

HALLIBURTON

iCem[®] Service

NICKEL ROAD OPERATING LLC

Ft. Lupton District, CO

Reeman 6X-HNC-04-06-65 Surface

Job Date: Wednesday, March 23, 2022

Sincerely,

Meghan Van Zyl

Legal Notice

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1.0 Cementing Job Summary

1.1 Executive Summary

Halliburton appreciates the opportunity to perform the cementing services on the **Reeman 6X-HNC-04-06-65** cement **Surface** casing job. A pre-job safety meeting was held before the job where details of the job were discussed, potential safety hazards were reviewed, and environmental compliance procedures were outlined.

Approximately 20 bbls of cement were returned to surface.

Halliburton maintains a continuous quality improvement process and appreciates any comments or suggestions that you may have. Halliburton again thanks you for the opportunity to perform service work on this well. We hope to be your solutions provider for future projects.

Respectfully,

Halliburton Fort Lupton

Sold To #: 382767		Ship To #: 9107766		Quote #:		Sales Order #: 0907754185	
Customer: NICKEL ROAD OPERATING LLC				Customer Rep: Todd Stephens			
Well Name: REEMAN			Well #: 6X-HNC-04-06-65		API/UWI #:		
Field:		City (SAP): EATON		County/Parish: WELD		State: COLORADO	
Legal Description:							
Contractor: IKON DRLG				Rig/Platform Name/Num: IKON 12			
Job BOM: 7521 7521							
Well Type: OIL							
Sales Person: HALAMERICA\HX41066				Srvc Supervisor: Michael Loughran			

Job

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type			BHST
Job depth MD	1753ft		Job Depth TVD
Water Depth			Wk Ht Above Floor
Perforation Depth (MD)	From		To

Well Data

Description	New / Used	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Casing		16	15.376	55			0	80		
Casing		9.625	8.921	36	LTC	J-55	0	1753		
Open Hole Section			13.5				80	1753		

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625			1753	Top Plug	9.625		HES
Float Shoe	9.625				Bottom Plug	9.625		HES
Float Collar	9.625				SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625		HES
Stage Tool	9.625				Centralizers	9.625		HES

Fluid Data

Stage/Plug #: 1									
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water	10	bbl	8.33			4	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	SwiftCem	SBM SWIFTCEM CEMENT SYSTEM CEM	600	sack	13.5	1.75		8	9.25

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft ³ /sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal	
3	Displacement Fluid	Displacement Fluid	132.5	bbl	8.34			9.8		
Cement Left In Pipe		Amount	38.32 ft		Reason			Shoe Joint		
Mix Water:		Ph 7	Mix Water Chloride:		Less 200 ppm		Mix Water Temperature:			75 °F
Cement Temperature:			Plug Displaced by:		8.33 lb/gal		Disp. Temperature:			
Plug Bumped?		Yes	Bump Pressure:		1100 psi		Floats Held?			Yes
Cement Returns:		20 bbls	Returns Density:		13.5 lb/gal		Returns Temperature:			
Comment TOC=0'										

2.0 Real-Time Job Summary

2.1 Job Event Log

Seq No.	Activity	Graph Label	Date	Time	Dwnhole Density (ppg)	Cmb Pump Rate (bbl/min)	Pump B Pressure (psi)	Cmb Stg Total (bbl)	Comments
1	Call Out	Call Out	3/23/2022	00:01:00					CREW STAGED ON LOCATION. CALLED OUT AT 0001 HRS. ON 3/23/2022 REQUESTED ON LOCATION 03:30 HRS. ON 3/23/2022. CREW STAGED ON LOCATION FROM PREVIOUS WELLS
2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	3/23/2022	00:02:00					JSA SAFE DRIVING
3	Crew Leave Yard	Crew Leave Yard	3/23/2022	00:03:00					CREW LEAVES YARD
4	Arrive At Loc	Arrive At Loc	3/23/2022	00:04:00					MEET WITH CUSTOMER. 1753' J-55 36# 9.625" CASING. TD 1753' F/C 1714.68', 13.5" HOLE, WATER 75 DEGREES, CHLORIDES LESS THAN 200 PPM, PH 7
5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	3/23/2022	04:00:00					HAZARD HUNT, JSA SAFE RIG UP
6	Rig-Up Equipment	Rig-Up Equipment	3/23/2022	04:05:00					RIG UP ALL HES EQUIPMENT AND IRON TO BUFFER ZONE
7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/23/2022	06:00:00	8.62	0.00	-6.77	12.86	DISCUSS HAZARDS OF HES EQUIPMENT AND PRESSURE
8	Start Job	Start Job	3/23/2022	06:10:26	9.01	0.00	-6.22	0.00	BEGIN RECORDING DATA, RIG CIRC BOTTOMS UP 10/250 PSI
9	Test Lines	Test Lines	3/23/2022	06:11:57	8.83	0.00	20.78	3.43	TEST HES LINES 2500 PSI

10	Pump Spacer 1	Pump Spacer 1	3/23/2022	06:15:26	8.72	0.00	1.13	0.00	10 BBLS. FRESH WATER SPACER W/.5 LBS. GREEN DYE
11	Pump Cement	Pump Cement	3/23/2022	06:21:44	8.45	1.63	18.27	0.01	600 SACKS SBM SWIFTCEM CEMENT. 187 BBLS. 13.5 PPG, 1.75 YIELD, 9.25 GAL/SACK. 20 BBLS. CEMENT TO SURFACE. TOC=0'
12	Shutdown	Shutdown	3/23/2022	06:46:31	-0.65	0.00	16.97	191.64	SHUTDOWN
13	Drop Top Plug	Drop Top Plug	3/23/2022	06:52:21	-1.33	0.00	-19.39	191.64	SCEPTRE TOP PLUG VERIFIED BY TODD.
14	Pump Displacement	Pump Displacement	3/23/2022	06:52:31	-1.33	0.00	-19.25	0.00	132.5 BBLS. FRESH WATER DISPLACEMENT.
15	Shutdown	Shutdown	3/23/2022	07:06:35	7.51	0.00	447.42	116.51	SHUTDOWN 5 MIN. TO STAGE CEMENT
16	Resume	Resume	3/23/2022	07:11:51	7.44	1.47	356.54	116.56	RESUME PUMPING
17	Bump Plug	Bump Plug	3/23/2022	07:19:00	8.50	0.00	1110.39	131.13	FCP 540 PSI/2 BPM, BUMP 1100 PSI
18	Check Floats	Check Floats	3/23/2022	07:19:24	8.49	0.00	1246.28	131.13	FLOATS HOLD, .5 BBLS. BACK TO PUMP TRUCK
19	End Job	End Job	3/23/2022	07:19:51	8.38	0.00	35.16	0.00	STOP RECORDING DATA. PUMPED 15 BBLS WATER IN CELLAR TO CLEAN RIGS PUMP
20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/23/2022	07:30:00					JSA SAFE RIG-DOWN
21	Rig-Down Equipment	Rig-Down Equipment	3/23/2022	07:35:00					RIG DOWN HES EQUIPMENT
22	Rig-Down Completed	Rig-Down Completed	3/23/2022	08:30:00					RIG-DOWN COMPLETED
23	Crew Leave Location	Crew Leave Location	3/23/2022	09:30:00					CREW LEAVE LOCATION.

3.0 Attachments

3.1 Real Time iCem Job Chart

