



## Cementing Job Summary

## The Road to Excellence Starts with Safety

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2879987	<b>Quote #:</b>	<b>Sales Order #:</b> 8489677
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC - EBUS		<b>Customer Rep:</b> Moore, Frank	
<b>Well Name:</b> RWF	<b>Well #:</b> 343-31	<b>API/UWI #:</b> 05-045-19788	
<b>Field:</b> Rulison	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.475 deg. OR N 39 deg. 28 min. 30.749 secs.		<b>Long:</b> W 107.929 deg. OR W -108 deg. 4 min. 14.516 secs.	
<b>Contractor:</b> Nabors Industries LTD.	<b>Rig/Platform Name/Num:</b> Nabors 573		
<b>Job Purpose:</b> Cement Surface Casing			
<b>Well Type:</b> Development Well		<b>Job Type:</b> Cement Surface Casing	
<b>Sales Person:</b> KOHL, KYLE		<b>Srvs Supervisor:</b> DANIEL, EVERETT	<b>MBU ID Emp #:</b> 337325

### Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
DANIEL, EVERETT Dean	7.5	337325	JENKINS, DEMON Lashaun	7.5	457892	WEAVER, CARLTON Russell	7.5	457698
WOLFE, JON P	7.5	485217	Pollock, Gareth	7.5	498459			

### Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
10744648C	60 mile	10784080	60 mile	10804579	60 mile	10867423	60 mile
10897887	60 mile	10998508	60 mile	11583932	60 mile		

### Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
10/17/11	7.5	3						

Total is the sum of each column separately

## Job

### Job Times

Formation Name									Date	Time	Time Zone		
Formation Depth (MD)		Top			Bottom				Called Out	17 - Oct - 2011	08:45	MST	
Form Type				BHST					On Location	17 - Oct - 2011	13:30	MST	
Job depth MD		2720. m		Job Depth TVD		2720. m		Job Started			17 - Oct - 2011	17:51	MST
Water Depth				Wk Ht Above Floor		4. m		Job Completed			17 - Oct - 2011	19:12	MST
Perforation Depth (MD)		From			To				Departed Loc	17 - Oct - 2011	21:00	MST	

### Well Data

<i>Description</i>	<i>New / Used</i>	<i>Max pressure MPa</i>	<i>Size mm</i>	<i>ID mm</i>	<i>Weight kg/m</i>	<i>Thread</i>	<i>Grade</i>	<i>Top MD m</i>	<i>Bottom MD m</i>	<i>Top TVD m</i>	<i>Bottom TVD m</i>
13 1/2" Open Hole				13.5				.	2700.		
9 5/8" Surface Casing	New		9.625	9.001	32.3		H-40	.	2700.		

Sales/Rental/3<sup>rd</sup> Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG, TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		

## Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug			
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container			
Stage Tool										Centralizers			

## Miscellaneous Materials

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 kg/m3	Yield m3/sk	Mix Fluid m3/tonne	Rate m3/min	Total Mix Fluid m3/tonne
1	Water Spacer		20	bbl	8.34	.0	.0	.0	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	435	sacks	12.3	2.38	13.75		13.75
	13.75 Gal	FRESH WATER							
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160	sacks	12.8	2.11	11.75		11.75
	11.75 Gal	FRESH WATER							
4	Displacement Fluid		210.4	bbl	8.34	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	210.4	Shut In: Instant		Lost Returns	0	Cement Slurry	244.5	Pad	
Top Of Cement	SURFACE	5 Min		Cement Returns	20	Actual Displacement	210.4	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating	6	Mixing	8	Displacement	10	Avg. Job	8		
Cement Left In Pipe	Amount	42.13ft	Reason	Shoe Joint					
Frac Ring # 1 @	ID	Frac ring # 2 @	ID	Frac Ring # 3 @	ID	Frac Ring # 4 @	ID		
The Information Stated Herein Is Correct				Customer Representative Signature					



*The Road to Excellence Starts with Safety*

Sold To #: 300721	Ship To #: 2879987	Quote #:	Sales Order #: 8489677
Customer: WILLIAMS PRODUCTION RMT INC - EBUS	Customer Rep: Moore, Frank		
Well Name: RWF	Well #: 343-31	API/UWI #: 05-045-19788	
Field: Rulison	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Legal Description:			
Lat: N 39.475 deg. OR N 39 deg. 28 min. 30.749 secs.		Long: W 107.929 deg. OR W -108 deg. 4 min. 14.516 secs.	
Contractor: Nabors Industries LTD.	Rig/Platform Name/Num: Nabors 573		
Job Purpose: Cement Surface Casing	Ticket Amount:		
Well Type: Development Well	Job Type: Cement Surface Casing		
Sales Person: KOHL, KYLE	Srvc Supervisor: DANIEL, EVERETT	MBU ID Emp #: 337325	

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Call Out	10/17/2011 09:00							
Depart Yard Safety Meeting	10/17/2011 12:15							
Depart from Service Center or Other Site	10/17/2011 12:30							Checked out HES pump (Elite 6), Two 660s
Arrive at Location from Service Center	10/17/2011 13:30							Arrived 1 hr. early. Did not start charging time untill 1430
Assessment Of Location Safety Meeting	10/17/2011 13:35							
Consult with Co. Rep.	10/17/2011 13:40							Verified calculations and materials on location including H2O and Cement totals
Safety Meeting - Pre Rig-Up	10/17/2011 16:45							Discussed job procedures and safety issues
Rig-Up Equipment	10/17/2011 17:00							
Rig-Up Completed	10/17/2011 17:30							
Safety Meeting - Pre Job	10/17/2011 17:45							Discussed job procedures and safety issues
Start Job	10/17/2011 17:51							
Prime Pumps	10/17/2011 17:51		2	2			155.0	Fresh Water
Test Lines	10/17/2011 17:53		0.5	0.1			3200.0	Fresh Water
Pump Spacer 1	10/17/2011 17:57		6	20			285.0	Fresh Water
Pump Lead Cement	10/17/2011 18:06		8	184.4			440.0	435 sks of VersaCem @ 12.3# - 2.38 yield - 13.75 H2O requirement

Sold To # : 300721

Ship To # :2879987

Quote # :

Sales Order # :

8489677

SUMMIT Version: 7.2.27

Monday, October 17, 2011 08:52:00

Activity Description	Date/Time	Cht #	Rate m3/min	Volume m3		Pressure MPa		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	10/17/2011 18:28		8	60.1			360.0	160 sks of VersaCem @ 12.8# - 2.11 yield - 11.75 H2O requirement
Shutdown	10/17/2011 18:35							
Drop Top Plug	10/17/2011 18:35							
Pump Displacement	10/17/2011 18:41		10	210.4			865.0	Fresh Water
Slow Rate	10/17/2011 19:06		2	200			646.0	Slowed to 2 bpm
Bump Plug	10/17/2011 19:08		2	210.4			1135.0	Bumped Plug @ calculated displacement and 500 psi over
Check Floats	10/17/2011 19:11							Floats Held
End Job	10/17/2011 19:12							
Safety Meeting - Pre Rig-Down	10/17/2011 19:15							Discussed job procedures and safety issues
Rig-Down Equipment	10/17/2011 19:30							
Rig-Down Completed	10/17/2011 20:00							
Safety Meeting - Departing Location	10/17/2011 20:30							
Depart Location for Service Center or Other Site	10/17/2011 21:00							

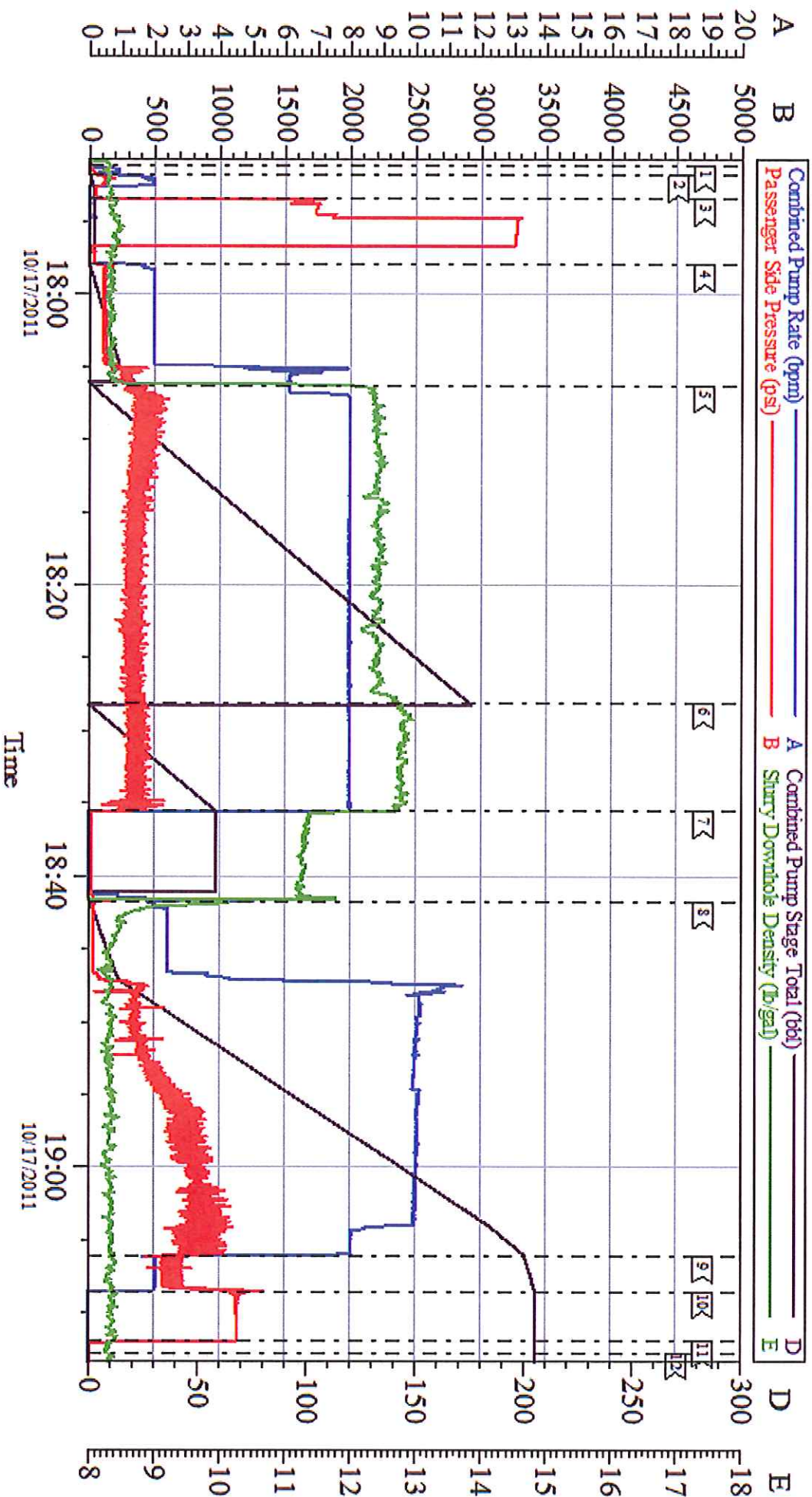
Total Depth = 2720, Total Casing = 2715, Shoe Joint = 42.13, Mud Weight = 9.6# . Casing remained stationary throughout job and was chained down. 20 bbls of cement returned to surface. 418 bbls of H2O were used for the job and 0 bbls were used for clean up (after the job) The plug landed at calculated displacement and the floats held.

Thank you for using Grand Junction Halliburton Dean Daniel & Crew



# WILLIAMS

## Surface



### Local Event Log

1	Start Job	17:51:07	2	Prime Lines	17:51:50	3	Test Lines	17:53:27
4	Pump H2O Spacer	17:57:59	5	Pump Lead Cement	18:06:18	6	Pump Tail Cement	18:28:02
7	Start Down/Drop Top Plug	18:55:33	8	Pump H2O Displacement	18:41:47	9	Show Rate	19:06:06
10	Bump Plug	19:08:32	11	Check Floats	19:11:55	12	End Job	19:12:45

Customer: Halliburton  
 Well Description: RWF-343-31  
 Company Rep: Frank Moore

Job Date: 17-Oct-2011  
 Job Type: SURFACE  
 Cement Supervisor: Dean Daniel

Sales Order #: 8489677  
 ADC Used: YES  
 Elite #/Operator: 6/Demon Jenkins