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# **Petroshare Corporation**

## **SURFACE POST JOB REPORT**

**Shook 3-10-2NBH 05-001-09971**  
**S:3 T:1S R:67W Adams CO**

CallSheet #: 714  
Proposal #: 13171



**SURFACE Post Job Report**

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

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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,

**Zen Keith**

Technical Specialist-II | (307) 757-7178 | Zen.Keith@bjservices.com

**Field Office**      1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

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## 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	1839	0
Casing	Outer	16	15.25	65	n/a	0	40	0
Open Hole	Outer	n/a	13.5	n/a	n/a	40	1836	15

### 1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Cement Pump	PPC11250	Scott, Matthew	196
Light Duty Pickups	3	Dewit, Eric	196
Bulk Trailer	509	Mellon, Zacahria	196
Bulk Trailer	508		196

### 1.3 Timing

Event	Date/Time
Call Out	4/13/2017 07:30
Depart Facility	4/13/2017 08:45
On Location	4/13/2017 10:25
Rig Up Iron	4/13/2017 10:45
Job Started	4/13/2017 12:01
Job Completed	4/13/2017 13:30
Rig Down Iron	4/13/2017 13:45
Depart Location	4/13/2017 14:30

### 1.4 General Job Information

Metrics	Value
Well Fluid Density	8.34 lb/gal
Well Fluid Type	Water
Rig Circulation Vol	150 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	139 bbls
Actual Displacement	139 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	24 bbls
Well Topped Out	No
Top Out Volume	0 bbls

### 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 <sup>3</sup> /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	4/13/2017	07:30					Customer calls with an RTS of 10:30
2	Leave yard	4/13/2017	08:45					Leave yard
3	Arrive on location	4/13/2017	10:25					Arrive on location (rig running in the hole with casing)
4	Spot trucks	4/13/2017	10:35					Spot trucks
5	Safety meeting	4/13/2017	10:40					Pre-rig up safety meeting
6	Rig up	4/13/2017	10:45					Rig up bulk, water, and high pressure line
7	Safety meeting	4/13/2017	11:30					Pre-job safety meeting with company man and rig crew
8	Rig up	4/13/2017	11:45					Rig up head
9	Load lines	4/13/2017	12:01	8.34	4	3	61	Load pumps and lines, and send bottom plug
10	Pressure test	4/13/2017	12:02	8.34			3651	Pressure test pumps and lines
11	Pump spacer	4/13/2017	12:06	8.34	5.2	20	94	Pump 20 bbls of fresh water + Dye
12	Lead cement	4/13/2017	12:12	12	6.3	131	227	Pump 293 sacks of lead cement @12 ppg
13	Tail cement	4/13/2017	12:33	12.5	6.3	53	248	Pump 135 sacks of tail cement @12.5 ppg
14	Release plug	4/13/2017	12:45					Shut down release bottom plug
15	Displacement	4/13/2017	12:48	8.34	7.2	0	80	Send plug start fresh water displacement
16	Displacement	4/13/2017	12:57	8.34	6.8	50	163	Fresh water displacement
17	Dye to surface	4/13/2017	13:03	8.34	6.6	95	401	Start getting spacer to surface
18	Cement to surface	4/13/2017	13:06	8.34	6.6	115	504	Start getting good cement to surface
19	Drop rate	4/13/2017	13:08	8.34	2.5	125	425	Drop rate
20	Land plug	4/13/2017	13:13	8.34	2.5	139	1181	Land plug @463 psi, Bumped it up to 1181 psi (24 bbls of cement to surface)
21	Casing test	4/13/2017	13:15	8.34			1503	Start casing test
22	Check floats	4/13/2017	13:30	8.34				Bleed off check floats (floats held) 1 bbl back
23	Safety meeting	4/13/2017	13:40					Pre-rig down safety meeting
24	Rig down	4/13/2017	13:45					Rig everything down
25	Leave location	4/13/2017	14:30					Bulk trucks leave location to get loaded for the next surface, pump staying on location

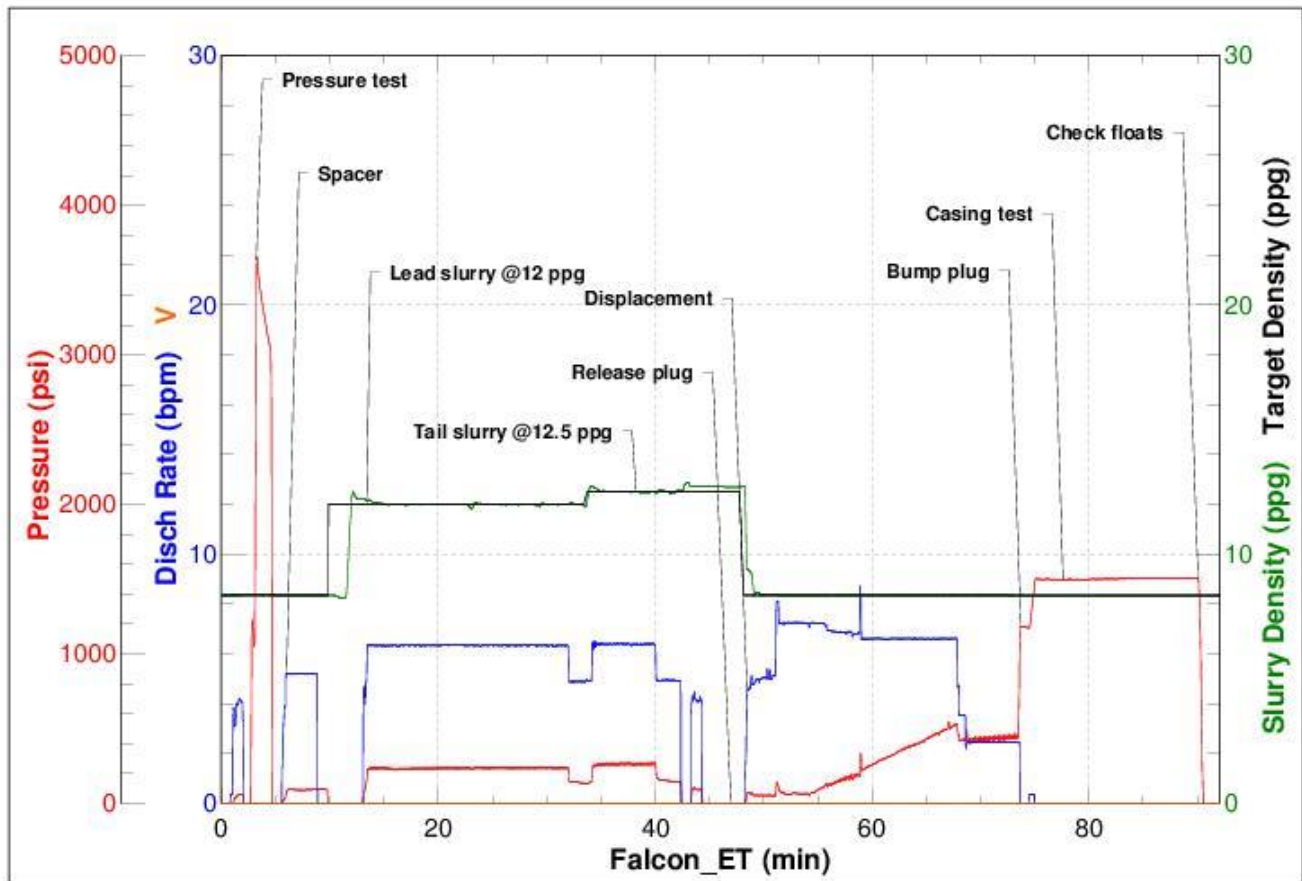


### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	53 °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

Job Number: 714  
Customer: Petro Share  
Well Name: Shook 3-10-2NBH



Job Start: Thursday, April 13, 2017