



Petroshare Corporation

PRODUCTION POST JOB REPORT

Shook 3-10-1NCH 05-001-09975
S:3 T:1S R:67W Adams CO

CallSheet #: 916
Proposal #: 13287



PRODUCTION 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,

Jacob Ojeda

Field Engineer | (763) 516-3012 | Jacob.Ojeda@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	Outer	9.625	8.921	36	n/a	0	1800	0
Open Hole	Outer	n/a	8.5	n/a	n/a	1800	12889	15
Casing	Inner	5.5	4.778	20	n/a	0	12889	0

1.2 Equipment / People

Unit Type	Unit	Employee #1	Employee #2	Mileage
Bulk Trailer	502	Garcia, Anthony		200
Silo	654			200
Silo	664			200
Cement Pump	103	Seghetti, Joshua	Cook, John	200
Light Duty Pickups	4	Hyde, Andrew		200

1.3 Timing

Event	Date/Time
Call Out	6/16/2017 05:30
Depart Facility	6/16/2017 07:30
On Location	6/16/2017 09:30
Rig Up Iron	6/16/2017 10:00
Job Started	6/16/2017 14:53
Job Completed	6/16/2017 17:45
Rig Down Iron	6/16/2017 18:00
Depart Location	6/16/2017 19:30

1.4 General Job Information

Metrics	Value
Well Fluid Density	10.6 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	450 bbls
Rig Circulation Time	1.5 hours
Calculated Displacement	284 bbls
Actual Displacement	282 bbls
Total Spacer to Surface	40 bbls
Total CMT to Surface	10 bbls

1.5 Well Fluid Details

Metrics	Value
Plastic Viscosity	33
Yield Point	5
10 sec. SGS	8
10 min. SGS	20
30 min. SGS	28
Filtrate	10
Flow Line Temp.	168

1.6 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	10.6 lb/gal
Well Fluid Density Out of Well	10.6 lb/gal

1.7 Job Details (cont.)

Metrics	Value
BHCT	236 °F
BHST	236 °F



1.8 Circulation

Lost Circulation Experienced
No

1.9 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	CD Spacer	Spacer	11.00			32.73		40.00	0
1	2	ALTCem P100-X2	Lead	12.50	2.07	11.81		989.00	364.70	0
1	3	ALTCem P50-X1	Tail	13.50	1.47	7.43		930.00	244.25	7727
1	4	Water	DisplacementFinal	8.33			42.00		286.00	0

1.10 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	1	Spacer	CD Spacer	ASR-20	StrengthRetrogression	179.68	lb/bbl
1	1	Spacer	CD Spacer	AR-31	Retarder	0.79	lb/bbl
1	1	Spacer	CD Spacer	ASF-20	Surfactant	0.50	gal/bbl
1	1	Spacer	CD Spacer	ASF-80	Surfactant	0.50	gal/bbl
1	1	Spacer	CD Spacer	AVS-10	Viscosifier	0.80	lb/bbl
1	2	Lead	ALTCem P100-X2	AC3-10	Cement	100.00	%
1	2	Lead	ALTCem P100-X2	ABX-30	BondEnhancer	0.40	%BWOB
1	2	Lead	ALTCem P100-X2	ADF-11	Defoamer	0.30	%BWOB
1	2	Lead	ALTCem P100-X2	AFL-10	FluidLoss	0.30	%BWOB
1	2	Lead	ALTCem P100-X2	AR-31	Retarder	0.20	%BWOB
1	2	Lead	ALTCem P100-X2	AVS-10	Viscosifier	0.10	%BWOB
1	3	Tail	ALTCem P50-X1	ACG-10	Cement	50.00	%
1	3	Tail	ALTCem P50-X1	AFA-10	Extender	50.00	%
1	3	Tail	ALTCem P50-X1	ADF-11	Defoamer	0.30	%BWOB
1	3	Tail	ALTCem P50-X1	AFL-50	FluidLoss	0.20	%BWOB
1	3	Tail	ALTCem P50-X1	AR-20	Retarder	0.10	%BWOB
1	3	Tail	ALTCem P50-X1	AVS-10	Viscosifier	0.10	%BWOB
1	3	Tail	ALTCem P50-X1	AVS-50	Viscosifier	2.00	%BWOB

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	Call Out	6/16/2017	05:30					BJ crew gets called out and requested on location at 10:00
2	Safety Meeting	6/16/2017	07:00					BJ crew talks about the hazards of driving to location
3	Depart Yard	6/16/2017	07:30					BJ crew leaves yard
4	Arrive On Location	6/16/2017	09:30					BJ crew arrives on location
5	Safety Meeting	6/16/2017	09:45					BJ crew talks about the hazards of spotting in equipment and rigging up
6	Rig Up	6/16/2017	10:00					Rig up
7	Waiting	6/16/2017	12:00					Wait for casing crew to finish running casing
8	Safety Meeting	6/16/2017	14:00					BJ and rig crew talk about the hazards of pumping the job
9	Fill Lines	6/16/2017	14:53	8.33	2	3	250	Pump 3 bbls of water
10	Pressure Test	6/16/2017	14:55					Pressure test pumps and lines to 5000 psi
11	Pump Spacer	6/16/2017	14:58	11	4	40	500	Pump 40 bbls of CD spacer at 11 ppg
12	Pump Lead Cement	6/16/2017	15:10	12.5	6	364	395	Mix up and pump 989 sks of ALTCem P100-X2 Lead cement @ 12.5 ppg, yield 2.07, 11.81 gal/sk, 364 bbls
13	Pump Tail Cement	6/16/2017	16:03	13.5	6	244	381	Mix up and pump 930 sks of ALTCem P50-X1 tail cement @ 13.5 ppg, yield 1.47, 7.43 gal/sk, 244 bbls
14	Shutdown	6/16/2017	16:42					Shutdown to line out manifold to wash pumps and lines
15	Wash Pumps And Lines	6/16/2017	16:45					Wash pumps and lines to 3-sided tank
16	Drop Top Plug	6/16/2017	16:54					Company man witness plug leave manifold
17	Pump Displacement	6/16/2017	16:57	8.33	8	264	1950	Pump 284 bbls of water displacement
18	Slow Rate	6/16/2017	17:36	8.33	2	20	2200	Slow rate the last 20 bbls to 2 bpm to bump plug
19	Bump Plug	6/16/2017	17:42					Bump plug at 2250 psi, took it up to 3000 psi
20	Check Floats	6/16/2017	17:45					Got 3 bbls back to the truck
21	Safety Meeting	6/16/2017	17:50					BJ crew talks about the hazards of rigging down
22	Rig Down	6/16/2017	18:00					Rig down
23	Depart Location	6/16/2017	19:29					Depart location
24	Other	6/16/2017	19:30					Estimated top of at 6956 ft, got 10 bbls cement to surface



3 Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	65 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	72 mg/L	0-3000 mg/L
Total Alkalinity	120	0-1000
Total Hardness	300 mg/L	0-500 mg/L
Carbonates	140 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	300 mg/L	0-3000 mg/L
Iron	7 mg/L	0-300 mg/L

4 Pump Diagrams

