



Caerus Operating LLC

TWO-STAGE/MULTI-STAGE CEMENT POST JOB REPORT

BJU G35 FED #14D-35-496 05-045-24345
S:35 T:4S R:96W Garfield CO

CallSheet #: 81391
Proposal #: 59787



TWO-STAGE/MULTI-STAGE CEMENT Post Job Report

Attention: Mr. Cole Walton | (720) 880-6325 | cwalton@caerusoilandgas.com

Caerus Operating LLC

1001 17TH STREET | DENVER, CO 80202

Dear Mr. Cole Walton,

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

Sincerely,

Zen Keith

SME | (307) 757-7178 | zen.keith@americacementing.com

Field Office 28730 US-6, Rifle, CO 81650
Phone: (970) 657-1157

Job Details & Summary

Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	20	19.5	53	n/a	0	130	0
Open Hole	Outer	n/a	14.75	n/a	n/a	130	2500	25
Open Hole	Outer	n/a	14.75	n/a	n/a	2500	3056	0
Casing	Inner	9.625	8.921	36	n/a	0	3035.8	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2
Field Storage Silo	FSS(CTS)-469			
Field Storage Silo	FSS(CTS)-468			
AS Cement Trailer Float	CTF-048	TRC(TRB)-115		
AS Cement Trailer Float	CTF-138	TRC(TRB)-195		
Cement Trailer Float	CTF-249	TRC(TRB)-180	Bonin, Matthew	Balint, Daniel
Cement Pump Float	CPF-136	TRH-1137	Woronovitch, Collin	
Light Duty Vehicles	LDV-061		Aden, Mark	

Timing

Event	Date/Time
Call Out	5/7/2022 04:00
Depart Facility	5/7/2022 09:30
On Location	5/7/2022 10:55
Rig Up Iron	5/7/2022 11:15
Job Started	5/7/2022 16:35
Job Completed	5/7/2022 21:18
Rig Down Iron	5/7/2022 21:50
Depart Location	5/7/2022 23:00

General Job Information

Metrics	Value
Well Fluid Density	9.4 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	570 bbls
Rig Circulation Time	1 hours
Calculated Displacement	228 bbls
Actual Displacement	228 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	110 bbls
Well Topped Out	Yes
Top Out Volume	4.5 bbls

Job Details

Metrics	Value
Flare Prior to Job	No
Flare Prior to Job	0 units
Flare During Job	No
Flare During Job	0 units
Flare at End of Job	No
Flare at End of Job	0 units
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9.4 lb/gal
Well Fluid Density Out of Well	9.4 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	90 °F
BHST	129 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	64.3 °F	50-80 °F
pH Level	7	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	240	0-1000
Total Hardness	425 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	<200 mg/L	0-1500 mg/L
Potassium	0 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced

No

Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Water	Flush	8.34			42.00		40.00	786
2	Stage-1 Lead	Lead	12.00	2.52	14.80		490.00	220.14	1050
3	Stage-1 Tail	Tail	12.50	2.23	12.56		161.00	63.94	2500
4	Water	DisplacementFinal	8.34			42.00		229.00	0
1	Water	Flush	8.34			42.00		40.00	0
2	Stage-2 Primary	Primary	12.00	2.55	14.95		379.00	172.13	0
3	Water	DisplacementFinal	8.34			42.00		82.00	0

Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Lead	Stage-1 Lead	ASTM TYPE I/II	Cement	100.00	%
2	Lead	Stage-1 Lead	A-10	Accelerator	5.00	%BWOB
2	Lead	Stage-1 Lead	A-2	Accelerator	3.00	lb/sk
2	Lead	Stage-1 Lead	FP-24	Defoamer	0.30	%BWOB
2	Lead	Stage-1 Lead	IntegraSeal PHENO	LostCirculation	0.50	lb/sk
2	Lead	Stage-1 Lead	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Lead	Stage-1 Lead	R-7C	Retarder	0.30	%BWOB
2	Lead	Stage-1 Lead	STATIC FREE	Other	0.01	lb/sk
3	Tail	Stage-1 Tail	ASTM TYPE I/II	Cement	100.00	%
3	Tail	Stage-1 Tail	A-10	Accelerator	5.00	%BWOB
3	Tail	Stage-1 Tail	A-2	Accelerator	2.00	lb/sk
3	Tail	Stage-1 Tail	A-7P	Accelerator	2.00	lb/sk
3	Tail	Stage-1 Tail	FP-24	Defoamer	0.30	%BWOB
3	Tail	Stage-1 Tail	IntegraSeal PHENO	LostCirculation	0.50	lb/sk
3	Tail	Stage-1 Tail	IntegraSeal POLI	LostCirculation	0.25	lb/sk
3	Tail	Stage-1 Tail	STATIC FREE	Other	0.01	lb/sk
2	Primary	Stage-2 Primary	ASTM TYPE I/II	Cement	100.00	%
2	Primary	Stage-2 Primary	A-10	Accelerator	5.00	%BWOB
2	Primary	Stage-2 Primary	A-2	Accelerator	3.00	lb/sk
2	Primary	Stage-2 Primary	A-7P	Accelerator	2.00	lb/sk
2	Primary	Stage-2 Primary	FP-24	Defoamer	0.30	%BWOB
2	Primary	Stage-2 Primary	IntegraSeal POLI	LostCirculation	0.25	lb/sk
2	Primary	Stage-2 Primary	STATIC FREE	Other	0.01	lb/sk

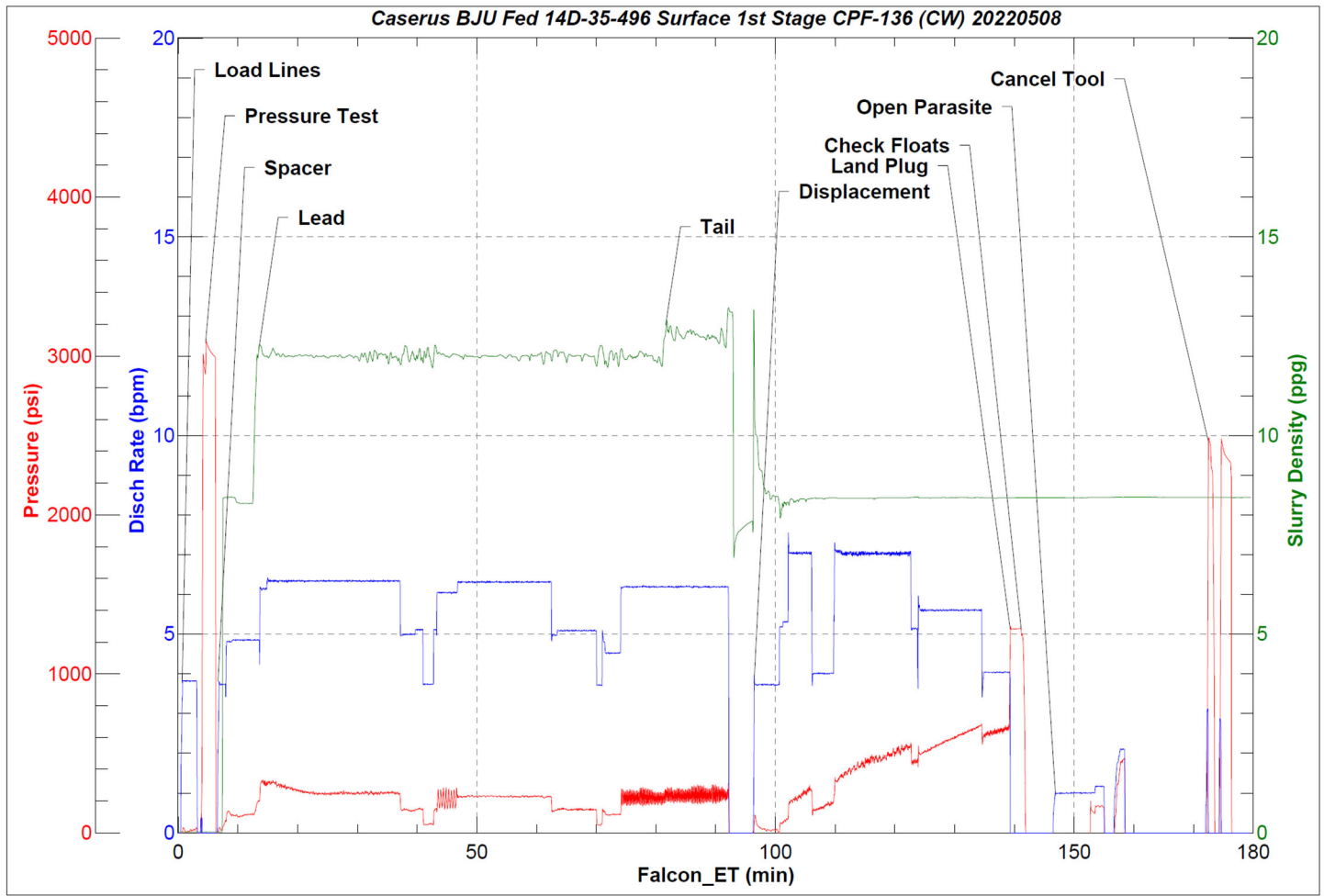
Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Callout	5/8/2022	04:00					Yard call 0800, On location 1200 05/08/2022
2	Depart For Location	5/8/2022	09:30					Leave Rifle shop for location
3	Arrive On Location	5/8/2022	10:55					Arrive on location, rig running casing
4	Spot Equipment	5/8/2022	11:00					Spot in all equipment
5	Rig Up Iron	5/8/2022	11:15					Pre rig up safety meeting, rig in all lines and equipment to the cellar
6	Waiting	5/8/2022	12:15					Waiting on rig to finish casing and circulate
7	End Circulation	5/8/2022	15:40					Rig ended circulation, circulated 1 hr; 570 bbls: Returns
8	Rig Up Iron	5/8/2022	15:50					Rig up cement head and lines in the cellar
9	Safety Meeting	5/8/2022	16:15					Safety meeting with company man and rig crew
10	Pump Spacer	5/8/2022	16:36	8.34	4	10	79	Pumping fresh water spacer, Returns
11	Pressure Test Lines	5/8/2022	16:38				3000	Pressure test lines
12	Pump Spacer	5/8/2022	16:41	8.34	5	30	110	Pumping fresh water spacer
13	Pump Lead Cement	5/8/2022	16:48	12	5	0	247	Pumping lead cement, slurry temp 62.8 F, Returns
14	Pump Lead Cement	5/8/2022	16:56	12	6.5	50	266	Pumping lead cement
15	Pump Lead Cement	5/8/2022	17:05	12	6.5	100	270	Pumping lead cement
16	Pump Lead Cement	5/8/2022	17:12	12	6.5	150	268	Pumping lead cement
17	Pump Lead Cement	5/8/2022	17:22	12	6	200	192	Pumping lead cement
18	Pump Lead Cement	5/8/2022	17:29	12	6.5	250	258	Pumping lead cement
19	Pump Lead Cement	5/8/2022	17:37	12	6.5	300	258	Pumping lead cement
20	Pump Lead Cement	5/8/2022	17:47	12	4.5	350	128	Pumping lead cement
21	Pump Lead Cement	5/8/2022	17:56	12	6.5	392	245	Pumping lead cement
22	Pump Tail Cement	5/8/2022	17:56	12.5	6.5	0	270	Pumping tail cement, slurry temp 63.4 F, Returns
23	Pump Tail Cement	5/8/2022	18:05	12.5	6.5	50	318	Pumping tail cement
24	Pump Tail Cement	5/8/2022	18:07	12.5	6.5	64	276	Pumping tail cement
25	Drop Top Plug	5/8/2022	18:10					Dropped top plug, verified by company man and tool hand
26	Pump Displacement	5/8/2022	18:11	8.34	4	0	107	Pumping fresh water displacement, Returns
27	Pump Displacement	5/8/2022	18:21	8.34	7	50	307	Pumping fresh water displacement
28	Pump Displacement	5/8/2022	18:30	8.34	7	100	470	Pumping fresh water displacement; Cement to surface at 118 bbls. 110 bbls to surface.
29	Pump Displacement	5/8/2022	18:38	8.34	7	150	579	Pumping fresh water displacement
30	Pump Displacement	5/8/2022	18:47	8.34	5.5	200	675	Pumping fresh water displacement
31	Pump Displacement	5/8/2022	18:55	8.34	4	228	705	Pumping fresh water displacement
32	Land Plug	5/8/2022	18:55			1325		Land plug, FCP 705 PSI bumped to 1325 PSI
33	Check Floats	5/8/2022	18:57					Bled pressure, floats held, 1 BBL bled back
34	Open parasite	5/8/2022	19:01	8.34		10		Pumping sugar water down parasite line. Pressure broke over @ 236 PSI
35	Drop Cancellation Plug	5/8/2022	19:16					Drop DV Tool cancellation plug
36	Waiting	5/8/2022	19:16					Waiting for Plug to fall
37	Other	5/8/2022	19:28	8.34				Pumping against cancellation tool to close. Closed @ 2485 PSI, Re-pressured at 2446 PSI
38	Pump Top Out	5/8/2022	20:55	15.8		4.5		Top Out well at 15.8 lb/g; Cement to surface at 4.5 bbls.
39	Rig Down	5/8/2022	21:50					Rig down cellar
40	Leave location	5/8/2022	23:00					Leave location for Rifle Yard

Pump Diagrams

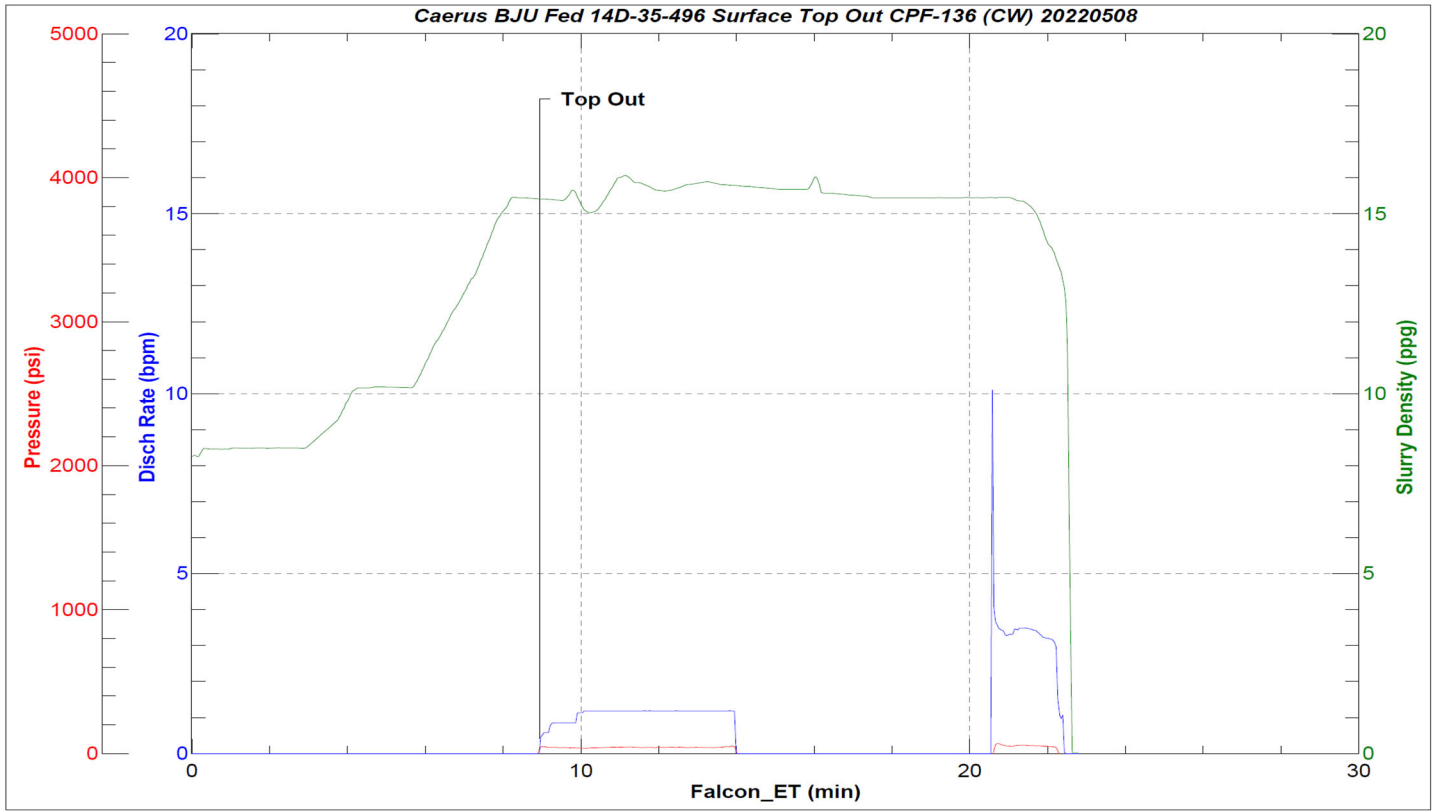


JobMaster Program Version 5.01C1
Job Number: 81391
Customer: Caerus
Well Name: BJU Fed 14D-35-496



Job Start: Sunday, May 08, 2022

Job Chart



Job Start: Sunday, May 08, 2022

Top-Out