

**HALLIBURTON**

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**WILLIAMS PRODUCTION RMT INC EBUSINE**

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**RWF 543-4  
RULISON  
Garfield County , Colorado**

**Cement Surface Casing**  
27-Jun-2009

**Post Job Report**

*The Road to Excellence Starts with Safety*

<b>Sold To #:</b> 300721	<b>Ship To #:</b> 2731614	<b>Quote #:</b>	<b>Sales Order #:</b> 6737402
<b>Customer:</b> WILLIAMS PRODUCTION RMT INC EBUSINE		<b>Customer Rep:</b> Hartl, Al	
<b>Well Name:</b> RWF		<b>Well #:</b> 543-4	<b>API/UWI #:</b> 05-045-16324
<b>Field:</b> RULISON	<b>City (SAP):</b> RIFLE	<b>County/Parish:</b> Garfield	<b>State:</b> Colorado
<b>Lat:</b> N 39.462 deg. OR N 39 deg. 27 min. 42.534 secs.		<b>Long:</b> W 107.89 deg. OR W -108 deg. 6 min. 35.046 secs.	
<b>Contractor:</b> H&P 280		<b>Rig/Platform Name/Num:</b> H&P 280	
<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>Srvc Supervisor:</b> SCOTT, DALLAS	<b>MBU ID Emp #:</b> 334750

**Job Personnel**

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
BLAKE, TIMOTHY Kenn	7.5	459313	LANE, R Michael	7.5	445002	LEIST, JAMES R	7.5	362787
OLDS, RYAN John	7.5	418018	SCOTT, DALLAS D	7.5	334750			

**Equipment**

HES Unit #	Distance-1 way						
10296152C	60 mile	10784064	60 mile	10897797	60 mile	10951250	60 mile
11006314	60 mile	6345	60 mile				

**Job Hours**

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
06/27/09	7.5	1.5						

**TOTAL** *Total is the sum of each column separately*

**Job**

**Job Times**

Formation Name	Formation Depth (MD)	Top	Bottom	Called Out	Date	Time	Time Zone
				On Location	27 - Jun - 2009	00:30	MST
				Job Started	27 - Jun - 2009	04:30	MST
				Job Completed	27 - Jun - 2009	08:53	MST
				Job Completed	27 - Jun - 2009	10:18	MST
				Departed Loc	27 - Jun - 2009	12:00	MST

**Well Data**

Description	New / Used	Max pressure psig	Size in	ID in	Weight lbm/ft	Thread	Grade	Top MD ft	Bottom MD ft	Top TVD ft	Bottom TVD ft
Open Hole				13.5				.	2924.	.	2924.
Surface Casing	New		9.625	9.001	32.3			.	2904.	.	2904.

**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		
ADC (AUTO DENSITY CTRL) SYS, /JOB, ZI	1	JOB		
PORT. DAS W/CEMWIN; ACQUIRE W/HES, ZI	1	JOB		

**Tools and Accessories**

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer					Top Plug	9 5/8"	1	
Float Shoe					Bridge Plug					Bottom Plug			
Float Collar					Retainer					SSR plug set			
Insert Float										Plug Container	9 5/8"	1	
Stage Tool										Centralizers			

**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 <sup>3</sup> /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk
1	Water Spacer			bbl	8.4	.0	.0	.0	
2	VersaCem Lead Cement	VERSACEM (TM) SYSTEM (452010)	483	sacks	12.3	2.38	13.75		13.75
3	VersaCem Tail Cement	VERSACEM (TM) SYSTEM (452010)	160	sacks	12.8	2.11	11.76		11.76
	0.333 Gal	FRESH WATER							
4	Displacement Fluid		225	bbl	8.4	.0	.0	.0	
Calculated Values		Pressures		Volumes					
Displacement	225.6	Shut In: Instant		Lost Returns	No	Cement Slurry	264.86	Pad	
Top Of Cement	Surface	5 Min		Cement Returns	80	Actual Displacement	225	Treatment	
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		Total Job	
Rates									
Circulating	Rig	Mixing	7	Displacement	10	Avg. Job	7.5		
Cement Left In Pipe	Amount	37.48 ft	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					

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Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	06/27/2009 00:30							TP 2904', SJ 37.48', Casing 9 5/8" 32.3# H-40, TD 2924', Hole 13 1/2", MW 10.4#
Depart Yard Safety Meeting	06/27/2009 02:30							Safety meeting including entire HES crew; Ryan Olds was assigned safety observer
Arrive At Loc	06/27/2009 04:30							Rig running casing aprox. 1 full rack remaining
Assessment Of Location Safety Meeting	06/27/2009 05:00							Location assessment including entire HES crew
Rig-Up Equipment	06/27/2009 05:30							1 Pump (Elite 9), 1 Bulk (660), 1 Silo (1200), 1 Hard line from pump to rig floor, 1 Hard line from pump to pit, 1 H2O line to upright, 1 H2O line to day tank
Circulate Well	06/27/2009 08:00							Rig circulated 1 hrs prior to job; good circulation throughout job
Pre-Job Safety Meeting	06/27/2009 08:45							Safety meeting including everyone on location
Start Job	06/27/2009 08:53							Fill lines; No pipe movement during job; Rig lowered top-drive onto head to prevent lift
Test Lines	06/27/2009 08:55						3000.0	PSI test good, No leaks
Pump Spacer 1	06/27/2009 08:58		2	20			70.0	Freshwater spacer; 4x4 @ 110, BP @ 8
Pump Lead Cement	06/27/2009 09:07		7	204.7 3			460.0	483 SKS, 2.38 FT3/SK, 13.75 GAL/SK; BP @ 10

Activity Description	Date/Time	Cht #	Rate bbl/min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Pump Tail Cement	06/27/2009 09:38		7	60.13			338.0	160 SKS, 2.11 FT3/SK, 11.75 GAL/SK, BP @ 11
Shutdown	06/27/2009 09:47							
Drop Top Plug	06/27/2009 09:48							Plug left container
Pump Displacement	06/27/2009 09:49		10	215			445.0	Freshwater displacement
Other	06/27/2009 10:14		4	10			640.0	Slow rate last 10 BBLs of displacement
Bump Plug	06/27/2009 10:16			225			700.0	Took PSI to 1300 PSI
Check Floats	06/27/2009 10:18							Float held
End Job	06/27/2009 10:18							Good circulation throughout job, 80 BBLs of cement to surface
Pre-Rig Down Safety Meeting	06/27/2009 10:20							Safety meeting including entire HES crew
Rig-Down Equipment	06/27/2009 10:30							
Safety Meeting - Departing Location	06/27/2009 12:00							Safety meeting including entire HES crew