



Laramie Energy

End of Well Cement Report

Nichols Federal 0994-24-19E 05-077-10393

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

Quote #: 10971/11222

I Execution #: 06350/06476



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,

Zen Keith
Field Engineer III | (307) 757-7178 | Zen.Keith@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	5/5/2018	Well	Nichols Federal 0994-24-19E
End Date	5/5/2018	County	MESA
Client	LARAMIE ENERGY	State/Province	CO
Client Field Rep	Roger Foster	API	05-077-10393
Service Supervisor	Andrew Linn	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			1,547.00	75.00		
Casing	8.02	8.63	28.00	1,537.00		J-55	ST&C
Open Hole	11.00			1,030.00	48.00		

Shoe Length (ft): 43

HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	1,492.00
Bottom Plug Size	8.625	Max Casing Pressure - Rated (psi)	2,530.00
Top Plug Used?	Yes	Max Casing Pressure - Operated (psi)	2,024.00
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	8.625	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	8 RND.
Centralizers Quantity	19.00	Top Connection Size	8.625
Centralizers Type	Bow		
Landing Collar Depth (ft)	1,492		

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	3.00
Circulation Time (min)	30.00	10 min SGS	11.00
Circulation Rate (bpm)	10.00	30 min SGS	25.00
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)	9.00	Gas Units	0
PV Mud In	9		
YP Mud In	3		

TEMPERATURE

Ambient Temperature (°F)	37.00	Slurry Cement Temperature (°F)	57.40
Mix Water Temperature (°F)	44.80	Flow Line Temperature (°F)	0.00

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	Fresh Water	8.3300			0.00				40.0000
Lead Slurry	BJCem S100.3.01D	12.0000	2.5329	14.89	0.00	1,030.00	170	417.0000	74.2000
Tail Slurry	BJCem S100.3.01D	12.5000	2.2282	12.62	1,030.00	500.00	107	237.0000	42.1000
Displacement Final	Water	8.3300			0.00			0.0000	93.0000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Lead Slurry	BJCem S100.3.01D	IntegraSeal CELLO	0.1300	LBS/SK
Lead Slurry	BJCem S100.3.01D	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.3.01D	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem S100.3.01D	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK
Lead Slurry	BJCem S100.3.01D	CEMENT EXTENDER,SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Lead Slurry	BJCem S100.3.01D	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.3.01D	IntegraSeal CELLO	0.1300	LBS/SK
Tail Slurry	BJCem S100.3.01D	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem S100.3.01D	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Tail Slurry	BJCem S100.3.01D	CEMENT, ASTM TYPE III	100.0000	PCT
Tail Slurry	BJCem S100.3.01D	CEMENT EXTENDER,SODIUM METASILICATE A-2 ANHYDROUS	2.0000	LBS/SK
Tail Slurry	BJCem S100.3.01D	ACCELERATOR, SALT, CHLORIDE, CALCIUM, A-7P, PELLETS	2.0000	LBS/SK

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
5/5/2018 6:01 AM	Fresh Water	4.00	40.00	246.00
5/5/2018 6:12 AM	BJCem S100.3.01D	4.00	76.60	237.00
5/5/2018 6:29 AM	BJCem S100.3.01D	5.00	42.50	326.00
5/5/2018 6:42 AM	Water	5.50	94.85	197.00

	Min	Max	Avg
Pressure (psi)	137.00	2,001.00	332.00
Rate (bpm)	2.00	7.00	5.00

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	35.00
Calculated Displacement Volume (bbls)	94.85	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	94.00	Amount of Spacer to Surface	40.00
Did Float Hold?	Yes	Pressure Left on Casing (psi)	0.00
Bump Plug	Yes	Amount Bled Back After Job	0.50
Bump Plug Pressure (psi)	487.00	Total Volume Pumped (bbls)	260.00
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 FED. 24-19E
 Job Type Surface

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	5/4/2018	20:40	CALL OUT					CREW CALL OUT ON LOCATION TIME OF 03:00 5/5/18
2	5/4/2018	22:12	STEACS					PRE CONVOY SAFETY MEETING
3	5/5/2018	0:25	ARRIVE ON LOCATION					CREW ARRIVED ON LOCATION RIG WAS RUNING CASING
4	5/5/2018	0:32	SITE ASSESSMENT					SITE ASSESSMENT
5	5/5/2018	0:38	SPOT EQUIPMENT					SPOT IN BULK TRUCK
6	5/5/2018	0:45	STEACS					PRE RIG UP SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
7	5/5/2018	1:00	RIG UP					RIG UP ALL GROUND EQUIPMENT
8	5/5/2018	5:20	SAFETY MEETING					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ SERVICES CEMENT CREW.
9	5/5/2018	5:38	RIG UP					LOAD PLUGS IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK LINES TO PLUG CONTAINER
10	5/5/2018	5:52	FILL LINE	8.33	2	5	68	FILL LINES WITH 5 BBLs. FRESH WATER
11	5/5/2018	5:56	DROP PLUG					DROP BOTTOM PLUG
12	5/5/2018	5:57	PRESSURE TEST				5228	PRESSURE TEST TO 5228 PSI.
13	5/5/2018	6:01	SPACER	8.33	4	6	246	FRESH WATER SPACER
14	5/5/2018	6:11	SPACER	8.33	4	40	205	FRESH WATER SPACER
15	5/5/2018	6:12	LEAD CEMENT	12	4	5	237	LEAD CEMENT 12 PPG 170 SKS 2.53 CUFT/SK 14.89 GAL/SK FOR A TOTAL OF 76.6 BBLs OF LEAD REQUIRING 60.27 BBLs OF FRESH WATER. WEIGHT VERIFIED WITH MUD SCALES. CALCULATED TOP OF LEAD IS 0 FT CALCULATED HEIGHT OF LEAD IS 659.08 FT.
16	5/5/2018	6:19	LEAD CEMENT	12	5	30	332	PUMPED LEAD CEMENT
17	5/5/2018	6:21	LEAD CEMENT	12	5	50	328	PUMPED LEAD CEMENT
18	5/5/2018	6:28	LEAD CEMENT	12	5	78.2	319	FINISHED PUMPING LEAD CEMENT WITH 78.2 BBLs. AWAY
19	5/5/2018	6:29	TAIL CEMENT	12.5	5	5	326	TAIL CEMENT 12.5 PPG 107 SKS 2.23 CUFT/SK 12.62 GAL/SK FOR A TOTAL OF 42.5 BBLs OF TAIL REQUIRING 32.15 BBLs OF FRESH WATER. WEIGHT VERIFIED WITH MUD SCALES. CALCULATED TOP OF TAIL IS 659.08 FT CALCULATED HEIGHT OF TAIL IS 877.92 FT.
20	5/5/2018	6:35	TAIL CEMENT	12.5	4	35	166	PUMPED TAIL CEMENT
21	5/5/2018	6:38	TAIL CEMENT	12.5	4	46.5	137	FINISHED PUMPING TAIL CEMENT WITH 46.5 BBLs. AWAY
22	5/5/2018	6:38	SHUT DOWN					SHUT DOWN
23	5/5/2018	6:41	DROP PLUG					DROP TOP PLUG. VERIFIED BY DRILLER
24	5/5/2018	6:42	DISPLACEMENT	8.33	5.5	10	197	FRESH WATER DISPLACEMENT WITH FIRST 10 BBLs. THREW MIX TUB
25	5/5/2018	6:45	DISPLACEMENT	8.33	7	30	568	FRESH WATER DISPLACEMENT
26	5/5/2018	6:48	DISPLACEMENT	8.33	7	50	781	FRESH WATER DISPLACEMENT
27	5/5/2018	6:53	DISPLACEMENT	8.33	7	84	1053	FRESH WATER DISPLACEMENT
28	5/5/2018	6:51	CEMENT TO SURFACE					35 BBLs OF CEMENT TO SURFACE VERIFIED BY COMPANY MAN
29	5/5/2018	6:53	DISPLACEMENT	8.33	2	85	435	FRESH WATER DISPLACEMENT
30	5/5/2018	6:57	DISPLACEMENT	8.33	2	94	487	FRESH WATER DISPLACEMENT
31	5/5/2018	6:57	LAND PLUG				2001	LANDED PLUG AT 487 PSI TOOK TO 2001 PSI.
32	5/5/2018	6:57	CASING TEST				2001	10 MIN CASING TEST AT 2001 PSI
33	5/5/2018	7:08	CHECK FLOATS					CHECK FLOATS FLOATS HELD 1/2 BBL BACK
34	5/5/2018	7:15	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
35	5/5/2018	7:20	RIG DOWN					RIG DOWN THE RIG FLOOR
36	5/5/2018	7:15	WASH PUMPS AND LINES					WASH PUMPS AND LINES INTO CELLAR
37	5/5/2018	7:39	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
38	5/5/2018	7:46	RIG DOWN					RIGGED DOWN ALL EQUIPMENT
39	5/5/2018	8:20	AAR					AFTER ACTION REVIEW
40	5/5/2018	8:25	STEACS					PRE CONVOY SAFETY MEETING
41	5/5/2018	8:36	DEPART LOCATION					DEPART FROM LOCATION FOR RIFLE YARD. THANK YOU FOR USING BJ SERVICES, ANDREW LINN AND CREW.

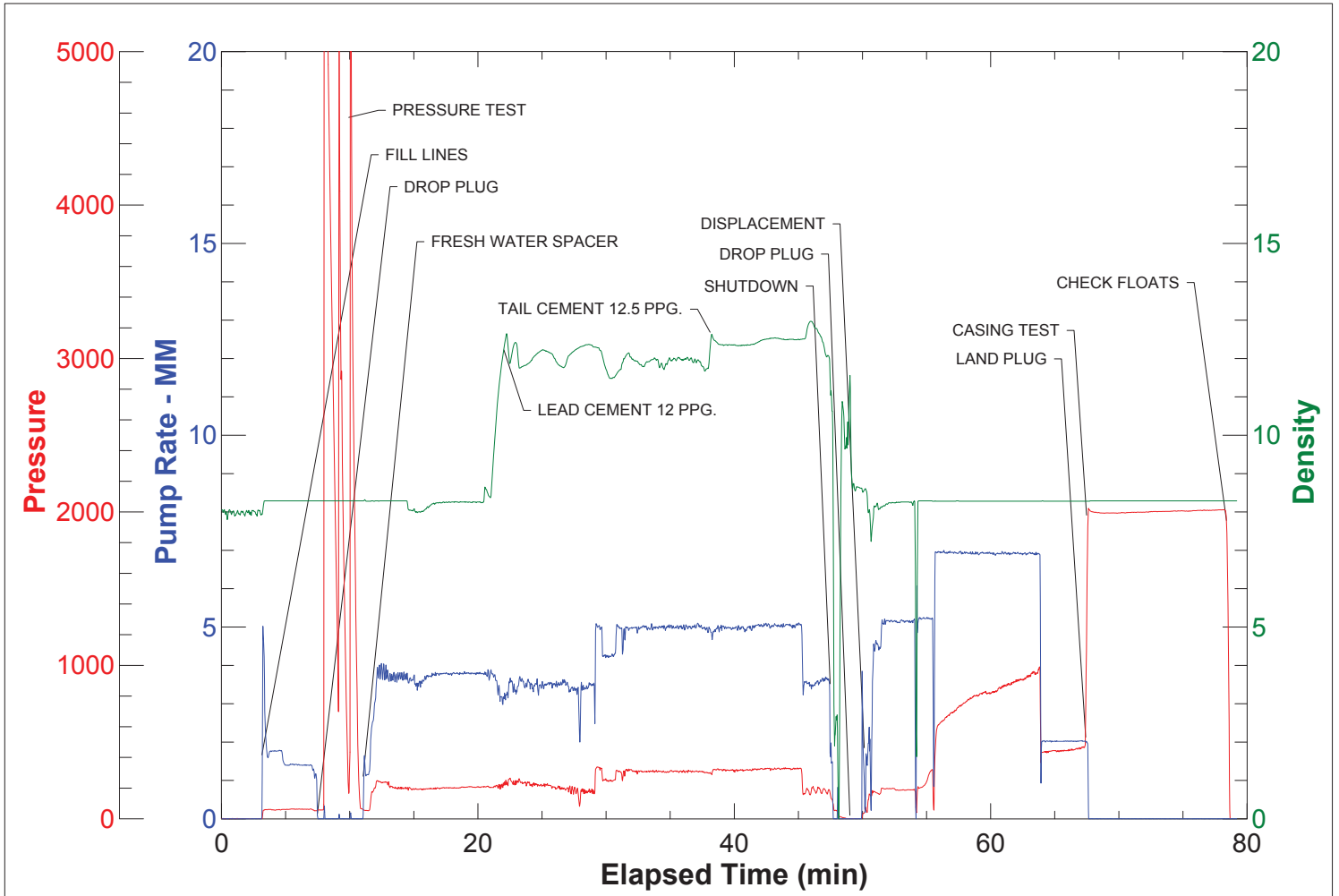


JobMaster Program Version 4.02C1

Job Number: 5154

Customer: LARAMIE

Well Name: NICHOLS FED. 24-19E



Cementing Treatment



Start Date	5/8/2018	Field Ticket#	FT-06476-D3K3L40202-22525
End Date	5/8/2018	Well	Nichols Federal 0994-24-19E
Client	LARAMIE ENERGY	API#	05-077-10393
Client Field Rep.	Matt S	Well Classification	
Service Sup.	Andrew Linn	County	MESA
District	Rifle, CO	State/Province	CO
Type of Job	Long String	Formation	
Execution ID	EXC-06476-D3K3L402	Rig	H&P 290
Project ID	PRJ1006505		

WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	Excess(%)	Grade	Thread
Previous Casing	8.02	8.63	28.00	1,530.00		J-55	ST&C
Open Hole	8.88			6,059.00	3.50		
Open Hole	8.88			8,063.00	3.50		
Casing	4.00	4.50	11.60	8,053.00		L-80	LT&C

Shoe Length (ft): 84

HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	7,968.00
Bottom Plug Size	4.500	Max Casing Pressure - Rated (psi)	8,680.00
Top Plug Used?	Yes	Max Casing Pressure - Operated (psi)	6,944.00
Top Plug Provided By	Non BJ	Pipe Movement	None
Top Plug Size	4.500	Job Pumped Through	Manifold
Centralizers Used	Yes	Top Connection Thread	8 RND.
Centralizers Quantity	124.00	Top Connection Size	4.5
Centralizers Type	Bow		
Landing Collar Depth (ft)	8,030		

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	4.00
Circulation Time (min)	90.00	10 min SGS	14.00
Circulation Rate (bpm)	10.00	30 min SGS	37.00
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)	9.20	Gas Units	0
Mud Density Out (ppg)	9.20		
PV Mud In	16		
PV Mud Out	16		
YP Mud In	10		
YP Mud Out	10		

TEMPERATURE

Ambient Temperature (°F)	41.00	Slurry Cement Temperature (°F)	61.20
Mix Water Temperature (°F)	49.50	Flow Line Temperature (°F)	118.00

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	IntegraGuard EZ Spacer	11.0000			0.00				60.0000
Lead Slurry	BJCem P100.3.01R	12.7000	1.9849	11.10	1,030.00	5,029.00	818	1,617.0000	287.8000
Tail Slurry	BJCem P70.6.01R	13.5000	1.8561	9.31	6,059.00	2,051.00	369	685.0000	121.9000
Displacement Final	Water + ResCare +Biocide	8.3300			0.00			0.0000	124.8000

Cementing Treatment



Fluid Type	Fluid Name	Component	Concentration	UOM
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	EXTENDER, BENTONITE	10.0000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, R-7C	0.3000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	RETARDER, R-3	1.4000	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	SAND, S-8, Silica Flour, 200 Mesh	168.8967	PPB
Spacer / Pre Flush / Flush	IntegraGuard EZ Spacer	GELLANT WATER, GW-86	0.8000	PPB
Lead Slurry	BJCem P100.3.01R	DISPERSANT, CD-31	0.1000	BWOB
Lead Slurry	BJCem P100.3.01R	BONDING AGENT, BA-60	0.3000	BWOB
Lead Slurry	BJCem P100.3.01R	Foam Preventer, FP-25	0.3000	BWOB
Lead Slurry	BJCem P100.3.01R	IntegraSeal PHENO	0.5000	LBS/SK
Lead Slurry	BJCem P100.3.01R	RETARDER, R-3	0.5000	BWOB
Lead Slurry	BJCem P100.3.01R	CEMENT, ASTM TYPE III	100.0000	PCT
Lead Slurry	BJCem P100.3.01R	GELLANT WATER, GW-86	0.1000	BWOB
Lead Slurry	BJCem P100.3.01R	IntegraSeal CELLO	0.2500	LBS/SK
Tail Slurry	BJCem P70.6.01R	FLUID LOSS, FL-24	0.4000	BWOB
Tail Slurry	BJCem P70.6.01R	SAND, S-8, Silica Flour, 200 Mesh	25.0000	BWOB
Tail Slurry	BJCem P70.6.01R	RETARDER, R-3	0.2000	BWOB
Tail Slurry	BJCem P70.6.01R	IntegraSeal CELLO	0.2500	LBS/SK
Tail Slurry	BJCem P70.6.01R	IntegraSeal PHENO	0.5000	LBS/SK
Tail Slurry	BJCem P70.6.01R	CEMENT, CLASS G	70.0000	PCT
Tail Slurry	BJCem P70.6.01R	Flyash (Rockies)	20.0000	PCT
Tail Slurry	BJCem P70.6.01R	EXTENDER, BENTONITE	6.0000	BWOB
Tail Slurry	BJCem P70.6.01R	BONDING AGENT, BA-60	0.2000	BWOB
Tail Slurry	BJCem P70.6.01R	Foam Preventer, FP-25	0.3000	BWOB
Tail Slurry	BJCem P70.6.01R	BONDING AGENT, BA-90	10.0000	PCT
Displacement Final	Water + ResCare +Biocide	CLAY STABILIZER ResCare CS	0.0800	GPB

TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
5/8/2018 4:57 AM	IntegraGuard EZ Spacer	4.00	60.00	524.00
5/8/2018 5:17 AM	BJCem P100.3.01R	4.00	288.46	181.00
5/8/2018 6:13 AM	BJCem P70.6.01R	5.00	122.24	336.00
5/8/2018 6:52 AM	Water + ResCare +Biocide	5.00	123.50	411.00

Cementing Treatment



	Min	Max	Avg
Pressure (psi)	176.00	3,220.00	336.00
Rate (bpm)	2.00	10.00	5.00

DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	0.00
Calculated Displacement Volume (bbls)	123.50	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	123.00	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	1.50
Bump Plug Pressure (psi)	2,001.00	Total Volume Pumped (bbls)	592.00
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 District Rifle
 Well Name NICHOLS FED. 24-19E Supervisor ANDREW LINN
 Job Type Long String Engineer ZEN KEITH



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
								CALL OUT. ON LOCATION TIME OF 04:00
1	5/7/2018	21:00	CALL OUT					
2	5/7/2018	23:05	STEACS					PRE CONVOY SAFETY MEETING
3	5/7/2018	23:25	DEPART RIFLE YARD					DEPART FROM RIFLE YARD FOR H&P 290
4	5/8/2018	1:25	ARRIVE ON LOCATION					ARRIVE ON LOCATION. RIG WAS RUNNING CASING
5	5/8/2018	1:30	SITE ASSESSMENT					CREW DID A SITE ASSESSMENT
6	5/8/2018	1:35	SPOT EQUIPMENT					SPOTTED IN EQUIPMENT
7	5/8/2018	1:44	STEACS					PRE RIG UP SAFETY MEETING WITH ALL BJ CEMENT CREW
8	5/8/2018	2:00	RIG UP					RIG UP ALL GROUND EQUIPMENT
9	5/8/2018	4:00	SAFETY MEETING					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ CEMENT CREW
10	5/8/2018	4:18	RIG UP					LOAD BOTH PLUGS IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK LINES TO PLUG CONTAINER.
11	5/8/2018	4:33	FILL LINES	8.33	2	5	396	FILL LINES WITH 5 BBLs. OF FRESH WATER
12	5/8/2018	4:50	PRESSURE TEST				5647	PRESSURE TEST TO 5647 PSI PRESSURE FELL DUE TO LEAK. FIXED LEAK
13	5/8/2018	4:52	PRESSURE TEST				6001	PRESSURE TEST TO 6001 PSI.
14	5/8/2018	4:55	DROP PLUG					DROP BOTTOM PLUG
15	5/8/2018	4:57	WEIGHTED SPACER	11	4	1	524	11 PPG. WEIGHTED SPACER.
16	5/8/2018	5:11	WEIGHTED SPACER	11	4	50	298	11 PPG WEIGHTED SPACER
17	5/8/2018	5:14	WEIGHTED SPACER	11	4	64	319	FINISHED PUMPING 11 PPG. WEIGHTED SPACER WITH 64 BBLs AWAY.
18	5/8/2018	5:17	LEAD CEMENT	12.7	4	10	181	LEAD CEMENT 12.7 PPG 818 SKS 1.98 CUFT/SK 11.1 GAL/SK FOR A TOTAL OF 288.46 BBLs OF LEAD CEMENT, REQUIRING 216.19 BBLs. OF WATER. WEIGHT VERIFIED WITH MUD SCALE.
19	5/8/2018	5:26	LEAD CEMENT	12.7	4	50	176	PUMPED LEAD CEMENT
20	5/8/2018	5:30	LEAD CEMENT	12.7	5	65	278	PUMPED LEAD CEMENT
21	5/8/2018	5:37	LEAD CEMENT	12.7	5	100	292	PUMPED LEAD CEMENT
22	5/8/2018	5:45	LEAD CEMENT	12.7	5	150	282	PUMPED LEAD CEMENT
23	5/8/2018	5:56	LEAD CEMENT	12.7	5	200	286	PUMPED LEAD CEMENT
24	5/8/2018	6:04	LEAD CEMENT	12.7	5	250	284	PUMPED LEAD CEMENT
25	5/8/2018	6:06	LEAD CEMENT	12.7	4	260	177	PUMPED LEAD CEMENT
26	5/8/2018	6:11	LEAD CEMENT	12.7	4	280	237	FINISHED PUMPING LEAD CEMENT WITH 237 BBLs. AWAY.
27	5/8/2018	6:13	TAIL CEMENT	13.5	5	5	336	TAIL CEMENT 13.5 PPG. 369 SKS 1.86 CUFT/SK 9.31 GAL/SK FOR A TOTAL OF 122.24 BBLs OF TAIL CEMENT, REQUIRING 81.8 BBLs OF WATER. WEIGHT VERIFIED WITH MUD SCALE.
28	5/8/2018	6:22	TAIL CEMENT	13.5	5.5	50	436	PUMPED TAIL CEMENT
29	5/8/2018	6:27	TAIL CEMENT	13.5	4	80	353	PUMPED TAIL CEMENT
30		6:33	TAIL CEMENT	13.5	4	100	254	
31	5/8/2018	6:40	TAIL CEMENT	13.5	4	120	236	FINISHED PUMPING TAIL CEMENT WITH 120 BBLs. AWAY.
32	5/8/2018	6:40	SHUT DOWN					SHUT DOWN
33	5/8/2018	6:41	WASH PUMPS AND LINES					WASH PUMPS AND LINES TO CELLAR
34	5/8/2018	6:48	DROP PLUG					DROP TOP PLUG VERIFIED BY COMPANY MAN
35	5/8/2018	6:52	DISPLACEMENT	8.33	5	10	411	FRESH WATER DISPLACEMENT WITH 10 GALS OF RESCARE AND 5 GALS OF BIOCID
36		6:53	DISPLACEMENT	8.33	10	20	1459	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
37	5/8/2018	6:56	DISPLACEMENT	8.33	10	50	1559	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
38	5/8/2018	6:59	SPACER TO SURFACE					60 BBLs OF WEIGHTED SPACER TO SURFACE
39	5/8/2018	7:04	DISPLACEMENT	8.33	8	100	2002	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
40	5/8/2018	7:06	DISPLACEMENT	8.33	7	112	2130	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE.
41	5/8/2018	7:06	DISPLACEMENT	8.33	4	113	1834	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
42	5/8/2018	7:10	DISPLACEMENT	8.33	4	123	2001	FRESH WATER DISPLACEMENT WITH 10 GALS. OF RESCARE
43	5/8/2018	7:10	LAND PLUG				2001	LANDED THE PLUG FINAL CIRCULATING PRESSURE WAS 2001 PSI.
44	5/8/2018	7:10	CASING TEST				3220	TOOK TO 3220 PSI.
45	5/8/2018	7:21	CHECK FLOATS					10 MIN CASING TEST AT 3220 PSI.
46	5/8/2018	7:30	SAFETY MEETING					CHECK FLOATS, FLOATS HELD 1 1/2 BBLs. BACK.
47	5/8/2018	7:38	RIG DOWN					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
48	5/8/2018	7:30	WASH PUMPS AND LINES					RIG DOWN RIG FLOOR
49	5/8/2018	7:40	SAFETY MEETING					WASH PUMPS AND LINES TO CELLAR
50	5/8/2018	7:49	RIG DOWN					PRE RIG DOWN SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
51	5/8/2018	8:20	AAR					RIG DOWN ALL EQUIPMENT.
52	5/8/2018	8:25	STEACS					AFTER ACTION REVIEW
53	5/8/2018	8:35	DEPART FROM LOCATION					PRE CONVOY SAFETY MEETING
								DEPART FROM LOCATION FOR RIFLE YARD. THANK YOU FOR USING BJ SERVICES, ANDREW LINN AND CREW.



JobMaster Program Version 4.02C1
Job Number: 5259
Customer: LARAMIE
Well Name: NICHOLS FED. 24-19E

