



Bonanza Creek Energy

Wetco Farms 21-4-9MRLNB

API # 05-123-47808

Production

11/11/2018

Quote #: 21335

Execution #: 12908



Bonanza Creek Energy

Attention: Mr. Adam Conry | (303) 883.3351 | AConry@bonanzacrk.com

Bonanza Creek Energy | 410 17th St Suite 1400 | Denver, CO. 80202

Dear Mr. Adam Conry,

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,
Gage Putnam
Field Engineer I | (307) 887-4243 | Gage.Putnam@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	11/10/2018	Well	WETCO FARMS 21-4-9MRLNB
End Date	11/11/2018	API#	05-123-47808
Client	Bonanza Creek Energy	County	WELD
Service Sup.	Travis Tolman	State/Province	CO
District	Cheyenne, WY	Formation	NIOBRARA
Type of Job	Long String	Rig	Akita 520
Execution ID	EXC-12908-T8H2P002	Project ID	PRJ1012539

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	TVD (ft)	Excess(%)
Previous Casing	8.92	9.63	36.00	1,600.00	1,610.00	
Open Hole	8.50	0.00	0.00	13,955.00	6,307.00	12.50
Casing	4.89	5.50	17.00	13,945.00	6,307.00	

Shoe Length (ft): 47.00

HARDWARE

Top Plug Used?	Yes	Max Casing Pressure - Rated (psi)	10,640.00
Top Plug Provided By	Non BJ	Max Casing Pressure - Operated (psi)	4,000.00
Top Plug Size	5.500	Pipe Movement	None
Centralizers Used	Yes	Job Pumped Through	Manifold
Centralizers Quantity	135.00	Top Connection Thread	8RND
Centralizers Type	Bow	Top Connection Size	5.5
Landing Collar Depth (ft)	13,898		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	6.00
Circulation Time (min)	120.00	10 min SGS	8.00
Lost Circulation Prior to Cement Job	No	30 min SGS	11.00
Mud Density In (ppg)	9.60	Flare Prior to/during the Cement Job	No
PV Mud In	11	Gas Present	No
YP Mud In	5		

TEMPERATURE

Ambient Temperature (°F)	37.00	Mix Water Temperature (°F)	40.00
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Cementing Treatment



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	2.1538	12.23	0.00	5000	610	1,307.0000	233.5000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4772	7.45	5,000.00	8935.14	1562	2,309.0000	408.9000
Displacement 2	Retarded Water	8.3337			13,244.00	0	0	0.0000	20.0000
Displacement Final	Displacement Final (Water)	8.3308			0.00			0.0000	303.0000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, R-31	0.5000	PPB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.2000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01C	EXTENDER, BENTONITE	4.0000	BWOB
Lead Slurry	BJCem P100.3.01C	FLUID LOSS, FL-24	0.3000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.4000	BWOB
Lead Slurry	BJCem P100.3.01C	IntegraSeal POLI	0.1300	LBS/SK
Lead Slurry	BJCem P100.3.01C	BONDING AGENT, BA-60	0.4000	BWOB
Tail Slurry	BJCem P50.6.02C	EXTENDER, BENTONITE	2.0000	BWOB
Tail Slurry	BJCem P50.6.02C	RETARDER, SR-20	0.0700	BWOB
Tail Slurry	BJCem P50.6.02C	CEMENT, CLASS G	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	IntegraGuard GW-86	0.1000	BWOB
Tail Slurry	BJCem P50.6.02C	FLUID LOSS, FL-66	0.2000	BWOB
Tail Slurry	BJCem P50.6.02C	Flyash (Rockies)	50.0000	PCT
Tail Slurry	BJCem P50.6.02C	FOAM PREVENTER, FP-25	0.3000	BWOB
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



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	83.00
Calculated Displacement Volume (bbls)	323.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	323.00	Amount of Spacer to Surface	60.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	4.00
Bump Plug Pressure (psi)	3,543.00	Total Volume Pumped (bbls)	1,027.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

EVENT LOG



Customer Name: Bonanza Creek Energy

Well Name: WETCO FARMS 21-4-9MRLNB

Job Type: Long String

Quote ID: QUO-21335-C7T7Q0

Plan ID: ORD-12908-T8H2P0

District: Cheyenne, WY

Execution ID: EXC-12908-T8H2P002

BJ Supervisor: Travis Tolman

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	11/10/2018 10:30	Callout					Crew called out for on location of 1630, pre- trip equipment
2	11/10/2018 13:13	Depart for Location					Crew heading to location
3	11/10/2018 15:03	Arrive on Location					Arrived on location, running casing, met with company man to get numbers and discuss job and safety issues
4	11/10/2018 17:15	Spot Units					Spot equipment
5	11/10/2018 17:30	STEACS Briefing					Held safety meeting with crew to discuss rig up, job tasks and safety
6	11/10/2018 17:45	Rig Up					Rigged up from equipment to floor
7	11/10/2018 19:30	STEACS Briefing					Held safety meeting with company man, rig hands and crew to discuss job and safety issues
8	11/10/2018 20:24	Other (See comment)	8.3000	2.00	3.00	120.00	Load pump and lines with fresh water
9	11/10/2018 20:28	Pressure Test	8.3000			5,470.00	Pressure test pump and lines with fresh water
10	11/10/2018 20:39	Pump Spacer	11.0000	3.70	20.00	272.00	Pump 20bbls of 11# spacer with chemicals
11	11/10/2018 20:45	Pump Spacer	12.0000	3.70	20.00	298.00	Pump 20bbls of 12# spacer with chemicals
12	11/10/2018 20:50	Pump Spacer	11.0000	3.70	20.00	272.00	Pump 20bbls of 11# spacer with chemicals
13	11/10/2018 21:04	Pump Lead Cement	12.5000	5.00	233.00	475.00	Pump 610sks/233.5bbls of lead cement at 12.5#-2.15Y-12.23gps
14	11/10/2018 22:09	Pump Tail Cement	13.5000	5.00	408.00	424.00	Pump 1562sks/408.9bbls of tail cement at 13.5#-1.47Y-7.45gps, top of tail at 3948'calculated
15	11/10/2018 23:41	End Pumping					Shut down, wash up pump and lines
16	11/10/2018 23:50	Drop Top Plug					Drop top plug witnessed by company man, tool hand and BJ rep
17	11/10/2018 23:57	Pump Displacement	8.3000	7.50	300.00	2,650.00	Pump fresh water displacement, first 20bbls with R-8, rest with Biocide
18	11/11/2018 00:41	Other (See comment)	8.3000	5.50	23.00	2,600.00	Slowed rate to land plug
19	11/11/2018 00:43	Land Plug				3,543.00	Bumped plug, Pump 323bbls of displacement, got 83bbls of cement to surface plus 60bbls of spacer

EVENT LOG



20	11/11/2018 00:48	Check Floats				3,619.00	Check float, held, got 4bbls back
21	11/11/2018 00:50	STEACS Briefing					Held safety meeting with crew to discuss rig down and safety issues
22	11/11/2018 01:00	Rig Down					Rigged down from rig floor to equipment
23	11/11/2018 03:00	Leave Location					Crew ready to leave location



JobMaster Program Version 4.02C1
Job Number: 11065
Customer: Bonanza Creek
Well Name: Wetco Farms 21-4-9MRLNB

