



Bonanza Creek Energy

North Platte K21-O24-28HNB

API # 05-123-46915

Production

10/18/2018

Quote #: 21054

Execution #: 12156



Bonanza Creek Energy

Attention: Mr. Adam Conry | (303) 883.3351 | AConry@bonanzacrck.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	10/18/2018	Well	NORTH PLATTE K21-O24-28HNB
End Date	10/18/2018	API#	05-123-46915
Client	Bonanza Creek Energy	County	WELD
Service Sup.	Travis Tolman	State/Province	CO
District	Cheyenne, WY	Formation	NIOBRARA
Type of Job	Long String	Rig	Akita 520
Execution ID	EXC-12156-D9X8M802	Project ID	PRJ1011812

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	8.92	9.63	36.00	1,649.00	1,639.00	
Open Hole	8.50	0.00	0.00	12,169.00	6,280.00	12.50
Casing	4.89	5.50	17.00	12,159.00	6,280.00	

Shoe Length (ft): 42.00

HARDWARE

Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	10,640.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	4,500.00
Top Plug Size	5.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	140.00	Top Connection Thread	8RND
Centralizers Type	Rigid	Top Connection Size	5.5
Landing Collar Depth (ft)	12,117		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	6.00
Circulation Time (min)	120.00	10 min SGS	8.00
Lost Circulation Prior to Cement Job	No	30 min SGS	10.00
Mud Density In (ppg)	9.10	Flare Prior to/during the Cement Job	No
PV Mud In	7	Gas Present	No
YP Mud In	7	Gas Units	

TEMPERATURE

Ambient Temperature (°F)	38.00	Flow Line Temperature (°F)	140.00
Mix Water Temperature (°F)	52.00		

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	2.1515	12.23	0.00	5000	610	1,308.0000	233.5000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4785	7.44	5,000.00	7151	1250	1,849.0000	327.2000
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	261.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-267	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-247	0.5000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	EXTENDER, BENTONITE	5.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	IntegraGuard GW-86	1.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	242.2100	PPB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.2000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	BJCem P100.3.01C	RETARDER, R-31	0.1100	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	EXTENDER, BENTONITE	4.0000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, R-6	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Displacement 2	Retarded Water	RETARDER, R-8L	0.5000	GPB
Displacement 2	Retarded Water	BIOCID, BIOC11139W	0.0100	GPB
Displacement Final	Displacement Final (Water)	BIOCID, BIOC11139W	0.0100	GPB

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	110.00
Calculated Displacement Volume (bbls)	281.60	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	281.00	Amount of Spacer to Surface	60.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	3.00
Bump Plug Pressure (psi)	3,061.00	Total Volume Pumped (bbls)	904.00
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: NORTH PLATTE K21-O24-28HNB

Job Type: Long String

Quote ID: QUO-21054-D0R2C0

Plan ID: ORD-12156-D9X8M8

District: Cheyenne, WY

Execution ID: EXC-12156-D9X8M802

BJ Supervisor: Travis Tolman

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	10/17/2018 21:00	Callout					Crew called out for on location of 0300, crew pre trip equipment
2	10/18/2018 01:00	Leave Location					Crew ready to head to location
3	10/18/2018 01:20	Arrive on Location					Arrived on location, running casing, met with company man to get numbers, discuss job and safety issues
4	10/18/2018 03:50	Spot Units					Spot equipment
5	10/18/2018 04:00	Safety Meeting					Held safety meeting with crew to discuss job tasks, rig up and safety issues
6	10/18/2018 04:10	Rig Up					Rigged up from equipment to rig floor
7	10/18/2018 05:30	Safety Meeting					Held safety meeting with company man, tool hand, rig hands and crew to discuss job and safety issues
8	10/18/2018 06:20	Start Pumping	8.3000	2.00	3.00	247.00	Load pump and lines with fresh water
9	10/18/2018 06:22	Pressure Test	8.3000			5,546.00	Pressure test pump and lines
10	10/18/2018 06:41	Pump Spacer	12.0000	3.40	20.00	240.00	Pump 20bbls of spacer at 12# with chemicals
11	10/18/2018 06:48	Pump Spacer	11.5000	3.40	20.00	220.00	Pump 20bbls of spacer at 11.5# with chemicals
12	10/18/2018 06:53	Pump Spacer	11.0000	3.40	20.00	120.00	Pump 20bbls of spacer at 11# with chemicals
13	10/18/2018 07:04	Pump Lead Cement	12.5000	5.00	233.00	272.00	Pump 610sks/233.5bbls of lead cement at 12.5#-2.15Y-12.23gps
14	10/18/2018 07:53	Pump Tail Cement	13.5000	6.20	327.00	500.00	Pump 1250sks/327.2bbls of tail cement at 13.5#-1.47Y-7.45gps
15	10/18/2018 08:55	End Pumping					Shut down, wash pump and lines
16	10/18/2018 09:08	Drop Top Plug					Drop top plug, witnessed by company man, tool hand and BJ rep
17	10/18/2018 09:18	Pump Displacement	8.3000	7.40	260.00	2,600.00	Pump fresh water displacement, first 20bbls with R-8, rest with Biocide, 281.6bbls calculated, top of tail at 4162'
18	10/18/2018 09:54	Other (See comment)	8.3000	3.60	21.00	2,351.00	Slow rate to land plug
19	10/18/2018 10:00	Land Plug	8.3000			3,061.00	Land plug, 281bbls of displacement, 60bbls of spacer and 110bbls of cement to surface

EVENT LOG



20	10/18/2018 10:05	Check Floats	8.3000			3,138.00	Check float, held, 3bbls back
21	10/18/2018 10:15	Safety Meeting					Held safety meeting with crew to discuss rig down and safety
22	10/18/2018 10:30	Rig Down					Rigged down from floor to equipment
23	10/18/2018 12:00	Leave Location					Crew ready to leave location



JobMaster Program Version 4.02C1
Job Number: 10426
Customer: Bonanza Creek
Well Name: North Platte K21-024-28HNB

