

Cementing Treatment



Start Date 6/7/18 End Date 6/7/18 Client BAYSWATER EXPLORATION & PRODUCTION, LLC Client Field Rep. Scott Service Sup. Brian Boyd District Cheyenne, WY Type of Job Surface Execution ID EXC-07472-B9J2R602	Field Ticket# 07472-B9J2R60202-47392 Well Thornton C-29-30HN API# 05-123-43610 County WELD State/Province CO Rig True 38 Project ID PRJ1007465
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WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50			1,562.00	1562.00	30.00
Casing	8.92	9.63	36.00	1,553.00	1553.00	

Shoe Length (ft): 42

HARDWARE

Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Bayswater	Tool Depth (ft)	1511'
Top Plug Size	9 5/8"	Max Casing Pressure - Rated (psi)	3520
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)	1,511	Top Connection Thread	LTC
		Top Connection Size	9 5/8"

CIRCULATION PRIOR TO JOB

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

TEMPERATURE

Ambient Temperature (°F)	75	Slurry Cement Temperature (°F)	66
Mix Water Temperature (°F)	61	Flow Line Temperature (°F)	81

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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,SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
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	IntegraSeal CELLO	0.1300	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	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	FOAM PREVENTER, FP-25	0.3000	BWOB
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)	117	Method Used to Verify Returns	Visual/Dye
Actual Displacement Volume (bbls)	116	Amount of Spacer to Surface	20 bbls
Did Float Hold?	Yes	Amount Bled Back After Job	0.5 bbls
Bump Plug	Yes	Total Volume Pumped (bbls)	320
Bump Plug Pressure (psi)	847	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

District: Cheyenne, WY

Well Name: Thornton C-29-30HN

Field Leader: Brian Boyd

Job Type: Surface

Quote ID: QUO-12898-J1W9S8

TMD (ft): 1553

Plan ID: ORD-07472-B9J2R6

Execution ID: EXC-07472-B9J2R602

Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
06/06/2018 20:00	Callout					Customer requested crew to be on location at 3:00
06/06/2018 20:30	Leave Location					Bj crew has journey mangement and depart from shop
06/06/2018 21:30	Arrive on Location					Bj crew arrives on location and meet with customer
06/07/2018 2:30	Safety Meeting					Bj crew has Steacs over rigging up iron and hoses
06/07/2018 2:40	Rig Up					BJ crew rigs up iron and hoses
06/07/2018 3:00	Other (See comment)					Waiting on rig to finish wiper trip and running casing
06/07/2018 5:51	Circulate Well					Rig lands casing and recirculates well
06/07/2018 6:05	Safety Meeting					Steacs breiefing with Bj crew, rig crew and company man over job and hazrds
06/07/2018 6:36	Start Pumping	8.3300	2.00	3.00	35.00	Fill pumps and lines
06/07/2018 6:38	Pressure Test	8.3300	0.50	0.50	3,000.00	Pressure test iron and head
06/07/2018 6:41	Pump Spacer	8.3300	5.00	20.00	45.00	Pump 20 bbls of red dye ahead
06/07/2018 6:48	Pump Lead Cement	12.0000	5.00	118.00	160.00	Pump 118 bbls of 12 PPG lead cement (2.52 Yield, 14.86 Gals/Sks, 265 Sks)
06/07/2018 7:15	Pump Tail Cement	12.5000	5.00	59.00	145.00	Pump 59 bbls of 12.5 PPG Tail cement (2.22 Yield, 12.59 Gals/Sks, 150 Sks)
06/07/2018 7:33	End Pumping					Shut down pumping
06/07/2018 7:38	Drop Top Plug					Drop top plug with company man to verify plug went downhole
06/07/2018 7:38	Pump Displacement	8.3300	6.00	116.00	549.00	Pump 117 bbls of fresh water displacement
06/07/2018 7:55	Cement Back to Surface	8.3300	6.00	83.00	436.00	83 bbls into displacement got cement back to surface for total of 32 bbls of cement to surface
06/07/2018 7:58	Other (See comment)	8.3300	2.50	106.00	489.00	Last 10 bbls of displacement slow rate to 2.5 bpm
06/07/2018 8:01	Land Plug			116.00	847.00	Bump plug to 847 PSI, FCP of 335 PSI, total displacement of 116 bbls
06/07/2018 8:04	Check Floats					Check floats got .5 bbl back to pump truck
06/07/2018 8:10	Safety Meeting					BJ crew has Steacs breifing over rigging down iron and hoses
06/07/2018 8:15	Rig Down					BJ crew rigs down iron and hoses
06/07/2018 9:00	Leave Location					Bj crew has journey mangement and departs from location



JobMaster Program Version 4.02C1

Job Number:

Customer: Bayswater

Well Name: Thorton C-29-30HN

