

HALLIBURTON

iCem[®] Service

WHITING OIL & GAS CORP - EBUS

For: Walter White

Date: Tuesday, March 24, 2015

WHITING RAZOR 11 H-1415A

Case 1

Job Date: Monday, March 23, 2015

Sincerely,

Brad Hinkle

The Road to Excellence Starts with Safety

Sold To #: 366960	Ship To #: 3272085	Quote #: 0022017932	Sales Order #: 0902254094
Customer: WHITING OIL & GAS CORP - EBUS		Customer Rep: Walter White	
Well Name: RAZOR	Well #: 11 H-1415A	API/UWI #: 05-123-38601-00	
Field: WILDCAT	City (SAP): RAYMER	County/Parish: WELD	State: COLORADO
Legal Description: SE NE-11-10N-58W-2165FNL-395FEL			
Contractor: FRONTIER DRLG		Rig/Platform Name/Num: FRONTIER 26	
Job BOM: 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX41066		Srcv Supervisor: Bradley Hinkle	

Job

Formation Name	
Formation Depth (MD)	Top Bottom
Form Type	BHST
Job depth MD	1830ft 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	1830		0
Open Hole Section			13.5				0	1840		0

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			1830	Bottom Plug	9.625		HES
Float Collar	9.625			1785	SSR plug set	9.625		HES
Insert Float	9.625				Plug Container	9.625		HES
Stage Tool	9.625				Centralizers	9.625		HES

Miscellaneous Materials

Gelling Agt	Conc	Surfactant	Conc	Acid Type	Qty	Conc
Treatment Fld	Conc	Inhibitor	Conc	Sand Type	Size	Qty

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	Mud Flush III (Powder)	Mud Flush III	10	bbl	8.4			3	
42 gal/bbl			FRESH WATER						
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	SWIFTCEM (TM) SYSTEM	380	sack	12.5	2.17		6	12.35
12.35 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
3	SwiftCem	SWIFTCEM (TM) SYSTEM	210	sack	14.2	1.54		6	7.66
7.66 Gal		FRESH WATER							
Fluid #	Stage Type	Fluid Name	Qty	Qty UoM	Mixing Density lbm/gal	Yield ft3/sack	Mix Fluid Gal	Rate bbl/mi n	Total Mix Fluid Gal
4	Displacement	Fresh Water	138	bbl	8.33			6	
Cement Left In Pipe	Amount	45 ft	Reason					Shoe Joint	
Mix Water: pH	##	Mix Water Chloride:	## ppm		Mix Water Temperature: ## °F °C				
Cement Temperature:	## °F °C	Plug Displaced by: ## lb/gal kg/m3 XXXX			Disp. Temperature: ## °F °C				
Plug Bumped?	Yes/No	Bump Pressure: ### psi MPa			Floats Held? Yes/No				
Cement Returns:	## bbl m3	Returns Density: ## lb/gal kg/m3			Returns Temperature: ## °F °C				
Comment 10 bbls Fresh Water pumped as a second spacer after Mud Flush. 28 bbls Cement to Surface.									

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	Comb Pump Rate (bbbl/min)	PS Pump Press (psi)	Comments
Event	1	Arrive at Location from Service Center	Arrive at Location from Service Center	3/23/2015	20:15:00	USER				PERFORM A SITE ASSESSMENT AND PRE-RIG UP SAFETY MEETING. APPROXIMATELY 30 JOINTS OF CASING TO RUN.
Event	2	Safety Meeting	Safety Meeting	3/23/2015	22:30:00	USER	8.48	0.00	2.00	PRE-JOB SAFETY MEETING WITH ALL PERSONNEL ON LOCATION.
Event	3	Start Job	Start Job	3/23/2015	23:00:49	COM/5	8.49	0.00	2.00	
Event	4	Test Lines	Test Lines	3/23/2015	23:07:47	COM/5	8.33	0.00	1548.00	PRESSURE TEST LINES
Event	5	Pump Spacer 1	Pump Spacer 1	3/23/2015	23:12:37	COM/5	8.28	0.00	2.00	PUMP 10 BBLs FRESH WATER MIXED WITH MUDD FLUSH.
Event	6	Pump Spacer 2	Pump Spacer 2	3/23/2015	23:21:10	COM/5	8.44	2.30	8.00	PUMP 10 BBLs FRESH WATER.
Event	7	Pump Lead Cement	Pump Lead Cement	3/23/2015	23:24:45	COM/5	2.75	0.00	12.00	PUMP 147 BBLs (380 SACKS) SWIFTCEM MIXED AT 12.5 PPG USING SUPPLIED WATER. DENSITY VERIFIED BY PRESSURIZED SCALES.
Event	8	Pump Tail Cement	Pump Tail Cement	3/23/2015	23:54:49	COM/5	13.79	2.30	3.00	PUMP 58 BBLs (210 SACKS) SWIFTCEM MIXED AT 14.2 PPG USING SUPPLIED WATER. DENSITY VERIFIED BY PRESSURIZED SCALES.
Event	9	Shutdown	Shutdown	3/24/2015	00:07:49	COM/5	15.10	0.00	24.00	
Event	10	Drop Top Plug	Drop Top Plug	3/24/2015	00:09:17	COM/5	14.97	0.00	-12.00	TOP PLUG PRELOADED.

HALLIBURTON

Customer: WHITING OIL & GAS CORP - EBUS
 Job: WHITING RAZOR 11 H-1415A SURFACE
 Case: Case 1

Event	11	Pump Displacement	Pump Displacement	3/24/2015	00:09:36	COM5	14.97	0.00	-12.00	PUMP 138 BBL5 FRESH WATER. GOOD RETURNS THROUGHOUT. 28 BBL5 CEMENT TO SURFACE.
Event	12	Bump Plug	Bump Plug	3/24/2015	00:41:09	COM5	8.40	2.00	682.00	BUMP PLUG AT 560 PSI AND BROUGHT 500 PSI OVER. HELD FOR 3 MINUTES.
Event	13	Check Floats	Check Floats	3/24/2015	00:45:23	USER	8.38	0.00	322.00	FLOATS HELD. 1 BBL BACK.
Event	14	End Job	End Job	3/24/2015	00:46:31	USER	8.37	0.00	-19.00	
Event	15	Pre-Rig Down Safety Meeting	Pre-Rig Down Safety Meeting	3/24/2015	00:50:00	USER	8.37	7.90	164.00	PRE-RIG DOWN SAFETY MEETING WITH HES PERSONNEL.

2.0 Attachments

2.1 WHITTING RAZOR 11 H-1415A.png

