

BJ Cementing Treatment Report

SERVICE SUPERVISOR	William Silvester	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	4.78	5.50	20.00	16,033.00	7,174.00	
Previous Casing	8.92	9.63	36.00	1,561.00	1,561.00	
Open Hole	8.50	0.00	0.00	16,044.00	7,174.00	5.00

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	16,010
Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	16,036.05
Top Plug Size	5.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	195.00	Top Connection Thread	Buttress
Centralizers Type	Rigid		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	18
Circulation Prior to Job	Yes	YP Mud In	8
Circulation Time (min)	180.00	YP Mud Out	8
Circulation Rate (bpm)	6.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	2041.86	10 sec SGS	7
Lost Circulation Prior to Cement Job	No	10 min SGS	14
Mud Density In (ppg)	10.10	30 min SGS	16
Mud Density Out (ppg)	9.90	Flare Prior to / during the Cement Job	No
PV Mud In	18	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	22.00	Slurry Cement Temperature (°F)	71.00
Mix Water Temperature (°F)	65.00	Flow Line Temperature (°F)	90.00

Client: Bayswater Exploration & Production, LLC

Well: COT WEST #T-30-25HC

Well API: 05-123-50405

Start Date: 3/3/2020

End Date: 3/3/2020

Field Ticket #: FT-24864-X0Y4K90201-1227535225



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	Dye Flush	8.3300			0.00				2.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	12.0000			0.00				28.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	11.5000			0.00				26.0000
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	11.0000			0.00				26.0000
Lead Slurry	BJCem P100.3.01C	13.2000	1.8295	9.87	0.00	7,021.00	950	1739.0000	309.5000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4774	7.45	6,605.00	9,011.00	1465	2165.0000	385.5000
Displacement 2	Retarded Water w/ Clay Protection & Biocide	8.3331			15,559.07	0.00	0	0.0000	10.0000
Displacement Final	Water w/ Clay Protection & Biocide	8.3331			0.00			0.0000	344.7000

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FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	Dye Flush	DYE,LIQUID,BLUE	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.7000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.1000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-66	0.5000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraCare EC-2	3.0000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	CEMENT, FLY ASH (ROCKIES)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.1000	BWOB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	RETARDER, SR-61L	0.1000	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB
Displacement Final	Water w/ Clay Protection & Biocide	ResCare CS-2	0.0800	GPB
Displacement Final	Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	GPB

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DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	0.00
Calculated Displacement Vol (bbls)	355.41	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	355.41	Amt of Spacer to Surface	60.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	No	Amt Bled Back After Job	3.50
Bump Plug Pressure (psi)	0.00	Total Volume Pumped (bbls)	1135.41
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

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BJ Cementing Event Log

Long String - Cheyenne, WY - William Silvester

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	03/03/2020 00:30	Callout					Callout
2	03/03/2020 02:30	STEACS Briefing					Yard up, load up, pretrip equip, pre convoy meeting
3	03/03/2020 02:40	Depart for Location					Convoy to location
4	03/03/2020 03:30	Arrive on Location					Arrive on location
5	03/03/2020 05:30	STEACS Briefing					Pre rig up meeting
6	03/03/2020 06:00	Rig Up					Rig up
7	03/03/2020 07:00	STEACS Briefing					Pre job meeting
8	03/03/2020 07:30	Prime Up			5.00	120.00	Fill pump & lines
9	03/03/2020 08:30	Pressure Test	8.3300	3.00	5.00	5000.00	Pressure test pump & lines
10	03/03/2020 08:45	Pump Spacer	12.0000	4.00	28.00	210.00	Pump spacer 1, good returns
11	03/03/2020 08:54	Pump Spacer	11.5000	4.00	26.00	200.00	Pump spacer 2, good returns
12	03/03/2020 09:05	Pump Spacer	11.0000	1.00	26.00	434.00	Pump spacer 3, good returns
13	03/03/2020 09:10	Pump Lead Cement	13.2000	6.00	100.00	310.00	Lead = 950 sks 1.83 ft3/sk 9.87 gps, good returns, wet & dry samples taken
14	03/03/2020 09:40	Pump Lead Cement	13.2000	6.00	200.00	216.00	Pump lead, good returns, wet sample weighed & verified
15	03/03/2020 09:51	Pump Lead Cement	13.2000	6.00	309.50	216.00	Pump lead, good returns,
16	03/03/2020 10:07	Pump Tail Cement	13.5000	6.00	100.00	685.00	Pump tail, good returns, wet & dry samples taken
17	03/03/2020 10:27	Pump Tail Cement	13.5000	6.00	385.50	560.00	Pump tail, good returns, wet & dry samples taken, and verified, got all cement pumped away,
18	03/03/2020 11:25	Drop Top Plug					
19	03/03/2020 11:30	Other (See comment)					Rig pumps to displace, pump had no hydraulics, hard to tell because rig had air in the pump, checked float it held 3.5 bbls back got about 60 bbls of spacer back no cement company rep decided to under rather than over on displacement

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Well MD: 16042



Quote #: QUO-43015-K9K0Y8

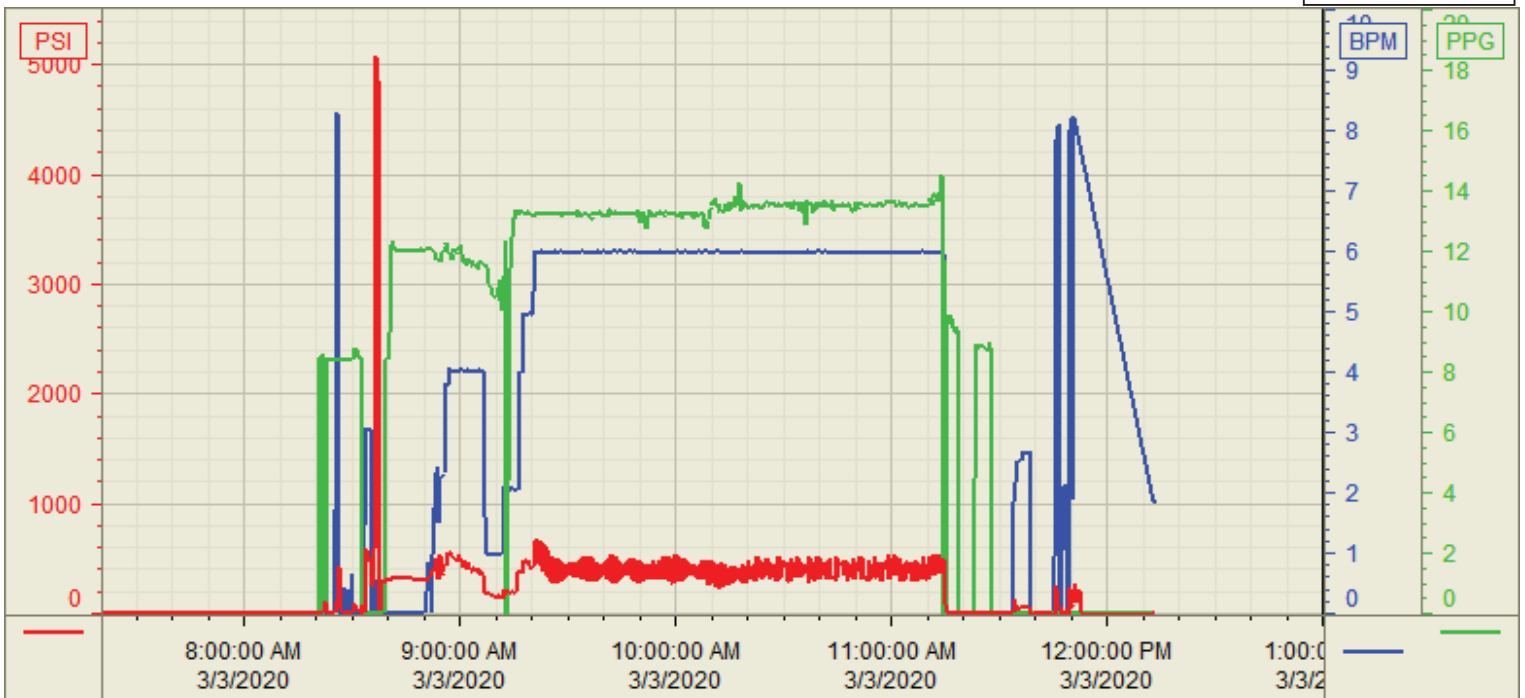
Plan #: ORD-24864-X0Y4K9

Execution #: EXC-24864-X0Y4K902

Customer: BAYSWATER
 Well Number: T-30-25HC
 Lease Info: COT WEST



Print Date/Time
 3/3/2020 12:13:42 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)		3/3/2020 1:00:00 PM i.	CementerDS_DISCHARGE_PRESS_DIAL
2	Density (PPG)		3/3/2020 1:00:00 PM i.	CementerDENSITY_ACTUAL_RATE
3	Combined Rate (BPM)		3/3/2020 1:00:00 PM i.	CementerFlow_Combined
4				
5				

Source: Control1 12:13:34 PM