

**WILLIAMS PRODUCTION RMT INC EBUSINE
DO NOT MAIL - PO BOX 21218
TULSA, Oklahoma**

RWF
RWF 432-35

H&P 280/

Post Job Summary
Cement Surface Casing

Prepared for: WC Willson
Date Prepared: July 13, 2010
Version: 1

Service Supervisor: ARNOLD, EDWARD

Submitted by:

HALLIBURTON

The Road to Excellence Starts with Safety

Sold To #: 300721	Ship To #: 2791810	Quote #:	Sales Order #: 7462105
Customer: WILLIAMS PRODUCTION RMT INC EBUSINE		Customer Rep: Wilson, W.C	
Well Name: RWF	Well #: 432-35	API/UWI #: 05-045-18752	
Field: RULISON	City (SAP): RIFLE	County/Parish: Garfield	State: Colorado
Lat: N 39.487 deg. OR N 39 deg. 29 min. 13.412 secs.		Long: W 107.853 deg. OR W -108 deg. 8 min. 48.332 secs.	
Contractor: H&P 280	Rig/Platform Name/Num: H&P 280		
Job Purpose: Cement Surface Casing			
Well Type: Development Well		Job Type: Cement Surface Casing	
Sales Person: KOHL, KYLE	Srv Supervisor: ARNOLD, EDWARD	MBU ID Emp #: 439784	

Job Personnel

HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #	HES Emp Name	Exp Hrs	Emp #
ARNOLD, EDWARD John	8.5	439784	CARTER, ERIC Earl	8.5	345598	HAYES, JESSE Doug	8.5	403601

Equipment

HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way	HES Unit #	Distance-1 way
	60 mile	10867425	60 mile	10897797	60 mile	10897891	60 mile
10951251	60 mile						

Job Hours

Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours	Date	On Location Hours	Operating Hours
7/13/201-0	8.5	2						
TOTAL	Total is the sum of each column separately							

Job

Formation Name	Top	Bottom	Called Out	Date	Time	Time Zone
Formation Depth (MD)			On Location	13 - Jul - 2010	05:30	MST
Form Type	BHST		Job Started	13 - Jul - 2010	11:22	MST
Job depth MD	1170. ft	Job Depth TVD	Job Completed	13 - Jul - 2010	12:13	MST
Water Depth		Wk Ht Above Floor	Departed Loc	13 - Jul - 2010	14:00	MST
Perforation Depth (MD)	From	To				

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					1170.		
SURFACE PIPE	Unknown		9.625	9.001	32.3		J-55		1126.2		

Sales/Rental/3rd Party (HES)

Description	Qty	Qty uom	Depth	Supplier
PLUG,CMTG,TOP,9 5/8,HWE,8.16 MIN/9.06 MA	1	EA		
R/A DENSOMETER W/CHART RECORDER,/JOB,ZI	1	JOB		
PORT. DAS W/CEMWIN;ACQUIRE W/HES, ZI	1	JOB		
ADC (AUTO DENSITY CTRL) SYS, /JOB,ZI	1	JOB		

Tools and Accessories

Type	Size	Qty	Make	Depth	Type	Size	Qty	Make
Guide Shoe					Packer			
Float Shoe					Bridge Plug			
Float Collar					Retainer			
Insert Float								
Stage Tool								
					Top Plug	9.625	1	HES
					Bottom Plug			
					SSR plug set			
					Plug Container	9.625	1	HES
					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 ³ /sk	Mix Fluid Gal/sk	Rate bbl/min	Total Mix Fluid Gal/sk	
1	Water Spacer		20.00	bbl	8.4	.0	.0	6.0		
2	Lead Cement	VERSACEM (TM) SYSTEM (452010)	160.0	sacks	12.3	2.38	13.75	8.0		
3	Tail Cement	VERSACEM (TM) SYSTEM (452010)	170.0	sacks	12.8	2.11	11.75	8.0		
4	Displacement Fluid		87.00	bbl	8.4	.0	.0	10.0		
Calculated Values			Pressures			Volumes				
Displacement	87.7	Shut In: Instant		Lost Returns	0	Cement Slurry	131.6	Pad		
Top Of Cement	Surface	5 Min		Cement Returns	20	Actual Displacement	87.7	Treatment		
Frac Gradient		15 Min		Spacers	20	Load and Breakdown		TOTAL JOB	239.3	
Rates										
Circulating	Rig	Mixing	8	Displacement	10	Avg. Job	9			
Cement Left In Pipe	Amount	41.1 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						

Cementing Job Log

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Well Type: Development Well	Job Type: Cement Surface Casing		
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Activity Description	Date/Time	Cht #	Rate bbl/ min	Volume bbl		Pressure psig		Comments
				Stage	Total	Tubing	Casing	
Call Out	07/13/2010 02:00							
Pre-Convoy Safety Meeting	07/13/2010 03:50							Including entire cement crew
Arrive At Loc	07/13/2010 05:30							Rig still pulling pipe. Rig circulated for 1 Hr prior top job. From 1020 to 1120.
Assessment Of Location Safety Meeting	07/13/2010 05:40							Water Test: Ph 6.5; KCl 0; Fe 0; Chlorides 0; So4 <200; Calcium 120; Temp 76 deg; TDS 120.
Pre-Rig Up Safety Meeting	07/13/2010 05:45							Including entire cement crew
Rig-Up Equipment	07/13/2010 06:00							1 Elite #; 1 660 bulk truck; 1 hard line from pump to floor; 1 line to upright; 1 line to day tank. 9.625" Compact Head.
Rig-Up Completed	07/13/2010 06:30							
Pre-Job Safety Meeting	07/13/2010 10:45							Including everyone on location
Start Job	07/13/2010 11:23							TD 1170' ; TP 1126.2' + 30' landing joint 1 joint of 36# casing 42.62'; SJ 41.14; OH 13.5; CASING 9.625 32.3# J-55; MUD 10.8 ppg PV 31 YP 30 Temp 119.
Other	07/13/2010 11:24		1	2			20.0	Fill lines with fresh water.
Pressure Test	07/13/2010 11:27						3000.0	PSI test good, no leaks.
Pump Spacer 1	07/13/2010 11:31		8	20			229.0	20 BBL fresh water spacer.

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SUMMIT Version: 7.20.130

Tuesday, July 13, 2010 12:27:00

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				Stage	Total	Tubing	Casing	
Pump Lead Cement	07/13/2010 11:39		8	67.8			430.0	160 SKs Lead cement, 12.3 ppg; 2.38 cf3; 13.75 gal/sk.
Pump Tail Cement	07/13/2010 11:48		8	63.8			471.0	170 SKs Tail cement, 12.8 ppg; 2.11 cf3; 11.75 gal/sk.
Shutdown	07/13/2010 11:54							
Drop Plug	07/13/2010 11:55							Plug left container.
Pump Displacement	07/13/2010 11:56		10	77.7			600.0	Fresh Water Displacement. Got Cement to surface at 67 BBLs of displacement gone. 20 BBL Cement back to surface. Good circulation throughout job.
Slow Rate	07/13/2010 12:04		4	10	87.7		290.0	Slow rate last ten BBLs.
Bump Plug	07/13/2010 12:09						780.0	Bumped plug took 500 psi over.
Check Floats	07/13/2010 12:11							Floats held. 1.5 BBL back.
End Job	07/13/2010 12:13							
Pre-Rig Down Safety Meeting	07/13/2010 12:20							Including entire cement crew.
Rig-Down Equipment	07/13/2010 12:30							
Rig-Down Completed	07/13/2010 13:30							
Pre-Convoy Safety Meeting	07/13/2010 13:45							Including entire cement crew.
Depart Location for Service Center or Other Site	07/13/2010 14:00							
Other	07/13/2010 14:00							Thank You for using Halliburton. Ed Arnold and crew.