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# **Bonanza Creek Energy**

## **SURFACE POST JOB REPORT**

**PRONGHORN FEDERAL F21-J24-31HNB 05-123-51321**  
**S:30 T:5N R:61W Weld CO**

CallSheet #: 78825  
Proposal #: 55632



**SURFACE Post Job Report**

**Attention:** Adam Conry | [aconry@bonanzacrk.com](mailto:aconry@bonanzacrk.com)  
Bonanza Creek Energy  
410 17TH STREET SUITE 1400 | DENVER, CO 80202

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Dear Adam Conry,

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,

**Nick Stille**

Cement SME | (307) 286-0815 | [nick.stille@americacementing.com](mailto:nick.stille@americacementing.com)

**Field Office**      1716 E Allison Rd, Cheyenne, WY 82007  
Phone: (307) 414-0049

## Job Details & Summary

### Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Open Hole	Outer	n/a	13.5	n/a	n/a	0	1617	50
Casing	Inner	9.625	9.001	32.3	n/a	0	1563.66	0

### Timing

Event	Date/Time
Call Out	10/23/2021 03:00
Depart Facility	10/23/2021 05:00
On Location	10/23/2021 07:00
Rig Up Iron	10/23/2021 07:30
Job Started	10/23/2021 08:48
Job Completed	10/23/2021 10:08
Rig Down Iron	10/23/2021 10:30
Depart Location	10/23/2021 11:30

### Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Field Storage Silo	FSS(CTS)-450		
AS Cement Trailer Float	CTF-018	TRC(TRB)-420	Johnson, Chad
Cement Trailer Float	CTF-202	TRC(TRB)-420	Henrickson, Roy
Cement Pump Float	CPF-184	TRS-109	Webster, Jazmyn
Light Duty Vehicles	LDV-048		Fuentes, Orlando

### General Job Information

Metrics	Value
Well Fluid Density	9 lb/gal
Well Fluid Type	WBM
Rig Circulation Vol	400 bbls
Rig Circulation Time	1 hours
Calculated Displacement	117.41 bbls
Actual Displacement	117 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	57 bbls
Well Topped Out	No

### Casing Equipment

Type	Description	Qty
CENTRALIZER,9-5/8"NON-WELD	Bow Spring	16

### Job Details

Metrics	Value
Flare Prior to Job	Yes
Flare During Job	Yes
Flare at End of Job	Yes
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9 lb/gal
Well Fluid Density Out of Well	9 lb/gal

### Job Details (cont.)

Metrics	Value
BHCT	86 °F
BHST	110 °F

### Water Analysis

Metrics	Value	Recommended
Water Source	Flat Tank	
Temperature	55 °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	0 mg/L	0-500 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	Losses into Spacer	Losses into Cement	Losses into Displacement
NO	No	No	No

### Job Execution Information

Fluid	Product	Function	Density (lb/gal)	Yield (ft <sup>3</sup> /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Designed Top (ft)
1	Fresh Water	Flush	8.34			42.00		20.00	0
2	ACem S100.3.XC	Primary	14.50	1.39	6.81		858.00	212.46	0
3	Fresh Water	DisplacementFinal	8.34			42.00		117.00	0

### Job Fluid Details

Fluid	Type	Fluid	Product	Function	Conc.	Uom
2	Primary	ACem S100.3.XC	ASTM TYPE III	Cement	100.00	%
2	Primary	ACem S100.3.XC	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	Call Out	10/23/2021	03:00					ACC gets called out , requested time on location was hrs 10/23/21 0900 hrs
2	Depart Facility	10/23/2021	05:00					ACC departs facility
3	Arrive To Location	10/23/2021	07:00					ACC arrives to location rig is currently POOH and getting ready to run casing
4	Rig Up	10/23/2021	07:30					ACC spots in units and gets rigged up
5	Safety Meeting	10/23/2021	08:30					ACC had a pre job safety meeting with rig hands and OSR went over job procedure
6	Pressure Test	10/23/2021	08:48				3000	Pressure test pumps and lines to 3000 psi
7	Pump FW/Dye	10/23/2021	08:51	8.33	6	20	200	Pumped 20 bbls FW w/blue dye tracer at 6 bpm w/ 200 psi
8	Pump Primary CMT	10/23/2021	08:54	14.5	6	212.4	312	Pumped 212.40 bbls of primary cement ( 858 sks 14.5 ppg 1.39 yld 6.8 g/sk ) at 6 bpm w/ 312 psi NOTE: density was verified with mud scales
9	Shut Down	10/23/2021	09:35					Shut down pumping cement
10	Drop Top Plug	10/23/2021	09:36					Drop top plug with OSR
11	Pump FW Disp.	10/23/2021	09:37	8.33	6		206	Start pumping FW disp at 6 bpm w/ 206 psi
12	Spacer To Surface	10/23/2021	09:45	8.33	6	40	600	At 40 bbls away into FW disp got blue dye tracer back to surface at 6 bpm w/ 600 psi
13	Cement To Surface	10/23/2021	09:49	8.33	6	60	577	At 60 bbls away into FW disp got cement back to surface at 6 bpm w/ 577 psi
14	Slow Down Rate	10/23/2021	09:56	8.33	3	100	550	At 106 bbls away into FW disp slow down rate to 3 bpm w/ 550 psi
15	Land Plug	10/23/2021	10:02	8.33	3	117	890	Land plug at 123 bbls away Final Circ Pressure was 890 psi , bump plug to 1688 psi and hold 5 min
16	Check Floats	10/23/2021	10:08					Check floats got 1 bbl back
17	Rig Down	10/23/2021	10:30					ACC rigs down equipment
18	Depart Location	10/23/2021	11:30					ACC departs location
19	Other	10/23/2021	11:31			57		Total cement back to surface - 57 bbls

## Pump Diagrams

### Summary Trend

