

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 (%)
Casing	8.92	9.63	36.00	1,576.00	1,530.00	
Open Hole	13.50	0.00	0.00	1,586.00	1,530.00	25.00

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	16.00	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	PV Mud Out	1
Circulation Prior to Job	No	YP Mud In	4
Circulation Time (min)	1.00	YP Mud Out	4
Circulation Rate (bpm)	8.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	460.00	10 sec SGS	1
Lost Circulation Prior to Cement Job	No	10 min SGS	1
Mud Density In (ppg)	9.00	30 min SGS	1
Mud Density Out (ppg)	9.00	Flare Prior to / during the Cement Job	No
PV Mud In	1	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	32.00	Slurry Cement Temperature (°F)	55.00
Mix Water Temperature (°F)	50.00		

Client: Bayswater Exploration & Production, LLC

Well: COT EAST #W-30-29HC

Well API: 05-123-50508

Start Date: 11/7/2019

End Date: 11/8/2019



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	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	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	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
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 EXTENDER, GYPSUM, A-10	5.0000	BWOB
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
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	22.00
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)	790.00	Total Volume Pumped (bbls)	302.60
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	11/07/2019 19:00	Callout					Crew called out with an RTS of 01:00.
2	11/07/2019 19:00	Arrive on Location					Crew on location.
3	11/07/2019 23:30	STEACS Briefing					Crew holds rig up and spotting, safety meeting.
4	11/07/2019 23:35	Rig Up					Crew rigged up all iron, bulk and water.
5	11/08/2019 00:00	Rig					Crew waiting on rig to finish running casing and circulating.
6	11/08/2019 01:45	STEACS Briefing					Crew holds job procedure and safety meeting with rig crew and company man.
7	11/08/2019 01:56	Prime Up	8.3400	3.00	2.00	130.00	Loaded lines for pressure test.
8	11/08/2019 01:57	Pressure Test	8.3400			2700.00	Crew performs pressure test.
9	11/08/2019 02:01	Pump Spacer	8.3400	4.00	20.00	200.00	Crew pumps H2O spacer.
10	11/08/2019 02:07	Pump Lead Cement	12.0000	6.20	113.50	500.00	Crew pumps 252 sks; Yield:2.52; GPS:14.86
11	11/08/2019 02:25	Pump Tail Cement	12.5000	4.00	57.50	230.00	Crew pumps 145 sks; Yield:2.22; GPS:12.59
12	11/08/2019 02:40	Other (See comment)					Crew shuts down to prep head and pumper starts washing pump, setting up to displace.
13	11/08/2019 02:46	Drop Top Plug					Drop plug with company man verification.
14	11/08/2019 02:46	Pump Displacement	8.3400	3.90	20.00	117.00	Crew washes on plug and displaces.
15	11/08/2019 02:51	Pump Displacement	8.3400	7.00	77.80	600.00	Crew displaces.
16	11/08/2019 03:05	Pump Displacement	8.3400	3.00	20.00	400.00	Crew slows rate to land plug.
17	11/08/2019 03:11	Spacer Back-to-Surface					Spacer back @ 75 bbls away,20 total bbls back.
18	11/08/2019 03:11	Cement Back-to-Surface					Cement back @ 95 bbls away, 22 total bbls back.
19	11/08/2019 03:11	Other (See comment)					Crew bumps plug with final circulation pressure of 450 psi, took to 790 psi.
20	11/08/2019 03:11	Check Floats					Floats held .5 bbls back.
21	11/08/2019 03:14	STEACS Briefing					Crew holds rig down safety meeting.
22	11/08/2019 03:20	Rig Down					Crew rigs down and stages equipment for next job.
23	11/08/2019 04:00	STEACS Briefing					Crew holds a meeting before heading back.
24	11/08/2019 04:05	Leave Location					Crew leaves.

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT EAST #W-30-29HC / 05-123-50508

Well 1586 MD:



Quote #: QUO-38503-Z1S1G0

Plan #: ORD-22390-V3L8X6

Execution #: EXC-22390-V3L8X602



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: COT EAST W-30-29HC

