

# HALLIBURTON

iCem® Service

## **WHITING OIL & GAS CORP - EBUS**

**For: WALTER WAIT**

Date: Wednesday, April 01, 2015

### **Whiting Oil Razor 11 H-1415A Prod Liner**

RAZOR

Whiting Oil Razor 11 H-1415A Prod Liner

Job Date: Wednesday, April 01, 2015

Sincerely,

**KEN BROOM**

# HALLIBURTON

## Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 366960	Ship To #: 3272085	Quote #:	Sales Order #: 0902289208
Customer: WHITING OIL & GAS CORP - EBUS		Customer Rep: WALTER WAITE	
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: 7525			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX41066		Srvc Supervisor: Kendall Broom	
Job			

Formation Name			
Formation Depth (MD)	Top		Bottom
Form Type	BHST		
Job depth MD	13825ft	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
Drill Pipe		4	3.34	14			0	5100	0	0
Casing		7	6.184	29	LTC	L-80	0	6215	0	0
Casing		4.5	4	11.6	LTC	L-80	5100	12751	0	
Open Hole Section			6.125				6215	12751	0	

### Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	4.5	1		13816		Top Plug	4.5	1	HES
Float Shoe	4.5	1				Bottom Plug	4.5	1	HES
Float Collar	4.5	1				SSR plug set	4.5	1	HES
Insert Float	4.5	1				Plug Container	4.5	1	HES
Stage Tool	4.5	1				Centralizers	4.5	1	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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal	
1	12 lb/gal Tuned Spacer III	Tuned Spacer III	20	bbl	12	3.13	19.8	6		
35.30 gal/bbl		FRESH WATER								
178.42 lbm/bbl		BARITE, BULK (100003681)								

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	Lead Cement	ECONOCEM (TM) SYSTEM	678	sack	13.8	1.61		6	7.36
7.36 Gal		FRESH WATER							
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	Displacement	167	bbl	8.35				
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 ft3/sack	Mix Fluid Gal	Rate bbl/min	Total Mix Fluid Gal
4	Displacement	Displacement	145	bbl	8.35				
0.0578034680 gal/bbl		CLA-WEB - TOTE (101985045)							
Cement Left In Pipe		Amount		ft 83		Reason		Shoe Joint	
Comment									



## 1.0 Real-Time Job Summary

## 1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	DH Density (ppg)	PS Pump Press (psi)	Comb Pump Rate (bbl/min)	Comments
Event	1	Call Out	Call Out	3/31/2015	22:00:00	USER				Called out crew crew to be on location at 0400
Event	2	Depart Shop for Location	Depart Shop for Location	4/1/2015	01:00:00	USER				Held a safety meeting before leaving for location
Event	3	Arrive At Loc	Arrive At Loc	4/1/2015	03:30:00	USER				Arrived on location and met with the company man, The rig still had 2400 ft to go.
Event	4	Rig-up Lines	Rig-up Lines	4/1/2015	03:45:00	USER				Held a hazard hunt before spotting in trucks and rigging up.
Event	5	Safety Meeting	Safety Meeting	4/1/2015	08:40:00	USER	8.61	-6.00	0.00	Held a safety meeting with the rig crew to discuss the operation and safety.
Event	6	Start Job	Start Job	4/1/2015	08:51:33	COM4	8.62	-7.00	0.00	Filled lines with 2 bbl water
Event	7	Test Lines	Test Lines	4/1/2015	09:05:58	COM4	8.55	-9.00	0.00	Tested lines to 5000 psi
Event	8	Pump Spacer 1	Pump Spacer 1	4/1/2015	09:18:49	COM4	11.83	6.00	1.70	Pumped 15 bbl Tuned spacer #12.
Event	9	Pump Lead Cement	Pump Lead Cement	4/1/2015	09:37:26	COM4	10.25	493.00	0.00	Pumped 194.41 bbl Econocem #13.8, 1.61 yield, 7.36 gal/sks
Event	10	Check Weight	Check weight	4/1/2015	09:48:03	COM4	13.85	824.00	3.80	Checked weight on cement @ 13.84
Event	11	Check Weight	Check weight	4/1/2015	09:52:10	COM4	13.85	619.00	3.80	Checked weight on cement @ 13.85
Event	12	Check Weight	Check weight	4/1/2015	10:06:47	COM4	13.78	704.00	4.00	Checked weight on cement @ 13.8

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Event	13	Check Weight	Check weight	4/1/2015	10:21:09	COM4	13.75	1027.00	4.00	Checked weight on cement @ 13.75
Event	14	Shutdown	Shutdown	4/1/2015	10:36:28	COM4	10.59	-17.00	1.00	Shut down to wash up lines and truck
Event	15	Pump Displacement	Pump Displacement	4/1/2015	10:45:08	COM4	8.36	17.00	2.10	Displaced 134 bbl of KCL, the first 10 bbl of that was MMCR. Then we pumped 8 bbl Tuned spacer and finished with 25 bbl KCL. The total displacement was calc. at 167.
Event	16	Bump Plug	Bump Plug	4/1/2015	11:31:41	COM4	7.94	2575.00	0.00	Bumped plug at 167 bbl and 2560 psi. held it for 10 min. and checked floats. WE got 1.5 bbl back on the truck.
Event	17	Other	Other	4/1/2015	11:50:00	USER	7.91	816.00	0.00	Set hanger and stung out
Event	18	Other	Other	4/1/2015	12:00:00	USER	7.91	825.00	0.00	Rolled the hole. 147 bbl. Got 15 bbl Tuned spacer and 16 bbl cement returned
Event	19	Pressure Up Well	Pressure Up Well	4/1/2015	12:46:44	COM4	7.92	1598.00	0.00	Pressured up to 1500 for 10 min. climbed from 1500 to 1666.
Event	20	Rig Down Lines	Rig Down Lines	4/1/2015	13:01:00	USER	8.03	-19.00	0.00	Held a safety meeting before rigging down lines
Event	21	End Job	End Job	4/1/2015	13:03:00	COM4	7.95	-19.00	1.60	
Event	22	Depart Location	Depart Location	4/1/2015	14:00:00	USER				Held a safety huddle before leaving location

2.0 Attachments

2.1 Whiting Oil Razor 11 H-1415A Prod Liner-Custom Results.png

