



Bonanza Creek Energy

Pronghorn U-Y-18HNB

API # 05-123-45065

Surface

11/20/2018

Quote #: 22953

Execution #: 13219



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	11/19/2018	Well	Pronghorn U-Y-18HNB
End Date	11/20/2018	API#	05-123-45065
Client	Bonanza Creek Energy	County	WELD
Client Field Rep.	Dorian Juarez	State/Province	CO
Service Sup.	Victor Corona-Marta	Rig	Akita 520
District	Cheyenne, WY	Execution ID	EXC-13219-N5H3C702
Type of Job	Surface	Project ID	PRJ1012770

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50	0.00	0.00	1,611.00	1,611.00	30.00
Casing	8.92	9.63	36.00	1,601.00	1,601.00	

Shoe Length (ft): 43.00

HARDWARE

Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	1,558.01
Top Plug Size	9.625	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	14.00	Top Connection Thread	LTC
Centralizers Type	Bow	Top Connection Size	9.625
Landing Collar Depth (ft)	1,558		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Mud Density In (ppg)	8.50
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	30.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	23.00	Slurry Cement Temperature (°F)	50.00
Mix Water Temperature (°F)	50.00		

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	1.3901	6.78	1550	720	1,002.0000	178.4000
Displacement Final	Water	8.3300					0.0000	116.6000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	BJCem S100.3.XC	FOAM PREVENTER, FP-13L	0.0300	GALS/SK
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	25.00
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	1.00
Bump Plug Pressure (psi)	1,400.00	Total Volume Pumped (bbls)	318.00
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 U-Y-18HNB

Job Type: Surface

Quote ID: QUO-22953-Y6Y7G1

Plan ID: ORD-13219-N5H3C7

District: Cheyenne, WY

Execution ID: EXC-13219-N5H3C702

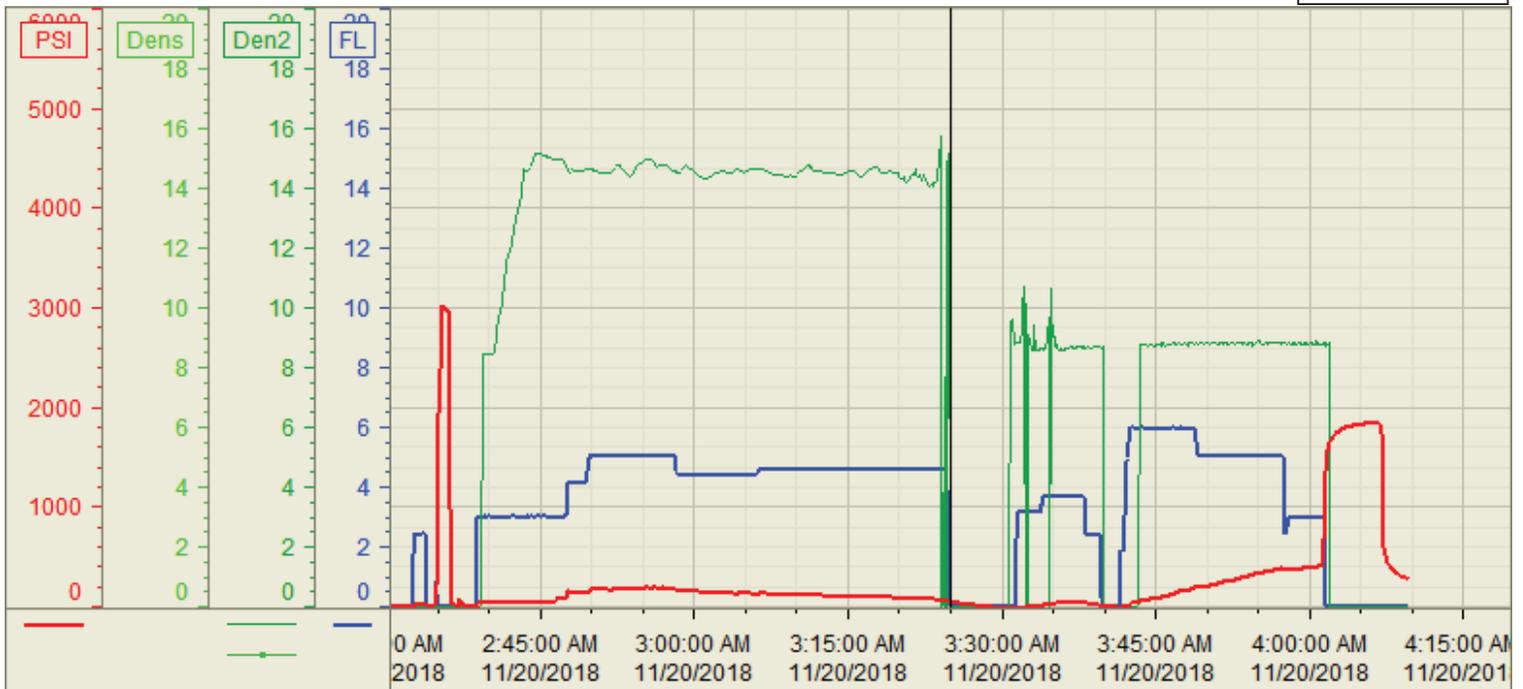
BJ Supervisor: Victor Corona-Marta

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	11/19/2018 15:30	Callout					Pre-trip vehicles and getting chemicals ready
2	11/19/2018 17:30	Depart for Location					Drive to location
3	11/19/2018 20:00	Other (See comment)					Arrived at location/casing crew was rigging up
4	11/20/2018 01:00	Rig Up					Rig up to rig
5	11/20/2018 01:30	Other (See comment)					Safety meeting with BJ crew and rig crew
6	11/20/2018 02:34	Pressure Test				3,000.00	Pressure test lines to psi
7	11/20/2018 02:38	Pump Spacer	8.3300	5.00	20.00	50.00	pump 20bbls of fresh water spacer
8	11/20/2018 02:47	Pumping Cement	14.5000	5.00	178.25	480.00	pumping cement 178.25bbls (720 sacks/yield 1.3901/gal per sack 6.78)
9	11/20/2018 03:25	Drop Bottom Plug					dropping plug/washing pump and lines on top of plug
10	11/20/2018 03:31	Pump Displacement	8.3300	3.00	120.00	80.00	Started to pump displacement
11	11/20/2018 03:39	Other (See comment)	8.3300	0.00			Shut down we were not getting water/water bottle stuck on the filter
12	11/20/2018 03:42	Pump Displacement	8.3300	6.00			back on line at 6bpm
13	11/20/2018 03:56	Pump Displacement	8.3300	5.00	100.00	400.00	100bbls gone
14	11/20/2018 03:59	Pump Displacement	8.3300	5.00	110.00	400.00	110bbls gone/slow down rate to 3bpm
15	11/20/2018 04:01	Pump Displacement				1,400.00	bump plug
16	11/20/2018 04:06	Check Floats					check float/ had 1bbl on water returns/25bbls on cement returns
17	11/20/2018 04:10	Rig Down					rig down from rig floor to iron trailer

Customer: Bonanza Creek
 Well Number: U-Y-18HNB
 Lease Info: Pronghorn



Print Date/Time
 11/20/2018 4:09:42 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press (PSI)	48.0	11/20/2018 3:24:57 AM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	-1.26 i.	11/20/2018 3:25:00 AM i.	Cementer\DENSITY_ACTUAL_RATE
3	Combined pump rate	0.00	11/20/2018 3:24:57 AM	Cementer\Flow_Combined
4	Trend 1			
5				

Source: Control1 4:09:43 AM