

Cementing Treatment



Start Date	3/26/18	Well	G & D HANKS W-27-28HC
End Date	3/26/18	County	WELD
Client	BAYSWATER EXPLORATION & PRODUCTION, LLC	State/Province	CO
Client Field Rep	Mark Stoner	API	05-123-46276
Service Supervisor	Eric Dewit	Rig	True 38
District	Cheyenne, WY	Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Casing	8.92	9.63	36.00	1,553.00	1,553.00	
Open Hole	13.50			1,563.00	1,563.00	30.00

Shoe Length (ft): 46

HARDWARE

Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	2816
Top Plug Provided By	Rig	Max Casing Pressure - Operated (psi)	1500
Top Plug Size	9.625	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	BJ Cement head
Centralizers Type	Bow Spring	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,507	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density Out (ppg)	8.5
Circulation Prior to Job	Yes	PV Mud In	1
Circulation Time (min)	30	PV Mud Out	1
Circulation Rate (bpm)	5	YP Mud In	3
Circulation Volume (bbls)	150	YP Mud Out	3
Lost Circulation Prior to Cement Job	No	Solids Present at End of Circulation	No
Mud Density In (ppg)	8.5	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	40	Mix Water Temperature (°F)	48
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Cementing Treatment



BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (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	1,050.00	265	667.0000	118.7000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2256	12.59	1,050.00	500.00	150	336.0000	59.8000
Displacement Final	Water	8.3337			0.00			0.0000	116.6000

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 EXTENDER, SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
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, SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	IntegraSeal CELLO	0.1300	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	BJ	Amount of Cement Returned/Reversed	34
Calculated Displacement Volume (bbls)	116.5	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	116.5	Amount of Spacer to Surface	17
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	Yes	Amount Bled Back After Job	.5
Bump Plug Pressure (psi)	851	Total Volume Pumped (bbls)	316.5
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Yes	Lost Circulation During Cement Job	No



Customer Name Bayswater
 Well Name W-27-28HC
 Job Type Surface

District Cheyenne
 Supervisor Eric Dewit
 Engineer _____

Seq No.	Start Date/Time	Category	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	3/25/2018 22:00	Mobilization	Callout	1					Customer calls with an O/L time of 4:30. Equipment and personel already on location
2	3/26/2018 4:30	Operational	Safety Meeting	53					Pre-rig up STEACS Briefing
3	3/26/2018 4:40	Operational	Rig Up	50					Rig up the iron on the ground
4	3/26/2018 5:00	StandBy	Customer	85					Waiting on rig to finish running in the hole with casing
5	3/26/2018 6:20	Operational	Rig Up	50					Casing at set depth, rig up head for rig to circulate through
6	3/26/2018 6:50	Operational	Safety Meeting	53					Pre-job safety meeting with the rig crew and company man
7	3/26/2018 7:08	Operational	Start Pumping	55	8.34	2	3	37	Load lines with 3 bbls of fresh water
8	3/26/2018 7:11	Operational	Pressure Test	54	8.34	0	0	2870	Pressure test pumps and lines
9	3/26/2018 7:14	Operational	Pump Spacer	56	8.34	4.7	20	137	Pump 20 bbls of fresh water + Dye
10	3/26/2018 7:17	Operational	Pump Lead Cement	58	12	5.7	118	326	Pump 265 sacks of lead cement @12 ppg (Yield: 2.52 Mix Water: 14.86)
11	3/26/2018 7:36	Operational	Pump Tail Cement	60	12.5	5.8	59	190	Pump 150 sacks of tail cement @12.5 ppg (Yield: 2.22 Mix Water: 12.59)
12	3/26/2018 7:49	Operational	Drop Top Plug	63					Shut down and release top plug
13	3/26/2018 7:51	Operational	Pump Displacement	64	8.34	6	0	110	Send plug start fresh water displacement
14	3/26/2018 8:04	Operational	Spacer Back to Surface	65	8.34	7	65	370	Start getting the dye back to surface
15	3/26/2018 8:07	Operational	Cement Back to Surface	66	8.34	7	82	460	Start getting good cement to surface
16	3/26/2018 8:11	Operational	Other (See comments)	76	8.34	2.4	105	259	Slow pump rate to land the plug
17	3/26/2018 8:15	Operational	Land Plug	67	8.34	2.4	116.5	851	Land the plug @362 psi, Bump up to 851 (34 bbls of cement to surface)
18	3/26/2018 8:25	Operational	Check Floats	68	8.34	0	0	0	Check floats (floats held) .5 bbl back
19	3/26/2018 8:30	Operational	Safety Meeting	53					Pre-rig down safety meeting
20	3/26/2018 8:40	Operational	Rig Down	73					Rig down the iron on the ground, leave the head on the floor, and the water, and bulk rigged up



JobMaster Program Version 4.02C1
Job Number: 4174
Customer: Bayswater
Well Name: G&D W-27-28HC

