



Bonanza Creek Energy

Production Post Job Report

North Platte 21-24-28HNC

S:21 T:5N R:63W Weld CO

Quote #:

18540

| Execution #:

10996



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,
Jason Creel
Field Engineer I | (307) 256-0306 | Jason.Creel@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	9/11/2018	Field Ticket#	FT-10996-D9G3W90202-966477264
End Date	9/12/2018	Well	NORTH PLATTE 21-24-28HNC
Client	BONANZA CREEK ENERGY	API#	05-123-47009
Client Field Rep.	Mike	County	WELD
Service Sup.	Brian Boyd	State/Province	CO
District	Cheyenne, WY	Formation	NIOBRARA
Type of Job	Long String	Rig	Xtreme 19
Execution ID	EXC-10996-D9G3W902	Project ID	PRJ1010705

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	8.92	9.63	36.00	1,560.00	1,560.00	
Open Hole	8.50	0.00	0.00	11,657.00	6,392.00	12.50
Casing	4.89	5.50	17.00	11,647.00	6,392.00	

Shoe Length (ft): 42.00

HARDWARE

Top Plug Used?	Yes	Tool Type	Float Collar
Top Plug Provided By	Non BJ	Tool Depth (ft)	11,605.00
Top Plug Size	5.500	Max Casing Pressure - Rated (psi)	10,640.00
Centralizers Used	Yes	Max Casing Pressure - Operated (psi)	7,480.00
Centralizers Quantity	120.00	Pipe Movement	None
Centralizers Type	Bow	Job Pumped Through	Manifold
Landing Collar Depth (ft)	11,605	Top Connection Thread	LTC
		Top Connection Size	5.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	YP Mud In	9
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	120.00	10 sec SGS	5.00
Circulation Rate (bpm)	6.00	10 min SGS	7.00
Circulation Volume (bbls)	865.00	30 min SGS	9.00
Lost Circulation Prior to Cement Job	No	Flare Prior to/during the Cement Job	No
Mud Density In (ppg)	9.30	Gas Present	No
PV Mud In	6		

TEMPERATURE

Ambient Temperature (°F)	66.00	Slurry Cement Temperature (°F)	75.00
Mix Water Temperature (°F)	69.00	Flow Line Temperature (°F)	115.00

Cementing Treatment



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	IntegraGuard EZ Spacer	12.0000			0.00				60.0000
Lead Slurry	BJCem P100.3.01C	12.5000	2.1538	12.23	0.00	5000	605	1,308.0000	232.8000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4772	7.45	5,000.00	6618.55	1160	1,712.0000	304.7000
Displacement 2	Retarded Water	8.3337			13,244.00	0	0	0.0000	20.0000
Displacement Final	Displacement Final (Water)	8.3308			0.00			0.0000	249.2000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	EXTENDER, BENTONITE	5.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	1.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	242.2100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-267	0.5000	GPB
Lead Slurry	BJCem P100.3.01C	GELLANT WATER, GW-86	0.2000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	BONDING AGENT, BA-60	0.4000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.4000	BWOB
Lead Slurry	BJCem P100.3.01C	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	GELLANT WATER, GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.0700	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Displacement 2	Retarded Water	RETARDER, R-8L	0.5000	GPB
Displacement 2	Retarded Water	BIOCIDE, BIOC11139W	0.0100	GPB
Displacement Final	Displacement Final (Water)	BIOCIDE, BIOC11139W	0.0100	GPB

Cementing Treatment



TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)
IntegraGuard EZ Spacer	5.00	60.00
BJCem P100.3.01C	6.00	232.80
BJCem P50.6.02C	6.00	304.70
Retarded Water	5.00	20.00
Displacement Final (Water)	8.00	249.20

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	Amount of Cement Returned/Reversed	50.00
Calculated Displacement Volume (bbls)	269.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	267.00	Amount of Spacer to Surface	60.00
Did Float Hold?	Yes	Amount Bled Back After Job	3.00
Bump Plug	Yes	Total Volume Pumped (bbls)	866.70
Bump Plug Pressure (psi)	3,150.00	Top Out Cement Spotted	No
Were Returns Planned at Surface	Yes	Lost Circulation During Cement Job	No
Cement returns During Job	Full		

EVENT LOG



Customer Name: BONANZA CREEK ENERGY

Well Name: NORTH PLATTE 21-24-28HNC

Job Type: Long String

Quote ID: QUO-18540-W0N4P0

Plan ID: ORD-10996-D9G3W9

District: Cheyenne, WY

Execution ID: EXC-10996-D9G3W902

BJ Supervisor: Brian Boyd

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	09/11/2018 20:20	Callout					Customer requested crew to be on location at 2:00 9/12/18
2	09/12/2018 00:00	Arrive on Location					BJ crew has journey management and departs from shop, Crew arrives on location and meet with customer
3	09/12/2018 00:30	Safety Meeting					BJ crew has steacs over rigging up iron and hoses
4	09/12/2018 01:07	Rig Up					BJ crew rigs up iron and hoses
5	09/12/2018 06:20	Safety Meeting					Steacs briefing with BJ crew, rig crew and company man over job and hazards
6	09/12/2018 06:42	Start Pumping	8.3300	2.50	3.00	172.00	Fill pumps and lines
7	09/12/2018 06:44	Pressure Test	8.3300	0.50	0.50	7,000.00	Pressure test iron and hoses to 5000 PSI
8	09/12/2018 06:50	Pump Spacer	12.0000	3.00	60.00	170.00	Pump 60 bbls of 12 PPG Spacer, every 20 bbls drop weight by .5 PPG, drop to 11 PPG
9	09/12/2018 07:18	Pump Lead Cement	12.5000	6.00	232.00	465.00	Pump 232 bbls of 12.5 PPG lead cement (605 Sks, 2.15 Yield, 12.23 Gals/Sks)
10	09/12/2018 08:00	Pump Tail Cement	13.5000	6.00	304.00	424.00	Pump 304 bbls of 13.5 PPG Tail cement (1160 Sks, 1.47 Yield, 7.89 Gals/Sks)
11	09/12/2018 08:52	End Pumping					SHut down pumping
12	09/12/2018 08:54	Clean Pumps and Lines	8.3300	2.00	15.00	45.00	Wash pumps and Lines
13	09/12/2018 09:04	Drop Top Plug					Drop top plug
14	09/12/2018 09:04	Pump Displacement	8.3300	7.00	267.00	987.00	Pump 269 bbls of fresh water displacement
15	09/12/2018 09:40	Cement Back to Surface	8.3300	7.00	210.00	2,015.00	210 bbls into displacement got 50 bbls of cement to surface
16	09/12/2018 09:43	Other (See comment)	8.3300	5.00	257.00	2,230.00	Last 20 bbls slow rate to 5 bpm
17	09/12/2018 09:47	Land Plug			267.00	3,140.00	Bump plug to 3140 PSI, FCP of 2230 PSI

EVENT LOG



18	09/12/2018 09:50	Check Floats					Hold for 3 mins and check floats got 3 bbls back t pump truck
19	09/12/2018 09:53	Safety Meeting					BJ crew has steacs briefing over rigging down iron and hoses
20	09/12/2018 09:55	Rig Down					BJ crew rigs down iron and hoses
21	09/12/2018 11:20	Leave Location					BJ crew has journey management and departs from location



JobMaster Program Version 4.02C1

Job Number:

Customer: Bonanza Creek

Well Name: North Platte 21-24-28HNC

