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# **Petroshare Corporation**

## **SURFACE POST JOB REPORT**

Shook 3-10-3CDH 05-001-09969  
S:3 T:1S R:67W Adams CO

CallSheet #: 717  
Proposal #: 13161



**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	1836	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
Bulk Trailer	E467	Mellon, Zacahria	176
Bulk Trailer	E421		176
Cement Pump	PPC11250	Scott, Matthew	176
Light Duty Pickups	3	Dewit, Eric	176

### 1.3 Timing

Event	Date/Time
Call Out	4/13/2017 22:30
Depart Facility	4/13/2017 23:30
On Location	4/14/2017 02:30
Rig Up Iron	4/14/2017 05:33
Job Started	4/14/2017 06:28
Job Completed	4/14/2017 07:50
Rig Down Iron	4/14/2017 08:10
Depart Location	4/14/2017 08:50

### 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	135.25 bbls
Actual Displacement	138 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	18 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	22:30					Customer calls with an RTS of 2:30, Bulk trucks and pump already on location
2	Spot trucks	4/14/2017	05:20					Spot trucks
3	Safety meeting	4/14/2017	05:25					Pre-rig up safety meeting
4	Rig up	4/14/2017	05:33					Rig up bulk lines, water lines, and high pressure line
5	Safety meeting	4/14/2017	06:04					Pre-job safety meeting with company man, and rig crew
6	Rig up	4/14/2017	06:15					Rig up head
7	Load lines	4/14/2017	06:28	8.34	3	3	57	Load pumps and lines, and send bottom plug
8	Pressure test	4/14/2017	06:30	8.34	0	0	3742	Pressure test pumps and lines
9	Pump spacer	4/14/2017	06:32	8.34	4.5	20	157	Pump fresh water + dye spacer
10	Lead cement	4/14/2017	06:39	12	6.5	131	259	Pump 293 sacks of lead cement @12 ppg (Yield-2.53, Mix water-14.58)
11	Tail cement	4/14/2017	07:01	12.5	5.3	53	98	Pump 135 sacks of tail cement @12.5 ppg (Yield-2.22, Mix water-12.58)
12	Drop plug	4/14/2017	07:18					Drop top plug
13	Displacement	4/14/2017	07:20	8.34	6.5	0	149	Send plug, start fresh water displacement
14	Displacement	4/14/2017	07:29	8.34	6.8	50	193	Fresh water displacement
15	Spacer to surface	4/14/2017	07:38	8.34	6.3	107	481	Spacer to surface
16	Cement to surface	4/14/2017	07:40	8.34	2.5	120	440	Cement to surface, Drop rate
17	Shut down	4/14/2017	07:47	8.34		138		Shut down did not bump the plug, pumped 2.5 bls over calculated
18	Check floats	4/14/2017	07:50	8.34				Check floats (floats held) .5 bbls back
19	Safety meeting	4/14/2017	08:05					Pre-rig down safety meeting
20	Rig down	4/14/2017	08:10					Rig everything down
21	Leave location	4/14/2017	08:50					Bulk trucks leave location to back to the yard to get loaded for the next surface, pump staying on location

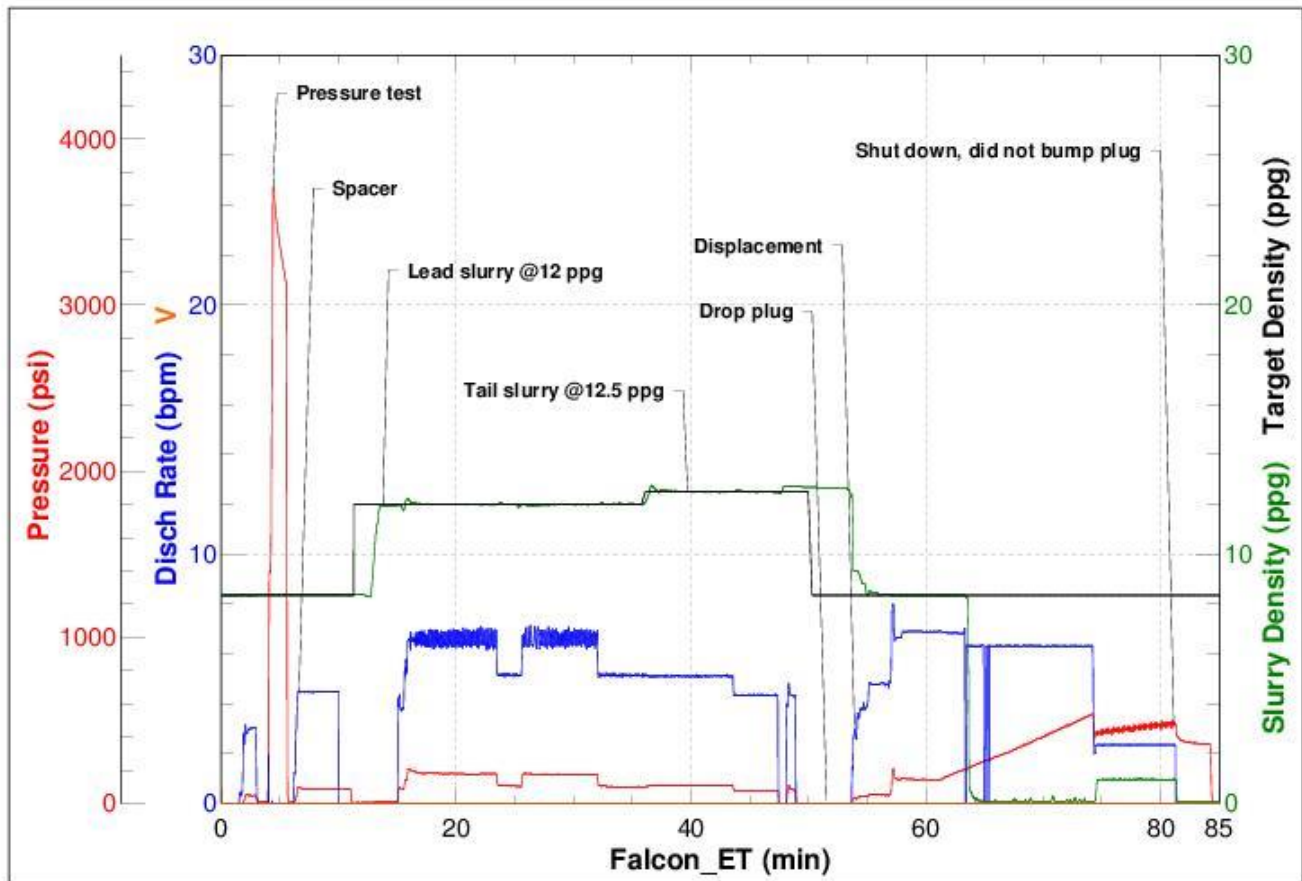


### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	52 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	300	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: 717  
Customer: Petro Share  
Well Name: Shook 3-10-3CDH



Job Start: Friday, April 14, 2017