

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Hector Montoya	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	8.92	9.63	36.00	1,567.00	1,567.00	
Open Hole	13.50	0.00	0.00	1,574.00	1,574.00	25.00

HARDWARE

Bottom Plug Used?	No	Landing Collar Depth (ft)	1,520
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	3520.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	2860.00
Top Plug Size	9.625	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	17.00	Top Connection Size	9.625
Centralizers Type	Bow		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud In	4
Circulation Prior to Job	Yes	PV Mud Out	4
Circulation Time (min)	60.00	YP Mud In	1
Circulation Rate (bpm)	8.00	YP Mud Out	1
Circulation Volume (bbls)	420.00	Solids Present at End of Circulation	No
Lost Circulation Prior to Cement Job	No	Flare Prior to / during the Cement Job	No
Mud Density In (ppg)	8.80	Gas Present	No
Mud Density Out (ppg)	8.80		

TEMPERATURE

Ambient Temperature (°F)	32.00	Slurry Cement Temperature (°F)	75.00
Mix Water Temperature (°F)	70.00	Flow Line Temperature (°F)	90.00

Client: Bayswater Exploration & Production, LLC

Well: COT WEST #U-30-25HN

Well API: 05-123-50407

Start Date: 1/28/2020

End Date: 1/28/2020



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	Dirty Diesel	8.3337			0.00			0.0000	117.0000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	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	CEMENT, ASTM TYPE III	100.0000	PCT
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	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail 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	CEMENT, ASTM TYPE III	100.0000	PCT
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
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Displacement Final	Dirty Diesel	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	23.00
Calculated Displacement Vol (bbls)	117.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	117.00	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	0.75
Bump Plug Pressure (psi)	1320.00	Total Volume Pumped (bbls)	305.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

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BJ Cementing Event Log

Surface - Cheyenne, WY - Hector Montoya

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	01/27/2020 23:30	Callout					BJ Crew gets called out
2	01/28/2020 01:00	Other (See comment)					Load Up for job
3	01/28/2020 03:00	Arrive on Location					Arrive on location
4	01/28/2020 05:00	Rig Up					Rig Up
5	01/28/2020 07:30	STEACS Briefing					BJ Crew and Rig Crew discuss hazards of pumping the job
6	01/28/2020 07:55	Prime Up					Fill Lines
7	01/28/2020 07:57	Pressure Test					Pressure test to 3000psi
8	01/28/2020 08:00	Pump Spacer	8.3300	4.00	20.00	200.00	Pump 20bbl Blue Dye Spacer Fresh Water
9	01/28/2020 08:05	Pump Lead Cement	12.0000	6.50	113.00	250.00	LEAD- 113bbl at 12ppg, 252skts BJ Cem S100.3.1C, Y-.52, GPS-14.86, MIX WTR-89bbl
10	01/28/2020 08:22	Pump Tail Cement	12.5000	6.50	55.00	300.00	TAIL- 57bbl at 12,5ppg, 145skts BJ Cem S100.3.1C, Y-.25, GPS-12.59, MIX WTR-43.5. Estimated Height of Tail at 660ft, Estimated Top of Tail at 888ft
11	01/28/2020 08:33	Drop Top Plug					Customer witnesses Top Plug leave
12	01/28/2020 08:37	Pump Displacement	8.3300	7.00	100.00	600.00	Total Displacement 117 bbl. Dirty Diesel. 23bbl cement to surface
13	01/28/2020 08:51	Pump Displacement	8.3300	3.00	17.00	700.00	Slow rate last 20bbl to land plug, Fresh Water
14	01/28/2020 08:57	Land Plug				1305.00	Final Circulating pressure was 700psi took to 1320psi
15	01/28/2020 09:00	Check Floats					Floats Held, .75bbl back
16	01/28/2020 09:03	Rig Down					Rig Down
17	01/28/2020 10:00	Leave Location					Leave location

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT WEST #U-30-25HN / 05-123-50407

Well 1530
MD:



Quote #: QUO-41647-M3F1X0

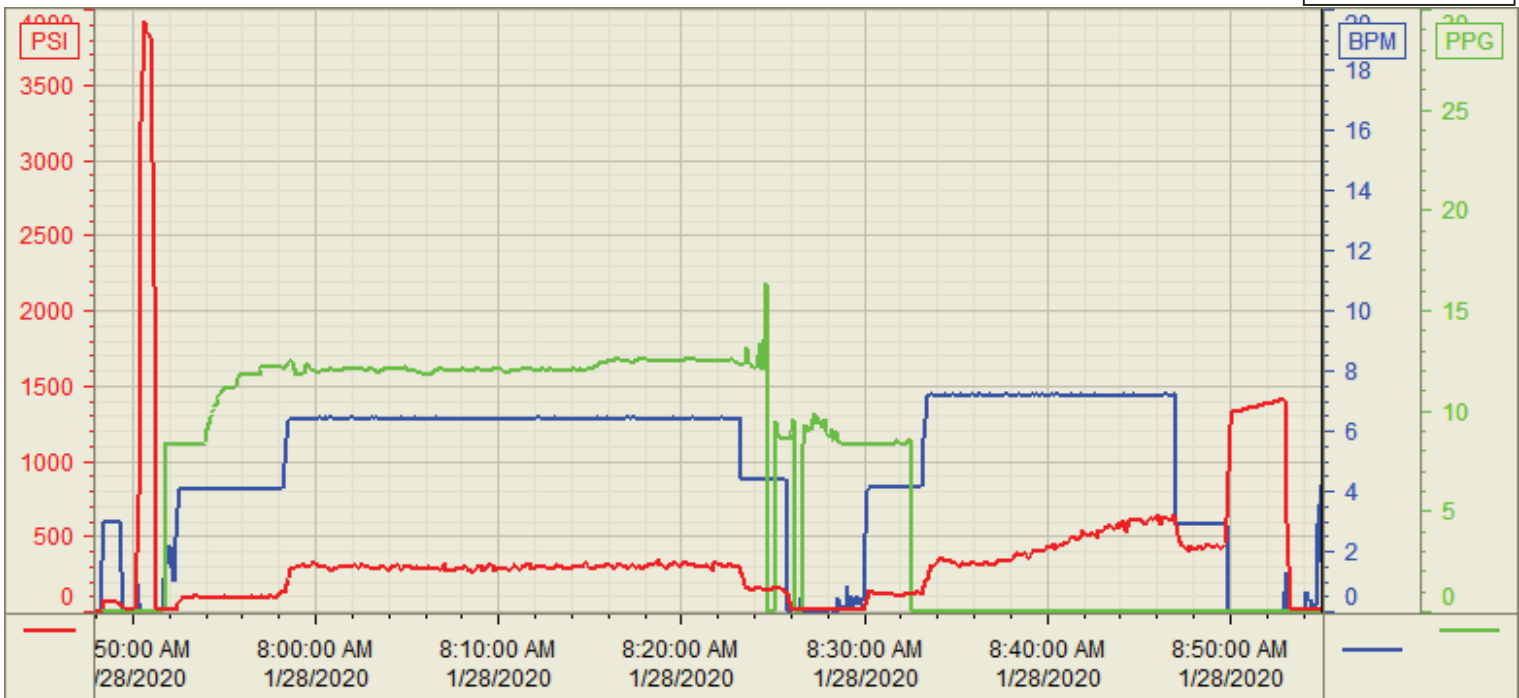
Plan #: ORD-24114-X9F0D9

Execution #: EXC-24114-X9F0D902

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



Print Date/Time
 1/28/2020 9:19:02 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	17.4	1/28/2020 8:54:58 AM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	0.00 i.	1/28/2020 8:55:00 AM i.	Cementer\DENSITY_ACTUAL_RATE
3	Combined Rate	4.19	1/28/2020 8:54:58 AM	Cementer\Flow_Combined
4				
5				

Source: Control1 9:18:58 AM