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# **Caerus Operating LLC**

## **PLUG - NEW WELL POST JOB REPORT**

ELU J14 FED 11B-14-496 05-103-12386  
S:14 T:4S R:96W Rio Blanco CO

CallSheet #: 76053  
Proposal #: 51611



**PLUG - NEW WELL Post Job Report**

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

Caerus Operating LLC

1001 17TH STREET | DENVER, CO 80202

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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**

Field Engineer | (307) 757-7178 | zen.keith@americancementing.com

**Field Office**      28730 US-6, Rifle, CO 81650  
Phone: (970) 657-1187

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## 1 Job Details & Summary

### Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)	New	Burst	Collapse
Casing	Outer	9.625	8.921	36	n/a	0	2974	0			
Open Hole	Outer	n/a	8.75	n/a	n/a	2974	5763	0			
DrillPipe	Inner	5	4.276	19.5	n/a	0	5763	0			

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1	Employee #2	Mileage
Bulk Trailer	CTF-249	TRB-424	Rivas, Saul		80
Light Duty Pickups	LDV-062		Linn, Paul		80
Light Duty Trailers	LDV-3106		Diaz, Douglas	Woronovitch, Collin	80
Cement Pump	CPF-011	TRH-957	Aden, Mark		80

### Timing

Event	Date/Time
Call Out	1/30/2021 21:00
Depart Facility	1/30/2021 22:45
On Location	1/31/2021 00:00
Rig Up Iron	1/31/2021 00:30
Job Started	1/31/2021 02:01
Job Completed	1/31/2021 02:33
Rig Down Iron	1/31/2021 02:33
Depart Location	1/31/2021 03:45

### General Job Information

Metrics	Value
Well Fluid Density	11.2 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	110 bbls
Rig Circulation Time	0.2 hours
Calculated Displacement	85 bbls
Actual Displacement	80 bbls
Total Spacer to Surface	0 bbls
Total CMT to Surface	0 bbls
Well Topped Out	N/A

### 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	11.2 lb/gal
Well Fluid Density Out of Well	11.2 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	138 °F
BHST	165 °F
Initial ISIP	190 psi
Final ISIP	198 psi

### Circulation

Lost Circulation Experienced	Losses into Spacer	Losses into Cement	Losses into Displacement
Yes	0	0	0

### Circulation Details:

Lost circulation before cement job, had partial returns during cement job

### 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	8.34			42.00		20.00	4681
1	2	Cement Plug	Plug	13.50	1.50	7.27		70.00	18.65	5220
1	3	Water	Displacement	8.34			42.00		7.00	0
1	4	Mud	DisplacementFinal	8.34			42.00		86.00	0

### Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom
1	2	Plug	Cement Plug	CLASS G	Cement	50.00	%
1	2	Plug	Cement Plug	FLY ASH (POZZOLAN)	Extender	50.00	%
1	2	Plug	Cement Plug	BA-90	BondEnhancer	3.00	lb/sk
1	2	Plug	Cement Plug	BENTONITE	Viscosifier	4.00	%BWOB
1	2	Plug	Cement Plug	R-3	Retarder	0.10	%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	Callout	1/30/2021	21:00					Yard call 2100 on location ASAP. /crew temps D. Diaz 96.6, M. Aden 96.7, C. Woronowitch 96.9, S. Rivas 96.7
2	Depart For Location	1/30/2021	22:45					Leave Rifle shop for location
3	Arrive On Location	1/31/2021	00:15					Arrive on location, rig idle
4	Spot Equipment	1/31/2021	00:15					Spot in all equipment
5	Rig Up Iron	1/31/2021	00:30					Pre rig up safety meeting, rig in all lines and equipment
6	Safety Meeting	1/31/2021	01:30					Pre job safety meeting with company man and rig crew
7	Circulate Well	1/31/2021	01:45					Rig circulating well, spotty returns
8	End Circulation	1/31/2021	01:55					Rig ended circulation, circulated well 10mins @ 11BBLs/min total of 110 BBLs Top pressure 901 PSI
9	Rig Up Iron	1/31/2021	01:55					Swap lines from rig to our lines
10	Pump Spacer	1/31/2021	02:01	8.34	2	5	190	Pumping fresh water spacer, ISIP 190 PSI
11	Pressure Test Lines	1/31/2021	02:03				3000	Pressure test
12	Pump Spacer	1/31/2021	02:06	8.34	4	15	313	Pumping fresh water spacer
13	Pump Cement	1/31/2021	02:09	13.5	4	18	553	Pumping plug cement
14	Pump Spacer	1/31/2021	02:15	8.34	4	7	456	Pumping fresh water spacer
15	Shutdown	1/31/2021	02:19					Swapped lines back to rig for displacement. FISIP 198 PSI
16	Pump Displacement	1/31/2021	02:19	11.2	6.5	0	161	Rig pumping displacing with mud
17	Pump Displacement	1/31/2021	02:28	11.2	6.5	50	483	Rig pumping displacing with mud
18	Pump Displacement	1/31/2021	02:33	11.2	6.5	80	435	Rig pumping displacing with mud
19	Other	1/31/2021	02:33					Rig pulled 5 stands dry
20	Rig Down Iron	1/31/2021	02:33					Pre rig down safety meeting, rig down all lines and equipment
21	Clean Pumps and Lines	1/31/2021	02:45					Wash and winterize pumps and lines to cuttings pit
22	Depart Location	1/31/2021	03:45					Leave location for Rifle shop

### 3 Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	32 °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

### 4 Pump Diagrams



**JobMaster Program Version 5.01C1**  
Job Number: 76053  
Customer: Caerus  
Well Name: FED 11B-14



BJ Services

Job Start: Sunday, January 31, 2021