



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

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

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

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

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

CIRCULATION PRIOR TO JOB

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

TEMPERATURE

Ambient Temperature (°F)	27.00	Slurry Cement Temperature (°F)	61.00
Mix Water Temperature (°F)	40.00	Flow Line Temperature (°F)	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 (bbbl)	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

