



Bonanza Creek Energy

Wetco Farms A11-4-9MRLNB

API # 05-123-47807

Production

10/30/2018

Quote #: 21324

Execution #: 12574



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	10/30/2018	Well	WETCO FARMS A11-4-9MRLNB
End Date	10/30/2018	API#	05-123-47807
Client	Bonanza Creek Energy	County	WELD
Service Sup.	Andrew Hyde	State/Province	CO
District	Cheyenne, WY	Formation	NIOBRARA
Type of Job	Long String	Rig	Akita 520
Execution ID	EXC-12574-K3S6B902	Project ID	PRJ1012172

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	1,600.00	
Open Hole	8.50	0.00	0.00	13,657.00	6,304.00	12.50
Casing	4.89	5.50	17.00	13,647.00	6,304.00	

Shoe Length (ft): 45.00

HARDWARE

Top Plug Used?	Yes	Landing Collar Depth (ft)	13,602
Top Plug Provided By	Non BJ	Tool Type	Float Collar
Top Plug Size	5.500	Tool Depth (ft)	13,602.00
Centralizers Used	Yes	Top Connection Thread	LTC
Centralizers Quantity	132.00	Top Connection Size	5.5
Centralizers Type	Bow		

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	PV Mud Out	9
Circulation Prior to Job	Yes	YP Mud In	4
Circulation Time (min)	120.00	YP Mud Out	4
Circulation Rate (bpm)	6.00	Solids Present at End of Circulation	No
Circulation Volume (bbls)	800.00	10 sec SGS	3.00
Lost Circulation Prior to Cement Job	No	10 min SGS	5.00
Mud Density In (ppg)	9.60	30 min SGS	9.00
Mud Density Out (ppg)	9.60	Flare Prior to/during the Cement Job	No
PV Mud In	9	Gas Present	No

TEMPERATURE

Ambient Temperature (°F)	40.00	Flow Line Temperature (°F)	140.00
Mix Water Temperature (°F)	60.00		

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 II	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	232.6000
Tail Slurry	BJCem P50.6.02C	13.5000	1.4772	7.45	5,000.00	8641.46	1512	2,233.0000	397.6000
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	296.2000

Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	SPACER SURFACTANT, SS-267	1.0000	GPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	WEIGHTING ADDITIVE, W-11	243.3100	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-7C	2.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	IntegraGuard GW-86	1.2000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer II	RETARDER, R-31	0.5000	PPB
Lead Slurry	BJCem P100.3.01C	IntegraGuard GW-86	0.2000	BWOB
Lead Slurry	BJCem P100.3.01C	RETARDER, SR-20	0.4000	BWOB
Lead Slurry	BJCem P100.3.01C	FOAM PREVENTER, FP-25	0.3000	BWOB
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	CEMENT, ASTM TYPE III	100.0000	PCT
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	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
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
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 Services	Amount of Cement Returned/Reversed	60.00
Calculated Displacement Volume (bbls)	315.50	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	315.50	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	3.50
Bump Plug Pressure (psi)	2,000.00	Total Volume Pumped (bbls)	1,004.00
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 A11-4-9MRLNB

Job Type: Long String

Quote ID: QUO-21324-F5F0R4

Plan ID: ORD-12574-K3S6B9

District: Cheyenne, WY

Execution ID: EXC-12574-K3S6B902

BJ Supervisor: Andrew Hyde

Seq.	Start Dt./Time	Event	Density (ppg)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	10/29/2018 18:00	Callout					BJ crew gets called out and requested on location at 0:00
2	10/29/2018 20:00	STEACS Briefing					BJ crew talks about the hazards of driving to location
3	10/29/2018 20:45	Depart for Location					Depart yard
4	10/29/2018 22:00	Arrive on Location					Arrive on location
5	10/29/2018 22:10	STEACS Briefing					BJ crew talks about the hazards of spotting in equipment and rigging up
6	10/29/2018 22:30	Rig Up					Rig up
7	10/30/2018 03:30	STEACS Briefing					BJ and rig crew talk about the hazards of pumping the job
8	10/30/2018 04:17	Prime Up	8.3300	2.00	3.00	190.00	Pump 3 bbls of water ahead
9	10/30/2018 04:21	Pressure Test					Pressure test pumps and lines to 5,500 psi
10	10/30/2018 04:30	Pump Spacer	11.0000	4.00	20.00	230.00	Pump 20 bbls of spacer at 11 ppg
11	10/30/2018 04:37	Pump Spacer	12.0000	4.00	20.00	200.00	Pump 20 bbls of spacer at 12 ppg
12	10/30/2018 04:42	Pump Spacer	11.0000	4.00	20.00	200.00	Pump 20 bbls of spacer at 11 ppg
13	10/30/2018 04:49	Pump Lead Cement	12.5000	7.00	232.00	400.00	Mix up and pump 610 sks of BJCem P100.3.01C cmt at 12.5 ppg, yield 2.15, 12.23 gal/sk, 232 bbls
14	10/30/2018 05:25	Pump Tail Cement	13.5000	7.00	397.00	450.00	Mix up and pump 1510 sks of BJCem L50.6.02C cmt at 13.5 ppg, yield 1.48, 7.45 gal/sk, 397 bbls
15	10/30/2018 06:28	Other (See comment)					Shutdown line out manifold to wash pumps and lines
16	10/30/2018 06:30	Wash Pumps and Lines					Wash pumps and lines to the pit
17	10/30/2018 06:35	Drop Top Plug					Customer witness plug leave manifold

EVENT LOG

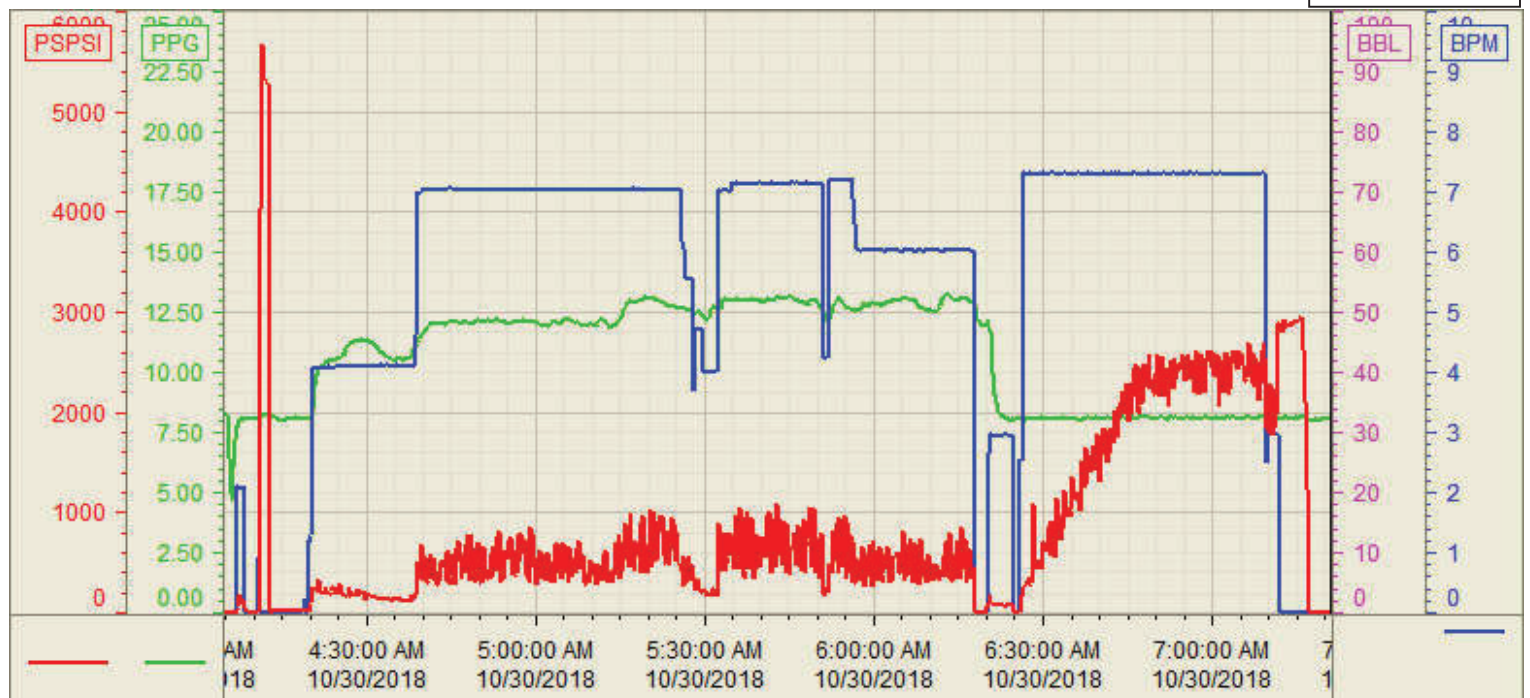


18	10/30/2018 06:36	Pump Displacement	8.3300	7.00	295.00	2,500.00	Pump 315.5 bbls of displacement
19	10/30/2018 07:20	Pump Displacement	8.3300	3.00	20.00	2,100.00	Slow rate the last 20 bbls to 3 bpm
20	10/30/2018 07:22	Land Plug					Bump plug at 2,000 psi, took it up 3,000 psi
21	10/30/2018 07:26	Check Floats					Got 3.5 bbls back to the truck
22	10/30/2018 07:30	STEACS Briefing					BJ crew talks about the hazards of rigging down
23	10/30/2018 07:45	Rig Down					Rig down
24	10/30/2018 09:00	Leave Location					Depart location
25	10/30/2018 09:01	Other (See comment)					Estimated top of tail at 3,917 ft, got 60 bbls cement to surface

Customer: Bonanza Creek
Well Number: A11-4-9MRLNB
Lease Info: Wetco Farms



Print Date/Time
10/30/2018 7:31:46 AM



	Name	Y value	X value/time stamp	Tag name Y
1	DSPSI	4.3 i.	10/30/2018 7:20:58 AM i.	CementenDS_DISCHARGE_PRESS_DIAL
2	BPM	0.00	10/30/2018 7:21:01 AM	CementenFlow_Combined
3	Den2 - Discharge Density (F	8.07	10/30/2018 7:20:55 AM	CementenDENSITY2_ACTUAL_RATE
4				
5				

Source: Control1 7:31:17 AM