POST JOB REPORT

Bonanza Creek Energy

Production Cement Post-Job Report

North Platte 31-35-2MRLNC (API: 05-123-46384)

S:26 T:5N R:63W Weld, CO

Quote #: 07964 | **Execution #:** 05935

Bonanza Creek Energy

Joel Dill | (303) 893-2503 | JDill@bonanzacrk.com

Bonanza Creek Energy | 730 17th Street, Suite 610 | Denver, CO 80202

Dear Mr. 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,
Karl Griesser
Field Engineer I | (713) 829-7498 | karl.griesser@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	4/20/18	**Well**	North Platte 31-35-2MRLNC
End Date	4/20/18	**County**	Weld
Client	BONANZA CREEK ENERGY	**State/Province**	CO
Client Field Rep	Josh	**API**	05-123-46384
Service Supervisor	Brian Boyd	**Rig**	Xtreme 19
Field Ticket No.	FT-05935-Z9G3J70202-12246	**Type of Job**	Long String
District	Cheyenne, WY		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	8.92	9.63	36.00	1537.00	1,537	
Open Hole	8.50			11,599	6,374.00	12.50
Casing	4.89	5.50	17.00	11,589.	6,374.00	

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	**Max Casing Pressure - Rated (psi)**	10640
Top Plug Used?	Yes	**Max Casing Pressure - Operated (psi)**	5984
Top Plug Provided By	TEAM	**Pipe Movement**	No
Top Plug Size	5.5”	**Job Pumped Through**	BJ Head
Centralizers Used	Yes	**Top Connection Thread**	LTC
Centralizers Quantity	80	**Top Connection Size**	5.5”
Centralizers Type	Stickman		
Landing Collar Depth (ft)	11,547		
Tool Type	Float Collar		
Tool Depth (ft)	11,547		

Cementing Treatment

CIRCULATION PRIOR TO JOB

Well Circulated By	Xtreme 19	**Solids Present at End of Circulation**	No
Circulation Prior to Job	Yes	**10 sec SGS**	6
Circulation Time (min)	120	**10 min SGS**	8
Circulation Rate (bpm)	6	**30 min SGS**	10
Circulation Volume (bbls)	550	**Flare Prior to/during the Cement Job**	No
Lost Circulation Prior to Cement Job	No	**Gas Present**	No
Mud Density In (ppg)	9.4		
PV Mud In	15		
YP Mud In	6		

TEMPERATURE

Ambient Temperature (°F)	55	**Slurry Cement Temperature (°F)**	69
Mix Water Temperature (°F)	52	**Flow Line Temperature (°F)**	212

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	2.0751	11.84	0.00	4236	630	1,307.0000	232.7000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4772	7.45	4236	7352	1,147	1,695.0000	301.7000
Displacement 2	Retarded Water	8.3337			10,651.00				20.0000
Displacement Final	Displacement Final (Water)	8.3308			0.00				247.6000

Cementing Treatment

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	208.5300	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, R-31	0.5100	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
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
Lead Slurry	BJCem P100.3.01C	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	BJCem P100.3.01C	RETARDER, R-31	0.1500	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	BONDING AGENT, BA-60	0.4000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	GELLANT WATER, GW-86	0.0500	BWOB
Lead Slurry	BJCem P100.3.01C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	GELLANT WATER, GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.0700	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	Flyash (Rockies)	50.0000	PCT
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)	Pipe Pressure (psi)
IntegraGuard EZ Spacer	5.00	60.00	100
BJCem P100.3.01C	6.00	232.70	282
BJCem P50.6.02C	6.00	301.70	264
Retarded Water	5.00	20.00	900
Displacement Final (Water)	8.00	247.60	2100

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ Services	**Amount of Cement Returned/Reversed**	83
Calculated Displacement Volume (bbls)	268	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	268	**Amount of Spacer to Surface**	60 bbls
Did Float Hold?	Yes	**Amount Bled Back After Job**	3 bbls
Bump Plug	Yes	**Total Volume Pumped (bbls)**	801
Bump Plug Pressure (psi)	2568	**Top Out Cement Spotted**	No
Were Returns Planned at Surface	Yes	**Lost Circulation During Cement Job**	No
Cement returns During Job	Yes		

EVENT LOG

Service Line Cementing

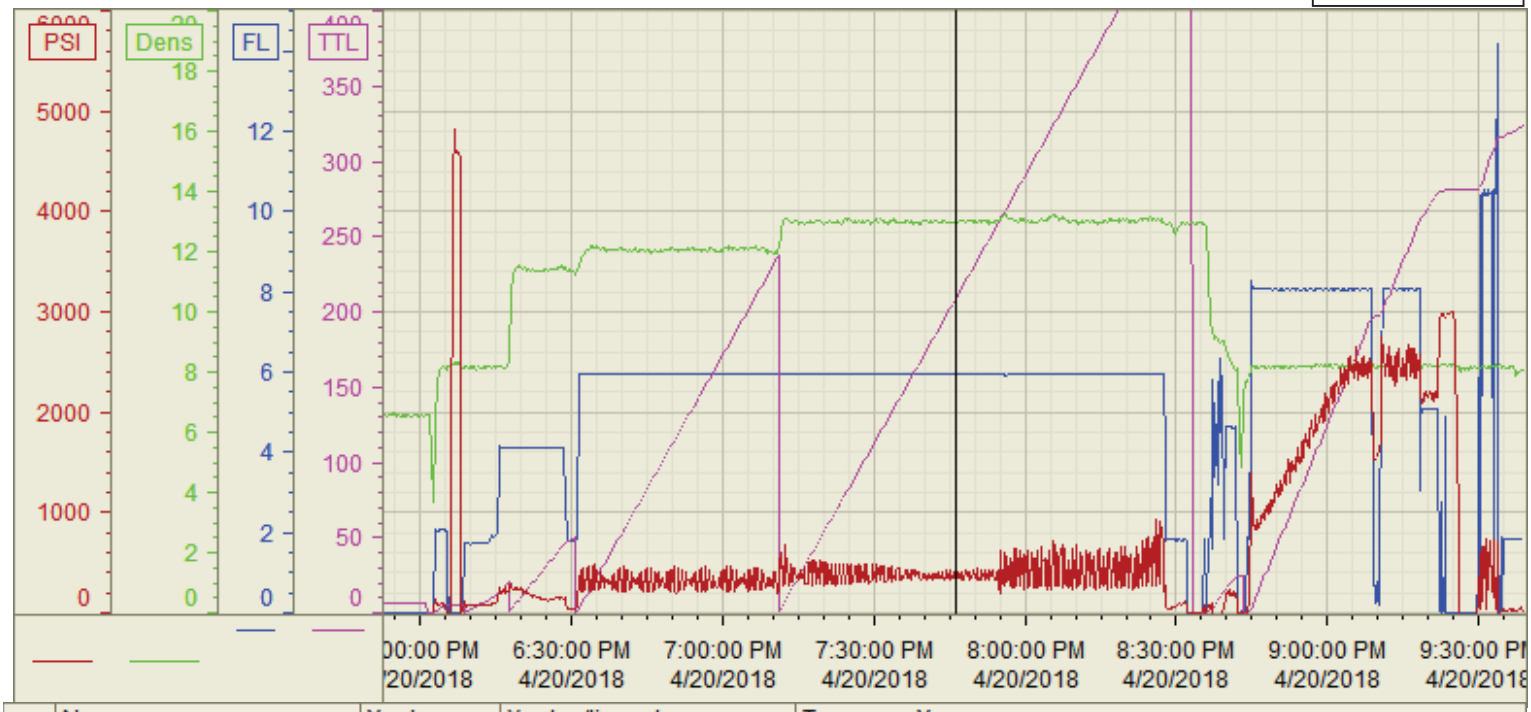
Client BONANZA CREEK ENERGY
Well North Platte 31-35-2MRLNC
District Cheyenne, WY
Supervisor Brian Boyd

Quotes: QUO-07964-F6D0D8
Plans: ORD-05935-Z9G3J7
Executions: EXC-05935-Z9G3J702

Seq.	Well	Job Type	BJ Sup.	Start Dt./Time	Category	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol(bbls)	Pipe Pressure(psi)	Comments
1	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 10:10	Mobilization	Callout					Customer requested crew to be on location at 14:00
2	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 14:00	Mobilization	Arrive on Location					Crew Arrives On location and meet with customer
3	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 14:15	StandBy	Other (See comment)					Bj Crew has Steacs breifing over spotting equiment and rigging up iron and hoses
4	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 14:20	Operational	Rig Up					Bj crew rigs up iron and hoses
5	North Platte 31-35-2MRLNC	Long String	Brian Boyd	4/20/18 15:54	StandBy	Other (See comment)					Rig lands casing and begins to recurilate well
6	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 17:00	StandBy	Other (See comment)					Bj crew has steacs breifing with rig crew and company man over job producere and hazards
7	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 17:54	Operational	Start Pumping	8.3300	2.00	2.00	97.00	Fill pumps and lines
8	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 17:58	Operational	Pressure Test	8.3300	0.50	0.50	5,890.00	Pressure test iron and head
9	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 18:05	Operational	Pump Spacer	8.3300	5.00	20.00	110.00	Pump 20 bbls of fresh water ahead
10	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 18:13	Operational	Pump Spacer	12.0000	4.00	60.00	100.00	Pump 60 bbls of 12 PPG EZ Spacer
11	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 18:31	Operational	Pump Lead Cement	12.5000	6.00	232.00	282.00	Pump 232 bbls of 12.5 PPG Lead Cement (630 Sks, 2.0751 Yield, 11.84 Gals/Sks)
12	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 19:11	Operational	Pump Tail Cement	13.5000	6.00	301.00	264.00	Pump 301 bbls of 13.5 PPG Tail Cement (1147 Sks, 1.4772 Yield, 7.45 Gals/Sks)
13	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 20:24	Operational	End Pumping	0.0000	0.00	0.00	0.00	Shut down pumping
14	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 20:27	Operational	Clean Pumps and Lines	8.3300	4.00	15.00	30.00	Switch values on cement head and wash pumps and lines to 3 WAY tank
15	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 20:36	Operational	Drop Top Plug	8.3300	0.00	0.00	0.00	Drop latch down top plug
16	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 20:37	Operational	Pump Displacement	8.3300	8.00	268.00	900.00	Start displacing fresh water total displacement of 268 bbls
17	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:01	Operational	Cement Back to Surface	8.3300	8.00	185.00	2,208.00	185 bbls into displacement got cement to surface for total of 83 bbls of cement to surface
18	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:11	Operational	Other (See comment)	8.3300	5.00	246.00	2,100.00	245 bbls into displacement slow rated down to 5 bpm
19	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:15	Operational	Land Plug	8.3300	5.00	268.00	3,000.00	268 bbls calulated displacement bump plug up to 3000 FCP of 2568 PSI
20	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:18	Operational	Check Floats					Hold for 3 mins and got 3 bbls back to the truck
21	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:20	Operational	Other (See comment)					Bj crew has steacs breifing over rigging down head and iron
22	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 21:30	Operational	Rig Down					Bj crew rigs down iron and cement head
23	North Platte 31-35-2MRLNC	Long String	Brian Boyd	04/20/2018 23:18	Mobilization	Leave Location					Bj crew has journey mangement and departs from location

Customer: Bonanza Creek Energy
Well Number: 31-35-2MRLNC
Lease Info: North Platte

Print Date/Time
4/21/2018 11:02:50 AM



	Name	Y value	X value/time stamp	Tag name Y
1	PS - Press (PSI)	356.6 i.	4/20/2018 7:46:13 PM i.	Cementer\PS_DISCHARGE_PRESS_DIAL
2	DH Density (PPG)	12.88	4/20/2018 7:46:14 PM	Cementer\DENSITY2_ACTUAL_RATE
3	Down Hole Total (BBLS)	207.8	4/20/2018 7:46:10 PM	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined pump rate	5.95	4/20/2018 7:46:08 PM	Cementer\Flow_Combined
5				

Source: Control1 11:02:49 AM