

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Gregory Black	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	15,902.00	7,272.00	
Open Hole	8.50	0.00	0.00	15,911.00	7,272.00	7.00
Previous Casing	8.92	9.63	36.00	1,562.00	1,562.00	

HARDWARE

Bottom Plug Used?	No	Tool Type	Float Collar
Top Plug Used?	Yes	Tool Depth (ft)	15,879.00
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	5.500	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	BTC
Centralizers Type	Rigid	Top Connection Size	5.5
Landing Collar Depth (ft)	15,879.00		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	9.80
Circulation Prior to Job	Yes	Mud Density Out (ppg)	9.80
Circulation Time (min)	240.00	Solids Present at End of Circulation	No
Circulation Rate (bpm)	6.00	Flare Prior to / during the Cement Job	No
Circulation Volume (bbls)	1,440.00	Gas Present	No
Lost Circulation Prior to Cement Job	No		

TEMPERATURE

Ambient Temperature (°F)	23.00	Slurry Cement Temperature (°F)	50.00
Mix Water Temperature (°F)	50.00		

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	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	1.8290	9.86	0.00	7,028.00	970	1775.0000	316.0000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4769	7.45	7,028.00	8,860.00	1470	2172.0000	386.7000
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	341.5000

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	242.6900	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	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	242.6900	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	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	242.6900	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	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-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	IntegraCare EC-2	3.0000	BWOB

Client: Bayswater Exploration & Production, LLC

Well: COT WEST #R-30-25HN

Well API: 05-123-50414

Start Date: 3/20/2020

End Date: 3/20/2020



Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-66	0.5000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.7000	BWOB
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	FOAM PREVENTER, FP-24	0.3000	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	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-24	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	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	ResCare CS-2	0.0800	GPB
Displacement 2	Retarded Water w/ Clay Protection & Biocide	RETARDER, SR-61L	0.1000	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

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	22.00
Calculated Displacement Vol (bbls)	352.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	352.00	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	2.50
Bump Plug Pressure (psi)	2,800.00	Total Volume Pumped (bbls)	1,180.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

BJ Cementing Event Log

Long String - Cheyenne, WY - Gregory Black

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	03/20/2020 11:00	Callout					Called out with a RTS of 1700.
2	03/20/2020 15:00	Arrive on Location					Arrived on location.
3	03/20/2020 15:00	STEACS Briefing					Pre rig up spotting/safety meeting.
4	03/20/2020 15:10	Rig Up					Crew rigged up.
5	03/20/2020 16:30	Rig					Waited on rig to circulate.
6	03/20/2020 18:27	STEACS Briefing					Safety/procedure meeting for job with crew, rig crew, and company man.
7	03/20/2020 18:45	Equipment Issue					getting driver side triplex thawed.
8	03/20/2020 19:07	Prime Up	8.3400	2.00	5.00	200.00	Primed treating iron with blue dye.
9	03/20/2020 19:11	Pressure Test	8.3400			5000.00	Pressure test.
10	03/20/2020 19:22	Pump Spacer	12.0000	4.00	28.00	300.00	Pumped weighted spacer.
11	03/20/2020 19:29	Other (See comment)					From bulk truck ctf-004 FP.
12	03/20/2020 19:29	Pump Spacer	11.5000	4.00	26.00	300.00	Pumped weighted spacer.
13	03/20/2020 19:34	Other (See comment)					From bulk truck ctf-004 FP.
14	03/20/2020 19:34	Pump Spacer	11.0000	4.00	26.00	600.00	Pumped weighted spacer.
15	03/20/2020 19:44	Other (See comment)					From bulk truck ctf-004 FP.
16	03/20/2020 19:44	Pump Lead Cement	13.2000	7.00	98.00	500.00	Pumped a total of 970 sks; YIELD:1.82; GPS:9.86
17	03/20/2020 19:59	Other (See comment)					From bin CTF-014 Tier 1.
18	03/20/2020 19:59	Pump Lead Cement	13.2000	7.00	50.00	400.00	Pumped a total of 970 sks; YIELD:1.82; GPS:9.86
19	03/20/2020 20:06	Other (See comment)					From bin CTF-014 Tier 2
20	03/20/2020 20:06	Pump Lead Cement	13.2000	7.00	75.00	800.00	Pumped a total of 970 sks; YIELD:1.82; GPS:9.86
21	03/20/2020 20:17	Other (See comment)					From bin CTF-014 Tier 3
22	03/20/2020 20:17	Pump Lead Cement	13.2000	7.00	77.00	400.00	Pumped a total of 970 sks; YIELD:1.82; GPS:9.86
23	03/20/2020 20:27	Other (See comment)					From bin CTF-014 Tier 4

Client: Bayswater Exploration & Production, LLC

Well Name / API: COT WEST #R-30-25HN / 05-123-50414

Well 15911 MD:



Quote #: QUO-43790-C9Z4C8

Plan #: ORD-25374-D9K1T7

Execution #: EXC-25374-D9K1T702

24	03/20/2020 20:27	Other (See comment)		4.00	14.00	300.00	Slowed rate to get all cement out of field bin.
25	03/20/2020 20:30	Pump Tail Cement	13.5000	7.00	66.00	800.00	Pumped a total of 1,470 SKS; Yield:1.47; GPS:7.45.
26	03/20/2020 20:40	Other (See comment)					From bin CTF-012 Tier 1
27	03/20/2020 20:40	Pump Tail Cement	13.5000	7.00	72.00	800.00	Pumped a total of 1,470 SKS; Yield:1.47; GPS:7.45.
28	03/20/2020 20:51	Other (See comment)					From bin CTF-012 tier 2
29	03/20/2020 20:51	Pump Tail Cement	13.5000	7.00	95.00	800.00	Pumped a total of 1,470 SKS; Yield:1.47; GPS:7.45.
30	03/20/2020 21:04	Other (See comment)					From bin CTF-012 tier 3
31	03/20/2020 21:04	Pump Tail Cement	13.5000	7.00	45.00	800.00	Pumped a total of 1,470 SKS; Yield:1.47; GPS:7.45.
32	03/20/2020 21:08	Other (See comment)		3.00	4.00	200.00	fixing vacuum breaker that stuck open
33	03/20/2020 21:09	Other (See comment)		7.00	7.00	350.00	picked rate back up
34	03/20/2020 21:13	Other (See comment)					From bin ctf-012 tier 4
35	03/20/2020 21:13	Pump Tail Cement	13.5000	7.00	60.00	734.00	Pumped a total of 1,470 sks; yield:1.47; gps:7.45.
36	03/20/2020 21:20	Other (See comment)					From ctf-339 fp
37	03/20/2020 21:20	Pump Tail Cement	13.5000	7.00	38.00	600.00	Pumped a total of 1,470 sks; yield:1.47; gps:7.45.
38	03/20/2020 21:26	Pump Tail Cement	13.5000	5.00	18.00	400.00	Slowed rate to get all cement out.
39	03/20/2020 21:31	Other (See comment)					From ctf-339 rp
40	03/20/2020 21:31	Drop Top Plug					Dropped top plug while pumper washed up to 4 sided.
41	03/20/2020 21:40	Other (See comment)					Tried to fix transducers that quite working.
42	03/20/2020 21:44	Pump Displacement	8.3400	9.20	40.00	800.00	Pumped displacement with good returns.
43	03/20/2020 21:50	Pump Displacement	8.3400	9.20	25.00	800.00	Pumped displacement with good returns.
44	03/20/2020 21:53	Other (See comment)					Shutdown due to fixing transducer psi.
45	03/20/2020 21:56	Pump Displacement	8.3400	8.80	158.00	2100.00	Pumped displacement with good returns.
46	03/20/2020 22:15	Other (See comment)					Shutdown to switch to 4 sided tank.
47	03/20/2020 22:20	Pump Displacement	8.3400	8.50	24.00	2200.00	Pumped displacement with good returns.
48	03/20/2020 22:24	Other (See comment)					Shutdown because stopped getting water. (passenger side pony motor died).
49	03/20/2020 22:33	Pump Displacement	8.3400	7.80	85.00	2800.00	Pumped displacement with good returns.

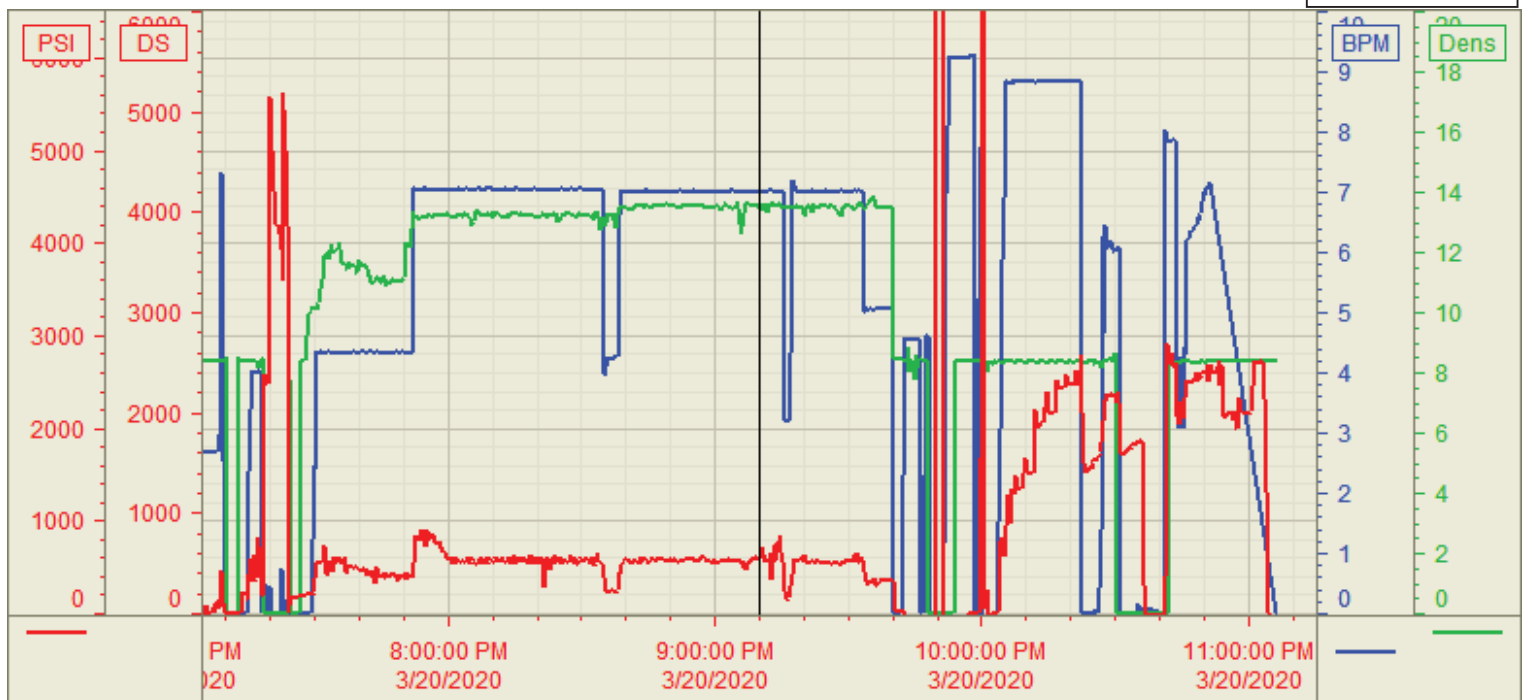
50	03/20/2020 22:47	Pump Displacement	8.3400	3.00	20.00	1900.00	Pumped displacement with good returns. Slowed rate to land plug.
51	03/20/2020 22:55	Spacer Back-to-Surface					80 bbls of spacer to surface.
52	03/20/2020 22:55	Cement Back-to-Surface					22 bbls to surface.
53	03/20/2020 22:55	Land Plug					Plug landed with a total of 352 bbls pumped; FCP was 2200 psi, took to 3200 psi.
54	03/20/2020 22:55	Check Floats					Floats held with 2.5 bbls back.
55	03/20/2020 22:55	STEACS Briefing					Rig down safety meeting.
56	03/20/2020 23:10	Rig Down					Rigged down.
57	03/20/2020 23:45	STEACS Briefing					Return journey safety meeting.
58	03/20/2020 23:50	Leave Location					Left location.

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



Print Date/Time

3/20/2020 11:06:30 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	582.4	3/20/2020 9:10:06 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Den - Density (PPG)	13.58	3/20/2020 9:09:58 PM	Cementer\DENSITY_ACTUAL_RATE
3	Flow Rate (BBLs)	7.04	3/20/2020 9:09:57 PM	Cementer\Flow_Combined
4				
5				

Source: Control1 11:06:24 PM