

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 ft³/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	Fresh Water	Fresh Water	10	bbl	8.33			4		
Fluid Data										
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft³/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
2	SwiftCem	SBM SWIFTCM 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 ft3/sack	Mix Fluid Gal	Rate bbl/min	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

