



# Bonanza Creek Energy

Pronghorn 24-8-5XRLNB

API # 05-123-45068

Surface

11/25/2018

Quote #: 23143

Execution #: 13404



# Bonanza Creek Energy

Attention: Mr. Adam Conry | (303) 883.3351 | [AConry@bonanzacrk.com](mailto:AConry@bonanzacrk.com)

Bonanza Creek Energy | 410 17th St Suite 1400 | Denver, CO. 80202

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Dear Mr. Adam Conry,

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

Sincerely,  
Gage Putnam  
Field Engineer I | (307) 887-4243 | [Gage.Putnam@bjservices.com](mailto:Gage.Putnam@bjservices.com)

Field Office 1716 East Allison Rd., Cheyenne WY, 82007  
Phone: (307) 638-5585

Sales Office 999 18th St. Suite 1200 Denver, CO 80202  
Phone: (281) 408-2361

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# Cementing Treatment



<b>Start Date</b>	11/24/2018	<b>Well</b>	Pronghorn 24-8-5XRLNB
<b>End Date</b>	11/25/2018	<b>API#</b>	05-123-45068
<b>Client</b>	Bonanza Creek Energy	<b>County</b>	WELD
<b>Service Sup.</b>	Hector Montoya	<b>State/Province</b>	CO
<b>District</b>	Cheyenne, WY	<b>Rig</b>	Akita 519
<b>Type of Job</b>	Surface	<b>Execution ID</b>	EXC-13404-Z5F1T502
<b>Project ID</b>	PRJ1012938		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50	0.00	0.00	1,615.00	1,615.00	30.00
Casing	8.92	9.63	36.00	1,606.00	1,615.00	

**Shoe Length (ft):** 42.00

## HARDWARE

<b>Top Plug Used?</b>	Yes	<b>Landing Collar Depth (ft)</b>	1,615
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Rated (psi)</b>	3,020.00
<b>Top Plug Size</b>	9.625	<b>Max Casing Pressure - Operated (psi)</b>	2,560.00
<b>Centralizers Used</b>	Yes	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Quantity</b>	13.00	<b>Top Connection Size</b>	9.625
<b>Centralizers Type</b>	Bow		

## CIRCULATION PRIOR TO JOB

<b>Well Circulated By</b>	Rig	<b>Mud Density Out (ppg)</b>	8.70
<b>Circulation Prior to Job</b>	Yes	<b>PV Mud In</b>	29
<b>Circulation Time (min)</b>	40.00	<b>PV Mud Out</b>	29
<b>Circulation Rate (bpm)</b>	5.00	<b>Solids Present at End of Circulation</b>	No
<b>Circulation Volume (bbls)</b>	200.00	<b>Flare Prior to/during the Cement Job</b>	No
<b>Lost Circulation Prior to Cement Job</b>	No	<b>Gas Present</b>	No
<b>Mud Density In (ppg)</b>	9.00		

## TEMPERATURE

<b>Ambient Temperature (°F)</b>	27.00	<b>Slurry Cement Temperature (°F)</b>	61.00
<b>Mix Water Temperature (°F)</b>	40.00	<b>Flow Line Temperature (°F)</b>	61.00

# Cementing Treatment



## BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water (Pre-flush)	8.3308						20.0000
Tail Slurry	BJCem S100.3.XC	14.5000	1.3902	6.81	1600	745	1,034.0000	184.1000
Displacement Final	Water	8.3300					0.0000	120.4000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	BJCem S100.3.XC	CEMENT, ASTM TYPE III	100.0000	PCT

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	Amount of Cement Returned/Reversed	37.00
Calculated Displacement Volume (bbls)	120.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	120.00	Amount of Spacer to Surface	20.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	1,500.00	Total Volume Pumped (bbls)	424.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

# EVENT LOG



**Customer Name:** Bonanza Creek Energy

**Well Name:** Pronghorn 24-8-5XRLNB

**Job Type:** Surface

**Quote ID:** QUO-23143-G4B1R5

**Plan ID:** ORD-13404-Z5F1T5

**District:** Cheyenne, WY

**Execution ID:** EXC-13404-Z5F1T502

**BJ Supervisor:** Hector Montoya

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	11/24/2018 19:00	Callout					BJ Crew gets called out
2	11/24/2018 20:00	STEACS Briefing					BJ Crew talks about the hazards of driving to location
3	11/24/2018 20:30	Arrive on Location					BJ Crew talks arrives safely
4	11/25/2018 00:00	STEACS Briefing					BJ Crew talks about the hazards of rigging up
5	11/25/2018 00:10	Rig Up					Rig Up
6	11/25/2018 01:30	STEACS Briefing					BJ Crew and Rig Crew talk about the hazards of pumping the job and discuss job procedure
7	11/25/2018 01:55	Prime Up					Fill Lines 3bbl
8	11/25/2018 01:58	Pressure Test					Pressure test to 3000psi
9	11/25/2018 02:00	Pump Spacer	8.3300	3.00	20.00	180.00	Pump 20bbl Red Dye Spacer
10	11/25/2018 02:05	Pump Tail Cement	14.5000	5.00	184.00	190.00	Pump 184bbl at 14.5ppg, 745sks BJCem S100.3.XC, yield 1.39, GPS 6.78, Mix Water 116
11	11/25/2018 02:16	Drop Top Plug					Customer witnesses plug leave
12	11/25/2018 03:10	Pump Displacement	8.3300	7.00	110.00	660.00	Pump 120bbl total displacement
13	11/25/2018 03:31	Pump Displacement	8.3300	3.00	10.00	1,500.00	Slow rate to 3bpm last 10bbl
14	11/25/2018 03:41	Land Plug					Final circulating pressure was 610psi, took pressure to 1500psi
15	11/25/2018 03:42	Other (See comment)					Casing Test, Hold pressure for 15min at 1500psi
16	11/25/2018 03:57	Check Floats					Floats held, .5bbl back to the truck
17	11/25/2018 04:00	STEACS Briefing					BJ Crew talks about the hazards of rigging down
18	11/25/2018 04:20	Rig Down					Rig Down
19	11/25/2018 05:00	Leave Location					Leave location

# BONANZA CREEK

24-8-5XRLNB - Entry Blank - Surface

