



Bonanza Creek Energy

Surface Post Job Report

Mustang V41-34-33XRLNB

S:34 T:4N R:63W Weld CO

Quote #:

03643

I Execution #:

02079



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@bjsservices.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	Mustang V41-34-33XRLNB
End Date	12/30/2017	County	Weld
Client	BONANZA CREEK ENERGY	State/Province	CO
Service Supervisor	Eric Dewit	API	05-123-46001
District	Cheyenne, WY	Rig	Xtreme 19
		Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)	Grade	Thread
Open Hole	13.50			1,713.00	1,713.00	30.00		
Casing	8.92	9.63	36.00	1,702.00	1,702.00		J-55	LTC

Shoe Length (ft.): 42

HARDWARE

Bottom Plug Used?	No	Tool Type	None
Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	2816
Top Plug Provided By	Rig	Max Casing Pressure - Operated (psi)	1500
Top Plug Size	9.625	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Cement Head
Centralizers Type	Bow Spring	Top Connection Thread	LTC
Landing Collar Depth (ft)	1,657	Top Connection Size	9.625

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Lost Circulation Prior to Cement Job	No
Circulation Prior to Job	Yes	Solids Present at End of Circulation	No
Circulation Time (min)	30	Flare Prior to/during the Cement Job	No
Circulation Rate (bpm)	7	Gas Present	No
Circulation Volume (bbls)	210		

Cementing Treatment



TEMPERATURE

Ambient Temperature (°F) 23 Mix Water Temperature (°F) 35

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	790	1,098.0000	195.4000
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	14.5000	1.3901	6.78	151	209.0000	37.2000
Displacement Final	Water (Final)	8.3308				0.0000	128.2000

Fluid Type	Fluid Name	Component	Concentration	UOM
Tail Slurry	S100-X2 (Primary)	CEMENT, ASTM TYPE III	100.00	PCT
Tail Slurry	S100-X2 (Primary)	FOAM PREVENTER, FP-13L	0.03	GALS/SK
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	FOAM PREVENTER, FP-13L	0.03	GALS/SK
Top-Out / Scavenger Slurry	S100-X2 (Top-Out)	CEMENT, ASTM TYPE III	100.00	PCT

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Annulus Pressure (psi)	Comments
8:44	Water (Pre-flush)	5.00	20.00	260		
8:50	S100-X2 (Primary)	5.00	195.40	240		
	S100-X2 (Top-Out)	5.00	37.20			
10:02	Water (Final)	5.00	128.20	223		

	Min	Max	Avg
Pressure (psi)	85	4000	
Rate (bpm)	2	5	

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	43
Calculated Displacement Volume (bbls)	128	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	128	Amount of Spacer to Surface	20
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0
Bump Plug	Yes	Amount Bled Back After Job	.5
Bump Plug Pressure (psi)	1031	Total Volume Pumped (bbls)	345
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Yes	Lost Circulation During Cement Job	No

Job Summary

We were unable to displace with the desired fluid due to the rigs transfer pump and lines being frozen. We also had to slow rate during the job due to the rigs Cellar pump having issues keeping up with the rate of the returns. We got 43 bbls of cement to surface, landed the plug at calculated displacement of 128 bbls, and the floats held.



Customer Name Bonanza Creek
 Well Name Mustang V41-34-33XRLNB
 Job Type Surface

District Cheyenne
 Supervisor Eric Dewit
 Engineer

Seq No.	Start Date/Time	Category	Event	Equipment	Event ID	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	12/21/2017 0:30	Mobilization	Callout		1					Customer calls with an RTS of 5:30
2	12/21/2017 5:03	Mobilization	Arrive on Location		48					Arrive on location, rig is running casing
3	12/21/2017 5:25	Operational	Safety Meeting		53					Have a STEACS Briefing with crew before spotting trucks on location
4	12/21/2017 5:40	Operational	Spot Units		49					
5	12/21/2017 5:50	Operational	Rig Up		50					Rig up water, bulk, and mud lines, have to wait for the casing truck to move in order to rig up the our high pressure line
6	12/21/2017 7:00	Operational	Rig Up		50					Rig is done running casing, rig up our high pressure line, and the cement head for rig to circulate through
7	12/21/2017 7:52	Operational	Safety Meeting		53					Pre-job safety meeting with the company man, and the rig crew
8	12/21/2017 8:36	Operational	Start Pumping		55	8.34	2	2	85	Load lines with 2 bbls of fresh water
9	12/21/2017 8:40	Operational	Pressure Test		54	8.34	0	0	4000	Pressure test pumps and lines
10	12/21/2017 8:44	Operational	Pump Spacer		56	8.34	5	20	260	Pump 20 bbls of fresh water ahead
11	12/21/2017 8:50	Operational	Pumping Cement		61	14.5	5	0	240	Pump 790 sacks of surface cement @14.5 ppg (195 bbls) Yield: 1.39 Mix water: 6.76
12	12/21/2017 9:21	Operational	Other (See comments)		76	14.5	3.5	88	152	Had to slow rate, rig was having a problem with their cellar pump.
13	12/21/2017 9:28	Operational	Other (See comments)		76	14.5	0	110	0	Had to shut down briefly so the rig could get their pump working
14	12/21/2017 9:33	Operational	Other (See comments)		76	14.5	3.2		107	Start pumping again at a reduced rate so the rigs pump could keep up
15	12/21/2017 9:50	Operational	Other (See comments)		76	14.5	4.5	170	250	Increase pump rate
16	12/21/2017 9:57	Operational	Drop Top Plug		63	14.5	0	195	0	Shut down, and drop the top plug
17	12/21/2017 10:02	Operational	Pump Displacement		64	8.34	5	0	223	Start displacement, used fresh water instead of OBM. The rigs transfer pump for the mud was frozen
18	12/21/2017 10:23	Operational	Pump Displacement		64	8.34	5	50	356	Fresh water displacement
19	12/21/2017 10:24	Operational	Other (See comments)		76	8.34	4	58	258	Had to slow pump rate for the cellar pump to keep up
20	12/21/2017 10:30	Operational	Cement Back to Surface		66	8.34	4	85	435	Start getting good cement to surface
21	12/21/2017 10:34	Operational	Other (See comments)		76	8.34	2.5	100	485	Drop rate to to land the plug
22	12/21/2017 10:50	Operational	Land Plug		67	8.34	2.5	128	1031	Land the plug @603 psi, Bumped it up to 1031 psi (43 bbls of cement to surface)
23	12/21/2017 10:55	Operational	Check Floats		68	8.34	0	0	0	Check floats (floats held) .5 bbls back
24	12/21/2017 11:05	Operational	Safety Meeting		53					Pre-rig down safety meeting
25	12/21/2017 11:15	Operational	Rig Down		73					Rig everything down
26	12/21/2017 12:15	Mobilization	Leave Location		74					Leave location



JobMaster Program Version 4.02C-1
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Customer: Mustang V41-34-33XRLNB
Well Name:

