

Cementing Treatment



Start Date	6/4/18	Field Ticket#	07360-R8V9M50202-76563
End Date	6/4/18	Well	Thornton F-29-30HN
Client	BAYSWATER EXPLORATION & PRODUCTION, LLC	API#	05-123-43593
Client Field Rep.	Marsh	County	WELD
Service Sup.	Brian Boyd	State/Province	CO
District	Cheyenne, WY	Rig	True 38
Type of Job	Surface	Project ID	PRJ1007370
Execution ID	EXC-07360-R8V9M502		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50			1,562.00	1,562.00	30.00
Casing	8.92	9.63	36.00	1,552.00	1,552.00	

Shoe Length (ft): 42

HARDWARE

Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Bayswater	Tool Depth (ft)	1507
Top Plug Size	9 5/8"	Max Casing Pressure - Rated (psi)	2520
Centralizers Used	Yes	Max Casing Pressure - Operated (psi)	2816
Centralizers Quantity	16	Pipe Movement	No
Centralizers Type	Catamount	Job Pumped Through	BJ Cement Head
Landing Collar Depth (ft)	1,507	Top Connection Thread	LTC
		Top Connection Size	9 5/8"

CIRCULATION PRIOR TO JOB

Well Circulated By	True 38	PV Mud In	1
Circulation Prior to Job	Yes	YP Mud In	4
Circulation Time (min)	60	Solids Present at End of Circulation	No
Circulation Rate (bpm)	5	10 sec SGS	1
Circulation Volume (bbls)	140	10 min SGS	1
Lost Circulation Prior to Cement Job	No	30 min SGS	2
Mud Density In (ppg)	8.33	Flare Prior to/during the Cement Job	No
Mud Density Out (ppg)	8.33	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	90	Slurry Cement Temperature (°F)	70
Mix Water Temperature (°F)	61	Flow Line Temperature (°F)	76

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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	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	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER,SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Tail Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.03.1C	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
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	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.03.1C	CEMENT EXTENDER,SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	Amount of Cement Returned/Reversed	32 bbls
Calculated Displacement Volume (bbls)	116	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	117	Amount of Spacer to Surface	20 bbls
Did Float Hold?	Yes	Amount Bled Back After Job	0.5 bbl
Bump Plug	Yes	Total Volume Pumped (bbls)	313
Bump Plug Pressure (psi)	808	Top Out Cement Spotted	No
Were Returns Planned at Surface	Yes	Lost Circulation During Cement Job	No
Cement returns During Job	Yes		

Event Log



Customer Name: BAYSWATER EXPLORATION & PRODUCTION, LLC
Well Name: Thornton F-29-30HN
Job Type: Surface
TMD (ft): 1552

District: Cheyenne, WY
Field Leader: Brian Boyd
Quote ID: QUO-12895-Y9W9G3
Plan ID: ORD-07360-R8V9M5
Execution ID: EXC-07360-R8V9M502

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	06/03/2018 22:30	Callout					Customer called crew out and requested crew to be on location at 4:00
2	06/04/2018 00:30	Leave Location					BJ crew has journey mangement and departs from location
3	06/04/2018 2:00	Arrive on Location					BJ crew arrives on location and meet with customer
4	06/04/2018 2:20	Rig Up					BJ crew has STEACS briefing and begins rigging up iron and hoses
5	06/04/2018 3:30	Other (See comment)					Waiting on rig to finish tripping out drill pipe and run casing
6	06/04/2018 17:57	Other (See comment)					Rig lands casing and begins to recurilate through BJ cement head
7	06/04/2018 18:21	Safety Meeting					Steacs breifing with Bj crew, rig crew and company man over job and hazards
8	06/04/2018 18:33	Start Pumping	8.3300	2.00	2.00	30.00	Fill pumps and lines
9	06/04/2018 18:41	Pressure Test	0.5000	0.50	0.50	3,150.00	Pressure test iron and head to 3000 PSI
10	06/04/2018 18:46	Pump Spacer	8.3300	5.00	20.00	43.00	Pump 20 bbls of red dye ahead
11	06/04/2018 18:51	Pump Lead Cement	12.0000	5.00	118.00	220.00	Pump 118 bbls of 12 PPG lead Cement (2.52 Yield, 14.86 Gals/Sks, 265 sks)
12	06/04/2018 19:17	Pump Tail Cement	12.5000	5.00	59.00	175.00	Pump 59 bbls of 12.5 PPG Tail Cement (2.22 Yield, 12.59 Gals/Sks, 150 Sks)
13	06/04/2018 19:34	End Pumping					Shut down pumping
14	06/04/2018 19:39	Drop Top Plug					Drop Top PLug with company man to verify plug went downhole
15	06/04/2018 19:40	Pump Displacement	8.3300	5.00	117.00	115.00	Pump displacement with fresh water for total of 117 bbls
16	06/04/2018 19:58	Cement to Surface	8.3300	5.00	83.00	333.00	83 bbls into displacement got cement to surface for total of 32 bbls of cement to surface
17	06/04/2018 20:03	Other (See comment)	8.3300	2.50	106.00	262.00	Last ten bbls of displacement slowed rate down to 2.5 bpm
18	06/04/2018 20:08	Land Plug			117.00	800.00	Bump plug to 800 PSI FCP of 634 total displacement 117 bbls
19	06/04/2018 20:11	Check Floats					Got .5 bbl back to truck
20	06/04/2018 20:15	Rig Down					Bj crew has STEACS over rigging down iron and hoses and then rig down iron and hoses
21	06/04/2018 21:00	Leave Location					BJ crew has journey mangment and departs from location



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: Thorton F-29-30HN

