



Petroshare Corporation

Brighton Lakes 20-17-2NCH

API #05-001-10089

Surface

July 22, 2019

Quote #: QUO-34334-C3T0H4

Execution #: EXC-19794-H0Y0T902



Petroshare Corporation

Attention: Mr. Greg Thorlaksen | (719) 963-0714 | gregthorlaksen@yahoo.com

Dear Mr. Greg Thorlaksen,

Thank you for the opportunity to provide cementing services on this well. BJ Services strives to achieve complete customer satisfaction. If you have any questions regarding the services or data provided, please contact BJ Services at any time.

Sincerely,
Gage Putnam
Field Engineer I | (307) 365-8254 | Gage.Putnam@bjsservices.com

Field Office 1716 East Allison Rd., Cheyenne WY, 82007
Phone: (307) 459-6487

Sales Office 999 18th St. Suite 1200 Denver, CO 80202
Phone: (281) 408-2361

BJ Cementing Treatment Report

SERVICE SUPERVISOR	Eric Dewit	CLIENT FIELD REPRESENTATIVE	Greg
DISTRICT	Cheyenne, WY	COUNTY	ADAMS
SERVICE	Cementing	STATE / PROVINCE	CO

WELL GEOMETRY

TYPE	ID (in)	OD (in)	WEIGHT (lb/ft)	MD (ft)	TVD (ft)	EXCESS (%)	GRADE	THREAD
Casing	8.92	9.63	36.00	1,869.00	1,869.00			
Open Hole	13.50	0.00	0.00	1,869.00	1,869.00	15.00	J-55	LTC

HARDWARE

Bottom Plug Used?	Yes	Landing Collar Depth (ft)	1,827
Bottom Plug Provided By	Non BJ	Tool Type	Float Collar
Bottom Plug Size	9.625	Tool Depth (ft)	1,845.00
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	2816.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	1500.00
Top Plug Size	9.625	Pipe Movement	None
Centralizers Used	No	Job Pumped Through	Manifold
Centralizers Quantity	12.00	Top Connection Thread	LTC
Centralizers Type	Bow	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Lost Circulation Prior to Cement Job	No
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	20.00	Flare Prior to / during the Cement Job	No
Circulation Rate (bpm)	5.00	Gas Present	No
Circulation Volume (bbls)	100.00		

TEMPERATURE

Ambient Temperature (°F)	68.00	Slurry Cement Temperature (°F)	68.00
Mix Water Temperature (°F)	65.00		

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Start Date: 7/22/2019

End Date: 7/22/2019



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	Water	8.3337			0.00				20.0000
Lead Slurry	BJCem S100.03.1C	12.0000	2.5298	14.86	0.00	1,450.00	320	810.0000	144.2000
Tail Slurry	BJCem S100.03.1C	12.5000	2.2255	12.59	1,450.00	500.00	135	299.0000	53.2000
Displacement Final	Water	8.3337			0.00			0.0000	147.5000

FLUID TYPE	FLUID NAME	COMPONENT	CONCENTRATION	UOM
Spacer / Pre Flush / Flush	Water	Fresh Water	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Lead Slurry	BJCem S100.03.1C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem S100.03.1C	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.03.1C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.03.1C	IntegraSeal POLI	0.1300	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	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.03.1C	IntegraSeal POLI	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, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.03.1C	Cement Additive, Sodium Metasilicate A-2	2.0000	LBS/SK
Displacement Final	Water	Fresh Water	100.0000	PCT

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amt of Cement Returned / Reversed	5.00
Calculated Displacement Vol (bbls)	143.00	Method Used to Verify Returns	Visual
Actual Displacement Vol (bbls)	143.00	Amt of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amt Bled Back After Job	0.50
Bump Plug Pressure (psi)	1045.00	Total Volume Pumped (bbls)	361.00
Were Returns Planned at Surface	No	Top Out Cement Spotted	No
Cement Returns During Job	Full	Lost Circulation During Cement Job	No

Client: Petroshare Corporation

Well: Brighton Lakes 20-17-2NCH

Well API: 05-001-10089

Start Date: 7/22/2019

End Date: 7/22/2019



BJ Cementing Event Log

Surface - Cheyenne, WY - Eric Dewit

SEQ	START DATE / TIME	EVENT	DENSITY (ppg)	PUMP RATE (bpm)	PUMP VOL (bbls)	PIPE PRESSURE (psi)	COMMENTS
1	07/21/2019 22:00	Callout					Customer calls with an RTS of 22:00 7/22/19
2	07/21/2019 22:00	Depart for Location					Get ready to travel to location
3	07/22/2019 00:30	Arrive on Location					Arrive on location (rig is RIH with surface casing)
4	07/22/2019 02:30	Rig					Waiting on the rig to finish RIH
5	07/22/2019 04:45	STEACS Briefing					Pre-rig up safety meeting with BJ crew
6	07/22/2019 05:00	Rig Up					Rig up water, and bulk, and high pressure treating lines
7	07/22/2019 05:40	Rig Up					Rig up cement head
8	07/22/2019 05:53	STEACS Briefing					Pre-job safety meeting with BJ crew, rig crew, and company man
9	07/22/2019 06:03	Other (See comment)	8.3400	2.80	2.00	200.00	Load pumps and lines with 2 bbls of fresh water
10	07/22/2019 06:04	Pressure Test	8.3400	0.00	0.00	2590.00	Pressure test pumps and lines
11	07/22/2019 06:09	Pump Spacer	8.3400	4.40	20.00	200.00	Pump 20 bbls of fresh water ahead
12	07/22/2019 06:13	Pump Lead Cement	12.0000	5.70	144.00	319.00	Pump 320 sks of lead cement @12 ppg
13	07/22/2019 06:40	Pump Tail Cement	12.5000	5.70	53.00	175.00	Pump 135 sks of tail cement @12.5 ppg
14	07/22/2019 06:54	Drop Top Plug					Drop the top plug
15	07/22/2019 06:55	Pump Displacement	8.3400	2.80	0.00	50.00	Send plug, start fresh water displacement
16	07/22/2019 06:56	Other (See comment)	8.3400	0.00	0.00	0.00	Shut down to verify the plug left the head (the wire broke as plug was leaving the head)
17	07/22/2019 07:02	Pump Displacement	8.3400	5.70	1.00	89.00	Start pumping displacement again
18	07/22/2019 07:12	Pump Displacement	8.3400	5.70	50.00	200.00	Displacement
19	07/22/2019 07:24	Other (See comment)	8.3400	2.80	122.00	400.00	Drop rate to land the plug
20	07/22/2019 07:30	Cement Back-to-Surface	8.3400	2.80	137.00	450.00	Start getting good cement to surface
21	07/22/2019 07:32	Land Plug	8.3400	2.80	142.00	1045.00	Land plug with 468 psi, bump up to 1045 (5 bbls of cement to surface)
22	07/22/2019 07:34	Check Floats	8.3400	0.00	0.00	0.00	Check floats (floats held) .5 back

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Well Name/API: Brighton Lakes 20-17-2NCH / Well MD: 1869
05-001-10089



Quote #: QUO-34334-C3T0H4

Plan #: ORD-19794-H0Y0T9

Execution #: EXC-19794-H0Y0T902

23	07/22/2019 07:35	STEACS Briefing					Pre-rig down safety meeting with BJ crew
24	07/22/2019 07:39	Rig Down					Rig down floor, water, and high pressure treating line
25	07/22/2019 08:30	Leave Location					Leave location to travel back to the yard



JobMaster Program Version 4.02C1
Job Number: 16984
Customer: Petroshare
Well Name: Brighton Lakes 20-17-2NCH

3rd Surface (CPF-136)

