



Bonanza Creek Energy Production

State North Platte A-E-26HNB

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

Quote #:

| Execution #:



Bonanza Creek Energy

Attention: Mr. Joel Dill | (720) 633-5871 | jdill@bonanzacrk.com

Bonanza Creek Energy | 410 17th Street 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	A-E-26HNB State North Platte
End Date	12/30/2017	County	WELD
Client	BONANZA CREEK ENERGY	State/Province	CO
Client Field Rep		API	05-123-44485
Service Supervisor		Formation	
Field Ticket No.		Rig	Xtreme 19
District	Cheyenne, WY	Type of Job	Long String

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Casing	4.89	5.50	17.00	11,014.00	6,375.00			
Previous Casing	8.92	9.63	36.00	1,609.00	1,609.00			
Open Hole	8.50			11,014.00	6,375.00	10.00		

Shoe Length (ft): 42

HARDWARE

Bottom Plug Used?	No	Tool Type
Bottom Plug Provided By		Tool Depth (ft)
Bottom Plug Size		Max Tubing Pressure - Rated (psi)
Top Plug Used?	No	Max Tubing Pressure - Operated (psi)
Top Plug Provided By		Max Casing Pressure - Rated (psi)
Top Plug Size		Max Casing Pressure - Operated (psi)
Centralizers Used	No	Pipe Movement
Centralizers Quantity		Job Pumped Through
Centralizers Type		Top Connection Thread
Landing Collar Depth (ft)	10,972	Top Connection Size

CIRCULATION PRIOR TO JOB

Cementing Treatment



Well Circulated By		Solids Present at End of Circulation	No
Circulation Prior to Job	No	10 sec SGS	
Circulation Time (min)		10 min SGS	
Circulation Rate (bpm)		30 min SGS	
Circulation Volume (bbls)		Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)		Gas Units	
Mud Density Out (ppg)			
PV Mud In			
PV Mud Out			
YP Mud In			
YP Mud Out			

TEMPERATURE

Ambient Temperature (°F)	Slurry Cement Temperature (°F)
Mix Water Temperature (°F)	Flow Line Temperature (°F)

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	CD Spacer	11.5000					40.0000
Lead Slurry	P100-X2	12.5000	2.0758	11.84	621	1,288.0000	229.3000
Tail Slurry	P50-X1	13.5000	1.4774	7.45	1,030	1,521.0000	270.9000
Displacement 1	Retarder Water	8.3300				0.0000	20.0000
Displacement Final	Water	8.3300				0.0000	235.1000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	CD Spacer	SAND, S-8, Silica Flour, 200 Mesh	100.00	PCT

Cementing Treatment



Spacer / Pre Flush / Flush	CD Spacer	ASF-20	0.50	GPB
Spacer / Pre Flush / Flush	CD Spacer	ASF-80	0.50	GPB
Spacer / Pre Flush / Flush	CD Spacer	AVS-10	0.90	PPB
Spacer / Pre Flush / Flush	CD Spacer	RETARDER, HIGH TEMP, R-31 (BJS Only)	0.51	PPB
Spacer / Pre Flush / Flush	CD Spacer	EXTENDER, BENTONITE	5.00	PPB
Lead Slurry	P100-X2	CEMENT, ASTM TYPE III	100.00	PCT
Lead Slurry	P100-X2	FP-25, Dry Foam Preventer (BJS Only)	0.30	BWOB
Lead Slurry	P100-X2	FLUID LOSS, FL-24, (BJS Only)	0.30	BWOB
Lead Slurry	P100-X2	BONDING AGENT, BA-59	0.40	BWOB
Lead Slurry	P100-X2	RETARDER, HIGH TEMP, R-31 (BJS Only)	0.18	BWOB
Lead Slurry	P100-X2	AVS-20	0.10	BWOB
Lead Slurry	P100-X2	IntegraSeal CELLO	0.13	LBS/SK
Tail Slurry	P50-X1	CEMENT, CLASS G	50.00	PCT
Tail Slurry	P50-X1	FP-25, Dry Foam Preventer (BJS Only)	0.30	BWOB
Tail Slurry	P50-X1	AFA-10	50.00	PCT
Tail Slurry	P50-X1	AR-20	0.10	BWOB
Tail Slurry	P50-X1	FLUID LOSS, FL-66	0.20	BWOB
Tail Slurry	P50-X1	EXTENDER, BENTONITE	2.00	BWOB
Tail Slurry	P50-X1	GELLANT WATER, GW-86	0.10	BWOB
Displacement 1	Retarder Water	AR-61	0.10	GPB
Displacement Final	Water	BIOCIDE, ALPHA 544	0.01	GPB

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
	CD Spacer	5.00	40.00			
	P100-X2	5.00	229.30			
	P50-X1	5.00	270.90			
	Retarder Water	5.00	20.00			
	Water	5.00	235.10			

Cementing Treatment



	Min	Max	Avg
Pressure (psi)			
Rate (bpm)			

DISPLACEMENT AND END OF JOB SUMMARY

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

CEMENT PLUG

Bottom of Cement Plug?	No	Wiper Balls Used?	No
Wiper Ball Quantity		Plug Catcher	No
Number of Plugs			

SQUEEZE

Injection Rate (bpm)		Fluid Density (ppg)	
Injection Pressure (psi)		ISIP (psi)	
Type of Squeeze		FSIP (psi)	
Operators Max SQ Pressure (psi)			

COMMENTS

Treatment Report

Customer Name Bonanza Creek
 Well Name State North Platte A-E-26f
 Job Type Long String

District Cheyenne
 Supervisor Orlando Fuentes
 Engineer _____



Seq No.	Start Date/Time	Event	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	10/19/2017 16:00	Call Out						BJ Services Crew Gets Called Out
2	10/19/2017 17:00	Depart Facility						BJ Services Crew Departs Facility Cheyenne Wy
3	10/19/2017 20:00	Arrive On Location	48					BJ Services Crew Arrives On Location
4	10/19/2017 21:00	Pre Rig Up Meeting						BJ Services Crew Had a Pre Rig Up Meeting
5	10/19/2017 22:00	Rig Up	50					BJ Services Crew Rigs Up Pump And Iron
6	10/20/2017 0:00	Waiting						BJ Services Crew was Waiting For Rig Gto Run Casing
7	10/20/2017 3:30	Safety Meeting						BJ Services Crew Had A Safety Meeting With Rig Hands And Co Man / Went Over Job Procedure
8	10/20/2017 3:53	Pressure Test	54				4000	Pressure Test Pumps And Lines To 4000 Psi
9	10/20/2017 4:00	Pump CD Sapper		11.5	4	40	260	Pumped 40 BBL CD Sapper At 4 Bpm W/260 psi
10	10/20/2017 4:08	Pump Lead Cement		12.5	6	229.31	277	Pumped 229.31 BBL (622 sks 12.5 ppg 2.07 yld 11.81 g/sk) Of Lead Cement At 6 Bpm W/277 psi
11	10/20/2017 4:48	Start Pumping Tail		13.5	6		342	Start Pumping Tail Cement At 6 Bpm W/ 342 psi
12	10/20/2017 4:51	Slow Down Rate		13.5	3	15	98	At 15 BBL Into Tail Cement Slow Down Rate Due To Rig Ran Out Off Fresh Water For Cement Job At 3 Bpm W/98 Psi
13	10/20/2017 4:55	Slow Down Rate		13.5	2	25	173	At 25 BBL Away Slow Down Rate To 2 Bpm W/173 psi
14	10/20/2017 5:03	Slow Down Rate		13.5	1.5	45	117	At 45 BBL Away Slow Down Rate To 1.5 Bpm W/117 psi
15	10/20/2017 7:26	Speed Up Rate		13.5	4	200	199	At 200 BBL Away Speed Up Rate To 4 Bpm W/199 Psi (Water Trucks Showed Up On Location)
16	10/20/2017 7:34	Speed Up Rate		13.5	6	230	251	At 230 BBL Away Speed Up Rate To 6 Bpm W/251 psi (Pumped Total Of 1032 sks 13.5 ppg 1.47 yld 7.43 g/sk Tail Cement)
17	10/20/2017 7:43	Shut Down						Shut Down Pumping Cement
18	10/20/2017 7:45	Wash Pumps /Lines						Wash Pumps And Lines To Pit
19	10/20/2017 7:52	Start Displacement		8.33	8		150	Start Pumping H2o Disp At 8 Bpm W/ 150 Psi (Frist 20 BBL W/1 gal AR-61) And Biocic
20	10/20/2017 8:15	Spacer To Surface		8.33	8	149	1814	At 149 BBL Into Disp Got Spacer To Surface At 8 Bpm W/1814 psi
21	10/20/2017 8:18	Cement To Surface		8.33	8	189	2179	At 189 BBL Into Disp Got Cement To Surface At 8 Bpm W/1922 psi
22	10/20/2017 8:24	Slow Down Rate		8.33	3	235	1922	At 235 BBL Away into Disp Slow Down Rate To 3 Bpm W/1922 psi
23	10/20/2017 8:30	Land Plug		8.33	3	254	2139	Land Plug At 254 BBL Away Final Circ. Pressure Was 2139 psi , Bumped Plug To 3099 psi
24	10/20/2017 8:33	Check Floats						Check Floats Got 3 BBL Back
25	10/20/2017 9:00	Pre Rig Down Meeting						BJ Services Crew Had A Pre Rig Down Meeting
26	10/20/2017 10:00	Rig Down						BJ Services Crew Rigs Down Pump And Iron
27	10/20/2017 11:00	Depart Location						BJ Services Crew Departs Location
28	10/20/2017 0:00	Other						Spacer To Surface - 40 bbl
29	10/20/2017 0:00	Other						Cement To Surface - 65 BBL
30	10/20/2017 0:00	Other						Calculated Top Of Tail Cement - 4398.2'
31								
32								



Print Date/Time

10/20/2017 9:46:20 AM

Customer: Bonanza Creek
 Well Number: A-E-26HNB
 Lease Info: State North Platte



Name	Y value	X value/time stamp	Tag name Y
1 DS - Press (PSI)	-15.8 i.	10/20/2017 8:30:00 AM i.	CementerDS_DISCHARGE_PRESS_DIAL
2 DH - Density (PPG)		10/20/2017 8:30:00 AM l.	CementerDENSITY2_ACTUAL_RATE
3 Combined Rate (BPM)	0.00	10/20/2017 8:30:02 AM	CementerFlow_Combined
4 Down Hole Total (BBLs)	0.0	10/20/2017 8:30:02 AM	CementerDOWNHOLE_FLOW_TOTAL
5			

Source: Control1 9:46:14 AM