

# HALLIBURTON

iCem<sup>®</sup> Service

## **NICKEL ROAD OPERATING LLC**

**For: Hans Cary**

Date: Tuesday, May 04, 2021

**NICKEL ROAD, BLEHM 5X-HC- 10-07-67 9.625" SURFACE**

**NICKEL ROAD, BLEHM 5X-HC- 10-07-67**

Job Date: Tuesday, May 04, 2021

Sincerely,

**Nick Roles and Crew**

## Legal Notice

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## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 382767	Ship To #: 9072772	Quote #:	Sales Order #: 0907107412
Customer: NICKEL ROAD OPERATING LLC		Customer Rep: Todd Stephens	
Well Name: BLEHM 5X-HC-	Well #: 10-07-67	API/UWI #: 05-123-51479	
Field:	City (SAP): AULT	County/Parish: Weld	State: COLORADO
Legal Description:			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 37	
Job BOM: 7521 7521			
Well Type: OIL			
Sales Person: HALAMERICA\HX41066		Srcv Supervisor: Nicholas Roles	
Job			

Formation Name		Bottom	
Formation Depth (MD)	Top	BHST	
Form Type		Job Depth TVD	
Job depth MD	1682ft	Wk Ht Above Floor	
Water Depth		To	
Perforation Depth (MD)	From		

### 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	1682		1682
Open Hole Section			13.5				80	1695	80	1695

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	9.625				Top Plug	9.625	1	HES
Float Shoe	9.625			1682	Bottom Plug	9.625	1	HES
Float Collar	9.625			1641	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625	1	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 <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
1	Fresh Water	Fresh Water	10	bbl	8.33			6	

Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
2	SwiftCem	SWIFTCEM (TM) SYSTEM	625	sack	13.5	1.742		8.5	9.18
			0.13 lbm						POLY-E-FLAKE (101216940)
			9.18 Gal						FRESH WATER

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Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft <sup>3</sup> /sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
3	Displacement Fluid	Displacement Fluid	127	bbl	8.34			10	
<b>Cement Left In Pipe</b>		<b>Amount</b>	41 ft		<b>Reason</b>			Shoe Joint	
<b>Mix Water:</b>		pH 7	<b>Mix Water Chloride:</b>		0 ppm		<b>Mix Water Temperature:</b>		
<b>Cement Temperature:</b>		## °F °C	<b>Plug Displaced by:</b>		8.33 lb/gal		<b>Disp. Temperature:</b>		
<b>Plug Bumped?</b>		Yes	<b>Bump Pressure:</b>		1050 psi MPa		<b>Floats Held?</b>		
<b>Cement Returns:</b>		20 bbl m3	<b>Returns Density:</b>		## lb/gal kg/m3		<b>Returns Temperature:</b>		
<b>Comment</b>		Got 20bbls cement to surface. Casing run with 11 centralizers.							

## 2.0 Real-Time Job Summary

### 2.1 Job Event Log

Type	Seq No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	Comments
Event	1	Call Out	Call Out	5/4/2021	00:00:00	USER					Called out by service coordinator for OL time of 0430.
Event	2	Arrive at Location from Service Center	Arrive at Location from Service Center	5/4/2021	05:00:00	USER					Upon arrival to location, signed in with onsite safety personnel. Met with company man and discussed job specific requirements and specifications.
Event	3	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/4/2021	05:05:00	USER					Held pre rig up JSA for hazards, hazard hunt with crew, and discussed plan for spotting equipment and rigging up lines for job. Discussed muster points and closest emergency location as well as coordinates.
Event	4	Rig-Up Equipment	Rig-Up Equipment	5/4/2021	05:15:00	USER					Begin rig up with

				1	0						crew.
Event	5	Rig-Up Completed	Rig-Up Completed	5/4/2021	05:45:00	USER					Complete rig up for job to nearest point before red zone.
Event	6	Other	Other	5/4/2021	05:55:00	USER					Mix water test results-PH-7, Chlo-0, Temp-65F.
Event	7	Safety Meeting - Pre Job	Safety Meeting - Pre Job	5/4/2021	06:00:00	USER					Held job specific hazards as well as confirming job procedure with co man and rest of crew associated with job.
Event	8	Start Job	Start Job	5/4/2021	06:25:35	COM10	8.43	0.00	5.00	0.00	TD-1695' 13.5", TP-1682' 9.625" 36#, FC-1641', Mud-8.6#
Event	9	Drop Bottom Plug	Drop Bottom Plug	5/4/2021	06:28:10	COM10	8.47	1.80	76.00	1.00	Dropped by HES supervisor, witnessed by company man.
Event	10	Test Lines	Test Lines	5/4/2021	06:28:56	COM10	8.46	0.00	59.00	1.80	Pumped 3bbls to fill lines, established circulation, shutdown and closed manifold, performed 500psi k/o function test, continued with 5th gear stall at 1850psi proceeded to bring pressure to 3500psi. Pressure stabilized

Event	11	Pump Spacer 1	Pump Spacer 1	5/4/2021	06:31:01	COM10	8.44	0.00	46.00	0.00	and held with no leaks. Pumped 10bbls fresh water with 0.5# Red Dye at 2bpm 50psi.
Event	12	Pump Cement	Pump Cement	5/4/2021	06:38:21	COM10	8.45	3.30	105.00	0.00	Pumped 625sks or 186bbls 13.5# 1.74y 9.17g/s Swiftcem at 8.5bpm 350psi.
Event	13	Check Weight	Check Weight	5/4/2021	06:43:59	COM10	13.48	8.50	329.00	24.20	Weight verified with pressurized mud scales.
Event	14	Shutdown	Shutdown	5/4/2021	07:06:26	COM10	13.99	0.00	77.00	204.40	
Event	15	Drop Top Plug	Drop Top Plug	5/4/2021	07:07:05	COM10	15.10	0.00	-7.00	0.00	Dropped by HES supervisor, witnessed by company man.
Event	16	Pump Displacement	Pump Displacement	5/4/2021	07:07:08	COM10	15.14	0.00	-7.00	0.00	Pumped 127bbls of fresh water at 9bpm 500psi.
Event	17	Rig Down Lines	Rig Down Lines	5/4/2021	07:15:00	USER	8.05	9.20	290.00	45.70	Begin rig down
Event	18	Bump Plug	Bump Plug	5/4/2021	07:26:58	COM10	8.09	0.00	854.00	130.50	Slowed down to 4bpm at 100bbls away, final circulating pressure - 550psi, Bumped at 1050psi.

Event	19	End Job	End Job	5/4/2021	07:28:34	COM10	8.06	0.00	-22.00	0.00	Got 20bbls cement to surface. Casing run with 11 centralizers.
Event	20	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/4/2021	07:30:00	USER	8.06	0.80	-8.00	1.10	Held safety meeting with crew prior to rig down, discussed possibility of trapped pressure, swing radius, slips trips and falls, pinch points and risks associated with rig down.
Event	21	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/4/2021	08:15:00	USER					Held safety meeting with convoy, discussed trip hazards, directions and all crew fit for duty prior to departure.
Event	22	Rig-Down Completed	Rig-Down Completed	5/4/2021	08:15:00	USER					Rig down complete with no injuries, spills or damage to equipment.
Event	23	Depart Location for Service Center or Other Site	Depart Location for Service Center or Other Site	5/4/2021	08:30:00	USER					Depart location, if applicable journey will be submitted.

## 3.0 Attachments

### 3.1 NICKEL ROAD, BLEHM 5X-HC- 10-07-67 -Custom Results.png

