



Caerus Operating LLC TWO-STAGE/MULTI-STAGE CEMENT POST JOB REPORT (PUMPED AS SINGLE STAGE)

**BJU G35 FED 23B-35-496 05-045-24339
S:35 T:4S R:96W Garfield CO**

CallSheet #: 80091
Proposal #: 57659



TWO-STAGE/MULTI-STAGE CEMENT Post Job Report (PUMPED AS SINGLE STAGE)

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,

Michael Harold

Field Engineer II | (970) 773-3636 | michael.harold@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	100	0
Open Hole	Outer	n/a	14.75	n/a	n/a	100	2500	25
Open Hole	Outer	n/a	14.75	n/a	n/a	2500	3025	0
Casing	Inner	9.625	8.921	36	n/a	0	2979.8	0
DV Tool						901.5		

Timing

Event	Date/Time
Call Out	2/1/2022 10:00
Depart Facility	2/1/2022 11:45
On Location	2/1/2022 13:00
Rig Up Iron	2/1/2022 13:15
Job Started	2/1/2022 16:08
Job Completed	2/1/2022 19:15
Rig Down Iron	2/1/2022 19:30
Depart Location	2/1/2022 22:00

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Field Storage Silo	FSS(CTS)-469		
Field Storage Silo	FSS(CTS)-468		
AS Cement Trailer	CTF-019	TRC(TRB)-059	
AS Cement Trailer	CTF-9309	TRC(TRB)-112	
Cement Trailer	CTF-249	TRH(TRB)-769	
Cement Pump Float	CPF-053	TRH-959	Hale, Jason
Light Duty Vehicles	LDV-063		Castillo, Francisco

General Job Information

Metrics	Value
Well Fluid Density	8.9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	120 bbls
Rig Circulation Time	0.5 hours
Calculated Displacement	227 bbls
Actual Displacement	227 bbls
Total Spacer to Surface	40 bbls
Total CMT to Surface	132 bbls
Well Topped Out	No

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	8.9 lb/gal
Well Fluid Density Out of Well	8.9 lb/gal

Job Details (cont.)

Metrics	Value
BHCT	90 °F
BHST	129 °F

Water Analysis

Metrics	Value	Recommended
Water Source	Upright Rig Tank	
Temperature	55 °F	50-80 °F
pH Level	6	5.5-8.5
Chlorides	0 mg/L	0-3000 mg/L
Total Alkalinity	240	0-1000
Total Hardness	250 mg/L	0-500 mg/L
Carbonates	0 mg/L	0-100 mg/L
Sulfates	200 mg/L	0-1500 mg/L
Potassium	250 mg/L	0-3000 mg/L
Iron	0 mg/L	0-300 mg/L

Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
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		894.00	401.00	0
3	Stage-1 Tail	Tail	12.50	2.23	12.56		161.00	63.94	2500
4	Water	DisplacementFinal	8.34			42.00		227.00	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
4	DisplacementFinal	Water	ASTM TYPE I/II	Cement	100.00	%
4	DisplacementFinal	Water	A-10	Accelerator	5.00	%BWOB
4	DisplacementFinal	Water	A-2	Accelerator	3.00	lb/sk
4	DisplacementFinal	Water	A-7P	Accelerator	2.00	lb/sk
4	DisplacementFinal	Water	FP-24	Defoamer	0.30	%BWOB
4	DisplacementFinal	Water	IntegraSeal POLI	LostCirculation	0.25	lb/sk
4	DisplacementFinal	Water	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	2/1/2022	10:00					ON LOCATION AT 13:00 HRS
2	LEAVE YARD	2/1/2022	11:45					CREW LEAVE THE YARD
3	ON LOCATION	2/1/2022	13:00					CREW ON LOCATION
4	RIG UP	2/1/2022	13:15					RIG UP MEETING, RIG UP
5	SAFETY MEETING	2/1/2022	15:45					PRE-JOB SAFETY MEETING
6	PRESSURE TEST	2/1/2022	16:05				4000	PRESSURE TEST LINES
7	PUMP SPACER	2/1/2022	16:08	8.34	5	40	381	WATER SPACER
8	LEAD CEMENT	2/1/2022	16:15	12	5	50	423	LEAD 869 SKS/392 BBLS AT 12 PPG, 2.52 YLD, 14.8 GPS
9	LEAD CEMENT	2/1/2022	16:25	12	5	50	327	100 BBLS LEAD CEMENT PUMPED
10	LEAD CEMENT	2/1/2022	16:35	12	5	50	321	150 BBLS LEAD CEMENT PUMPED
11	LEAD CEMENT	2/1/2022	16:44	12	5	50	379	200 BBLS LEAD CEMENT PUMPED
12	LEAD CEMENT	2/1/2022	16:55	12	5	50	351	250 BBLS LEAD CEMENT PUMPED
13	LEAD CEMENT	2/1/2022	17:05	12	5	50	353	300 BBLS LEAD CEMENT PUMPED
14	LEAD CEMENT	2/1/2022	17:15	12	5	50	331	350 BBLS LEAD CEMENT PUMPED
15	LEAD CEMENT	2/1/2022	17:24	12	5	42	339	392 BBLS LEAD CEMENT PUMPED
16	TAIL CEMENT	2/1/2022	17:34	12.5	5	64	371	TAIL 161 SKS/64 BBLS AT 12.5 PPG, 2.23 YLD, 12.56 GPS, TOP OF TAIL 2,481'
17	SHUTDOWN	2/1/2022	17:49					SHUTDOWN, DROP PLUG
18	DISPLACEMENT	2/1/2022	17:52	8.34	5	50	421	DISPLACEMENT WATER
19	DISPLACEMENT	2/1/2022	18:04	8.34	4	50	483	100 BBLS DISPLACEMENT PUMPED
20	DISPLACEMENT	2/1/2022	18:17	8.34	5	50	721	150 BBLS DISPLACEMENT PUMPED
21	DISPLACEMENT	2/1/2022	18:27	8.34	5	67	851	217 BBLS DISPLACEMENT PUMPED
22	SLOW RATE	2/1/2022	18:39	8.34	3.7	10	853	SLOW RATE LAST 10 BBLS
23	LAND PLUG	2/1/2022	18:43				1340	LAND PLUG, 132 BBLS CMT TO SURFACE
24	CHECK FLOATS	2/1/2022	18:48					FLOATS HELD, 0.5 BBL FLOW BACK
25	PARASITE	2/1/2022	18:51	8.34	1	10	265	PUMP SUGAR WATER THROUGH PARASITE, BROKE AT 265 PSI
26	OTHER	2/1/2022	19:02					DROP DV TOOL CANCELATION CONE
27	CLOSE DV TOOL	2/1/2022	19:15				2400	CLOSE DV TOOL
28	RIG DOWN	2/1/2022	19:30					PICKLE AND BLOW DOWN LINES, MONITOR CEMENT LEVEL

Pump Diagrams



JobMaster Program Version 5.01C1
Job Number: 80091
Customer: CAERUS
Well Name: FED 23B-35

