



Laramie Energy

End of Well Cement Report

Nichols 0994-13-18E 05-077-10411

S:24 T:9S R:94W Mesa CO

Quote #: 05643/05644

| Execution #: 03503/03598



Laramie Energy

Attention: Mr. Aaron Duncan | (303) 339-4913 | aduncan@laramie-energy.com

Laramie Energy | 1401 17th St, Suite 1400 | Denver, CO 80202

Dear Mr. Duncan,

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 28730 US-6, Rifle, CO 81650
Phone: (970) 632-2412

Sales Office 999 18th St. Suite 1200 Denver, CO 80202
Phone: (281) 408-2361

Cementing Treatment



Start Date	2/7/2018	Well	Nichols 0994-13-18E
End Date	2/7/2018	County	MESA
Client	LARAMIE ENERGY	State/Province	CO
Client Field Rep	Roger Foster	API	05-077-10411
Service Supervisor	Javier Castillo	Formation	-
Field Ticket No.	Surface	Rig	H&P 290
District	Rifle, CO	Type of Job	Surface

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	Excess(%)	Grade	Thread
Previous Casing	15.25	16.00	65.00	60.00	0.00		
Open Hole	11.00			1,569.00	75.00		
Casing	8.10	8.63	24.00	1,559.00		J-55	ST&C

Shoe Length (ft): 47

HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	1511.00
Bottom Plug Size	8.625	Max Tubing Pressure - Rated (psi)	-
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	-
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	2,950.00
Top Plug Size	8.625	Max Casing Pressure - Operated (psi)	2,360.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	19.00	Job Pumped Through	Manifold
Centralizers Type	Bow	Top Connection Thread	8RD
Landing Collar Depth (ft)	1,515	Top Connection Size	8.625

Cementing Treatment



CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	5.00
Circulation Time (min)	150.00	10 min SGS	21.00
Circulation Rate (bpm)	2.00	30 min SGS	57.00
Circulation Volume (bbls)	300.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	9.50	Gas Units	0
Mud Density Out (ppg)	-		
PV Mud In	21		
PV Mud Out	-		
YP Mud In	16		
YP Mud Out	-		

TEMPERATURE

Ambient Temperature (°F)	25.00	Slurry Cement Temperature (°F)	80.00
Mix Water Temperature (°F)	70.00	Flow Line Temperature (°F)	87.00

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	Fresh Water	8.33					40.00
Lead Slurry	S100-12	12.00	2.5329	14.89	191	480.00	86.00
Tail Slurry	S100-12	12.50	2.2282	12.62	107	237.00	42.10
Displacement Final	Water	8.33				0.00	96.50

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	S100-12	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	S100-12	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	S100-12	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	S100-12	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	S100-12	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.0000	LBS/SK
Lead Slurry	S100-12	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	S100-12	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	S100-12	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	S100-12	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	S100-12	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	S100-12	CEMENT EXTENDER, SODIUM METASILICATE, A-2	2.0000	LBS/SK
Tail Slurry	S100-12	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Comments
2/7/2018 11:15 PM	Fresh Water	5.00	40.00	294.00	SPACER
2/7/2018 11:21 PM	S100-12	5.00	86.00	275.00	LEAD
2/7/2018 11:35 PM	S100-12	5.00	42.10	195.00	TAIL
2/7/2018 11:54 AM	Water	5.50	96.50	527.00	DISPLACEMENT

	Min	Max	Avg
Pressure (psi)	99.00	527.00	313.00
Rate (bpm)	5.00	5.50	5.25

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	35.00
Calculated Displacement Volume (bbls)	96.50	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	96.50	Amount of Spacer to Surface	
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.75
Bump Plug Pressure (psi)	309.00	Total Volume Pumped (bbls)	265.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

Customer Name LARAMIE
 Well Name NICHOLS 0994-13-18E
 Job Type SURFACE

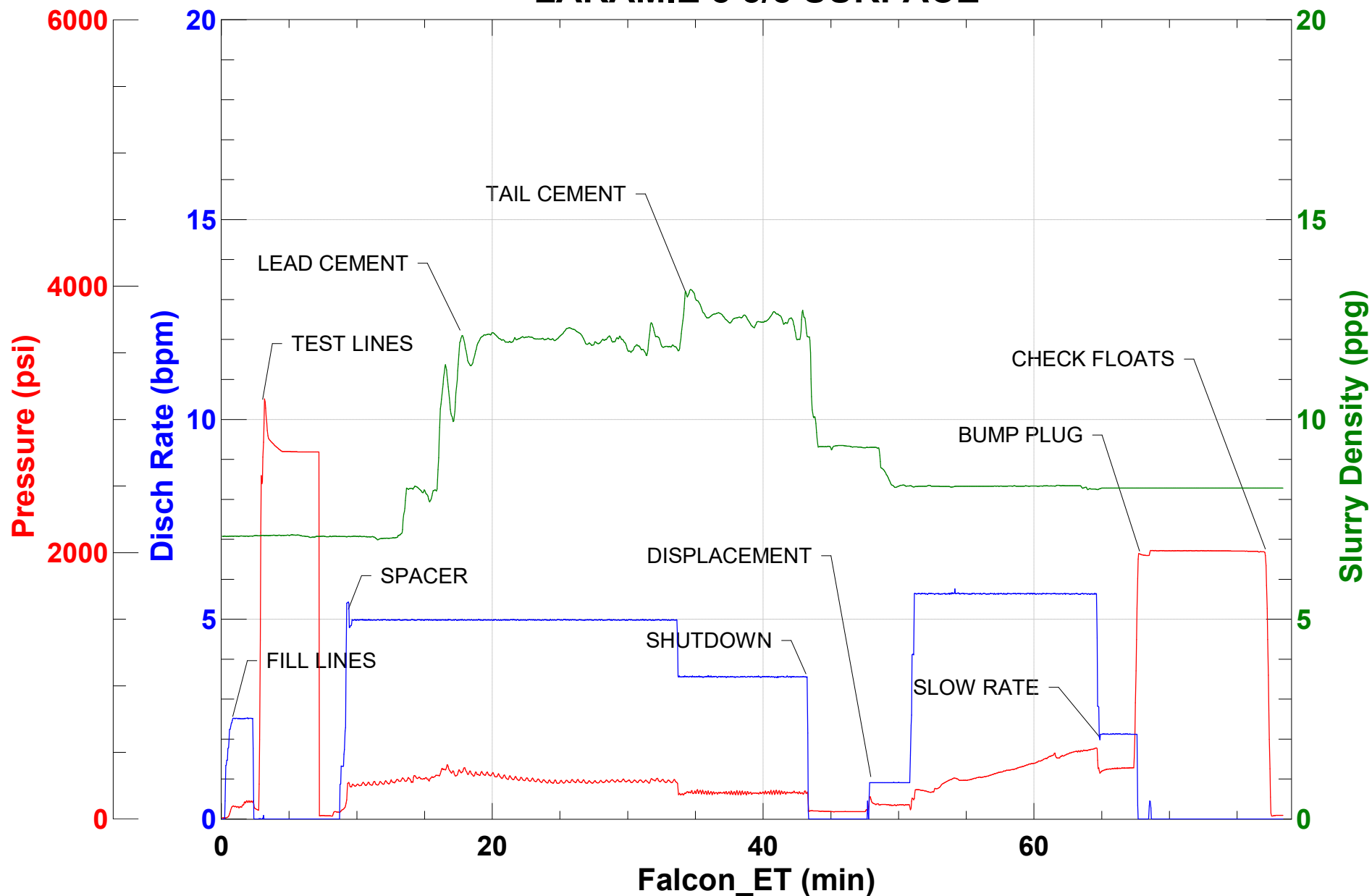
District RIFLE
 Supervisor JAVIER CASTILLO
 Engineer GAGE PUTNAM



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	2/7/2018	13:00	CALL OUT					ON LOCATION AT 18:00HRS
2	2/7/2018	13:45	MEETING					STEACS JOURNEY MANAGEMENT MEETING WITH BJ CREW
3	2/7/2018	14:00	LEAVE YARD					LEAVE YARD
4	2/7/2018	15:30	ON LOCATION					ARRIVE ON LOCATION, RIG SETTING UP TO RUN CASING
5	2/7/2018	15:40	MEETING					RIG UP SAFETY MEETING
6	2/7/2018	15:45	RIG UP					TARP AND HEAT CMT PUMP, RIG UP IRON/HOSES
7	2/7/2018	16:35	CASING					RIG STARTED RUNNING CASING
8	2/7/2018	16:50	RIG UP					RIG UP COMPLETE TILL RIG IS DONE RUNNING CASING
9	2/7/2018	19:50	LAND CASING					RIG LANDED CASING
10	2/7/2018	20:00	MEETING					PRE-JOB SAFETY MEETING WITH RIG CREW
11	2/7/2018	20:15	SHUTDOWN					SHUT JOB DOWN DUE TO WRONG BULK TRUCK FOR THE JOB. MADE ARRANGEMENTS TO GET THE RIGHT BULK TRUCK DELIVERED ASAP. SWITCHED OVER TO RIG TO CIRCULATE WELL
12	2/7/2018	22:40						BULK TRUCK CTF-280 ARRIVE ON LOCATION
13	2/7/2018	23:06	FILL LINES	8.34	2.5	5	99	FROP BOTTOM PLUG, FILL LINES
14	2/7/2018	23:09	TEST LINES				3100	PRESSURE TEST PUMPING LINES
15	2/7/2018	23:15	SPACER	8.34	5	35	294	FRESH WATER SPACER
16	2/7/2018	23:21	LEAD CEMENT	12	5	86	275	LEAD CEMENT, 191SKS/86BBLs AT 12.0PPG, 2.53YIELD, 14:89GAL/SK
17	2/7/2018	23:35	TAIL CEMENT	12.5	3.5	42	195	TAIL CEMENT, 107SKS/42BBLs AT 12.5PPG, 2.22YIELD, 12.58GAL/SK
18	2/7/2018	23:49	SHUTDOWN					DROP TOP PLUG
19	2/7/2018	23:54	DISPLACEMENT	8.34	5.5	86.5	527	FRESH WATER DISPLACEMENT
20	2/8/2018	0:11	SLOW RATE	8.34	2	10	385	SLOW RATE
21	2/8/2018	0:14	BUMP PLUG				2000	LAND TOP PLUG, BRING PSI UP TO 2000 PSI TO TEST CASING
22	2/8/2018	0:24	RELEASE PSI					RELEASE PSI, CHECK FLOATS, FLOATS HELD, 0.75BBLs FLOW BACK
23	2/8/2018	0:30	MEETING					RIG DOWN SAFETY MEETING
24	2/8/2018	0:35	RIG DOWN					PICKLE PUMP AND RIG DOWN BJ EQUIPMENT
25	2/8/2018	1:30	RIG DOWN					RIG DOWN COMPLETE
26	2/8/2018	1:45	MEETING					AAR JOURNEY MANAGEMENT MEETING
27	2/8/2018	2:00	LEAVE LOCATION					BJ CREW LEAVE LOCATION
28	2/8/2018	2:05						CALCULATED TOP OF TAIL 701 FT, 35BBLs CEMENT TO SURFACE
29	2/8/2018	2:10						FULL RETURNS THROUGH OUT JOB
30	2/8/2018	2:15						THANK YOU FOR YOUR BUSINESS FROM JAVIER AND CREW



LARAMIE 8 5/8 SURFACE



Cementing Treatment



Start Date	2/10/2018	Well	Nichols 0994-13-18E
End Date	2/10/2018	County	MESA
Client	LARAMIE ENERGY	State/Province	CO
Client Field Rep	ROGER	API	05-077-10411
Service Supervisor	PAUL LINN III	Formation	
Field Ticket No.	Production	Rig	H&P 290
District	Rifle, CO	Type of Job	Long String

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	Excess(%)	Grade	Thread
Previous Casing	8.10	8.63	24.00	1,524.00		J-55	ST&C
Open Hole	8.88			8,338.00	10.00		
Casing	4.00	4.50	11.60	8,328.00		L-80	LT&C

Shoe Length (ft): 89

Cementing Treatment



HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	8,242.00
Bottom Plug Size	4.500	Max Tubing Pressure - Rated (psi)	
Top Plug Used?	Yes	Max Tubing Pressure - Operated (psi)	
Top Plug Provided By	Non BJ	Max Casing Pressure - Rated (psi)	8,620.00
Top Plug Size	4.500	Max Casing Pressure - Operated (psi)	6,896.00
Centralizers Used	Yes	Pipe Movement	None
Centralizers Quantity	142.00	Job Pumped Through	Manifold
Centralizers Type	Rigid	Top Connection Thread	8 rnd.
Landing Collar Depth (ft)	8,242	Top Connection Size	4.5

CIRCULATION PRIOR TO JOB

Well Circulated By	Rig	Solids Present at End of Circulation	No
Circulation Prior to Job	Yes	10 sec SGS	18.00
Circulation Time (min)	90.00	10 min SGS	45.00
Circulation Rate (bpm)	10.00	30 min SGS	66.00
Circulation Volume (bbls)	900.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	9.80	Gas Units	0

Cementing Treatment



PV Mud In 14
YP Mud In 13

TEMPERATURE

Ambient Temperature (°F)	13.00	Slurry Cement Temperature (°F)	104.00
Mix Water Temperature (°F)	98.60	Flow Line Temperature (°F)	87.00

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	CD Spacer	11.0000			0.00				60.0000
Lead Slurry	P100-X2	12.7000	1.9775	11.11	1,024.00		915	1,804.0000	321.1000
Tail Slurry	P70-X1	13.5000	1.8511	9.33	6,308.00		393	727.0000	129.4000
Displacement Final	Freshwater with Clay Stabilizer	8.3300			0.00			0.0000	128.6000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	CD Spacer	GELLANT WATER, GW-86	0.8000	PPB
Spacer / Pre Flush / Flush	CD Spacer	R-6 LOW TEMP RETARDER 50 LB BAG BJS	1.4000	PPB
Spacer / Pre Flush / Flush	CD Spacer	SAND, S-8, Silica Flour, 200 Mesh	179.9700	PPB
Spacer / Pre Flush / Flush	CD Spacer	RETARDER, R-7C	0.3000	PPB
Lead Slurry	P100-X2	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	P100-X2	R-6 LOW TEMP RETARDER 50 LB BAG BJS	0.5000	BWOB
Lead Slurry	P100-X2	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	P100-X2	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	P100-X2	GELLANT WATER, GW-86	0.1000	BWOB
Lead Slurry	P100-X2	DISPERSANT, CD-31	0.1000	BWOB
Tail Slurry	P70-X1	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	P70-X1	SAND, S-8, Silica Flour, 200 Mesh	25.0000	BWOB
Tail Slurry	P70-X1	EXTENDER, BENTONITE	6.0000	BWOB
Tail Slurry	P70-X1	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	P70-X1	BONDING AGENT, BA-90	10.0000	PCT
Tail Slurry	P70-X1	R-6 LOW TEMP RETARDER 50 LB BAG BJS	0.2000	BWOB
Tail Slurry	P70-X1	Flyash (Rockies)	20.0000	PCT
Tail Slurry	P70-X1	CEMENT, CLASS G	70.0000	PCT
Tail Slurry	P70-X1	Foam Preventer, FP-25	0.3000	BWOB
Displacement Final	Freshwater with Clay Stabilizer	CLAY STABILIZER ResCare CS	0.0800	GPB

Cementing Treatment



TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
2/10/2018 8:54 PM	CD Spacer	4.00	60.00	361.00
2/10/2018 9:04 PM	P100-X2	6.00	322.66	462.00
2/10/2018 9:59 PM	P70-X1	5.00	129.49	505.00
2/10/2018 10:40 PM	Freshwater with Clay Stabilizer	10.00	127.74	470.00

	Min	Max	Avg
Pressure (psi)	187.00	2,920.00	353.00
Rate (bpm)	2.00	10.00	6.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	127.24	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	126.00	Amount of Spacer to Surface	10.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	1.50
Bump Plug Pressure (psi)	2,206.00	Total Volume Pumped (bbls)	628.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Partial	Lost Circulation During Cement Job	No

Customer Name LARAMIE
 Well Name NICHOLS 13-18E
 Job Type Long String

District Rifle
 Supervisor ANDREW LINN
 Engineer ZEN KEITH



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	2/10/2018	10:30	CALL OUT					CALL OUT. ON LOCATION TIME OF 18:00
2	2/10/2018	12:30	STEACS					PRE CONVOY SAFETY MEETING
3	2/10/2018	13:00	DEPART RIFLE YARD					DEPART FROM RIFLE YARD FOR H&P 290
4	2/10/2018	15:30	ARRIVE ON LOCATION					ARRIVE ON LOCATION. RIG WAS RUNNING CASING
5	2/10/2018	15:38	SITE ASSESSMENT					CREW DID A SITE ASSESSMENT
6	2/10/2018	15:44	SPOT EQUIPMENT					SPOTTED IN EQUIPMENT
7	2/10/2018	15:48	STEACS					PRE RIG UP SAFETY MEETING WITH ALL BJ CEMENT CREW
8	2/10/2018	16:01	RIG UP					RIG UP ALL GROUND EQUIPMENT
9	2/10/2018	19:50	SAFETY MEETING					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ CEMENT CREW
10	2/10/2018	20:02	RIG UP					LOAD BOTH PLUGS IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK LINES TO PLUG CONTAINER.
11	2/10/2018	20:38	FILL LINES	8.33	2	5	361	FILL LINES WITH 5 BBLS. OF FRESH WATER
12	2/10/2018	20:40	PRESSURE TEST				6504	PRESSURE TEST TO 6504 PSI.
13	2/10/2018	20:50	DROP PLUG					DROP BOTTOM PLUG
14	2/10/2018	20:54	WEIGHTED SPACER	11	4	5	361	11 PPG. WEIGHTED SPACER.
15	2/10/2018	20:55	WEIGHTED SPACER	11	6	10	483	11 PPG WEIGHTED SPACER
16	2/10/2018	21:03	WEIGHTED SPACER	11	6	50	353	11 PPG. WEIGHTED SPACER
17	2/10/2018	21:04	WEIGHTED SPACER	11	5	55	287	FINISHED PUMPING 11 PPG. WEIGHTED SPACER
18	2/10/2018	21:04	LEAD CEMENT	12.7	6	5	462	LEAD CEMENT 12.7 PPG. 915 SKS. 1.98 CUFT./SK. 11.11 GAL./SK. FOR A TOTAL OF 322.66 BBLS OF LEAD CEMENT, REQUIRING 242.04 BBLS. OF WATER. WEIGHT VERIFIED WITH MUD SCALE.
19	2/10/2018	21:07	LEAD CEMENT	12.7	7	25	801	PUMPED LEAD CEMENT
20		21:12	SHUT DOWN					SHUT DOWN, RAN OUT OF WATER IN DAY TANK SWAPPED TO UPRIGHT AND PRIMED WATER LINES
21	2/10/2018	21:14	LEAD CEMENT	12.7	7	55	559	PUMPED LEAD CEMENT
22	2/10/2018	21:17	LEAD CEMENT	12.7	6	70	521	PUMPED LEAD CEMENT
23	2/10/2018	21:21	LEAD CEMENT	12.7	6	100	509	PUMPED LEAD CEMENT
24	2/10/2018	21:29	LEAD CEMENT	12.7	6	150	459	PUMPED LEAD CEMENT
25	2/10/2018	21:36	LEAD CEMENT	12.7	6	200	479	PUMPED LEAD CEMENT
26	2/10/2018	21:46	LEAD CEMENT	12.7	6	250	563	PUMPED LEAD CEMENT
27	2/10/2018	21:52	LEAD CEMENT	12.7	4.5	286	487	PUMPED LEAD CEMENT
28	2/10/2018	21:55	LEAD CEMENT	12.7	4.5	300	350	PUMPED LEAD CEMENT

Customer Name LARAMIE
 Well Name NICHOLS 13-18E
 Job Type Long String

District Rifle
 Supervisor ANDREW LINN
 Engineer ZEN KEITH



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
29	2/10/2018	21:59	LEAD CEMENT	12.7	3.5	310	333	FINISHED PUMPING LEAD CEMENT WITH 310 BBLS. AWAY.
30	2/10/2018	21:59	TAIL CEMENT	13.5	5	10	505	TAIL CEMENT 13.5 PPG. 393 SKS. 1.85 CUFT./SK. 9.33 GAL./SK. FOR A TOTAL OF 129.49 BBLS OF TAIL CEMENT, REQUIRING 87.3 BBLS. OF WATER. WEIGHT VERIFIED WITH MUD SCALE.
31	2/10/2018	22:09	TAIL CEMENT	13.5	5	50	562	PUMPED TAIL CEMENT
32	2/10/2018	22:12	TAIL CEMENT	13.5	4	84	280	PUMPED TAIL CEMENT
33	2/10/2018	22:21	TAIL CEMENT	13.5	4	100	271	PUMPED TAIL CEMENT
34	2/10/2018	22:29	TAIL CEMENT	13.5	3.5	132	288	FINISHED PUMPING TAIL CEMENT WITH 132 BBLS. AWAY.
35	2/10/2018	22:29	SHUT DOWN					SHUT DOWN
36	2/10/2018	22:31	WASH PUMPS AND LINES					WASH PUMPS AND LINES TO CELLAR
37	2/10/2018	22:38	DROP PLUG					DROP TOP PLUG VERIFIED BY COMPANY MAN
38	2/10/2018	22:40	DISPLACEMENT	8.33	10	10	471	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
39	2/10/2018	22:43	DISPLACEMENT	8.33	8	20	702	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
40	2/10/2018	22:45	DISPLACEMENT	8.33	9	40	986	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
41	2/10/2018	22:45	SHUT DOWN					SHUT DOWN WATER HOSE GOING TO PUMP TRUCK BROKE, UNABLE TO GET WATER, SWAPPED OUT HOSES.
42	2/10/2018	22:53	DISPLACEMENT	8.33	6	50	1050	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
43	2/10/2018	22:54	DISPLACEMENT	8.33	9.5	60	1942	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
44	2/10/2018	22:59	DISPLACEMENT	8.33	7	90	1963	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE. SLOWED TO 7 BBLS./MIN AFTER LOOSING C SIDE DECK MOTOR
45	2/10/2018	23:01	DISPLACEMENT	8.33	7	100	2410	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
46	2/10/2018	23:03	DISPLACEMENT	8.33	4	118	2041	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
47	2/10/2018	23:03	SPACER TO SURFACE					10 BBLS. OF SPACER TO SURFACE
48	2/10/2018	23:04	DISPLACEMENT	8.33	4	127	2206	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
49	2/10/2018	23:04	LAND PLUG				2920	LANDED THE PLUG FINAL CIRCULATING PRESSURE WAS 2206 PSI. TOOK TO 2920 PSI.
50	2/10/2018	23:04	CASING TEST					10 MIN CASING TEST AT 2920 PSI.
51	2/10/2018	23:15	CHECK FLOATS					CHECK FLOATS, FLOATS HELD 1 1/2 BBLS. BACK.
52	2/10/2018	23:20	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
53	2/10/2018	23:30	RIG DOWN					RIG DOWN RIG FLOOR
54	1/3/2018	23:41	WASH PUMPS AND LINES					WASH PUMPS AND LINES TO CELLAR
55	2/11/2018	0:06	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW

Customer Name LARAMIE
 Well Name NICHOLS 13-18E
 Job Type Long String

District Rifle
 Supervisor ANDREW LINN
 Engineer ZEN KEITH



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
56	2/11/2018	0:17	RIG DOWN					RIG DOWN ALL EQUIPMENT.
57	2/11/2018	0:48	AAR					AFTER ACTION REVIEW
58	2/11/2018	0:55	STEACS					PRE CONVOY SAFETY MEETING
59	2/11/2018	1:12	DEPART FROM LOCATION					DEPART FROM LOCATION FOR RIFLE YARD. THANK YOU FOR USING BJ SERVICES, ANDREW LINN AND CREW.



NICHOLS 13-18E PRODUCTION

