



Bonanza Creek Energy

Production Post Job Report

State Pronghorn 41-29-30XRLNB

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

Quote #:

| Execution #:



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@bjsservices.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	3/6/18	Well	State Pronghorn 41-29-30XRLNB
End Date	3/6/18	County	WELD
Client	BONANZA CREEK ENERGY	State/Province	CO
Service Supervisor	Zach Hyde	API	05-123-44111
District	Cheyenne, WY	Rig	Xtreme 19
Type of Job	Long String		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	8.92	9.63	36.00	1,602.00	1,602.00	
Open Hole	8.50			16,112.00	6,106.00	12.50
Casing	4.89	5.50	17.00	16,102.00	6,106.00	

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	Max Casing Pressure - Rated (psi)	8,512
Top Plug Used?	Yes	Max Casing Pressure - Operated (psi)	3,000
Top Plug Provided By	Customer	Pipe Movement	No
Top Plug Size	5.5	Job Pumped Through	Iron
Centralizers Used	No	Top Connection Thread	LTC
Landing Collar Depth (ft)	16,037	Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	17
Circulation Prior to Job	Yes	YP Mud In	8
Circulation Time (min)	180	YP Mud Out	8
Circulation Rate (bpm)	8	Solids Present at End of Circulation	No
Circulation Volume (bbls)	1440	10 sec SGS	8
Lost Circulation Prior to Cement Job	No	10 min SGS	10
Mud Density In (ppg)	9.3	30 min SGS	16
Mud Density Out (ppg)	9.3	Flare Prior to/during the Cement Job	No
PV Mud In	17	Gas Present	No

Cementing Treatment



TEMPERATURE

Ambient Temperature (°F)	30	Slurry Cement Temperature (°F)	65
Mix Water Temperature (°F)	65	Flow Line Temperature (°F)	120

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	CD Spacer	11.5000			0.00				40.0000
Lead Slurry	P100-X2 (Lead)	12.5000	2.0754	11.84	0.00	5,000.00	630	1,307.0000	232.7000
Tail Slurry	P50-X1 (Tail)	13.5000	1.4774	7.45	5,000.00	11,150.00	1,949	2,879.0000	512.7000
Displacement 2	Retarded Water	8.3337			15,248.00			0.0000	20.0000
Displacement Final	Displacement Final (Water)	8.3308			0.00			0.0000	354.5000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	CD Spacer	SAND, S-8, Silica Flour, 200 Mesh	208.5300	PPB
Spacer / Pre Flush / Flush	CD Spacer	Spacer Surfactant, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	CD Spacer	RETARDER, HIGH TEMP, R-31	0.5100	PPB
Spacer / Pre Flush / Flush	CD Spacer	SPACER SURFACTANT, SS-267	0.5000	GPB
Spacer / Pre Flush / Flush	CD Spacer	GELLANT WATER, GW-86	0.9000	PPB
Spacer / Pre Flush / Flush	CD Spacer	EXTENDER, BENTONITE	5.0000	PPB
Lead Slurry	P100-X2 (Lead)	GELLANT WATER, GW-86	0.0500	BWOB
Lead Slurry	P100-X2 (Lead)	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	P100-X2 (Lead)	BONDING AGENT, BA-60	0.4000	BWOB
Lead Slurry	P100-X2 (Lead)	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	P100-X2 (Lead)	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	P100-X2 (Lead)	RETARDER, HIGH TEMP, R-31	0.1700	BWOB
Lead Slurry	P100-X2 (Lead)	FLUID LOSS, FL-24	0.3000	BWOB
Tail Slurry	P50-X1 (Tail)	Flyash (Rockies)	50.0000	PCT
Tail Slurry	P50-X1 (Tail)	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	P50-X1 (Tail)	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	P50-X1 (Tail)	RETARDER, MID TEMP, R-250	0.1000	BWOB
Tail Slurry	P50-X1 (Tail)	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	P50-X1 (Tail)	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	P50-X1 (Tail)	GELLANT WATER, GW-86	0.1000	BWOB
Displacement 2	Retarded Water	BIOCIDE, BIOC11139W	0.1000	GPB
Displacement 2	Retarded Water	RETARDER, R-8L	0.5000	GPB
Displacement Final	Displacement Final (Water)	BIOCIDE, BIOC11139W	0.1000	GPB

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
5:54	CD Spacer	4.00	40	150
6:05	P100-X2 (Lead)	7.00	233	450
6:38	P50-X1 (Tail)	3.00	512	150
9:35	Retarded Water	8.00	20	500
9:37	Displacement Final (Water)	7.00	352	2700

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	90
Calculated Displacement Volume (bbls)	372	Amount of Spacer to Surface	40
Actual Displacement Volume (bbls)	372	Pressure Left on Casing (psi)	0
Did Float Hold?	Yes	Amount Bled Back After Job	3,000
Bump Plug	Yes	Total Volume Pumped (bbls)	1,157
Bump Plug Pressure (psi)	2,200	Top Out Cement Spotted	No
Were Returns Planned at Surface	Yes	Lost Circulation During Cement Job	No
Cement returns During Job	Yes		



Customer Name Bonanza Creek
 Well Name Pronghorn 41-29-30XRNB
 Job Type Long String

District Cheyenne
 Supervisor Zach Hyde
 Engineer _____

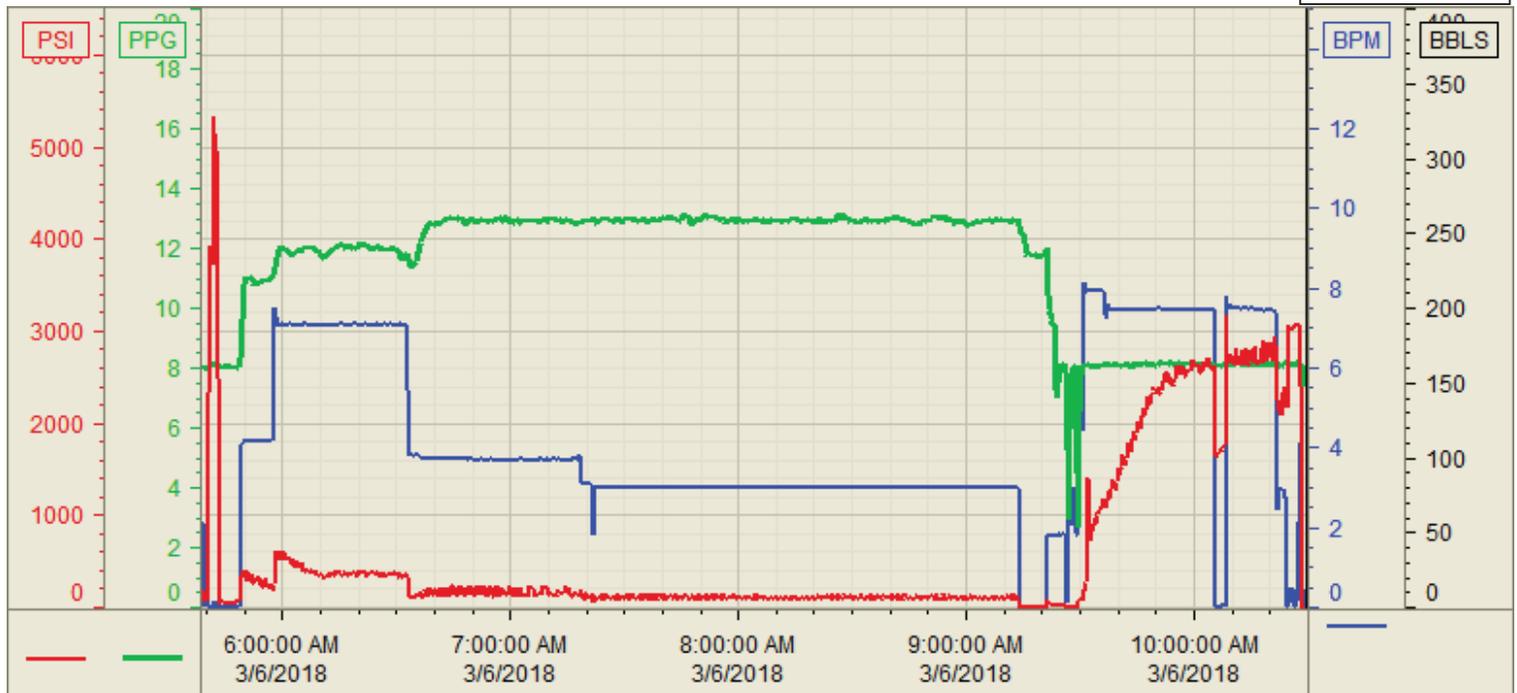
Seq No.	Start Date/Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	3/5/2018 20:00	Call Out					Crew gets called out. Requested time 0200 3/6/18
2	3/5/2018 22:00	Depart Facility					Crew leaves facility
3	3/5/2018 23:30	On Location					Crew arrives on location. I went and got numbers from company man
4	3/5/2018 23:30	Wait					Crew waits for the casing crew to get out of the way so we can spot equipemnt
5	3/6/2018 3:00	Rig Up					Crew rigs up iron and hoses needed for the job
6	3/6/2018 3:30	Wait					Crew waits for the rig to finish circulating
7	3/6/2018 5:15	Safety Meeting					Crew has a saftey meeting with rig crew and company man discussing the job
8	3/6/2018 5:44	Fill Lines	8.33	2	3	50	Filled lines with 3 bbls
9	3/6/2018 5:47	Pressure Test					Pressure tested to 5000 psi
10	3/6/2018 5:54	CD Spacer	11.5	4	40	150	Pumped 40 bbls of CD Spacer at 11.5 ppg
11	3/6/2018 6:05	Lead	12.5	7	233	450	Pumped 232 bbls of Lead at 12.5 ppg (630sks, 2.07 yld, 11.84 gal/sk) at 7 bpm with 450 psi
12	3/6/2018 6:38	Tail	13.5	4	512	150	Pumped 512 bbls of Tail at 13.5 ppg(1949sks,1.47yd, 7.45 gal/sk) at 4 bpm with 150 psi. The reason why were pumping this slow is because the rigs water gage was reading off so were waiting for water truck to get here
	3/6/2018 7:26	Slow Rate	13.5	3		150	Slowed rate the last 322 bbls to 3bpm to the slowest rate we can pump until more water shows up
13	3/6/2018 9:21	Shutdown					Shutdown wash pump and lines to pit
14	3/6/2018 9:35	Drop Plug					Drop latch down plug
15	3/6/2018 9:35	Displacement	8.33	8	20	500	20 bbls away of dispalcement with 10 gallons of retardeer at 8 bpm with 500 psi
16	3/6/2018 9:38	Displacement	8.33	7	352	2700	352 bbls away of displacement at 7 bpm with 2700 psi
	3/6/2018 10:00	Spacer To Surface					Got spacer to surface at 240 bbls away into dispalcement
	3/6/2018 10:05	Cement To Surface					Got cement to surface at 280 bbls into displacement
17	3/6/2018 10:29	Slow Rate					Slow rate last 20 bbls of displacment
18	3/6/2018 10:29	Displacement	8.33	3	20	2200	372 bbls away landed the plug at 3 bpm 2200psi
19	3/6/2018 10:32	Land Plug					Landed plug , Final circulating pressure was 2200 psi brought it up to 3000 psi
20	3/6/2018 10:35	Check Floats					Checked floats got 3.25 bbls back
21	3/6/2018 10:35	Job Complete					Job complete got 90 bbls of cement to surface
22	3/6/2018 11:00	Rig Down					Crew rigs down iron and hoses
23	3/6/2018 12:00	Depart Location					Crew leaves location

Customer: Bonanza Creek
 Well Number: 41-29-30XRLNB
 Lease Info: Pronghorn



Print Date/Time

3/6/2018 10:53:20 AM



	Name	Y value	X value/time stamp	Tag name Y
1	PS - Press (PSI)	-8.7	3/6/2018 10:29:36 AM	Cementer\PS_DISCHARGE_PRESS_DIAL
2	Den2 - Discharge Density (PPG)	8.02	3/6/2018 10:29:32 AM	Cementer\DENSITY2_ACTUAL_RATE
3	Combined Rate (BPM)	0.45	3/6/2018 10:29:32 AM	Cementer\Flow_Combined
4				
5				

Source: Control1 10:53:13 AM