



Bonanza Creek Energy

PRODUCTION POST JOB REPORT

North Platte #J-F-23HNB 05-123-44436
S:26 T:5N R:63W Weld CO

CallSheet #: 1487
Proposal #: 13928



PRODUCTION Post Job Report

Attention: Mr. Joel Dill | (720) 633-5871 | jdill@bonanzacrk.com
Bonanza Creek Energy
410 17th Street Suite 1400 | 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,

Jason Creel

Field Engineer | (307) 256-0306 | Jason.Creel@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
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1 Job Details & Summary

1.1 Geometry

Type	Function	OD (in)	ID (in)	Weight (lb/ft)	Thread	Top (ft)	Bottom (ft)	Excess (%)
Casing	Outer	9.625	8.921	36	n/a	0	1671	0
Open Hole	Outer	n/a	8.5	n/a	n/a	1671	11010	10
Casing	Inner	5.5	4.892	17	n/a	0	11005	0

1.2 Equipment / People

Unit Type	Unit	Employee #1	Mileage
Silo	675		114
Silo	193		114
Bulk Trailer	PPC41309	Gabel, Dustin	114
Cement Pump	101	Beal, Scott	114
Light Duty Pickups	5	Hyde, Zach	114
Light Duty Pickups	20	Bell, Wesley	114

1.3 Timing

Event	Date/Time
Call Out	10/7/2017 10:00
Depart Facility	10/7/2017 14:30
On Location	10/7/2017 16:40
Rig Up Iron	10/7/2017 17:00
Job Started	10/7/2017 21:20
Job Completed	10/7/2017 23:52
Rig Down Iron	10/8/2017 00:00
Depart Location	10/8/2017 01:00

1.4 General Job Information

Metrics	Value
Well Fluid Density	9.3 lb/gal
Well Fluid Type	OBM
Rig Circulation Vol	1100 bbls
Rig Circulation Time	2.5 hours
Calculated Displacement	254.3 bbls
Actual Displacement	250 bbls
Total Spacer to Surface	40 bbls
Total CMT to Surface	30 bbls

1.5 Well Fluid Details

Metrics	Value
Plastic Viscosity	11
Yield Point	10
10 sec. SGS	6
10 min. SGS	7
30 min. SGS	9
Filtrate	9.7
Flow Line Temp.	108

1.6 Job Details

Metrics	Value
Flare Prior to Job	No
Flare During Job	No
Flare at End of Job	No
Well Full Prior to Job	Yes
Well Fluid Density Into Well	9.3 lb/gal
Well Fluid Density Out of Well	9.3 lb/gal

1.7 Job Details (cont.)

Metrics	Value
BHCT	220 °F
BHST	220 °F



1.8 Circulation

Lost Circulation Experienced
No

1.9 Job Execution Information

Job	Fluid	Product	Function	Density (lb/gal)	Yield (ft ³ /sk)	Water Rq. (gal/sk)	Water Rq. (gal/bbl)	Volume (sks)	Volume (bbl)	Top (ft)
1	1	CD Spacer	Spacer	11.00			32.75		40.00	0
1	2	P100-X2	Lead	12.50	2.07	11.81		622.00	230.00	0
1	3	P50-X1	Tail	13.50	1.47	7.43		1027.00	269.73	5000
1	4	MMCR Water	Displacement	8.33			41.90		20.00	10084
1	5	Water	Displacement Final	8.33			41.99		234.00	0

1.10 Job Fluid Details

Job	Fluid	Type	Fluid	Product	Function	Conc.	Uom	Start (gal)	End (gal)	Used (gal)
1	1	Spacer	CD Spacer	ASR-20	StrengthRetrogression	179.85	lb/bbl			
1	1	Spacer	CD Spacer	AR-31	Retarder	0.51	lb/bbl			
1	1	Spacer	CD Spacer	ASF-20	Surfactant	0.50	gal/bbl	20	0	20
1	1	Spacer	CD Spacer	ASF-80	Surfactant	0.50	gal/bbl	20	0	20
1	1	Spacer	CD Spacer	AVS-10	Viscosifier	0.80	lb/bbl			
1	2	Lead	P100-X2	AC3-10	Cement	100.00	%			
1	2	Lead	P100-X2	ABX-30	BondEnhancer	0.40	%BWOB			
1	2	Lead	P100-X2	ADF-11	Defoamer	0.30	%BWOB			
1	2	Lead	P100-X2	AFL-10	FluidLoss	0.30	%BWOB			
1	2	Lead	P100-X2	ALC-10	LostCirculation	0.13	lb/sk			
1	2	Lead	P100-X2	AR-31	Retarder	0.18	%BWOB			
1	2	Lead	P100-X2	AVS-20	Viscosifier	0.10	%BWOB			
1	3	Tail	P50-X1	ACG-10	Cement	50.00	%			
1	3	Tail	P50-X1	AFA-10	Extender	50.00	%			
1	3	Tail	P50-X1	ADF-11	Defoamer	0.30	%BWOB			
1	3	Tail	P50-X1	AFL-50	FluidLoss	0.20	%BWOB			



1	3	Tail	P50-X1	AR-20	Retarder	0.10	%BWOB			
1	3	Tail	P50-X1	AVS-10	Viscosifier	0.10	%BWOB			
1	3	Tail	P50-X1	AVS-50	Viscosifier	2.00	%BWOB			
1	4	Displacement	MMCR Water	AR-61	Retarder	0.10	gal/bbl	2	0	2
1	5	Displacement Final	Water	Biocide	Other	0.01	gal/bbl	5	0	5
1	5	Displacement Final	Water	ASF-50	Clay Protection	0.08	gal/bbl	20	0	20



2 Job Logs

Line	Event	Date (MM/DD/YY)	Time (HH:MM)	Density (lb/gal)	Pump Rate (bpm)	Pump Volume (bbls)	Pipe Pressure (psi)	Comment
1	Arrive on location	10/7/2017	16:15					Arrive on location, requested time 18:00
2	Rig In	10/7/2017	16:40					Spot and rig in all pump and bulk units. Rig in all iron, water, and bulk lines.
3	Waiting	10/7/2017	18:10					Wait on rig to circulate 2 bottoms up
4	Safety Meeting	10/7/2017	20:30					Hold pre-job STEACS meeting with rig crew and pump crew. Discuss job procedure and job hazards.
5	Fill Lines	10/7/2017	21:20	8.34	2	2	200	Fill lines with fresh water
6	Pressure Test	10/7/2017	21:23	8.34			4600	Pressure Test lines to 4600psi, good test, no leaks
7	Pump Spacer	10/7/2017	21:28	11	5	40	500	Pump 40bbls of Spacer at 11ppg
8	Pump Lead	10/7/2017	21:38	12.5	7	230	600	Pump 230bbls of Lead Cement at 12.5ppg, 622sks Y: 2.07, WR: 11.81, 175bbls of mix water. Top of lead at surface
9	Pump Tail	10/7/2017	22:14	13.5	7	270	650	Pump 270bbls of Tail Cement at 13.5ppg, 1027sks Y: 1.47, WR: 7.43, 182bbls mix water. Top of tail @ 4412psi
10	Shut Down/ Clean lines	10/7/2017	22:53					Finish mixing and pump cement, Shut in Head, Clean pumps and lines to rig tank
11	Drop Plug	10/7/2017	22:58					Drop 5.5" top rubber latch down plug,
12	Start Displacement	10/7/2017	22:59	8.34	7			Start displacement, Total calculated volume 254.3. Fresh water with 2gal AR-61 in first 20bbls, Biocide and ASF-50 Clay control in all of displacement.
13	Pump	10/7/2017	23:07	8.34	7	50	500	50bbls of Displacement away
14	Pump	10/7/2017	23:15	8.34	7	50	1100	100bbls of Displacement away
15	Pump	10/7/2017	23:23	8.34	6	50	1800	150bbls of Displacement away
16	Pump	10/7/2017	23:32	8.34	6	50	2300	200bbls of Displacement away, spacer to surface at 180away.
17	Shut Down	10/7/2017	23:36	8.34	0	25		225bbls of displacement away, Shut down, switch flow back tanks, switch water tanks.
18	Pump	10/7/2017	23:39	8.34	6			Start pumping
19	Slow Rate	10/7/2017	23:42	8.34	3	11	2000	234bbls away in displacement, Slow for last 20bbls
20	Land Plug	10/7/2017	23:49	8.34	3	15	2000	250bbls away in displacement, land plug, final circulating pressure



								was 2000psi, bumped up to 3000psi
21	Check Floats	10/7/2017	23:52	8.34				2.5bbls back to pump, floats held,
22	Job Complete	10/7/2017	23:55					
23	Rig Out	10/8/2017	00:00					
24	Leave Location	10/8/2017	01:00					

3 Pump Diagrams

