

Cementing Treatment



Start Date	3/25/18	Well	WA-27-28HN G & D HANKS
End Date	3/25/18	County	WELD
Client	BAYSWATER EXPLORATION & PRODUCTION, LLC	State/Province	CO
Client Field Rep	Mark Stoner	API	05-123-46295
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(%)
Open Hole	13.50			1,563.00	1,563.00	30.00
Casing	8.92	9.63	36.00	1,553.00	1,553.00	

Shoe Length (ft): 46

HARDWARE

Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	2,816
Top Plug Provided By	Rig	Max Casing Pressure - Operated (psi)	1,500
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 In (ppg)	8.5
Circulation Prior to Job	Yes	Mud Density Out (ppg)	8.5
Circulation Time (min)	30	Solids Present at End of Circulation	No
Circulation Rate (bpm)	5	Flare Prior to/during the Cement Job	No
Circulation Volume (bbls)	150	Gas Present	No
Lost Circulation Prior to Cement Job	No		

TEMPERATURE

Ambient Temperature (°F)	40	Mix Water Temperature (°F)	50
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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	8.3300			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 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
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	IntegraSeal CELLO	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,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	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	Cement returns During Job	Yes
Calculated Displacement Volume (bbls)	116.5	Amount of Cement Returned/Reversed	31
Actual Displacement Volume (bbls)	116.5	Method Used to Verify Returns	Yes
Did Float Hold?	Yes	Amount of Spacer to Surface	10
Bump Plug	Yes	Amount Bled Back After Job	1
Bump Plug Pressure (psi)	854	Total Volume Pumped (bbls)	316.5
Were Returns Planned at Surface	Yes		

Customer Name Bayswater
 Well Name G&D Hanks WA-27-28HN
 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 2:30	Mobilization	Callout	1					Customer calls with an O/L time of 8:30, Equipment and crew already on location
2	3/25/2018 7:30	StandBy	Other (See comment)	82					Rig crew getting ready to start running casing
3	3/25/2018 8:30	Operational	Safety Meeting	53					Have a Pre-rig up STEACS briefing with crew
4	3/25/2018 9:00	Operational	Rig Up	50					Rig up everything
5	3/25/2018 9:15	StandBy	Other (See comment)	82					Waiting for rig to finish running casing in the hole
6	3/25/2018 10:23	Operational	Rig Up	50					Casing is on bottom, rig up cement head for rig to circulate through
7	3/25/2018 10:48	Operational	Safety Meeting	53					Pre-job safety meeting with rig crew and the company man
8	3/25/2018 10:55	Operational	Rig Up	50					Rig up our treating line to the cement head
9	3/25/2018 10:59	Operational	Start Pumping	55	8.34	2	3	26	Load lines with 3 bbls of fresh water
10	3/25/2018 11:07	Operational	Pressure Test	54	8.34	0	0	2385	Pressure test pumps and lines
11	3/25/2018 11:11	Operational	Pump Spacer	56	8.34	3	20	26	Pump 20 bbls of fresh water + Dye
12	3/25/2018 11:17	Operational	Pump Lead Cement	58	12	5.6	118	118	Pump 265 sacks of lead cement @12 ppg (Yield: 2.52 Mix Water: 14.86)
13	3/25/2018 11:39	Operational	Pump Tail Cement	60	12.5	4.8	142	59	Pump 150 sacks of tail cement @12.5 ppg (Yield: 2.22 Mix Water: 12.59)
14	3/25/2018 11:55	Operational	Drop Top Plug	63					Shut down and drop the top plug
15	3/25/2018 12:03	Operational	Pump Displacement	64	8.34	6	0	118	Send plug start fresh water displacement, had to slow rate during displacement one of the water tanks had water in it but we could not pull off it, had to hook up to a transport that was filling one of the tanks
16	3/25/2018 12:22	Operational	Spacer Back to Surface	65	8.34	5.6	75	330	Start seeing Dye to surface
17	3/25/2018 12:24	Operational	Cement Back to Surface	66	8.34	5.6	85	355	Start getting good cement to surface
18	3/25/2018 12:28	Operational	Other (See comments)	76	8.34	2.4	105	270	Slow pump rate to land the plug
19	3/25/2018 12:33	Operational	Land Plug	67	8.34	2.4	116.5	854	Land plug @325 psi Bump up to 854 psi (31 bbls of cement to surface)
20	3/25/2018 12:43	Operational	Check Floats	68	8.34	0	0	0	Check floats (floats held 1 bbl back)
21	3/25/2018 12:46	Operational	Safety Meeting	53					Pre-rig down safety meeting
22	3/25/2018 13:15	Mobilization	Leave Location	74					Leave location head back to the yard



JobMaster Program Version 4.02C1
Job Number: 4150
Customer: Bayswater
Well Name: G&D WA-27-28HN

