



Laramie Energy

Surface Post Job Report

Nichols 0994-24-16W 05-077-10384

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

Quote #:

I Execution #:



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	3/25/2018	Well	Nichols 0994-24-16W
End Date	3/25/2018	County	MESA
Client	LARAMIE ENERGY	State/Province	CO
Client Field Rep	Matt S.	API	05-077-10384
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			1,030.00	48.00		
Open Hole	11.00			1,567.00	75.00		
Casing	8.02	8.63	28.00	1,557.00		J-55	ST&C

Shoe Length (ft): 44

HARDWARE

Bottom Plug Used?	Yes	Tool Type	Float Collar
Bottom Plug Provided By	Non BJ	Tool Depth (ft)	1,510.00
Bottom Plug Size	8.625	Max Casing Pressure - Rated (psi)	1,880.00
Top Plug Used?	Yes	Max Casing Pressure - Operated (psi)	1,504.00
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	18.00	Top Connection Size	8.625
Centralizers Type	Bow		
Landing Collar Depth (ft)	1,510		

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	5.00
Circulation Rate (bpm)	8.00	30 min SGS	8.00
Circulation Volume (bbls)	240.00	Flare Prior to/during the Cement Job	No
Lost Circulation Prior to Cement Job	No	Gas Present	No
Mud Density In (ppg)	9.30	Gas Units	0
Mud Density Out (ppg)	9.30		
PV Mud In	11		
PV Mud Out	11		
YP Mud In	11		
YP Mud Out	11		

TEMPERATURE

Ambient Temperature (°F)	46.00	Slurry Cement Temperature (°F)	93.50
Mix Water Temperature (°F)	80.80	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	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
Lead Slurry	BJCem S100.3.01D	CEMENT EXTENDER, GYPSUM, A-10	5.0000	BWOB
Lead Slurry	BJCem S100.3.01D	IntegraSeal CELLO	0.1300	LBS/SK
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	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, 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)
3/25/2018 10:40 AM	Fresh Water	5.00	40.00	489.00
3/25/2018 10:50 AM	BJCem S100.3.01D	4.50	76.60	357.00
3/25/2018 11:14 AM	BJCem S100.3.01D	4.00	42.50	242.00
3/25/2018 11:27 AM	Water	6.00	96.06	364.00

	Min	Max	Avg
Pressure (psi)	81	1132	364
Rate (bpm)	2	8	4

Cementing Treatment



DISPLACEMENT AND END OF JOB SUMMARY

Displaced By	BJ	Amount of Cement Returned/Reversed	32.00
Calculated Displacement Volume (bbls)	96.06	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)	547.00	Total Volume Pumped (bbls)	267.00
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 24-16W Supervisor ANDREW LINN
 Job Type Surface Engineer ZEN KIETH



Seq No.	Start Date	Start Time	Event	Density (lb/gal)	Pump Rate (bpm)	Pump Vol (bbls)	Pipe Pressure (psi)	Comments
1	3/25/2018	0:30	CALL OUT					CREW CALL OUT ON LOCATION TIME OF 7:00
2	3/25/2018	6:30	ALREADY ON LOCATION					CREW WAS ALREADY ON LOCATION
3	3/25/2018	6:35	SITE ASSESSMENT					SITE ASSESSMENT
4	3/25/2018	6:42	SPOT EQUIPMENT					SPOT IN BULK TRUCK
5	3/25/2018	6:55	STEACS					PRE RIG UP SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
6	3/25/2018	7:10	RIG UP					RIG UP ALL GROUND EQUIPMENT
7	3/25/2018	9:50	SAFETY MEETING					PRE JOB SAFETY MEETING WITH RIG CREW AND ALL BJ SERVICES CEMENT CREW.
8	3/25/2018	10:02	RIG UP					LOAD PLUGS IN PLUG CONTAINER, STAB PLUG CONTAINER, HOOK LINES TO PLUG CONTAINER
9	3/25/2018	10:13	FILL LINE	8.33	2	5	81	FILL LINES WITH 5 BBLS. FRESH WATER
10	3/25/2018	10:16	DROP PLUG					DROP BOTTOM PLUG
11	3/25/2018	10:37	PRESSURE TEST				3106	PRESSURE TEST TO 3106 PSI.
12	3/25/2018	10:40	SPACER	8.33	5	6	489	FRESH WATER SPACER
13	3/25/2018	10:47	SPACER	8.33	5	40	420	FRESH WATER SPACER
14	3/25/2018	10:50	LEAD CEMENT	12	4.5	5	357	LEAD CEMENT 12 PPG 170 SKS. 2.53 CUFT/SK 14.89 GAL/SK FOR A TOTAL OF 76.6 BBLS OF LEAD REQUIRING 67.71 BBLS OF FRESH WATER. WEIGHT VERIFIED WITH MUD SCALES.
15	3/25/2018	10:57	LEAD CEMENT	12	3	35	142	PUMPED LEAD CEMENT
16		11:00	LEAD CEMENT	12	4	45	254	PUMPED LEAD CEMENT
17	3/25/2018	11:02	LEAD CEMENT	12	4	50	208	PUMPED LEAD CEMENT
18	3/25/2018	11:12	LEAD CEMENT	12	4	87	216	FINISHED PUMPING LEAD CEMENT WITH 87 BBLS. AWAY
19	3/25/2018	11:14	TAIL CEMENT	12.5	4	5	242	TAIL CEMENT 12.5 PPG 107 SKS 2.23 CUFT/SK 12.62 GAL/SK FOR A TOTAL OF 45.5 BBLS OF TAIL REQUIRING 32.15 BBLS OF FRESH WATER. WEIGHT VERIFIED WITH MUD SCALES.
20	3/25/2018	11:24	TAIL CEMENT	12.5	4	44.2	264	FINISHED PUMPING TAIL CEMENT WITH 44.2 BBLS. AWAY
21	3/25/2018	11:24	SHUT DOWN					SHUT DOWN
22	3/25/2018	11:25	DROP PLUG					DROP TOP PLUG. VERIFIED BY DRILLER
23	3/25/2018	11:27	DISPLACEMENT	8.33	6	10	364	FRESH WATER DISPLACEMENT WITH FIRST 10 BBLS. THREW MIX TUB
24	3/25/2018	11:29	DISPLACEMENT	8.33	8	20	552	FRESH WATER DISPLACEMENT
25	3/25/2018	11:32	DISPLACEMENT	8.33	8	50	818	FRESH WATER DISPLACEMENT
26	3/25/2018	11:38	DISPLACEMENT	8.33	8	85	1132	FRESH WATER DISPLACEMENT
27	3/25/2018	11:34	CEMENT TO SURFACE					32 BBLS OF CEMENT TO SURFACE VERIFIED BY COMPANY MAN
28	3/25/2018	11:38	DISPLACEMENT	8.33	2	86	507	FRESH WATER DISPLACEMENT
29	3/25/2018	11:42	DISPLACEMENT	8.33	2	96	547	FRESH WATER DISPLACEMENT
30	3/25/2018	11:42	LAND PLUG				1590	LANDED PLUG
31	3/25/2018	11:42	CASING TEST					10 MIN CASING TEST AT 1590 PSI.
32	3/25/2018	11:53	CHECK FLOATS					CHECK FLOATS FLOATS HELD 1/2 BBL. BACK
33	3/25/2018	11:58	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH RIG CREW
34	3/25/2018	12:06	RIG DOWN					RIG DOWN THE RIG FLOOR
35	3/25/2018	12:08	WASH PUMPS AND LINES					WASH PUMPS AND LINES INTO CELLAR
36	3/25/2018	12:20	SAFETY MEETING					PRE RIG DOWN SAFETY MEETING WITH ALL BJ SERVICES CEMENT CREW
37	3/25/2018	12:28	RIG DOWN					RIGGED DOWN ALL EQUIPMENT
38	3/25/2018	12:40	AAR					AFTER ACTION REVIEW
39	3/25/2018	12:45	STEACS					PRE CONVOY SAFETY MEETING
40	3/25/2018	12:58	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: 4149
Customer: LARAMIE
Well Name: NICHOLS 24-16W

