Petroshare Corporation
SURFACE POST JOB REPORT

Shook 3-10-3NBH 05-001-09977
S:3 T:1S R:67W Adams CO

CallSheet #: 727
Proposal #: 13164

SURFACE Post Job Report

Attention: Mr. Bill Lloyd | (303) 500-1160 | blloyd@petroshare.com
Petroshare Corporation
9635 Maroon Circle, Ste 400 | Englewood, CO 80112

Dear Mr. Lloyd,

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,

Oscar Medrano
Technical Specialist-II | (307) 996-6222 | Oscar.Medrano@bjservices.com

Field Office	1716 East Allison Rd., Cheyenne WY, 82007 Phone: (307) 638-5585
Sales Office	475 17th St. Suite 460 Denver Co., 80202 Phone: (303) 296-1158

Table of Contents

1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Inner	9.625	8.921	36	LTC	0	1800	0
Casing	Outer	16	15.25	65	n/a	0	40	0
Open Hole	Outer	n/a	13.5	n/a	n/a	40	1800	15

1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Cement Pump	PPC11250		176
Light Duty Pickups	3	Dewit, Eric	176
Bulk Trailer	508	Mellon, Zacahria	176
Bulk Trailer	509	Scott, Matthew	176

1.3 Timing

Event	Date/Time
Call Out	4/16/2017 17:00
Depart Facility	4/16/2017 17:00
On Location	4/16/2017 17:30
Rig Up Iron	4/16/2017 22:05
Job Started	4/16/2017 22:37
Job Completed	4/17/2017 00:13
Rig Down Iron	4/17/2017 00:35
Depart Location	4/17/2017 01:15

1.4 General Job Information

Metrics	Value
Well Fluid Density	8.4 lb/gal
Well Fluid Type	Water
Rig Circulation Vol	150 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	136.9 bbls
Actual Displacement	136.9 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	17 bbls
Well Topped Out	No

1.5 Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	8.4 lb/gal
Well Fluid Density Out of Well	8.4 lb/gal

1.6 Job Details (cont.)

Metrics	Value
BHCT	95 °F
BHST	120 °F

1.7 Circulation

Lost Circulation Experienced
No

1.8 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft^3/sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Top (ft)
1	1	Water	Flush	8.33			42.00		20.00	0
1	2	ALTCem S100-12	Lead	12.00	2.53	14.85		293.00	131.84	0
1	3	ALTCem S100-12	Tail	12.50	2.22	12.58		135.00	53.46	1300
1	4	Water	DisplacementFinal	8.33			42.00		136.00	0

1.9 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Lead	ALTCem S100-12	AC3-10	Cement	100.00	%
1	2	Lead	ALTCem S100-12	ACL-10	Accelerator	2.00	lb/sk
1	2	Lead	ALTCem S100-12	ACL-20	Accelerator	5.00	%BWOB
1	2	Lead	ALTCem S100-12	ADF-11	Defoamer	0.30	%BWOB
1	2	Lead	ALTCem S100-12	ALC-10	LostCirculation	0.13	lb/sk
1	2	Lead	ALTCem S100-12	AXE-30	Extender	2.00	lb/sk
1	3	Tail	ALTCem S100-12	AC3-10	Cement	100.00	%
1	3	Tail	ALTCem S100-12	ACL-10	Accelerator	2.00	lb/sk
1	3	Tail	ALTCem S100-12	ACL-20	Accelerator	5.00	%BWOB
1	3	Tail	ALTCem S100-12	ADF-11	Defoamer	0.30	%BWOB
1	3	Tail	ALTCem S100-12	ALC-10	LostCirculation	0.13	lb/sk
1	3	Tail	ALTCem S100-12	AXE-30	Extender	2.00	lb/sk

2 Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Customer call out	4/16/2017	17:00					Customer calls with an RTS of 21:00
2	Arrive on location	4/16/2017	17:30					Bulk trucks arrive on location, Pump already here
3	Spot trucks	4/16/2017	21:51					Spot trucks
4	Safety meeting	4/16/2017	22:00					Pre-rig up safety meeting
5	Rig up	4/16/2017	22:05					Rig up bulk, water, and high pressure lines
6	Safety meeting	4/16/2017	22:15					Pre-job safety meeting with company man, and rig crew
7	Rig up	4/16/2017	22:20					Rig up cement head
8	Load lines	4/16/2017	22:37	8.34	3.2	3	52	Load pumps and lines, send bottom plug
9	Pressure test	4/16/2017	22:40	8.34	0	0	4000	Pressure test pumps and lines
10	Pump spacer	4/16/2017	22:43	8.34	4.4	20	155	Pump fresh water + dye spacer
11	Lead cement	4/16/2017	22:48	12	5.8	131	174	Pump 293 sacks of lead cement @12 ppg (Yield - 2.53, Mix water - 14.85)
12	Tail cement	4/16/2017	23:13	12.5	5	53	93	Pump 135 sacks of tail cement @12.5 ppg (Yield - 2.22, Mix water - 12.58)
13	Shut down	4/16/2017	23:30					Shut down drop top plug
14	Displacement	4/16/2017	23:31	8.34	6.5	0	52	Send top plug start fresh water displacement
15	Displacement	4/16/2017	23:40	8.34	7.1	50	159	Fresh water displacement
16	Spacer back	4/16/2017	23:47	8.34	6.7	100	490	Start getting dye to surface
17	Cement to surface	4/16/2017	23:51	8.34	2.5	120	497	Drop pump rate start getting good cement to surface
18	Land plug	4/16/2017	23:57	8.34	2.5	137	1161	Land plug @534 psi, bump it up to 1161
19	Casing test	4/16/2017	23:58	8.34	0	0	1515	Start casing test
20	Check floats	4/17/2017	00:13	8.34	0	0	0	Bleed off pressure, check floats (floats held) 1 bbl back
21	Safety meeting	4/17/2017	00:30					Pre-rig down safety meeting
22	Rig down	4/17/2017	00:35					Rig everything down
23	Leave location	4/17/2017	01:15					Bulk trucks leave location to get loaded for next surface

3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	51 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	400	0-1000
Total Hardness	>250 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<500 mg/L	0-1500 mg/L
Potassium	200 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

4 Pump Diagrams