HALLIBURTON

iCem® Service

WHITING OIL & GAS CORP - EBUS

For:

Date: Monday, March 09, 2015

RAZOR 11 H-0215A

Case 1

Job Date: Monday, March 09, 2015

Sincerely,

HALLIBURTON

Cementing Job Summary

The Road to Excellence Starts with Safety

Sold To #: 366960	**Ship To #:** 3272088	**Quote #:** 0022014635	**Sales Order #:** 0902207697
Customer: WHITING OIL & GAS CORP - EBUS		**Customer Rep:** TYSON DENTON	
Well Name: RAZOR	**Well #:** 11 H-0215A		**API/UWI #:** 05-123-38598-00
Field: WILDCAT	**City (SAP):** RAYMER	**County/Parish:** WELD	**State:** COLORADO
Legal Description: SE NE-11-10N-58W-2180FNL-368FEL			
Contractor: FRONTIER DRLG	**Rig/Platform Name/Num:** FRONTIER 6		
Job BOM: 7521			
Well Type: HORIZONTAL OIL			
Sales Person: HALAMERICA\HX41066	**Srvc Supervisor:** Joseph Scileppi		

Job

Formation Name				
Formation Depth (MD)	**Top**		**Bottom**	
Form Type			**BHST**	
Job depth MD	1855ft		**Job Depth TVD**	1855
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	1842	0	1842
Open Hole Section			13.5				0	1855	0	1855

Tools and Accessories

Type	Size in	Qty	Make	Depth ft		Type	Size in	Qty	Make
Guide Shoe	9.625			1842		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

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	Mud Flush III (Powder)	Mud Flush III	20	bbl	8.4			6	
42 gal/bbl		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

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/min	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/min	Total Mix Fluid Gal
4	Displacement	Displacement	138.9	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					

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Summary Report

Crew:

Job Start Date: 3/9/2015

Sales Order #: 0902207697
WO #: 0902207697
PO/AFE #: NA

Customer:	WHITING OIL & GAS CORP - EBUS	**Field:**	WILDCAT	**Job Type:**	CMT SURFACE CASING BOM
UWI / API Number:	05-123-38598-00	**County/Parish:**	WELD	**Service Supervisor:**	Joseph Scileppi
Well Name:	RAZOR	**State:**	COLORADO		
Well No:	11 H-0215A	**Latitude:**	40.854661		
		Longitude:	-103.824558	**Cust Rep Name:**	TYSON DENTON
		Sect / Twn / Rng:	11/10/58	**Cust Rep Phone #:**	

Remarks:

The Information Stated Herein Is Correct	Customer Representative Signature	Date
	Customer Representative Printed Name	

1.0 Real-Time Job Summary

1.1 Job Event Log

Type	Seq. No.	Activity	Graph Label	Date	Time	Source	Comb Pump Rate (bbl/min)	DH Density (ppg)	PS Pump Press (psi)	Recirc Density (ppg)	Comments
Event	1	Call Out	Call Out	3/8/2015	22:00:00	USER					
Event	2	Crew Leave Yard	Arrive At Loc	3/9/2015	02:15:00	USER					
Event	3	Arrive At Loc	Arrive At Loc	3/9/2015	02:15:00	USER					RIG WAS STILL TRIPPING DP UPON ARRIVAL
Event	4	Rig-up Lines	Rig-Up Completed	3/9/2015	07:00:00	USER					JSA W/ CREW
Event	5	Rig-Up Completed	Rig-Up Completed	3/9/2015	08:00:00	USER					
Event	6	Pre-Job Safety Meeting	Pre-Job Safety Meeting	3/9/2015	08:30:00	USER	0.00	0.01	-11.00	0.00	JSA W/ ALL INVOLVED PERSONNEL
Event	7	Start Job	Start Job	3/9/2015	08:40:02	COM5	0.00	9.02	-17.00	8.39	
Event	8	Test Lines	Test Lines	3/9/2015	08:46:08	COM5	0.00	8.34	3599.00	8.39	TESTED LINES TO 3000 PSI FOR 5 MIN, NO VISIBLE LEAKS
Event	9	Pump Spacer 1	Pump Spacer 1	3/9/2015	08:51:09	COM5	0.00	8.27	-4.00	8.31	PUMPED 20 BBLS MUD FLUSH, WITH DYE IN FIRST TEN AT 2.5 BPM AT 12 PSI
Event	10	Check Weight	Check weight	3/9/2015	09:03:38	COM5	0.00	8.28	-22.00	12.49	
Event	11	Pump Lead Cement	Pump Lead Cement	3/9/2015	09:04:42	COM5	2.40	9.17	-1.00	12.49	PUMPED 380 SKS OR 146.8 BBLS 12.5 SWIFTCEM AT 7BPM AT 193 PSI
Event	12	Check Weight	Check weight	3/9/2015	09:12:06	COM5	4.10	12.61	49.00	12.52	
Event	13	Check Weight	Check weight	3/9/2015	09:24:22	COM5	7.10	12.67	194.00	12.47	
Event	14	Pump Tail Cement	Pump Tail Cement	3/9/2015	09:34:02	COM5	5.50	13.80	129.00	14.12	PUMPED 210 SKS OR 57.5 BBLS AT 6 BPM AT 229 PSI
Event	15	Shutdown	Shutdown	3/9/2015	09:45:25	COM5	0.00	0.42	-39.00	0.19	

Event	16	Drop Top Plug	Drop Top Plug	3/9/2015	09:50:23	COM5	0.00	0.44	-51.00	7.97	PLUG PRE LOADED AND WITNESSED BY DRILLER
Event	17	Pump Displacement	Pump Displacement	3/9/2015	09:50:26	COM5	0.00	0.44	-51.00	7.73	PUMPED 138.9 BBLS OF H2O AT 8 BPM AT 356 PSI, GOT 81BBLS OF CMT BACK TO SURFACE, CALCULATED WAS 40.7 BACK ON GAUGED HOLE
Event	18	Bump Plug	Bump Plug	3/9/2015	10:25:50	COM5	0.00	8.28	1029.00	0.19	BUMPED PLUG AT 561 PSI
Event	19	Other	Other	3/9/2015	10:27:07	COM5	0.00	8.29	1029.00	0.19	CHECKED FLOATS GOT 2 BBLS BACK
Event	20	Pressure Up Well	Pressure Up Well	3/9/2015	10:31:42	COM5	0.00	8.31	1592.00	0.19	1500 PSI CASING TEST FOR 15 MIN
Event	21	End Job	End Job	3/9/2015	10:50:00	COM5	0.00	8.25	-59.00	0.19	

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M. S. D. S. RECEIPT DOCUMENT

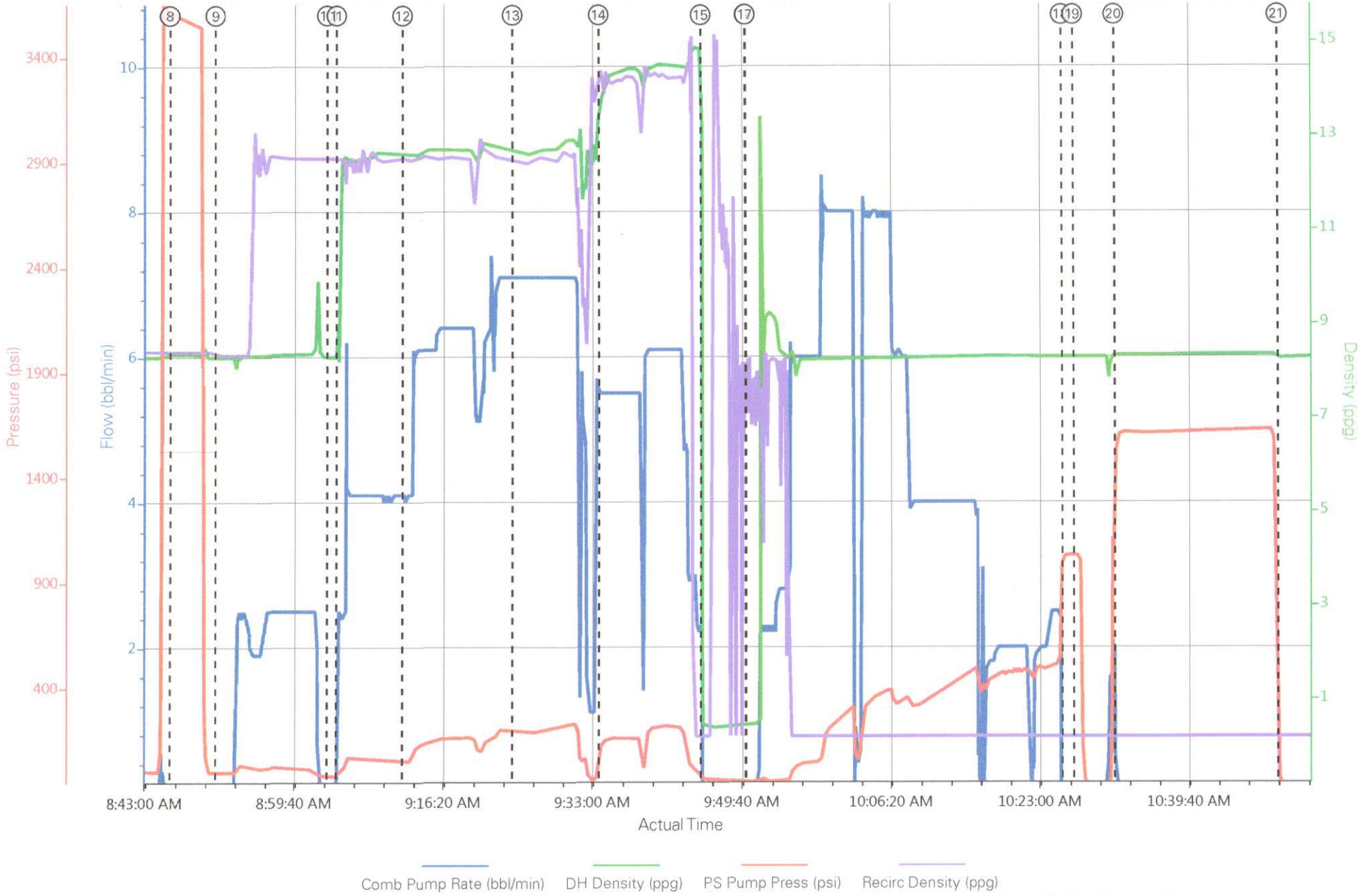
This receipt page is intended for use with Material Safety Data Sheets supplied by Halliburton Energy Services. The recipients of these data sheets should consult the OSHA Safety and Health Standards (29 CFR 1910), particularly subpart G - Occupational Health and Environmental Control, and subpart I - Personal Protective Equipment, for general guidance on control of potential Occupational Health and Safety Hazards.

This document provides the customer the instructions necessary to utilize the M. S. D. S. Safety Sheets and confirms that Halliburton Energy Services offers the Customer the communication for discussion on Chemical Safety of the provided materials.

Customer Signature

Company :	WHITING OIL & GAS CORP - EBUS
Lease & Well Name :	RAZOR
Ticket # :	0902207697
Location : (To be completed by Service Supervisor)	Fort Lupton, CO, USA(0201)

WHITING RAAZOR 11 H-0215A



① Call Out n/a;n/a;n/a;n/a
② Arrive At Loc n/a;n/a;n/a;n/a
③ Arrive At Loc n/a;n/a;n/a;n/a
④ Rig-Up Completed n/a;n/a;n/a;n/a
⑤ Rig-Up Completed n/a;n/a;n/a;n/a
⑥ Pre-Job Safety Meeting 0;0.01;-11;0
⑦ Start Job 0;9.02;-17;8.39
⑧ Test Lines 0;8.33;3599;8.39
⑨ Pump Spacer 1 0;8.27;-4;8.32
⑩ Check weight 0;8.28;-22;12.49
⑪ Pump Lead Cement 2.4
⑫ Check weight 4.1;12.6;4