

HALLIBURTON

iCem[®] Service

NICKEL ROAD OPERATING LLC

Ft. Lupton District, CO

For: HANS CARY

Date: Saturday, May 15, 2021

BLEHM 5X-HC

WELD COUNTY

BLEHM 5X-HC-10-07-67

Job Date: Saturday, May 15, 2021

Sincerely,

MIKE LOUGHRAN

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 #: 0907141996
Customer: NICKEL ROAD OPERATING LLC		Customer Rep: Hans Cary	
Well Name: BLEHM 5X-HC-	Well #: 10-07-67	API/UWI #:	
Field:	City (SAP): AULT	County/Parish: 10-07-67	State: COLORADO
Legal Description:			
Contractor: CYCLONE		Rig/Platform Name/Num: CYCLONE 37	
Job BOM: 7523 7523			
Well Type: OIL			
Sales Person: HALAMERICA\HX41066		Srcv Supervisor: Michael Loughran	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	19174ft 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		9.625	8.921	36	LTC	J-55	0	1682	0	1682
Casing		5.5	4.778	20	GB CD	P-110	0	19174	0	7182
Open Hole Section			8.5				1682	19198	1682	7182

Tools and Accessories

Type	Size in	Qty	Make	Depth ft	Type	Size in	Qty	Make
Guide Shoe	5.5				Top Plug	5.5	1	
Float Shoe	5.5			19174	Bottom Plug	5.5	1	
Float Collar	5.5			19148.7	SSR plug set	5.5		
Insert Float	5.5				Plug Container	5.5	1	
Stage Tool	5.5				Centralizers	5.5	245	

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	Tuned Prime	TUNED PRIME CEMENT SPACER SYS	50	bbl	11.5	3.71		6	
		1 lbm/bbl							FE-2, 2000 LB BAG - (1005549)
		151.2270 lbm/bbl							BARITE, BULK (100003681)
		35.6590 gal/bbl							FRESH WATER
		0.10 gal/bbl							D-AIR 3000L, 5 GAL PAIL (101007444)
		4 lbm/bbl							SEM-93P, 35 LB SACK - (1023977)
		4 lbm/bbl							SEM-94P, 35 LB SACK - (1023987)

Cementing Job Summary

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
2	ElastiCem	SBM CEM ELASTICEM™ SYS	3050	sack	13.2	1.6		9	7.65
0.35 %		SCR-100, 1200 LB BAG - (1126328)							
7.65 Gal		FRESH WATER							
0.1250 lbm		POLY-E-FLAKE (101216940)							
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	MMCR Displacement	MMCR Displacement	20	bbl	8.33			10	
0.50 gal/bbl		MICRO MATRIX CEMENT RETARDER, 5 GAL PAIL (100003781)							
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
4	Displacement	Displacement	404.5	bbl	8.33			8	
Cement Left In Pipe	Amount	25.3 ft		Reason				Shoe Joint	
Mix Water:	pH 6	Mix Water Chloride:	Less 200 ppm		Mix Water Temperature:		54 °F		
Cement Temperature:		Plug Displaced by:	8.33 lb/gal		Disp. Temperature:				
Plug Bumped?	Yes	Bump Pressure:	3280 psi		Floats Held?		Yes		
Cement Returns:		Returns Density:			Returns Temperature:				
Comment 45 BBL CEMENT TO SURFACE TOC=0'									

2.0 Real-Time Job Summary

2.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DS Pump Press (psi)	Pump Stg Tot (bbl)	DH Density (ppg)	Comments
Event	1	Call Out	Call Out	5/14/2021	13:00:00	USER					CREW CALLED OUT AT 1300 HRS 5/14/2021
Event	2	Pre-Convoy Safety Meeting	Pre-Convoy Safety Meeting	5/14/2021	16:00:00	USER					CREW DISCUSSED ROUTES, HAZARDS, AND COMMUNICATION WITH CREW.
Event	3	Crew Leave Yard	Crew Leave Yard	5/14/2021	16:25:00	USER					CREW LEAVES YARD
Event	4	Arrive At Loc	Arrive At Loc	5/14/2021	18:00:00	USER					MEET WITH CO. MAN TO DISCUSS JOB; SURFACE CASING- 9.625" 36 LB/FT @ 1682', 5.5" CASING: 20 LB/FT TOTAL 19174', 8.5" HOLE, TD 19198', 25.3' SHOE TRAC, TVD- 7182'. WATER TEST 54 DEGREES, PH 6, CHLORIDES LESS 200 PPM
Event	5	Pre-Rig Up Safety Meeting	Pre-Rig Up Safety Meeting	5/14/2021	18:30:00	USER					HAZARD HUNT. DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH LOCATION, RIG UP, AND WEATHER.

Event	6	Rig-Up Equipment	Rig-Up Equipment	5/14/2021	18:35:00	USER						CREW STAGED EQUIPMENT AND RIGGED UP BULK, IRON AND WATER HOSES TO PERFORM JOB.
Event	7	Pre-Job Safety Meeting	Pre-Job Safety Meeting	5/14/2021	23:00:00	USER	0.00	2.00	0.00	8.10		SAFETY MEETING WITH HALLIBURTON, AND RIG PERSONNEL. CREW COMMUNICATED POTENTIAL SAFETY HAZARDS, AND JOB DETAILS.
Event	8	Start Job	Start Job	5/14/2021	23:35:33	COM5	0.00	1.00	0.00	8.09		
Event	9	Start Job	Start Job	5/15/2021	00:16:56	COM5	0.00	2.00	0.00	7.96		BEGIN RECORDING DATA
Event	10	Drop Bottom Plug	Drop Bottom Plug	5/15/2021	00:17:03	COM5	0.00	3.00	0.00	8.04		BOTTOM PLUG VERIFIED BY TODD
Event	11	Test Lines	Test Lines	5/15/2021	00:18:36	COM5	0.00	90.00	2.60	8.03		TEST LINES TO 4500 PSI
Event	12	Pump Spacer 1	Pump Spacer 1	5/15/2021	00:22:28	COM5	0.00	34.00	2.60	8.03		50 BBLS TUNED PRIME SPACER 11.5 PPG, 3.71 YIELD, 23.58 GAL/SACK
Event	13	Pump Cement	Pump Cement	5/15/2021	00:31:08	COM5	7.90	612.00	49.20	12.14		
Event	14	Shutdown	Shutdown	5/15/2021	02:17:12	COM5	0.00	105.00	951.20	13.24		SHUTDOWN
Event	15	Clean Lines	Clean Lines	5/15/2021	02:19:50	COM5	0.00	13.00	951.20	13.62		CLEAN PUMPS AND LINES
Event	16	Drop Top Plug	Drop Top Plug	5/15/2021	02:24:49	COM5	0.00	5.00	14.20	8.41		TOP PLUG VERIFIED BY HANS
Event	17	Pump Displacement	Pump Displacement	5/15/2021	02:25:02	COM5	0.00	9.00	14.20	8.41		424.5 BBLS FRESH WATER DISPLACEMENT W/20 GALLONS MMCR IN FIRST 20 BBLS DISPLACEMENT

Event	18	Bump Plug	Bump Plug	5/15/2021	03:22:45	COM5					FCP 2730 PSI @ 4 BPM, BUMP PRESSURE 3280 PSI, 45 BBLS CEMENT TO SURFACE, TOC=0'
Event	19	Other	Other	5/15/2021	03:23:08	COM5					CHECK FLOATS, FLOATS HOLD, 5 BBLS BACK TO PUMP TRUCK
Event	20	End Job	End Job	5/15/2021	03:24:48	COM5	0.00	0.00	436.90	8.43	STOP RECORDING DATA
Event	21	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	5/15/2021	03:25:00	USER	0.00	-1.00	0.00	8.43	DISCUSSED POSSIBLE HAZARDS ASSOCIATED WITH WEATHER, LOCATION AND RIGGING DOWN IRON AND HOSES.
Event	22	Rig-Down Equipment	Rig-Down Equipment	5/15/2021	03:30:00	USER					RIG DOWN BULK AND MIXING EQUIPMENT
Event	23	Rig-Down Completed	Rig-Down Completed	5/15/2021	04:30:00	USER					ALL HALLIBURTON ITEMS WERE STOWED FOR TRAVEL, AND LOCATION WAS CLEAN.
Event	24	Crew Leave Location	Crew Leave Location	5/15/2021	05:00:00	USER					THANK YOU FOR USING HALLIBURTON – MIKE LOUGHRAN AND CREW.

3.0 Attachments

3.1 BLEHM 5X-HC-10-07-67-JOB CHART.png

