



Bonanza Creek Energy

SURFACE POST JOB REPORT

PRONGHORN FEDERAL F11-J14-31HNB 05-123-51327
S:30 T:5N R:61W Weld CO

CallSheet #: 78811
Proposal #: 55633



SURFACE Post Job Report

Attention: Adam Conry | aconry@bonanzacrk.com
Bonanza Creek Energy
410 17TH STREET SUITE 1400 | DENVER, CO 80202

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

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	1649	50
Casing	Inner	9.625	9.001	32.3	n/a	0	1639	0

Equipment / People

Unit Type	Unit	Power Unit	Employee #1
Cement Trailer Float	CTF-338	TRC(TRB)-110	Allen, Jared
AS Cement Trailer Float	CTF-9054	TRC(TRB)-041	Clark, Cody
Cement Pump Float	CPF-184	TRS-109	Webster, Jazmyn
Light Duty Vehicles	LDV-048		Fuentes, Orlando
Field Storage Silo	FSS(CTS)-456		

Timing

Event	Date/Time
Call Out	10/22/2021 16:00
Depart Facility	10/22/2021 18:00
On Location	10/22/2021 20:00
Rig Up Iron	10/22/2021 20:30
Job Started	10/22/2021 21:45
Job Completed	10/22/2021 23:07
Rig Down Iron	10/22/2021 23:30
Depart Location	10/23/2021 00:30

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	123.37 bbls
Actual Displacement	123 bbls
Total Spacer to Surface	20 bbls
Total CMT to Surface	30 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	No
Flare During Job	No
Flare at End of Job	No
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 ³ /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		123.00	0

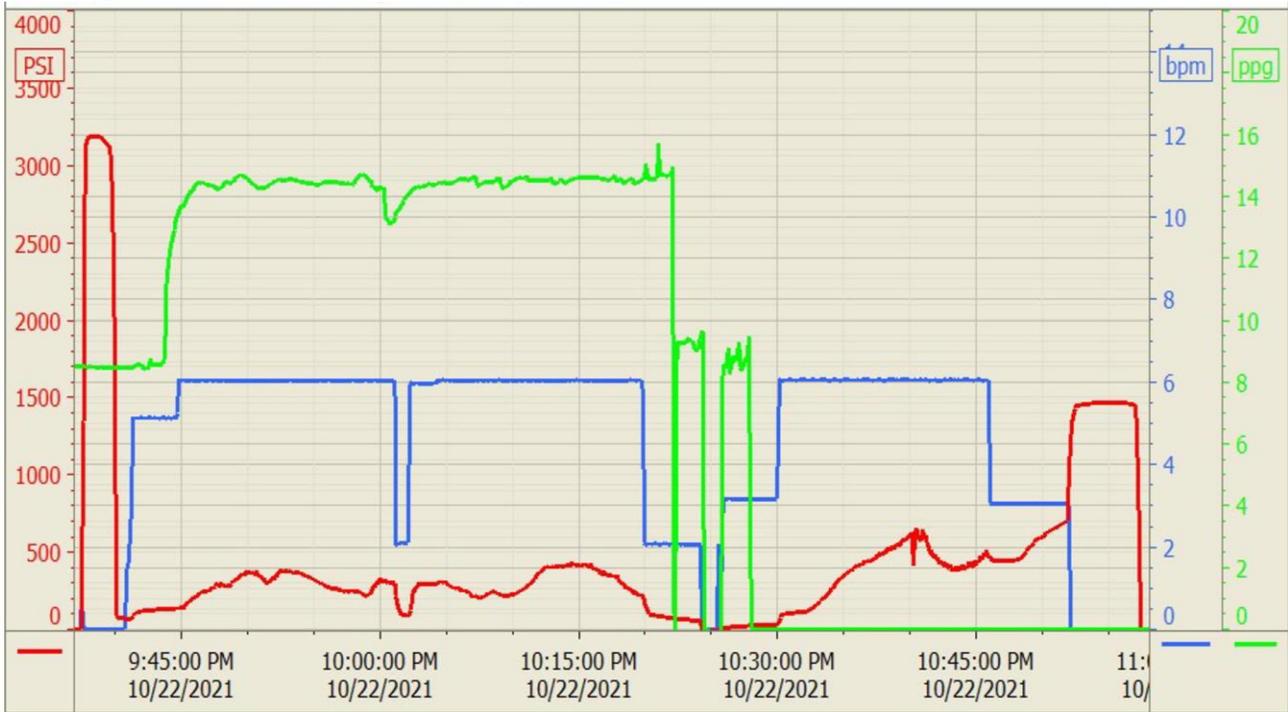
Job Fluid Details

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	10/22/2021	16:00					ACC gets called out , requested time on location was hrs 10/22/21 2200 hrs
2	Depart Facility	10/22/2021	18:00					ACC departs facility
3	Arrive To Location	10/22/2021	20:00					ACC arrives to location rig is currently POOH and getting ready to run casing
4	Rig Up	10/22/2021	20:30					ACC spots in units and gets rigged up
5	Safety Meeting	10/22/2021	21:30					ACC had a pre job safety meeting with rig hands and OSR went over job procedure
6	Pressure Test	10/22/2021	21:45				3000	Pressure test pumps and lines to 3000 psi
7	Pump FW/Dye	10/22/2021	21:50	8.33	5	20	98	Pumped 20 bbls FW w/blue dye tracer at 5 bpm w/98 psi
8	Pump Primary CMT	10/22/2021	21:55	14.5	6	212.4	329	Pumped 212.40 bbls of primary cement (858 sks 14.5 ppg 1.39 yld 6.8 g/sk) at 6 bpm w/ 329 psi NOTE: density was verified with mud scales
9	Shut Down	10/22/2021	22:33					Shut down pumping cement
10	Drop Top Plug	10/22/2021	22:34					Drop top plug with OSR
11	Pump FW Disp.	10/22/2021	22:35	8.33	6		460	Start pumping FW disp at 6 bpm w/ 460 psi
12	Spacer To Surface	10/22/2021	22:50	8.33	6	73	681	At 73 bbls away into FW disp got blue dye tracer back to surface at 6 bpm w/ 681 psi
13	Cement To Surface	10/22/2021	22:53	8.33	6	93	760	At 93 bbls away into FW disp got cement back to surface at 6 bpm w/ 760 psi
14	Slow Down Rate	10/22/2021	20:56	8.33	3	106	656	At 106 bbls away into FW disp slow down rate to 3 bpm w/ 656 psi
15	Land Plug	10/22/2021	23:01	8.33	3	123	815	Land plug at 123 bbls away Final Circ Pressure was 815 psi , bump plug to 1506 psi and hold 5 min
16	Check Floats	10/22/2021	23:07					Check floats got .75 bbl back
17	Rig Down	10/22/2021	23:30					ACC rigs down equipment
18	Depart Location	10/23/2021	00:30					ACC departs location
19	Other	10/23/2021	00:31			30		Total cement back to surface - 30 bbls

Pump Diagrams



10/22/2021 11:59:36