



# Laramie Energy

## End of Well Cement Report

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Nichols 0994-24-19W 05-077-10398

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

Quote #: 11304/11611

I Execution #: 06540/06654

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# Laramie Energy

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

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

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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](mailto: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

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# Cementing Treatment



<b>Start Date</b>	5/9/2018	<b>Field Ticket#</b>	FT-06540-Y3G9Q80202-51978
<b>End Date</b>	5/9/2018	<b>Well</b>	Nichols 0994-24-19W
<b>Client</b>	LARAMIE ENERGY	<b>API#</b>	05-077-10398
<b>Client Field Rep.</b>	Matt S.	<b>Well Classification</b>	
<b>Service Sup.</b>	Andrew Linn	<b>County</b>	MESA
<b>District</b>	Rifle, CO	<b>State/Province</b>	CO
<b>Type of Job</b>	Surface	<b>Formation</b>	
<b>Execution ID</b>	EXC-06540-Y3G9Q802	<b>Rig</b>	H&P 290
<b>Project ID</b>	PRJ1006569		

## 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			1,030.00	48.00		
Open Hole	11.00			1,579.00	75.00		
Casing	8.02	8.63	28.00	1,569.00		J-55	ST&C

**Shoe Length (ft):** 43

## HARDWARE

<b>Bottom Plug Used?</b>	Yes	<b>Tool Type</b>	Float Collar
<b>Bottom Plug Provided By</b>	Non BJ	<b>Tool Depth (ft)</b>	1,523.00
<b>Bottom Plug Size</b>	8.625	<b>Max Casing Pressure - Rated (psi)</b>	2,530.00
<b>Top Plug Used?</b>	Yes	<b>Max Casing Pressure - Operated (psi)</b>	2,024.00
<b>Top Plug Provided By</b>	Non BJ	<b>Pipe Movement</b>	None
<b>Top Plug Size</b>	8.625	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Used</b>	Yes	<b>Top Connection Thread</b>	8 RND.
<b>Centralizers Quantity</b>	26.00	<b>Top Connection Size</b>	8.625
<b>Centralizers Type</b>	Bow		
<b>Landing Collar Depth (ft)</b>	1,523		

# 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)	30.00	10 min SGS	14.00
Circulation Rate (bpm)	12.00	30 min SGS	37.00
Circulation Volume (bbls)	360.00	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
Mud Density Out (ppg)	9.00		
PV Mud In	16		
PV Mud Out	16		
YP Mud In	10		
YP Mud Out	10		

## TEMPERATURE

Ambient Temperature (°F)	43.00	Slurry Cement Temperature (°F)	66.90
Mix Water Temperature (°F)	53.70	Flow Line Temperature (°F)	

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

## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)
5/8/2018 1:21 AM	Fresh Water	5.00	40.00	206.00
5/8/2018 1:31 AM	BJCem S100.3.01D	5.00	76.60	251.00
5/8/2018 1:43 AM	BJCem S100.3.01D	5.00	42.50	229.00
5/8/2018 1:56 AM	Water	8.00	96.87	220.00

	Min	Max	Avg
Pressure (psi)	64.00	1,634.00	229.00
Rate (bpm)	2.00	8.00	5.00

# Cementing Treatment



## DISPLACEMENT AND END OF JOB SUMMARY

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Displaced By	BJ	Amount of Cement Returned/Reversed	30.00
Calculated Displacement Volume (bbls)	96.87	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	96.00	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)	501.00	Total Volume Pumped (bbls)	244.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

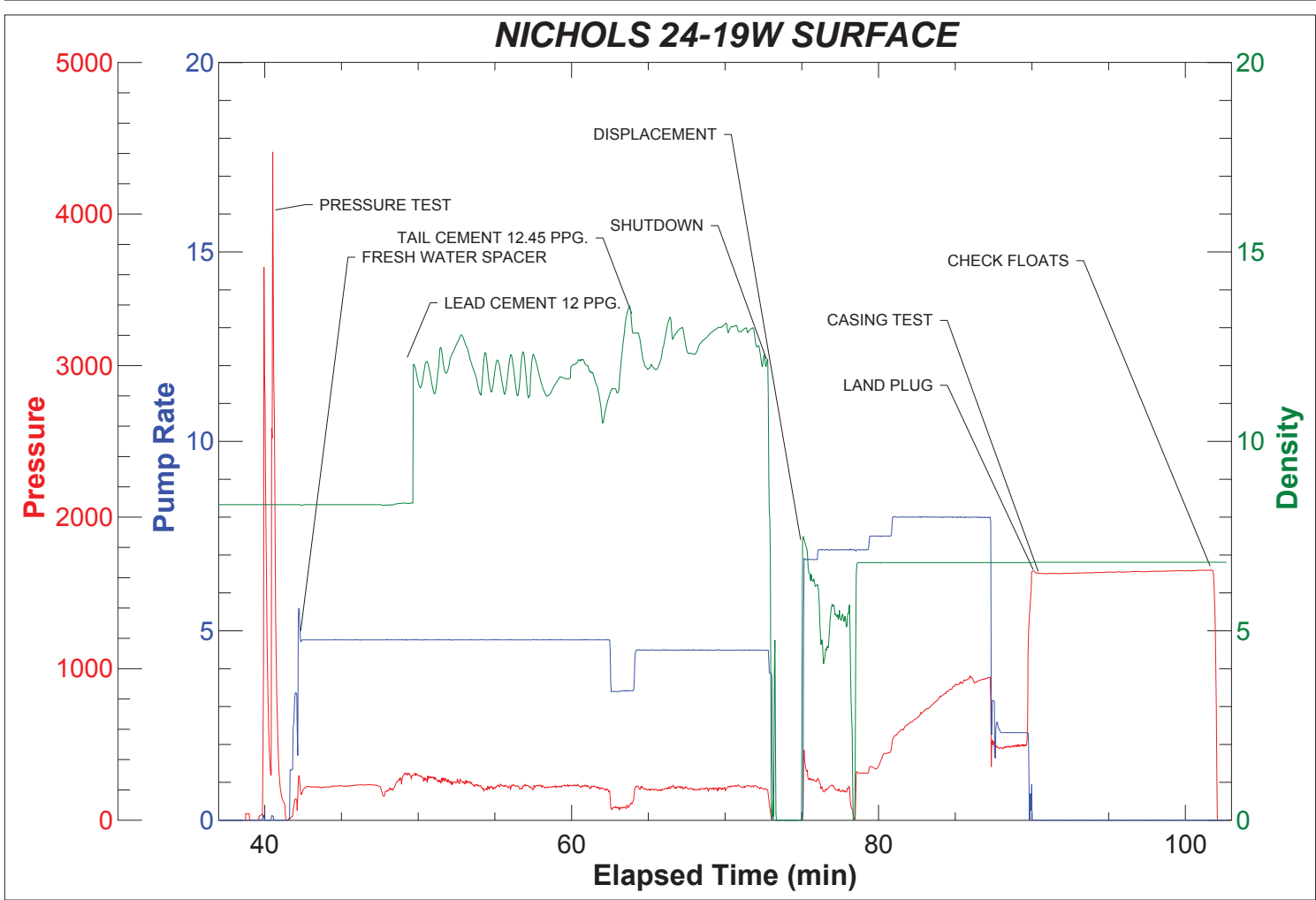
Customer Name LARAMIE District Rifle  
 Well Name NICHOLS 24-19W Supervisor ANDREW LINN  
 Job Type Surface Engineer GAGE PUTNAM



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	5/8/2018	20:00	CALL OUT					CREW CALL OUT ON LOCATION TIME OF MIDNIGHT
3	5/8/2018	20:05	ARRIVE ON LOCATION					CREW ALREADY ON LOCATION RIG WAS RUNING CASING
4	5/8/2018	20:15	SITE ASSESSMENT					SITE ASSESSMENT
5	5/8/2018	20:30	SPOT EQUIPMENT					SPOT IN BULK TRUCK
6	5/8/2018	20:45	STEACS					PRE RIG UP SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
7	5/8/2018	21:00	RIG UP					RIG UP ALL GROUND EQUIPMENT
8	5/9/2018	0:20	SAFETY MEETING					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ SERVICES CEMENT CREW.
9	5/9/2018	0:30	RIG UP					LOAD PLUGS IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK LINES TO PLUG CONTAINER
10	5/9/2018	0:41	FILL LINE	8.33	2	5	65	FILL LINES WITH 5 BBLS. FRESH WATER
11	5/9/2018	0:46	DROP PLUG					DROP BOTTOM PLUG
12	5/9/2018	0:47	PRESSURE TEST				4862	PRESSURE TEST TO 4862 PSI.
13	5/9/2018	1:19	PRESSURE TEST				3042	PRESSURE TEST TO 3042 PSI.
14	5/9/2018	1:21	SPACER	8.33	5	6	206	FRESH WATER SPACER
15	5/9/2018	1:28	SPACER	8.33	5	40	257	FRESH WATER SPACER
16	5/9/2018	1:31	LEAD CEMENT	12	5	5	251	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.
17	5/9/2018	1:38	LEAD CEMENT	12	5	50	222	PUMPED LEAD CEMENT
18	5/9/2018	1:42	LEAD CEMENT	12	3	65.5	80	FINISHED PUMPING LEAD CEMENT WITH 65.5 BBLS. AWAY
19	5/9/2018	1:43	TAIL CEMENT	12.5	4.5	5	229	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.
20	5/9/2018	1:53	TAIL CEMENT	12.5	4.5	42.5	186	FINISHED PUMPING TAIL CEMENT WITH 42.5 BBLS. AWAY
21	5/9/2018	1:53	SHUT DOWN					SHUT DOWN
22	5/9/2018	1:55	DROP PLUG					DROP TOP PLUG. VERIFIED BY DRILLER
23	5/9/2018	1:56	DISPLACEMENT	8.33	8	10	220	FRESH WATER DISPLACEMENT WITH FIRST 10 BBLS. THREW MIX TUB
24	5/9/2018	2:02	DISPLACEMENT	8.33	8	50	688	FRESH WATER DISPLACEMENT
25	5/9/2018	2:07	DISPLACEMENT	8.33	8	85	986	FRESH WATER DISPLACEMENT
26	5/9/2018	2:03	CEMENT TO SURFACE					30 BBLS OF CEMENT TO SURFACE VERIFIED BY COMPANY MAN
27	5/9/2018	2:07	DISPLACEMENT	8.33	2	86	493	FRESH WATER DISPLACEMENT
28	5/9/2018	2:09	DISPLACEMENT	8.33	2	95	501	FRESH WATER DISPLACEMENT
29	5/9/2018	2:09	LAND PLUG				1634	LANDED PLUG AT 501 PSI TOOK TO 1634 PSI.
30	5/9/2018	2:21	CHECK FLOATS					CHECK FLOATS FLOATS HELD 1/2 BBL BACK
31	5/9/2018	2:25	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
32	5/9/2018	2:33	RIG DOWN					RIG DOWN THE RIG FLOOR
33	5/9/2018	2:33	WASH PUMPS AND LINES					WASH PUMPS AND LINES INTO CELLAR
34	5/9/2018	2:48	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
35	5/9/2018	2:55	RIG DOWN					RIGGED DOWN ALL EQUIPMENT
36	5/9/2018	3:15	AAR					AFTER ACTION REVIEW
37	5/9/2018	3:20	STEACS					PRE CONVOY SAFETY MEETING
38	5/9/2018	3:35	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:  
Customer: LARAMIE  
Well Name: NICHOLS 24-19W





# Cementing Treatment



<b>Start Date</b>	5/12/2018	<b>Field Ticket#</b>	FT-06654-X4S3Q00202-38902
<b>End Date</b>	5/12/2018	<b>Well</b>	Nichols 0994-24-19W
<b>Client</b>	LARAMIE ENERGY	<b>API#</b>	05-077-10398
<b>Client Field Rep.</b>	Matt Settles	<b>Well Classification</b>	-
<b>Service Sup.</b>	Francisco Castillo	<b>County</b>	MESA
<b>District</b>	Rifle, CO	<b>State/Province</b>	CO
<b>Type of Job</b>	Long String	<b>Formation</b>	-
<b>Execution ID</b>	EXC-06654-X4S3Q002	<b>Rig</b>	H&P 290
<b>Project ID</b>	PRJ1006684		

## WELL GEOMETRY

Type	ID (in)	OD (in)	Wt. (lb/ft)	MD (ft)	Excess(%)	Grade	Thread
Previous Casing	8.02	8.63	28.00	1,567.00		J-55	ST&C
Open Hole	7.88			7,949.00	35.00		
Casing	4.00	4.50	11.60	7,943.00		L-80	LT&C

**Shoe Length (ft):** 83

## HARDWARE

<b>Bottom Plug Used?</b>	Yes	<b>Tool Type</b>	Float Collar
<b>Bottom Plug Provided By</b>	Non BJ	<b>Tool Depth (ft)</b>	7,860.00
<b>Bottom Plug Size</b>	4.500	<b>Max Tubing Pressure - Rated (psi)</b>	-
<b>Top Plug Used?</b>	Yes	<b>Max Tubing Pressure - Operated (psi)</b>	-
<b>Top Plug Provided By</b>	Non BJ	<b>Max Casing Pressure - Rated (psi)</b>	10,690.00
<b>Top Plug Size</b>	4.500	<b>Max Casing Pressure - Operated (psi)</b>	8,552.00
<b>Centralizers Used</b>	Yes	<b>Pipe Movement</b>	None
<b>Centralizers Quantity</b>	-	<b>Job Pumped Through</b>	Manifold
<b>Centralizers Type</b>	Bow	<b>Top Connection Thread</b>	8RD
<b>Landing Collar Depth (ft)</b>	7,860	<b>Top Connection Size</b>	4.5

# 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	-
Circulation Time (min)	90.00	10 min SGS	-
Circulation Rate (bpm)	7.00	30 min SGS	-
Circulation Volume (bbls)	630.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	10.3	Gas Units	0
Mud Density Out (ppg)			
PV Mud In	21		
PV Mud Out	-		
YP Mud In	21		
YP Mud Out	-		

## TEMPERATURE

Ambient Temperature (°F)	60.00	Slurry Cement Temperature (°F)	63.00
Mix Water Temperature (°F)	60.00	Flow Line Temperature (°F)	103.00

## 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	11.00			0.00				60.00
Lead Slurry	BJCem P100.3.01R	12.70	1.9849	11.10	1,030.00	4,370.00	695	1,372.00	245.00
Tail Slurry	BJCem P70.6.01R	13.50	1.8561	9.31	5,400.00	2,585.00	424	802.00	140.00
Displacement Final	Water + ResCare +Biocide	8.33			0.00			0.00	122.00

# Cementing Treatment



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

# Cementing Treatment



## TREATMENT SUMMARY

Time	Fluid	Rate (bpm)	Fluid Vol. (bbls)	Pipe Pressure (psi)	Comments
5/12/2018 1:54 AM	IntegraGuard EZ Spacer	5.00	60.00	525.00	SPACER
5/12/2018 2:09 AM	BJCem P100.3.01R	5.00	245.00	324.00	LEAD CEMENT
5/12/2018 3:06 AM	BJCem P70.6.01R	5.00	140.00	391.00	TAIL CEMENT
5/12/2018 3:45 AM	Water + ResCare +Biocide	8.00	122.00	2,407.00	DISPLACEMENT

	Min	Max	Avg
Pressure (psi)	130.00	2,407.00	1,268.50
Rate (bpm)	2.00	8.00	5.00

## DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	25.00
Calculated Displacement Volume (bbls)	122.00	Method Used to Verify Returns	Visual
Actual Displacement Volume (bbls)	122.00	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	1.00
Bump Plug Pressure (psi)	1,921.00	Total Volume Pumped (bbls)	567.00
Were Returns Planned at Surface	Yes	Top Out Cement Spotted	No
Cement returns During Job	Full	Lost Circulation During Cement Job	No

Customer Name	<u>LARAMIE</u>	District	<u>RIFLE</u>
Well Name	<u>NICHOLS 24-19W</u>	Supervisor	<u>JAVIER CASTILLO</u>
Job Type	<u>LONG STRING</u>	Engineer	<u>GAGE PUTNAM</u>



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	5/11/2018	19:00	CALL OUT					ON LOCATION AT MIDNIGHT
2	5/11/2018	20:15	MEETING					STEACS JOURNEY MANAGEMENT MEETING WITH BJ CREW
3	5/11/2018	20:30	LEAVE YARD					LEAVE YARD
4	5/11/2018	23:00	ARRIVE ON LOC.					ARRIVE ON LOCATION, RIG LANDING CASING
5	5/11/2018	23:50	MEETING					STEACS SAFETY MEETING
6	5/11/2018	23:55	RIG UP					RIG UP BJ EQUIPMENT
7	5/12/2018	1:00	COMPLETE					RIG UP COMPLETE
9	5/11/2018	23:30	LAND CASING					RIG LANDED CASING
10	5/11/2018	23:35	CIRCULATE					RIG CIRCULED WELL
11	5/12/2018	1:30	MEETING					PRE-JOB SAFETY MEETING WITH RIG CREW
12	5/12/2018	1:49	FILL LINES	8.34	2	5	525	DROP BOTTOM PLUG, FILL PUMPING LINES
19	5/12/2018	1:52	TEST LINES				5600	PRESSURE TEST PUMPING IRON
20	5/12/2018	1:54	SPACER	11	5	60	525	WEIGHTED SPACER
21	5/12/2018	2:09	LEAD CEMENT	12.7				BEGIN LEAD CEMENT 695SKS/245BBLS AT 12.7, 1.98, 11.10
22	5/12/2018	2:21	LEAD CEMENT	12.7	5	50	324	50BBLS LEAD CEMENT PUMPED
23	5/12/2018	2:30	LEAD CEMENT	12.7	5	50	323	100BBLS LEAD CEMENT PUMPED
24	5/12/2018	2:40	LEAD CEMENT	12.7	5	50	165	150BBLS LEAD CEMENT PUMPED
25	5/12/2018	2:48	LEAD CEMENT	12.7	5.5	50	252	200BBLS LEAD CEMENT PUMPED
26	5/12/2018	3:00	LEAD CEMENT	12.7	3.5	45	130	245BBLS LEAD CEMENT PUMPED
28	5/12/2018	3:06	TAIL CEMENT	13.5				BEGIN TAIL CEMENT 424SKS/140BBLS, AT 13.5, 1.85, 9.31
29	5/12/2018	3:16	TAIL CEMENT	13.5	5	50	391	50BBLS TAIL CEMENT PUMPED
30	5/12/2018	3:25	TAIL CEMENT	13.5	5	90	309	140BBLS TOTAL OF TAIL CEMENT PUMPED
31	5/12/2018	3:36	SHUTDOWN					WASH PUMP AND LINES TO THE PIT, DROP TOP PLUG
32	5/12/2018	3:45	DISPLACEMENT	8.34				BEGIN DISPLACEMENT FRESH WATER + RESCARE + BIOCID
33	5/12/2018	3:50	DISPLACEMENT	8.34	9	50	2140	50BBLS DISPLACEMENT PUMPED
34	5/12/2018	3:56	DISPLACEMENT	8.34	8	62	2407	107BBLS DISPLACEMENT PUMPED
35	5/12/2018	3:59	SLOW RATE	8.34	3.8	10	2371	SLOW RATE ON LAST 10BBLS OF DISPLACEMENT
36	5/12/2018	4:02	LAND PLUG				3300	BUMPED TOP PLUG, CIRCULATION THROUGH OUT JOB
37	5/12/2018	4:12	CHECK FLOATS				3500	FLOATS HELD, 1 BBLS FLOW BACK
38	5/12/2018	4:20	MEETING					RIG DOWN SAFETY MEETING
39	5/12/2018	4:25	RIG DOWN					WASH UP PUMP, RIG DOWN BJ EQUIPMENT
40	5/12/2018	4:30	COMPLETE					RIG DOWN COMPLETE
41	5/12/2018	5:00	MEETING					AAR JOURNEY MANAGEMENT MEETING
42	5/12/2018	5:15	LEAVE LOCATION					BJ CREW LEAVE LOCATION
43	5/12/2018	5:16						CALCULATED TOP OF TAIL 4,520FT, RETURNS
44	5/12/2018	5:17				25		GOT 25 BBLS CEMENT TO SURFACE
45	5/12/2018	5:18						THANK YOU FOR YOUR BUSINESS FROM JAVIER AND CREW



JobMaster Program Version 4.02C1

Job Number: 5408

Customer: LARAMIE

Well Name: NICHOLS 24-19W

