement and washed up on top of plug.
14	01/29/2020 23:20	Pump Displacement	8.3400	7.00	78.50	400.00	Pumped diesel displacement.
15	01/29/2020 23:29	Spacer Back-to-Surface					20 bbls of blue dyed water spacer to surface.
16	01/29/2020 23:29	Cement Back-to-Surface					21 bbls of good cement to surface.
17	01/29/2020 23:29	Pump Displacement	8.3400	3.00	28.00	400.00	Slowed rate and pumped last 20 bbls with fresh water to land plug and clean lines.
18	01/29/2020 23:32	Land Plug					Bumped plug with a total displacement. Of 112 bbls pumped. Final circulation pressure was 600, took to 1150 psi.
19	01/29/2020 23:35	Check Floats					Floats didn't hold
20	01/29/2020 23:38	Other (See comment)					Re pressured up on it and held for 10 minutes. (Floats held 1 bbl back).
21	01/29/2020 23:49	STEACS Briefing					Rig down safety meeting.
22	01/29/2020 23:52	Rig Down					Rigged down.
23	01/30/2020 00:15	STEACS Briefing					Return journey safety meeting.
24	01/30/2020 00:20	Leave Location					Pulled off location.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT WEST #S-30-25HN / 05-123-50421

Well MD: 1584



Quote #: QUO-41649-F3B7P4

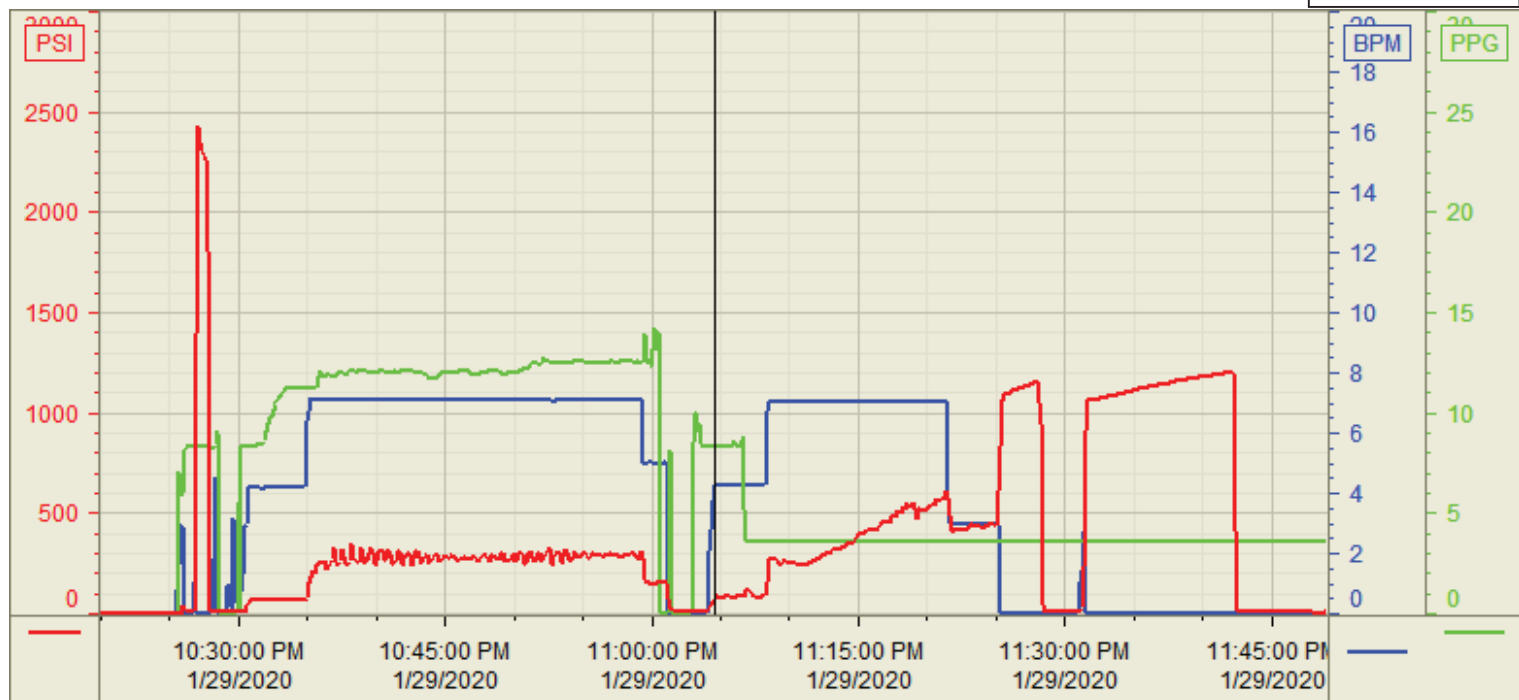
Plan #: ORD-24155-M3G2X7

Execution #: EXC-24155-M3G2X702

Customer: BAYSWATER
 Well Number: S-30-25HN
 Lease Info: COT WEST



Print Date/Time
 1/30/2020 12:11:30 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	79.4	1/29/2020 11:04:33 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	8.33	1/29/2020 11:04:31 PM	Cementer\DENSITY_ACTUAL_RATE
3	Combined Rate	4.26	1/29/2020 11:04:31 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 12:11:26 AM