

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Gregory Black	RIG	True 38
CLIENT FIELD REPRESENTATIVE	Trevor Smith	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	1,579.00	1,579.00	25.00
Casing	8.92	9.63	36.00	1,576.00	1,579.00	

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	1,525.00
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	LTC
Landing Collar Depth (ft)	1,525	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	YP Mud In	1
Circulation Prior to Job	Yes	YP Mud Out	1
Circulation Time (min)	1.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	8.00	10 sec SGS	1
Circulation Volume (bbls)	480.00	10 min SGS	1
Lost Circulation Prior to Cement Job	No	30 min SGS	1
Mud Density In (ppg)	9.00	Flare Prior to / during the Cement Job	No
Mud Density Out (ppg)	9.00	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	50.00	Slurry Cement Temperature (°F)	65.00
Mix Water Temperature (°F)	60.00		

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 Additive, Sodium Metasilicate A-2	2.0000	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	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	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 EXTENDER, GYPSUM, A-10	5.0000	BWOB
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	Rig	Amt of Cement Returned / Reversed	27.50
Calculated Displacement Vol (bbls)	117.80	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	117.80	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	0.50
Bump Plug Pressure (psi)	740.00	Total Volume Pumped (bbls)	308.80
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	Yes
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	11/08/2019 15:00	Callout					Crew called out with an RTS of 22:00
2	11/08/2019 15:00	Arrive on Location					Arrived on location.
3	11/08/2019 19:00	STEACS Briefing					Crew holds up meeting for safety and spotting equipment.
4	11/08/2019 19:05	Rig Up					Crew rigs up all iron bulk and water.
5	11/08/2019 19:30	Rig					Crew waiting on rig to finish running casing and circulating.
6	11/08/2019 21:45	STEACS Briefing					Crew hold pre job procedure and job safety meeting.
7	11/08/2019 21:59	Prime Up	8.3400	3.00	2.00	100.00	Crew primes lines and head for pressure test.
8	11/08/2019 22:00	Pressure Test					Crew holds pressure test.
9	11/08/2019 22:04	Pump Spacer	8.3400	4.00	20.00	130.00	Crew pumps H2O.
10	11/08/2019 22:09	Pump Lead Cement	12.0000	7.80	113.50	650.00	Crew pumps 252 sks; Yield:2.52;GPS:14.86.
11	11/08/2019 22:22	Pump Tail Cement	12.5000	7.80	57.50	600.00	Crew pumps 145 sks; Yield:2.22;GPS:12.59.
12	11/08/2019 22:37	Other (See comment)					Crew shuts down to prep head to launch plug and pumper sets up pump to washup and go downhole.
13	11/08/2019 22:45	Drop Top Plug					Dropped top plug with company man and driller verification.
14	11/08/2019 22:45	Pump Displacement	8.3400	6.40	20.00	235.00	Crew pumps displacement and washes up on the plug.
15	11/08/2019 22:48	Pump Displacement	8.3400	6.40	77.50	300.00	Crew pumps displacement.
16	11/08/2019 22:59	Pump Displacement	8.3400	3.00	20.00	350.00	Crew slows rate to land plug.
17	11/08/2019 23:07	Other (See comment)					Crew lands plug with a final circulation 450 psi of took to 740 psi.
18	11/08/2019 23:07	Spacer Back-to-Surface					Spacer back at 70 away for a total of 20 bbls back.
19	11/08/2019 23:07	Cement Back-to-Surface					Cement back at 90 bbls away for a total of 27.5 bbls to surface.
20	11/08/2019 23:10	Check Floats					Checked floats they held with .5 bbls back.
21	11/08/2019 23:10	STEACS Briefing					Crew holds a rig down safety meeting.
22	11/08/2019 23:15	Rig Down					Crew rigs down all equipment and stages it for next job.
23	11/08/2019 23:45	STEACS Briefing					Crew holds a return trip steacs meeting.
24	11/08/2019 23:50	Leave Location					Crew leaves location.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT EAST #V-30-29HN / 05-123-50403

Well MD: 1579



Quote #: QUO-38505-S6B6T4

Plan #: ORD-22391-F4P7L9

Execution #: EXC-22391-F4P7L902



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: COT EAST V-30-29HN

