POST JOB REPORT

Bonanza Creek Energy

Surface Post Job Report

State Pronghorn 41-29-30XRLNB

S:28 T:5N R:61W Weld CO

Quote #: 06721 | **Execution #:** 04122

Bonanza Creek Energy

Attention: Mr. Joel Dill | (720) 633-5871 | JDill@bonanzacrk.com

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

Dear Mr. Joel Dill,

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,
Jacob Ojeda
Field Engineer I | (763) 516-3012 | jacob.ojeda@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

Cementing Treatment

Start Date	2/26/18	**Well**	State Pronghorn 41-29-30XRLNB
End Date	2/26/18	**County**	WELD
Client	BONANZA CREEK ENERGY	**State/Province**	CO
Client Field Rep	Josh	**API**	05-123-44111
Service Supervisor	Brian Boyd	**Rig**	Xtreme 19
District	Cheyenne, WY	**Type of Job**	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50			1,612.00	1,612.00	30.00
Casing	8.92	9.63	36.00	1,602.00	1,602.00	

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	**Tool Type**	Float Collar
Top Plug Used?	Yes	**Tool Depth (ft)**	1560’
Top Plug Provided By	Bonanza Creek	**Max Casing Pressure - Rated (psi)**	3560
Top Plug Size	9 5/8”	**Max Casing Pressure - Operated (psi)**	1220
Centralizers Used	Yes	**Pipe Movement**	No
Centralizers Quantity	16	**Job Pumped Through**	BJ cement head
Centralizers Type	Stickman	**Top Connection Thread**	LTC
Landing Collar Depth (ft)	1,560	**Top Connection Size**	9 5/8”

CIRCULATION PRIOR TO JOB

Well Circulated By	Xtreme 19	**PV Mud In**	1
Circulation Prior to Job	Yes	**YP Mud In**	0.1
Circulation Time (min)	60	**Solids Present at End of Circulation**	No
Circulation Rate (bpm)	6	**10 sec SGS**	1
Circulation Volume (bbls)	250	**10 min SGS**	1
Lost Circulation Prior to Cement Job	No	**30 min SGS**	0
Mud Density In (ppg)	8.6	**Flare Prior to/during the Cement Job**	No
Mud Density Out (ppg)	8.6	**Gas Present**	No

Cementing Treatment

TEMPERATURE

Ambient Temperature (°F)	47	**Slurry Cement Temperature (°F)**	64
Mix Water Temperature (°F)	59	**Flow Line Temperature (°F)**	69

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Planned Top of Fluid (Ft)	Length (Ft)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water (Pre-flush)	8.3308			0.00				20.0000
Tail Slurry	S100-X2 (Primary)	14.5000	1.3901	6.78	0.00	1,612.00	744	1,034.0000	184.1000
Displacement Final	Water	8.3300			0.00			0.0000	120.4000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	S100-X2 (Primary)	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	S100-X2 (Primary)	FOAM PREVENTER, FP-13L	0.0300	GALS/SK

TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)
Water (Pre-flush)	5.00	20.00
S100-X2 (Primary)	5.00	184.10
Water	0.00	120.40

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	**Amount of Cement Returned/Reversed**	34 bbls
Calculated Displacement Volume (bbls)	120	**Method Used to Verify Returns**	Visual from red dye
Actual Displacement Volume (bbls)	120	**Amount of Spacer to Surface**	20
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	0
Bump Plug	Yes	**Amount Bled Back After Job**	0.5bbls
Bump Plug Pressure (psi)	1220	**Total Volume Pumped (bbls)**	324
Were Returns Planned at Surface	Yes	**Top Out Cement Spotted**	No
Cement returns During Job	Yes	**Lost Circulation During Cement Job**	No

Customer Name Bonanza Creek
Well Name 41-29-30XRLNB
Job Type Surface

District Cheyenne
Supervisor Brian Boyd
Engineer

Seq No.	Start Date/Time	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	2/26/2018 11:30	Call Out						Customer requested crew to be on location at 17:30
2	2/26/2018 11:30	Arrive On Location						Crew was already on location waiting
3	2/26/2018 11:30	Waiting On Rig						Waiting on rig to finish running casing and casing crew to rig down to rig up for job
	2/26/2018 17:30	Rig lands Casing						Rig lands casing rig up BJ cement head and have rig cirulate through BJ head
4	2/26/2018 17:40	Steacs						Steacs Breifing with BJ crew over rigging up iron and hoses
5	2/26/2018 17:50	Rig Up Iron						Bj crew rigs up iron and hoses
6	2/26/2018 18:30	Steacs						Steacs Breifing with BJ crew, rig crew and company man over job and hazards
7	2/26/2018 18:51	Fill Pumps And Lines		8.33	4	3	59	Fill pumps and lines
8	2/26/2018 18:53	Pressure Test	54	8.33	0.5	0.5	3320	Pressure test iron and head to 3000 PSI'
9	2/26/2018 18:57	Pump Flush		8.33	5	20	220	Pump 20 bbls of flush with red dye
10	2/26/2018 19:06	Pump Primary Cement		14.5	5	184	303	Pump 184 bbls Of 14.5 PPG Primary Cement (744 Sks, 1.3901 Yield, 6.78 Gals/Sks)
11	2/26/2018 20:02	Shut Down						Shut down pumping
12	2/26/2018 20:05	Drop Top Plug	63					Drop top plug with company man to verify plug went downhole
13	2/26/2018 20:06	Pump Displacement	64	8.33	7	120	320	Pump 120 bbls of fresh water displacement
14	2/26/2018 20:17	Cement To Surface		8.33	7	86	870	86 bbls into displacement got cement to surface for total of 34 bbls of cement to surface
15	2/26/2018 20:23	Slow Rate			2.5	110	579	110 bbls into displacement slow rate down to 2.5 bpm
16	2/26/2018 20:27	Land Plug	67	8.33		120	1220	Landed plug at 120 FCP of 726 PSI bump to 1220 PSI
17	2/26/2018 20:30	Check Floats	68					Hold for 3 mins float held and got .5bbl back to truck
	2/26/2018 20:30	Casing Test		8.33	0.5	0.5	500	Preform 15 min casing test pressure up to 500 PSI
	2/26/2018 20:45	Bleed off						Bleed pressure off
20	2/26/2018 20:47	Steacs						Steacs with BJ crew over rigging down iron and hoses
21	2/26/2018 20:50	Rig Down Iron						BJ crew rigs down iron and hoses
22	2/26/2018 21:45	Depart Location						BJ crew has journey mangement and departs from location

JobMaster Program Version 4.02C1
Job Number:
Customer: ***Bonanza Creek***
Well Name: