POST JOB REPORT

Bonanza Creek Energy

Surface Post Job Report

North Platte Federal 21-24-22HC

S:22 T:5N R:63W Weld CO

Quote #: 05069 | **Execution #:** 02939

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@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	10/13/2017	**Well**	North Platte Federal 21-24-22HC
End Date	12/30/2017	**County**	WELD
Client	BONANZA CREEK ENERGY	**State/Province**	CO
Client Field Rep	Sam	**API**	05-123-43502
Service Supervisor	C. Johnson	**Type of Job**	Surface
District	Cheyenne, WY		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Open Hole	13.50			1,637.00	1,637.00	30.00
Casing	8.92	9.63	36.00	1,626.00	1,626.00	

Shoe Length (ft): 45

HARDWARE

Bottom Plug Used?	No	**Top Plug Size**	9.625
Top Plug Used?	Yes	**Centralizers Used**	No
Top Plug Provided By	Customer	**Landing Collar Depth (ft)**	1,581

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	**Mud Density Out (ppg)**	8.5
Circulation Prior to Job	Yes	**Solids Present at End of Circulation**	No
Lost Circulation Prior to Cement Job	No	**Flare Prior to/during the Cement Job**	No
Mud Density In (ppg)	8.5	**Gas Present**	No

TEMPERATURE

Ambient Temperature (°F)	28	**Mix Water Temperature (°F)**	65

Cementing Treatment

BJ FLUID DETAILS

Fluid Type	Fluid Name	Density (ppg)	Yield (Cu Ft/sk)	H2O Req. (gals/sk)	Vol (sk)	Vol (Cu Ft)	Vol (bbls)
Spacer / Pre Flush / Flush	Water (Pre-flush)	8.3308					20.0000
Tail Slurry	S100-X2 (Primary)	14.5000	1.3901	6.78	721	1,002.0000	178.4000
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	14.5000	1.3901	6.78	151	209.0000	37.2000
Displacement Final	OBM	9.5000				0.0000	116.6000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	S100-X2 (Primary)	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	S100-X2 (Primary)	FOAM PREVENTER, FP-13L	0.0300	GALS/SK
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	CEMENT, ASTM TYPE III	100.0000	PCT
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	FOAM PREVENTER, FP-13L	0.0300	GALS/SK

TREATMENT SUMMARY

Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
Water (Pre-flush)	5.00	20.00	50
S100-X2 (Primary)	5.00	178.40	300
S100-X2 (Top-Out)	0.00	37.20	
Water (Displacement)	5.00	122.00	600

	Min	Max	Avg
Pressure (psi)	50	1300	400
Rate (bpm)	2	5	5

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	**Amount of Cement Returned/Reversed**	42
Calculated Displacement Volume (bbls)	122	**Method Used to Verify Returns**	Visual
Actual Displacement Volume (bbls)	122	**Amount of Spacer to Surface**	20 bbls
Did Float Hold?	Yes	**Pressure Left on Casing (psi)**	0
Bump Plug	Yes	**Amount Bled Back After Job**	0.5
Bump Plug Pressure (psi)	600	**Total Volume Pumped (bbls)**	330
Were Returns Planned at Surface	Yes	**Top Out Cement Spotted**	No
Cement returns During Job	Yes	**Lost Circulation During Cement Job**	No

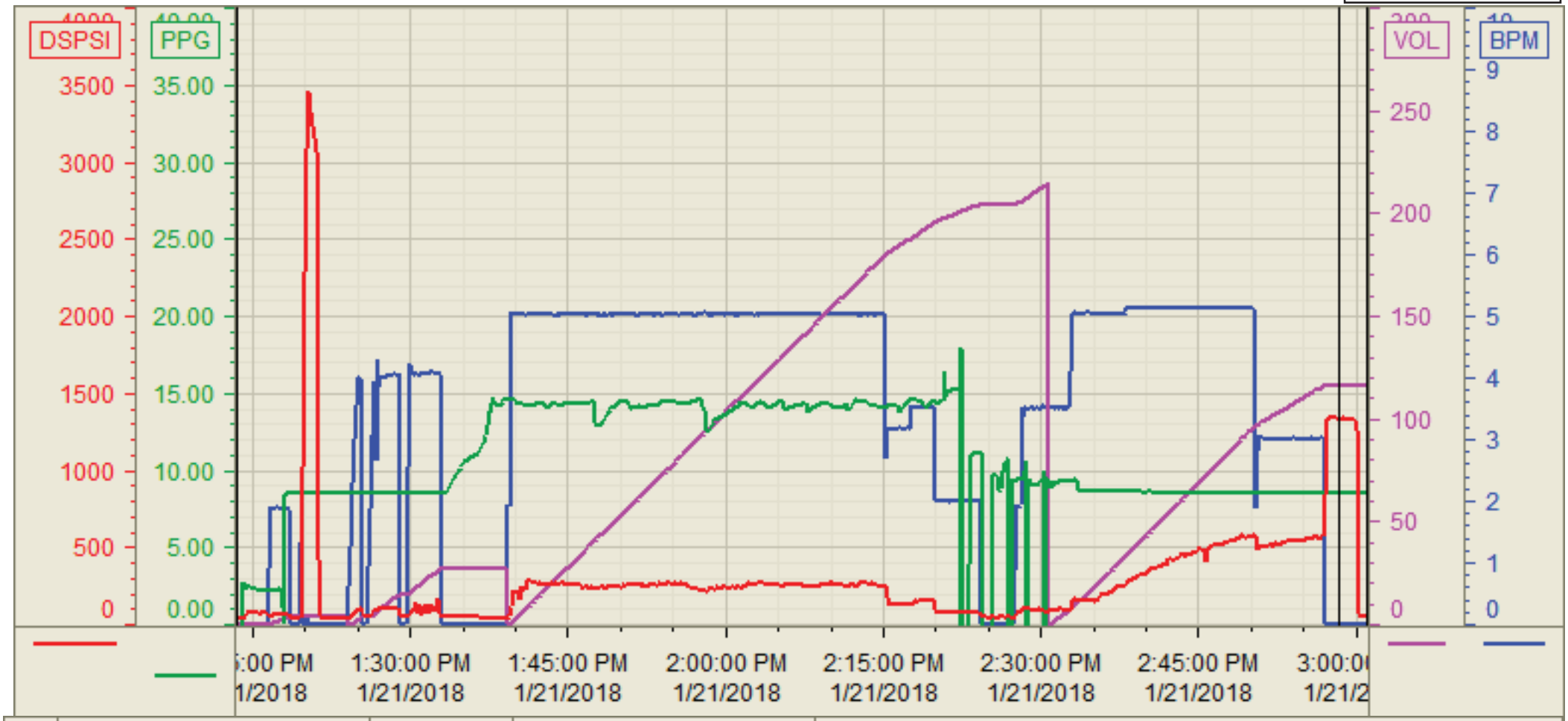
Customer Name Bonanza Creek
Well Name North Platte Fed 21-24-22HC
Job Type Surface

District Cheyenne
Supervisor C. Johnson
Engineer

Seq No.	Start Date/Time	Category	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	1/21/18 0001	Mobilization	Callout	1					Crew called out for on location at 0600 1-21-18
2	1/21/18 0530	Mobilization	Arrive on Location	48					Crew arrived on location at 0530 1-21-18
3	1/21/18 0700	Operational	Safety Meeting	53					Safety meeting
4	1/21/18 0715	Operational	Spot Units	49					Spotted all equipment on location
5	1/21/18 0730	Operational	Rig Up	50					Rigged up all equipment
6	1/21/18 1245	Operational	Safety Meeting	53					Safety meeting
7	1/21/18 1323	Operational	Prime Up	52	8.34	2	5	50	Fill lines with 5 bbls fresh water
8	1/21/18 1328	Operational	Pressure Test	54					Pressure test lines to 3000 psi
9	1/21/18 1333	Operational	Pump Spacer	56	8.34	5	20	150	Pump 20 bbls water spacer with dye
10	1/21/18 1348	Operational	Pump Tail Cement	60	14.5	5	178	300	Pump 178 bbls cement @ 14.5 ppg (721 sks, 1.39 Y, 6.78 gal/sk)
11	1/21/18 1433	Operational	Other (See comments)	76					Shutdown
12	1/21/18 1435	Operational	Drop Top Plug	63					Drop top plug
13	1/21/18 1436	Operational	Pump Displacement	64	8.5	5	100	200	Pump 122 bbls displacement
14	1/21/18 1451	Operational	Spacer Back to Surface	65					Spacer back to surface at 60 bbls away, 20 bbls spacer to surface
15	1/21/18 1455	Operational	Cement Back to Surface	66					Cement back to surface at 80 bbls away, 42 bbls of cement to surface
16	1/21/18 1459	Operational	Other (See comments)	76	8.5	3	22	500	Slow rate to 2 bpm at 100 bbls away
17	1/21/18 1506	Operational	Land Plug	67					Landed plug at calculted 122 bbls final pressure was 600 psi and took to 1300 psi
18	1/21/18 1509	Operational	Check Floats	68					Check floats, floats holding, 0.5 bbls back
19	1/21/18 1530	Operational	Safety Meeting	53					Safety meeting
20	1/21/18 1545	Operational	Rig Down	73					rigged down all equipment
21	1/21/18 1630	Mobilization	Leave Location	74					Crew departed location

Customer: Bonanza Creek
Well Number: 21-24-22-HC
Lease Info: North Platte Fed

Print Date/Time
1/21/2018 3:27:12 PM



	Name	Y value	X value/time stamp	Tag name Y
1	DS - Press(PSI)	1335.4	1/21/2018 2:58:20 PM	Cementer\DS_DISCHARGE_PRESS_DIAL
2	Recirc - Density (PPG)	8.5	1/21/2018 2:58:22 PM	Cementer\DENSITY_ACTUAL_RATE
3	Down Hole Total (BBLS)	116.5 i.	1/21/2018 2:58:22 PM i.	Cementer\DOWNHOLE_FLOW_TOTAL
4	Combined rate (BPM)	0.00 i.	1/21/2018 2:58:22 PM i.	Cementer\Flow_Combined
5				

Source: Control1 3:27:06 PM