

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 (%)
Open Hole	8.50	0.00	0.00	16,113.00	7,232.00	5.00
Previous Casing	8.92	9.63	36.00	1,566.00	1,566.00	
Casing	4.78	5.50	20.00	16,103.00	7,232.00	

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	16,106
Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	16,079.30
Top Plug Size	5.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	200.00	Top Connection Thread	Buttress
Centralizers Type	Rigid	Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	18
Circulation Prior to Job	Yes	YP Mud In	8
Circulation Time (min)	120.00	YP Mud Out	8
Circulation Rate (bpm)	8.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	2049.00	10 sec SGS	6
Lost Circulation Prior to Cement Job	No	10 min SGS	15
Mud Density In (ppg)	10.00	30 min SGS	17
Mud Density Out (ppg)	10.00	Flare Prior to / during the Cement Job	No
PV Mud In	18	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	31.00	Slurry Cement Temperature (°F)	65.00
Mix Water Temperature (°F)	64.00	Flow Line Temperature (°F)	100.00

Client: Bayswater Exploration & Production, LLC

Well: COT WEST #V-30-25HN

Well API: 05-123-50413

Start Date: 2/10/2020

End Date: 2/10/2020

Field Ticket #: FT-24391-COW4J80201-225459898



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	7,210.00	975	1784.0000	317.7000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4774	7.45	6,754.50	8,911.00	1450	2143.0000	381.5000
Displacement 2	Retarded Water w/ Clay Protection & Biocide	8.3331				0.00	0	0.0000	10.0000
Displacement Final	Water w/ Clay Protection & Biocide	8.3331			0.00			0.0000	346.6000

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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	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	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	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	RETARDER, R-7C	2.0000	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	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	SPACER SURFACTANT, SS-267	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	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.1000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.7000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraCare EC-2	3.0000	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-66	0.5000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, FLY ASH (ROCKIES)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	RETARDER, SR-61L	0.1000	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	BIOCIDE, BIOC11139W	0.0100	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	20.00
Calculated Displacement Vol (bbls)	356.60	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	356.60	Amt of Spacer to Surface	80.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	3.50
Bump Plug Pressure (psi)	3120.00	Total Volume Pumped (bbls)	1136.60
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	02/10/2020 08:30	Callout					Call out
2	02/10/2020 10:30	STEACS Briefing					Pre convoy meeting, load up, pre trip equip,
3	02/10/2020 11:30	Depart for Location					Convoy to location
4	02/10/2020 12:00	Arrive on Location					Arrive on location
5	02/10/2020 14:00	STEACS Briefing					Pre rig up meeting
6	02/10/2020 14:10	Rig Up					Rig up
7	02/10/2020 16:00	Pressure Test		2.00	3.00	5500.00	Fill & pressure test pump & lines
8	02/10/2020 16:40	Pump Spacer	12.0000		28.00	230.00	Spacer= 28 bbls with ss-267, good returns
9	02/10/2020 17:05	Pump Spacer	11.5000		26.00	230.00	Spacer= 26 bbls with ss-267, good returns
10	02/10/2020 17:10	Pump Spacer	11.0000		26.00	230.00	Spacer= 26 bbls with ss-267, good returns
11	02/10/2020 17:20	Pump Lead Cement	13.2000	7.00	318.00	400.00	Lead= 975 sks 1.8295 ft3/sk,9.87 gps wet & dry samples taken & verified with scale
12	02/10/2020 18:00	Pump Tail Cement	13.5000	5.00	138.40	277.00	Tail= 1,450 sks 1.4774 ft3/sk, 7.45 gps wet & dry samples taken & verified with scale
13	02/10/2020 18:40	Pump Tail Cement	13.5000	5.00	382.20	490.00	Tail= 1,450 sks 1.4774 ft3/sk, 7.45 gps wet & dry samples taken & verified with scale
14	02/10/2020 19:40	Drop Top Plug	8.3300	7.00	382.20	490.00	Drop top plug start displacement sr-61l in 1st 10 bbls
15	02/10/2020 20:00	Pump Displacement	8.3300	7.00	356.60	2680.00	Displacement, good returns, 10 bbls interface 20 bbls of lead to surface, verified with scale
16	02/10/2020 20:50	Land Plug	8.3300	3.00	356.60	3120.00	Land plug, final circulation psi 2680 bump plug to 3120 psi,
17	02/10/2020 20:55	STEACS Briefing					Pre rig down meeting
18	02/10/2020 21:00	Rig Down					Rig down
19	02/10/2020 22:30	STEACS Briefing					Pre convoy meeting
20	02/10/2020 22:35	Leave Location					Convoy back to yard

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Well Name / API: COT WEST #V-30-25HN / 05-123-50413

Well 16121 MD:

Quote #: QUO-42230-F7V1Z8

Plan #: ORD-24391-C0W4J8

Execution #: EXC-24391-C0W4J802

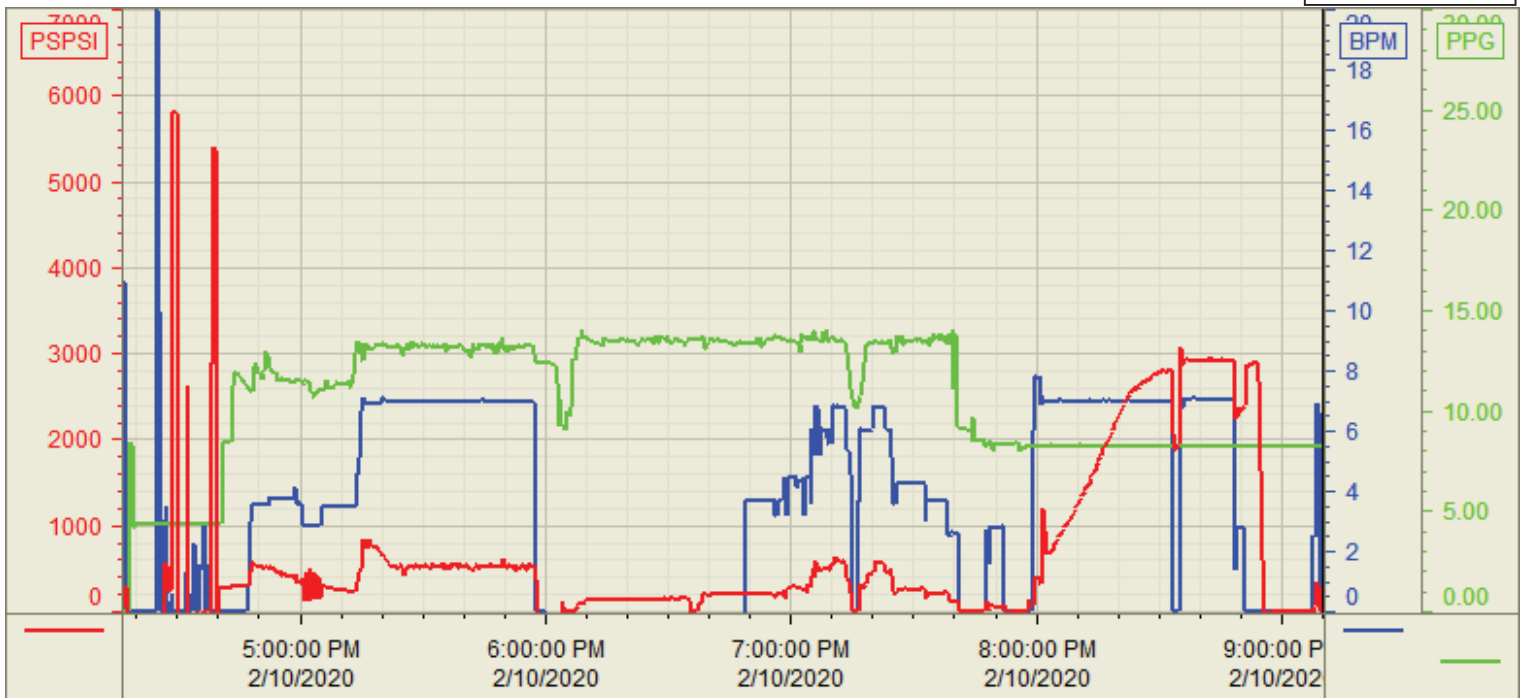


Customer: Bayswater
 Well Number: V-30-25HN
 Lease Info: COT WEST



Print Date/Time

2/10/2020 10:23:58 PM



	Name	Y value	X value/time stamp	Tag name Y
1	PS - Press (PSI)	201.4	2/10/2020 6:43:41 PM	Cementer\PS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	13.48	2/10/2020 6:43:45 PM	Cementer\DENSITY_ACTUAL_RATE
3	Combined rate (BPM)	-107.87	2/10/2020 6:43:45 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 10:23:53 PM